Appendix J
Hydraulics Recommendation Report

Hydraulics Recommendation Report
NV FLAP 500(1)
Red Rock Trail and Intersections

Prepared for:
Federal Highway Administration
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Acronyms and Abreviations

Acronym	Definition
ADT	Average Daily Traffic
AEP	Annual Exceedance Probability
BFE	Base Flood Elevations
BMP	Best Management Practices
CCRFCD	Clark County Regional Flood Control District
CFLHD	Central Federal Lands Highway Division
CLOMR	Conditional Letter of Map Revision
CMP	Corrugated Metal Pipe
FEMA	Federal Emergency Management Agency
FES	Flared End Section
FIRM	Flood Insurance Rate Map
GIS	Geographic Information System
HCDDM	Hydraulic Criteria and Drainage Design Manual (CCRFCD)
HDS	Hydraulic Design Series
HEC	Hydraulic Engineering Circular
HW/D	Headwater Depth per Diameter
LOMR	Letter of Map Revision
MP	Milepost
MPU	Master Plan Update (2018 Las Vegas Valley Flood Control)
MSC	Map Service Center
NDOT	Nevada Department of Transportation
NFHL	National Flood Hazard Layer
PDDM	Project Development and Design Manual
RCB	Reinforced Concrete Box
RCP	Reinforced Concrete Pipe
RRCNCA	Red Rock Canyon Natural Conservation Area
SFHA	Special Flood Hazard Area
SR 159	State Route 159
TIN	Triangulated Irregular Network
USACE	United States Army Corps of Engineers
WSE	Water Surface Elevation

1. Introduction and Purpose

This Hydraulics Recommendation Report describes the hydrologic and hydraulic design and drainage improvement recommendations for the Red Rock Trail project. The Red Rock Trail is an approximate 5-mile shared use path that offers access and connection for pedestrians and bicyclists from the Summerlin residential community in Las Vegas to the entrance of the Red Rock Canyon National Conservation Area (RRCNCA).

The purpose of the project is to improve safety, increase access, and improve circulation for non-motorized users. Two trail alignments are being considered connecting into State Route 159 (SR 159) at Sky Vista Drive in Summerlin (a residential community of Las Vegas, Nevada). The Main alignment will begin along SR 159 between the Red Rock Wash and SR 159 whereas an alternate alignment will begin along the residential property paralleling the existing Red Rock Wash to the north. Refer to Figure 1 for a Vicinity Map for a figure showing both alignments. Ultimately, this project will only construct one alignment which will be selected prior to the next phase of design.

In addition to the path improvements, the project will extend existing deceleration lanes from SR 159 to Calico Basin Road and to Scenic Loop Drive. The "Welcome to Red Rock Canyon" sign is proposed to be relocated to where there is better sight distance and improved access off the roadway. At the relocated sign area, a parking lot is proposed to accommodate vehicles pulling off to take photos. This parking area, or an additional parking area is also proposed to potentially serve trail users.

1.1 Project Location and Description

The Red Rock Trail is located west of Las Vegas, Nevada primarily along SR 159, mostly within the RRCNCA beginning approximately 4 miles west of Las Vegas and connecting to the city limits in the Summerlin community. Refer to Figure 1 for a Vicinity Map. The project will be constructing a multiuse 12-foot paved trail. There are two alternative horizontal alignments being considered at this design level whereas only one will be constructed. These two alignments are discussed in the following subsections.

1.1.1 Main Trail Alignment

The main trail alignment will connect Sky Vista Drive and SR 159 (Charleston Boulevard) in the Summerlin community near the eastern limit of the project and cross the Red Rock Wash with a bridge structure that is similar in size to the adjacent SR 159 Highway bridge. The main trail alignment will parallel the SR 159 Highway for approximately one mile before turning north and crossing the Red Rock Wash again. Another new bridge will be required here spanning most of the flood zone associated with the Red Rock Wash at this location. West of the wash crossing, the trail continues through the U.S. Bureau of Land Management property to the terminus of the project at the RRCNCA.

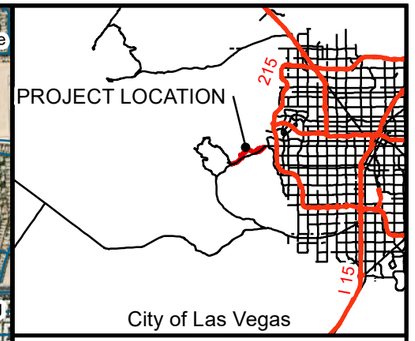
1.1.2 Alternative Trail Alignment

The alternative trail alignment starts at the same point in Summerlin but does not cross the main Red Rock Wash. In lieu of crossing the wash, the trail parallels the Summerlin residential property to the north and crosses several alluvial tributaries before tying into the main trail alignment farther west on the north side of the wash. Several large drainage structures would be required to cross some of these tributaries. This alternative will include a combination of pipes, box culverts, and low water crossings.

1.2 Previous Studies

The Red Rock Wash has been previously analyzed as recently as the 2018 Clark County Regional Flood Control District (CCRFCD) Las Vegas Valley Flood Control Master Plan Update (MPU). This study provides a detailed hydrologic analysis for the Red Rock Wash tributary to the bridge crossing at SR 159. This study provides 100-year flow rates, soils information, land use, time of concentration, lag time, and complete HEC-1 models for the area. This study is used as the base information for the hydrologic analysis for this project. Relative MPU maps and figures have been added to Appendix A.2.





N

LEGEND:

Streets

Red Rock Trail

Red Rock Trail

FEMA FLoodzone

0.2 PCT

Zone A

0 2,000 4,000

Scale In Feet

FHWA - CFLHD	*Figure 1* *Vicinity Map*
Hydraulics Recommendation Report	
PN: WXXY4000	DATE: 08/31/20
CREATED BY: DB	Jacobs
REVIEWED BY: DB	

H:\CFL_Red_Rock_Canyon_Path\345 Hydraulic\4 Design\GIS\Vicinity Map.mxd

1.3 Field Survey

A topographical field survey was completed by Jacobs in the fall of 2019 that includes aerial mapping and supplemental ground-based survey shots. Additional survey will be required prior to final design to determine existing bridge chord elevations at SR 159 as well as capturing any existing drainage improvements.

1.4 Floodplain Investigation

The Red Rock Wash is an alluvial dry wash which parallels SR 159 within the project area (also known as Charleston Boulevard within city limits). The wash generally flows west to east and terminates at a large CCRFCD detention facility just southwest of SR 159 and Sky Vista Drive. The wash varies in width from approximately 200 feet to 1,300 feet and consists of multiple braided channels. This can be seen on the floodplain maps in Appendix C.3.

Effective Flood Insurance Rate Maps (FIRM) were obtained from Federal Emergency Management Agency (FEMA) Map Service Center (MSC). The following two FIRM panels include the project area. See Appendix A.1.

- Clark County, Nevada and Incorporated Areas, Map Number 32003C2125E, panel 2125E, revised September 27, 2002.
- Clark County, Nevada and Incorporated Areas, Map Number 32003C2150E, panel 2150E, revised September 27, 2002.

Both map panels list the Red Rock Wash as "Zone A", which is an approximate base floodplain that corresponds to the 100-year flood flow, also known as the 1 percent Annual Exceedance Probability (AEP) event. Zone A floodplains do not involve a detailed study or include Base Flood Elevations (BFE).

Both National Flood Hazard Layer (NFHL) in Google Earth and Geographic Information System (GIS) data for the existing floodplain were available and used for this effort.

Mr. Layne Weber, Principle Engineer for Clark County Public Works Development Review and FEMA Floodplain Coordinator, was contacted in early May 2020. Jacobs provided Mr. Weber descriptions of the project, maps and exhibits of the proposed project options, existing FEMA floodplain maps of the area, a list of stakeholders and agencies involved in funding, construction, and maintenance. Mr. Weber submitted a few questions and comments, including whether or not this project was a private development or not, a discussion of local design criteria (e.g., bridge freeboard), potential fees, and impacts to the Special Flood Hazard Area (SFHA) and the potential need for a Conditional Letter of Map Revision (CLOMR). It is noted that a CLOMR is not currently included in the scope of work since no regulatory floodway exists in this area and it is currently assumed that impacts to the SFHA will be limited to increases of one foot or less per the national FEMA standard. Mr. Weber also confirmed that that the County does not have any additional requirements over FEMA regulations for water surface elevations increases.

1.5 Wetlands Investigation

An initial site investigation conducted in the fall of 2019 with Jacobs and CFLHD staff did not indicate any wetlands that will require mitigation for the proposed improvements as the site is mostly comprised of dry and arid rangeland. Confirmation and delineation of any potential wetlands along with any necessary mitigation will occur in the future as a part of the environmental permitting documents. The Aquatic Resources Delineation was complete in May of 2020 with results pending at the time of this report. Fish passage and stream restoration is not required since all drainageways convey ephemeral flows. There are

many ephemeral washes that are located within the project limits. Water Quality will be mitigated during and after construction using temporary and permanent best management practices (BMP's). Further discussion on erosion control can be found in Section 6 of this report.

2. Drainage Design Criteria and Methodology

2.1 Drainage Design Criteria

The drainage design for the project will be in accordance with the Federal Lands' Project Development and Design Manual (PDDM) Chapter 7. Additional criteria set forth in the CCRFCD Hydrologic Criteria and Drainage Design Manual (HCDDM) have been used for the design of this project which meets or exceeds the standards identified in the PDDM.

Table 1. Roadway Hydraulics Design Criteria

Roadway Hydraulics Design Values	PDDM Standard	Used on This Project
Culvert Design Flood	25-year flood	50-year flood
Roadside Ditch Design Flood	10-year flood	10-year flood
Pavement Drainage Design Flood	10-year flood	10-year flood

Table 2. River Hydraulics Design Criteria

Roadway Hydraulics Design Values	PDDM Standard	Used on This Project
Floodplain Encroachment Design Flood	100-year flood	100-year flood
Bridge Design Flood	50-year flood	100-year flood
Longitudinal Embankment Design Flood	50-year flood	100-year flood
Retaining Wall Design Flood	100-year flood	100-year flood
Low Water Crossings	25-year flood	25-year flood

2.2 Hydrologic Analysis

The Rational Method, using the procedures described in HDS-2, may be used in future phases of design to calculate the flows at culverts that have tributary basins less than 200 acres. Flowrates will be calculated for the 10, 50 (design), and 100-year (check) storm events.

For basins larger 200 acres, the NRCS Method will be utilized using the U.S. Army Corps of Engineers HEC-1 computer software following procedures and criteria set forth in the CCRFCD HCDDM. The HEC-1 program calculates a hydrograph for each subbasin and routes it as directed by the user. Further discussion of the input parameters can be found in Section 3 of this report. For this Hydraulic Recommendation Report, hydrologic computations were completed for the 2, 10, 50, 100, 200, and 500-year storm events for both Red Rock Wash trail crossings. Computations have been completed for the 10, 50, and 100-year storm events for the two box culvert crossings along the alternative alignment and are included in this recommendation report. Input parameters needed for the HEC-1 models have been included in Appendix B.2.

The HEC-1 computer software was selected due to the acceptance and preference with local jurisdictions, CCRFCD, and Nevada Department of Transportation (NDOT).

2.3 Culvert Hydraulics

Hydraulic analyses completed for this recommendation report include computations for the two box culvert crossing locations along the alternative alignment and the two bridge locations along the main alignment. The two box culvert locations utilize FHWA HY8 computer software utilizing HDS-5 procedures utilizing the hydrology discussed in Section 2.2. Future hydraulic analysis for culverts also utilize HY-8, whereas headwater to depth ratios will be limited to 1.5 for culverts 48-inches and smaller and 1.2 for culverts larger than 48 inches. Minimum pipe cover will be 12-inches with the minimum culvert diameter being 24-inches.

2.4 Bridge and Floodplain Analysis

To assess the floodplain impacts of the main alignment trail crossings of the wash, a one-dimensional steady-state hydraulic model was developed using version 2.7.0 of CivilGEO's GeoHECRAS data wrapper combining many GIS functions with ability to run hydraulic models. This program runs the hydraulic model using the latest version (5.0.7) of the Hydrologic Engineering Center – River Analysis System (HEC-RAS), developed by the United States Army Corps of Engineers (USACE). For FEMA floodplain purposes, a sub-critical model regime was used. Peak discharge rates developed from the approach and HEC-1 modeling efforts described in Sections 2.2 and Section 3.

As is customary, the model's river centerline was defined along the most apparent thalwag path. As shown in Appendix C.3, the cross-sectional cut lines were drawn perpendicular to the likely high flow direction and were established about every 200 feet and at other changes in river geometry width, vertical and horizontal bends, and at apparent changes in roughness or vegetation. The model cross-sections extend from well upstream of the study area to the CCRFCD detention facility at the downstream end.

2.5 Roadside Ditches

Roadside ditches will be analyzed with the next design submittal and be submitted with the Preliminary Hydraulic Report. Ditches will be required in cut sections of the trail and along SR 159 if the main alignment is chosen. Ditch capacity calculations will be determined, as needed, using Manning's equation and shear stress calculations will be completed to determine appropriate ditch lining. Capacity and lining calculations will be determined from the 10-year flood as described in Table 1. Site constraints will determine foreslope and backslopes of the ditch. Slopes will be limited to no steeper than 1V:2H. Preferred slopes will be 1:4 to reduce use of rolled erosion control product.

2.6 Pavement Drainage

All pavement drainage will sheet flow down gradient off the trail as there is no curb and gutter being proposed. The proposed parking lots will require an onsite hydrologic analysis during the next design phases to determine flowrates and discharge locations. The Rational Method will be used to calculate these flowrates and it is not anticipated to require any onsite storm drain facilities. Runoff will be determined from the 10-year flood as described in Table 1.

2.7 Low Water Crossings

This project will cross numerous alluvial tributaries to the Red Rock Wash. Concrete low water crossings will be proposed at locations where the vertical alignment of the trail allows. Since the vertical gradient is constrained to design criteria for slope, culverts will be used where low water crossings cannot be utilized. Low water crossings will feature a reinforced concrete slab and cutoff perimeter wall to protect the surface

and provide scour protection. The design flowrate that will be conveyed over the low water crossings will be the 25-year event as is customary to PDDM standards.

2.8 Erosion Control

Temporary BMP's, as shown in the standard Central Federal Lands Highway Division (CFLHD) details, will be used for control of erosion during construction. This will include rolled erosion control product, inlet protection, silt fence, fiber rolls, and other BMP's as needed. Seeding and mulching will be applied to disturbed areas, however, given the lack of existing vegetation, desert climate, and poor soil condition, application rate and method will need to be discussed with the environmental team and CFLHD.

Machine placed riprap aprons will be used as a permanent erosion control measure at new culvert outfalls and for ditch lining as required. Seeding/mulching or riprap will be used as permanent erosion control along disturbed embankments. Riprap protection will be designed using the procedures outlined in the CCRFCD HCDDM Chapter 704.4.1.

2.9 Miscellaneous

The project is located within a mapped FEMA Floodplain, Zone A. It is not anticipated at this time that a Conditional Letter of Map Revision (CLOMR) or a Letter of Map Revision (LOMR) will be required for this project. Coordination with the local floodplain manager confirmed there are no additional floodplain requirements.

Fish passage will not be accommodated since drainageways in the vicinity of the trail are ephemeral. Increases in impervious surfaces due to the addition of the trail will have a minimal increase in peak discharges; however, this increase in storm flow will be negligible, and thus, will not need to be mitigated through detention or retention.

3. Hydrologic Analysis

3.1 Major Basin Analysis

Three major basins have been identified and analyzed for the 30% level of design for this project: the Red Rock Wash basin, which contributes runoff to two proposed bridges on the main trail alignment, and two unnamed basins tributary to proposed box culverts crossing the alternative trail alignment. Hydrologic calculations for these major basins were performed using the HEC-1 computer program adopted by CCRFCD and NDOT as the preferred hydrologic modeling software for Clark County. Model input parameters will be included in the Preliminary and Final Hydraulics Reports. See the subbasin maps in Appendix B.1. Basins larger than 200 acres will be considered major basins for this project and will be modeled in HEC-1. Future basin delineation will be required in future design phases of this project.

3.1.1 HEC-1 Results

The results from the HEC-1 models are summarized in Table 3 and Table 4 showing calculated flow rates for each basin and combination point. Full HEC-1 output reports can be found in Appendix B.3. An electronic version of the HEC-1 output files will be supplied with both the full and condensed versions of the report with the condensed version excluding the large amount of output pages.

Table 3. HEC-1 Basin Hydrologic Summary

Basin	Area (square mile)	2-Year (cfs)	10-Year (cfs)	50-Year (cfs)	100-Year (cfs)	200-Year (cfs)	500-Year (cfs)
R3A	0.19	139	119	209	286	337	408
RD1	0.43	89	310	591	687	806	961
RD2	0.47	164	446	800	904	1042	1219
RD3	0.33	100	287	532	599	696	817
RD4	0.40	71	278	546	633	750	900
RD5	0.37	70	262	529	609	717	857
RD6	0.25	74	219	405	457	531	625
104A	3.39	65	587	1,404	1,709	2,105	2,613
RR1	4.22	675	1,730	4,123	5,079	5,824	6,946
RR10	8.77	432	1,970	3,730	4,459	5,315	6,398
RR12A	5.82	568	1,901	3,797	4,370	5,157	5,929
RR14A	4.60	527	1,634	3,108	3,737	3,940	4,710
RR2	3.55	534	1,813	3,234	3,911	4,532	6,398
RR3	14.98	941	3,632	6,652	8,081	9,434	11,277
RR5	7.13	954	3,054	5,702	6,746	7,796	9,246
SUB-A	4.57	None	1,252	2,311	2,901	None	None
SUB-B	0.68	None	270	563	659	None	None

Table 4. HEC-1 Combination Point Hydrologic Summary

CP	Area (square mile)	2-Year (cfs)	10-Year (cfs)	50-Year (cfs)	100-Year (cfs)	200-Year (cfs)	500-Year (cfs)
CRR2	7.77	1,102	3,286	,6939	8,532	9,836	11,735
CRR3	29.89	1,777	6,900	13,019	1,5876	18,510	22,190
CRR10	38.66	1,668	7,066	13,536	16,516	19,401	23,387
C104A	47.87	1,867	7,800	15,101	17,209	20,301	24,518
CRD2	0.90	228	698	1,311	1,506	1,753	2,077
CRD3	1.23	295	914	1,691	1,931	2,257	2,682
CRD4	5.00	528	1,656	3,161	3,822	4,019	4,808
CRD5	5.37	537	1,687	3,228	3,899	4,113	4,923
CRD6	5.62	543	1,714	3,266	3,945	4,170	4,993
INRR	54.73	1492	6,909	13,851	16,935	1,9953	24,227
CR3A	54.92	87	160	188	210	231	257

3.2 Minor Basin Analysis

Minor basins will be analyzed in the next phase of design and included in the Preliminary and Final Hydraulic Reports. Basins under 200 acres will be considered minor where the Rational Method will be used for calculating storm flows. For this 30% design phase, culvert crossings and low water crossings have been preliminarily identified and horizontally located on the plans based on topography and trail alignments.

4. Hydraulic Analysis

4.1 Major Culverts

Major culverts are defined as culverts larger than 48 inches in diameter. Box culverts will also be considered major culverts due to the size and cost. Two locations for reinforced concrete boxes have been analyzed at this design level. Both of these box locations are located on the alternative alignment where low water crossing would be difficult to construct given the topographic constraints and the trails vertical alignment. The results from the HY8 analysis are summarized in Table 5. The 50-year storm event was used for the design of these culverts. Full HY-8 output reports can be found in Appendix C.1 and C.2 for the Culvert A and B respectively.

Table 5. Major Culvert Hydraulic Summary

Culvert	Q50 (cfs)	Size	Upstream Invert (feet)	Downstream Invert (feet)	HW/D	Outlet Depth (feet)	Outlet Velocity (fps)
A	2311	(3) 12′ x 8′ RCB	3326.32	3322.10	0.96	3.67	17.47
B	563	10′ x 7′ RCB	3321.45	3320.60	1.11	3.39	16.60

4.2 Minor Culverts

Minor culverts are defined as culverts smaller than 48 inches in diameter. Subbasin delineation and hydraulic computations for minor culverts will be prepared in the next phase of design. Pipe sizes were estimated in the 30% design phase using aerial investigation and contour information.

4.3 Bridge and Floodplain Modeling

To assess the floodplain impacts of the main alignment trail crossings of the wash, a one-dimensional steady-state hydraulic model was developed using CivilGEO's GeoHECRAS data wrapper. This program then runs the hydraulic model using the latest version HEC-RAS (5.0.7). For FEMA floodplain purposes, a sub-critical model regime was used.

Project data was provided in a State Plane coordinate reference system in US Survey Feet, Nevada East zone, North American Datum of 1983 (NAD83)/2011. The project vertical datum used corresponds to the North American Vertical Datum of 1988 (NAVD88).

As is customary, the model's river centerline was defined along the most apparent thalwag path. As shown in Appendix C.3, the cross-sectional cut lines were drawn perpendicular to the likely high flow direction and were established about every 200 feet and at other changes in river geometry width, vertical and horizontal bends, and at apparent changes in roughness or vegetation. The model cross-sections extend from well upstream of the study area to the detention facility at the downstream end.

Terrain data for existing and proposed conditions was provided via a LandXML export from Bentley Open Roads Designer, and in the form of a Triangulated Irregular Network (TIN). These TINs were imported and read directly by GeoHECRAS along cross-sectional cut lines.

Flow lengths were computed by the model and edited to reflect horizontal bends in the wash. Manning's roughness values (n) were assigned as 0.035 and 0.023 for the overbanks and main channel portions, respectively. Bank stations were assigned based on geometry as well as subtle changes in vegetation.

Peak discharge rates stemmed from the approach and HEC-1 modeling efforts described in Section 2.2 and Section 3. For the study area of the wash, flow rates were assigned to the most upstream cross-section at river station 9174 using combination point C104A for the 2-, 10-, 25-, 50-, 100-, 200-, and 500-year return periods.

For most return periods, downstream boundary conditions utilized the peak storage water surface elevations reported for the existing detention basin, which was included in the HEC-1 model. The exceptions to this were the 2- and 10-year storm events, which used a critical depth boundary condition since peak water surface elevation was lower than the invert of the most downstream model cross-section.

Four scenarios were modeled, which are:

- Existing conditions
- Proposed conditions, main alignment option, with two new bridges
- Proposed conditions, main alignment option, one new bridge and one super box culvert crossing
- Proposed conditions, alternative alignment option, no new bridges or culverts.

For modeled crossings of the wash such as bridges and super box culverts, the following approaches and assumptions are noted:

- No survey work has been completed for the existing SR-159 bridge. Aerial photography and as-built drawings were used to develop bridge geometry in the hydraulic model.
- The trail profiles were used to set proposed bridge deck elevations, with an assumed 3-foot guard rail. Structure depths, and hence low chord elevations, are still being determined for the proposed bridge adjacent to the existing SR-159 bridge. A structural depth of 4.2 feet was used for this analysis.
- The energy bridge computation method was used.
- Contraction and expansion coefficients were increased around bridges, as appropriate.
- Ineffective flow as added to the upstream and downstream bridge face cross-sections.
- Sloped abutments at 1V:2H were included where appropriate.
- The proposed bridge near the existing SR 159 bridge was assumed to have a single 4-foot pier at its mid-span. The proposed upstream bridge consisted of two piers centered over the channel with a diameter of 3-feet. Since this proposed upstream bridge is currently expected to span the entire floodplain at this location, the piers columns were modeled using blocked obstructions instead of the HEC-RAS bridge routine.
- As another option of the main alternative, the upper crossing was modeled as seven concrete box culverts to be cast-in-place as a super box. The five middle culvert cells used a 45-foot span and a 25-foot rise, with 1.5-feet side walls. The two outer cells used a 30-foot span and 25-foot rise. Per Section 1004.1 of the CCRFCD HCDDM, 2-feet of bridge freeboard exist for the 100-year flood flows, and water surface elevation increases due to the bridge do not exceed 1.0-foot.

In order to meet the CCRFCD HCDDM freeboard requirement of 2 feet, the preliminary hydraulic model results indicate that the low chord of the proposed pedestrian bridge which parallels SR-159 will need to be no lower than 3,223 ft.

The existing wash is hydraulically steep at approximately 2% longitudinal bed slope. Floodplain model computations are typically performed using a sub-critical flow regime in order to produce more conservative floodplain limits for FEMA. However, the flow in the wash is super-critical for most reaches. As a result, most depths reported by the model are at critical depth. Fill added to the floodplain proposed with the alternative alignment increases the water surface elevations minimally and will not require a CLOMR or LOMR.

As shown in Appendix C.3, and for most areas, the resulting floodplain boundary is narrower than that currently mapped by the approximate FEMA Zone A. Detailed model output as well as graphical cross-sections and river profiles can be found in Appendix C.4. Figure 2 identifies cross section locations.

Figure 2. HEC-RAS Cross Section Locations

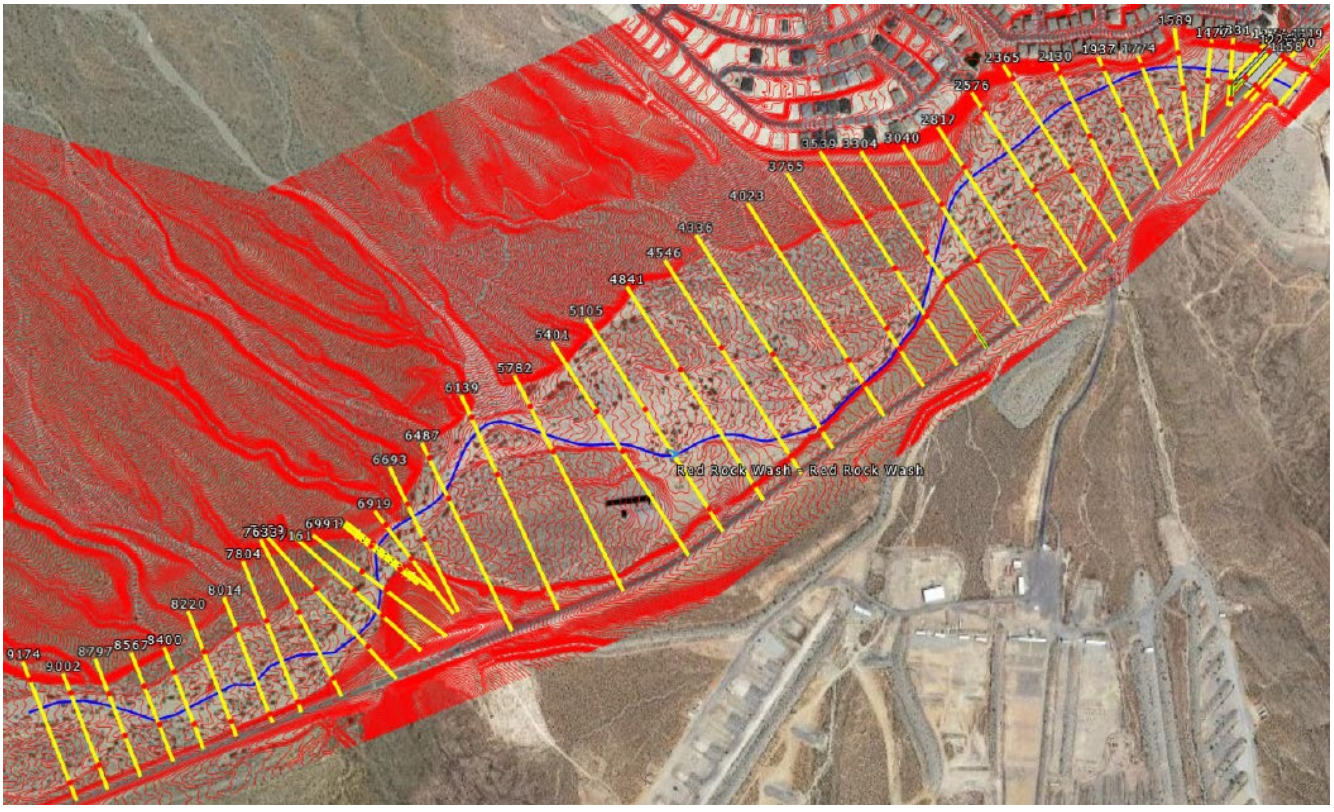


Table 6 summarizes the impacts to water surface elevation for the existing and three proposed scenarios.

Table 6. Floodplain Impacts

River Station	Water Surface Elevation (feet, NAVD88)				Change in Water Surface Elevation (feet)		
	Existing	Proposed Main	Proposed Alternate	Proposed Main with Superbox	Proposed Main	Proposed Alternate	Proposed Main with Superbox
9174	3359.73	3359.73	3359.73	3359.73	0	0	0
9002	3356.7	3356.7	3356.7	3356.7	0	0	0
8797	3353.5	3353.5	3353.5	3353.5	0	0	0
8567	3350	3350	3350	3350	0	0	0
8400	3346.65	3346.65	3346.65	3346.65	0	0	0
8220	3343.14	3343.14	3343.14	3343.14	0	0	0
8014	3338.55	3338.55	3338.55	3338.55	0	0	0
7804	3335.36	3335.36	3335.36	3335.36	0	0	0
7633	3331.33	3331.33	3331.33	3331.33	0	0	0
7429	3328.36	3328.36	3328.36	3328.36	0	0	0
7320	3326.37	3326.24	3326.37	3326.37	-0.13	0	0
7161	3324.61	3325.02	3324.61	3324.61	0.41	0	0
6991	3322.33	3322.4	3322.33	3323.32	0.07	0	0.99
6985	Proposed Trail Bridge or Superbox Culvert				Proposed Trail Bridge or Superbox		
6979	3321.96	3322.23	3321.96	3322.7	0.27	0	0.74
6919	3320.4	3320.4	3320.4	3320.4	0	0	0
6693	3316.58	3316.58	3316.58	3316.58	0	0	0
6487	3311.49	3311.47	3311.49	3311.47	-0.02	0	-0.02
6139	3305.11	3305.12	3305.11	3305.12	0.01	0	0.01
5782	3297.92	3297.91	3297.92	3297.91	-0.01	0	-0.01
5401	3290.37	3290.38	3290.37	3290.38	0.01	0	0.01
5105	3285.07	3285.07	3285.07	3285.07	0	0	0
4841	3280.03	3280.03	3280.03	3280.03	0	0	0
4546	3275.56	3275.56	3275.56	3275.56	0	0	0
4336	3271.62	3271.62	3271.62	3271.62	0	0	0
4023	3266.71	3266.72	3266.71	3266.72	0.01	0	0.01
3765	3261.72	3261.72	3261.72	3261.72	0	0	0
3539	3258.53	3258.53	3258.53	3258.53	0	0	0
3304	3255.45	3255.46	3255.46	3255.46	0.01	0.01	0.01

River Station	Water Surface Elevation (feet, NAVD88)				Change in Water Surface Elevation (feet)		
	Existing	Proposed Main	Proposed Alternate	Proposed Main with Superbox	Proposed Main	Proposed Alternate	Proposed Main with Superbox
3040	3251.16	3251.11	3251.11	3251.11	-0.05	-0.05	-0.05
2817	3246.61	3246.61	3246.61	3246.61	0	0	0
2576	3240.61	3240.63	3240.61	3240.63	0.02	0	0.02
2365	3236.33	3236.3	3236.3	3236.3	-0.03	-0.03	-0.03
2130	3232.81	3232.82	3232.81	3232.82	0.01	0	0.01
1937	3229.07	3229.07	3229.07	3229.07	0	0	0
1774	3225.61	3225.68	3225.62	3225.68	0.07	0.01	0.07
1589	3222.82	3222.88	3222.82	3222.88	0.06	0	0.06
1477	3221.96	3222.45	3222	3222.45	0.49	0.04	0.49
1331	3219.87	3219.88	3220.28	3219.88	0.01	0.41	0.01
1277	3220.75	3220.33	3220.84	3220.33	-0.42	0.09	-0.42
1252	Proposed Trail Bridge				Proposed Trail Bridge		
1226	3219.5	3219.51	3219.67	3219.51	0.01	0.17	0.01
1190	Existing SR-159 Bridge				Existing SR-159 Bridge		
1158	3216.8	3216.8	3216.8	3216.8	0	0	0
1119	3213.6	3213.6	3213.6	3213.6	0	0	0
1000	3214.45	3214.45	3214.45	3214.45	0	0	0

4.4 Low Water Crossings

Hydraulics for low water crossings will be analyzed in the next phase of design. It is anticipated that low water crossings will convey runoff from the 25-year storm event within the limits of the crossing. Low water crossings will include a concrete cutoff wall around the perimeter to mitigate scour and protect the crossing. The surface will be constructed of concrete for durability.

4.5 Culvert Material Selection

It is recommended that corrugated metal pipe (CMP) be used for the majority of the pipe crossings and reinforced concrete be used for box culverts (RCB). Plastic and reinforced concrete pipe (RCP) may be considered in lieu of CMP. Minimum pipe gage should be per Federal Highway Administration Customary Standard 602-1.

Corrosion risk is assumed to be low but will be verified with a geotechnical investigation. Corrosion mitigation measures that can be utilized include applying a layer of structural backfill or aggregate base course to separate native material, using galvanized or epoxy coatings, using cathodic protection, or using a heavier gauge steel.

4.6 Ditches

No ditch calculations have been performed for this preliminary submittal. In the next phase of design, ditches will be analyzed based on the trail alignment and how best to convey stormwater from one side of the trail to the other.

5. Recommended Improvements

5.1 Culverts

A triple (3) 12-foot by 8-foot RCB culvert is being proposed to convey flows underneath the alternative alignment trail at approximate Station 153+00. It will be constructed to match existing channel flowline at a slope of 5.9%. Riprap revetment will be placed at both the upstream and the downstream ends of the culvert. Preliminary riprap calculations indicate that minimum length needed will be 54-feet upstream and downstream of the culvert with median stone size of 18 inches. Riprap sizing was completed using HEC-14 design criteria and will be confirmed and finalized in the Preliminary and Final Hydraulics Report.

A 10-foot by 7-foot RCB culvert is being proposed to convey flows underneath the alternative alignment trail at approximate Station 149+00. It will be constructed to match existing channel flowline at a slope of 6.2%. Riprap revetment will be placed at both the upstream and the downstream end of the culvert. Preliminary riprap calculations indicate that minimum length needed will be 33-feet upstream and downstream of the culvert with median stone size of 18-inches. Riprap sizing was completed using HEC-14 design criteria and will be confirmed and finalized in the Preliminary and Final Hydraulics Report.

The other proposed culverts vary in diameter and require additional hydrologic and hydraulic analysis to be completed as a part of the next design submittal. For this Hydraulic Recommendation Report, several sizes (24-inch, 36-inch, and 48-inch) were assumed in locations of low points in the alignment profile. These sizes were assumed based on visual inspection of the topography and tributary area to each culvert. It should be noted that these sizes may change and will be optimized once additional modeling has been completed if the alternative alignment is chosen for the proposed alignment. These sizes have been included at this design level to provide draft quantities and estimates.

5.2 Low Water Crossings

There are 11 low water crossings proposed with this project at this design level, two for the alternative alignment and nine for shared alignment. The proposed low water crossings have been preliminarily identified at the following locations:

- 115+50
- 135+50
- 177+00
- 206+50
- 242+00
- 263+00
- 286+00
- 305+00
- 312+50
- 327+00
- 344+75

The proposed low water crossings will feature concrete cutoff walls around the perimeters of the crossings to protect the trail from scour and will be designed to convey the 25-year flow with the trail section being constructed of reinforced concrete.

5.3 Bridges

To adequately assess the hydraulics of the wash, it is likely that Clark County and FEMA will require the existing bridge to be surveyed so that low chord elevations can be correctly represented. The structural design and profile of the proposed bridge associated with the main alignment scenario will need to be

refined to help ensure adequate freeboard. The bridge type and geometry has not been finalized and the structural depth may decrease.

5.4 Floodplain Impacts

Table 6 shows that impacts to the water surface elevation from the proposed main alignment with bridges or the proposed alternate alignment scenarios are less than 0.5 foot. The impacts due to the proposed main alignment alternative using a super box for the upper crossing include an increase in 100-year water surface elevation of 0.99 foot at the proposed super box location. This impact may be technically acceptable but is close to the limit of 1.0 foot. Therefore, a CLOMR is not expected to be required at this time. Fill in the floodplain to construct the alternate alignment results in very minimal increases in the water surface elevation due to the floodplain width.

6. Erosion and Sediment Control

6.1 Construction BMP's

Fiber roll, riprap, or gravel bag check dams will be utilized in cut ditches and immediately upstream of proposed culvert crossings to minimize the amount of sediment leaving the project within concentrated flows. Silt fencing or fiber rolls will be used at the base of slopes to minimize sediment leaving the project via sheet flow. To minimize soil tracking from project vehicles, stabilized construction exits will be used where construction traffic is leaving disturbed areas.

6.2 Permanent BMP's

Proposed slopes in the project will be constructed at 1:4. Erosion control blankets will be placed on slopes equal to, or greater than, 1:3, or as needed at unstable locations. Seeding and mulching should be applied using dry methods.

To protect culvert outlets from erosion caused by concentrated flows, riprap protection will be used. Riprap protection will be placed at both ends of the culverts due to poor soils within the project limits and the steep slopes. Additional water quality mitigation measures are not proposed.

Per Section 705.4.1 of the Clark County Regional Flood Control District's HCDDM, riprap rock sizes are determined via three methods. The tractive stress and Smith and Murray methods are preferred, which are a function of channel depth, channel velocity, and slopes (channel, energy, and side). A median rock size of 18 inches is anticipated to help protect the bridge abutments and spill-through slopes of the bridges.

7. References

Hydraulic Design Series No. 2, Highway Hydrology, U.S. Department of Transportation Federal Highway Administration, second edition, October 2002.

Hydraulic Design Series No. 5, Hydraulic Design of Highway Culverts, U.S. Department of Transportation Federal Highway Administration, third edition, January 2012.

Hydraulic Engineering Circular No. 14, Hydraulic Design of Energy Dissipators for Culverts and Channels, U.S. Department of Transportation Federal Highway Administration, third edition, revised July 2006.

Hydraulic Engineering Circular No. 22, Urban Drainage Design Manual, U.S. Department of Transportation Federal Highway Administration, third edition, revised August 2013.

HY-8, U.S. Department of Transportation Federal Highway Administration, Version 7.60, July 30, 2019.

2018 Las Vegas Valley Flood Control Master Plain Update, Clark County Regional Flood Control District, December 2018.

Hydraulic Criteria and Drainage Design Manual, Clark County Regional Flood Control District, August 12, 1999.

HEC-1 Flood Hydrograph Package, U.S. Army Corps of Engineers, June 1998.

HEC-RAS River Analysis System, U.S. Army Corps of Engineers, Version 5.0.7, March 2019.

Appendix A
Maps and Figures

A.1 FEMA FIRM Maps

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The **community map repository** should be consulted for possible updated or additional flood hazard information.

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National Geodetic Survey, NOAA
Silver Spring Metro Center 3
1315 East-West Highway
Silver Spring, Maryland 20910
(301) 713-3191

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Phone: 800-358-9616
FAX: 800-358-9620
www.fema.gov/msc

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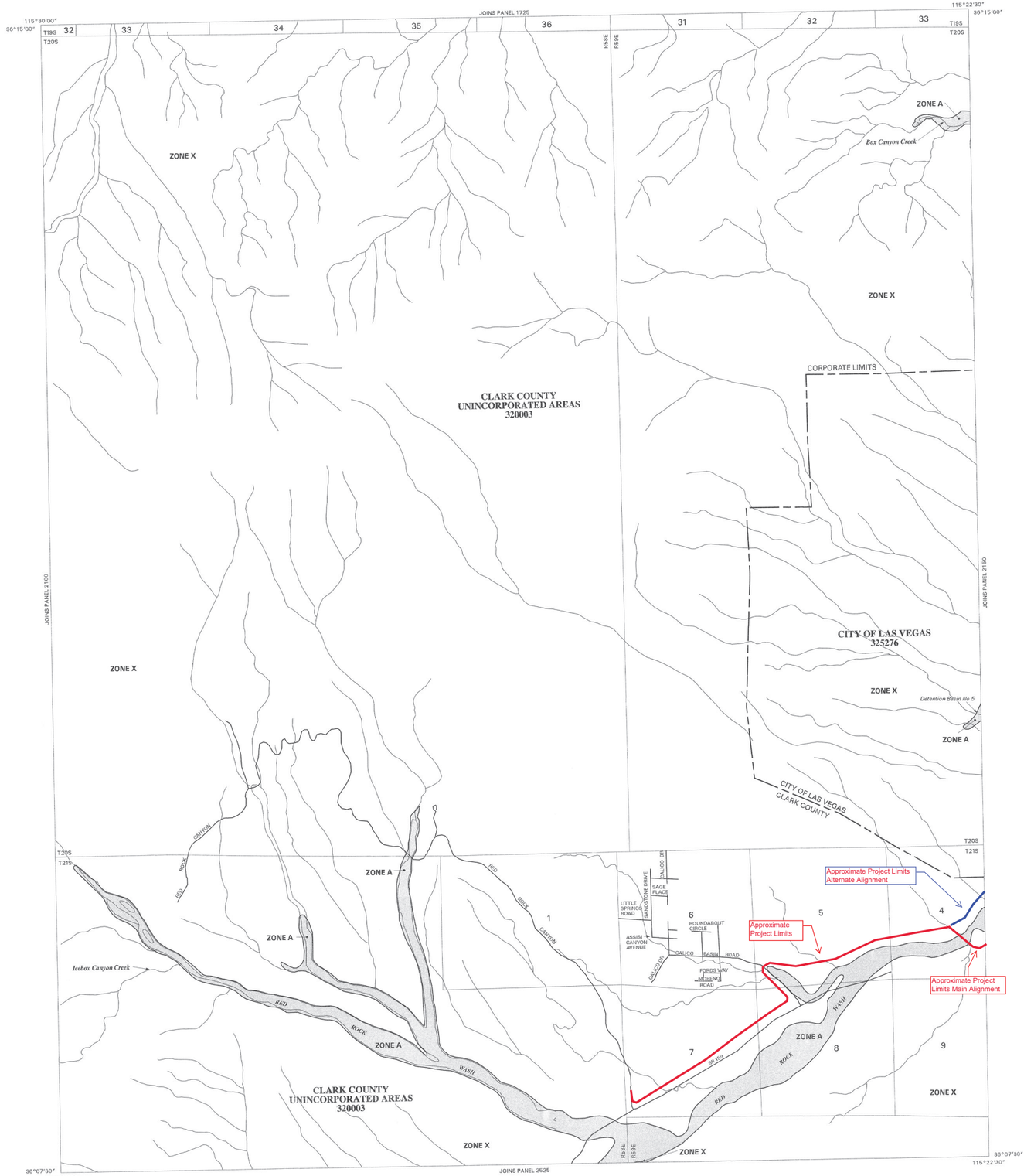
This DFIRM reflects several innovative features. These include:
+ Southern Nevada GIS – Cooperation among local governmental agencies throughout Clark County. The foundation of cooperation is the GIS Interlocal Agreements formed between fourteen regional participants. In part, the agreements specify that the Clark County GIS Management Office (GISMO) will be responsible for maintaining a GIS data warehouse and associated Southern Nevada GIS Metadata.

+ The GISMO's responsibilities go beyond maintaining the GIS data warehouse. GISMO also maintains the Street Centerline Database used by 911 dispatch services. This centerline database serves as the base map for this DFIRM.

DIGITAL DATA AVAILABILITY: http://www.co.clark.nv.us/ceit/gismo/gismo.htm



LEGEND

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD EVENT

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water surface elevation of the 1% annual chance flood.

ZONE A No base flood elevations determined.

ZONE AE Base flood elevations determined.

ZONE AH Flood depths of 1 to 3 feet (usually areas of ponding); base flood elevations determined.

ZONE AO Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.

ZONE AR Area of special flood hazard formerly protected from the 1% annual chance flood event by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood event.

ZONE A99 Area to be protected from 1% annual chance flood event by a Federal flood protection system under construction; no base flood elevations determined.

ZONE V Coastal flood zone with velocity hazard (wave action); no base flood elevations determined.

ZONE VE Coastal flood zone with velocity hazard (wave action); base flood elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

ZONE X Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

ZONE X Areas determined to be outside the 0.2% annual chance floodplain.

ZONE D Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

- Floodplain Boundary
- Floodway Boundary
- Zone D Boundary
- Coastal Barrier Boundary
- Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or velocities.
- 513 — Base Flood Elevation line and value; elevation in feet*
- (EL 987) — Base Flood Elevation value where uniform within zone; elevation in feet*

*Referenced to the North American Vertical Datum of 1988

- (A) — (A) Cross Section Line
- (23) — (23) Transect Line
- 97°07'30", 32°22'30" — Geographic coordinates referenced to the North American Datum of 1983 (NAD 83)
- 4276000M — 1000-meter Universal Transverse Mercator grid values, zone 11
- 600000 FT — 5000-foot grid ticks
- DX5510 — Bench mark (see explanation in Notes to Users section of this FIRM panel).
- M1.5 — River Mile

MAP REPOSITORY
Refer to Repository Listing on Index Map

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
AUGUST 16, 1995

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL
September 27, 2002: to update corporate limits, to change base flood elevations, to add base flood elevations, to add special flood hazard areas, to change special flood hazard areas, to delete special flood hazard areas, to change zone designations, to add roads and road names, to incorporate previously issued letters of map revision, to incorporate previously issued letters of map amendment, and to change floodway.

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at (800) 638-6620.

MAP SCALE 1" = 2000'
1000 0 2000 4000 FEET
600 0 600 1200 METERS

NFIP
NATIONAL FLOOD INSURANCE PROGRAM

PANEL 2125 E

FIRM
FLOOD INSURANCE RATE MAP
CLARK COUNTY, NEVADA AND INCORPORATED AREAS

PANEL 2125 OF 4090

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
LAS VEGAS, CITY OF	325276	2125	E
CLARK COUNTY, UNINCORPORATED AREAS	320003	2125	E

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER 32003C2125 E

MAP REVISED: SEPTEMBER 27, 2002

Federal Emergency Management Agency

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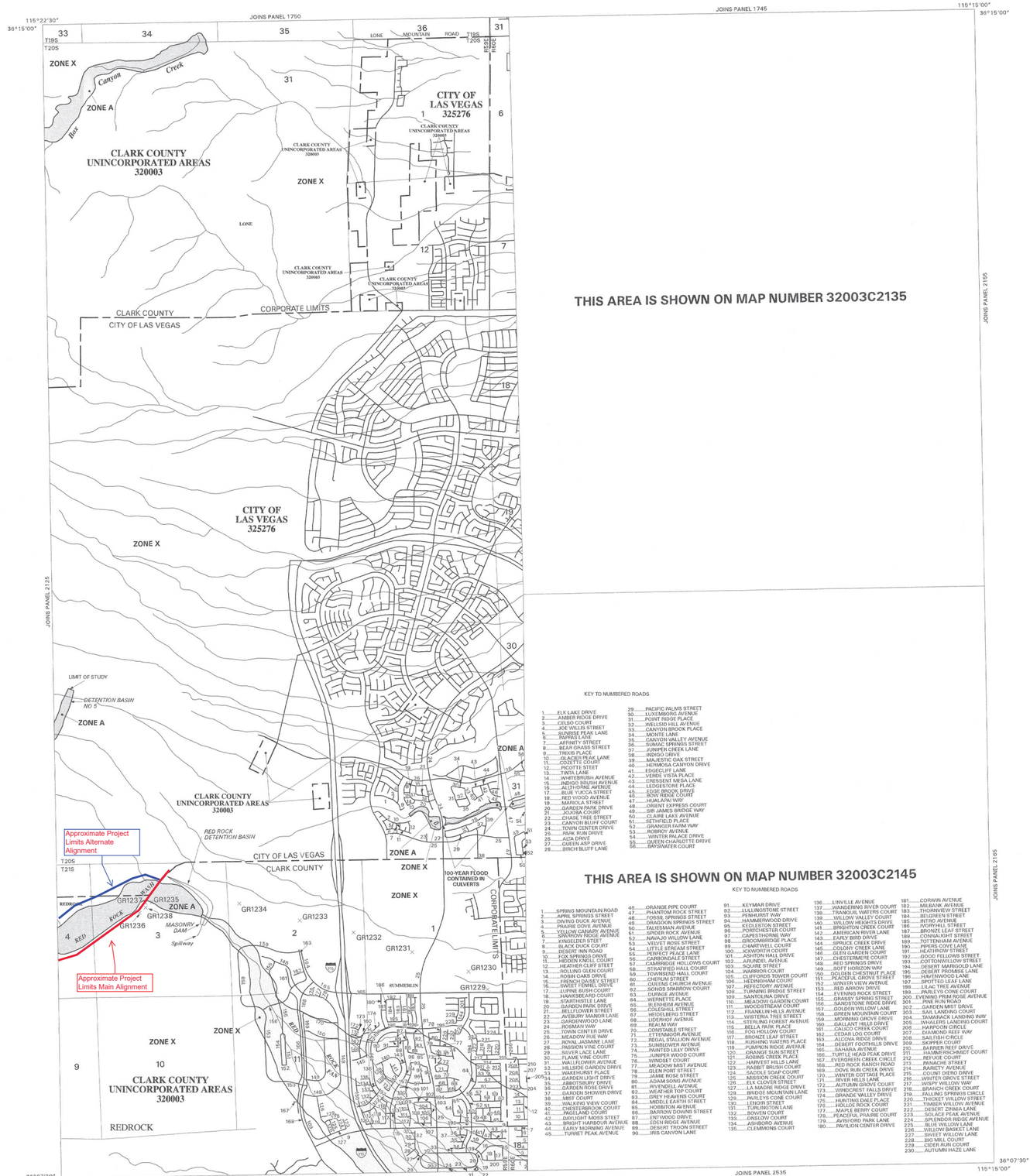

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Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or velocities.
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AUGUST 16, 1995

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

September 27, 2002: to update corporate limits, to change base flood elevations, to add base flood elevations, to add special flood hazard areas, to change special flood hazard areas, to delete special flood hazard areas, to change zone designations, to add roads and road names, to incorporate previously issued letters of map revision, to incorporate previously issued letters of map amendment, and to change floodway.

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at (800) 638-6620.

MAP SCALE 1" = 2000'
1000 0 2000 4000 FEET
300 0 600 1200 METERS

PANEL 2150 E

FIRM
FLOOD INSURANCE RATE MAP
CLARK COUNTY, NEVADA AND INCORPORATED AREAS

PANEL 2150 OF 4090
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
LAS VEGAS, CITY OF	325276	2150	E
CLARK COUNTY, UNINCORPORATED AREAS	320003	2150	E

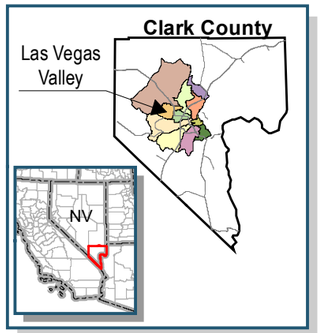
Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

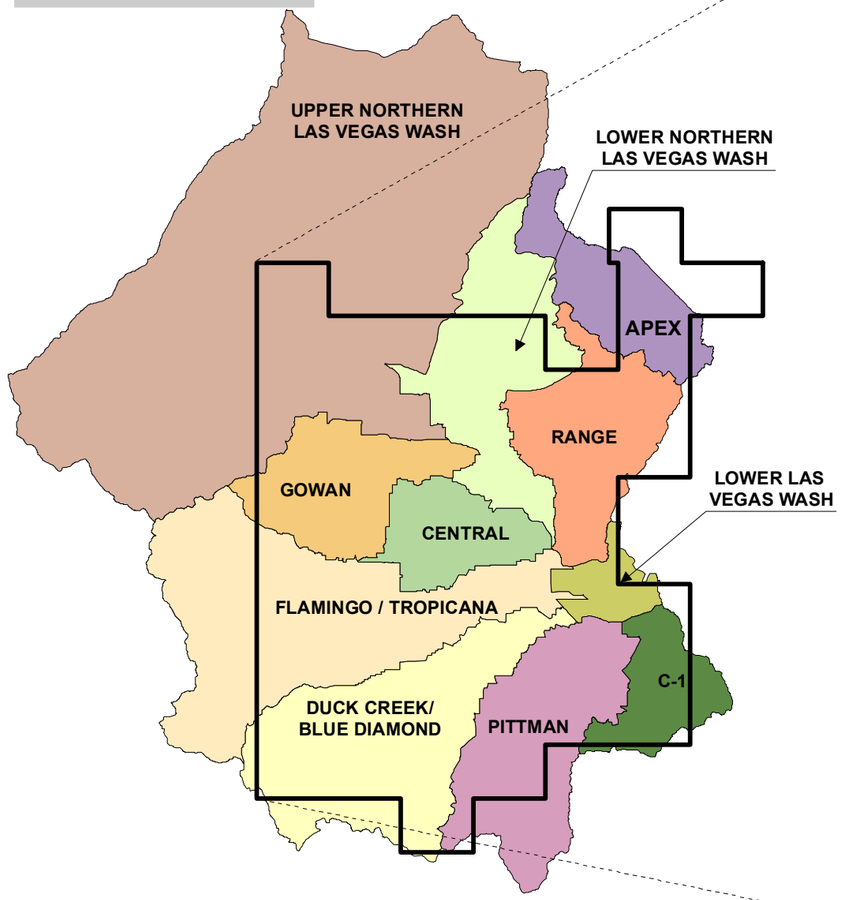
MAP NUMBER
32003C2150 E

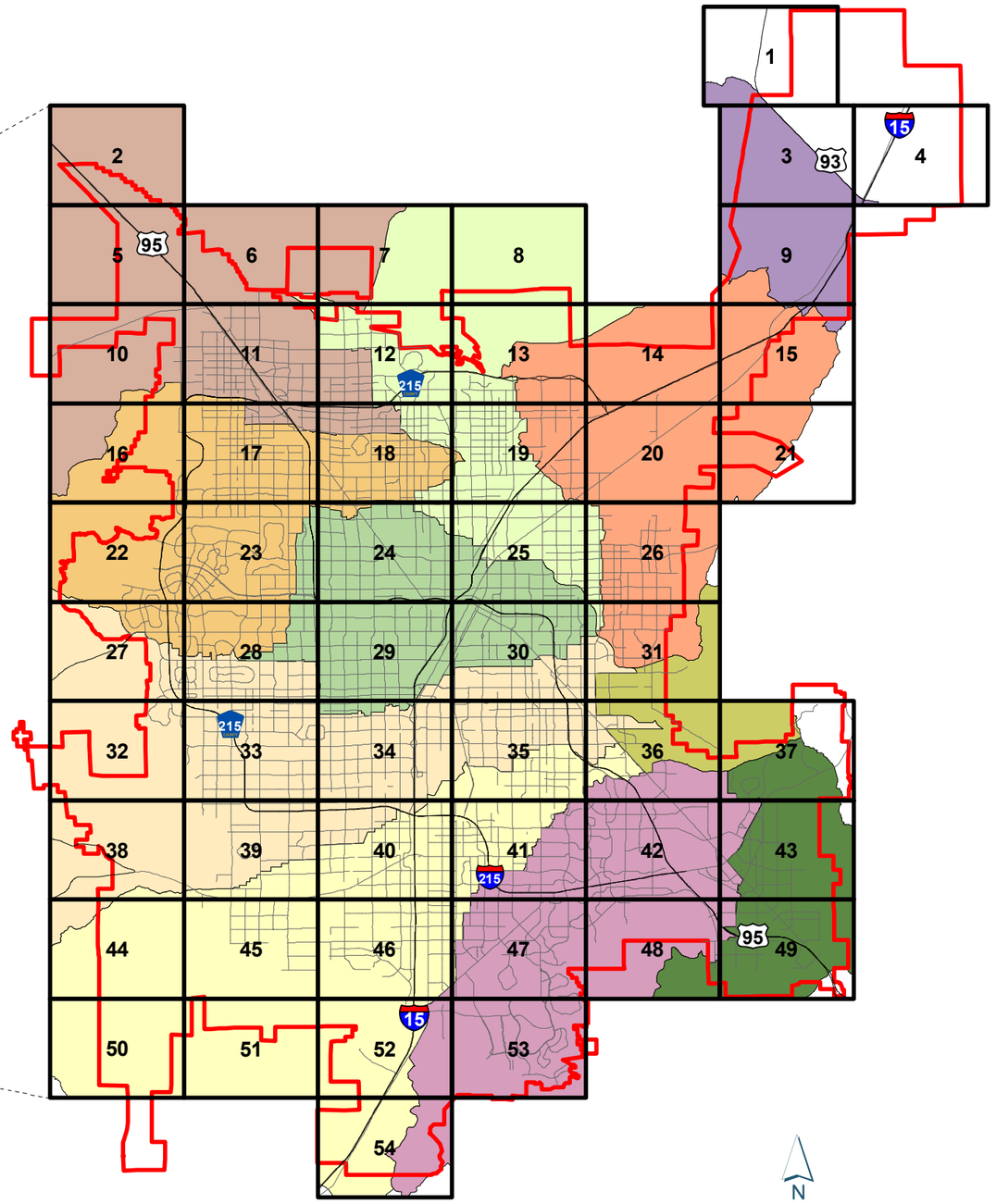
MAP REVISED:
SEPTEMBER 27, 2002

Federal Emergency Management Agency

A.2 CCRFCD Maps and Figures







N

0 5 10 20

Miles

Scale: 1 inch = 10 miles

N

0 2.5 5 10

Miles

Scale: 1 inch = 5 miles

REGIONAL FLOOD CONTROL DISTRICT

2018
LAS VEGAS VALLEY
FLOOD CONTROL
MASTER PLAN UPDATE

FIGURE F-Key

SHEET INDEX FOR F-MAPS

LEGEND

- 1 Sheet Index
- Ultimate Development Boundary
- Main Highways
- Major Streets

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REGIONAL FLOOD CONTROL DISTRICT

2018
LAS VEGAS VALLEY
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MASTER PLAN UPDATE

FIGURE F-27
FLOOD CONTROL FACILITIES

LEGEND

- Ultimate Development Boundary
- Existing Facilities
- Category A Proposed Facilities
- Category B Proposed Facilities
- Local Existing Facilities
- Detention Basin
- Culvert or Bridge Crossing
- Stormdrain
- Lined Channel
- Unlined Channel
- Levee/Dike
- Natural Wash/Floodway
- ID-Mile Separator

Remove & Replace/Parallel Facilities

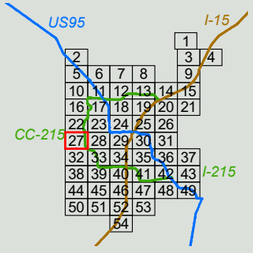
Category A	Category B
Channel	Channel
Stormdrain	Stormdrain
Crossing	Crossing

N

0 500 1,000 2,000 3,000
Feet

Scale: 1 inch = 2,000 feet

AerialSource:Esri World Imagery 2017



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ID / Mile	Status	Facility Description	Length (ft.)	Flow (cfs)	HEC-1 Node	HEC-1 Model	Tributary Area (sq.mi.)	Channel Slope (%) **
APAD		**ANGEL PARK - ALTA DRIVE BRANCH**						
0000	E	2: 12' X 8' RCB	945	2801	CSWAA-3	GOW4A	8.22	6.00
0018	E	10' X 8' RCB	1392	2801	CSWAA-3	GOW4A	8.22	4.53
0044	E	11' X 8' RCAP	1565	2801	CSWAA-3	GOW4A	8.22	4.24
0073	E	11' X 8' RCAP	2232	2629	CSWAA-2	GOW3A	7.63	3.50
0115	E	10' X 8' RCB	1600	2629	CSWAA-2	GOW3A	7.63	2.20
0146	E	10' X 8' RCB	3057	2200	CSWAA-1	GOW3A	6.95	4.40
0203	E	2: 7' X 5.5' RCB	1104	2200	CSWAA-1	GOW3A	6.95	5.28
0225	E	2: 7' X 5.5' RCB OUTLET	360	2137	SUM5DB	GOW3A	6.73	3.40
APBE		**ANGEL PARK - BELTWAY BRANCH**						
0000	E	3: 12' X 8' RCB	712	3366	CCSWFH15	GOW3A	3.39	0.82
0013	E	3: 12' X 8' RCB	489	3366	CCSWFH15	GOW3A	3.39	6.50
0022	E	CONC CHNL 20'W 7'D 2:1 SS	1556	3366	CCSWFH15	GOW3A	3.39	1.81
APCB		**ANGEL PARK - CHARLESTON BLVD BRANCH**						
0000	E	2: 10' X 6' RCB	833	1364	CSW18	GOW3A	1.37	1.54
0001	E	12' X 6' RCB	1000	1364	CSW18	GOW3A	1.37	3.13
0019	E	11' X 6' RCB	1616	999	CSW17	GOW3A	0.96	1.39
0050	E	8' X 7' RCB	757	999	CSW17	GOW3A	0.96	1.00
0064	E	8' X 7' RCB	849	999	CSW17	GOW3A	0.96	2.08
0080	E	7' X 7' RCB	1489	623	SW11	GOW3A	0.61	1.67
APD2		**ANGEL PARK - DESERT FOOTHILLS 2 BRANCH**						
0000	E	7' X 7' RCB	207	674	SWAA-2	GOW3A	0.68	2.29
0002	E	7' X 6' RCB	883	674	SWAA-2	GOW3A	0.68	1.08
APD3		**ANGEL PARK - DESERT FOOTHILLS 3 BRANCH**						
0000	E	7' X 7' RCB	1090	623	SW11	GOW3A	0.61	1.67
0021	E	7' X 7' RCB	750	623	SW11	GOW3A	0.61	2.75
APM5		**DETENTION BASIN #5**						
0000	E	384 AC-FT DETENTION BASIN #5		6856	SUM5IN	GOW3A	6.73	
0001	E	12,153 CFS PMF SPILLWAY		12153	SUM5IN	GOW3A	6.73	
0009	P0	CONC CHNL 50'W 4'D 2:1 SS	4180	3495	CDB55-7	GOW3A	2.60	5.80
APMD		**ANGEL PARK - MIDDLE BRANCH**						
0195	E	TRANSITION STRUCTURE	145	5058	C11A-1*	GOW4A	11.81	3.59
0198	E	CONC CHNL 62'-68'W 5.5'-7.5'D 2:1 SS	500	5058	C11A-1*	GOW4A	11.81	3.59
0208	E	CONC CHNL 62'-68'W 6.5'-7.5'D 2:1 SS	550	5058	C11A-1*	GOW4A	11.81	2.81
0218	E	CONC CHNL 66'-69'W 6.5'-7.0'D 2:1 SS	500	5058	C11A-1*	GOW4A	11.81	2.00
0227	E	TRANSITION STRUCTURE	134	5058	C11A-1*	GOW4A	11.81	2.00
0230	E	3: 12' X 8' RCBC @ PAVILION CENTER DR	133	5058	C11A-1	GOW4A	11.81	2.00
0233	E	TRANSITION STRUCTURE	207	5058	C11A-1	GOW4A	11.81	4.00
0237	E	CONC CHNL 76' W 6.5'-9.0'D 2:1 SS	516	5058	C11A-1	GOW4A	11.81	4.00
0247	E	3: 12' X 8' RCBC @ ACCESS RD	52	5058	C11A-1	GOW4A	11.81	4.00
0248	E	TRANSITION STRUCTURE	128	5058	C11A-1	GOW4A	11.81	4.00
0253	E	CONC CHNL 76'W 6.5'D 2:1 SS	283	5058	C11A-1	GOW4A	11.81	4.00
0258	E	TRANSITION STRUCTURE	100	4929	CCSWAA-3	GOW4A	11.60	0.82
APSO		**ANGEL PARK - SOUTH BRANCH**						
0258	E	NATURAL WASH	3235	1736	C12A	GOW3A	1.76	1.36
0345	E	2: 8' X 8' RCBC @ PAVILION CENTER	120	1364	CSW18	GOW3A	1.37	2.00
0346	E	NATURAL WASH	880	1364	CSW18	GOW3A	1.37	1.40
RRBW		**RED ROCK CHANNEL - BELTWAY LATERAL**						
0000	E	6' X 6' RCB	1300	500	USACE	USACE	0.51	0.67
RRWA		**RED ROCK CHANNEL**						
0436	E	CONC CHNL 14'W 8'D 0:1 SS	800	2300	USACE	USACE	2.19	3.15
0440	E	CONC CHNL 10'W 7.5'D 2:1 SS	2660	2300	USACE	USACE	2.19	2.14
0490	E	CONC CHNL 13'W 10'D 0:1 SS	200	2300	USACE	USACE	2.19	1.00
0500	E	13' X 10' RCBC @ DESERT INN	190	1900	USACE	USACE	2.19	1.00
0502	E	CONC CHNL 10'W 7'D 2:1 SS	1580	1900	USACE	USACE	1.73	2.60
0534	E	CONC CHNL 16'W 7'D 0:1 SS	400	1500	USACE	USACE	1.73	1.24
0541	E	CONC CHNL 10'W 7'D 2:1 SS	2120	1500	USACE	USACE	1.04	0.80
0581	E	13' X 9' RCB	1040	1000	USACE	USACE	0.70	0.60
0606	E	10' X 9' RCB	320	750	USACE	USACE	0.70	0.60
0607	E	10' X 9' RCB	450	750	USACE	USACE	0.70	0.60
0608	E	96" RCP	4110	460	USACE	USACE	0.70	0.55
0692	E	96" CIPCP	170	180	USACE	USACE	0.19	1.40

ID / Mile	Status	Facility Description	Length (ft.)	Flow (cfs)	HEC-1 Node	HEC-1 Model	Tributary Area (sq.mi.)	Channel Slope (%) **
RRWA		**RED ROCK CHANNEL**						
0695	E	96" RCP	300	180	USACE	USACE	0.19	0.50
0701	E	72" RCP	125	180	USACE	USACE	0.19	0.50
0709	E	RIPRAP CHNL 10'W 6'D 2:1 SS	930	180	USACE	USACE	0.19	0.80
0714	E	2.25' X 2.25' RCBC OUTLET	445	180	USACE	USACE	54.73	
0715	E	110,000 CFS PMF SPILLWAY		110000	USACE	USACE	54.73	
0716	E	2,007 AC-FT RED ROCK DETENTION BASIN		12800	USACE	USACE	54.73	
0777	E	2 SPAN BRIDGE 200'W 17'D @ SR 159	50	1922	CRD3	FLAM3A	1.23	2.50

*The HEC-1 node shown identifies the controlling concentration point for the associated facility and is located upstream of this facility due to decreasing peak flow with increasing tributary area caused by storm distribution transitions, depth area reduction factors, or attenuation of flow from routing.
**As-built or design slopes were used when available. All other slopes are based on existing topography. The user should verify the facility slope listed prior to performing any facility specific analysis.
^ For parallel facilities, the existing facility flow equals its normal depth capacity, and the proposed parallel facility flow equals the remaining flow (i.e. HEC-1 Node flow = existing facility normal depth capacity + proposed parallel facility flow).
USACE - Refer to "Las Vegas Wash & Tributaries (Tropicana and Flamingo Washes) Hydrologic Basis for Design" prepared by U.S. Army Corps of Engineers, Los Angeles District, June 1993. See Figure W-6 for USACE Boundary.

REGIONAL FLOOD CONTROL DISTRICT

2018 LAS VEGAS VALLEY FLOOD CONTROL MASTER PLAN UPDATE

FACILITY INVENTORY FIGURE F-27

LEGEND

ID (Facility Identifier) AABB
Parent Stream Name
Stream Name
Mile 0000
Distance Above Confluence with Parent Stream (Miles)
Miles in Hundredths

Existing Facility.....E
Proposed or Modified Facility.....P
Contingency Level
Category A.....P
Category B.....P0

Bottom Width.....W
Depth.....D
Side Slope, H:V.....SS

Construction Features

Cast in Place Concrete Pipe	CIPCP	Reinforced Concrete Arch Culvert	RCAC
Corrugated Metal Arch Pipe Culvert	CMAP	Reinforced Concrete Box	RCB
Corrugated Metal Pipe Culvert	CMPC	Reinforced Concrete Box Culvert	RCBC
High Density Polyethylene	HDPE	Reinforced Concrete Pipe	RCP
Horizontal Elliptical Reinforced Concrete Pipe	HERCP	Reinforced Concrete Pipe Culvert	RCPC
Reinforced Concrete Arch Pipe	RCAP	Storm Sewer Pipe	SSP

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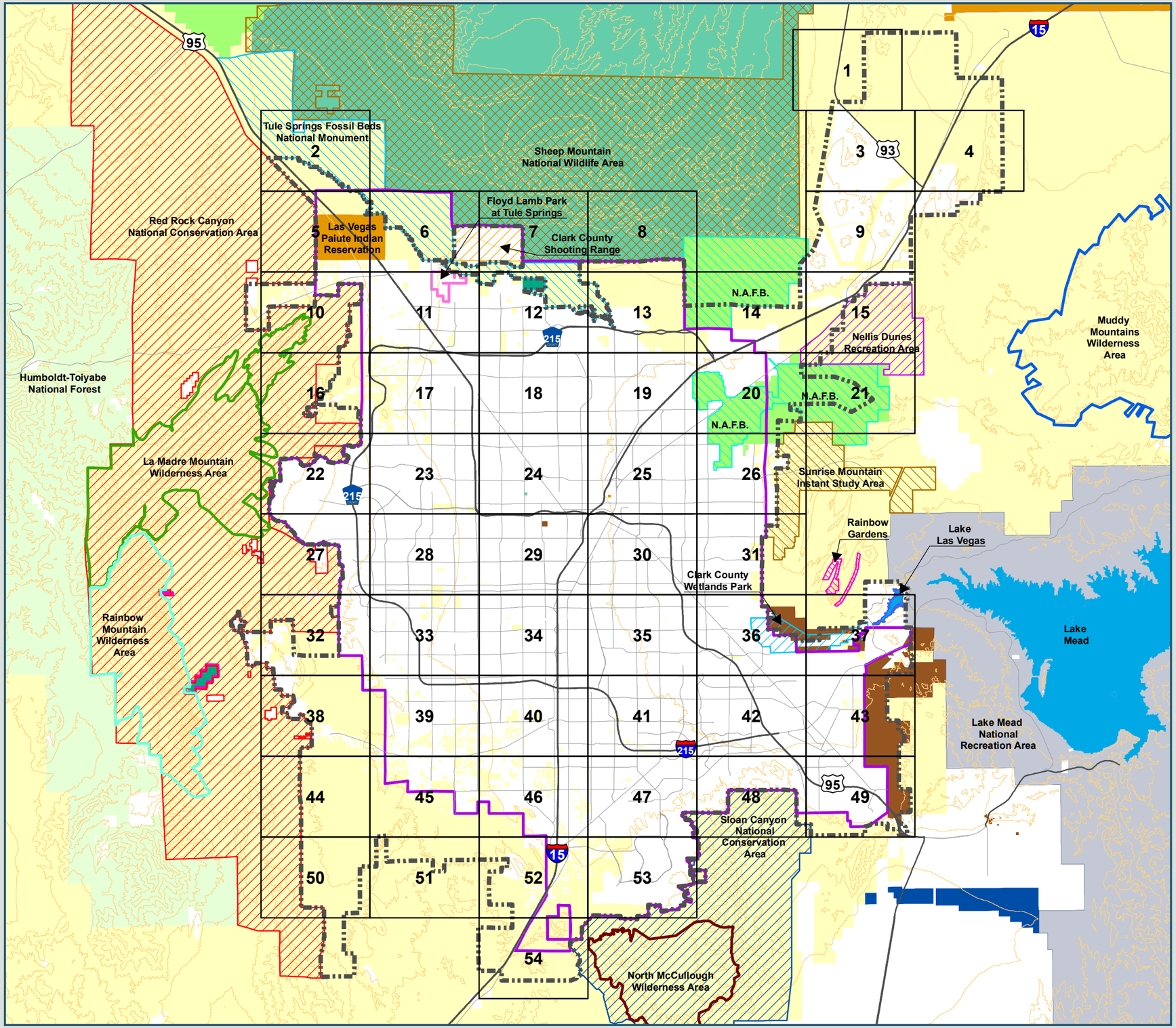
REGIONAL FLOOD CONTROL DISTRICT

2018
LAS VEGAS VALLEY
FLOOD CONTROL
MASTER PLAN UPDATE

FIGURE G-1

LAND OWNERSHIP



LEGEND

- Ultimate Development Boundary
- 1 Sheet Index
- Red Rock Canyon National Conservation Area
- Sloan Canyon National Conservation Area
- Lake Las Vegas
- Lake Mead
- La Madre Mountain Wilderness Area
- Muddy Mountains Wilderness Area
- North McCullough Wilderness Area
- Rainbow Mountain Wilderness Area
- Sunrise Mountain Instant Study Area
- Bureau of Land Management
- Bureau of Reclamation
- Department of Defense
- Department of Energy
- U. S. Fish and Wildlife Service
- National Forest Service
- State of Nevada
- Private
- Regional Park
- Tule Springs Fossil Beds National Monument
- Desert National Wildlife Range
- Bureau of Indian Affairs
- Lake Mead National Recreation Area
- Nellis Air Force Base (N.A.F.B.)
- State Parks
- Southern Nevada Public Lands Management Act Area Boundary
- Nellis Dunes Recreation Area
- Conservation Transfer Area
- Clark County Shooting Range
- Clark County Wetlands Park Boundary
- Rainbow Gardens
- Main Highways
- Major Streets
- 500 ft Contours (USGS)

Flood Control Facilities

- Existing Facilities
- Category A Proposed Facilities
- Category B Proposed Facilities
- Category A Remove & Replace/ Parallel Facilities
- Category B Remove & Replace/ Parallel Facilities

SOURCES:

Bureau of Land Management (BLM). 2008. Online Geospatial data.UTM:https://navigator.blm.gov/data?keyword=national%20parks&fs_publicRegion=Nevada. Accessed March 2018.

PBS&J. Clark County Regional Flood Control District 2008 Las Vegas Valley Flood Control Master Plan Update. September 2008.

Clark County. Nevada. Online GIS Data. 2018. http://www.clarkcountynv.gov/gis/services/Pages/FreeGISData.aspx Accessed January 2018.

N

0 2.25 4.5 9

Miles

Scale : 1 inch = 4.5 miles

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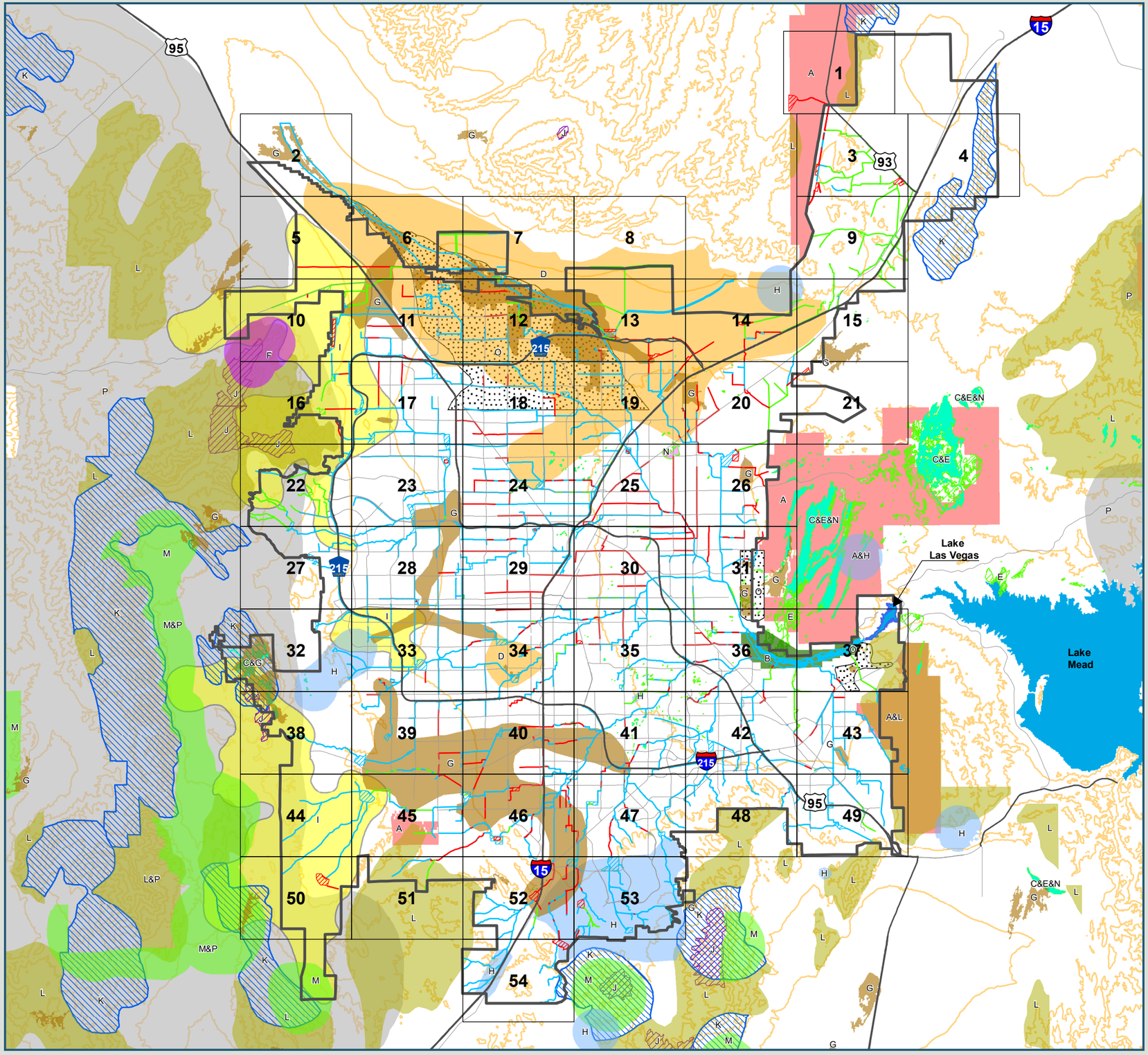
REGIONAL FLOOD CONTROL DISTRICT

2018
LAS VEGAS VALLEY
FLOOD CONTROL
MASTER PLAN UPDATE

FIGURE G-2

ENVIRONMENTALLY SENSITIVE AREAS



LEGEND

- Ultimate Development Boundary
- 1 Sheet Index
- A Areas of Critical Environmental Concern
- B Wetland
- C White Bearpoppy
- D Las Vegas Buckwheat and Las Vegas Bearpoppy
- E Las Vegas Bearpoppy
- F Mojave Milkvetch
- G Mesquite/Acacia
- H Rosy Twotone Beardtongue
- I Yellow Twotone Beardtongue
- J Bluediamond Cholla
- K BLM Crucial Bighorn Habitat
- L BLM Bighorn Winter Range
- M BLM Quail Habitat
- N Las Vegas Buckwheat
- Paleontological Sensitive Area
- BLM Horse and Burro Management Area
- Main Highways
- Major Streets
- 500 ft Contours (USGS)

Flood Control Facilities

- Existing Facilities
- Category A Proposed Facilities
- Category B Proposed Facilities
- Category A Remove & Replace/ Parallel Facilities
- Category B Remove & Replace/ Parallel Facilities

Information displayed on this map is for general reference only. The environmentally sensitive areas presented on this figure are conservative and do not account for areas that are urbanized. These areas are meant to show only where there is a "potential" for sensitive resources to occur and are not meant to define exact locations. The Bureau of Land Management, U.S. Fish and Wildlife Service, Nevada Department of Wildlife, and the Nevada Natural Heritage Program should be consulted for site specific information. Site-specific investigations and species-specific surveys must be conducted for each project to determine whether sensitive environmental resources occur in a specific project area.

*Potential habitat exists for the Mojave desert tortoise, western chuckwalla, banded Gila monster, migratory birds, protected bat species, and desert kit fox on undeveloped land throughout the study area.
*Potential habitat for Gambel's Quail occurs in washes and wetland areas throughout the entire study area.
*Rosy Twotone Beardtongue habitat also exists southwest of the Ultimate Development Boundary.
*Cacti and yucca species occur on undeveloped land throughout the study area.
*Wetlands are known to occur adjacent to the Las Vegas Wash in the eastern portion of the study area.
*Dry ephemeral washes occur throughout the study area.
*Sensitive cultural resources may occur throughout the study area.
*Areas of Critical Environmental Concern (ACEC) are designated by the BLM "to protect and prevent irreparable damage to important historic, cultural, or scenic values, fish and wildlife resources or other natural systems or processes, or to protect life and safety from natural hazards". (Reference: Federal Land Policy And Management Act of 1976, 43 USC Sec. 1702).

SOURCES:

*Bureau of Land Management(BLM).2018. Online Geospatial Data.BLM NV Wilderness Study Areas Polygon. https://navigator.blm.gov/data?keyword=national%20parks&fs_publicRegion=Nevada. Accessed March
*BLM. 2018. Online Geospatial Data. BLM NV Designated Areas of Critical Environmental Concern Polygons. https://navigator.blm.gov/data?keyword=national%20parks&fs_publicRegion=Nevada. Accessed March.
*BLM
*Soils Based Habitat model.Matt Hamilton of EPG, Inc. under contract with BLM Las Vegas Field Office.
*Gysiferous soils model. TetraSpectra Geomatics for Clark County Desert Conservation Program.
*PBS&J. Clark County Regional Flood Control District 2008 Las Vegas Flood Control Master Plan Update. September 2008.

N

0 2.25 4.5 9

Miles

Scale: 1 inch = 4.5 miles

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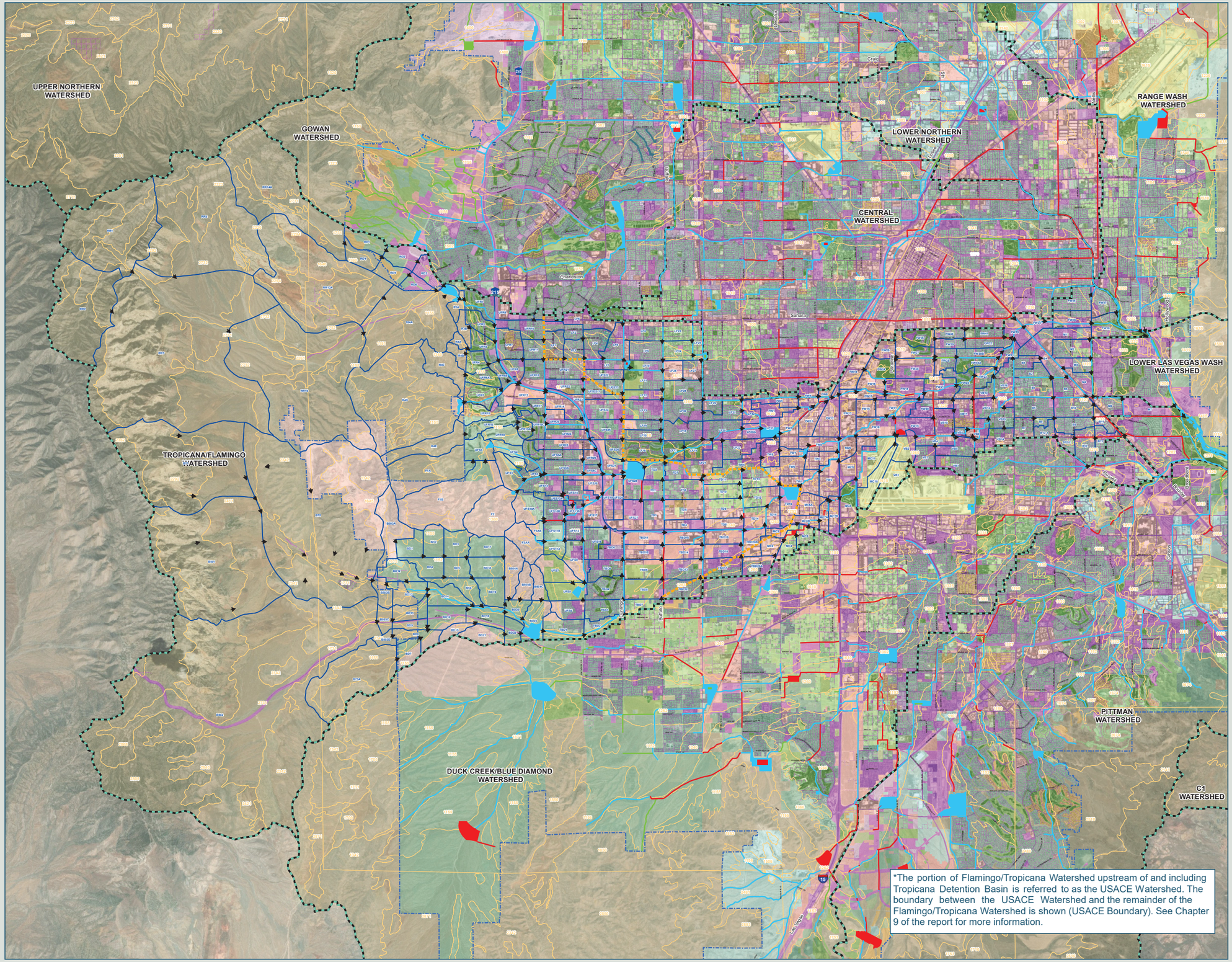


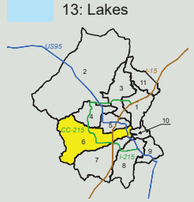
REGIONAL FLOOD CONTROL DISTRICT

2018 Las Vegas Valley Master Plan Update

Figure W-6
Flamingo/Tropicana Watershed

Legend

- Flow Arrows
- NodeID flow(cfs) Concentration Points
- Existing Facilities
- Category A Proposed Facilities
- Category B Proposed Facilities
- USACE Boundary*
- Ultimate Development Boundary
- Watershed
- BasinID Subbasins
- MUSYM Soils
- 1: Undeveloped Land, Open desert
- 2: Parks, Golf Courses
- 3: Rural, 0.5-1 units per acre (uses 1 unit/acre)
- 4: Low-Density Residential, 1-2 units per acre (uses 2 units/acre)
- 5: Medium-Density Residential, 2-4 units per acre (uses 3 units/acre)
- 6: High-Density Residential, 4-8 units per acre (uses 6 units/acre)
- 7: Public Facility and Residential, 8-12 units/acre
- 8: Very High-Density Residential, 12 units/acre or more
- 9: Commercial, Retail, Casino, High Rise Condominiums
- 10: Light Industrial
- 11: Heavy Industrial
- 12: Schools
- 13: Lakes



N

Scale: 1 inch = 1.1 mile

0 0.55 1.1 2.2

Miles

*The portion of Flamingo/Tropicana Watershed upstream of and including Tropicana Detention Basin is referred to as the USACE Watershed. The boundary between the USACE Watershed and the remainder of the Flamingo/Tropicana Watershed is shown (USACE Boundary). See Chapter 9 of the report for more information.

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PRECIPITATION ADJUSTMENT RATIOS

Recurrence Interval	Ratio to NOAA Atlas 2
2-year	1.00
5-year	1.16
10-year	1.24
25-year	1.33
50-year	1.39
100-year	1.43

NOTE: 1. Multiply the values obtained from the NOAA Atlas 2 by the above ratios to obtain the adjusted precipitation values.

2. NOAA Atlas 2 values for use with TR-55 shall not be adjusted by the above ratios.

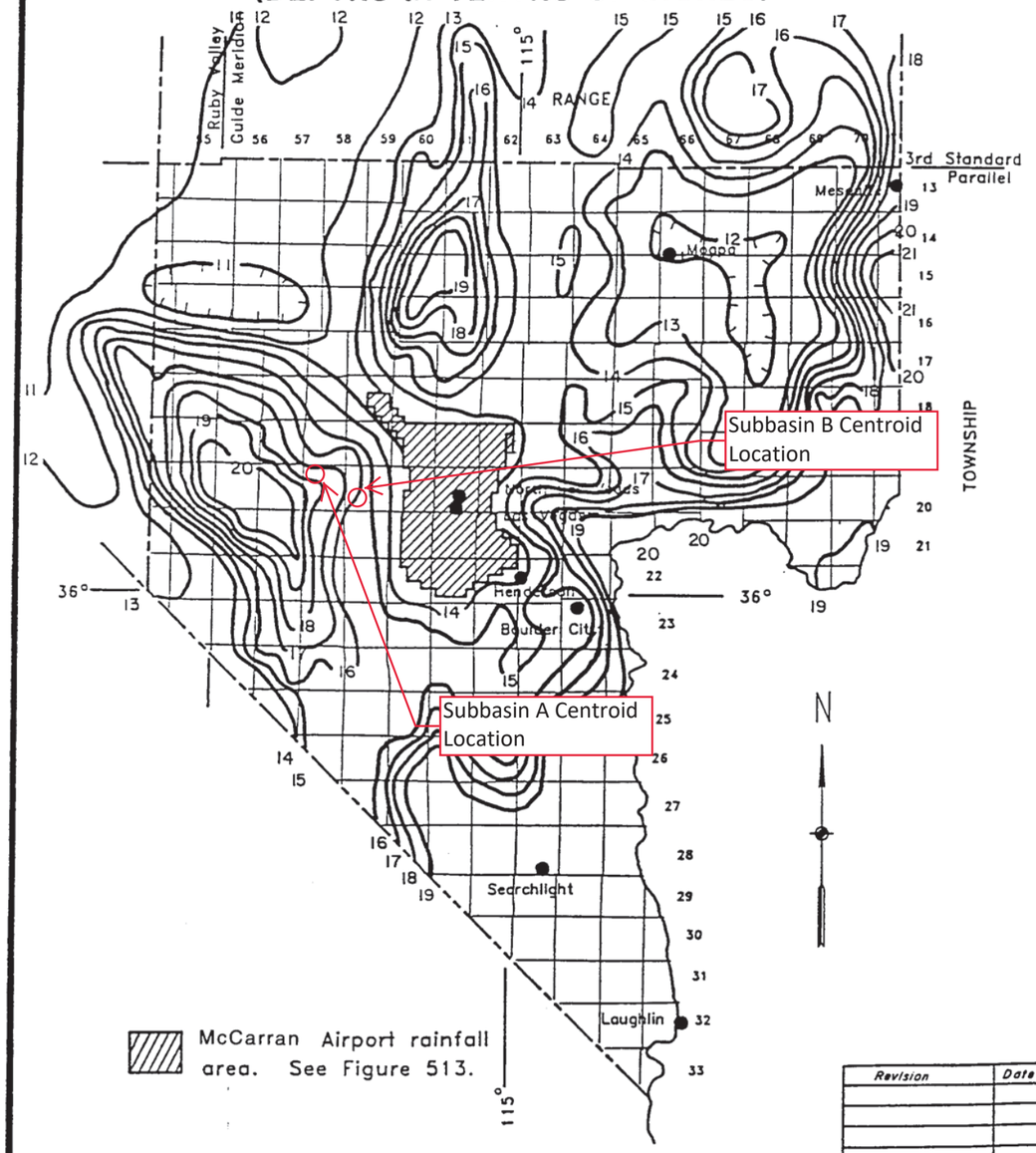
3. Tables 505 and 506 require no adjustments.

Revision	Date

WRC ENGINEERING | REFERENCE: USACE, Los Angeles District, 1988 | TABLE 501

HYDROLOGIC CRITERIA AND DRAINAGE DESIGN MANUAL

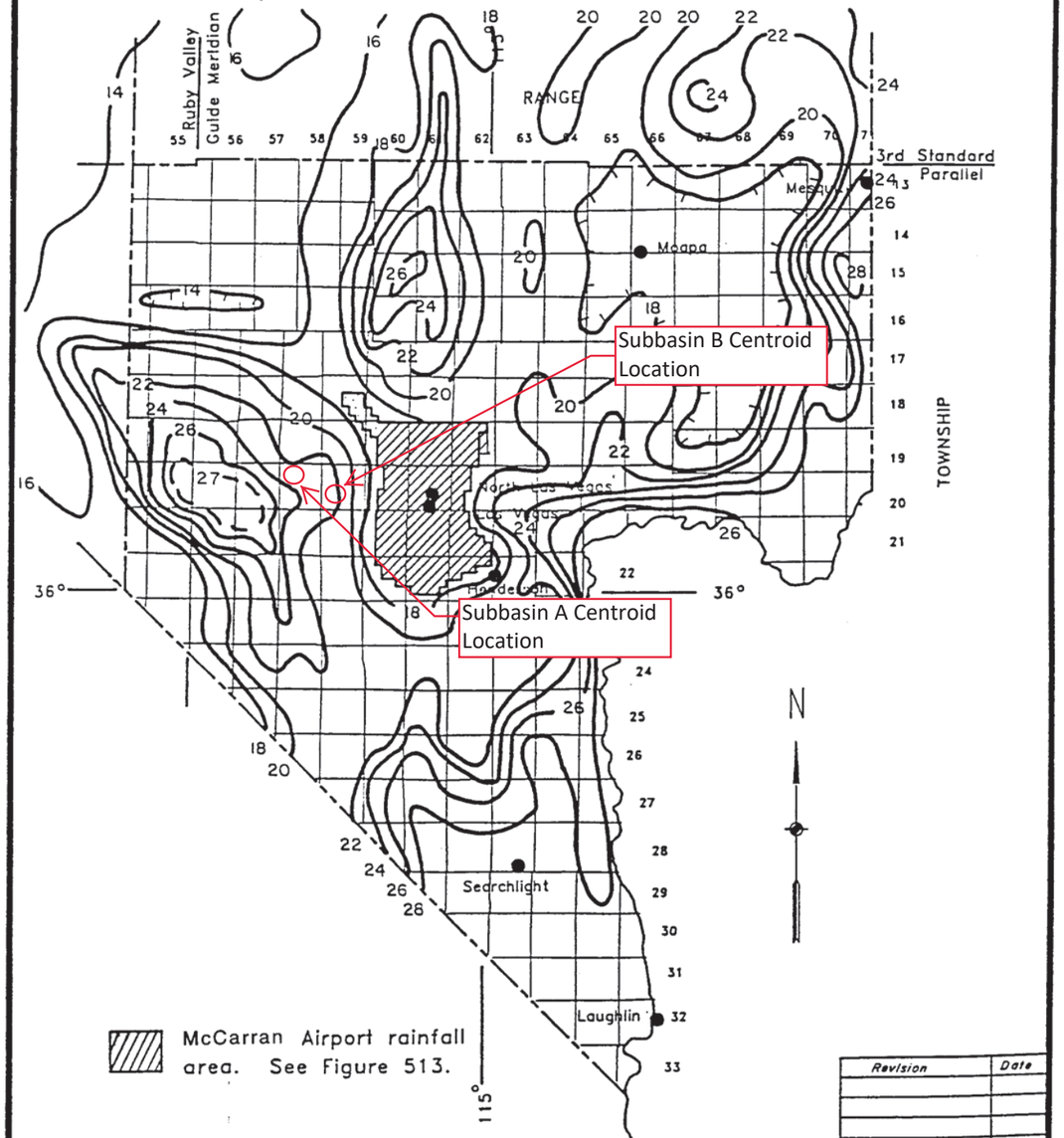
RAINFALL DEPTH-DURATION-FREQUENCY
10-YEAR, 6-HOUR
(DEPTHS IN TENTHS OF INCHES)



Revision	Date

WRC ENGINEERING | REFERENCE: NOAA ATLAS 2, VOLUME VII NEVADA, 1973 | FIGURE 503

RAINFALL DEPTH-DURATION-FREQUENCY
50-YEAR, 6-HOUR
(DEPTHS IN TENTHS OF INCHES)



Revision	Date

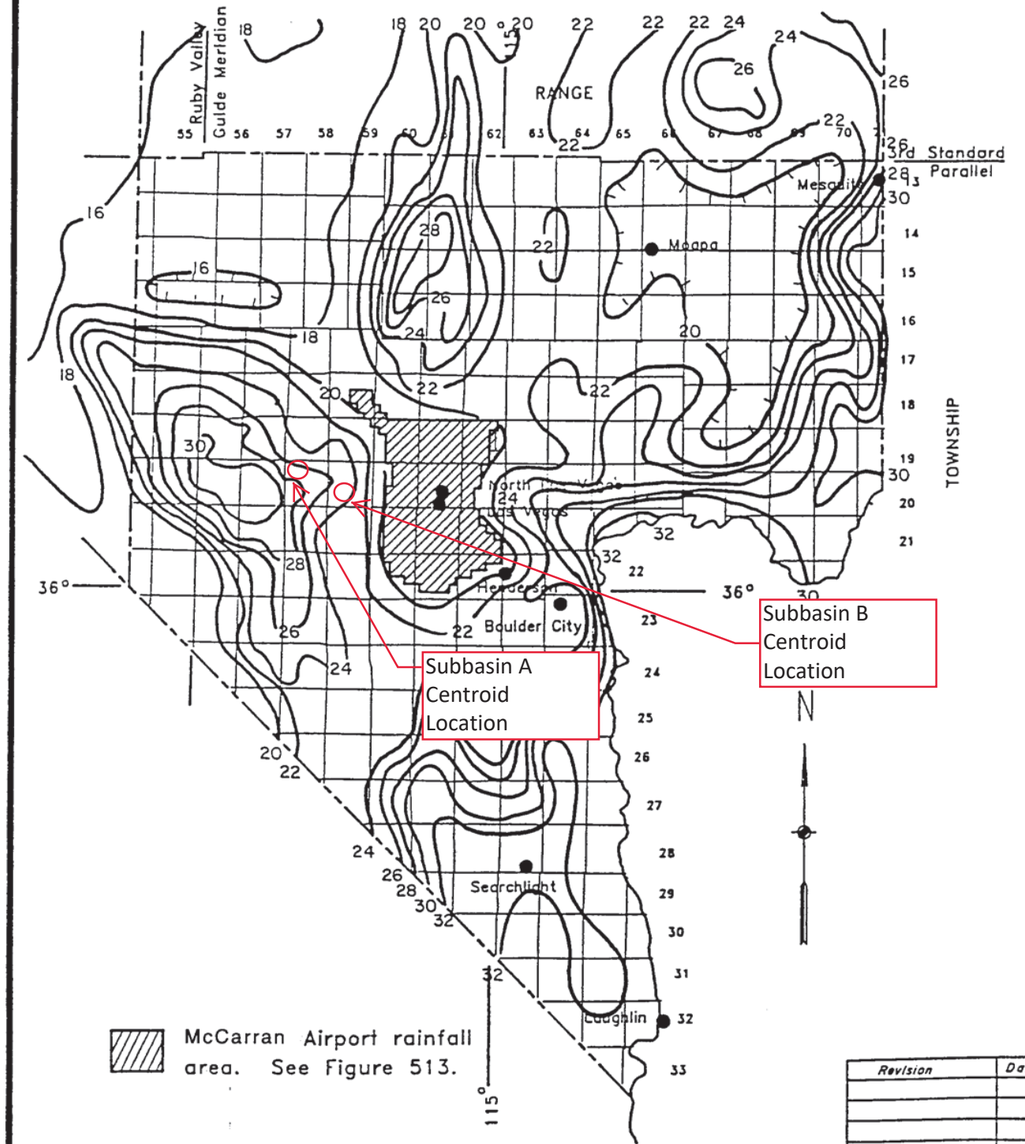
WRC ENGINEERING

REFERENCE:
NOAA ATLAS 2, VOLUME VII NEVADA, 1973

FIGURE 505

HYDROLOGIC CRITERIA AND DRAINAGE DESIGN MANUAL

RAINFALL DEPTH-DURATION-FREQUENCY
100-YEAR, 6-HOUR
(DEPTHS IN TENTHS OF INCHES)



Revision	Date

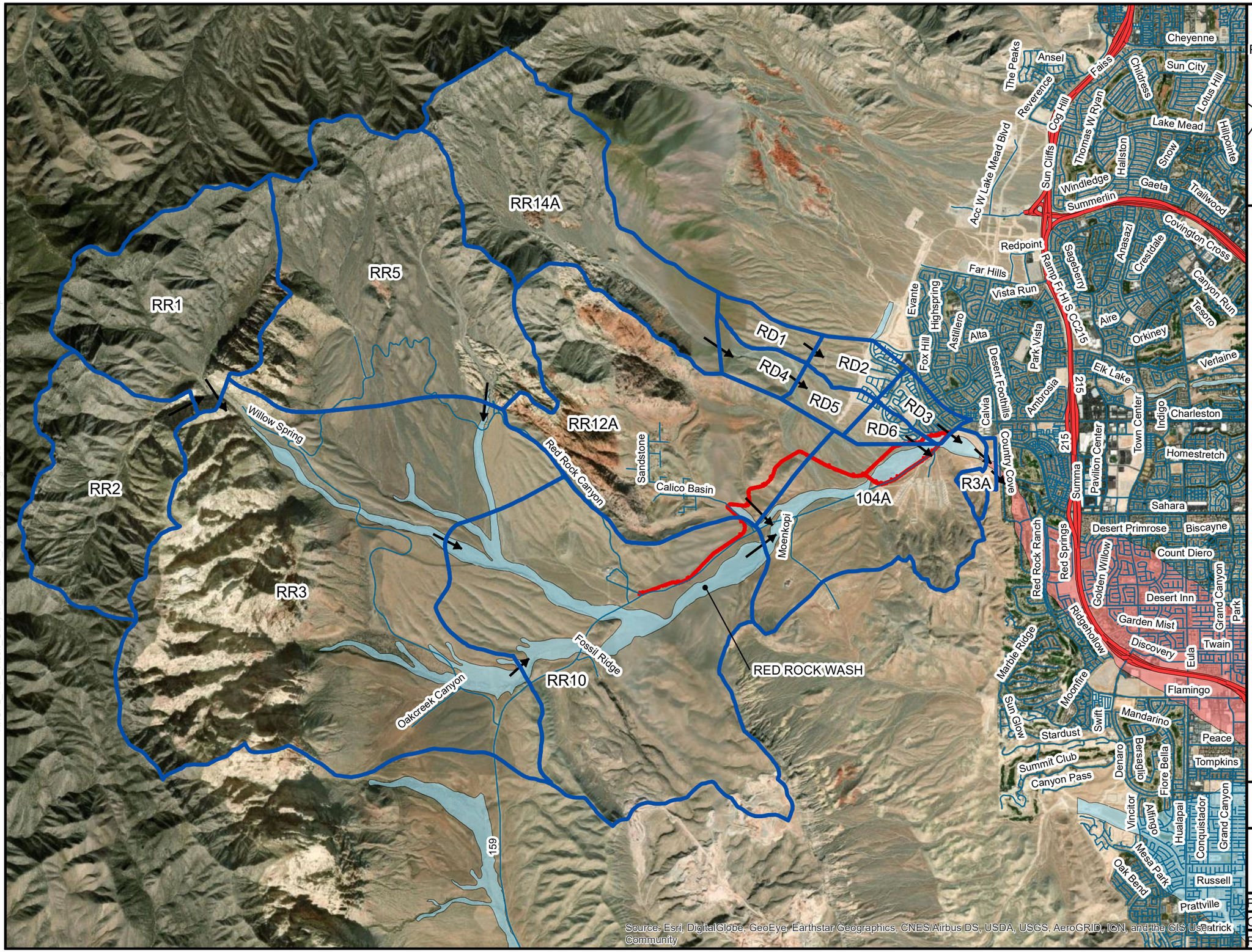
WRC ENGINEERING

REFERENCE:
NOAA ATLAS 2, VOLUME VII NEVADA, 1973

FIGURE 506

Appendix B
Hydrologic Analysis

B.1 Subbasin Maps



H:\CFL_Red_Rock_Canyon_Path345_Hydraulic4_Design\GIS\Red Rock Wash Subbasin Map.mxd

FHWA - CFLHD	*Figure B.1 Red Rock Wash Subbasin Map*
Hydraulic Recommendations Report	
PN: WXXY4000	DATE: 08/31/20
CREATED BY: DB	Jacobs
REVIEWED BY: DB	

SUBBASIN A

SUBBASIN B

RED ROCK WASH

White Rock Trailhead

Willow Spring

Red Rock Canyon

Fossil Ridge

Moenkopi

Calico Basin

Sandstone

159

Gilmore

Hamdem

Gowan

Cliff Shadows

Shadow Peak

Hualapai

Cheyenne

Folsom

Sun City

Byron

Ansel

The Peaks

Organic

Reverence

Faiss

Childress

Button Willow

Clear Meadows

Lake Mead

Acc W Lake Mead Blvd

Lauren

Airlands

Spring Water

Snow

Sun Cliffs

Hallston

Sondrio

Trailwood

Clarion

Summerlin

Crestdale

Jacob

Anime

Chamboile

Anasazi

Banbury Cross

Sagebery

Laurelglen

Silver Grove

Red Canvas

Mirada

Carriage Hills

Ramp Fr Hl S CC215

Far Hills

Cameo

Evante

Elder View

Antelope Ridge

Orazio

Aire

Orkiney

Summit Canyon

Astillero

Alta

Park Vista

Artola

Elk Lake

Point Sierra

Fox Hill

Tandoori

Desert Foothills

Vista Run

Willits

Crossbridge

Desert Sunrise

Ambrosia

Park Run

Charleston

Skyracer

Sky Vista

CLARK COUNTY

Pavilion Center

City Park

Town Center

Sagemont

215

Orchard Mist

Alcova Ridge

Summa

Homestretch

Miners Gulch

La Madre Mountain

Sahara

Desert Primrose

Biscayne

Red Arrow

Red Rock Ranch

Red Springs

Sunblower

Realm

Golden Willow

Hualapai

Lake West

Squire

Desert Inn

Marble Ridge

Ridgehollow

Garden Mist

Twain

Discovery

Painted Feather

Hawk Ridge

Flamingo

Source: Esri, DigitalBox, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

PROJECT LOCATION

CITY OF LAS VEGAS

215

15

N

LEGEND:

- Subbasins
- Freeways
- Streets

Red Rock Trail

- Red Rock Trail

FEMA FLoodzone

- 0.2 PCT
- Zone A

0 2,500 5,000 7,500

Scale In Feet

FHWA - CFLHD	*Figure B.2 Culvert Subbasin Map*
Hydraulic Recommendations Report	
PN: WXXY4000	DATE: 08/31/20
CREATED BY: DB	Jacobs
REVIEWED BY: DB	

H:\CFL Red Rock Canyon Path345 Hydraulic\4 Design\GIS\Culvert Subbasin Map.mxd

B.2 Calculations

B.2.1 Curve Number Calculations

2018 LAS VEGAS VALLEY FLOOD CONTROL MASTER PLAN UPDATE - COMPOSITE CURVE NUMBER BREAKDOWN

WATERSHED	BASINID	LAND USE INDEX NUMBER	SOIL MAP UNIT #	SUBREGION CN	SUBREGION AREA (SQ FT)	SUBBASIN AREA (SQ FT)	PERCENT OF SUBBASIN	CUMULATIVE PERCENT	AREAL WEIGHTED CN	CUMULATIVE CN	COMPOSITE CN
Flamingo/Tropicana	104A	1	1151	78	24869480	94532479	26.3%	26.3%	20.52	20.52	
Flamingo/Tropicana	104A	1	1152	88	1992017	94532479	2.1%	28.4%	1.85	22.37	
Flamingo/Tropicana	104A	1	1155	88	13674687	94532479	14.5%	42.9%	12.73	35.10	
Flamingo/Tropicana	104A	1	1263	64	10542130	94532479	11.2%	54.0%	7.14	42.24	
Flamingo/Tropicana	104A	1	1360	85	28213179	94532479	29.8%	83.9%	25.37	67.61	
Flamingo/Tropicana	104A	1	1502	73	597919	94532479	0.6%	84.5%	0.46	68.07	
Flamingo/Tropicana	104A	1	1731	85	10432284	94532479	11.0%	95.5%	9.38	77.45	
Flamingo/Tropicana	104A	1	1732	87	2764126	94532479	2.9%	98.5%	2.54	80.00	
Flamingo/Tropicana	104A	7	1151	90	983615	94532479	1.0%	99.5%	0.94	80.93	
Flamingo/Tropicana	104A	7	1263	84	403277	94532479	0.4%	99.9%	0.36	81.29	
Flamingo/Tropicana	104A	7	1360	93	9568	94532479	0.0%	99.9%	0.01	81.30	
Flamingo/Tropicana	104A	7	1502	88	28922	94532479	0.0%	100.0%	0.03	81.33	
Flamingo/Tropicana	104A	12	1152	90	3473	94532479	0.0%	100.0%	0.00	81.33	
Flamingo/Tropicana	104A	12	1502	79	17801	94532479	0.0%	100.0%	0.01	81.34	**81.3**
Flamingo/Tropicana	R3A	1	1152	88	1112803	5183648	21.5%	21.5%	18.89	18.89	
Flamingo/Tropicana	R3A	1	1263	64	328804	5183648	6.3%	27.8%	4.06	22.95	
Flamingo/Tropicana	R3A	1	1360	85	3726363	5183648	71.9%	99.7%	61.10	84.05	
Flamingo/Tropicana	R3A	6	1152	91	10754	5183648	0.2%	99.9%	0.19	84.24	
Flamingo/Tropicana	R3A	6	1263	74	4924	5183648	0.1%	100.0%	0.07	84.31	**84.3**
Flamingo/Tropicana	RD1	1	1731	85	1228076	12023236	10.2%	10.2%	8.68	8.68	
Flamingo/Tropicana	RD1	2	1731	79	1199463	12023236	10.0%	20.2%	7.88	16.56	
Flamingo/Tropicana	RD1	5	1731	85	3427121	12023236	28.5%	48.7%	24.23	40.79	
Flamingo/Tropicana	RD1	6	1731	89	5903289	12023236	49.1%	97.8%	43.70	84.49	
Flamingo/Tropicana	RD1	9	1731	96	265287	12023236	2.2%	100.0%	2.12	86.61	**86.6**
Flamingo/Tropicana	RD2	1	1731	85	822667	13173710	6.2%	6.2%	5.31	5.31	
Flamingo/Tropicana	RD2	2	1731	79	164796	13173710	1.3%	7.5%	0.99	6.30	
Flamingo/Tropicana	RD2	6	1731	89	4813876	13173710	36.5%	44.0%	32.52	38.82	
Flamingo/Tropicana	RD2	7	1731	93	5235686	13173710	39.7%	83.8%	36.96	75.78	
Flamingo/Tropicana	RD2	8	1731	95	2036097	13173710	15.5%	99.2%	14.68	90.46	
Flamingo/Tropicana	RD2	9	1731	96	100588	13173710	0.8%	100.0%	0.73	91.20	**91.2**
Flamingo/Tropicana	RD3	1	1263	64	366980	9204776	4.0%	4.0%	2.55	2.55	
Flamingo/Tropicana	RD3	1	1731	85	3708	9204776	0.0%	4.0%	0.03	2.59	
Flamingo/Tropicana	RD3	2	1731	79	664769	9204776	7.2%	11.2%	5.71	8.29	
Flamingo/Tropicana	RD3	6	1502	80	242	9204776	0.0%	11.3%	0.00	8.29	
Flamingo/Tropicana	RD3	6	1731	89	336	9204776	0.0%	11.3%	0.00	8.30	
Flamingo/Tropicana	RD3	7	1263	84	131717	9204776	1.4%	12.7%	1.20	9.50	
Flamingo/Tropicana	RD3	7	1502	88	877935	9204776	9.5%	22.2%	8.39	17.89	
Flamingo/Tropicana	RD3	7	1731	93	7021167	9204776	76.3%	98.5%	70.94	88.83	
Flamingo/Tropicana	RD3	8	1731	95	137924	9204776	1.5%	100.0%	1.42	90.25	**90.3**
Flamingo/Tropicana	RD4	1	1360	85	5991172	11201600	53.5%	53.5%	45.46	45.46	
Flamingo/Tropicana	RD4	1	1731	85	4177014	11201600	37.3%	90.8%	31.70	77.16	
Flamingo/Tropicana	RD4	5	1731	85	869133	11201600	7.8%	98.5%	6.60	83.75	
Flamingo/Tropicana	RD4	6	1731	89	164281	11201600	1.5%	100.0%	1.31	85.06	**85.1**
Flamingo/Tropicana	RD5	1	1360	85	293904	10313627	2.8%	2.8%	2.42	2.42	
Flamingo/Tropicana	RD5	1	1731	85	3838641	10313627	37.2%	40.1%	31.64	34.06	
Flamingo/Tropicana	RD5	2	1731	79	236601	10313627	2.3%	42.4%	1.81	35.87	
Flamingo/Tropicana	RD5	5	1731	85	3264984	10313627	31.7%	74.0%	26.91	62.78	
Flamingo/Tropicana	RD5	6	1731	89	2002092	10313627	19.4%	93.4%	17.28	80.06	
Flamingo/Tropicana	RD5	7	1731	93	677403	10313627	6.6%	100.0%	6.11	86.16	**86.2**
Flamingo/Tropicana	RD6	1	1263	64	149847	6963475	2.2%	2.2%	1.38	1.38	
Flamingo/Tropicana	RD6	1	1731	85	377870	6963475	5.4%	7.6%	4.61	5.99	
Flamingo/Tropicana	RD6	2	1731	79	555470	6963475	8.0%	15.6%	6.30	12.29	
Flamingo/Tropicana	RD6	6	1731	89	1521010	6963475	21.8%	37.4%	19.44	31.73	
Flamingo/Tropicana	RD6	7	1731	93	4359278	6963475	62.6%	100.0%	58.22	89.95	**90.0**
Flamingo/Tropicana	RR1	1	2292	89	16361231	117787196	13.9%	13.9%	12.36	12.36	
Flamingo/Tropicana	RR1	1	2323	88	30007177	117787196	25.5%	39.4%	22.42	34.78	
Flamingo/Tropicana	RR1	1	2351	88	18431256	117787196	15.6%	55.0%	13.77	48.55	
Flamingo/Tropicana	RR1	1	2352	86	16517499	117787196	14.0%	69.0%	12.06	60.61	
Flamingo/Tropicana	RR1	1	2732	87	10290473	117787196	8.7%	77.8%	7.60	68.21	
Flamingo/Tropicana	RR1	1	2772	79	26179560	117787196	22.2%	100.0%	17.56	85.77	**85.8**
Flamingo/Tropicana	RR10	1	1151	78	16839510	244621219	6.9%	6.9%	5.37	5.37	
Flamingo/Tropicana	RR10	1	1155	88	12919330	244621219	5.3%	12.2%	4.65	10.02	
Flamingo/Tropicana	RR10	1	1263	64	228819	244621219	0.1%	12.3%	0.06	10.08	
Flamingo/Tropicana	RR10	1	1342	88	48600100	244621219	19.9%	32.1%	17.48	27.56	
Flamingo/Tropicana	RR10	1	1731	85	1366054	244621219	0.6%	32.7%	0.47	28.03	
Flamingo/Tropicana	RR10	1	1732	87	13805429	244621219	5.6%	38.3%	4.91	32.94	
Flamingo/Tropicana	RR10	1	2261	78	7152148	244621219	2.9%	41.3%	2.28	35.23	
Flamingo/Tropicana	RR10	1	2341	88	6195526	244621219	2.5%	43.8%	2.23	37.45	
Flamingo/Tropicana	RR10	1	2342	88	34982004	244621219	14.3%	58.1%	12.58	50.04	
Flamingo/Tropicana	RR10	1	2731	85	24053501	244621219	9.8%	67.9%	8.36	58.40	
Flamingo/Tropicana	RR10	1	2732	87	54044515	244621219	22.1%	90.0%	19.22	77.62	
Flamingo/Tropicana	RR10	3	1342	86	7020133	244621219	2.9%	92.9%	2.47	80.09	
Flamingo/Tropicana	RR10	3	1645	82	5760945	244621219	2.4%	95.2%	1.93	82.02	
Flamingo/Tropicana	RR10	3	2342	86	10340964	244621219	4.2%	99.5%	3.64	85.65	
Flamingo/Tropicana	RR10	7	1151	90	1305340	244621219	0.5%	100.0%	0.48	86.13	
Flamingo/Tropicana	RR10	7	1732	94	6901	244621219	0.0%	100.0%	0.00	86.14	**86.1**
Flamingo/Tropicana	RR12A	1	1151	78	5660	162283076	0.0%	0.0%	0.00	0.00	
Flamingo/Tropicana	RR12A	1	1263	64	669458	162283076	0.4%	0.4%	0.26	0.27	
Flamingo/Tropicana	RR12A	1	1360	85	12650583	162283076	7.8%	8.2%	6.63	6.89	
Flamingo/Tropicana	RR12A	1	1640	90	19572093	162283076	12.1%	20.3%	10.85	17.75	
Flamingo/Tropicana	RR12A	1	1731	85	24087032	162283076	14.8%	35.1%	12.62	30.36	
Flamingo/Tropicana	RR12A	1	1732	87	32089059	162283076	19.8%	54.9%	17.20	47.57	
Flamingo/Tropicana	RR12A	1	2294	90	38496347	162283076	23.7%	78.6%	21.35	68.92	
Flamingo/Tropicana	RR12A	1	2320	88	23314145	162283076	14.4%	93.0%	12.64	81.56	
Flamingo/Tropicana	RR12A	1	2731	85	4858736	162283076	3.0%	96.0%	2.54	84.10	
Flamingo/Tropicana	RR12A	1	2732	87	5883118	162283076	3.6%	99.6%	3.15	87.26	
Flamingo/Tropicana	RR12A	7	1731	93	477135	162283076	0.3%	99.9%	0.27	87.53	
Flamingo/Tropicana	RR12A	7	1732	94	178797	162283076	0.1%	100.0%	0.10	87.63	
Flamingo/Tropicana	RR12A	7	2731	93	913	162283076	0.0%	100.0%	0.00	87.63	**87.6**

Flamingo/Tropicana Watershed

2018 LAS VEGAS VALLEY FLOOD CONTROL MASTER PLAN UPDATE - COMPOSITE CURVE NUMBER BREAKDOWN

WATERSHED	BASINID	LAND USE INDEX NUMBER	SOIL MAP UNIT #	SUBREGION CN	SUBREGION AREA (SQ FT)	SUBBASIN AREA (SQ FT)	PERCENT OF SUBBASIN	CUMULATIVE PERCENT	AREAL WEIGHTED CN	CUMULATIVE CN	COMPOSITE CN
Flamingo/Tropicana	RR14A	1	1323	88	16528	128282248	0.0%	0.0%	0.01	0.01	
Flamingo/Tropicana	RR14A	1	1360	85	5024050	128282248	3.9%	3.9%	3.33	3.34	
Flamingo/Tropicana	RR14A	1	1640	90	3578623	128282248	2.8%	6.7%	2.51	5.85	
Flamingo/Tropicana	RR14A	1	1731	85	14795810	128282248	11.5%	18.3%	9.80	15.65	
Flamingo/Tropicana	RR14A	1	2294	90	7738383	128282248	6.0%	24.3%	5.43	21.08	
Flamingo/Tropicana	RR14A	1	2320	88	12783317	128282248	10.0%	34.3%	8.77	29.85	
Flamingo/Tropicana	RR14A	1	2323	88	61846166	128282248	48.2%	82.5%	42.43	72.28	
Flamingo/Tropicana	RR14A	1	2351	88	4923734	128282248	3.8%	86.3%	3.38	75.66	
Flamingo/Tropicana	RR14A	1	2731	85	17575638	128282248	13.7%	100.0%	11.65	87.30	**87.3**
Flamingo/Tropicana	RR2	1	2292	89	19639842	98895524	19.9%	19.9%	17.67	17.67	
Flamingo/Tropicana	RR2	1	2323	88	10961705	98895524	11.1%	30.9%	9.75	27.43	
Flamingo/Tropicana	RR2	1	2352	86	58911437	98895524	59.6%	90.5%	51.23	78.66	
Flamingo/Tropicana	RR2	1	2772	79	9382539	98895524	9.5%	100.0%	7.49	86.15	**86.2**
Flamingo/Tropicana	RR3	1	2292	89	187068417	417711239	44.8%	44.8%	39.86	39.86	
Flamingo/Tropicana	RR3	1	2294	90	14954	417711239	0.0%	44.8%	0.00	39.86	
Flamingo/Tropicana	RR3	1	2342	88	9442096	417711239	2.3%	47.0%	1.99	41.85	
Flamingo/Tropicana	RR3	1	2352	86	20086979	417711239	4.8%	51.9%	4.14	45.99	
Flamingo/Tropicana	RR3	1	2411	83	67889102	417711239	16.3%	68.1%	13.49	59.48	
Flamingo/Tropicana	RR3	1	2731	85	36920140	417711239	8.8%	76.9%	7.51	66.99	
Flamingo/Tropicana	RR3	1	2732	87	96289551	417711239	23.1%	100.0%	20.05	87.04	**87.0**
Flamingo/Tropicana	RR5	1	2292	89	26775869	198839822	13.5%	13.5%	11.98	11.98	
Flamingo/Tropicana	RR5	1	2294	90	11804532	198839822	5.9%	19.4%	5.34	17.33	
Flamingo/Tropicana	RR5	1	2320	88	26535047	198839822	13.3%	32.7%	11.74	29.07	
Flamingo/Tropicana	RR5	1	2323	88	48557651	198839822	24.4%	57.2%	21.49	50.56	
Flamingo/Tropicana	RR5	1	2351	88	16802923	198839822	8.5%	65.6%	7.44	58.00	
Flamingo/Tropicana	RR5	1	2731	85	4014400	198839822	2.0%	67.6%	1.72	59.71	
Flamingo/Tropicana	RR5	1	2732	87	64349400	198839822	32.4%	100.0%	28.16	87.87	**87.9**
Flamingo/Tropicana	SUB-A	1	1360	85	10248161	127245188	8.1%	8.1%	6.85	6.85	
Flamingo/Tropicana	SUB-A	1	1640	90	3562221	127245188	2.8%	10.9%	2.52	9.37	
Flamingo/Tropicana	SUB-A	1	1731	85	9514783	127245188	7.5%	18.3%	6.36	15.72	
Flamingo/Tropicana	SUB-A	1	2294	90	7794868	127245188	6.1%	24.5%	5.51	21.23	
Flamingo/Tropicana	SUB-A	1	2320	88	12689456	127245188	10.0%	34.4%	8.78	30.01	
Flamingo/Tropicana	SUB-A	1	2323	88	61778265	127245188	48.6%	83.0%	42.72	72.73	
Flamingo/Tropicana	SUB-A	1	2351	88	4904123	127245188	3.9%	86.8%	3.39	76.13	
Flamingo/Tropicana	SUB-A	1	2731	85	16753311	127245188	13.2%	100.0%	11.19	87.32	**87.3**
Flamingo/Tropicana	SUB-B	1	1731	85	17858764	18823462	94.9%	94.9%	80.64	80.64	
Flamingo/Tropicana	SUB-B	1	2731	85	802251	18823462	4.3%	99.1%	3.62	84.27	
Flamingo/Tropicana	SUB-B	1	2320	88	162447	18823462	0.9%	100.0%	0.76	85.03	**85.0**

Curve Number Matrix

SOIL MAP UNIT	HYDROLOGIC SOIL GROUP					LAND USE CATEGORY INDEX NUMBER												
	A	B	C	D	ROCK OUTCROP	1	2	3	4	5	6	7	8	9	10	11	12	13
	CN --->					63	47	57	60	62	74	84	89	92	86	92	71	30
		CN --->				77	66	73	74	76	83	89	93	94	91	94	81	30
			CN --->			85	77	82	83	84	88	92	95	95	93	95	87	30
				CN --->		88	83	86	87	88	91	94	96	96	95	96	90	30
					CN --->	90	90	92	92	92	94	96	96	97	96	97	94	30
1151	41	0	0	59	0	78.0	68.0	74.0	76.0	77.0	84.0	90.0	93.0	94.0	91.0	94.0	82.0	30.0
1152	0	0	0	100	0	88.0	83.0	86.0	87.0	88.0	91.0	94.0	96.0	96.0	95.0	96.0	90.0	30.0
1155	0	0	0	100	0	88.0	83.0	86.0	87.0	88.0	91.0	94.0	96.0	96.0	95.0	96.0	90.0	30.0
1263	95	0	0	5	0	64.0	48.0	59.0	61.0	64.0	74.0	84.0	90.0	92.0	86.0	92.0	72.0	30.0
1323	0	0	0	85	15	88.0	84.0	87.0	88.0	88.0	91.0	94.0	96.0	96.0	95.0	96.0	91.0	30.0
1342	0	7	0	78	15	88.0	83.0	86.0	87.0	87.0	91.0	94.0	96.0	96.0	95.0	96.0	90.0	30.0
1360	15	0	0	35	50	85.0	81.0	84.0	85.0	86.0	90.0	93.0	95.0	96.0	94.0	96.0	89.0	30.0
1502	60	0	0	40	0	73.0	61.0	69.0	71.0	72.0	80.0	88.0	92.0	93.0	89.0	93.0	79.0	30.0
1640	0	0	0	10	90	90.0	90.0	91.0	91.0	92.0	94.0	96.0	96.0	97.0	96.0	97.0	94.0	30.0
1645	0	0	100	0	0	85.0	77.0	82.0	83.0	84.0	88.0	92.0	95.0	95.0	93.0	95.0	87.0	30.0
1731	10	2	0	88	0	85.0	79.0	83.0	84.0	85.0	89.0	93.0	95.0	96.0	94.0	96.0	88.0	30.0
1732	3	0	0	96	1	87.0	82.0	85.0	86.0	87.0	90.0	94.0	95.0	96.0	94.0	96.0	89.0	30.0
2261	41	0	0	59	0	78.0	68.0	74.0	76.0	77.0	84.0	90.0	93.0	94.0	91.0	94.0	82.0	30.0
2292	0	0	0	35	65	89.0	88.0	90.0	90.0	91.0	93.0	95.0	96.0	97.0	95.0	97.0	93.0	30.0
2294	0	0	0	10	90	90.0	90.0	91.0	91.0	92.0	94.0	96.0	96.0	97.0	96.0	97.0	94.0	30.0
2320	0	2	0	83	15	88.0	83.0	87.0	87.0	88.0	91.0	94.0	96.0	96.0	95.0	96.0	90.0	30.0
2323	0	0	0	85	15	88.0	84.0	87.0	88.0	88.0	91.0	94.0	96.0	96.0	95.0	96.0	91.0	30.0
2341	0	0	3	93	4	88.0	83.0	86.0	87.0	88.0	91.0	94.0	96.0	96.0	95.0	96.0	90.0	30.0
2342	0	7	0	78	15	88.0	83.0	86.0	87.0	87.0	91.0	94.0	96.0	96.0	95.0	96.0	90.0	30.0
2351	0	0	0	96	4	88.0	83.0	86.0	87.0	88.0	91.0	94.0	96.0	96.0	95.0	96.0	90.0	30.0
2352	0	25	0	60	15	86.0	80.0	84.0	84.0	85.0	89.0	93.0	95.0	96.0	94.0	96.0	88.0	30.0
2411	8	0	91	1	0	83.0	75.0	80.0	81.0	82.0	87.0	92.0	94.0	95.0	93.0	95.0	86.0	30.0
2731	10	2	0	88	0	85.0	79.0	83.0	84.0	85.0	89.0	93.0	95.0	96.0	94.0	96.0	88.0	30.0
2732	3	0	0	96	1	87.0	82.0	85.0	86.0	87.0	90.0	94.0	95.0	96.0	94.0	96.0	89.0	30.0
2772	0	85	0	12	3	79.0	69.0	75.0	76.0	78.0	84.0	90.0	93.0	94.0	91.0	94.0	83.0	30.0

B.2.2 Time Of Concentration Calculations

HYDROLOGIC CRITERIA AND DRAINAGE DESIGN MANUAL

TIME OF CONCENTRATION FOR BASINS LESS THAN 1 SQ. MI.

2018 Las Vegas Valley Master Plan Update
Flamingo/Tropicana Watershed
Ultimate Conditions
Red Rock Trail FY19-87

SUB-BASIN DATA						INITIAL / OVERLAND TIME (Ti)			TRAVEL TIME (Tt)					Tc	Tc Check	Tlag	REMARKS
Basin ID	DEV./EX. (D or E)	CN	K	AREA Ac	AREA Mi^2	INITIAL LENGTH Feet	SLOPE %	Ti Min	TRAVEL LENGTH Feet	SLOPE %	V1 VELOCITY FPS	V2 VELOCITY FPS	Tt Min	Min	Tc = (L/180)+10 Min	Tlag= 0.6Tc/60 Hours	RAINFALL Q100 Inches
R3A	E	84.3	0.7229	119.00	0.186	500	48.0	4.2	3090	8.9	4.4	8.8	6.8	11.0	N/A	**0.110**	3.28
RD1	D	86.6	0.7532	276.02	0.431	100	1.0	6.2	6544	7.8	5.6	8.6	13.3	19.5	46.9	**0.195**	3.51
RD2	D	91.2	0.8138	302.43	0.473	100	1.0	5.2	5089	6.4	5.1	7.7	11.5	16.7	38.8	**0.167**	3.42
RD3	D	90.3	0.8013	211.31	0.330	100	1.0	5.4	4488	5.1	4.6	6.9	11.4	16.8	35.5	**0.168**	3.36
RD4	D	85.1	0.7328	257.15	0.402	100	1.0	6.6	5532	8.1	5.8	8.7	11.1	17.7	41.3	**0.177**	3.49
RD5	D	86.2	0.7474	236.77	0.370	100	1.0	6.3	4502	6.7	5.2	7.9	10.0	16.3	35.6	**0.163**	3.42
RD6	D	90.0	0.7974	159.86	0.250	100	1.0	5.4	4384	5.7	4.8	7.3	10.6	16.0	34.9	**0.160**	3.36
SUB-B	D	85.0	0.7320	432.00	0.675	350	25.0	4.2	20150	8.0	5.7	8.7	39.3	43.5	123.9	**0.435**	3.50

Tc = Ti + Tt Tlag = 0.6 Tc
Ti = 1.8 (1.1 - K) L^1/2 / S^1/3
K = 0.0132 (CN) - 0.39
Tc Check = L/180+10

For the travel time (Tt) calculations,
V1 applies to the first 500 feet of travel distance;
V2 applies to the remaining travel distance.

Existing V1 = 14.8*(S/100)^1/2 Developed V1 = 20.2*(S/100)^1/2
Existing V2 = 29.4*(S/100)^1/2 Developed V2 = 30.6*(S/100)^1/2

REFERENCE : **STANDARD FORM 4**

TIME OF CONCENTRATION FOR BASINS GREATER THAN 1 SQ. MI.

Basin	S (ave.)	L (total)	LC (Centroid)	Kn	$TLAG_{USBR}$
104A	0.026	18,080	9,275	0.050	0.801
RR1	0.185	14,053	5,262	0.050	0.443
RR10	0.032	23,225	10,665	0.050	0.882
RR12A	0.073	21,150	9,906	0.050	0.728
RR14A	0.144	22,219	13,097	0.050	0.725
RR2	0.111	14,871	7,211	0.050	0.545
RR3	0.115	25,571	11,753	0.050	0.761
RR5	0.165	19,174	9,862	0.050	0.615
SUB-A	0.116	34,960	22,401	0.050	1.043

L = Length of Longest Watercourse (feet)
Lc = Length Along Longest Watercourse measured Upstream to a Point Opposite to the Centroid of the Basin
Kn = Manning's Roughness Factor for Basin Channels
S = Average Slope of the Longest Watercourse (feet/feet)

Tlag = 20*Kn (L*Lc/S^0.5)^0.33 (hours)

REFERENCE : **USBR Method**

Project: Red Rock Trail
BY: DB
DATE: 8/5/20

Jacobs

B.2.3 Precipitation Calculations

NOAA Atlas 2 Precipitation Values 6-hour, inches)								
Basin	**2 Year**	**5 Year**	**10 Year**	**25 Year**	**50 Year**	**100 Year**	**200 Year**	**500 Year**
R3A	1.04	1.35	1.56	1.83	2.11	2.29	NA	NA
RD1	1.12	1.45	1.69	1.94	2.27	2.45	NA	NA
RD2	1.08	1.40	1.61	1.88	2.23	2.39	NA	NA
RD3	1.06	1.38	1.58	1.85	2.20	2.35	NA	NA
RD4	1.12	1.45	1.69	1.94	2.27	2.44	NA	NA
RD5	1.08	1.40	1.61	1.88	2.23	2.39	NA	NA
RD6	1.06	1.38	1.59	1.85	2.20	2.35	NA	NA
104A	0.96	1.38	1.57	1.86	2.15	2.34	NA	NA
RR1	1.34	1.70	1.99	2.31	2.58	2.91	NA	NA
RR10	1.08	1.40	1.69	1.95	2.20	2.41	NA	NA
RR12A	1.14	1.46	1.70	1.98	2.30	2.47	NA	NA
RR14A	1.23	1.58	1.76	2.10	2.36	2.62	NA	NA
RR2	1.34	1.75	2.02	2.35	2.62	2.92	NA	NA
RR3	1.20	1.60	1.85	2.17	2.40	2.67	NA	NA
RR5	1.25	1.62	1.85	2.16	2.49	2.73	NA	NA
SUB A	-	-	1.75	-	2.30	2.62	NA	NA
SUB B	-	-	1.60	-	2.20	2.45	NA	NA

Precipitation Values with Adjustments									
Basin	**2 Year**	**5 Year**	**10 Year**	**25 Year**	**50 Year**	**100 Year**	**200 Year**	**500 Year**	**Logrithmic Trendline**
R3A	1.04	1.57	1.93	2.43	2.93	3.28	*3.68*	*4.21*	*y = 0.5766ln(x) + 0.6274*
RD1	1.12	1.68	2.10	2.58	3.16	3.51	*3.94*	*4.50*	*y = 0.6148ln(x) + 0.6828*
RD2	1.08	1.62	2.00	2.50	3.10	3.42	*3.85*	*4.40*	*y = 0.6067ln(x) + 0.6345*
RD3	1.06	1.60	1.96	2.46	3.06	3.36	*3.79*	*4.33*	*y = 0.5973ln(x) + 0.6229*
RD4	1.12	1.68	2.10	2.58	3.16	3.49	*3.93*	*4.49*	*y = 0.6113ln(x) + 0.689*
RD5	1.08	1.62	2.00	2.50	3.10	3.42	*3.85*	*4.40*	*y = 0.6067ln(x) + 0.6345*
RD6	1.06	1.60	1.97	2.46	3.06	3.36	*3.79*	*4.34*	*y = 0.5969ln(x) + 0.6263*
104A	0.96	1.60	1.95	2.47	2.99	3.34	*3.78*	*4.33*	*y = 0.6062ln(x) + 0.5674*
RR1	1.34	1.97	2.47	3.07	3.59	4.16	*4.60*	*5.25*	*y = 0.7128ln(x) + 0.825*
RR10	1.08	1.62	2.10	2.59	3.06	3.44	*3.88*	*4.43*	*y = 0.606ln(x) + 0.6648*
RR12A	1.14	1.69	2.11	2.63	3.20	3.53	*3.98*	*4.55*	*y = 0.6199ln(x) + 0.6953*
RR14A	1.23	1.83	2.18	2.79	3.28	3.75	*3.88*	*4.43*	*y = 0.606ln(x) + 0.6648*
RR2	1.34	2.03	2.50	3.13	3.64	4.18	*4.65*	*5.31*	*y = 0.7174ln(x) + 8497*
RR3	1.20	1.86	2.29	2.89	3.34	3.82	*4.27*	*4.88*	*y = 0.6623ln(x) + 0.7616*
RR5	1.25	1.88	2.29	2.87	3.46	3.91	*4.36*	*4.98*	*y = 0.6794ln(x) + 0.7608*
SUB A	-	-	2.17	-	3.20	4.91	*NA*	*NA*	*NA*
SUB B	-	-	1.98	-	3.06	5.91	*NA*	*NA*	*NA*

B.3 HEC-1 Models

Basin		Flowrates - 6 Hour Storm							Storm	Comments
ID	Area	2-Year	10-Year	25-Year	50-Year	100-Year	200-Year	500-Year	Distribution	
R3A	0.19	139	119	179	209	286	337	408	SDN3	
RD1	0.43	89	310	435	591	687	806	961	SDN3	
RD2	0.47	164	446	606	800	904	1042	1219	SDN3	
RD3	0.33	100	287	397	532	599	696	817	SDN3	
RD4	0.40	71	278	397	546	633	750	900	SDN3	
RD5	0.37	70	262	381	529	609	717	857	SDN3	
RD6	0.25	74	219	302	405	457	531	625	SDN3	
104A	3.39	65	587	978	1404	1709	2105	2613	SDN3	
RR1	4.22	675	1730	3263	4123	5079	5824	6946	SDN3	
RR10	8.77	432	1970	2849	3730	4459	5315	6398	SDN4	
RR12A	5.82	568	1901	2825	3797	4370	5157	5929	SDN3	
RR14A	4.60	527	1634	2440	3108	3737	3940	4710	SDN3	
RR2	3.55	534	1813	2589	3234	3911	4532	6398	SDN3	
RR3	14.98	941	3632	5334	6652	8081	9434	11277	SDN5	
RR5	7.13	954	3054	4349	5702	6746	7796	9246	SDN3	
SUB-A	4.57	-	1252	-	2311	2901	-	-	SDN3	Box Culvert A
SUB-B	0.68	-	270	-	563	659	-	-	SDN3	Box Culvert B

Combination Point		Flowrates - 6 Hour Storm							Storm	Comments
ID	Area	2-Year	10-Year	25-Year	50-Year	100-Year	200-Year	500-Year	Distribution	
CRR2	7.77	1102	3286	5488	6939	8532	9836	11735	SDN3	
CRR3	29.89	1777	6900	10168	13019	15876	18510	22190	SDN5	
CRR10	38.66	1668	7066	10479	13536	16516	19401	23387	SDN5	
C104A	47.87	1867	7800	10795	15101	17209	20301	24518	SDN5	Upper bridge design flow
CRD2	0.90	228	698	973	1311	1506	1753	2077	SDN3	
CRD3	1.23	295	914	1272	1691	1931	2257	2682	SDN3	
CRD4	5.00	528	1656	2473	3161	3822	4019	4808	SDN3	
CRD5	5.37	537	1687	2518	3228	3899	4113	4923	SDN3	
CRD6	5.62	543	1714	2547	3266	3945	4170	4993	SDN3	
INRR	54.73	1492	6909	10490	13851	16935	19953	24227	SDN5	Inflow into Red Rock Detention Basin - lower bridge design flow
CR3A	54.92	87	160	182	188	210	231	257	SDN5	

Notes

Flows were calculated using NOAA Atlas 2 and adjusted per CCRFCD HCDDM Table 501

B.3.1 2-year_FLAM3A

```
1****************************************
 *                                      *
 *   FLOOD HYDROGRAPH PACKAGE  (HEC-1)  *
 *              JUN   1998              *
 *           VERSION 4.1                *
 *                                      *
 *  RUN DATE   20MAY20  TIME  09:36:11  *
 *                                      *
 ****************************************
```

```
****************************************
*                                      *
*    U.S. ARMY CORPS OF ENGINEERS      *
*    HYDROLOGIC ENGINEERING CENTER     *
*         609 SECOND STREET            *
*       DAVIS, CALIFORNIA 95616        *
*           (916) 756-1104             *
*                                      *
****************************************
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```
X     X  XXXXXXX   XXXXX           X
X     X  X        X     X         XX
X     X  X        X               X
XXXXXXX  XXXX     X        XXXXX  X
X     X  X        X               X
X     X  X        X     X         X
X     X  XXXXXXX   XXXXX          XXX
```

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL   LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM


```
          LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

                    *DIAGRAM
 *** FREE ***
               1    ID   RED ROCK TRAIL TO FY19-87
               2    ID   US FEDERAL HIGHWAY ADMINISTRATION
               3    ID   PN WXXY4000
               4    ID
               5    ID   HEC-1 MODEL TAKEN FROM CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT (CCRFCD)
               6    ID   2018 MASTER PLAN UPDATE
               7    ID   FLAMINGO / TROPICANA WASHES WATERSHED
               8    ID   RECOMMENDED DRAINAGE SYSTEM WITH ULTIMATE DEVELOPMENT
               9    ID   INPUT FILE = FLAM3A.DAT
              10    ID   INPUT FILE DATE = MAY 2020
              11    ID   PRECIPITATION VALUES TAKEN FROM NOAA ATLAS 2 &
              12    ID   ADJUSTED PER CCRFCD HYDRAULIC CRITERIA & DRAINAGE DESIGN MANUAL TABLE 501
              13    ID   DESIGN STORM = 2-YEAR, 6-HOUR STORM
              14    ID   STORM DISTRIBUTION = SDN3
              15    ID   STORM CENTERING = SERIES A: REGIONAL DETENTION BASIN FLOWS NOT DIVERTED OUT
              16    ID   MODELED BY JACOBS (DAVE BERGH, PE)
              17    ID
              18    ID   JR CARDS CONTAIN DARFS BASED ON THE FOLLOWING VALUES:
              19    ID
              20    ID         AREA    DARF
              21    ID         SQ.MI.
              22    ID                 SDN 3   SDN 4   SDN 5
              23    ID         0 - 0.5 0.990
              24    ID         0.5 - 1 0.975
              25    ID         1 - 2   0.950
              26    ID         2 - 3   0.925
              27    ID         3 - 4   0.915
              28    ID         4 - 5   0.908
              29    ID         5 - 6   0.903
              30    ID         6 - 7   0.895
              31    ID         7 - 8   0.885
              32    ID         8 - 9           0.875
              33    ID         9 - 10          0.865
              34    ID         10 - 11         0.857
              35    ID         11 - 12         0.850
              36    ID         12 - 16                 0.832
              37    ID         16 - 20                 0.804
              38    ID         20 - 30                 0.765
              39    ID         30 - 40                 0.725
              40    ID         40 - 50                 0.695
              41    ID         50 - 100                0.640
              42    ID         100 - 150               0.580
              43    ID         150 - 200               0.530
              44    ID
              45    IT      5       0       0     300
              46    IO      5       0       0
              47    IN      5       0       0
              48    JR    PREC    0.99   0.975    0.95   0.925   0.915   0.908   0.903   0.895   0.885
                    *
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```
          LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

              49    KK     RR1
              50    BA   4.225
              51    PB    1.34
              52    PC   0.000   0.020   0.057   0.070   0.087   0.108   0.124   0.130   0.130   0.130
              53    PC   0.130   0.130   0.130   0.133   0.140   0.142   0.148   0.158   0.172   0.181
              54    PC   0.190   0.197   0.199   0.200   0.201   0.204   0.214   0.229   0.241   0.249
              55    PC   0.251   0.256   0.270   0.278   0.281   0.283   0.295   0.322   0.352   0.409
              56    PC   0.499   0.590   0.710   0.744   0.781   0.812   0.819   0.835   0.851   0.856
              57    PC   0.860   0.868   0.876   0.888   0.910   0.926   0.937   0.950   0.970   0.976
              58    PC   0.982   0.985   0.987   0.989   0.990   0.993   0.993   0.994   0.995   0.998
              59    PC   0.998   0.999   1.000
              60    LS       0    85.8
              61    UD   0.443
                    *
              62    KK     RR2
              63    BA   3.547
              64    PB    1.34
              65    LS       0    86.2
              66    UD   0.545
                    *
              67    KK    RRR2
              68    KM   MUSKINGUM ROUTING UNSTABLE - USED MUSKINGUM-CUNGE
              69    KM   NATURAL WASH
              70    RD    1700   0.076    0.04       0    TRAP     100       2
                    *
              71    KK    CRR2
              72    KM   COMBINE RR1 AND RRR2
              73    HC       2
                    *
              74    KK   RCRR2
              75    KM   ROUTE CRR2 TO CRR3
              76    KM   NATURAL WASH
              77    KM   TRAVEL LENGTH = 15850
              78    KM   SLOPE = 0.043
              79    KM   N = 0.04
              80    KM   HYDRAULIC RADIUS = 1.5
              81    KM   VELOCITY = 16.2
              82    RM       3   0.272    0.15
                    *
              83    KK     RR5
              84    BA   7.132
              85    PB    1.25
              86    LS       0    87.9
              87    UD   0.615
                    *
```



```
          LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

              88    KK   R-RR5
              89    KM   ROUTE RR5 THROUGH RR3 TO CRR3
              90    KM   NATURAL WASH
              91    KM   TRAVEL LENGTH = 10700
              92    KM   SLOPE = 0.037
              93    KM   N = 0.04
              94    KM   HYDRAULIC RADIUS = 1.5
              95    KM   VELOCITY = 15
              96    RM       2   0.198    0.15
                    *
              97    KK     RR3
              98    BA  14.983
              99    PB    1.20
             100    LS       0      87
             101    UD   0.761
                    *
             102    KK    CRR3
             103    KM   COMBINE RCRR2, R-RR5, AND RR3
             104    HC       3
                    *
             105    KK   RCRR3
             106    KM   ROUTE CRR3 THROUGH RR10 TO CRR10
             107    KM   NATURAL WASH
             108    KM   TRAVEL LENGTH = 20700
             109    KM   SLOPE = 0.025
             110    KM   N = 0.04
             111    KM   HYDRAULIC RADIUS = 1.5
             112    KM   VELOCITY = 12.3
             113    RM       6   0.466    0.15
                    *
             114    KK    RR10
             115    BA   8.775
             116    PB    1.08
             117    LS       0    86.1
             118    UD   0.882
```

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                 *

 119             KK   CRR10
 120             KM   COMBINE RCRR3 AND RR10
 121             HC       2
                 *

 122             KK  RCRR10
 123             KM   ROUTE CRR10 THROUGH 104A TO C104A (RED ROCK DETENTION BASIN)
 124             KM   NATURAL WASH
 125             KM   TRAVEL LENGTH = 14500
 126             KM   SLOPE = 0.021
 127             KM   N = 0.04
 128             KM   HYDRAULIC RADIUS = 1.5
 129             KM   VELOCITY = 11.3
1                                    HEC-1 INPUT                                    PAGE  4

LINE             ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 130             RM       4   0.356    0.15
                 *

 131             KK   RR12A
 132             BA   5.821
 133             PB    1.14
 134             LS       0    87.6
 135             UD   0.728
                 *

 136             KK R-RR12A
 137             KM   ROUTE RR12A THROUGH 104A TO C104A (RED ROCK DETENTION BASIN)
 138             KM   NATURAL WASH
 139             KM   TRAVEL LENGTH = 12000
 140             KM   SLOPE = 0.026
 141             KM   N = 0.04
 142             KM   HYDRAULIC RADIUS = 1.5
 143             KM   VELOCITY = 12.6
 144             RM       3   0.265    0.15
                 *

 145             KK    104A
 146             BA   3.391
 147             PB    0.96
 148             LS       0    81.3
 149             UD   0.801
                 *

 150             KK   C104A
 151             KM   COMBINE RCRR10, R-RR12A, AND 104A
 152             HC       3
                 *

 153             KK     RD1
 154             BA   0.431
 155             PB    1.12
 156             LS       0    86.6
 157             UD   0.195
                 *

 158             KK   R-RD1
 159             KM   ROUTE RD1 THROUGH RD2 TO CRD2
 160             KM   FUTURE CONCRETE CHANNEL
 161             RD    5100   0.061   0.015       0    TRAP      12       2
                 *

 162             KK     RD2
 163             BA   0.473
 164             PB    1.08
 165             LS       0    91.2
 166             UD   0.167
                 *
1                                    HEC-1 INPUT                                    PAGE  5

LINE             ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 167             KK    CRD2
 168             KM   COMBINE R-RD1 AND RD2
 169             HC       2
                 *

 170             KK   RCRD2
 171             KM   ROUTE CRD2 TO CRD3 (RED ROCK DETENTION BASIN)
 172             KM   FUTURE CONCRETE CHANNEL
 173             RD    4600    0.05   0.015       0    TRAP      12       2
                 *

 174             KK     RD3
 175             BA    0.33
 176             PB    1.06
 177             LS       0    90.3
 178             UD   0.168
                 *

 179             KK    CRD3
 180             KM   COMBINE RCRD2 AND RD3
 181             HC       2
                 *

 182             KK   RR14A
 183             BA   4.602
 184             PB    1.23
 185             LS       0    87.3
 186             UD   0.725
                 *

 187             KK R-RR14A
 188             KM   ROUTE RR14A THROUGH RD4 TO CRD4
 189             KM   FUTURE CONCRETE CHANNEL
 190             RD    5500   0.071   0.015       0    TRAP      12       2
                 *

 191             KK     RD4
 192             BA   0.402
 193             PB    1.12
 194             LS       0    85.1
 195             UD   0.177
                 *

 196             KK    CRD4
 197             KM   COMBINE R-RR14A AND RD4
 198             HC       2
                 *

 199             KK   RCRD4
 200             KM   ROUTE CRD4 THROUGH RD5 TO CRD5
 201             KM   FUTURE CONCRETE CHANNEL
 202             RD    4550   0.067   0.015       0    TRAP      20       2
                 *
1                                    HEC-1 INPUT                                    PAGE  6

LINE             ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 203             KK     RD5
 204             BA    0.37
 205             PB    1.08
 206             LS       0    86.2
 207             UD   0.163
                 *

 208             KK    CRD5
 209             KM   COMBINE RCRD4 AND RD5
 210             HC       2
                 *

 211             KK   RCRD5
 212             KM   ROUTE CRD5 THROUGH RD6 TO CRD6 (RED ROCK DETENTION BASIN)
 213             KM   FUTURE CONCRETE CHANNEL
 214             RD    5600   0.047   0.015       0    TRAP      20       2
                 *

 215             KK     RD6
 216             BA    0.25
 217             PB    1.06
 218             LS       0      90
 219             UD    0.16
                 *

 220             KK    CRD6
 221             KM   COMBINE RCRD5 AND RD6
 222             HC       2
                 *

 223             KK    INRR
 224             KM   COMBINE C104A, CRD3, AND CRD6 - TOTAL INFLOW TO RED ROCK DETENTION BASIN
 225             KO       1
 226             HC       3
                 * ============================================================

 227             KK    RRDB
 228             KM   RED ROCK DETENTION BASIN
 229             KM   TAKEN FROM THE CORP MODELS FOR RED ROCK DETENTION BASIN
 230             KM   100YR COMPUTED PROBABILITY DETENTION DESIGN
 231             KM   FACILITY ID-MILE = RRWA 0716
 232             KM   STORAGE VOLUME = 2007 ACRE-FEET
 233             KM   OUTLET = 27"H x 27"W RCB ORIFICE
 234             KM   100-YR DISCHARGE = 182 CFS
 235             KM   SPILLWAY LENGTH = 600 FT
 236             KM   AUXILLARY OGEE SPILLWAY LENGTH = 323 FT
 237             KM   SPILLWAY CREST ELEVATION = 3212.5 FT NGVD
 238             KM   PMF DISCHARGE = 110000 CFS
 239             KM   TOP OF DAM ELEVATION = 3225 FT NGVD
 240             KO       1
 241             RS       1    STOR      -1
 242             SV       0       9     107     231     372     529     705     903    1125    1376
 243             SV    1659    1974    2007    2115    2331    2690    2933
 244             SQ       0      10      57      80      99     114     128     140     151     162
```

```
  LINE          ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

  245           SQ     171     181     182    8654   33270  110918  163477
  246           SE    3161    3162    3167    3172    3177    3182    3187    3192    3197    3202
  247           SE    3207    3212  3212.5    3214    3217    3222    3225
                * ========================================================

  248           KK *DOUTRR
  249           KM   DIVERT SPILLWAY OVERFLOW IN EXCESS OF CORPS DESIGN OUTFLOW
  250           DT*D-RROUT
  251           DI       0     182    3000    5000   10000
  252           DQ       0       0    2818    4818    9818
                *

  253           KK  ROUTRR
  254           KM   ROUTE OUTFLOW FROM RED ROCK DETENTION BASIN THROUGH R3A TO CR3A
  255           KM   FACILITY = RED ROCK CHANNEL
  256           KM   FACILITY # = RRWA 0714, 0709, 0701
  257           KM   LINING = RCP
  258           KM   LINING = RIPRAP CHNL 10'W X 6'D; 2:1SS
  259           RD    1500   0.008    0.04       0    TRAP      10       2
                *

  260           KK     R3A
  261           BA   0.186
  262           PB    1.04
  263           LS       0    84.3
  264           UD    0.11
                *

  265           KK    CR3A
  266           KM   COMBINE OUTFLOW FROM RED ROCK DETENTION BASIN WITH R3A
  267           HC       2
                *

  268           KK   RCR3A
  269           KM   ROUTE CR3A THROUGH UFR1 TO CUFR1
  270           KM   FACILITY = RED ROCK CHANNEL
  271           KM   FACILITY # = RRWA 0695, 0692, 0608, 0607
  272           KM   LINING = RCP
  273           RD    5045  0.0055   0.013       0    CIRC       8       0
                *

  274           ZZ
```

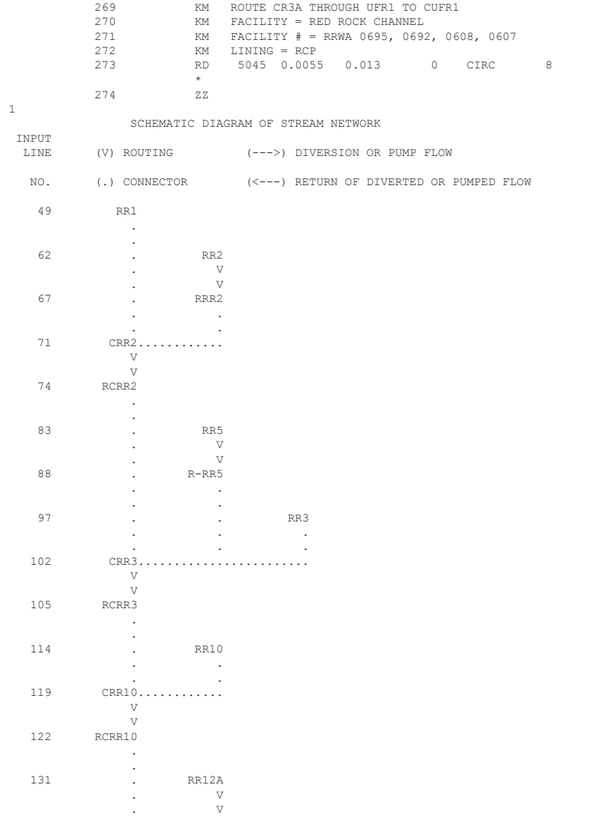
1

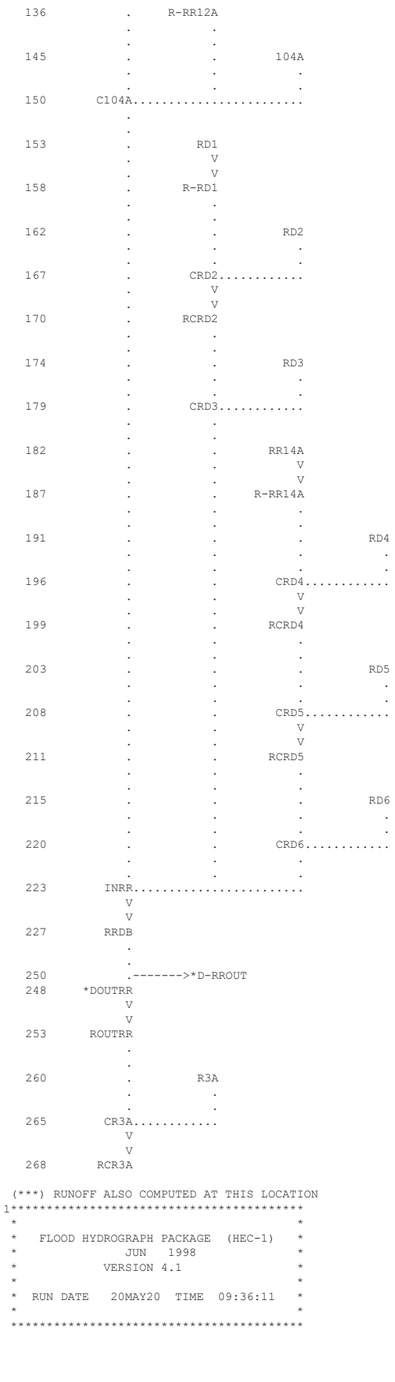
SCHEMATIC DIAGRAM OF STREAM NETWORK

INPUT

LINE (V) ROUTING (---->) DIVERSION OR PUMP FLOW

NO. (.) CONNECTOR (<---) RETURN OF DIVERTED OR PUMPED FLOW





(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

```
1*****************************************
 *                                       *
 *   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
 *             JUN   1998                *
 *          VERSION 4.1                  *
 *                                       *
 *  RUN DATE   20MAY20  TIME  09:36:11   *
 *                                       *
 *****************************************
```

```
*************************************
*                                   *
*    U.S. ARMY CORPS OF ENGINEERS   *
*    HYDROLOGIC ENGINEERING CENTER  *
*         609 SECOND STREET         *
*       DAVIS, CALIFORNIA 95616     *
*           (916) 756-1104          *
*                                   *
*************************************
```

RED ROCK TRAIL TO FY19-87
US FEDERAL HIGHWAY ADMINISTRATION
PN WXXY4000

HEC-1 MODEL TAKEN FROM CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT (CCRFCD)
2018 MASTER PLAN UPDATE
FLAMINGO / TROPICANA WASHES WATERSHED
RECOMMENDED DRAINAGE SYSTEM WITH ULTIMATE DEVELOPMENT
INPUT FILE = FLAM3A.DAT
INPUT FILE DATE = MAY 2020
PRECIPITATION VALUES TAKEN FROM NOAA ATLAS 2 &
ADJUSTED PER CCRFCD HYDRAULIC CRITERIA & DRAINAGE DESIGN MANUAL TABLE 501
DESIGN STORM = 2-YEAR, 6-HOUR STORM
STORM DISTRIBUTION = SDN3
STORM CENTERING = SERIES A: REGIONAL DETENTION BASIN FLOWS NOT DIVERTED OUT
MODELED BY JACOBS (DAVE BERGH, PE)

JR CARDS CONTAIN DARFS BASED ON THE FOLLOWING VALUES:

AREA SQ.MI.	DARF SDN 3	SDN 4	SDN 5
0 - 0.5	0.990		
0.5 - 1	0.975		
1 - 2	0.950		
2 - 3	0.925		
3 - 4	0.915		
4 - 5	0.908		
5 - 6	0.903		
6 - 7	0.895		
7 - 8	0.885		
8 - 9		0.875	
9 - 10		0.865	
10 - 11		0.857	
11 - 12		0.850	
12 - 16			0.832
16 - 20			0.804
20 - 30			0.765
30 - 40			0.725
40 - 50			0.695
50 - 100			0.640
100 - 150			0.580
150 - 200			0.530

```
 46 IO          OUTPUT CONTROL VARIABLES
                     IPRNT          5  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL          0.  HYDROGRAPH PLOT SCALE

    IT          HYDROGRAPH TIME DATA
                      NMIN          5  MINUTES IN COMPUTATION INTERVAL
                     IDATE      1   0  STARTING DATE
                     ITIME       0000  STARTING TIME
                        NQ        300  NUMBER OF HYDROGRAPH ORDINATES
                    NDDATE      2   0  ENDING DATE
                    NDTIME       0055  ENDING TIME
                     ICENT         19  CENTURY MARK

                  COMPUTATION INTERVAL     .08 HOURS
                      TOTAL TIME BASE   24.92 HOURS

          ENGLISH UNITS
               DRAINAGE AREA         SQUARE MILES
               PRECIPITATION DEPTH   INCHES
               LENGTH, ELEVATION     FEET
               FLOW                  CUBIC FEET PER SECOND
               STORAGE VOLUME        ACRE-FEET
               SURFACE AREA          ACRES
               TEMPERATURE           DEGREES FAHRENHEIT

    JP          MULTI-PLAN OPTION
                     NPLAN          1  NUMBER OF PLANS

    JR          MULTI-RATIO OPTION
                    RATIOS OF PRECIPITATION
                    .99      .98      .95      .93      .92      .91      .90      .89      .88

*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

          **************
          *            *
223 KK    *      INRR  *
          *            *
          **************

225 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          1  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL          0.  HYDROGRAPH PLOT SCALE

226 HC          HYDROGRAPH COMBINATION
                     ICOMP          3  NUMBER OF HYDROGRAPHS TO COMBINE

                                       ***
```

****

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .99

****

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	*	1	0615	76	2782.	*	1	1230	151	0.	*	1	1845	226	0.
1	0005	2	0.	*	1	0620	77	2578.	*	1	1235	152	0.	*	1	1850	227	0.
1	0010	3	0.	*	1	0625	78	2367.	*	1	1240	153	0.	*	1	1855	228	0.
1	0015	4	0.	*	1	0630	79	2153.	*	1	1245	154	0.	*	1	1900	229	0.
1	0020	5	0.	*	1	0635	80	1940.	*	1	1250	155	0.	*	1	1905	230	0.
1	0025	6	0.	*	1	0640	81	1733.	*	1	1255	156	0.	*	1	1910	231	0.
1	0030	7	0.	*	1	0645	82	1537.	*	1	1300	157	0.	*	1	1915	232	0.
1	0035	8	0.	*	1	0650	83	1354.	*	1	1305	158	0.	*	1	1920	233	0.
1	0040	9	0.	*	1	0655	84	1188.	*	1	1310	159	0.	*	1	1925	234	0.
1	0045	10	0.	*	1	0700	85	1039.	*	1	1315	160	0.	*	1	1930	235	0.
1	0050	11	0.	*	1	0705	86	906.	*	1	1320	161	0.	*	1	1935	236	0.
1	0055	12	0.	*	1	0710	87	788.	*	1	1325	162	0.	*	1	1940	237	0.
1	0100	13	0.	*	1	0715	88	683.	*	1	1330	163	0.	*	1	1945	238	0.
1	0105	14	0.	*	1	0720	89	590.	*	1	1335	164	0.	*	1	1950	239	0.
1	0110	15	0.	*	1	0725	90	508.	*	1	1340	165	0.	*	1	1955	240	0.
1	0115	16	0.	*	1	0730	91	436.	*	1	1345	166	0.	*	1	2000	241	0.
1	0120	17	0.	*	1	0735	92	372.	*	1	1350	167	0.	*	1	2005	242	0.
1	0125	18	0.	*	1	0740	93	316.	*	1	1355	168	0.	*	1	2010	243	0.
1	0130	19	0.	*	1	0745	94	267.	*	1	1400	169	0.	*	1	2015	244	0.
1	0135	20	0.	*	1	0750	95	224.	*	1	1405	170	0.	*	1	2020	245	0.
1	0140	21	0.	*	1	0755	96	188.	*	1	1410	171	0.	*	1	2025	246	0.
1	0145	22	0.	*	1	0800	97	156.	*	1	1415	172	0.	*	1	2030	247	0.
1	0150	23	0.	*	1	0805	98	130.	*	1	1420	173	0.	*	1	2035	248	0.
1	0155	24	0.	*	1	0810	99	107.	*	1	1425	174	0.	*	1	2040	249	0.
1	0200	25	0.	*	1	0815	100	89.	*	1	1430	175	0.	*	1	2045	250	0.
1	0205	26	0.	*	1	0820	101	73.	*	1	1435	176	0.	*	1	2050	251	0.
1	0210	27	0.	*	1	0825	102	60.	*	1	1440	177	0.	*	1	2055	252	0.
1	0215	28	1.	*	1	0830	103	49.	*	1	1445	178	0.	*	1	2100	253	0.
1	0220	29	2.	*	1	0835	104	41.	*	1	1450	179	0.	*	1	2105	254	0.
1	0225	30	3.	*	1	0840	105	33.	*	1	1455	180	0.	*	1	2110	255	0.
1	0230	31	5.	*	1	0845	106	27.	*	1	1500	181	0.	*	1	2115	256	0.
1	0235	32	5.	*	1	0850	107	22.	*	1	1505	182	0.	*	1	2120	257	0.
1	0240	33	6.	*	1	0855	108	18.	*	1	1510	183	0.	*	1	2125	258	0.
1	0245	34	7.	*	1	0900	109	15.	*	1	1515	184	0.	*	1	2130	259	0.
1	0250	35	8.	*	1	0905	110	12.	*	1	1520	185	0.	*	1	2135	260	0.
1	0255	36	8.	*	1	0910	111	10.	*	1	1525	186	0.	*	1	2140	261	0.
1	0300	37	8.	*	1	0915	112	8.	*	1	1530	187	0.	*	1	2145	262	0.
1	0305	38	11.	*	1	0920	113	6.	*	1	1535	188	0.	*	1	2150	263	0.
1	0310	39	19.	*	1	0925	114	5.	*	1	1540	189	0.	*	1	2155	264	0.
1	0315	40	38.	*	1	0930	115	4.	*	1	1545	190	0.	*	1	2200	265	0.
1	0320	41	80.	*	1	0935	116	3.	*	1	1550	191	0.	*	1	2205	266	0.
1	0325	42	163.	*	1	0940	117	2.	*	1	1555	192	0.	*	1	2210	267	0.
1	0330	43	303.	*	1	0945	118	2.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	495.	*	1	0950	119	1.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	659.	*	1	0955	120	1.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	775.	*	1	1000	121	1.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	889.	*	1	1005	122	1.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	1042.	*	1	1010	123	0.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	1246.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	1505.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	1796.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	2117.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	2475.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	2877.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	3322.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	3796.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	4268.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	4695.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	5061.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	5347.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	5528.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	5590.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	5544.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	5407.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	5204.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	4960.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	4697.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	4432.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	4178.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	3944.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	3732.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	3536.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	3350.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	3166.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	2978.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.

****

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 5590.	5.08	1861.	466.	449.	449.
		(INCHES) .316	.316	.316	.316
		(AC-FT) 923.	924.	924.	924.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .98

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	2706.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	2508.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	2304.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	2095.	1		1245	154	0.	1		1900	229	0.
1		0020	5	0.	1		0635	80	1888.	1		1250	155	0.	1		1905	230	0.
1		0025	6	0.	1		0640	81	1687.	1		1255	156	0.	1		1910	231	0.
1		0030	7	0.	1		0645	82	1496.	1		1300	157	0.	1		1915	232	0.
1		0035	8	0.	1		0650	83	1319.	1		1305	158	0.	1		1920	233	0.
1		0040	9	0.	1		0655	84	1157.	1		1310	159	0.	1		1925	234	0.
1		0045	10	0.	1		0700	85	1012.	1		1315	160	0.	1		1930	235	0.
1		0050	11	0.	1		0705	86	883.	1		1320	161	0.	1		1935	236	0.
1		0055	12	0.	1		0710	87	767.	1		1325	162	0.	1		1940	237	0.
1		0100	13	0.	1		0715	88	665.	1		1330	163	0.	1		1945	238	0.
1		0105	14	0.	1		0720	89	575.	1		1335	164	0.	1		1950	239	0.
1		0110	15	0.	1		0725	90	495.	1		1340	165	0.	1		1955	240	0.
1		0115	16	0.	1		0730	91	424.	1		1345	166	0.	1		2000	241	0.
1		0120	17	0.	1		0735	92	362.	1		1350	167	0.	1		2005	242	0.
1		0125	18	0.	1		0740	93	308.	1		1355	168	0.	1		2010	243	0.
1		0130	19	0.	1		0745	94	260.	1		1400	169	0.	1		2015	244	0.
1		0135	20	0.	1		0750	95	219.	1		1405	170	0.	1		2020	245	0.
1		0140	21	0.	1		0755	96	183.	1		1410	171	0.	1		2025	246	0.
1		0145	22	0.	1		0800	97	152.	1		1415	172	0.	1		2030	247	0.
1		0150	23	0.	1		0805	98	126.	1		1420	173	0.	1		2035	248	0.
1		0155	24	0.	1		0810	99	105.	1		1425	174	0.	1		2040	249	0.
1		0200	25	0.	1		0815	100	86.	1		1430	175	0.	1		2045	250	0.
1		0205	26	0.	1		0820	101	71.	1		1435	176	0.	1		2050	251	0.
1		0210	27	0.	1		0825	102	59.	1		1440	177	0.	1		2055	252	0.
1		0215	28	0.	1		0830	103	48.	1		1445	178	0.	1		2100	253	0.
1		0220	29	1.	1		0835	104	40.	1		1450	179	0.	1		2105	254	0.
1		0225	30	3.	1		0840	105	33.	1		1455	180	0.	1		2110	255	0.
1		0230	31	4.	1		0845	106	27.	1		1500	181	0.	1		2115	256	0.
1		0235	32	5.	1		0850	107	22.	1		1505	182	0.	1		2120	257	0.
1		0240	33	5.	1		0855	108	18.	1		1510	183	0.	1		2125	258	0.
1		0245	34	6.	1		0900	109	14.	1		1515	184	0.	1		2130	259	0.
1		0250	35	7.	1		0905	110	12.	1		1520	185	0.	1		2135	260	0.
1		0255	36	8.	1		0910	111	9.	1		1525	186	0.	1		2140	261	0.
1		0300	37	8.	1		0915	112	8.	1		1530	187	0.	1		2145	262	0.
1		0305	38	10.	1		0920	113	6.	1		1535	188	0.	1		2150	263	0.
1		0310	39	18.	1		0925	114	5.	1		1540	189	0.	1		2155	264	0.
1		0315	40	35.	1		0930	115	4.	1		1545	190	0.	1		2200	265	0.
1		0320	41	75.	1		0935	116	3.	1		1550	191	0.	1		2205	266	0.
1		0325	42	154.	1		0940	117	2.	1		1555	192	0.	1		2210	267	0.
1		0330	43	285.	1		0945	118	2.	1		1600	193	0.	1		2215	268	0.
1		0335	44	469.	1		0950	119	1.	1		1605	194	0.	1		2220	269	0.
1		0340	45	627.	1		0955	120	1.	1		1610	195	0.	1		2225	270	0.
1		0345	46	736.	1		1000	121	1.	1		1615	196	0.	1		2230	271	0.
1		0350	47	851.	1		1005	122	1.	1		1620	197	0.	1		2235	272	0.
1		0355	48	994.	1		1010	123	0.	1		1625	198	0.	1		2240	273	0.
1		0400	49	1189.	1		1015	124	0.	1		1630	199	0.	1		2245	274	0.
1		0405	50	1438.	1		1020	125	0.	1		1635	200	0.	1		2250	275	0.
1		0410	51	1720.	1		1025	126	0.	1		1640	201	0.	1		2255	276	0.
1		0415	52	2028.	1		1030	127	0.	1		1645	202	0.	1		2300	277	0.
1		0420	53	2372.	1		1035	128	0.	1		1650	203	0.	1		2305	278	0.
1		0425	54	2762.	1		1040	129	0.	1		1655	204	0.	1		2310	279	0.
1		0430	55	3190.	1		1045	130	0.	1		1700	205	0.	1		2315	280	0.
1		0435	56	3651.	1		1050	131	0.	1		1705	206	0.	1		2320	281	0.
1		0440	57	4108.	1		1055	132	0.	1		1710	207	0.	1		2325	282	0.
1		0445	58	4523.	1		1100	133	0.	1		1715	208	0.	1		2330	283	0.
1		0450	59	4879.	1		1105	134	0.	1		1720	209	0.	1		2335	284	0.
1		0455	60	5160.	1		1110	135	0.	1		1725	210	0.	1		2340	285	0.
1		0500	61	5339.	1		1115	136	0.	1		1730	211	0.	1		2345	286	0.
1		0505	62	5402.	1		1120	137	0.	1		1735	212	0.	1		2350	287	0.
1		0510	63	5360.	1		1125	138	0.	1		1740	213	0.	1		2355	288	0.
1		0515	64	5231.	1		1130	139	0.	1		1745	214	0.	2		0000	289	0.
1		0520	65	5038.	1		1135	140	0.	1		1750	215	0.	2		0005	290	0.
1		0525	66	4804.	1		1140	141	0.	1		1755	216	0.	2		0010	291	0.
1		0530	67	4551.	1		1145	142	0.	1		1800	217	0.	2		0015	292	0.
1		0535	68	4297.	1		1150	143	0.	1		1805	218	0.	2		0020	293	0.
1		0540	69	4053.	1		1155	144	0.	1		1810	219	0.	2		0025	294	0.
1		0545	70	3828.	1		1200	145	0.	1		1815	220	0.	2		0030	295	0.
1		0550	71	3623.	1		1205	146	0.	1		1820	221	0.	2		0035	296	0.
1		0555	72	3434.	1		1210	147	0.	1		1825	222	0.	2		0040	297	0.
1		0600	73	3255.	1		1215	148	0.	1		1830	223	0.	2		0045	298	0.
1		0605	74	3077.	1		1220	149	0.	1		1835	224	0.	2		0050	299	0.
1		0610	75	2896.	1		1225	150	0.	1		1840	225	0.	2		0055	300	0.

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 5402.	5.08	1800.	450.	434.	434.
		(INCHES) .306	.306	.306	.306
		(AC-FT) 892.	893.	893.	893.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .95

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	2580.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	2392.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	2198.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	2000.	1		1245	154	0.	1		1900	229	0.
1		0020	5	0.	1		0635	80	1802.	1		1250	155	0.	1		1905	230	0.
1		0025	6	0.	1		0640	81	1611.	1		1255	156	0.	1		1910	231	0.
1		0030	7	0.	1		0645	82	1429.	1		1300	157	0.	1		1915	232	0.
1		0035	8	0.	1		0650	83	1260.	1		1305	158	0.	1		1920	233	0.
1		0040	9	0.	1		0655	84	1106.	1		1310	159	0.	1		1925	234	0.
1		0045	10	0.	1		0700	85	967.	1		1315	160	0.	1		1930	235	0.
1		0050	11	0.	1		0705	86	843.	1		1320	161	0.	1		1935	236	0.
1		0055	12	0.	1		0710	87	733.	1		1325	162	0.	1		1940	237	0.
1		0100	13	0.	1		0715	88	636.	1		1330	163	0.	1		1945	238	0.
1		0105	14	0.	1		0720	89	550.	1		1335	164	0.	1		1950	239	0.
1		0110	15	0.	1		0725	90	473.	1		1340	165	0.	1		1955	240	0.
1		0115	16	0.	1		0730	91	406.	1		1345	166	0.	1		2000	241	0.
1		0120	17	0.	1		0735	92	346.	1		1350	167	0.	1		2005	242	0.
1		0125	18	0.	1		0740	93	294.	1		1355	168	0.	1		2010	243	0.
1		0130	19	0.	1		0745	94	249.	1		1400	169	0.	1		2015	244	0.
1		0135	20	0.	1		0750	95	209.	1		1405	170	0.	1		2020	245	0.
1		0140	21	0.	1		0755	96	175.	1		1410	171	0.	1		2025	246	0.
1		0145	22	0.	1		0800	97	146.	1		1415	172	0.	1		2030	247	0.
1		0150	23	0.	1		0805	98	121.	1		1420	173	0.	1		2035	248	0.
1		0155	24	0.	1		0810	99	100.	1		1425	174	0.	1		2040	249	0.
1		0200	25	0.	1		0815	100	83.	1		1430	175	0.	1		2045	250	0.
1		0205	26	0.	1		0820	101	68.	1		1435	176	0.	1		2050	251	0.
1		0210	27	0.	1		0825	102	56.	1		1440	177	0.	1		2055	252	0.
1		0215	28	0.	1		0830	103	46.	1		1445	178	0.	1		2100	253	0.
1		0220	29	1.	1		0835	104	38.	1		1450	179	0.	1		2105	254	0.
1		0225	30	2.	1		0840	105	31.	1		1455	180	0.	1		2110	255	0.
1		0230	31	3.	1		0845	106	26.	1		1500	181	0.	1		2115	256	0.
1		0235	32	4.	1		0850	107	21.	1		1505	182	0.	1		2120	257	0.
1		0240	33	4.	1		0855	108	17.	1		1510	183	0.	1		2125	258	0.
1		0245	34	5.	1		0900	109	14.	1		1515	184	0.	1		2130	259	0.
1		0250	35	6.	1		0905	110	11.	1		1520	185	0.	1		2135	260	0.
1		0255	36	7.	1		0910	111	9.	1		1525	186	0.	1		2140	261	0.
1		0300	37	7.	1		0915	112	7.	1		1530	187	0.	1		2145	262	0.
1		0305	38	9.	1		0920	113	6.	1		1535	188	0.	1		2150	263	0.
1		0310	39	15.	1		0925	114	4.	1		1540	189	0.	1		2155	264	0.
1		0315	40	31.	1		0930	115	3.	1		1545	190	0.	1		2200	265	0.
1		0320	41	67.	1		0935	116	3.	1		1550	191	0.	1		2205	266	0.
1		0325	42	139.	1		0940	117	2.	1		1555	192	0.	1		2210	267	0.
1		0330	43	261.	1		0945	118	2.	1		1600	193	0.	1		2215	268	0.
1		0335	44	431.	1		0950	119	1.	1		1605	194	0.	1		2220	269	0.
1		0340	45	577.	1		0955	120	1.	1		1610	195	0.	1		2225	270	0.
1		0345	46	679.	1		1000	121	1.	1		1615	196	0.	1		2230	271	0.
1		0350	47	786.	1		1005	122	1.	1		1620	197	0.	1		2235	272	0.
1		0355	48	917.	1		1010	123	0.	1		1625	198	0.	1		2240	273	0.
1		0400	49	1099.	1		1015	124	0.	1		1630	199	0.	1		2245	274	0.
1		0405	50	1331.	1		1020	125	0.	1		1635	200	0.	1		2250	275	0.
1		0410	51	1592.	1		1025	126	0.	1		1640	201	0.	1		2255	276	0.
1		0415	52	1882.	1		1030	127	0.	1		1645	202	0.	1		2300	277	0.
1		0420	53	2207.	1		1035	128	0.	1		1650	203	0.	1		2305	278	0.
1		0425	54	2570.	1		1040	129	0.	1		1655	204	0.	1		2310	279	0.
1		0430	55	2976.	1		1045	130	0.	1		1700	205	0.	1		2315	280	0.
1		0435	56	3410.	1		1050	131	0.	1		1705	206	0.	1		2320	281	0.
1		0440	57	3844.	1		1055	132	0.	1		1710	207	0.	1		2325	282	0.
1		0445	58	4241.	1		1100	133	0.	1		1715	208	0.	1		2330	283	0.
1		0450	59	4581.	1		1105	134	0.	1		1720	209	0.	1		2335	284	0.
1		0455	60	4851.	1		1110	135	0.	1		1725	210	0.	1		2340	285	0.
1		0500	61	5025.	1		1115	136	0.	1		1730	211	0.	1		2345	286	0.
1		0505	62	5092.	1		1120	137	0.	1		1735	212	0.	1		2350	287	0.
1		0510	63	5058.	1		1125	138	0.	1		1740	213	0.	1		2355	288	0.
1		0515	64	4941.	1		1130	139	0.	1		1745	214	0.	2		0000	289	0.
1		0520	65	4763.	1		1135	140	0.	1		1750	215	0.	2		0005	290	0.
1		0525	66	4546.	1		1140	141	0.	1		1755	216	0.	2		0010	291	0.
1		0530	67	4311.	1		1145	142	0.	1		1800	217	0.	2		0015	292	0.

1	0535	68	4074.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.					
1	0540	69	3846.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.					
1	0545	70	3635.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.					
1	0550	71	3444.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.					
1	0555	72	3267.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.					
1	0600	73	3098.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.					
1	0605	74	2931.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.					
1	0610	75	2759.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.					

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 5092.	5.08	1699.	425.	409.	409.
		(INCHES)	.289	.289	.289
		(AC-FT)	842.	843.	843.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .93

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	*	1	0615	76	2455.	*	1	1230	151	0.	*	1	1845	226	0.				
1	0005	2	0.	*	1	0620	77	2277.	*	1	1235	152	0.	*	1	1850	227	0.				
1	0010	3	0.	*	1	0625	78	2093.	*	1	1240	153	0.	*	1	1855	228	0.				
1	0015	4	0.	*	1	0630	79	1905.	*	1	1245	154	0.	*	1	1900	229	0.				
1	0020	5	0.	*	1	0635	80	1717.	*	1	1250	155	0.	*	1	1905	230	0.				
1	0025	6	0.	*	1	0640	81	1535.	*	1	1255	156	0.	*	1	1910	231	0.				
1	0030	7	0.	*	1	0645	82	1362.	*	1	1300	157	0.	*	1	1915	232	0.				
1	0035	8	0.	*	1	0650	83	1201.	*	1	1305	158	0.	*	1	1920	233	0.				
1	0040	9	0.	*	1	0655	84	1054.	*	1	1310	159	0.	*	1	1925	234	0.				
1	0045	10	0.	*	1	0700	85	922.	*	1	1315	160	0.	*	1	1930	235	0.				
1	0050	11	0.	*	1	0705	86	805.	*	1	1320	161	0.	*	1	1935	236	0.				
1	0055	12	0.	*	1	0710	87	700.	*	1	1325	162	0.	*	1	1940	237	0.				
1	0100	13	0.	*	1	0715	88	607.	*	1	1330	163	0.	*	1	1945	238	0.				
1	0105	14	0.	*	1	0720	89	525.	*	1	1335	164	0.	*	1	1950	239	0.				
1	0110	15	0.	*	1	0725	90	452.	*	1	1340	165	0.	*	1	1955	240	0.				
1	0115	16	0.	*	1	0730	91	387.	*	1	1345	166	0.	*	1	2000	241	0.				
1	0120	17	0.	*	1	0735	92	331.	*	1	1350	167	0.	*	1	2005	242	0.				
1	0125	18	0.	*	1	0740	93	281.	*	1	1355	168	0.	*	1	2010	243	0.				
1	0130	19	0.	*	1	0745	94	237.	*	1	1400	169	0.	*	1	2015	244	0.				
1	0135	20	0.	*	1	0750	95	200.	*	1	1405	170	0.	*	1	2020	245	0.				
1	0140	21	0.	*	1	0755	96	167.	*	1	1410	171	0.	*	1	2025	246	0.				
1	0145	22	0.	*	1	0800	97	139.	*	1	1415	172	0.	*	1	2030	247	0.				
1	0150	23	0.	*	1	0805	98	116.	*	1	1420	173	0.	*	1	2035	248	0.				
1	0155	24	0.	*	1	0810	99	96.	*	1	1425	174	0.	*	1	2040	249	0.				
1	0200	25	0.	*	1	0815	100	79.	*	1	1430	175	0.	*	1	2045	250	0.				
1	0205	26	0.	*	1	0820	101	65.	*	1	1435	176	0.	*	1	2050	251	0.				
1	0210	27	0.	*	1	0825	102	54.	*	1	1440	177	0.	*	1	2055	252	0.				
1	0215	28	0.	*	1	0830	103	44.	*	1	1445	178	0.	*	1	2100	253	0.				
1	0220	29	0.	*	1	0835	104	36.	*	1	1450	179	0.	*	1	2105	254	0.				
1	0225	30	1.	*	1	0840	105	30.	*	1	1455	180	0.	*	1	2110	255	0.				
1	0230	31	3.	*	1	0845	106	24.	*	1	1500	181	0.	*	1	2115	256	0.				
1	0235	32	3.	*	1	0850	107	20.	*	1	1505	182	0.	*	1	2120	257	0.				
1	0240	33	4.	*	1	0855	108	16.	*	1	1510	183	0.	*	1	2125	258	0.				
1	0245	34	4.	*	1	0900	109	13.	*	1	1515	184	0.	*	1	2130	259	0.				
1	0250	35	5.	*	1	0905	110	11.	*	1	1520	185	0.	*	1	2135	260	0.				
1	0255	36	6.	*	1	0910	111	9.	*	1	1525	186	0.	*	1	2140	261	0.				
1	0300	37	6.	*	1	0915	112	7.	*	1	1530	187	0.	*	1	2145	262	0.				
1	0305	38	8.	*	1	0920	113	5.	*	1	1535	188	0.	*	1	2150	263	0.				
1	0310	39	13.	*	1	0925	114	4.	*	1	1540	189	0.	*	1	2155	264	0.				
1	0315	40	27.	*	1	0930	115	3.	*	1	1545	190	0.	*	1	2200	265	0.				
1	0320	41	59.	*	1	0935	116	3.	*	1	1550	191	0.	*	1	2205	266	0.				
1	0325	42	126.	*	1	0940	117	2.	*	1	1555	192	0.	*	1	2210	267	0.				
1	0330	43	238.	*	1	0945	118	2.	*	1	1600	193	0.	*	1	2215	268	0.				
1	0335	44	390.	*	1	0950	119	1.	*	1	1605	194	0.	*	1	2220	269	0.				
1	0340	45	529.	*	1	0955	120	1.	*	1	1610	195	0.	*	1	2225	270	0.				
1	0345	46	626.	*	1	1000	121	1.	*	1	1615	196	0.	*	1	2230	271	0.				
1	0350	47	723.	*	1	1005	122	1.	*	1	1620	197	0.	*	1	2235	272	0.				
1	0355	48	843.	*	1	1010	123	0.	*	1	1625	198	0.	*	1	2240	273	0.				
1	0400	49	1012.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.				
1	0405	50	1228.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.				
1	0410	51	1472.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.				
1	0415	52	1740.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.				
1	0420	53	2044.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.				
1	0425	54	2386.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.				
1	0430	55	2766.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.				
1	0435	56	3177.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.				
1	0440	57	3587.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.				
1	0445	58	3963.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.				
1	0450	59	4288.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.				
1	0455	60	4547.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.				
1	0500	61	4717.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.				
1	0505	62	4785.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.				
1	0510	63	4760.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.				
1	0515	64	4655.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.				
1	0520	65	4492.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.				
1	0525	66	4292.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.				
1	0530	67	4074.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.				
1	0535	68	3854.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.				
1	0540	69	3642.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.				
1	0545	70	3445.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.				
1	0550	71	3266.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.				
1	0555	72	3101.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.				
1	0600	73	2942.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.				
1	0605	74	2785.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.				
1	0610	75	2624.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.				

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 4785.	5.08	1600.	400.	385.	385.
		(INCHES)	.272	.272	.272	.272
		(AC-FT)	793.	794.	794.	794.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .92

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	*	1	0615	76	2405.	*	1	1230	151	0.	*	1	1845	226	0.				
1	0005	2	0.	*	1	0620	77	2231.	*	1	1235	152	0.	*	1	1850	227	0.				
1	0010	3	0.	*	1	0625	78	2051.	*	1	1240	153	0.	*	1	1855	228	0.				
1	0015	4	0.	*	1	0630	79	1867.	*	1	1245	154	0.	*	1	1900	229	0.				
1	0020	5	0.	*	1	0635	80	1683.	*	1	1250	155	0.	*	1	1905	230	0.				
1	0025	6	0.	*	1	0640	81	1505.	*	1	1255	156	0.	*	1	1910	231	0.				
1	0030	7	0.	*	1	0645	82	1335.	*	1	1300	157	0.	*	1	1915	232	0.				
1	0035	8	0.	*	1	0650	83	1178.	*	1	1305	158	0.	*	1	1920	233	0.				
1	0040	9	0.	*	1	0655	84	1034.	*	1	1310	159	0.	*	1	1925	234	0.				
1	0045	10	0.	*	1	0700	85	905.	*	1	1315	160	0.	*	1	1930	235	0.				
1	0050	11	0.	*	1	0705	86	789.	*	1	1320	161	0.	*	1	1935	236	0.				
1	0055	12	0.	*	1	0710	87	686.	*	1	1325	162	0.	*	1	1940	237	0.				
1	0100	13	0.	*	1	0715	88	595.	*	1	1330	163	0.	*	1	1945	238	0.				
1	0105	14	0.	*	1	0720	89	515.	*	1	1335	164	0.	*	1	1950	239	0.				
1	0110	15	0.	*	1	0725	90	443.	*	1	1340	165	0.	*	1	1955	240	0.				
1	0115	16	0.	*	1	0730	91	380.	*	1	1345	166	0.	*	1	2000	241	0.				
1	0120	17	0.	*	1	0735	92	325.	*	1	1350	167	0.	*	1	2005	242	0.				
1	0125	18	0.	*	1	0740	93	276.	*	1	1355	168	0.	*	1	2010	243	0.				
1	0130	19	0.	*	1	0745	94	233.	*	1	1400	169	0.	*	1	2015	244	0.				
1	0135	20	0.	*	1	0750	95	196.	*	1	1405	170	0.	*	1	2020	245	0.				
1	0140	21	0.	*	1	0755	96	164.	*	1	1410	171	0.	*	1	2025	246	0.				
1	0145	22	0.	*	1	0800	97	137.	*	1	1415	172	0.	*	1	2030	247	0.				
1	0150	23	0.	*	1	0805	98	114.	*	1	1420	173	0.	*	1	2035	248	0.				
1	0155	24	0.	*	1	0810	99	94.	*	1	1425	174	0.	*	1	2040	249	0.				
1	0200	25	0.	*	1	0815	100	78.	*	1	1430	175	0.	*	1	2045	250	0.				
1	0205	26	0.	*	1	0820	101	64.	*	1	1435	176	0.	*	1	2050	251	0.				
1	0210	27	0.	*	1	0825	102	53.	*	1	1440	177	0.	*	1	2055	252	0.				
1	0215	28	0.	*	1	0830	103	43.	*	1	1445	178	0.	*	1	2100	253	0.				
1	0220	29	0.	*	1	0835	104	36.	*	1	1450	179	0.	*	1	2105	254	0.				
1	0225	30	1.	*	1	0840	105	29.	*	1	1455	180	0.	*	1	2110	255	0.				
1	0230	31	2.	*	1	0845	106	24.	*	1	1500	181	0.	*	1	2115	256	0.				
1	0235	32	3.	*	1	0850	107	20.	*	1	1505	182	0.	*	1	2120	257	0.				
1	0240	33	3.	*	1	0855	108	16.	*	1	1510	183	0.	*	1	2125	258	0.				
1	0245	34	4.	*	1	0900	109	13.	*	1	1515	184	0.	*	1	2130	259	0.				
1	0250	35	5.	*	1	0905	110	11.	*	1	1520	185	0.	*	1	2135	260	0.				
1	0255	36	5.	*	1	0910	111	8.	*	1	1525	186	0.	*	1	2140	261	0.				
1	0300	37	5.	*	1	0915	112	7.	*	1	1530	187	0.	*	1	2145	262	0.				
1	0305	38	7.	*	1	0920	113	5.	*	1	1535	188	0.	*	1	2150	263	0.				
1	0310	39	13.	*	1	0925	114	4.	*	1	1540	189	0.	*	1	2155	264	0.				
1	0315	40	26.	*	1	0930	115	3.	*	1	1545	190	0.	*	1	2200	265	0.				
1	0320	41	57.	*	1	0935	116	3.	*	1	1550	191	0.	*	1	2205	266	0.				
1	0325	42	121.	*	1	0940	117	2.	*	1	1555	192	0.	*	1	2210	267	0.				
1	0330	43	228.	*	1	0945	118	1.	*	1	1600	193	0.	*	1	2215	268	0.				
1	0335	44	374.	*	1	0950	119	1.	*	1	1605	194	0.	*	1	2220	269	0.				
1	0340	45	508.	*	1	0955	120	1.	*	1	1610	195	0.	*	1	2225	270	0.				
1	0345	46	607.	*	1	1000	121	1.	*	1	1615	196	0.	*	1	2230	271	0.				
1	0350	47	698.	*	1	1005	122	0.	*	1	1620	197	0.	*	1	2235	272	0.				
1	0355	48	816.	*	1	1010	123	0.	*	1	1625	198	0.	*	1	2240	273	0.				
1	0400	49	978.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.				
1	0405	50	1187.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.				
1	0410	51	1425.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.				
1	0415	52	1687.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.				
1	0420	53	1981.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.				
1	0425	54	2313.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.				
1	0430	55	2684.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.				
1	0435	56	3085.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.				
1	0440	57	3485.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.				

1	0445	58	3854.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.					
1	0450	59	4173.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.					
1	0455	60	4428.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.					
1	0500	61	4596.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.					
1	0505	62	4665.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.					
1	0510	63	4641.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.					
1	0515	64	4542.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.					
1	0520	65	4385.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.					
1	0525	66	4191.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.					
1	0530	67	3981.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.					
1	0535	68	3767.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.					
1	0540	69	3560.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.					
1	0545	70	3370.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.					
1	0550	71	3196.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.					
1	0555	72	3035.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.					
1	0600	73	2881.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.					
1	0605	74	2728.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.					
1	0610	75	2570.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.					

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)				
		(CFS)			
4665.	5.08	1560.	390.	376.	376.
		(INCHES) .265	.265	.265	.265
		(AC-FT) 774.	774.	774.	774.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .91

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	1	0615	76	2370.	1	1230	151	0.	1	1845	226	0.				
1	0005	2	0.	1	0620	77	2199.	1	1235	152	0.	1	1850	227	0.				
1	0010	3	0.	1	0625	78	2022.	1	1240	153	0.	1	1855	228	0.				
1	0015	4	0.	1	0630	79	1841.	1	1245	154	0.	1	1900	229	0.				
1	0020	5	0.	1	0635	80	1660.	1	1250	155	0.	1	1905	230	0.				
1	0025	6	0.	1	0640	81	1484.	1	1255	156	0.	1	1910	231	0.				
1	0030	7	0.	1	0645	82	1317.	1	1300	157	0.	1	1915	232	0.				
1	0035	8	0.	1	0650	83	1161.	1	1305	158	0.	1	1920	233	0.				
1	0040	9	0.	1	0655	84	1020.	1	1310	159	0.	1	1925	234	0.				
1	0045	10	0.	1	0700	85	892.	1	1315	160	0.	1	1930	235	0.				
1	0050	11	0.	1	0705	86	778.	1	1320	161	0.	1	1935	236	0.				
1	0055	12	0.	1	0710	87	677.	1	1325	162	0.	1	1940	237	0.				
1	0100	13	0.	1	0715	88	587.	1	1330	163	0.	1	1945	238	0.				
1	0105	14	0.	1	0720	89	508.	1	1335	164	0.	1	1950	239	0.				
1	0110	15	0.	1	0725	90	437.	1	1340	165	0.	1	1955	240	0.				
1	0115	16	0.	1	0730	91	375.	1	1345	166	0.	1	2000	241	0.				
1	0120	17	0.	1	0735	92	320.	1	1350	167	0.	1	2005	242	0.				
1	0125	18	0.	1	0740	93	272.	1	1355	168	0.	1	2010	243	0.				
1	0130	19	0.	1	0745	94	230.	1	1400	169	0.	1	2015	244	0.				
1	0135	20	0.	1	0750	95	193.	1	1405	170	0.	1	2020	245	0.				
1	0140	21	0.	1	0755	96	162.	1	1410	171	0.	1	2025	246	0.				
1	0145	22	0.	1	0800	97	135.	1	1415	172	0.	1	2030	247	0.				
1	0150	23	0.	1	0805	98	112.	1	1420	173	0.	1	2035	248	0.				
1	0155	24	0.	1	0810	99	93.	1	1425	174	0.	1	2040	249	0.				
1	0200	25	0.	1	0815	100	77.	1	1430	175	0.	1	2045	250	0.				
1	0205	26	0.	1	0820	101	63.	1	1435	176	0.	1	2050	251	0.				
1	0210	27	0.	1	0825	102	52.	1	1440	177	0.	1	2055	252	0.				
1	0215	28	0.	1	0830	103	43.	1	1445	178	0.	1	2100	253	0.				
1	0220	29	0.	1	0835	104	35.	1	1450	179	0.	1	2105	254	0.				
1	0225	30	1.	1	0840	105	29.	1	1455	180	0.	1	2110	255	0.				
1	0230	31	2.	1	0845	106	24.	1	1500	181	0.	1	2115	256	0.				
1	0235	32	3.	1	0850	107	19.	1	1505	182	0.	1	2120	257	0.				
1	0240	33	3.	1	0855	108	16.	1	1510	183	0.	1	2125	258	0.				
1	0245	34	4.	1	0900	109	13.	1	1515	184	0.	1	2130	259	0.				
1	0250	35	5.	1	0905	110	10.	1	1520	185	0.	1	2135	260	0.				
1	0255	36	5.	1	0910	111	8.	1	1525	186	0.	1	2140	261	0.				
1	0300	37	5.	1	0915	112	7.	1	1530	187	0.	1	2145	262	0.				
1	0305	38	7.	1	0920	113	5.	1	1535	188	0.	1	2150	263	0.				
1	0310	39	12.	1	0925	114	4.	1	1540	189	0.	1	2155	264	0.				
1	0315	40	25.	1	0930	115	3.	1	1545	190	0.	1	2200	265	0.				
1	0320	41	55.	1	0935	116	2.	1	1550	191	0.	1	2205	266	0.				
1	0325	42	118.	1	0940	117	2.	1	1555	192	0.	1	2210	267	0.				
1	0330	43	222.	1	0945	118	1.	1	1600	193	0.	1	2215	268	0.				
1	0335	44	363.	1	0950	119	1.	1	1605	194	0.	1	2220	269	0.				
1	0340	45	495.	1	0955	120	1.	1	1610	195	0.	1	2225	270	0.				
1	0345	46	590.	1	1000	121	1.	1	1615	196	0.	1	2230	271	0.				
1	0350	47	681.	1	1005	122	0.	1	1620	197	0.	1	2235	272	0.				
1	0355	48	795.	1	1010	123	0.	1	1625	198	0.	1	2240	273	0.				
1	0400	49	955.	1	1015	124	0.	1	1630	199	0.	1	2245	274	0.				
1	0405	50	1159.	1	1020	125	0.	1	1635	200	0.	1	2250	275	0.				
1	0410	51	1392.	1	1025	126	0.	1	1640	201	0.	1	2255	276	0.				
1	0415	52	1647.	1	1030	127	0.	1	1645	202	0.	1	2300	277	0.				

1	0420	53	1938.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.					
1	0425	54	2264.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.					
1	0430	55	2627.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.					
1	0435	56	3020.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.					
1	0440	57	3415.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.					
1	0445	58	3777.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.					
1	0450	59	4092.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.					
1	0455	60	4344.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.					
1	0500	61	4511.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.					
1	0505	62	4580.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.					
1	0510	63	4559.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.					
1	0515	64	4463.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.					
1	0520	65	4310.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.					
1	0525	66	4121.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.					
1	0530	67	3915.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.					
1	0535	68	3705.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.					
1	0540	69	3504.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.					
1	0545	70	3317.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.					
1	0550	71	3147.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.					
1	0555	72	2989.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.					
1	0600	73	2838.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.					
1	0605	74	2688.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.					
1	0610	75	2533.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.					

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)				
		(CFS)			
4580.	5.08	1533.	384.	369.	369.
		(INCHES) .260	.261	.261	.261
		(AC-FT) 760.	761.	761.	761.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .90

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	1	0615	76	2346.	1	1230	151	0.	1	1845	226	0.				
1	0005	2	0.	1	0620	77	2177.	1	1235	152	0.	1	1850	227	0.				
1	0010	3	0.	1	0625	78	2001.	1	1240	153	0.	1	1855	228	0.				
1	0015	4	0.	1	0630	79	1822.	1	1245	154	0.	1	1900	229	0.				
1	0020	5	0.	1	0635	80	1643.	1	1250	155	0.	1	1905	230	0.				
1	0025	6	0.	1	0640	81	1469.	1	1255	156	0.	1	1910	231	0.				
1	0030	7	0.	1	0645	82	1304.	1	1300	157	0.	1	1915	232	0.				
1	0035	8	0.	1	0650	83	1150.	1	1305	158	0.	1	1920	233	0.				
1	0040	9	0.	1	0655	84	1009.	1	1310	159	0.	1	1925	234	0.				
1	0045	10	0.	1	0700	85	883.	1	1315	160	0.	1	1930	235	0.				
1	0050	11	0.	1	0705	86	771.	1	1320	161	0.	1	1935	236	0.				
1	0055	12	0.	1	0710	87	670.	1	1325	162	0.	1	1940	237	0.				
1	0100	13	0.	1	0715	88	582.	1	1330	163	0.	1	1945	238	0.				
1	0105	14	0.	1	0720	89	503.	1	1335	164	0.	1	1950	239	0.				
1	0110	15	0.	1	0725	90	433.	1	1340	165	0.	1	1955	240	0.				
1	0115	16	0.	1	0730	91	371.	1	1345	166	0.	1	2000	241	0.				
1	0120	17	0.	1	0735	92	317.	1	1350	167	0.	1	2005	242	0.				
1	0125	18	0.	1	0740	93	269.	1	1355	168	0.	1	2010	243	0.				
1	0130	19	0.	1	0745	94	228.	1	1400	169	0.	1	2015	244	0.				
1	0135	20	0.	1	0750	95	191.	1	1405	170	0.	1	2020	245	0.				
1	0140	21	0.	1	0755	96	160.	1	1410	171	0.	1	2025	246	0.				
1	0145	22	0.	1	0800	97	134.	1	1415	172	0.	1	2030	247	0.				
1	0150	23	0.	1	0805	98	111.	1	1420	173	0.	1	2035	248	0.				
1	0155	24	0.	1	0810	99	92.	1	1425	174	0.	1	2040	249	0.				
1	0200	25	0.	1	0815	100	76.	1	1430	175	0.	1	2045	250	0.				
1	0205	26	0.	1	0820	101	63.	1	1435	176	0.	1	2050	251	0.				
1	0210	27	0.	1	0825	102	52.	1	1440	177	0.	1	2055	252	0.				
1	0215	28	0.	1	0830	103	42.	1	1445	178	0.	1	2100	253	0.				
1	0220	29	0.	1	0835	104	35.	1	1450	179	0.	1	2105	254	0.				
1	0225	30	1.	1	0840	105	29.	1	1455	180	0.	1	2110	255	0.				
1	0230	31	2.	1	0845	106	23.	1	1500	181	0.	1	2115	256	0.				
1	0235	32	2.	1	0850	107	19.	1	1505	182	0.	1	2120	257	0.				
1	0240	33	3.	1	0855	108	16.	1	1510	183	0.	1	2125	258	0.				
1	0245	34	4.	1	0900	109	13.	1	1515	184	0.	1	2130	259	0.				
1	0250	35	5.	1	0905	110	10.	1	1520	185	0.	1	2135	260	0.				
1	0255	36	5.	1	0910	111	8.	1	1525	186	0.	1	2140	261	0.				
1	0300	37	5.	1	0915	112	7.	1	1530	187	0.	1	2145	262	0.				
1	0305	38	7.	1	0920	113	5.	1	1535	188	0.	1	2150	263	0.				
1	0310	39	12.	1	0925	114	4.	1	1540	189	0.	1	2155	264	0.				
1	0315	40	24.	1	0930	115	3.	1	1545	190	0.	1	2200	265	0.				
1	0320	41	54.	1	0935	116	2.	1	1550	191	0.	1	2205	266	0.				
1	0325	42	116.	1	0940	117	2.	1	1555	192	0.	1	2210	267	0.				
1	0330	43	219.	1	0945	118	1.	1	1600	193	0.	1	2215	268	0.				
1	0335	44	360.	1	0950	119	1.	1	1605	194	0.	1	2220	269	0.				
1	0340	45	489.	1	0955	120	1.	1	1610	195	0.	1	2225	270	0.				
1	0345	46	579.	1	1000	121	1.	1	1615	196	0.	1	2230	271	0.				
1	0350	47	670.	1	1005	122	0.	1	1620	197	0.	1	2235	272	0.				

DA	MON	HRMN	ORD	FLOW		DA	MON	HRMN	ORD	FLOW		DA	MON	HRMN	ORD	FLOW		DA	MON	HRMN	ORD	FLOW
1		0355	48	782.	*	1		1010	123	0.	*	1		1625	198	0.	*	1		2240	273	0.
1		0400	49	939.	*	1		1015	124	0.	*	1		1630	199	0.	*	1		2245	274	0.
1		0405	50	1140.	*	1		1020	125	0.	*	1		1635	200	0.	*	1		2250	275	0.
1		0410	51	1370.	*	1		1025	126	0.	*	1		1640	201	0.	*	1		2255	276	0.
1		0415	52	1623.	*	1		1030	127	0.	*	1		1645	202	0.	*	1		2300	277	0.
1		0420	53	1906.	*	1		1035	128	0.	*	1		1650	203	0.	*	1		2305	278	0.
1		0425	54	2228.	*	1		1040	129	0.	*	1		1655	204	0.	*	1		2310	279	0.
1		0430	55	2587.	*	1		1045	130	0.	*	1		1700	205	0.	*	1		2315	280	0.
1		0435	56	2975.	*	1		1050	131	0.	*	1		1705	206	0.	*	1		2320	281	0.
1		0440	57	3365.	*	1		1055	132	0.	*	1		1710	207	0.	*	1		2325	282	0.
1		0445	58	3724.	*	1		1100	133	0.	*	1		1715	208	0.	*	1		2330	283	0.
1		0450	59	4035.	*	1		1105	134	0.	*	1		1720	209	0.	*	1		2335	284	0.
1		0455	60	4286.	*	1		1110	135	0.	*	1		1725	210	0.	*	1		2340	285	0.
1		0500	61	4450.	*	1		1115	136	0.	*	1		1730	211	0.	*	1		2345	286	0.
1		0505	62	4520.	*	1		1120	137	0.	*	1		1735	212	0.	*	1		2350	287	0.
1		0510	63	4501.	*	1		1125	138	0.	*	1		1740	213	0.	*	1		2355	288	0.
1		0515	64	4407.	*	1		1130	139	0.	*	1		1745	214	0.	*	2		0000	289	0.
1		0520	65	4257.	*	1		1135	140	0.	*	1		1750	215	0.	*	2		0005	290	0.
1		0525	66	4071.	*	1		1140	141	0.	*	1		1755	216	0.	*	2		0010	291	0.
1		0530	67	3869.	*	1		1145	142	0.	*	1		1800	217	0.	*	2		0015	292	0.
1		0535	68	3663.	*	1		1150	143	0.	*	1		1805	218	0.	*	2		0020	293	0.
1		0540	69	3464.	*	1		1155	144	0.	*	1		1810	219	0.	*	2		0025	294	0.
1		0545	70	3279.	*	1		1200	145	0.	*	1		1815	220	0.	*	2		0030	295	0.
1		0550	71	3112.	*	1		1205	146	0.	*	1		1820	221	0.	*	2		0035	296	0.
1		0555	72	2956.	*	1		1210	147	0.	*	1		1825	222	0.	*	2		0040	297	0.
1		0600	73	2807.	*	1		1215	148	0.	*	1		1830	223	0.	*	2		0045	298	0.
1		0605	74	2659.	*	1		1220	149	0.	*	1		1835	224	0.	*	2		0050	299	0.
1		0610	75	2506.	*	1		1225	150	0.	*	1		1840	225	0.	*	2		0055	300	0.
					*						*						*					

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW				
		6-HR	24-HR	72-HR	24.92-HR	
+ (CFS)	(HR)					
		(CFS)				
+ 4520.	5.08	1514.	379.	365.	365.	
		(INCHES)	.257	.257	.257	.257
		(AC-FT)	751.	751.	751.	751.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .89

DA	MON	HRMN	ORD	FLOW		DA	MON	HRMN	ORD	FLOW		DA	MON	HRMN	ORD	FLOW		DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	2306.	*	1		1230	151	0.	*	1		1845	226	0.
1		0005	2	0.	*	1		0620	77	2140.	*	1		1235	152	0.	*	1		1850	227	0.
1		0010	3	0.	*	1		0625	78	1968.	*	1		1240	153	0.	*	1		1855	228	0.
1		0015	4	0.	*	1		0630	79	1792.	*	1		1245	154	0.	*	1		1900	229	0.
1		0020	5	0.	*	1		0635	80	1616.	*	1		1250	155	0.	*	1		1905	230	0.
1		0025	6	0.	*	1		0640	81	1445.	*	1		1255	156	0.	*	1		1910	231	0.
1		0030	7	0.	*	1		0645	82	1282.	*	1		1300	157	0.	*	1		1915	232	0.
1		0035	8	0.	*	1		0650	83	1131.	*	1		1305	158	0.	*	1		1920	233	0.
1		0040	9	0.	*	1		0655	84	993.	*	1		1310	159	0.	*	1		1925	234	0.
1		0045	10	0.	*	1		0700	85	869.	*	1		1315	160	0.	*	1		1930	235	0.
1		0050	11	0.	*	1		0705	86	758.	*	1		1320	161	0.	*	1		1935	236	0.
1		0055	12	0.	*	1		0710	87	660.	*	1		1325	162	0.	*	1		1940	237	0.
1		0100	13	0.	*	1		0715	88	572.	*	1		1330	163	0.	*	1		1945	238	0.
1		0105	14	0.	*	1		0720	89	495.	*	1		1335	164	0.	*	1		1950	239	0.
1		0110	15	0.	*	1		0725	90	426.	*	1		1340	165	0.	*	1		1955	240	0.
1		0115	16	0.	*	1		0730	91	366.	*	1		1345	166	0.	*	1		2000	241	0.
1		0120	17	0.	*	1		0735	92	312.	*	1		1350	167	0.	*	1		2005	242	0.
1		0125	18	0.	*	1		0740	93	265.	*	1		1355	168	0.	*	1		2010	243	0.
1		0130	19	0.	*	1		0745	94	224.	*	1		1400	169	0.	*	1		2015	244	0.
1		0135	20	0.	*	1		0750	95	188.	*	1		1405	170	0.	*	1		2020	245	0.
1		0140	21	0.	*	1		0755	96	158.	*	1		1410	171	0.	*	1		2025	246	0.
1		0145	22	0.	*	1		0800	97	132.	*	1		1415	172	0.	*	1		2030	247	0.
1		0150	23	0.	*	1		0805	98	109.	*	1		1420	173	0.	*	1		2035	248	0.
1		0155	24	0.	*	1		0810	99	90.	*	1		1425	174	0.	*	1		2040	249	0.
1		0200	25	0.	*	1		0815	100	75.	*	1		1430	175	0.	*	1		2045	250	0.
1		0205	26	0.	*	1		0820	101	62.	*	1		1435	176	0.	*	1		2050	251	0.
1		0210	27	0.	*	1		0825	102	51.	*	1		1440	177	0.	*	1		2055	252	0.
1		0215	28	0.	*	1		0830	103	42.	*	1		1445	178	0.	*	1		2100	253	0.
1		0220	29	0.	*	1		0835	104	34.	*	1		1450	179	0.	*	1		2105	254	0.
1		0225	30	1.	*	1		0840	105	28.	*	1		1455	180	0.	*	1		2110	255	0.
1		0230	31	2.	*	1		0845	106	23.	*	1		1500	181	0.	*	1		2115	256	0.
1		0235	32	2.	*	1		0850	107	19.	*	1		1505	182	0.	*	1		2120	257	0.
1		0240	33	3.	*	1		0855	108	15.	*	1		1510	183	0.	*	1		2125	258	0.
1		0245	34	3.	*	1		0900	109	13.	*	1		1515	184	0.	*	1		2130	259	0.
1		0250	35	4.	*	1		0905	110	10.	*	1		1520	185	0.	*	1		2135	260	0.
1		0255	36	5.	*	1		0910	111	8.	*	1		1525	186	0.	*	1		2140	261	0.
1		0300	37	5.	*	1		0915	112	7.	*	1		1530	187	0.	*	1		2145	262	0.
1		0305	38	6.	*	1		0920	113	5.	*	1		1535	188	0.	*	1		2150	263	0.
1		0310	39	11.	*	1		0925	114	4.	*	1		1540	189	0.	*	1		2155	264	0.
1		0315	40	23.	*	1		0930	115	3.	*	1		1545	190	0.	*	1		2200	265	0.
1		0320	41	53.	*	1		0935	116	2.	*	1		1550	191	0.	*	1		2205	266	0.
1		0325	42	112.	*	1		0940	117	2.	*	1		1555	192	0.	*	1		2210	267	0.

DA	MON	HRMN	ORD	FLOW		DA	MON	HRMN	ORD	FLOW		DA	MON	HRMN	ORD	FLOW		DA	MON	HRMN	ORD	FLOW
1		0330	43	211.	*	1		0945	118	1.	*	1		1600	193	0.	*	1		2215	268	0.
1		0335	44	346.	*	1		0950	119	1.	*	1		1605	194	0.	*	1		2220	269	0.
1		0340	45	474.	*	1		0955	120	1.	*	1		1610	195	0.	*	1		2225	270	0.
1		0345	46	566.	*	1		1000	121	1.	*	1		1615	196	0.	*	1		2230	271	0.
1		0350	47	650.	*	1		1005	122	0.	*	1		1620	197	0.	*	1		2235	272	0.
1		0355	48	760.	*	1		1010	123	0.	*	1		1625	198	0.	*	1		2240	273	0.
1		0400	49	912.	*	1		1015	124	0.	*	1		1630	199	0.	*	1		2245	274	0.
1		0405	50	1109.	*	1		1020	125	0.	*	1		1635	200	0.	*	1		2250	275	0.
1		0410	51	1332.	*	1		1025	126	0.	*	1		1640	201	0.	*	1		2255	276	0.
1		0415	52	1578.	*	1		1030	127	0.	*	1		1645	202	0.	*	1		2300	277	0.
1		0420	53	1858.	*	1		1035	128	0.	*	1		1650	203	0.	*	1		2305	278	0.
1		0425	54	2172.	*	1		1040	129	0.	*	1		1655	204	0.	*	1		2310	279	0.
1		0430	55	2522.	*	1		1045	130	0.	*	1		1700	205	0.	*	1		2315	280	0.
1		0435	56	2903.	*	1		1050	131	0.	*	1		1705	206	0.	*	1		2320	281	0.
1		0440	57	3285.	*	1		1055	132	0.	*	1		1710	207	0.	*	1		2325	282	0.
1		0445	58	3637.	*	1		1100	133	0.	*	1		1715	208	0.	*	1		2330	283	0.
1		0450	59	3944.	*	1		1105	134	0.	*	1		1720	209	0.	*	1		2335	284	0.
1		0455	60	4190.	*	1		1110	135	0.	*	1		1725	210	0.	*	1		2340	285	0.
1		0500	61	4355.	*	1		1115	136	0.	*	1		1730	211	0.	*	1		2345	286	0.
1		0505	62	4425.	*	1		1120	137	0.	*	1		1735	212	0.	*	1		2350	287	0.
1		0510	63	4408.	*	1		1125	138	0.	*	1		1740	213	0.	*	1		2355	288	0.
1		0515	64	4317.	*	1		1130	139	0.	*	1		1745	214	0.	*	2		0000	289	0.
1		0520	65	4172.	*	1		1135	140	0.	*	1		1750	215	0.	*	2		0005	290	0.
1		0525	66	3992.	*	1		1140	141	0.	*	1		1755	216	0.	*	2		0010	291	0.
1		0530	67	3794.	*	1		1145	142	0.	*	1		1800	217	0.	*	2		0015	292	0.
1		0535	68	3593.	*	1		1150	143	0.	*	1		1805	218	0.	*	2		0020	293	0.
1		0540	69	3400.	*	1		1155	144	0.	*	1		1810	219	0.	*	2		0025	294	0.
1		0545	70	3220.	*	1		1200	145	0.	*	1		1815	220	0.	*	2		0030	295	0.
1		0550	71	3056.	*	1		1205	146	0.	*	1		1820	221	0.	*	2		0035	296	0.
1		0555	72	2904.	*	1		1210	147	0.	*	1		1825	222	0.	*	2		0040	297	0.
1		0600	73	2758.	*	1		1215	148	0.	*	1		1830	223	0.	*	2		0045	298	0.
1		0605	74	2613.	*	1		1220	149	0.	*	1		1835	224	0.	*	2		0050	299	0.
1		0610	75	2463.	*	1		1225	150	0.	*	1		1840	225	0.	*	2		0055	300	0.
					*						*						*					

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW				
		6-HR	24-HR	72-HR	24.92-HR	
+ (CFS)	(HR)					
		(CFS)				
+ 4425.	5.08	1483.	371.	357.	357.	
		(INCHES)	.252	.252	.252	.252
		(AC-FT)	735.	736.	736.	736.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .88

DA	MON	HRMN	ORD	FLOW		DA	MON	HRMN	ORD	FLOW		DA	MON	HRMN	ORD	FLOW		DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	2257.	*	1		1230	151	0.	*	1		1845	226	0.
1		0005	2	0.	*	1		0620	77	2095.	*	1		1235	152	0.	*	1		1850	227	0.
1		0010	3	0.	*	1		0625	78	1927.	*	1		1240	153	0.	*	1		1855	228	0.
1		0015	4	0.	*	1		0630	79	1755.	*	1		1245	154	0.	*	1		1900	229	0.
1		0020	5	0.	*	1		0635	80	1583.	*	1		1250	155	0.	*	1		1905	230	0.
1		0025	6	0.	*	1		0640	81	1415.	*	1		1255	156	0.	*	1		1910	231	0.
1		0030	7	0.	*	1		0645	82	1256.	*	1		1300	157	0.	*	1		1915	232	0.
1		0035	8	0.	*	1		0650	83	1108.	*	1		1305	158	0.	*	1		1920	233	0.
1		0040	9	0.	*	1		0655	84	973.	*	1		1310	159	0.	*	1		1925	234	0.
1		0045	10	0.	*	1		0700	85	852.	*	1		1315	160	0.	*	1		1930	235	0.
1		0050	11	0.	*	1		0705	86	743.	*	1		1320	161	0.	*	1		1935	236	0.
1		0055	12	0.	*	1		0710	87	647.	*	1		1325	162	0.	*	1		1940	237	0.
1		0100	13	0.	*	1		0715	88	561.	*	1		1330	163	0.	*	1		1945	238	0.
1		0105	14	0.	*	1		0720	89	485.	*	1		1335	164	0.	*	1		1950	239	0.
1		0110	15	0.	*	1		0725	90	418.	*	1		1340	165	0.	*	1		1955	240	0.
1		0115	16	0.	*	1		0730	91	358.	*	1		1345	166	0.	*	1		2000	241	0.
1		0120	17	0.	*	1		0735	92	306.	*	1		1350	167	0.	*	1		2005	242	0.
1		0125	18	0.	*	1		0740	93	260.	*	1		1355	168	0.	*	1		2010	243	0.
1		0130	19	0.	*	1		0745	94	220.	*	1		1400	169	0.	*	1		2015	244	0.
1		0135	20	0.	*	1		0750	95	185.	*	1		1405	170	0.	*	1		2020	245	0.
1		0140	21	0.	*	1		0755	96	155.	*	1		1410	171	0.	*	1		2025	246	0.
1		0145	22	0.	*	1		0800	97	129.	*	1		1415	172	0.	*	1		2030	247	0.
1		0150	23	0.	*	1		0805	98	107.	*	1		1420	173	0.	*	1		2035	248	0.
1		0155	24	0.	*	1		0810	99	89.	*	1		1425	174	0.	*	1		2040	249	0.
1		0200	25	0.	*	1		0815	100	73.	*	1		1430	175	0.	*	1		2045	250	0.
1		0205	26	0.	*	1		0820	101	60.	*	1		1435	176	0.	*	1		2050	251	0.
1		0210	27	0.	*	1		0825	102	50.	*	1		1440	177	0.	*	1		2055	252	0.
1		0215	28	0.	*	1		0830	103	41.	*	1		1445	178	0.	*	1		2100	253	0.
1		0220	29	0.	*	1		0835	104	34.	*	1		1450	179	0.	*	1		2105	254	0.
1		0225	30	1.	*	1		0840	105	28.	*	1		1455	180	0.	*	1		2110	255	0.
1		0230	31	1.	*	1		0845	106	23.	*	1		1500	181	0.	*	1		2115	256	0.
1		0235	32	2.	*	1		0850	107	19.	*	1		1505	182	0.	*	1		2120	257	0.
1		0240	33	2.	*	1		0855	108	15.	*	1		1510	183	0.	*	1		2125	258	0.
1		0245	34	3.	*	1		0900	109	12.	*	1		1515	184	0.	*	1		2130	259	0.
1		0250	35	4.	*	1		0905	110	10.	*	1		1520	185	0.	*	1		2135	260	0.
1		0255	36	4.	*	1		0910	111	8.	*	1		1525	186	0.	*	1		2140	261	0.
1		0300	37	5.	*	1		0915	112	6.	*	1		1530	187	0.	*	1		2145	262	0.

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1	0740	93	139.	878.6	3191.4	*	1	1600	193	134.	796.5	3189.3	*	2	0020	293	128.	706.4	3187.0
1	0745	94	139.	879.7	3191.4	*	1	1605	194	133.	795.6	3189.3	*	2	0025	294	128.	705.6	3187.0
1	0750	95	139.	880.4	3191.4	*	1	1610	195	133.	794.7	3189.3	*	2	0030	295	128.	704.7	3187.0
1	0755	96	139.	880.9	3191.4	*	1	1615	196	133.	793.8	3189.2	*	2	0035	296	128.	703.8	3187.0
1	0800	97	139.	881.1	3191.4	*	1	1620	197	133.	792.9	3189.2	*	2	0040	297	128.	702.9	3186.9
1	0805	98	139.	881.1	3191.4	*	1	1625	198	133.	791.9	3189.2	*	2	0045	298	128.	702.0	3186.9
1	0810	99	139.	881.0	3191.4	*	1	1630	199	133.	791.0	3189.2	*	2	0050	299	128.	701.2	3186.9
1	0815	100	139.	880.7	3191.4	*	1	1635	200	133.	790.1	3189.1	*	2	0055	300	128.	700.3	3186.9
						*							*										

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PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
	(CFS)				
+ 139.	8.08	137.	113.	108.	108.
	(INCHES)	.023	.077	.077	.077
	(AC-FT)	68.	223.	223.	223.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
881.	8.08	861.	655.	631.	631.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3191.45	8.08	3190.93	3184.48	3183.62	3183.62

CUMULATIVE AREA = 54.73 SQ MI

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HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .98

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DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000		1	0.	.0	3161.0	1	0820		101	137.	850.5	3190.7	1	1640		201	131.	760.5	3188.4
1	0005		2	0.	.0	3161.0	1	0825		102	137.	850.0	3190.7	1	1645		202	131.	759.6	3188.4
1	0010		3	0.	.0	3161.0	1	0830		103	137.	849.4	3190.6	1	1650		203	131.	758.7	3188.4
1	0015		4	0.	.0	3161.0	1	0835		104	137.	848.8	3190.6	1	1655		204	131.	757.8	3188.3
1	0020		5	0.	.0	3161.0	1	0840		105	137.	848.1	3190.6	1	1700		205	131.	756.9	3188.3
1	0025		6	0.	.0	3161.0	1	0845		106	137.	847.4	3190.6	1	1705		206	131.	756.0	3188.3
1	0030		7	0.	.0	3161.0	1	0850		107	137.	846.6	3190.6	1	1710		207	131.	755.1	3188.3
1	0035		8	0.	.0	3161.0	1	0855		108	137.	845.8	3190.6	1	1715		208	131.	754.2	3188.2
1	0040		9	0.	.0	3161.0	1	0900		109	136.	845.0	3190.5	1	1720		209	131.	753.3	3188.2
1	0045		10	0.	.0	3161.0	1	0905		110	136.	844.1	3190.5	1	1725		210	131.	752.4	3188.2
1	0050		11	0.	.0	3161.0	1	0910		111	136.	843.2	3190.5	1	1730		211	131.	751.5	3188.2
1	0055		12	0.	.0	3161.0	1	0915		112	136.	842.4	3190.5	1	1735		212	131.	750.6	3188.2
1	0100		13	0.	.0	3161.0	1	0920		113	136.	841.5	3190.4	1	1740		213	131.	749.7	3188.1
1	0105		14	0.	.0	3161.0	1	0925		114	136.	840.6	3190.4	1	1745		214	131.	748.8	3188.1
1	0110		15	0.	.0	3161.0	1	0930		115	136.	839.7	3190.4	1	1750		215	131.	747.9	3188.1
1	0115		16	0.	.0	3161.0	1	0935		116	136.	838.7	3190.4	1	1755		216	131.	747.0	3188.1
1	0120		17	0.	.0	3161.0	1	0940		117	136.	837.8	3190.4	1	1800		217	130.	746.1	3188.0
1	0125		18	0.	.0	3161.0	1	0945		118	136.	836.9	3190.3	1	1805		218	130.	745.2	3188.0
1	0130		19	0.	.0	3161.0	1	0950		119	136.	836.0	3190.3	1	1810		219	130.	744.3	3188.0
1	0135		20	0.	.0	3161.0	1	0955		120	136.	835.0	3190.3	1	1815		220	130.	743.4	3188.0
1	0140		21	0.	.0	3161.0	1	1000		121	136.	834.1	3190.3	1	1820		221	130.	742.5	3187.9
1	0145		22	0.	.0	3161.0	1	1005		122	136.	833.2	3190.2	1	1825		222	130.	741.6	3187.9
1	0150		23	0.	.0	3161.0	1	1010		123	136.	832.3	3190.2	1	1830		223	130.	740.7	3187.9
1	0155		24	0.	.0	3161.0	1	1015		124	136.	831.3	3190.2	1	1835		224	130.	739.8	3187.9
1	0200		25	0.	.0	3161.0	1	1020		125	136.	830.4	3190.2	1	1840		225	130.	738.9	3187.9
1	0205		26	0.	.0	3161.0	1	1025		126	136.	829.5	3190.1	1	1845		226	130.	738.0	3187.8
1	0210		27	0.	.0	3161.0	1	1030		127	135.	828.5	3190.1	1	1850		227	130.	737.1	3187.8
1	0215		28	0.	.0	3161.0	1	1035		128	135.	827.6	3190.1	1	1855		228	130.	736.2	3187.8
1	0220		29	0.	.0	3161.0	1	1040		129	135.	826.7	3190.1	1	1900		229	130.	735.3	3187.8
1	0225		30	0.	.0	3161.0	1	1045		130	135.	825.7	3190.0	1	1905		230	130.	734.4	3187.7
1	0230		31	0.	.1	3161.0	1	1050		131	135.	824.8	3190.0	1	1910		231	130.	733.6	3187.7
1	0235		32	0.	.1	3161.0	1	1055		132	135.	823.9	3190.0	1	1915		232	130.	732.7	3187.7
1	0240		33	0.	.1	3161.0	1	1100		133	135.	822.9	3190.0	1	1920		233	130.	731.8	3187.7
1	0245		34	0.	.2	3161.0	1	1105		134	135.	822.0	3190.0	1	1925		234	130.	730.9	3187.7
1	0250		35	0.	.2	3161.0	1	1110		135	135.	821.1	3189.9	1	1930		235	130.	730.0	3187.6
1	0255		36	0.	.2	3161.0	1	1115		136	135.	820.1	3189.9	1	1935		236	129.	729.1	3187.6
1	0300		37	0.	.3	3161.0	1	1120		137	135.	819.2	3189.9	1	1940		237	129.	728.2	3187.6
1	0305		38	0.	.4	3161.0	1	1125		138	135.	818.3	3189.9	1	1945		238	129.	727.3	3187.6
1	0310		39	0.	.4	3161.0	1	1130		139	135.	817.4	3189.8	1	1950		239	129.	726.4	3187.5
1	0315		40	1.	.6	3161.1	1	1135		140	135.	816.4	3189.8	1	1955		240	129.	725.5	3187.5
1	0320		41	1.	1.0	3161.1	1	1140		141	135.	815.5	3189.8	1	2000		241	129.	724.6	3187.5
1	0325		42	2.	1.8	3161.2	1	1145		142	135.	814.6	3189.8	1	2005		242	129.	723.8	3187.5
1	0330		43	4.	3.3	3161.4	1	1150		143	135.	813.6	3189.7	1	2010		243	129.	722.9	3187.5
1	0335		44	6.	5.8	3161.6	1	1155		144	135.	812.7	3189.7	1	2015		244	129.	722.0	3187.4
1	0340		45	10.	9.5	3162.0	1	1200		145	134.	811.8	3189.7	1	2020		245	129.	721.1	3187.4
1	0345		46	12.	14.2	3162.3	1	1205		146	134.	810.9	3189.7	1	2025		246	129.	720.2	3187.4
1	0350		47	15.	19.5	3162.5	1	1210		147	134.	809.9	3189.6	1	2030		247	129.	719.3	3187.4
1	0355		48	18.	25.8	3162.9	1	1215		148	134.	809.0	3189.6	1	2035		248	129.	718.4	3187.3
1	0400		49	22.	33.1	3163.2	1	1220		149	134.	808.1	3189.6	1	2040		249	129.	717.5	3187.3
1	0405		50	26.	42.0	3163.7	1	1225		150	134.	807.2	3189.6	1	2045		250	129.	716.6	3187.3
1	0410		51	31.	52.7	3164.2	1	1230		151	134.	806.2	3189.6	1	2050		251	129.	715.8	3187.3
1	0415		52	37.	65.4	3164.9	1	1235		152	134.	805.3	3189.5	1	2055		252	129.	714.9	3187.2
1	0420		53	44.	80.3	3165.6	1	1240		153	134.	804.4	3189.5	1	2100		253	129.	714.0	3187.2
1	0425		54	52.	97.6	3166.5	1	1245		154	134.	803.5	3189.5	1	2105		254	128.	713.1	3187.2
1	0430		55	59.	117.7	3167.4	1	1250		155	134.	802.5	3189.5	1	2110		255	128.	712.2	3187.2
1	0435		56	63.	140.8	3168.4	1	1255		156	134.	801.6	3189.4	1	2115		256	128.	711.3	3187.2
1	0440		57	68.	167.1	3169.4	1	1300		157	134.	800.7	3189.4	1	2120		257	128.	710.5	3187.1
1	0445		58	74.	196.3	3170.6	1	1305		158	134.	799.8	3189.4	1	2125		258	128.	709.6	3187.1
1	0450		59	79.	228.2	3171.9	1	1310		159	134.	798.9	3189.4	1	2130		259	128.	708.7	3187.1
1	0455		60	84.	262.2	3173.1	1	1315		160	134.	797.9	3189.3	1	2135		260	128.	707.8	3187.1
1	0500		61	89.	297.8	3174.4	1	1320		161	134.	797.0	3189.3	1	2140		261	128.	706.9	3187.0
1	0505		62	94.	334.1	3175.7	1	1325		162	134.	796.1	3189.3	1	2145		262	128.	706.0	3187.0
1	0510		63	99.	370.5	3176.9	1	1330		163	133.	795.2	3189.3	1	2150		263	128.	705.2	3187.0
1	0515		64	102.	406.3	3178.1	1	1335		164	133.	794.3	3189.3	1	2155		264	128.	704.3	3187.0
1	0520		65	106.	440.9	3179.2	1	1340		165	133.	793.3	3189.2	1	2200		265	128.	703.4	3187.0
1	0525		66	109.	474.1	3180.3	1	1345		166	133.	792.4	3189.2	1	2205		266	128.	702.5	3186.9
1	0530		67	112.	505.5	3181.3	1	1350		167	133.	791.5	3189.2	1	2210		267	128.	701.6	3186.9
1	0535		68	114.	535.2	3182.2	1	1355		168	133.	790.6	3189.2	1	2215		268	128.	700.8	3186.9
1	0540		69	117.	563.2	3183.0	1	1400		169	133.	789.7	3189.1	1	2220		269	128.	699.9	3186.9
1	0545		70	119.	589.5	3183.7	1	1405		170	133.	788.8	3189.1	1	2225		270	128.	699.0	3186.8
1	0550		71	121.	614.3	3184.4	1	1410		171	133.	787.8	3189.1	1	2230		271	127.	698.1	3186.8
1	0555		72	123.	637.8	3185.1	1	1415		172	133.	786.9	3189.1	1	2235		272	127.	697.2	3186.8
1	0600		73	124.	660.0	3185.7	1	1420		173	133.	786.0	3189.0	1	2240		273	127.	696.4	3186.8
1	0605		74	126.	680.9	3186.3	1	1425		174	133.	785.1	3189.0	1	2245		274	127.	695.5	3186.7
1	0610		75	128.	700.6	3186.9	1	1430		175	133.	784.2	3189.0	1	2250		275	127.	694.6	3186.7
1	0615		76	129.	719.0	3187.4	1	1435		176	133.	783.3	3189.0	1	2255		276	127.	693.7	3186.7
1	0620		77	130.	736.1	3187.8	1	1440		177	133.	782.4	3189.0	1	2300		277	127.	692.9	3186.7
1	0625		78	131.	751.8	3188.2	1	1445		178	133.	781.4	3188.9	1	2305		278	127.	692.0	3186.6
1	0630		79	132.	766.0	3188.5	1	1450		179	133.	780.5	3188.9	1	2310		279	127.	691.1	3186.6
1	0635		80	132.	778.8	3188.9	1	1455		180	133.	779.6	3188.9	1	2315		280	127.	690.2	3186.6
1	0640		81	133.	790.2	3189.2	1	1500		181	132.	778.7	3188.9	1	2320		281	127.	689.4	3186.6
1	0645		82	134.	800.3	3189.4	1	1505		182	132.	777.8	3188.8	1	2325		282	127.	688.5	3186.5
1	0650		83	134.	809.0	3189.6	1	1510		183	132.	776.9	3188.8	1	2330		283	127.	687.6	3186.5
1	0655		84	135.	816.6	3189.8	1	1515		184	132.	776.0	3188.8	1	2335		284	127.	686.7	3186.5
1	0700		85	135.	823.2	3190.0	1	1520		185	132.	775.1	3188.8	1	2340		285	126.	685.9	3186.5
1	0705		86	136.	828.8	3190.1	1	1525		186	132.	774.1	3188.7	1	2345		286	126.	685.0	3186.4
1	0710		87	136.	833.5	3190.2	1	1530		187	132.	773.2	3188.7	1	2350		287	126.	684.1	3186.4
1	0715		88	136.	837.5	3190.3	1	1535		188	132.	772.3	3188.7	1	2355		288	126.	683.3	3186.4
1	0720		89	136.	840.8	3190.4	1	1540		189	132.	771.4	3188.7	2	0000		289	126.	682.4	3186.4
1	0725		90	136.	843.6	3190.5	1	1545		190	132.	770.5	3188.7	2	0005		290	126.	681.5	3186.3
1	0730		91	137.	845.8	3190.6	1	1550		191	132.	769.6	3188.6	2	0010		291	126.	680.7	3186.3
1	0735		92	137.	847.6	3190.6	1	1555		192	132.	768.7	3188.6	2	0015		292	126.	679.8	3186.3
1	0740		93	137.	848.9	3190.6	1	1600		193	132.	767.8	3188.6	2	0020		293	126.	678.9	3186.3
1	0745		94	137.	850.0	3190.7	1	1605		194	132.	766.9	3188.6	2	0025		294	126.	678.1	3186.2
1	0750		95	137.	850.7	3190.7	1	1610		195	132.	766.0	3188.5	2	0030		295	126.	677.2	3186.2
1	0755		96	137.	851.1	3190.7	1	1615		196	132.	765.1	3188.5	2	0035		296	126.	676.3	3186.2
1	0800		97	137.	851.3	3190.7	1	1620		197	132.	764.2	3188.5	2	0040		297	126.	675.5	3186.2
1	0805		98	137.	851.3	3190.7	1	1625		198	132.	763.2	3188.5	2	0045		298	126.	674.6	3186.1
1	0810		99	137.	851.2	3190.7	1	1630		199	131.	762.3	3188.4	2	0050		299	126.	673.7	3186.1
1	0815	100		137.	850.9	3190.7	1	1635		200	131.	761.4	3188.4	2	0055		300	125.	672.9	3186.1
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PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
	(CFS)				
+ 137.	8.08	136.	111.	107.	107.
	(INCHES)	.023	.075	.075	.075
	(AC-FT)	67.	220.	220.	220.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
851.	8.08	831.	631.	608.	608.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3190.70	8.08	3190.18	3183.87	3183.02	3183.02

CUMULATIVE AREA = 54.73 SQ MI

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HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .95

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DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000		1	0.	.0	3161.0	1	0820		101	134.	801.5	3189.4	1	1640		201	129.	713.5	3187.2
1	0005		2	0.	.0	3161.0	1	0825		102	134.	801.0	3189.4	1	1645		202	128.	712.6	3187.2
1	0010		3	0.	.0	3161.0	1	0830		103	134.	800.5	3189.4	1	1650		203	128.	711.7	3187.2
1	0015		4	0.	.0	3161.0	1	0835		104	134.	799.8	3189.4	1	1655		204	128.	710.8	3187.1
1	0020		5	0.	.0	3161.0	1	0840		105	134.	799.2	3189.4	1	1700		205	128.	709.9	3187.1
1	0025		6	0.	.0	3161.0	1	0845		106	134.	798.4	3189.4	1	1705		206	128.	709.1	3187.1
1	0030		7	0.	.0	3161.0	1	0850		107	134.	797.7	3189.3	1	1710		207	128.	708.2	3187.1
1	0035		8	0.	.0	3161.0	1	0855		108	134.	796.9	3189.3	1	1715		208	128.	707.3	3187.1
1	0040		9	0.	.0	3161.0	1	0900		109	134.	796.1	3189.3	1	1720		209	128.	706.4	3187.0
1	0045		10	0.	.0	3161.0	1	0905		110	133.	795.2	3189.3	1	1725		210	128.	705.5	3187.0
1	0050		11	0.	.0	3161.0	1	0910		111	133.	794.4	3189.3	1	1730		211	128.	704.6	3187.0
1	0055		12	0.	.0	3161.0	1	0915		112	133.	793.5	3189.2	1	1735		212	128.	703.8	3187.0
1	0100		13	0.	.0	3161.0	1	0920		113	133.	792.7	3189.2	1	1740		213	128.	702.9	3186.9
1	0105		14	0.	.0	3161.0	1	0925		114	133.	791.8	3189.2	1	1745		214	128.	702.0	3186.9

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DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE		DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE		DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0545	70	113.	518.1	3181.7	*	1	1405	170	127.	694.3	3186.7	*	1	2225	270	120.	609.1	3184.3
1	0550	71	115.	540.4	3182.3	*	1	1410	171	127.	693.4	3186.7	*	1	2230	271	120.	608.3	3184.3
1	0555	72	117.	561.6	3182.9	*	1	1415	172	127.	692.5	3186.6	*	1	2235	272	120.	607.4	3184.2
1	0600	73	118.	581.6	3183.5	*	1	1420	173	127.	691.7	3186.6	*	1	2240	273	120.	606.6	3184.2
1	0605	74	120.	600.5	3184.0	*	1	1425	174	127.	690.8	3186.6	*	1	2245	274	120.	605.8	3184.2
1	0610	75	121.	618.3	3184.5	*	1	1430	175	127.	689.9	3186.6	*	1	2250	275	120.	604.9	3184.2
1	0615	76	122.	634.9	3185.0	*	1	1435	176	127.	689.0	3186.5	*	1	2255	276	120.	604.1	3184.1
1	0620	77	124.	650.3	3185.4	*	1	1440	177	127.	688.2	3186.5	*	1	2300	277	120.	603.3	3184.1
1	0625	78	125.	664.5	3185.9	*	1	1445	178	127.	687.3	3186.5	*	1	2305	278	120.	602.5	3184.1
1	0630	79	126.	677.4	3186.2	*	1	1450	179	127.	686.4	3186.5	*	1	2310	279	120.	601.6	3184.1
1	0635	80	127.	689.0	3186.5	*	1	1455	180	126.	685.6	3186.4	*	1	2315	280	120.	600.8	3184.0
1	0640	81	128.	699.4	3186.8	*	1	1500	181	126.	684.7	3186.4	*	1	2320	281	120.	600.0	3184.0
1	0645	82	128.	708.5	3187.1	*	1	1505	182	126.	683.8	3186.4	*	1	2325	282	120.	599.2	3184.0
1	0650	83	129.	716.4	3187.3	*	1	1510	183	126.	682.9	3186.4	*	1	2330	283	120.	598.3	3184.0
1	0655	84	129.	723.3	3187.5	*	1	1515	184	126.	682.1	3186.3	*	1	2335	284	119.	597.5	3183.9
1	0700	85	129.	729.2	3187.6	*	1	1520	185	126.	681.2	3186.3	*	1	2340	285	119.	596.7	3183.9
1	0705	86	130.	734.3	3187.7	*	1	1525	186	126.	680.3	3186.3	*	1	2345	286	119.	595.9	3183.9
1	0710	87	130.	738.5	3187.8	*	1	1530	187	126.	679.5	3186.3	*	1	2350	287	119.	595.1	3183.9
1	0715	88	130.	742.1	3187.9	*	1	1535	188	126.	678.6	3186.3	*	1	2355	288	119.	594.2	3183.9
1	0720	89	130.	745.1	3188.0	*	1	1540	189	126.	677.7	3186.2	*	2	0000	289	119.	593.4	3183.8
1	0725	90	131.	747.6	3188.1	*	1	1545	190	126.	676.9	3186.2	*	2	0005	290	119.	592.6	3183.8
1	0730	91	131.	749.6	3188.1	*	1	1550	191	126.	676.0	3186.2	*	2	0010	291	119.	591.8	3183.8
1	0735	92	131.	751.2	3188.2	*	1	1555	192	126.	675.1	3186.2	*	2	0015	292	119.	591.0	3183.8
1	0740	93	131.	752.4	3188.2	*	1	1600	193	126.	674.3	3186.1	*	2	0020	293	119.	590.1	3183.7
1	0745	94	131.	753.3	3188.2	*	1	1605	194	125.	673.4	3186.1	*	2	0025	294	119.	589.3	3183.7
1	0750	95	131.	753.9	3188.2	*	1	1610	195	125.	672.5	3186.1	*	2	0030	295	119.	588.5	3183.7
1	0755	96	131.	754.2	3188.2	*	1	1615	196	125.	671.7	3186.1	*	2	0035	296	119.	587.7	3183.7
1	0800	97	131.	754.4	3188.2	*	1	1620	197	125.	670.8	3186.0	*	2	0040	297	119.	586.9	3183.6
1	0805	98	131.	754.3	3188.2	*	1	1625	198	125.	670.0	3186.0	*	2	0045	298	119.	586.0	3183.6
1	0810	99	131.	754.2	3188.2	*	1	1630	199	125.	669.1	3186.0	*	2	0050	299	118.	585.2	3183.6
1	0815	100	131.	753.9	3188.2	*	1	1635	200	125.	668.2	3186.0	*	2	0055	300	118.	584.4	3183.6
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PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 131.	8.00	130.	106.	102.	102.
		(INCHES) .022	.072	.072	.072
		(AC-FT) 64.	209.	209.	209.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
754.	8.00	735.	555.	534.	534.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3188.25	8.00	3187.76	3181.81	3181.04	3181.04

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .92

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE		DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE		DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000	1	0.	.0	3161.0	*	1	0820	101	130.	734.5	3187.7	*	1	1640	201	124.	649.3	3185.4
1	0005	2	0.	.0	3161.0	*	1	0825	102	130.	734.0	3187.7	*	1	1645	202	123.	648.4	3185.4
1	0010	3	0.	.0	3161.0	*	1	0830	103	130.	733.5	3187.7	*	1	1650	203	123.	647.6	3185.4
1	0015	4	0.	.0	3161.0	*	1	0835	104	130.	732.8	3187.7	*	1	1655	204	123.	646.7	3185.3
1	0020	5	0.	.0	3161.0	*	1	0840	105	130.	732.2	3187.7	*	1	1700	205	123.	645.9	3185.3
1	0025	6	0.	.0	3161.0	*	1	0845	106	130.	731.5	3187.7	*	1	1705	206	123.	645.0	3185.3
1	0030	7	0.	.0	3161.0	*	1	0850	107	130.	730.7	3187.6	*	1	1710	207	123.	644.2	3185.3
1	0035	8	0.	.0	3161.0	*	1	0855	108	130.	729.9	3187.6	*	1	1715	208	123.	643.3	3185.2
1	0040	9	0.	.0	3161.0	*	1	0900	109	129.	729.1	3187.6	*	1	1720	209	123.	642.5	3185.2
1	0045	10	0.	.0	3161.0	*	1	0905	110	129.	728.3	3187.6	*	1	1725	210	123.	641.6	3185.2
1	0050	11	0.	.0	3161.0	*	1	0910	111	129.	727.5	3187.6	*	1	1730	211	123.	640.8	3185.2
1	0055	12	0.	.0	3161.0	*	1	0915	112	129.	726.7	3187.5	*	1	1735	212	123.	639.9	3185.2
1	0100	13	0.	.0	3161.0	*	1	0920	113	129.	725.8	3187.5	*	1	1740	213	123.	639.1	3185.1
1	0105	14	0.	.0	3161.0	*	1	0925	114	129.	725.0	3187.5	*	1	1745	214	123.	638.3	3185.1
1	0110	15	0.	.0	3161.0	*	1	0930	115	129.	724.1	3187.5	*	1	1750	215	123.	637.4	3185.1
1	0115	16	0.	.0	3161.0	*	1	0935	116	129.	723.2	3187.5	*	1	1755	216	123.	636.6	3185.1
1	0120	17	0.	.0	3161.0	*	1	0940	117	129.	722.4	3187.4	*	1	1800	217	122.	635.7	3185.0
1	0125	18	0.	.0	3161.0	*	1	0945	118	129.	721.5	3187.4	*	1	1805	218	122.	634.9	3185.0
1	0130	19	0.	.0	3161.0	*	1	0950	119	129.	720.6	3187.4	*	1	1810	219	122.	634.0	3185.0
1	0135	20	0.	.0	3161.0	*	1	0955	120	129.	719.7	3187.4	*	1	1815	220	122.	633.2	3185.0
1	0140	21	0.	.0	3161.0	*	1	1000	121	129.	718.8	3187.3	*	1	1820	221	122.	632.3	3184.9
1	0145	22	0.	.0	3161.0	*	1	1005	122	129.	718.0	3187.3	*	1	1825	222	122.	631.5	3184.9
1	0150	23	0.	.0	3161.0	*	1	1010	123	129.	717.1	3187.3	*	1	1830	223	122.	630.7	3184.9
1	0155	24	0.	.0	3161.0	*	1	1015	124	129.	716.2	3187.3	*	1	1835	224	122.	629.8	3184.9
1	0200	25	0.	.0	3161.0	*	1	1020	125	129.	715.3	3187.3	*	1	1840	225	122.	629.0	3184.8
1	0205	26	0.	.0	3161.0	*	1	1025	126	129.	714.4	3187.2	*	1	1845	226	122.	628.1	3184.8
1	0210	27	0.	.0	3161.0	*	1	1030	127	129.	713.5	3187.2	*	1	1850	227	122.	627.3	3184.8
1	0215	28	0.	.0	3161.0	*	1	1035	128	128.	712.7	3187.2	*	1	1855	228	122.	626.5	3184.8
1	0220	29	0.	.0	3161.0	*	1	1040	129	128.	711.8	3187.2	*	1	1900	229	122.	625.6	3184.7
1	0225	30	0.	.0	3161.0	*	1	1045	130	128.	710.9	3187.1	*	1	1905	230	122.	624.8	3184.7
1	0230	31	0.	.0	3161.0	*	1	1050	131	128.	710.0	3187.1	*	1	1910	231	122.	624.0	3184.7
1	0235	32	0.	.0	3161.0	*	1	1055	132	128.	709.1	3187.1	*	1	1915	232	121.	623.1	3184.7
1	0240	33	0.	.1	3161.0	*	1	1100	133	128.	708.2	3187.1	*	1	1920	233	121.	622.3	3184.7
1	0245	34	0.	.1	3161.0	*	1	1105	134	128.	707.4	3187.1	*	1	1925	234	121.	621.4	3184.6
1	0250	35	0.	.1	3161.0	*	1	1110	135	128.	706.5	3187.0	*	1	1930	235	121.	620.6	3184.6
1	0255	36	0.	.1	3161.0	*	1	1115	136	128.	705.6	3187.0	*	1	1935	236	121.	619.8	3184.6
1	0300	37	0.	.2	3161.0	*	1	1120	137	128.	704.7	3187.0	*	1	1940	237	121.	618.9	3184.6
1	0305	38	0.	.2	3161.0	*	1	1125	138	128.	703.8	3187.0	*	1	1945	238	121.	618.1	3184.5
1	0310	39	0.	.3	3161.0	*	1	1130	139	128.	702.9	3186.9	*	1	1950	239	121.	617.3	3184.5
1	0315	40	0.	.4	3161.0	*	1	1135	140	128.	702.1	3186.9	*	1	1955	240	121.	616.4	3184.5
1	0320	41	1.	.7	3161.1	*	1	1140	141	128.	701.2	3186.9	*	1	2000	241	121.	615.6	3184.5
1	0325	42	1.	1.3	3161.1	*	1	1145	142	128.	700.3	3186.9	*	1	2005	242	121.	614.8	3184.4
1	0330	43	3.	2.5	3161.3	*	1	1150	143	128.	699.4	3186.8	*	1	2010	243	121.	613.9	3184.4
1	0335	44	5.	4.5	3161.5	*	1	1155	144	127.	698.5	3186.8	*	1	2015	244	121.	613.1	3184.4
1	0340	45	8.	7.5	3161.8	*	1	1200	145	127.	697.7	3186.8	*	1	2020	245	121.	612.3	3184.4
1	0345	46	11.	11.3	3162.1	*	1	1205	146	127.	696.8	3186.8	*	1	2025	246	121.	611.4	3184.3
1	0350	47	13.	15.7	3162.3	*	1	1210	147	127.	695.9	3186.7	*	1	2030	247	120.	610.6	3184.3
1	0355	48	16.	20.8	3162.6	*	1	1215	148	127.	695.0	3186.7	*	1	2035	248	120.	609.8	3184.3
1	0400	49	19.	26.9	3162.9	*	1	1220	149	127.	694.2	3186.7	*	1	2040	249	120.	609.0	3184.3
1	0405	50	22.	34.2	3163.3	*	1	1225	150	127.	693.3	3186.7	*	1	2045	250	120.	608.1	3184.2
1	0410	51	26.	43.0	3163.7	*	1	1230	151	127.	692.4	3186.6	*	1	2050	251	120.	607.3	3184.2
1	0415	52	31.	53.5	3164.3	*	1	1235	152	127.	691.5	3186.6	*	1	2055	252	120.	606.5	3184.2
1	0420	53	37.	65.9	3164.9	*	1	1240	153	127.	690.7	3186.6	*	1	2100	253	120.	605.6	3184.2
1	0425	54	44.	80.4	3165.6	*	1	1245	154	127.	689.8	3186.6	*	1	2105	254	120.	604.8	3184.2
1	0430	55	52.	97.3	3166.5	*	1	1250	155	127.	688.9	3186.5	*	1	2110	255	120.	604.0	3184.1
1	0435	56	59.	116.8	3167.4	*	1	1255	156	127.	688.0	3186.5	*	1	2115	256	120.	603.2	3184.1
1	0440	57	63.	139.0	3168.3	*	1	1300	157	127.	687.2	3186.5	*	1	2120	257	120.	602.3	3184.1
1	0445	58	68.	163.8	3169.3	*	1	1305	158	127.	686.3	3186.5	*	1	2125	258	120.	601.5	3184.1
1	0450	59	73.	191.0	3170.4	*	1	1310	159	126.	685.4	3186.4	*	1	2130	259	120.	600.7	3184.0
1	0455	60	78.	220.1	3171.6	*	1	1315	160	126.	684.6	3186.4	*	1	2135	260	120.	599.9	3184.0
1	0500	61	83.	250.6	3172.7	*	1	1320	161	126.	683.7	3186.4	*	1	2140	261	120.	599.0	3184.0
1	0505	62	87.	281.9	3173.8	*	1	1325	162	126.	682.8	3186.4	*	1	2145	262	120.	598.2	3184.0
1	0510	63	91.	313.3	3174.9	*	1	1330	163	126.	682.0	3186.3	*	1	2150	263	119.	597.4	3183.9
1	0515	64	95.	344.3	3176.0	*	1	1335	164	126.	681.1	3186.3	*	1	2155	264	119.	596.6	3183.9
1	0520	65	99.	374.4	3177.1	*	1	1340	165	126.	680.2	3186.3	*	1	2200	265	119.	595.8	3183.9
1	0525	66	102.	403.2	3178.0	*	1	1345	166	126.	679.3	3186.3	*	1	2205	266	119.	594.9	3183.9
1	0530	67	105.	430.7	3178.9	*	1	1350	167	126.	678.5	3186.2	*	1	2210	267	119.	594.1	3183.8
1	0535	68	107.	456.6	3179.7	*	1	1355	168	126.	677.6	3186.2	*	1	2215	268	119.	593.3	3183.8
1	0540	69	109.	481.1	3180.5	*	1	1400	169	126.	676.7	3186.2	*	1	2220	269	119.	592.5	3183.8
1	0545	70	112.	504.2	3181.2	*	1	1405	170	126.	675.9	3186.2	*	1	2225	270	119.	591.7	3183.8
1	0550	71	114.	526.0	3181.9	*	1	1410	171	126.	675.0	3186.1	*	1	2230	271	119.	590.8	3183.8
1	0555	72	115.	546.7	3182.5	*	1	1415	172	126.	674.2	3186.1	*	1	2235	272	119.	590.0	3183.7
1	0600	73	117.	566.3	3183.1	*	1	1420	173	125.	673.3	3186.1	*	1	2240	273	119.	589.2	3183.7
1	0605	74	118.	584.8	3183.6	*	1	1425	174	125.	672.4	3186.1	*	1	2245	274	119.	588.4	3183.7
1	0610	75	120.	602.2	3184.1	*	1	1430	175	125.	671.6	3186.1	*	1	2250	275	119.	587.6	3183.7
1	0615	76	121.	618.5	3184.5	*	1	1435	176	125.	670.7	3186.0	*	1	2255	276	119.	586.7	3183.6
1	0620	77	122.	633.6	3185.0	*	1	1440	177	125.	669.8	3186.0	*	1	2300	277	119.	585.9	3183.6
1	0625	78	123.	647.5	3185.4	*	1	1445	178	125.	669.0	3186.0	*	1	2305	278	118.	585.1	3183.6
1	0630	79	124.	660.1	3185.7	*	1	1450	179	125.	668.1	3186.0	*	1	2310	279	118.	584.3	3183.6
1	0635	80	125.	671.5	3186.0	*	1	1455	180	125.	667.3	3185.9	*	1	2315	280	118.	583.5	3183.5
1	0640	81	126.	681.6	3186.3	*	1	1500	181	125.	666.4	3185.9	*	1	2320	281	118.	582.7	3183.5
1	0645	82	127.	690.5	3186.6	*	1	1505	182	125.	665.5	3185.9	*	1	2325	282	118.	581.9	3183.5
1	0650	83	127.	698.3	3186.8	*	1	1510	183	125.	664.7	3185.9	*	1	2330	283	118.	581.0	3183.5
1	0655	84	128.	705.1	3187.0	*	1	1515	184	125.	663.8	3185.8	*	1	2335	284	118.	580.2	3183.5
1	0700	85	128.	710.8	3187.1	*	1	1520	185	125.	663.0	3185.8	*	1	2340	285	118.	579.4	3183.4
1	0705	86	129.	715.8	3187.3	*	1	1525	186	125.	662.1	3185.8	*	1	2345	286	118.	578.6	3183.4
1	0710	87	129.	720.0	3187.4	*	1	1530	187	125.	661.2	3185.8	*	1	2350	287	118.	577.8	3183.4
1	0715	88	129.	723.5	3187.5	*	1	1535	188	124.	660.4	3185.7	*	1	2355	288	118.	577.0	3183.4
1	0720	89	129.	726.4	3187.5	*	1	1540	189	124.	659.5	3185.7	*	2	0000	289	118.	576.2	3183.3
1	0725	90	129.	728.9	3187.6	*	1	1545	190	124.	658.7	3185.7	*	2	0005	290	118.	575.4	3183.3
1	0730	91	130.	730.8	3187.7	*	1	1550	191	124.	657.8	3185.7	*	2	0010	291	118.	574.5	3183.3
1	0735	92	130.	732.3	3187.7	*	1	1555	192	124.	657.0	3185.6	*	2	0015	292	118.	573.7	3183.3
1	0740	93	130.	733.5	3187.7	*	1	1600	193	124.	656.1	3185.6	*	2	0020	293	117.	572.9	3183.2
1	0745	94	130.	734.4	3187.7	*	1	1605	194	124.	655.2	3185.6	*	2	0025	294	117.	572.1	3183.2
1	0750	95	130.	734.9	3187.8	*	1	1610	195	124.	654.4	3185.6	*	2	0030	295	117.	571.3	3183.2
1	0755	96	130.	735.3	3187.8	*	1	1615	196	124.	653.5	3185.5	*	2	0035	296	117.	570.5	3183.2
1	0800	97	130.	735.4	3187.8	*	1	1620	197	124.	652.7	3185.5	*	2	0040	297	117.	569.7	3183.2
1	0805	98	130.	735.4	3187.8	*	1	1625	198	124.	651.8	3185.5	*	2	0045	298	117.	568.9	3183.1
1	0810	99	130.	735.2	3187.8	*	1	1630	199	124.	651.0	3185.5	*	2	0050	299	117.	568.1	3183.1
1	0815	100	130.	734.9	3187.8	*	1	1635	200	124.	650.1	3185.4	*	2	0055	300	117.	567.3	3183.1
						*							*									

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 130.	8.00	129.	104.	101.	101.
		(INCHES) .022	.071	.071	.071
		(AC-FT) 64.	207.	207.	207.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
735.	8.00	716.	540.	520.	520.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3187.77	8.00	3187.28	3181.39	3180.64	3180.64

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .91

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	3161.0
1		0005	2	0.	.0	3161.0
1		0010	3	0.	.0	3161.0
1		0015	4	0.	.0	3161.0
1		0020	5	0.	.0	3161.0
1		0025	6	0.	.0	3161.0
1		0030	7	0.	.0	3161.0
1		0035	8	0.	.0	3161.0
1		0040	9	0.	.0	3161.0
1		0045	10	0.	.0	3161.0
1		0050	11	0.	.0	3161.0
1		0055	12	0.	.0	3161.0
1		0100	13	0.	.0	3161.0
1		0105	14	0.	.0	3161.0
1		0110	15	0.	.0	3161.0
1		0115	16	0.	.0	3161.0
1		0120	17	0.	.0	3161.0
1		0125	18	0.	.0	3161.0
1		0130	19	0.	.0	3161.0
1		0135	20	0.	.0	3161.0
1		0140	21	0.	.0	3161.0
1		0145	22	0.	.0	3161.0
1		0150	23	0.	.0	3161.0
1		0155	24	0.	.0	3161.0
1		0200	25	0.	.0	3161.0
1		0205	26	0.	.0	3161.0
1		0210	27	0.	.0	3161.0
1		0215	28	0.	.0	3161.0
1		0220	29	0.	.0	3161.0
1		0225	30	0.	.0	3161.0
1		0230	31	0.	.0	3161.0
1		0235	32	0.	.0	3161.0
1		0240	33	0.	.1	3161.0
1		0245	34	0.	.1	3161.0
1		0250	35	0.	.1	3161.0
1		0255	36	0.	.1	3161.0
1		0300	37	0.	.2	3161.0
1		0305	38	0.	.2	3161.0
1		0310	39	0.	.3	3161.0
1		0315	40	0.	.4	3161.0
1		0320	41	1.	.7	3161.1
1		0325	42	1.	1.3	3161.1
1		0330	43	3.	2.4	3161.3
1		0335	44	5.	4.4	3161.5
1		0340	45	8.	7.3	3161.8
1		0345	46	11.	11.0	3162.1
1		0350	47	13.	15.3	3162.3
1		0355	48	15.	20.3	3162.6
1		0400	49	18.	26.2	3162.9
1		0405	50	22.	33.3	3163.2
1		0410	51	26.	41.9	3163.7
1		0415	52	31.	52.2	3164.2
1		0420	53	37.	64.3	3164.8
1		0425	54	43.	78.5	3165.5
1		0430	55	51.	95.0	3166.4
1		0435	56	58.	114.1	3167.3
1		0440	57	62.	135.9	3168.2
1		0445	58	67.	160.2	3169.1
1		0450	59	72.	186.8	3170.2
1		0455	60	77.	215.3	3171.4
1		0500	61	82.	245.3	3172.5
1		0505	62	86.	276.0	3173.6
1		0510	63	90.	306.9	3174.7
1		0515	64	94.	337.3	3175.8
1		0520	65	98.	366.8	3176.8
1		0525	66	101.	395.2	3177.7
1		0530	67	104.	422.2	3178.6
1		0535	68	106.	447.7	3179.4
1		0540	69	109.	471.8	3180.2
1		0545	70	111.	494.5	3180.9
1		0550	71	113.	516.0	3181.6
1		0555	72	115.	536.3	3182.2
1		0600	73	116.	555.6	3182.8
1		0605	74	118.	573.8	3183.3
1		0610	75	119.	591.0	3183.8
1		0615	76	120.	607.0	3184.2
1		0620	77	121.	621.9	3184.6
1		0625	78	122.	635.6	3185.0
1		0630	79	123.	648.1	3185.4
1		0635	80	124.	659.3	3185.7
1		0640	81	125.	669.3	3186.0
1		0645	82	126.	678.0	3186.2
1		0650	83	126.	685.7	3186.5
1		0655	84	127.	692.3	3186.6
1		0700	85	127.	698.0	3186.8
1		0705	86	128.	702.9	3186.9
1		0710	87	128.	707.1	3187.1
1		0715	88	128.	710.5	3187.1
1		0720	89	129.	713.4	3187.2
1		0725	90	129.	715.8	3187.3
1		0730	91	129.	717.7	3187.3
1		0735	92	129.	719.2	3187.4
1		0740	93	129.	720.3	3187.4
1		0745	94	129.	721.2	3187.4
1		0750	95	129.	721.8	3187.4
1		0755	96	129.	722.1	3187.4
1		0800	97	129.	722.2	3187.4
1		0805	98	129.	722.2	3187.4
1		0810	99	129.	722.0	3187.4
1		0815	100	129.	721.7	3187.4
1		0820	101	129.	721.3	3187.4
1		0825	102	129.	720.8	3187.4
1		0830	103	129.	720.2	3187.4
1		0835	104	129.	719.6	3187.4
1		0840	105	129.	718.9	3187.4
1		0845	106	129.	718.2	3187.3
1		0850	107	129.	717.5	3187.3
1		0855	108	129.	716.7	3187.3
1		0900	109	129.	716.0	3187.3
1		0905	110	129.	715.1	3187.3
1		0910	111	129.	714.3	3187.2
1		0915	112	129.	713.5	3187.2
1		0920	113	128.	712.6	3187.2
1		0925	114	128.	711.8	3187.2
1		0930	115	128.	710.9	3187.1
1		0935	116	128.	710.1	3187.1
1		0940	117	128.	709.2	3187.1
1		0945	118	128.	708.3	3187.1
1		0950	119	128.	707.5	3187.1
1		0955	120	128.	706.6	3187.0
1		1000	121	128.	705.7	3187.0
1		1005	122	128.	704.8	3187.0
1		1010	123	128.	703.9	3187.0
1		1015	124	128.	703.1	3186.9
1		1020	125	128.	702.2	3186.9
1		1025	126	128.	701.3	3186.9
1		1030	127	128.	700.4	3186.9
1		1035	128	128.	699.6	3186.8
1		1040	129	127.	698.7	3186.8
1		1045	130	127.	697.8	3186.8
1		1050	131	127.	696.9	3186.8
1		1055	132	127.	696.0	3186.7
1		1100	133	127.	695.2	3186.7
1		1105	134	127.	694.3	3186.7
1		1110	135	127.	693.4	3186.7
1		1115	136	127.	692.5	3186.6
1		1120	137	127.	691.7	3186.6
1		1125	138	127.	690.8	3186.6
1		1130	139	127.	689.9	3186.6
1		1135	140	127.	689.1	3186.5
1		1140	141	127.	688.2	3186.5
1		1145	142	127.	687.3	3186.5
1		1150	143	127.	686.4	3186.5
1		1155	144	126.	685.6	3186.4
1		1200	145	126.	684.7	3186.4
1		1205	146	126.	683.8	3186.4
1		1210	147	126.	683.0	3186.4
1		1215	148	126.	682.1	3186.3
1		1220	149	126.	681.2	3186.3
1		1225	150	126.	680.3	3186.3
1		1230	151	126.	679.5	3186.3
1		1235	152	126.	678.6	3186.3
1		1240	153	126.	677.7	3186.2
1		1245	154	126.	676.9	3186.2
1		1250	155	126.	676.0	3186.2
1		1255	156	126.	675.1	3186.2
1		1300	157	126.	674.3	3186.1
1		1305	158	125.	673.4	3186.1
1		1310	159	125.	672.6	3186.1
1		1315	160	125.	671.7	3186.1
1		1320	161	125.	670.8	3186.0
1		1325	162	125.	670.0	3186.0
1		1330	163	125.	669.1	3186.0
1		1335	164	125.	668.2	3186.0
1		1340	165	125.	667.4	3185.9
1		1345	166	125.	666.5	3185.9
1		1350	167	125.	665.7	3185.9
1		1355	168	125.	664.8	3185.9
1		1400	169	125.	663.9	3185.8
1		1405	170	125.	663.1	3185.8
1		1410	171	125.	662.2	3185.8
1		1415	172	125.	661.4	3185.8
1		1420	173	124.	660.5	3185.7
1		1425	174	124.	659.6	3185.7
1		1430	175	124.	658.8	3185.7
1		1435	176	124.	657.9	3185.7
1		1440	177	124.	657.1	3185.6
1		1445	178	124.	656.2	3185.6
1		1450	179	124.	655.4	3185.6
1		1455	180	124.	654.5	3185.6
1		1500	181	124.	653.7	3185.5
1		1505	182	124.	652.8	3185.5
1		1510	183	124.	652.0	3185.5
1		1515	184	124.	651.1	3185.5
1		1520	185	124.	650.3	3185.4
1		1525	186	124.	649.4	3185.4
1		1530	187	124.	648.6	3185.4
1		1535	188	123.	647.7	3185.4
1		1540	189	123.	646.9	3185.3
1		1545	190	123.	646.0	3185.3
1		1550	191	123.	645.2	3185.3
1		1555	192	123.	644.3	3185.3
1		1600	193	123.	643.5	3185.3
1		1605	194	123.	642.6	3185.2
1		1610	195	123.	641.8	3185.2
1		1615	196	123.	640.9	3185.2
1		1620	197	123.	640.1	3185.2
1		1625	198	123.	639.2	3185.1
1		1630	199	123.	638.4	3185.1
1		1635	200	123.	637.5	3185.1
1		1640	201	123.	636.7	3185.1
1		1645	202	122.	635.8	3185.0
1		1650	203	122.	635.0	3185.0
1		1655	204	122.	634.2	3185.0
1		1700	205	122.	633.3	3185.0
1		1705	206	122.	632.5	3184.9
1		1710	207	122.	631.6	3184.9
1		1715	208	122.	630.8	3184.9
1		1720	209	122.	630.0	3184.9
1		1725	210	122.	629.1	3184.8
1		1730	211	122.	628.3	3184.8
1		1735	212	122.	627.4	3184.8
1		1740	213	122.	626.6	3184.8
1		1745	214	122.	625.8	3184.7
1		1750	215	122.	624.9	3184.7
1		1755	216	122.	624.1	3184.7
1		1800	217	121.	623.2	3184.7
1		1805	218	121.	622.4	3184.7
1		1810	219	121.	621.6	3184.6
1		1815	220	121.	620.7	3184.6
1		1820	221	121.	619.9	3184.6
1		1825	222	121.	619.1	3184.6
1		1830	223	121.	618.2	3184.5
1		1835	224	121.	617.4	3184.5
1		1840	225	121.	616.6	3184.5
1		1845	226	121.	615.7	3184.5
1		1850	227	121.	614.9	3184.4
1		1855	228	121.	614.1	3184.4
1		1900	229	121.	613.2	3184.4
1		1905	230	121.	612.4	3184.4
1		1910	231	121.	611.6	3184.3
1		1915	232	121.	610.7	3184.3
1		1920	233	120.	609.9	3184.3
1		1925	234	120.	609.1	3184.3
1		1930	235	120.	608.3	3184.3
1		1935	236	120.	607.4	3184.2
1		1940	237	120.	606.6	3184.2
1		1945	238	120.	605.8	3184.2
1		1950	239	120.	604.9	3184.2
1		1955	240	120.	604.1	3184.1
1		2000	241	120.	603.3	3184.1
1		2005	242	120.	602.5	3184.1
1		2010	243	120.	601.6	3184.1
1		2015	244	120.	600.8	3184.0
1		2020	245	120.	600.0	3184.0
1		2025	246	120.	599.2	3184.0
1		2030	247	120.	598.3	3184.0
1		2035	248	119.	597.5	3183.9
1		2040	249	119.	596.7	3183.9
1		2045	250	119.	595.9	3183.9
1		2050	251	119.	595.1	3183.9
1		2055	252	119.	594.2	3183.9
1		2100	253	119.	593.4	3183.8
1		2105	254	119.	592.6	3183.8
1		2110	255	119.	591.8	3183.8
1		2115	256	119.	591.0	3183.8
1		2120	257	119.	590.1	3183.7
1		2125	258	119.	589.3	3183.7
1		2130	259	119.	588.5	3183.7
1		2135	260	119.	587.7	3183.7
1		2140	261	119.	586.9	3183.6
1		2145	262	119.	586.0	3183.6
1		2150	263	118.	585.2	3183.6
1		2155	264	118.	584.4	3183.6
1		2200	265	118.	583.6	3183.6
1		2205	266	118.	582.8	3183.5
1		2210	267	118.	582.0	3183.5
1		2215	268	118.	581.2	3183.5
1		2220	269	118.	580.3	3183.5
1		2225	270	118.	579.5	3183.4
1		2230	271	118.	578.7	3183.4
1		2235	272	118.	577.9	3183.4
1		2240	273	118.	577.1	3183.4
1		2245	274	118.	576.3	3183.3
1		2250	275	118.	575.5	3183.3
1		2255	276	118.	574.7	3183.3
1		2300	277	118.	573.9	3183.3
1		2305	278	118.	573.0	3183.3
1		2310	279	117.	572.2	3183.2
1		2315	280	117.	571.4	3183.2
1		2320	281	117.	570.6	3183.2
1		2325	282	117.	569.8	3183.2
1		2330	283	117.	569.0	3183.1
1		2335	284	117.	568.2	3183.1
1		2340	285	117.	567.4	3183.1
1		2345	286	117.	566.6	3183.1
1		2350	287	117.	565.8	3183.0
1		2355	288	117.	565.0	3183.0
1		0000	289	117.	564.2	3183.0
1		0005	290	117.	563.4	3183.0
1		0010	291	117.	562.6	3183.0
1		0015	292	117.	561.8	3182.9
1		0020	293	117.	561.0	3182.9
1		0025	294	116.	560.2	3182.9
1		0030	295	116.	559.3	3182.9
1		0035	296	116.	558.5	3182.8
1		0040	297	116.	557.7	3182.8
1		0045	298	116.	556.9	3182.8
1		0050	299	116.	556.1	3182.8
1		0055	300	116.	555.3	3182.7

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)				
		(CFS)			
129.	8.00	128.	104.	100.	100.
		(INCHES)	.022	.070	.070	.070
		(AC-FT)	63.	205.	205.	205.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
(AC-FT)	(HR)				
722.	8.00	703.	529.	510.	510.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
(FEET)	(HR)				
3187.44	8.00	3186.93	3181.10	3180.36	3180.36

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .90

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	3161.0
1		0005	2	0.	.0	3161.0
1		0010	3	0.	.0	3161.0
1		0015	4	0.	.0	3161.0
1		0020	5	0.	.0	3161.0
1		0025	6	0.	.0	3161.0
1		0030	7	0.	.0	3161.0
1		0035	8	0.	.0	3161.0
1		0040	9	0.	.0	3161.0
1		0045	10	0.	.0	3161.0
1		0050	11	0.	.0	3161.0
1		0055	12	0.	.0	3161.0
1		0100	13	0.	.0	3161.0
1		0105	14	0.	.0	3161.0
1		0110	15	0.	.0	3161.0
1		0115	16	0.	.0	3161.0
1		0120	17	0.	.0	3161.0
1		0125	18	0.	.0	3161.0
1		0130	19	0.	.0	3161.0
1		0135	20	0.	.0	3161.0
1		0140	21	0.	.0	3161.0
1		0145	22	0.	.0	3161.0
1		0150	23	0.	.0	3161.0
1		0155	24	0.	.0	3161.0
1		0200	25	0.	.0	3161.0
1		0205	26	0.	.0	3161.0
1		0210	27	0.	.0	3161.0
1		0215	28	0.	.0	3161.0
1		0220	29	0.	.0	3161.0
1		0225	30	0.	.0	3161.0
1		0230	31	0.	.0	3161.0
1		0235	32	0.	.0	3161.0
1		0240	33	0.	.0	3161.0
1		0245	34	0.	.1	3161.0
1		0250	35	0.	.1	3161.0
1		0255	36	0.	.1	3161.0
1		0300	37	0.	.2	3161.0
1		0305	38	0.	.2	3161.0
1		0310	39	0.	.3	3161.0
1		0315	40	0.	.4	3161.0
1		0320	41	1.	.7	3161.1
1		0325	42	1.	1.2	3161.1
1		0330	43	3.	2.4	3161.3
1		0335	44	5.	4.3	3161.5
1		0340	45	8.	7.2	3161.8
1		0345	46	11.	10.8	3162.1
1		0350	47	13.	15.2	3162.3
1		0355	48	15.	20.2	3162.6
1		0400	49	18.	26.1	3162.9
1		0405	50	22.	33.1	3163.2
1		0410	51	26.	41.7	3163.7
1		0415	52	31.	51.9	3164.2
1		0420	53	37.	63.9	3164.8
1		0425	54	43.	78.1	3165.5
1		0430	55	51.	94.5	3166.4
1		0435	56	58.	113.5	3167.3
1		0440	57	62.	135.2	3168.2
1		0445	58	67.	159.4	3169.1
1		0450	59	72.	185.9	3170.2
1		0455	60	77.	214.3	3171.4
1		0500	61	82.	244.2	3172.5
1		0505	62	86.	274.8	3173.6
1		0510	63	90.	305.6	3174.7
1		0515	64	94.	336.0	3175.8
1		0520	65	98.	365.4	3176.8
1		0525	66	101.	393.8	3177.7
1		0530	67	104.	420.8	3178.6
1		0535	68	106.	446.2	3179.4
1		0540	69	109.	470.3	3180.2
1		0545	70	111.	492.9	3180.9
1		0550	71	113.	514.4	3181.6
1		0555	72	115.	534.6	3182.2
1		0600	73	116.	553.8	3182.8
1		0605	74	118.	572.0	3183.3
1		0610	75	119.	589.2	3183.8
1		0615	76	120.	605.2	3184.2
1		0620	77	121.	620.1	3184.6
1		0625	78	122.	633.8	3185.0
1		0630	79	123.	646.3	3185.4
1		0635	80	124.	657.5	3185.7
1		0640	81	125.	667.5	3186.0
1		0645	82	126.	676.2	3186.2
1		0650	83	126.	683.9	3186.5
1		0655	84	127.	690.5	3186.6
1		0700	85	127.	696.2	3186.8
1		0705	86	128.	701.1	3186.9
1		0710	87	128.	705.3	3187.1
1		0715	88	128.	708.7	3187.1
1		0720	89	128.	711.6	3187.2
1		0725	90	128.	714.0	3187.3
1		0730	91	128.	715.9	3187.3
1		0735	92	128.	717.4	3187.4
1		0740	93	128.	718.5	3187.4
1		0745	94	128.	719.4	3187.4
1		0750	95	128.	720.0	3187.4
1		0755	96	128.	720.3	3187.4
1		0800	97	128.	720.4	3187.4
1		0805	98	128.	720.4	3187.4
1		0810	99	128.	720.2	3187.4
1		0815	100	128.	719.9	3187.4
1		0820	101	128.	719.5	3187.4
1		0825	102	128.	719.0	3187.4
1		0830	103	128.	718.4	3187.4
1		0835	104	128.	717.8	3187.4
1		0840	105	128.	717.1	3187.4
1		0845	106	128.	716.3	3187.3
1		0850	107	128.	715.5	3187.3
1		0855	108	128.	714.7	3187.3
1		0900	109	128.	713.8	3187.3
1		0905	110	128.	712.9	3187.2
1		0910	111	128.	712.0	3187.2
1		0915	112	128.	711.0	3187.2
1		0920	113	128.	710.0	3187.1
1		0925	114	128.	709.0	3187.1
1		0930	115	128.	708.0	3187.1
1		0935	116	128.	706.9	3187.0
1		0940	117	128.	705.9	3187.0
1		0945	118	128.	704.8	3187.0
1		0950	119	127.	703.8	3186.9
1		0955	120	127.	702.8	3186.9
1		1000	121	127.	701.8	3186.9
1		1005	122	127.	700.8	3186.9
1		1010	123	127.	699.8	3186.8
1		1015	124	127.	698.8	3186.8
1		1020	125	127.	697.8	3186.8
1		1025	126	127.	696.8	3186.8
1		1030	127	127.	695.8	3186.7
1		1035	128	127.	694.8	3186.7
1		1040	129	127.	693.8	3186.7
1		1045	130	127.	692.8	3186.6
1		1050	131	127.	691.8	3186.6
1		1055	132	127.	690.8	3186.5
1		1100	133	126.	689.8	3186.5
1		1105	134	126.	688.8	3186.4
1		1110	135	126.	687.8	3186.4
1		1115	136	126.	686.8	3186.4
1		1120	137	126.	685.8	3186.4
1		1125	138	126.	684.8	3186.3
1		1130	139	126.	683.8	3186.3
1		1135	140	126.	682.8	3186.3
1		1140	141	126.	681.8	3186.3
1		1145	142	126.	680.8	3186.2
1		1150	143	126.	679.8	3186.2
1		1155	144	126.	678.8	3186.2
1		1200	145	126.	677.8	3186.2
1		1205	146	126.	676.8	3186.1
1		1210	147	126.	675.8	3186.1
1		1215	148	126.	674.8	3186.1
1		1220	149	126.	673.8	3186.1
1		1225	150	126.	672.8	3186.0
1		1230	151	126.	671.8	3186.0
1		1235	152	126.	670.8	3186.0
1		1240	153	126.	669.8	3186.0
1		1245	154	126.	668.8	3185.9
1		1250	155	126.	667.8	3185.9
1		1255	156	126.	666.8	3185.9
1		1300	157	126.	665.8	3185.9
1		1305	158	125.	664.8	3185.8
1		1310	159	125.	663.8	3185.8
1		1315	160	125.	662.8	3185.8
1		1320	161	125.	661.8	3185.8
1		1325	162	125.	660.8	3185.7
1		1330	163	125.	659.8	3185.7
1		1335	164	125.	658.8	3185.7
1		1340	165	125.	657.8	3185.7
1		1345	166	125.	656.8	3185.6
1		1350	167	125.	655.8	3185.6
1		1355	168	125.	654.8	3185.6
1		1400	169	125.	653.8	3185.5
1		1405	170	125.	652.8	3185.5

1		0350	47	13.	15.0	3162.3	1		1210	147	126.	673.9	3186.1	1		2030	247	119.	589.8	3183.7
1		0355	48	15.	20.0	3162.6	1		1215	148	125.	673.0	3186.1	1		2035	248	119.	588.9	3183.7
1		0400	49	18.	25.8	3162.9	1		1220	149	125.	672.1	3186.1	1		2040	249	119.	588.1	3183.7
1		0405	50	21.	32.8	3163.2	1		1225	150	125.	671.3	3186.0	1		2045	250	119.	587.3	3183.7
1		0410	51	25.	41.3	3163.6	1		1230	151	125.	670.4	3186.0	1		2050	251	119.	586.5	3183.6
1		0415	52	30.	51.4	3164.2	1		1235	152	125.	669.6	3186.0	1		2055	252	119.	585.7	3183.6
1		0420	53	36.	63.3	3164.8	1		1240	153	125.	668.7	3186.0	1		2100	253	118.	584.8	3183.6
1		0425	54	43.	77.3	3165.5	1		1245	154	125.	667.8	3185.9	1		2105	254	118.	584.0	3183.6
1		0430	55	51.	93.5	3166.3	1		1250	155	125.	667.0	3185.9	1		2110	255	118.	583.2	3183.5
1		0435	56	58.	112.3	3167.2	1		1255	156	125.	666.1	3185.9	1		2115	256	118.	582.4	3183.5
1		0440	57	62.	133.7	3168.1	1		1300	157	125.	665.3	3185.9	1		2120	257	118.	581.6	3183.5
1		0445	58	66.	157.7	3169.0	1		1305	158	125.	664.4	3185.8	1		2125	258	118.	580.8	3183.5
1		0450	59	71.	183.9	3170.1	1		1310	159	125.	663.5	3185.8	1		2130	259	118.	580.0	3183.4
1		0455	60	76.	212.1	3171.2	1		1315	160	125.	662.7	3185.8	1		2135	260	118.	579.2	3183.4
1		0500	61	81.	241.6	3172.4	1		1320	161	125.	661.8	3185.8	1		2140	261	118.	578.3	3183.4
1		0505	62	86.	271.9	3173.5	1		1325	162	124.	661.0	3185.7	1		2145	262	118.	577.5	3183.4
1		0510	63	90.	302.4	3174.5	1		1330	163	124.	660.1	3185.7	1		2150	263	118.	576.7	3183.4
1		0515	64	94.	332.4	3175.6	1		1335	164	124.	659.2	3185.7	1		2155	264	118.	575.9	3183.3
1		0520	65	98.	361.6	3176.6	1		1340	165	124.	658.4	3185.7	1		2200	265	118.	575.1	3183.3
1		0525	66	101.	389.6	3177.6	1		1345	166	124.	657.5	3185.7	1		2205	266	118.	574.3	3183.3
1		0530	67	103.	416.3	3178.4	1		1350	167	124.	656.7	3185.6	1		2210	267	118.	573.5	3183.3
1		0535	68	106.	441.5	3179.2	1		1355	168	124.	655.8	3185.6	1		2215	268	117.	572.7	3183.2
1		0540	69	108.	465.3	3180.0	1		1400	169	124.	655.0	3185.6	1		2220	269	117.	571.9	3183.2
1		0545	70	110.	487.7	3180.7	1		1405	170	124.	654.1	3185.6	1		2225	270	117.	571.0	3183.2
1		0550	71	112.	509.0	3181.4	1		1410	171	124.	653.3	3185.5	1		2230	271	117.	570.2	3183.2
1		0555	72	114.	529.1	3182.0	1		1415	172	124.	652.4	3185.5	1		2235	272	117.	569.4	3183.1
1		0600	73	116.	548.2	3182.5	1		1420	173	124.	651.6	3185.5	1		2240	273	117.	568.6	3183.1
1		0605	74	117.	566.2	3183.1	1		1425	174	124.	650.7	3185.5	1		2245	274	117.	567.8	3183.1
1		0610	75	118.	583.1	3183.5	1		1430	175	124.	649.9	3185.4	1		2250	275	117.	567.0	3183.1
1		0615	76	120.	599.0	3184.0	1		1435	176	124.	649.0	3185.4	1		2255	276	117.	566.2	3183.1
1		0620	77	121.	613.8	3184.4	1		1440	177	123.	648.2	3185.4	1		2300	277	117.	565.4	3183.0
1		0625	78	122.	627.3	3184.8	1		1445	178	123.	647.3	3185.4	1		2305	278	117.	564.6	3183.0
1		0630	79	123.	639.7	3185.1	1		1450	179	123.	646.5	3185.3	1		2310	279	117.	563.8	3183.0
1		0635	80	124.	650.7	3185.5	1		1455	180	123.	645.6	3185.3	1		2315	280	117.	563.0	3183.0
1		0640	81	124.	660.6	3185.7	1		1500	181	123.	644.8	3185.3	1		2320	281	117.	562.2	3182.9
1		0645	82	125.	669.3	3186.0	1		1505	182	123.	643.9	3185.3	1		2325	282	117.	561.4	3182.9
1		0650	83	126.	676.9	3186.2	1		1510	183	123.	643.1	3185.2	1		2330	283	117.	560.6	3182.9
1		0655	84	126.	683.4	3186.4	1		1515	184	123.	642.2	3185.2	1		2335	284	116.	559.8	3182.9
1		0700	85	127.	689.1	3186.5	1		1520	185	123.	641.4	3185.2	1		2340	285	116.	559.0	3182.9
1		0705	86	127.	693.9	3186.7	1		1525	186	123.	640.5	3185.2	1		2345	286	116.	558.2	3182.8
1		0710	87	127.	698.0	3186.8	1		1530	187	123.	639.7	3185.1	1		2350	287	116.	557.4	3182.8
1		0715	88	128.	701.4	3186.9	1		1535	188	123.	638.8	3185.1	1		2355	288	116.	556.6	3182.8
1		0720	89	128.	704.3	3187.0	1		1540	189	123.	638.0	3185.1	2		0000	289	116.	555.8	3182.8
1		0725	90	128.	706.6	3187.0	1		1545	190	123.	637.1	3185.1	2		0005	290	116.	555.0	3182.7
1		0730	91	128.	708.5	3187.1	1		1550	191	123.	636.3	3185.0	2		0010	291	116.	554.2	3182.7
1		0735	92	128.	710.0	3187.1	1		1555	192	122.	635.4	3185.0	2		0015	292	116.	553.4	3182.7
1		0740	93	128.	711.1	3187.2	1		1600	193	122.	634.6	3185.0	2		0020	293	116.	552.6	3182.7
1		0745	94	128.	712.0	3187.2	1		1605	194	122.	633.8	3185.0	2		0025	294	116.	551.8	3182.6
1		0750	95	128.	712.5	3187.2	1		1610	195	122.	632.9	3185.0	2		0030	295	116.	551.0	3182.6
1		0755	96	128.	712.8	3187.2	1		1615	196	122.	632.1	3184.9	2		0035	296	116.	550.2	3182.6
1		0800	97	128.	713.0	3187.2	1		1620	197	122.	631.2	3184.9	2		0040	297	116.	549.4	3182.6
1		0805	98	128.	712.9	3187.2	1		1625	198	122.	630.4	3184.9	2		0045	298	116.	548.6	3182.6
1		0810	99	128.	712.7	3187.2	1		1630	199	122.	629.6	3184.9	2		0050	299	115.	547.8	3182.5
1		0815	100	128.	712.4	3187.2	1		1635	200	122.	628.7	3184.8	2		0055	300	115.	547.0	3182.5

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 128.	8.00		127.	103.	99.	99.
		(INCHES)	.022	.070	.070	.070
		(AC-FT)	63.	204.	204.	204.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
713.	8.00	694.	522.	503.	503.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3187.20	8.00	3186.68	3180.89	3180.16	3180.16

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .89

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	3161.0	1		0820	101	127.	697.1	3186.8	1		1640	201	121.	613.7	3184.4
1		0005	2	0.	.0	3161.0	1		0825	102	127.	696.6	3186.8	1		1645	202	121.	612.9	3184.4
1		0010	3	0.	.0	3161.0	1		0830	103	127.	696.0	3186.7	1		1650	203	121.	612.0	3184.4
1		0015	4	0.	.0	3161.0	1		0835	104	127.	695.4	3186.7	1		1655	204	121.	611.2	3184.3
1		0020	5	0.	.0	3161.0	1		0840	105	127.	694.8	3186.7	1		1700	205	120.	610.4	3184.3
1		0025	6	0.	.0	3161.0	1		0845	106	127.	694.1	3186.7	1		1705	206	120.	609.5	3184.3
1		0030	7	0.	.0	3161.0	1		0850	107	127.	693.3	3186.7	1		1710	207	120.	608.7	3184.3
1		0035	8	0.	.0	3161.0	1		0855	108	127.	692.6	3186.6	1		1715	208	120.	607.9	3184.2
1		0040	9	0.	.0	3161.0	1		0900	109	127.	691.8	3186.6	1		1720	209	120.	607.1	3184.2
1		0045	10	0.	.0	3161.0	1		0905	110	127.	691.0	3186.6	1		1725	210	120.	606.2	3184.2
1		0050	11	0.	.0	3161.0	1		0910	111	127.	690.2	3186.6	1		1730	211	120.	605.4	3184.2
1		0055	12	0.	.0	3161.0	1		0915	112	127.	689.4	3186.6	1		1735	212	120.	604.6	3184.1
1		0100	13	0.	.0	3161.0	1		0920	113	127.	688.5	3186.5	1		1740	213	120.	603.8	3184.1
1		0105	14	0.	.0	3161.0	1		0925	114	127.	687.7	3186.5	1		1745	214	120.	602.9	3184.1
1		0110	15	0.	.0	3161.0	1		0930	115	127.	686.8	3186.5	1		1750	215	120.	602.1	3184.1
1		0115	16	0.	.0	3161.0	1		0935	116	126.	686.0	3186.5	1		1755	216	120.	601.3	3184.1
1		0120	17	0.	.0	3161.0	1		0940	117	126.	685.1	3186.4	1		1800	217	120.	600.5	3184.0
1		0125	18	0.	.0	3161.0	1		0945	118	126.	684.3	3186.4	1		1805	218	120.	599.6	3184.0
1		0130	19	0.	.0	3161.0	1		0950	119	126.	683.4	3186.4	1		1810	219	120.	598.8	3184.0
1		0135	20	0.	.0	3161.0	1		0955	120	126.	682.5	3186.4	1		1815	220	119.	598.0	3184.0
1		0140	21	0.	.0	3161.0	1		1000	121	126.	681.7	3186.3	1		1820	221	119.	597.2	3183.9
1		0145	22	0.	.0	3161.0	1		1005	122	126.	680.8	3186.3	1		1825	222	119.	596.3	3183.9
1		0150	23	0.	.0	3161.0	1		1010	123	126.	680.0	3186.3	1		1830	223	119.	595.5	3183.9
1		0155	24	0.	.0	3161.0	1		1015	124	126.	679.1	3186.3	1		1835	224	119.	594.7	3183.9
1		0200	25	0.	.0	3161.0	1		1020	125	126.	678.2	3186.2	1		1840	225	119.	593.9	3183.8
1		0205	26	0.	.0	3161.0	1		1025	126	126.	677.4	3186.2	1		1845	226	119.	593.1	3183.8
1		0210	27	0.	.0	3161.0	1		1030	127	126.	676.5	3186.2	1		1850	227	119.	592.2	3183.8
1		0215	28	0.	.0	3161.0	1		1035	128	126.	675.6	3186.2	1		1855	228	119.	591.4	3183.8
1		0220	29	0.	.0	3161.0	1		1040	129	126.	674.8	3186.1	1		1900	229	119.	590.6	3183.7
1		0225	30	0.	.0	3161.0	1		1045	130	126.	673.9	3186.1	1		1905	230	119.	589.8	3183.7
1		0230	31	0.	.0	3161.0	1		1050	131	125.	673.0	3186.1	1		1910	231	119.	589.0	3183.7
1		0235	32	0.	.0	3161.0	1		1055	132	125.	672.2	3186.1	1		1915	232	119.	588.1	3183.7
1		0240	33	0.	.0	3161.0	1		1100	133	125.	671.3	3186.0	1		1920	233	119.	587.3	3183.7
1		0245	34	0.	.1	3161.0	1		1105	134	125.	670.4	3186.0	1		1925	234	119.	586.5	3183.6
1		0250	35	0.	.1	3161.0	1		1110	135	125.	669.6	3186.0	1		1930	235	119.	585.7	3183.6
1		0255	36	0.	.1	3161.0	1		1115	136	125.	668.7	3186.0	1		1935	236	118.	584.9	3183.6
1		0300	37	0.	.2	3161.0	1		1120	137	125.	667.9	3185.9	1		1940	237	118.	584.1	3183.6
1		0305	38	0.	.2	3161.0	1		1125	138	125.	667.0	3185.9	1		1945	238	118.	583.2	3183.5
1		0310	39	0.	.2	3161.0	1		1130	139	125.	666.1	3185.9	1		1950	239	118.	582.4	3183.5
1		0315	40	0.	.4	3161.0	1		1135	140	125.	665.3	3185.9	1		1955	240	118.	581.6	3183.5
1		0320	41	1.	.6	3161.1	1		1140	141	125.	664.4	3185.8	1		2000	241	118.	580.8	3183.5
1		0325	42	1.	1.2	3161.1	1		1145	142	125.	663.6	3185.8	1		2005	242	118.	580.0	3183.4
1		0330	43	3.	2.3	3161.3	1		1150	143	125.	662.7	3185.8	1		2010	243	118.	579.2	3183.4
1		0335	44	5.	4.2	3161.5	1		1155	144	125.	661.8	3185.8	1		2015	244	118.	578.4	3183.4
1		0340	45	8.	7.0	3161.8	1		1200	145	124.	661.0	3185.7	1		2020	245	118.	577.5	3183.4
1		0345	46	11.	10.5	3162.1	1		1205	146	124.	660.1	3185.7	1		2025	246	118.	576.7	3183.4
1		0350	47	13.	14.6	3162.3	1		1210	147	124.	659.3	3185.7	1		2030	247	118.	575.9	3183.3
1		0355	48	15.	19.3	3162.5	1		1215	148	124.	658.4	3185.7	1		2035	248	118.	575.1	3183.3
1		0400	49	18.	25.0	3162.8	1		1220	149	124.	657.6	3185.7	1		2040	249	118.	574.3	3183.3
1		0405	50	21.	31.8	3163.2	1		1225	150	124.	656.7	3185.6	1		2045	250	118.	573.5	3183.3
1		0410	51	25.	40.1	3163.6	1		1230	151	124.	655.8	3185.6	1		2050	251	117.	572.7	3183.2
1		0415	52	30.	49.9	3164.1	1		1235	152	124.	655.0	3185.6	1		2055	252	117.	571.9	3183.2
1		0420	53	35.	61.5	3164.7	1		1240	153	124.	654.1	3185.6	1		2100	253	117.	571.1	3183.2
1		0425	54	42.	75.1	3165.4	1		1245	154	124.	653.3	3185.5	1		2105	254	117.	570.3	3183.2
1		0430	55	49.	91.0	3166.2	1		1250	155	124.	652.4	3185.5	1		2110	255	117.	569.5	3183.1
1		0435	56	57.	109.3	3167.1	1		1255	156	124.	651.6	3185.5	1		2115	256	117.	568.6	3183.1
1		0440	57	61.	130.2	3167.9	1		1300	157	124.	650.7	3185.5	1		2120	257	117.	567.8	3183.1
1		0445	58	66.	153.6	3168.9	1		1305	158	124.	649.9	3185.4	1		2125	258	117.	567.0	3183.1
1		0450	59	70.	179.2	3169.9	1		1310	159	124.	649.0	3185.4	1		2130	259	117.	566.2	3183.1
1		0455	60	75.	206.7	3171.0	1		1315	160	123.	648.2	3185.4	1		2135	260	117.	565.4	3183.0
1		0500	61	81.	235.6	3172.2	1		1320	161	123.	647.3	3185.4	1		2140	261	117.	564.6	3183.0
1		0505	62	85.	265.3	3173.2	1		1325	162	123.	646.5	3185.3	1		2145	262	117.	563.8	3183.0
1		0510	63	89.	295.1	3174.3	1		1330	163	123.	645.6	3185.3	1		2150	263	117.	563.0	3183.0
1		0515	64	93.	324.5	3175.3	1		1335	164	123.	644.8	3185.3	1		2155	264	117.	562.2	3182.9
1		0520	65	96.	353.1	3176.3	1		1340	165	123.	643.9	3185.3	1		2200	265	117.	561.4	3182.9
1		0525	66	100.	380.5	3177.3	1		1345	166	123.	643.1	3185.2	1		2205	266	117.	560.6	3182.9
1		0530	67	102.	406.7	3178.1	1		1350	167	123.	642.2	3185.2	1		2210	267	116.	559.8	3182.9
1		0535	68	105.	431.4	3178.9	1		1355	168	123.	641.4	3185.2	1		2215	268	116.	559.0	3182.9
1		0540	69	107.	454.7	3179.6	1		1400	169	123.	640.5	3185.2	1		2220	269	116.	558.2	3182.8
1		0545	70	109.	476.8	3180.3	1		1405	170	123.	639.7	3185.1	1		2225	270	116.	557.4	3182.8
1		0550	71	111.	497.6	3181.0	1		1410	171	123.	638.8	3185.1	1		2230	271	116.	556.6	3182.8
1		0555	72	113.	517.4	3181.6	1		1415	172	123.	638.0	3185.1	1		2235	272	116.	555.8	3182.8
1		0600	73	115.	536.1	3182.2	1		1420	173	123.	637.2	3185.1	1		2240	273	116.	555.0	3182.7
1		0605	74	116.	553.8	3182.7	1		1425	174	123.	636.3	3185.0	1		2245	274	116.	554.2	3182.7
1		0610	75	117.	570.5	3183.2	1		1430	175	122.	635.5	3185.0	1		2250	275	116.	553.4	3182.7
1		0615	76	119.	586.1	3183.6	1		1435	176	122.	634.6	3185.0	1		2255	276	116.	552.6	3182.7
1		0620	77	120.	600.6	3184.0	1		1440	177	122.	633.8	3185.0	1		2300	277	116.	551.8	3182.6
1		0625	78	121.	613.9	3184.4	1		1445	178	122.	632.9	3185.0	1		2305	278	116.	551.0	3182.6
1		0630	79	122.	626.0	3184.8	1		1450	179	122.	632.1	3184.9	1		2310	279	116.	550.2	3182.6
1		0635	80	123.	636.9	3185.1	1		1455	180	122.	631.3	3184.9	1		2315	280	116.	549.4	3182.6
1		0640	81	123.	646.6	3185.3	1		1500	181	122.	630.4	3184.9	1		2320	281	116.	548.6	3182.6
1		0645	82	124.	655.1	3185.6	1		1505	182	122.	629.6	3184.9	1		2325	282	115.	547.8	3182.5
1		0650	83	125.	662.6	3185.8	1		1510	183	122.	628.7	3184.8	1		2330	283	115.	547.0	3182.5
1		0655	84	125.	669.1	3186.0	1		1515	184	122.	627.9	3184.8	1		2335	284	115.	546.2	3182.5
1		0700	85	126.	674.6	3186.1	1		1520	185	122.	627.1	3184.8	1		2340	285	115.	545.4	3182.5
1		0705	86	126.	679.3	3186.3	1		1525	186	122.	626.2	3184.8	1		2345	286	115.	544.6	3182.4
1		0710	87	126.	683.4	3186.4	1		1530	187	122.	625.4	3184.7	1		2350	287	115.	543.8	3182.4
1		0715	88	127.	686.7	3186.5	1		1535	188	122.	624.5	3184.7	1		2355	288	115.	543.1	3182.4
1		0720	89	127.	689.5	3186.6	1		1540	189	122.	623.7	3184.7	2		0000	289	115.	542.3	3182.4
1		0725	90	127.	691.8	3186.6	1		1545	190	121.	622.9	3184.7	2		0005	290	115.	541.5	3182.4
1		0730	91	127.	693.7	3186.7	1		1550	191	121.	622.0	3184.6	2		0010	291	115.	540.7	3182.3
1		0735	92	127.	695.1	3186.7	1		1555	192	121.	621.2	3184.6	2		0015	292	115.	539.9	3182.3
1		0740	93	127.	696.2	3186.8	1		1600	193	121.	620.4	3184.6	2		0020	293	115.	539.1	3182.3
1		0745	94	127.	697.1	3186.8	1		1605	194	121.	619.5	3184.6	2		0025	294	115.	538.3	3182.3
1		0750	95	127.	697.6	3186.8	1		1610	195	121.	618.7	3184.5	2		0030	295	115.	537.5	3182.2
1		0755	96	127.	697.9	3186.8	1		1615	196	121.	617.9	3184.5	2		0035	296	115.	536.7	3182.2
1		0800	97	127.	698.0	3186.8	1		1620	197	121.	617.0	3184.5	2		0040	297	115.	535.9	3182.2
1		0805	98	127.	698.0	3186.8	1		1625	198	121.	616.2	3184.5	2		0045	298	114.	535.1	3182.2
1		0810	99	127.	697.8	3186.8	1		1630	199	121.	615.4	3184.5	2		0050	299	114.	534.4	3182.2
1		0815	100	127.	697.5	3186.8	1		1635	200	121.	614.5	3184.4	2		0055	300	114.	533.6	3182.1

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 127.	8.00	126.	102.	98.	98.
		(INCHES) .021	.069	.069	.069
		(AC-FT) 62.	202.	202.	202.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
698.	8.00	679.	510.	492.	492.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3186.80	8.00	3186.27	3180.56	3179.84	3179.84

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .88

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	3161.0	1		0820	101	126.	678.6	3186.3	1		1640	201	119.	596.2	3183.9
1		0005	2	0.	.0	3161.0	1		0825	102	126.	678.2	3186.2	1		1645	202	119.	595.4	3183.9
1		0010	3	0.	.0	3161.0	1		0830	103	126.	677.6	3186.2	1		1650	203	119.	594.6	3183.9
1		0015	4	0.	.0	3161.0	1		0835	104	126.	677.0	3186.2	1		1655	204	119.	593.7	3183.8
1		0020	5	0.	.0	3161.0	1		0840	105	126.	676.3	3186.2	1		1700	205	119.	592.9	3183.8
1		0025	6	0.	.0	3161.0	1		0845	106	126.	675.6	3186.2	1		1705	206	119.	592.1	3183.8
1		0030	7	0.	.0	3161.0	1		0850	107	126.	674.9	3186.1	1		1710	207	119.	591.3	3183.8
1		0035	8	0.	.0	3161.0	1		0855	108	126.	674.2	3186.1	1		1715	208	119.	590.5	3183.7
1		0040	9	0.	.0	3161.0	1		0900	109	125.	673.4	3186.1	1		1720	209	119.	589.7	3183.7
1		0045	10	0.	.0	3161.0	1		0905	110	125.	672.6	3186.1	1		1725	210	119.	588.8	3183.7
1		0050	11	0.	.0	3161.0	1		0910	111	125.	671.8	3186.1	1		1730	211	119.	588.0	3183.7
1		0055	12	0.	.0	3161.0	1		0915	112	125.	671.0	3186.0	1		1735	212	119.	587.2	3183.7
1		0100	13	0.	.0	3161.0	1		0920	113	125.	670.2	3186.0	1		1740	213	119.	586.4	3183.6
1		0105	14	0.	.0	3161.0	1		0925	114	125.	669.4	3186.0	1		1745	214	118.	585.6	3183.6
1		0110	15	0.	.0	3161.0	1		0930	115	125.	668.5	3186.0	1		1750	215	118.	584.7	3183.6
1		0115	16	0.	.0	3161.0	1		0935	116	125.	667.7	3185.9	1		1755	216	118.	583.9	3183.6
1		0120	17	0.	.0	3161.0	1		0940	117	125.	666.8	3185.9	1		1800	217	118.	583.1	3183.5
1		0125	18	0.	.0	3161.0	1		0945	118	125.	666.0	3185.9	1		1805	218	118.	582.3	3183.5
1		0130	19	0.	.0	3161.0	1		0950	119	125.	665.1	3185.9	1		1810	219	118.	581.5	3183.5
1		0135	20	0.	.0	3161.0	1		0955	120	125.	664.3	3185.8	1		1815	220	118.	580.7	3183.5
1		0140	21	0.	.0	3161.0	1		1000	121	125.	663.4	3185.8	1		1820	221	118.	579.9	3183.4
1		0145	22	0.	.0	3161.0	1		1005	122	125.	662.6	3185.8	1		1825	222	118.	579.1	3183.4
1		0150	23	0.	.0	3161.0	1		1010	123	125.	661.7	3185.8	1		1830	223	118.	578.2	3183.4
1		0155	24	0.	.0	3161.0	1		1015	124	124.	660.9	3185.7	1		1835	224	118.	577.4	3183.4
1		0200	25	0.	.0	3161.0	1		1020	125	124.	660.0	3185.7	1		1840	225	118.	576.6	3183.4
1		0205	26	0.	.0	3161.0	1		1025	126	124.	659.1	3185.7	1		1845	226	118.	575.8	3183.3
1		0210	27	0.	.0	3161.0	1		1030	127	124.	658.3	3185.7	1		1850	227	118.	575.0	3183.3
1		0215	28	0.	.0	3161.0	1		1035	128	124.	657.4	3185.6	1		1855	228	118.	574.2	3183.3
1		0220	29	0.	.0	3161.0	1		1040	129	124.	656.6	3185.6	1		1900	229	118.	573.4	3183.3
1		0225	30	0.	.0	3161.0	1		1045	130	124.	655.7	3185.6	1		1905	230	117.	572.6	3183.2
1		0230	31	0.	.0	3161.0	1		1050	131	124.	654.9	3185.6	1		1910	231	117.	571.8	3183.2
1		0235	32	0.	.0	3161.0	1		1055	132	124.	654.0	3185.6	1		1915	232	117.	570.9	3183.2
1		0240	33	0.	.0	3161.0	1		1100	133	124.	653.2	3185.5	1		1920	233	117.	570.1	3183.2
1		0245	34	0.	.1	3161.0	1		1105	134	124.	652.3	3185.5	1		1925	234	117.	569.3	3183.1
1		0250	35	0.	.1	3161.0	1		1110	135	124.	651.5	3185.5	1		1930	235	117.	568.5	3183.1
1		0255	36	0.	.1	3161.0	1		1115	136	124.	650.6	3185.5	1		1935	236	117.	567.7	3183.1
1		0300	37	0.	.1	3161.0	1		1120	137	124.	649.7	3185.4	1		1940	237	117.	566.9	3183.1
1		0305	38	0.	.2	3161.0	1		1125	138	124.	648.9	3185.4	1		1945	238	117.	566.1	3183.1
1		0310	39	0.	.2	3161.0	1		1130	139	123.	648.0	3185.4	1		1950	239	117.	565.3	3183.0
1		0315	40	0.	.3	3161.0	1		1135	140	123.	647.2	3185.4	1		1955	240	117.	564.5	3183.0
1		0320	41	1.	.6	3161.1	1		1140	141	123.	646.3	3185.3	1		2000	241	117.	563.7	3183.0
1		0325	42	1.	1.1	3161.1	1		1145	142	123.	645.5	3185.3	1		2005	242	117.	562.9	3183.0
1		0330	43	2.	2.2	3161.2	1		1150	143	123.	644.7	3185.3	1		2010	243	117.	562.1	3182.9
1		0335	44	4.	4.0	3161.4	1		1155	144	123.	643.8	3185.3	1		2015	244	117.	561.3	3182.9
1		0340	45	7.	6.7	3161.7	1		1200	145	123.	643.0	3185.2	1		2020	245	117.	560.5	3182.9
1		0345	46	10.	10.0	3162.1	1		1205	146	123.	642.1	3185.2	1		2025	246	116.	559.7	3182.9
1		0350	47	12.	14.0	3162.3	1		1210	147	123.	641.3	3185.2	1		2030	247	116.	558.9	3182.8
1		0355	48	15.	18.6	3162.5	1		1215	148	123.	640.4	3185.2	1		2035	248	116.	558.1	3182.8
1		0400	49	17.	24.0	3162.8	1		1220	149	123.	639.6	3185.1	1		2040	249	116.	557.3	3182.8
1		0405	50	20.	30.6	3163.1	1		1225	150	123.	638.7	3185.1	1		2045	250	116.	556.5	3182.8
1		0410	51	24.	38.6	3163.5	1		1230	151	123.	637.9	3185.1	1		2050	251	116.	555.7	3182.8
1		0415	52	29.	48.1	3164.0	1		1235	152	123.	637.0	3185.1	1		2055	252	116.	554.9	3182.7
1		0420	53	34.	59.3	3164.6	1		1240	153	123.	636.2	3185.0	1		2100	253	116.	554.1	3182.7
1		0425	54	40.	72.5	3165.2	1		1245	154	122.	635.3	3185.0	1		2105	254	116.	553.3	3182.7
1		0430	55	48.	87.9	3166.0	1		1250	155	122.	634.5	3185.0	1		2110	255	116.	552.5	3182.7
1		0435	56	56.	105.6	3166.9	1		1255	156	122.	633.7	3185.0	1		2115	256	116.	551.7	3182.6
1		0440	57	60.	125.9	3167.8	1		1300	157	122.	632.8	3184.9	1		2120	257	116.	550.9	3182.6
1		0445	58	65.	148.6	3168.7	1		1305	158	122.	632.0	3184.9	1		2125	258	116.	550.1	3182.6
1		0450	59	69.	173.5	3169.7	1		1310	159	122.	631.1	3184.9	1		2130	259	116.	549.3	3182.6
1		0455	60	74.	200.2	3170.8	1		1315	160	122.	630.3	3184.9	1		2135	260	116.	548.5	3182.6
1		0500	61	79.	228.3	3171.9	1		1320	161	122.	629.5	3184.9	1		2140	261	115.	547.7	3182.5
1		0505	62	84.	257.1	3172.9	1		1325	162	122.	628.6	3184.8	1		2145	262	115.	546.9	3182.5
1		0510	63	87.	286.2	3174.0	1		1330	163	122.	627.8	3184.8	1		2150	263	115.	546.1	3182.5
1		0515	64	91.	314.8	3175.0	1		1335	164	122.	626.9	3184.8	1		2155	264	115.	545.3	3182.5
1		0520	65	95.	342.6	3176.0	1		1340	165	122.	626.1	3184.8	1		2200	265	115.	544.5	3182.4
1		0525	66	99.	369.4	3176.9	1		1345	166	122.	625.3	3184.7	1		2205	266	115.	543.7	3182.4
1		0530	67	101.	394.9	3177.7	1		1350	167	122.	624.4	3184.7	1		2210	267	115.	542.9	3182.4
1		0535	68	103.	419.0	3178.5	1		1355	168	122.	623.6	3184.7	1		2215	268	115.	542.1	3182.4
1		0540	69	106.	441.8	3179.2	1		1400	169	121.	622.7	3184.7	1		2220	269	115.	541.3	3182.4
1		0545	70	108.	463.3	3179.9	1		1405	170	121.	621.9	3184.6	1		2225	270	115.	540.6	3182.3
1		0550	71	110.	483.7	3180.6	1		1410	171	121.	621.1	3184.6	1		2230	271	115.	539.8	3182.3
1		0555	72	112.	503.0	3181.2	1		1415	172	121.	620.2	3184.6	1		2235	272	115.	539.0	3182.3
1		0600	73	113.	521.3	3181.8	1		1420	173	121.	619.4	3184.6	1		2240	273	115.	538.2	3182.3
1		0605	74	115.	538.6	3182.3	1		1425	174	121.	618.6	3184.5	1		2245	274	115.	537.4	3182.2
1		0610	75	116.	554.9	3182.7	1		1430	175	121.	617.7	3184.5	1		2250	275	115.	536.6	3182.2
1		0615	76	117.	570.1	3183.2	1		1435	176	121.	616.9	3184.5	1		2255	276	115.	535.8	3182.2
1		0620	77	118.	584.3	3183.6	1		1440	177	121.	616.1	3184.5	1		2300	277	114.	535.0	3182.2
1		0625	78	119.	597.3	3183.9	1		1445	178	121.	615.2	3184.4	1		2305	278	114.	534.2	3182.1
1		0630	79	120.	609.2	3184.3	1		1450	179	121.	614.4	3184.4	1		2310	279	114.	533.5	3182.1
1		0635	80	121.	619.9	3184.6	1		1455	180	121.	613.6	3184.4	1		2315	280	114.	532.7	3182.1
1		0640	81	122.	629.3	3184.9	1		1500	181	121.	612.7	3184.4	1		2320	281	114.	531.9	3182.1
1		0645	82	123.	637.7	3185.1	1		1505	182	121.	611.9	3184.4	1		2325	282	114.	531.1	3182.1
1		0650	83	123.	645.0	3185.3	1		1510	183	121.	611.1	3184.3	1		2330	283	114.	530.3	3182.0
1		0655	84	124.	651.3	3185.5	1		1515	184	120.	610.3	3184.3	1		2335	284	114.	529.5	3182.0
1		0700	85	124.	656.7	3185.6	1		1520	185	120.	609.4	3184.3	1		2340	285	114.	528.7	3182.0
1		0705	86	125.	661.4	3185.8	1		1525	186	120.	608.6	3184.3	1		2345	286	114.	527.9	3182.0
1		0710	87	125.	665.3	3185.9	1		1530	187	120.	607.8	3184.2	1		2350	287	114.	527.2	3181.9
1		0715	88	125.	668.6	3186.0	1		1535	188	120.	606.9	3184.2	1		2355	288	114.	526.4	3181.9
1		0720	89	125.	671.3	3186.0	1		1540	189	120.	606.1	3184.2	2		0000	289	114.	525.6	3181.9
1		0725	90	126.	673.6	3186.1	1		1545	190	120.	605.3	3184.2	2		0005	290	114.	524.8	3181.9
1		0730	91	126.	675.4	3186.2	1		1550	191	120.	604.5	3184.1	2		0010	291	114.	524.0	3181.8
1		0735	92	126.	676.8	3186.2	1		1555	192	120.	603.6	3184.1	2		0015	292	113.	523.3	3181.8
1		0740	93	126.	677.9	3186.2	1		1600	193	120.	602.8	3184.1	2		0020	293	113.	522.5	3181.8
1		0745	94	126.	678.7	3186.3	1		1605	194	120.	602.0	3184.1	2		0025	294	113.	521.7	3181.8
1		0750	95	126.	679.2	3186.3	1		1610	195	120.	601.2	3184.0	2		0030	295	113.	520.9	3181.7
1		0755	96	126.	679.5	3186.3	1		1615	196	120.	600.3	3184.0	2		0035	296	113.	520.1	3181.7
1		0800	97	126.	679.6	3186.3	1		1620	197	120.	599.5	3184.0	2		0040	297	113.	519.4	3181.7
1		0805	98	126.	679.6	3186.3	1		1625	198	120.	598.7	3184.0	2		0045	298	113.	518.6	3181.7
1		0810	99	126.	679.4	3186.3	1		1630	199	119.	597.9	3184.0	2		0050	299	113.	517.8	3181.6
1		0815	100	126.	679.1	3186.3	1		1635	200	119.	597.0	3183.9	2		0055	300	113.	517.0	3181.6

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 126.	8.00	125.	101.	97.	97.
		(INCHES) .021	.069	.069	.069
		(AC-FT) 62.	200.	200.	200.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
680.	8.00	661.	496.	478.	478.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3186.28	8.00	3185.75	3180.14	3179.44	3179.44

CUMULATIVE AREA = 54.73 SQ MI

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PEAK FLOW AND STAGE (END-OF-PERIOD) SUMMARY FOR MULTIPLE PLAN-RATIO ECONOMIC COMPUTATIONS
FLOWS IN CUBIC FEET PER SECOND, AREA IN SQUARE MILES
TIME TO PEAK IN HOURS

OPERATION	STATION	AREA	PLAN		RATIOS APPLIED TO PRECIPITATION RATIO 1 .99	RATIO 2 .98	RATIO 3 .95	RATIO 4 .93	RATIO 5 .92	RATIO 6 .91	RATIO 7 .90	RATIO 8 .89	RATIO 9 .88
HYDROGRAPH AT													
+	RR1	4.22	1	FLOW	828.	800.	753.	706.	688.	675.	666.	652.	634.
				TIME	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92
HYDROGRAPH AT													
+	RR2	3.55	1	FLOW	638.	617.	582.	548.	534.	525.	518.	508.	494.
				TIME	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08
ROUTED TO													
+	RRR2	3.55	1	FLOW	638.	618.	581.	546.	532.	524.	516.	506.	492.
				TIME	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08
2 COMBINED AT													
+	CRR2	7.77	1	FLOW	1434.	1386.	1305.	1226.	1196.	1173.	1159.	1133.	1102.
				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
ROUTED TO													
+	RCRR2	7.77	1	FLOW	1338.	1292.	1216.	1141.	1111.	1091.	1076.	1053.	1025.
				TIME	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.33	4.33
HYDROGRAPH AT													
+	RR5	7.13	1	FLOW	1222.	1183.	1118.	1054.	1029.	1011.	999.	979.	954.

				TIME	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08
ROUTED TO													
+	R-RR5	7.13	1	FLOW	1176.	1139.	1077.	1016.	992.	975.	964.	944.	921.
				TIME	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33
HYDROGRAPH AT													
+	RR3	14.98	1	FLOW	1842.	1778.	1674.	1572.	1532.	1504.	1484.	1452.	1412.
				TIME	4.25	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33
3 COMBINED AT													
+	CRR3	29.89	1	FLOW	4345.	4200.	3961.	3726.	3633.	3569.	3522.	3449.	3358.
				TIME	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33
ROUTED TO													
+	RCRR3	29.89	1	FLOW	4089.	3951.	3722.	3497.	3408.	3347.	3304.	3235.	3150.
				TIME	4.75	4.75	4.75	4.75	4.75	4.83	4.83	4.83	4.83
HYDROGRAPH AT													
+	RR10	8.77	1	FLOW	674.	648.	605.	563.	546.	535.	526.	514.	498.
				TIME	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50
2 COMBINED AT													
+	CRR10	38.66	1	FLOW	4710.	4548.	4283.	4021.	3918.	3845.	3794.	3713.	3612.
				TIME	4.75	4.75	4.75	4.75	4.75	4.75	4.75	4.75	4.75
ROUTED TO													
+	RCRR10	38.66	1	FLOW	4508.	4356.	4104.	3857.	3759.	3691.	3643.	3565.	3470.
				TIME	5.17	5.17	5.17	5.17	5.17	5.17	5.17	5.17	5.17
HYDROGRAPH AT													
+	RR12A	5.82	1	FLOW	706.	682.	642.	602.	586.	576.	568.	556.	540.
				TIME	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25
ROUTED TO													
+	R-RR12A	5.82	1	FLOW	680.	656.	617.	579.	564.	553.	546.	535.	520.
				TIME	4.50	4.50	4.50	4.50	4.50	4.58	4.58	4.58	4.58
HYDROGRAPH AT													
+	104A	3.39	1	FLOW	86.	81.	73.	67.	65.	63.	62.	60.	58.
				TIME	4.58	4.58	5.25	5.25	5.25	5.25	5.25	5.25	5.25
3 COMBINED AT													
+	C104A	47.87	1	FLOW	5062.	4888.	4602.	4326.	4217.	4141.	4087.	4000.	3893.
				TIME	5.08	5.08	5.17	5.17	5.17	5.17	5.17	5.17	5.17
HYDROGRAPH AT													
+	RD1	.43	1	FLOW	89.	86.	81.	75.	73.	72.	71.	69.	67.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
ROUTED TO													
+	R-RD1	.43	1	FLOW	87.	84.	78.	74.	72.	71.	70.	68.	66.
				TIME	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75
HYDROGRAPH AT													
+	RD2	.47	1	FLOW	164.	159.	152.	144.	141.	139.	138.	135.	132.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT													
+	CRD2	.90	1	FLOW	237.	228.	216.	204.	200.	196.	194.	190.	184.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
ROUTED TO													
+	RCRD2	.90	1	FLOW	230.	222.	209.	197.	194.	188.	185.	185.	176.
				TIME	3.67	3.67	3.67	3.67	3.75	3.75	3.67	3.75	3.75
HYDROGRAPH AT													
+	RD3	.33	1	FLOW	100.	96.	92.	87.	85.	83.	82.	81.	79.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT													
+	CRD3	1.23	1	FLOW	323.	313.	295.	279.	270.	265.	264.	258.	250.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT													
+	RR14A	4.60	1	FLOW	642.	620.	585.	550.	537.	527.	520.	509.	496.
				TIME	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25
ROUTED TO													
+	R-RR14A	4.60	1	FLOW	637.	616.	582.	547.	532.	524.	516.	506.	493.
				TIME	4.25	4.25	4.25	4.33	4.33	4.33	4.33	4.33	4.33
HYDROGRAPH AT													
+	RD4	.40	1	FLOW	71.	68.	63.	59.	57.	55.	55.	53.	51.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
2 COMBINED AT													
+	CRD4	5.00	1	FLOW	652.	631.	596.	559.	544.	535.	528.	517.	503.
				TIME	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.33
ROUTED TO													
+	RCRD4	5.00	1	FLOW	650.	628.	593.	558.	543.	536.	527.	517.	503.
				TIME	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33

HYDROGRAPH AT													
+	RD5	.37	1	FLOW	70.	68.	63.	58.	57.	55.	54.	53.	51.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT													
+	CRD5	5.37	1	FLOW	661.	640.	604.	568.	553.	545.	537.	527.	512.
				TIME	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33
ROUTED TO													
+	RCRD5	5.37	1	FLOW	660.	638.	603.	566.	552.	543.	534.	524.	510.
				TIME	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.42
HYDROGRAPH AT													
+	RD6	.25	1	FLOW	74.	72.	68.	65.	63.	62.	61.	60.	59.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT													
+	CRD6	5.62	1	FLOW	670.	647.	612.	574.	561.	551.	543.	533.	518.
				TIME	4.33	4.33	4.33	4.33	4.33	4.33	4.42	4.33	4.42
3 COMBINED AT													
+	INRR	54.73	1	FLOW	5590.	5402.	5092.	4785.	4665.	4580.	4520.	4425.	4307.
				TIME	5.08	5.08	5.08	5.08	5.08	5.08	5.08	5.08	5.08
ROUTED TO													
+	RRDB	54.73	1	FLOW	139.	137.	134.	131.	130.	129.	128.	127.	126.
				TIME	8.08	8.08	8.00	8.00	8.00	8.00	8.00	8.00	8.00
				** PEAK STAGES IN FEET **									
			1	STAGE	3191.45	3190.70	3189.46	3188.25	3187.77	3187.44	3187.20	3186.80	3186.28
				TIME	8.08	8.08	8.00	8.00	8.00	8.00	8.00	8.00	8.00
DIVERSION TO													
+	*D-RROUT	54.73	1	FLOW	0.	0.	0.	0.	0.	0.	0.	0.	0.
				TIME	.00	.00	.00	.00	.00	.00	.00	.00	.00
HYDROGRAPH AT													
+	*DOUTRR	54.73	1	FLOW	139.	137.	134.	131.	130.	129.	128.	127.	126.
				TIME	8.08	8.08	8.00	8.00	8.00	8.00	8.00	8.00	8.00
ROUTED TO													
+	ROUTRR	54.73	1	FLOW	139.	137.	134.	131.	130.	129.	128.	127.	126.
				TIME	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08
HYDROGRAPH AT													
+	R3A	.19	1	FLOW	28.	27.	25.	23.	22.	22.	21.	20.	20.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT													
+	CR3A	54.92	1	FLOW	139.	137.	134.	131.	130.	129.	128.	127.	126.
				TIME	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08
ROUTED TO													
+	RCR3A	54.92	1	FLOW	139.	137.	134.	131.	130.	129.	128.	127.	126.
				TIME	8.25	8.17	8.17	8.17	8.17	8.17	8.17	8.17	8.17

1

*** NORMAL END OF HEC-1 ***

B.3.2 2-year_FLAM4A

```
1****************************************
 *                                      *
 *   FLOOD HYDROGRAPH PACKAGE  (HEC-1)  *
 *              JUN   1998              *
 *           VERSION 4.1                *
 *                                      *
 *  RUN DATE   20MAY20  TIME  09:36:22  *
 *                                      *
 ****************************************
```

```
************************************
*                                  *
*    U.S. ARMY CORPS OF ENGINEERS  *
*    HYDROLOGIC ENGINEERING CENTER *
*         609 SECOND STREET        *
*       DAVIS, CALIFORNIA 95616    *
*            (916) 756-1104        *
*                                  *
************************************
```

```
X     X  XXXXXXX   XXXXX           X
X     X  X        X     X         XX
X     X  X        X               X
XXXXXXX  XXXX     X        XXXXX  X
X     X  X        X               X
X     X  X        X     X         X
X     X  XXXXXXX   XXXXX          XXX
```

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL   LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM


```
          LINE      ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

                    *DIAGRAM
 *** FREE ***
               1    ID   RED ROCK TRAIL TO FY19-87
               2    ID   US FEDERAL HIGHWAY ADMINISTRATION
               3    ID   PN WXXY4000
               4    ID
               5    ID   HEC-1 MODEL TAKEN FROM CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT (CCRFCD)
               6    ID   2018 MASTER PLAN UPDATE
               7    ID   FLAMINGO / TROPICANA WASHES WATERSHED
               8    ID   RECOMMENDED DRAINAGE SYSTEM WITH ULTIMATE DEVELOPMENT
               9    ID   INPUT FILE = FLAM4A.DAT
              10    ID   INPUT FILE DATE = MAY 2020
              11    ID   PRECIPITATION VALUES TAKEN FROM NOAA ATLAS 2 &
              12    ID   ADJUSTED PER CCRFCD HYDRAULIC CRITERIA & DRAINAGE DESIGN MANUAL TABLE 501
              13    ID   DESIGN STORM = 2-YEAR, 6-HOUR STORM
              14    ID   STORM DISTRIBUTION = SDN4
              15    ID   STORM CENTERING = SERIES A: REGIONAL DETENTION BASIN FLOWS NOT DIVERTED OUT
              16    ID   MODELED BY JACOBS (DAVE BERGH, PE)
              17    ID
              18    ID   JR CARDS CONTAIN DARFS BASED ON THE FOLLOWING VALUES:
              19    ID
              20    ID         AREA    DARF
              21    ID         SQ.MI.
              22    ID                 SDN 3   SDN 4   SDN 5
              23    ID         0 - 0.5 0.990
              24    ID         0.5 - 1 0.975
              25    ID         1 - 2   0.950
              26    ID         2 - 3   0.925
              27    ID         3 - 4   0.915
              28    ID         4 - 5   0.908
              29    ID         5 - 6   0.903
              30    ID         6 - 7   0.895
              31    ID         7 - 8   0.885
              32    ID         8 - 9           0.875
              33    ID         9 - 10          0.865
              34    ID         10 - 11         0.857
              35    ID         11 - 12         0.850
              36    ID         12 - 16                 0.832
              37    ID         16 - 20                 0.804
              38    ID         20 - 30                 0.765
              39    ID         30 - 40                 0.725
              40    ID         40 - 50                 0.695
              41    ID         50 - 100                0.640
              42    ID         100 - 150               0.580
              43    ID         150 - 200               0.530
              44    ID
              45    IT      5       0       0     300
              46    IO      5       0       0
              47    IN      5       0       0
              48    JR    PREC   0.875   0.865   0.857    0.85
                    *
```



```
          LINE      ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

              49    KK     RR1
              50    BA   4.225
              51    PB    1.34
              52    PC       0    0.02   0.058   0.075   0.099   0.126   0.137   0.145   0.149   0.151
              53    PC   0.155   0.156   0.159   0.162   0.169   0.172   0.179   0.189   0.201   0.211
              54    PC    0.22   0.228   0.232    0.24   0.246   0.252    0.26   0.269   0.276   0.283
              55    PC   0.286   0.292   0.302   0.312   0.321   0.332   0.352   0.376   0.415   0.462
              56    PC    0.53    0.61    0.71   0.732   0.756   0.782   0.799   0.813   0.823    0.83
              57    PC   0.835   0.844   0.851   0.864   0.885   0.908   0.924   0.944   0.968   0.973
              58    PC   0.978   0.982   0.984   0.986   0.988   0.991   0.992   0.993   0.994   0.997
              59    PC   0.998   0.999       1
              60    LS       0    85.8
              61    UD   0.443
                    *

              62    KK     RR2
              63    BA   3.547
              64    PB    1.34
              65    LS       0    86.2
              66    UD   0.545
                    *

              67    KK    RRR2
              68    KM   MUSKINGUM ROUTING UNSTABLE - USED MUSKINGUM-CUNGE
              69    KM   NATURAL WASH
              70    RD    1700   0.076    0.04       0    TRAP     100       2
                    *

              71    KK    CRR2
              72    KM   COMBINE RR1 AND RRR2
              73    HC       2
                    *

              74    KK   RCRR2
              75    KM   ROUTE CRR2 TO CRR3
              76    KM   NATURAL WASH
              77    KM   TRAVEL LENGTH = 15850
              78    KM   SLOPE = 0.043
              79    KM   N = 0.04
              80    KM   HYDRAULIC RADIUS = 1.5
              81    KM   VELOCITY = 16.2
              82    RM       3   0.272    0.15
                    *

              83    KK     RR5
              84    BA   7.132
              85    PB    1.25
              86    LS       0    87.9
              87    UD   0.615
                    *
```



```
          LINE      ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

              88    KK   R-RR5
              89    KM   ROUTE RR5 THROUGH RR3 TO CRR3
              90    KM   NATURAL WASH
              91    KM   TRAVEL LENGTH = 10700
              92    KM   SLOPE = 0.037
              93    KM   N = 0.04
              94    KM   HYDRAULIC RADIUS = 1.5
              95    KM   VELOCITY = 15
              96    RM       2   0.198    0.15
                    *

              97    KK     RR3
              98    BA  14.983
              99    PB    1.20
             100    LS       0      87
             101    UD   0.761
                    *

             102    KK    CRR3
             103    KM   COMBINE RCRR2, R-RR5, AND RR3
             104    HC       3
                    *

             105    KK   RCRR3
             106    KM   ROUTE CRR3 THROUGH RR10 TO CRR10
             107    KM   NATURAL WASH
             108    KM   TRAVEL LENGTH = 20700
             109    KM   SLOPE = 0.025
             110    KM   N = 0.04
             111    KM   HYDRAULIC RADIUS = 1.5
             112    KM   VELOCITY = 12.3
             113    RM       6   0.466    0.15
                    *

             114    KK    RR10
             115    BA   8.775
             116    PB    1.08
             117    LS       0    86.1
             118    UD   0.882
```

```
                 *

 119             KK   CRR10
 120             KM   COMBINE RCRR3 AND RR10
 121             HC       2
                 *

 122             KK  RCRR10
 123             KM   ROUTE CRR10 THROUGH 104A TO C104A (RED ROCK DETENTION BASIN)
 124             KM   NATURAL WASH
 125             KM   TRAVEL LENGTH = 14500
 126             KM   SLOPE = 0.021
 127             KM   N = 0.04
 128             KM   HYDRAULIC RADIUS = 1.5
 129             KM   VELOCITY = 11.3
1                                    HEC-1 INPUT                                    PAGE  4

LINE             ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 130             RM       4   0.356    0.15
                 *

 131             KK   RR12A
 132             BA   5.821
 133             PB    1.14
 134             LS       0    87.6
 135             UD   0.728
                 *

 136             KK R-RR12A
 137             KM   ROUTE RR12A THROUGH 104A TO C104A (RED ROCK DETENTION BASIN)
 138             KM   NATURAL WASH
 139             KM   TRAVEL LENGTH = 12000
 140             KM   SLOPE = 0.026
 141             KM   N = 0.04
 142             KM   HYDRAULIC RADIUS = 1.5
 143             KM   VELOCITY = 12.6
 144             RM       3   0.265    0.15
                 *

 145             KK    104A
 146             BA   3.391
 147             PB    0.96
 148             LS       0    81.3
 149             UD   0.801
                 *

 150             KK   C104A
 151             KM   COMBINE RCRR10, R-RR12A, AND 104A
 152             HC       3
                 *

 153             KK     RD1
 154             BA   0.431
 155             PB    1.12
 156             LS       0    86.6
 157             UD   0.195
                 *

 158             KK   R-RD1
 159             KM   ROUTE RD1 THROUGH RD2 TO CRD2
 160             KM   FUTURE CONCRETE CHANNEL
 161             RD    5100   0.061   0.015       0    TRAP      12       2
                 *

 162             KK     RD2
 163             BA   0.473
 164             PB    1.08
 165             LS       0    91.2
 166             UD   0.167
                 *
1                                    HEC-1 INPUT                                    PAGE  5

LINE             ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 167             KK    CRD2
 168             KM   COMBINE R-RD1 AND RD2
 169             HC       2
                 *

 170             KK   RCRD2
 171             KM   ROUTE CRD2 TO CRD3 (RED ROCK DETENTION BASIN)
 172             KM   FUTURE CONCRETE CHANNEL
 173             RD    4600    0.05   0.015       0    TRAP      12       2
                 *

 174             KK     RD3
 175             BA    0.33
 176             PB    1.06
 177             LS       0    90.3
 178             UD   0.168
                 *

 179             KK    CRD3
 180             KM   COMBINE RCRD2 AND RD3
 181             HC       2
                 *

 182             KK   RR14A
 183             BA   4.602
 184             PB    1.23
 185             LS       0    87.3
 186             UD   0.725
                 *

 187             KK R-RR14A
 188             KM   ROUTE RR14A THROUGH RD4 TO CRD4
 189             KM   FUTURE CONCRETE CHANNEL
 190             RD    5500   0.071   0.015       0    TRAP      12       2
                 *

 191             KK     RD4
 192             BA   0.402
 193             PB    1.12
 194             LS       0    85.1
 195             UD   0.177
                 *

 196             KK    CRD4
 197             KM   COMBINE R-RR14A AND RD4
 198             HC       2
                 *

 199             KK   RCRD4
 200             KM   ROUTE CRD4 THROUGH RD5 TO CRD5
 201             KM   FUTURE CONCRETE CHANNEL
 202             RD    4550   0.067   0.015       0    TRAP      20       2
                 *
1                                    HEC-1 INPUT                                    PAGE  6

LINE             ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 203             KK     RD5
 204             BA    0.37
 205             PB    1.08
 206             LS       0    86.2
 207             UD   0.163
                 *

 208             KK    CRD5
 209             KM   COMBINE RCRD4 AND RD5
 210             HC       2
                 *

 211             KK   RCRD5
 212             KM   ROUTE CRD5 THROUGH RD6 TO CRD6 (RED ROCK DETENTION BASIN)
 213             KM   FUTURE CONCRETE CHANNEL
 214             RD    5600   0.047   0.015       0    TRAP      20       2
                 *

 215             KK     RD6
 216             BA    0.25
 217             PB    1.06
 218             LS       0      90
 219             UD    0.16
                 *

 220             KK    CRD6
 221             KM   COMBINE RCRD5 AND RD6
 222             HC       2
                 *

 223             KK    INRR
 224             KM   COMBINE C104A, CRD3, AND CRD6 - TOTAL INFLOW TO RED ROCK DETENTION BASIN
 225             KO       1
 226             HC       3
                 * ============================================================

 227             KK    RRDB
 228             KM   RED ROCK DETENTION BASIN
 229             KM   TAKEN FROM THE CORP MODELS FOR RED ROCK DETENTION BASIN
 230             KM   100YR COMPUTED PROBABILITY DETENTION DESIGN
 231             KM   FACILITY ID-MILE = RRWA 0716
 232             KM   STORAGE VOLUME = 2007 ACRE-FEET
 233             KM   OUTLET = 27"H x 27"W RCB ORIFICE
 234             KM   100-YR DISCHARGE = 182 CFS
 235             KM   SPILLWAY LENGTH = 600 FT
 236             KM   AUXILLARY OGEE SPILLWAY LENGTH = 323 FT
 237             KM   SPILLWAY CREST ELEVATION = 3212.5 FT NGVD
 238             KM   PMF DISCHARGE = 110000 CFS
 239             KM   TOP OF DAM ELEVATION = 3225 FT NGVD
 240             KO       1
 241             RS       1    STOR      -1
 242             SV       0       9     107     231     372     529     705     903    1125    1376
 243             SV    1659    1974    2007    2115    2331    2690    2933
 244             SQ       0      10      57      80      99     114     128     140     151     162
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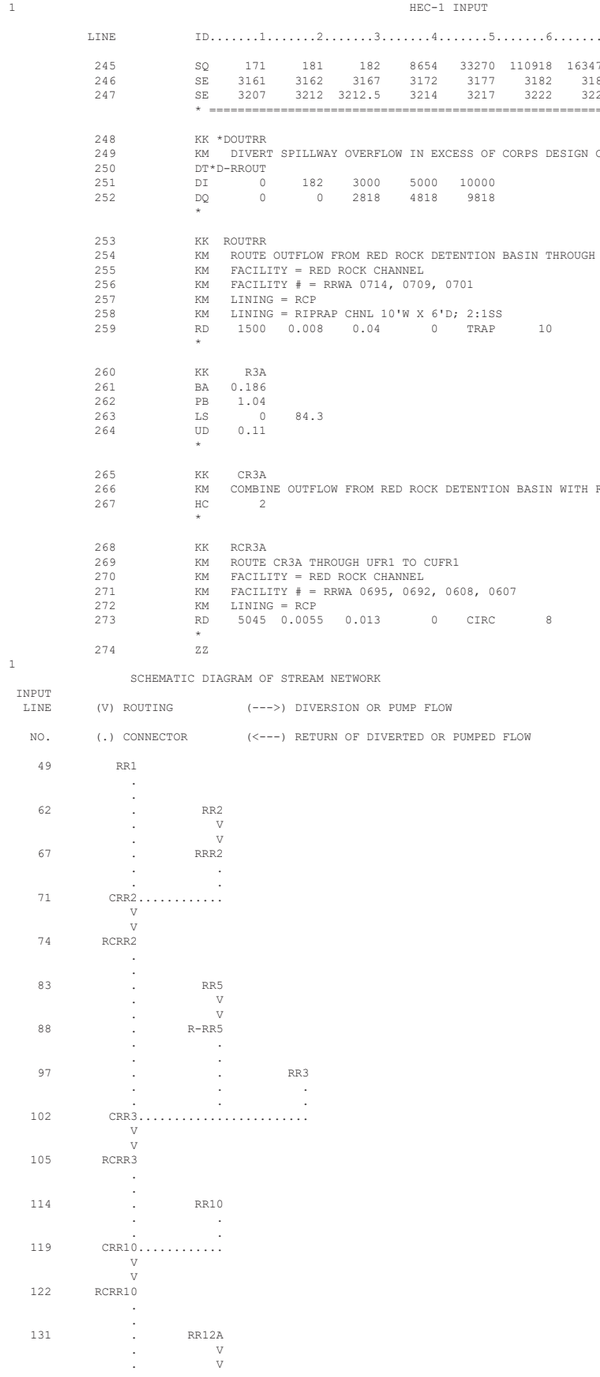
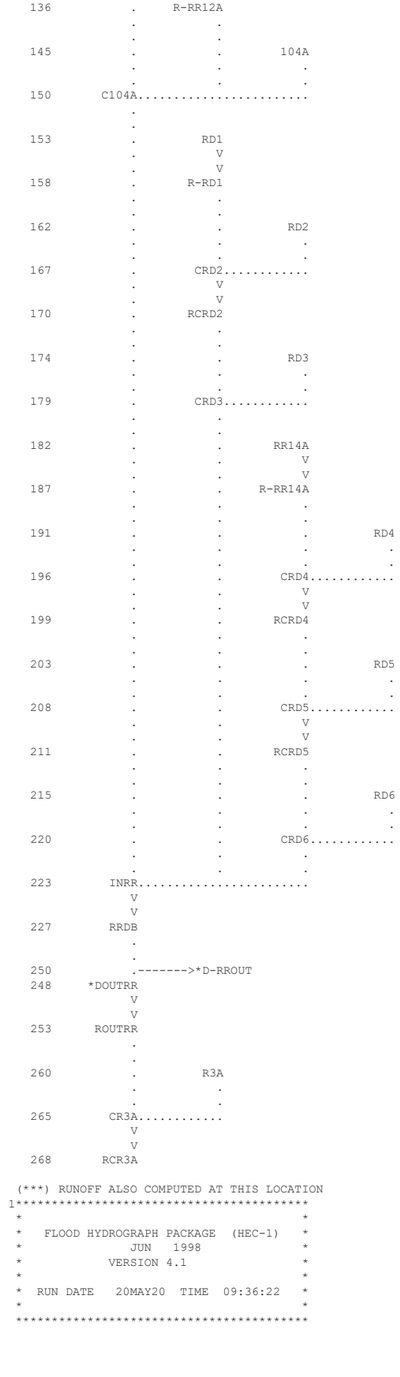
```
  LINE          ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

  245           SQ     171     181     182    8654   33270  110918  163477
  246           SE    3161    3162    3167    3172    3177    3182    3187    3192    3197    3202
  247           SE    3207    3212  3212.5    3214    3217    3222    3225
                * ========================================================

  248           KK *DOUTRR
  249           KM   DIVERT SPILLWAY OVERFLOW IN EXCESS OF CORPS DESIGN OUTFLOW
  250           DT*D-RROUT
  251           DI       0     182    3000    5000   10000
  252           DQ       0       0    2818    4818    9818
                *

  253           KK  ROUTRR
  254           KM   ROUTE OUTFLOW FROM RED ROCK DETENTION BASIN THROUGH R3A TO CR3A
  255           KM   FACILITY = RED ROCK CHANNEL
  256           KM   FACILITY # = RRWA 0714, 0709, 0701
  257           KM   LINING = RCP
  258           KM   LINING = RIPRAP CHNL 10'W X 6'D; 2:1SS
  259           RD    1500   0.008    0.04       0    TRAP      10       2
                *

  260           KK     R3A
  261           BA   0.186
  262           PB    1.04
  263           LS       0    84.3
  264           UD    0.11
                *

  265           KK    CR3A
  266           KM   COMBINE OUTFLOW FROM RED ROCK DETENTION BASIN WITH R3A
  267           HC       2
                *

  268           KK   RCR3A
  269           KM   ROUTE CR3A THROUGH UFR1 TO CUFR1
  270           KM   FACILITY = RED ROCK CHANNEL
  271           KM   FACILITY # = RRWA 0695, 0692, 0608, 0607
  272           KM   LINING = RCP
  273           RD    5045  0.0055   0.013       0    CIRC       8       0
                *

  274           ZZ
```

1

SCHEMATIC DIAGRAM OF STREAM NETWORK

INPUT
LINE (V) ROUTING (---->) DIVERSION OR PUMP FLOW
NO. (.) CONNECTOR (<---) RETURN OF DIVERTED OR PUMPED FLOW





(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

```
1*****************************************
 *                                       *
 *   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
 *             JUN   1998                *
 *          VERSION 4.1                  *
 *                                       *
 *  RUN DATE   20MAY20  TIME  09:36:22   *
 *                                       *
 *****************************************
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*                                   *
*    U.S. ARMY CORPS OF ENGINEERS   *
*    HYDROLOGIC ENGINEERING CENTER  *
*         609 SECOND STREET         *
*       DAVIS, CALIFORNIA 95616     *
*           (916) 756-1104          *
*                                   *
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RED ROCK TRAIL TO FY19-87
US FEDERAL HIGHWAY ADMINISTRATION
PN WXXY4000

HEC-1 MODEL TAKEN FROM CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT (CCRFCD)
2018 MASTER PLAN UPDATE
FLAMINGO / TROPICANA WASHES WATERSHED
RECOMMENDED DRAINAGE SYSTEM WITH ULTIMATE DEVELOPMENT
INPUT FILE = FLAM4A.DAT
INPUT FILE DATE = MAY 2020
PRECIPITATION VALUES TAKEN FROM NOAA ATLAS 2 &
ADJUSTED PER CCRFCD HYDRAULIC CRITERIA & DRAINAGE DESIGN MANUAL TABLE 501
DESIGN STORM = 2-YEAR, 6-HOUR STORM
STORM DISTRIBUTION = SDN4
STORM CENTERING = SERIES A: REGIONAL DETENTION BASIN FLOWS NOT DIVERTED OUT
MODELED BY JACOBS (DAVE BERGH, PE)

JR CARDS CONTAIN DARFS BASED ON THE FOLLOWING VALUES:

       AREA    DARF
       SQ.MI.
               SDN 3   SDN 4   SDN 5
       0 - 0.5 0.990
       0.5 - 1 0.975
       1 - 2   0.950
       2 - 3   0.925
       3 - 4   0.915
       4 - 5   0.908
       5 - 6   0.903
       6 - 7   0.895
       7 - 8   0.885
       8 - 9           0.875
       9 - 10          0.865
       10 - 11         0.857
       11 - 12         0.850
       12 - 16                 0.832
       16 - 20                 0.804
       20 - 30                 0.765
       30 - 40                 0.725
       40 - 50                 0.695
       50 - 100                0.640
       100 - 150               0.580
       150 - 200               0.530

 46 IO         OUTPUT CONTROL VARIABLES
                    IPRNT          5  PRINT CONTROL
                    IPLOT          0  PLOT CONTROL
                    QSCAL          0.  HYDROGRAPH PLOT SCALE

    IT         HYDROGRAPH TIME DATA
                     NMIN          5  MINUTES IN COMPUTATION INTERVAL
                    IDATE      1   0  STARTING DATE
                    ITIME       0000  STARTING TIME
                       NQ        300  NUMBER OF HYDROGRAPH ORDINATES
                   NDDATE      2   0  ENDING DATE
                   NDTIME       0055  ENDING TIME
                    ICENT         19  CENTURY MARK

                 COMPUTATION INTERVAL     .08 HOURS
                     TOTAL TIME BASE   24.92 HOURS

       ENGLISH UNITS
            DRAINAGE AREA         SQUARE MILES
            PRECIPITATION DEPTH   INCHES
            LENGTH, ELEVATION     FEET
            FLOW                  CUBIC FEET PER SECOND
            STORAGE VOLUME        ACRE-FEET
            SURFACE AREA          ACRES
            TEMPERATURE           DEGREES FAHRENHEIT

    JP         MULTI-PLAN OPTION
                    NPLAN          1  NUMBER OF PLANS

    JR         MULTI-RATIO OPTION
                   RATIOS OF PRECIPITATION
                   .88      .87      .86      .85

*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


         **************
         *            *
223 KK   *     INRR   *
         *            *
         **************

225 KO         OUTPUT CONTROL VARIABLES
                    IPRNT          1  PRINT CONTROL
                    IPLOT          0  PLOT CONTROL
                    QSCAL          0.  HYDROGRAPH PLOT SCALE

226 HC         HYDROGRAPH COMBINATION
                    ICOMP          3  NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .88

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	1	0615	76	2413.	1	1230	151	0.	1	1845	226	0.
1	0005	2	0.	1	0620	77	2261.	1	1235	152	0.	1	1850	227	0.
1	0010	3	0.	1	0625	78	2095.	1	1240	153	0.	1	1855	228	0.
1	0015	4	0.	1	0630	79	1919.	1	1245	154	0.	1	1900	229	0.
1	0020	5	0.	1	0635	80	1739.	1	1250	155	0.	1	1905	230	0.
1	0025	6	0.	1	0640	81	1560.	1	1255	156	0.	1	1910	231	0.
1	0030	7	0.	1	0645	82	1388.	1	1300	157	0.	1	1915	232	0.
1	0035	8	0.	1	0650	83	1228.	1	1305	158	0.	1	1920	233	0.
1	0040	9	0.	1	0655	84	1080.	1	1310	159	0.	1	1925	234	0.
1	0045	10	0.	1	0700	85	948.	1	1315	160	0.	1	1930	235	0.
1	0050	11	0.	1	0705	86	829.	1	1320	161	0.	1	1935	236	0.
1	0055	12	0.	1	0710	87	723.	1	1325	162	0.	1	1940	237	0.
1	0100	13	0.	1	0715	88	630.	1	1330	163	0.	1	1945	238	0.
1	0105	14	0.	1	0720	89	546.	1	1335	164	0.	1	1950	239	0.
1	0110	15	0.	1	0725	90	471.	1	1340	165	0.	1	1955	240	0.
1	0115	16	0.	1	0730	91	405.	1	1345	166	0.	1	2000	241	0.
1	0120	17	0.	1	0735	92	346.	1	1350	167	0.	1	2005	242	0.
1	0125	18	0.	1	0740	93	294.	1	1355	168	0.	1	2010	243	0.
1	0130	19	0.	1	0745	94	249.	1	1400	169	0.	1	2015	244	0.
1	0135	20	0.	1	0750	95	210.	1	1405	170	0.	1	2020	245	0.
1	0140	21	0.	1	0755	96	176.	1	1410	171	0.	1	2025	246	0.
1	0145	22	0.	1	0800	97	147.	1	1415	172	0.	1	2030	247	0.
1	0150	23	0.	1	0805	98	122.	1	1420	173	0.	1	2035	248	0.
1	0155	24	0.	1	0810	99	101.	1	1425	174	0.	1	2040	249	0.
1	0200	25	1.	1	0815	100	84.	1	1430	175	0.	1	2045	250	0.
1	0205	26	1.	1	0820	101	69.	1	1435	176	0.	1	2050	251	0.
1	0210	27	1.	1	0825	102	57.	1	1440	177	0.	1	2055	252	0.
1	0215	28	2.	1	0830	103	47.	1	1445	178	0.	1	2100	253	0.
1	0220	29	3.	1	0835	104	39.	1	1450	179	0.	1	2105	254	0.
1	0225	30	4.	1	0840	105	32.	1	1455	180	0.	1	2110	255	0.
1	0230	31	4.	1	0845	106	26.	1	1500	181	0.	1	2115	256	0.
1	0235	32	4.	1	0850	107	22.	1	1505	182	0.	1	2120	257	0.
1	0240	33	5.	1	0855	108	18.	1	1510	183	0.	1	2125	258	0.
1	0245	34	5.	1	0900	109	14.	1	1515	184	0.	1	2130	259	0.
1	0250	35	7.	1	0905	110	12.	1	1520	185	0.	1	2135	260	0.
1	0255	36	8.	1	0910	111	9.	1	1525	186	0.	1	2140	261	0.
1	0300	37	11.	1	0915	112	7.	1	1530	187	0.	1	2145	262	0.
1	0305	38	16.	1	0920	113	6.	1	1535	188	0.	1	2150	263	0.
1	0310	39	25.	1	0925	114	5.	1	1540	189	0.	1	2155	264	0.
1	0315	40	43.	1	0930	115	4.	1	1545	190	0.	1	2200	265	0.
1	0320	41	75.	1	0935	116	3.	1	1550	191	0.	1	2205	266	0.
1	0325	42	130.	1	0940	117	2.	1	1555	192	0.	1	2210	267	0.
1	0330	43	219.	1	0945	118	2.	1	1600	193	0.	1	2215	268	0.
1	0335	44	342.	1	0950	119	1.	1	1605	194	0.	1	2220	269	0.
1	0340	45	449.	1	0955	120	1.	1	1610	195	0.	1	2225	270	0.
1	0345	46	522.	1	1000	121	1.	1	1615	196	0.	1	2230	271	0.
1	0350	47	605.	1	1005	122	1.	1	1620	197	0.	1	2235	272	0.
1	0355	48	721.	1	1010	123	0.	1	1625	198	0.	1	2240	273	0.
1	0400	49	874.	1	1015	124	0.	1	1630	199	0.	1	2245	274	0.
1	0405	50	1051.	1	1020	125	0.	1	1635	200	0.	1	2250	275	0.
1	0410	51	1251.	1	1025	126	0.	1	1640	201	0.	1	2255	276	0.
1	0415	52	1472.	1	1030	127	0.	1	1645	202	0.	1	2300	277	0.
1	0420	53	1720.	1	1035	128	0.	1	1650	203	0.	1	2305	278	0.
1	0425	54	1995.	1	1040	129	0.	1	1655	204	0.	1	2310	279	0.
1	0430	55	2297.	1	1045	130	0.	1	1700	205	0.	1	2315	280	0.
1	0435	56	2619.	1	1050	131	0.	1	1705	206	0.	1	2320	281	0.
1	0440	57	2941.	1	1055	132	0.	1	1710	207	0.	1	2325	282	0.
1	0445	58	3237.	1	1100	133	0.	1	1715	208	0.	1	2330	283	0.
1	0450	59	3490.	1	1105	134	0.	1	1720	209	0.	1	2335	284	0.
1	0455	60	3687.	1	1110	135	0.	1	1725	210	0.	1	2340	285	0.
1	0500	61	3810.	1	1115	136	0.	1	1730	211	0.	1	2345	286	0.
1	0505	62	3857.	1	1120	137	0.	1	1735	212	0.	1	2350	287	0.
1	0510	63	3839.	1	1125	138	0.	1	1740	213	0.	1	2355	288	0.
1	0515	64	3773.	1	1130	139	0.	1	1745	214	0.	2	0000	289	0.
1	0520	65	3672.	1	1135	140	0.	1	1750	215	0.	2	0005	290	0.
1	0525	66	3549.	1	1140	141	0.	1	1755	216	0.	2	0010	291	0.
1	0530	67	3417.	1	1145	142	0.	1	1800	217	0.	2	0015	292	0.
1	0535	68	3286.	1	1150	143	0.	1	1805	218	0.	2	0020	293	0.
1	0540	69	3161.	1	1155	144	0.	1	1810	219	0.	2	0025	294	0.
1	0545	70	3050.	1	1200	145	0.	1	1815	220	0.	2	0030	295	0.
1	0550	71	2951.	1	1205	146	0.	1	1820	221	0.	2	0035	296	0.
1	0555	72	2858.	1	1210	147	0.	1	1825	222	0.	2	0040	297	0.
1	0600	73	2765.	1	1215	148	0.	1	1830	223	0.	2	0045	298	0.
1	0605	74	2663.	1	1220	149	0.	1	1835	224	0.	2	0050	299	0.
1	0610	75	2547.	1	1225	150	0.	1	1840	225	0.	2	0055	300	0.

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 3857.	5.08	1406.	352.	339.	339.
		(INCHES) .239	.239	.239	.239
		(AC-FT) 697.	698.	698.	698.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .87

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	2360.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	2212.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	2050.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	1878.	1		1245	154	0.	1		1900	229	0.
1		0020	5	0.	1		0635	80	1702.	1		1250	155	0.	1		1905	230	0.
1		0025	6	0.	1		0640	81	1527.	1		1255	156	0.	1		1910	231	0.
1		0030	7	0.	1		0645	82	1359.	1		1300	157	0.	1		1915	232	0.
1		0035	8	0.	1		0650	83	1202.	1		1305	158	0.	1		1920	233	0.
1		0040	9	0.	1		0655	84	1058.	1		1310	159	0.	1		1925	234	0.
1		0045	10	0.	1		0700	85	928.	1		1315	160	0.	1		1930	235	0.
1		0050	11	0.	1		0705	86	812.	1		1320	161	0.	1		1935	236	0.
1		0055	12	0.	1		0710	87	708.	1		1325	162	0.	1		1940	237	0.
1		0100	13	0.	1		0715	88	617.	1		1330	163	0.	1		1945	238	0.
1		0105	14	0.	1		0720	89	535.	1		1335	164	0.	1		1950	239	0.
1		0110	15	0.	1		0725	90	461.	1		1340	165	0.	1		1955	240	0.
1		0115	16	0.	1		0730	91	397.	1		1345	166	0.	1		2000	241	0.
1		0120	17	0.	1		0735	92	339.	1		1350	167	0.	1		2005	242	0.
1		0125	18	0.	1		0740	93	288.	1		1355	168	0.	1		2010	243	0.
1		0130	19	0.	1		0745	94	244.	1		1400	169	0.	1		2015	244	0.
1		0135	20	0.	1		0750	95	205.	1		1405	170	0.	1		2020	245	0.
1		0140	21	0.	1		0755	96	172.	1		1410	171	0.	1		2025	246	0.
1		0145	22	0.	1		0800	97	144.	1		1415	172	0.	1		2030	247	0.
1		0150	23	0.	1		0805	98	119.	1		1420	173	0.	1		2035	248	0.
1		0155	24	0.	1		0810	99	99.	1		1425	174	0.	1		2040	249	0.
1		0200	25	0.	1		0815	100	82.	1		1430	175	0.	1		2045	250	0.
1		0205	26	1.	1		0820	101	68.	1		1435	176	0.	1		2050	251	0.
1		0210	27	1.	1		0825	102	56.	1		1440	177	0.	1		2055	252	0.
1		0215	28	2.	1		0830	103	46.	1		1445	178	0.	1		2100	253	0.
1		0220	29	2.	1		0835	104	38.	1		1450	179	0.	1		2105	254	0.
1		0225	30	3.	1		0840	105	31.	1		1455	180	0.	1		2110	255	0.
1		0230	31	4.	1		0845	106	26.	1		1500	181	0.	1		2115	256	0.
1		0235	32	4.	1		0850	107	21.	1		1505	182	0.	1		2120	257	0.
1		0240	33	4.	1		0855	108	17.	1		1510	183	0.	1		2125	258	0.
1		0245	34	5.	1		0900	109	14.	1		1515	184	0.	1		2130	259	0.
1		0250	35	6.	1		0905	110	11.	1		1520	185	0.	1		2135	260	0.
1		0255	36	8.	1		0910	111	9.	1		1525	186	0.	1		2140	261	0.
1		0300	37	10.	1		0915	112	7.	1		1530	187	0.	1		2145	262	0.
1		0305	38	15.	1		0920	113	6.	1		1535	188	0.	1		2150	263	0.
1		0310	39	24.	1		0925	114	5.	1		1540	189	0.	1		2155	264	0.
1		0315	40	40.	1		0930	115	4.	1		1545	190	0.	1		2200	265	0.
1		0320	41	70.	1		0935	116	3.	1		1550	191	0.	1		2205	266	0.
1		0325	42	123.	1		0940	117	2.	1		1555	192	0.	1		2210	267	0.
1		0330	43	210.	1		0945	118	2.	1		1600	193	0.	1		2215	268	0.
1		0335	44	327.	1		0950	119	1.	1		1605	194	0.	1		2220	269	0.
1		0340	45	429.	1		0955	120	1.	1		1610	195	0.	1		2225	270	0.
1		0345	46	505.	1		1000	121	1.	1		1615	196	0.	1		2230	271	0.
1		0350	47	581.	1		1005	122	1.	1		1620	197	0.	1		2235	272	0.
1		0355	48	694.	1		1010	123	0.	1		1625	198	0.	1		2240	273	0.
1		0400	49	840.	1		1015	124	0.	1		1630	199	0.	1		2245	274	0.
1		0405	50	1012.	1		1020	125	0.	1		1635	200	0.	1		2250	275	0.
1		0410	51	1204.	1		1025	126	0.	1		1640	201	0.	1		2255	276	0.
1		0415	52	1418.	1		1030	127	0.	1		1645	202	0.	1		2300	277	0.
1		0420	53	1660.	1		1035	128	0.	1		1650	203	0.	1		2305	278	0.
1		0425	54	1928.	1		1040	129	0.	1		1655	204	0.	1		2310	279	0.
1		0430	55	2221.	1		1045	130	0.	1		1700	205	0.	1		2315	280	0.
1		0435	56	2534.	1		1050	131	0.	1		1705	206	0.	1		2320	281	0.
1		0440	57	2849.	1		1055	132	0.	1		1710	207	0.	1		2325	282	0.
1		0445	58	3138.	1		1100	133	0.	1		1715	208	0.	1		2330	283	0.
1		0450	59	3386.	1		1105	134	0.	1		1720	209	0.	1		2335	284	0.
1		0455	60	3582.	1		1110	135	0.	1		1725	210	0.	1		2340	285	0.
1		0500	61	3704.	1		1115	136	0.	1		1730	211	0.	1		2345	286	0.
1		0505	62	3750.	1		1120	137	0.	1		1735	212	0.	1		2350	287	0.
1		0510	63	3735.	1		1125	138	0.	1		1740	213	0.	1		2355	288	0.
1		0515	64	3673.	1		1130	139	0.	1		1745	214	0.	2		0000	289	0.
1		0520	65	3576.	1		1135	140	0.	1		1750	215	0.	2		0005	290	0.
1		0525	66	3458.	1		1140	141	0.	1		1755	216	0.	2		0010	291	0.
1		0530	67	3332.	1		1145	142	0.	1		1800	217	0.	2		0015	292	0.
1		0535	68	3205.	1		1150	143	0.	1		1805	218	0.	2		0020	293	0.
1		0540	69	3085.	1		1155	144	0.	1		1810	219	0.	2		0025	294	0.
1		0545	70	2978.	1		1200	145	0.	1		1815	220	0.	2		0030	295	0.
1		0550	71	2882.	1		1205	146	0.	1		1820	221	0.	2		0035	296	0.
1		0555	72	2793.	1		1210	147	0.	1		1825	222	0.	2		0040	297	0.
1		0600	73	2702.	1		1215	148	0.	1		1830	223	0.	2		0045	298	0.
1		0605	74	2603.	1		1220	149	0.	1		1835	224	0.	2		0050	299	0.
1		0610	75	2490.	1		1225	150	0.	1		1840	225	0.	2		0055	300	0.

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 3750.	5.08	1369.	343.	330.	330.
		(INCHES) .233	.233	.233	.233
		(AC-FT) 679.	680.	680.	680.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .86

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	2318.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	2173.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	2014.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	1845.	1		1245	154	0.	1		1900	229	0.
1		0020	5	0.	1		0635	80	1672.	1		1250	155	0.	1		1905	230	0.
1		0025	6	0.	1		0640	81	1501.	1		1255	156	0.	1		1910	231	0.
1		0030	7	0.	1		0645	82	1336.	1		1300	157	0.	1		1915	232	0.
1		0035	8	0.	1		0650	83	1181.	1		1305	158	0.	1		1920	233	0.
1		0040	9	0.	1		0655	84	1040.	1		1310	159	0.	1		1925	234	0.
1		0045	10	0.	1		0700	85	912.	1		1315	160	0.	1		1930	235	0.
1		0050	11	0.	1		0705	86	798.	1		1320	161	0.	1		1935	236	0.
1		0055	12	0.	1		0710	87	696.	1		1325	162	0.	1		1940	237	0.
1		0100	13	0.	1		0715	88	606.	1		1330	163	0.	1		1945	238	0.
1		0105	14	0.	1		0720	89	526.	1		1335	164	0.	1		1950	239	0.
1		0110	15	0.	1		0725	90	454.	1		1340	165	0.	1		1955	240	0.
1		0115	16	0.	1		0730	91	390.	1		1345	166	0.	1		2000	241	0.
1		0120	17	0.	1		0735	92	333.	1		1350	167	0.	1		2005	242	0.
1		0125	18	0.	1		0740	93	284.	1		1355	168	0.	1		2010	243	0.
1		0130	19	0.	1		0745	94	240.	1		1400	169	0.	1		2015	244	0.
1		0135	20	0.	1		0750	95	202.	1		1405	170	0.	1		2020	245	0.
1		0140	21	0.	1		0755	96	169.	1		1410	171	0.	1		2025	246	0.
1		0145	22	0.	1		0800	97	141.	1		1415	172	0.	1		2030	247	0.
1		0150	23	0.	1		0805	98	118.	1		1420	173	0.	1		2035	248	0.
1		0155	24	0.	1		0810	99	98.	1		1425	174	0.	1		2040	249	0.
1		0200	25	0.	1		0815	100	81.	1		1430	175	0.	1		2045	250	0.
1		0205	26	1.	1		0820	101	67.	1		1435	176	0.	1		2050	251	0.
1		0210	27	1.	1		0825	102	55.	1		1440	177	0.	1		2055	252	0.
1		0215	28	2.	1		0830	103	45.	1		1445	178	0.	1		2100	253	0.
1		0220	29	2.	1		0835	104	37.	1		1450	179	0.	1		2105	254	0.
1		0225	30	3.	1		0840	105	31.	1		1455	180	0.	1		2110	255	0.
1		0230	31	4.	1		0845	106	25.	1		1500	181	0.	1		2115	256	0.
1		0235	32	4.	1		0850	107	21.	1		1505	182	0.	1		2120	257	0.
1		0240	33	4.	1		0855	108	17.	1		1510	183	0.	1		2125	258	0.
1		0245	34	5.	1		0900	109	14.	1		1515	184	0.	1		2130	259	0.
1		0250	35	6.	1		0905	110	11.	1		1520	185	0.	1		2135	260	0.
1		0255	36	8.	1		0910	111	9.	1		1525	186	0.	1		2140	261	0.
1		0300	37	10.	1		0915	112	7.	1		1530	187	0.	1		2145	262	0.
1		0305	38	14.	1		0920	113	6.	1		1535	188	0.	1		2150	263	0.
1		0310	39	22.	1		0925	114	4.	1		1540	189	0.	1		2155	264	0.
1		0315	40	39.	1		0930	115	3.	1		1545	190	0.	1		2200	265	0.
1		0320	41	68.	1		0935	116	3.	1		1550	191	0.	1		2205	266	0.
1		0325	42	117.	1		0940	117	2.	1		1555	192	0.	1		2210	267	0.
1		0330	43	200.	1		0945	118	2.	1		1600	193	0.	1		2215	268	0.
1		0335	44	314.	1		0950	119	1.	1		1605	194	0.	1		2220	269	0.
1		0340	45	413.	1		0955	120	1.	1		1610	195	0.	1		2225	270	0.
1		0345	46	485.	1		1000	121	1.	1		1615	196	0.	1		2230	271	0.
1		0350	47	562.	1		1005	122	1.	1		1620	197	0.	1		2235	272	0.
1		0355	48	670.	1		1010	123	0.	1		1625	198	0.	1		2240	273	0.
1		0400	49	813.	1		1015	124	0.	1		1630	199	0.	1		2245	274	0.
1		0405	50	980.	1		1020	125	0.	1		1635	200	0.	1		2250	275	0.
1		0410	51	1168.	1		1025	126	0.	1		1640	201	0.	1		2255	276	0.
1		0415	52	1378.	1		1030	127	0.	1		1645	202	0.	1		2300	277	0.
1		0420	53	1612.	1		1035	128	0.	1		1650	203	0.	1		2305	278	0.
1		0425	54	1873.	1		1040	129	0.	1		1655	204	0.	1		2310	279	0.
1		0430	55	2161.	1		1045	130	0.	1		1700	205	0.	1		2315	280	0.
1		0435	56	2468.	1		1050	131	0.	1		1705	206	0.	1		2320	281	0.
1		0440	57	2776.	1		1055	132	0.	1		1710	207	0.	1		2325	282	0.
1		0445	58	3060.	1		1100	133	0.	1		1715	208	0.	1		2330	283	0.
1		0450	59	3305.	1		1105	134	0.	1		1720	209	0.	1		2335	284	0.
1		0455	60	3497.	1		1110	135	0.	1		1725	210	0.	1		2340	285	0.
1		0500	61	3618.	1		1115	136	0.	1		1730	211	0.	1		2345	286	0.
1		0505	62	3666.	1		1120	137	0.	1		1735	212	0.	1		2350	287	0.
1		0510	63	3653.	1		1125	138	0.	1		1740	213	0.	1		2355	288	0.
1		0515	64	3593.	1		1130	139	0.	1		1745	214	0.	2		0000	289	0.
1		0520	65	3500.	1		1135	140	0.	1		1750	215	0.	2		0005	290	0.
1		0525	66	3386.	1		1140	141	0.	1		1755	216	0.	2		0010	291	0.
1		0530	67	3263.	1		1145	142	0.	1		1800	217	0.	2		0015	292	0.

1	0535	68	3140.	1	1150	143	0.	1	1805	218	0.	2	0020	293	0.
1	0540	69	3025.	1	1155	144	0.	1	1810	219	0.	2	0025	294	0.
1	0545	70	2920.	1	1200	145	0.	1	1815	220	0.	2	0030	295	0.
1	0550	71	2827.	1	1205	146	0.	1	1820	221	0.	2	0035	296	0.
1	0555	72	2740.	1	1210	147	0.	1	1825	222	0.	2	0040	297	0.
1	0600	73	2653.	1	1215	148	0.	1	1830	223	0.	2	0045	298	0.
1	0605	74	2556.	1	1220	149	0.	1	1835	224	0.	2	0050	299	0.
1	0610	75	2445.	1	1225	150	0.	1	1840	225	0.	2	0055	300	0.

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	PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
				6-HR	24-HR	72-HR	24.92-HR
+	(CFS)	(HR)					
			(CFS)				
+	3666.	5.08		1339.	335.	323.	323.
			(INCHES)	.227	.228	.228	.228
			(AC-FT)	664.	665.	665.	665.

CUMULATIVE AREA = 54.73 SQ MI

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HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .85

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DA MON	HRMN	ORD	FLOW	DA MON	HRMN	ORD	FLOW	DA MON	HRMN	ORD	FLOW	DA MON	HRMN	ORD	FLOW
1	0000	1	0.	1	0615	76	2281.	1	1230	151	0.	1	1845	226	0.
1	0005	2	0.	1	0620	77	2139.	1	1235	152	0.	1	1850	227	0.
1	0010	3	0.	1	0625	78	1983.	1	1240	153	0.	1	1855	228	0.
1	0015	4	0.	1	0630	79	1817.	1	1245	154	0.	1	1900	229	0.
1	0020	5	0.	1	0635	80	1646.	1	1250	155	0.	1	1905	230	0.
1	0025	6	0.	1	0640	81	1478.	1	1255	156	0.	1	1910	231	0.
1	0030	7	0.	1	0645	82	1315.	1	1300	157	0.	1	1915	232	0.
1	0035	8	0.	1	0650	83	1163.	1	1305	158	0.	1	1920	233	0.
1	0040	9	0.	1	0655	84	1024.	1	1310	159	0.	1	1925	234	0.
1	0045	10	0.	1	0700	85	898.	1	1315	160	0.	1	1930	235	0.
1	0050	11	0.	1	0705	86	786.	1	1320	161	0.	1	1935	236	0.
1	0055	12	0.	1	0710	87	686.	1	1325	162	0.	1	1940	237	0.
1	0100	13	0.	1	0715	88	597.	1	1330	163	0.	1	1945	238	0.
1	0105	14	0.	1	0720	89	518.	1	1335	164	0.	1	1950	239	0.
1	0110	15	0.	1	0725	90	447.	1	1340	165	0.	1	1955	240	0.
1	0115	16	0.	1	0730	91	384.	1	1345	166	0.	1	2000	241	0.
1	0120	17	0.	1	0735	92	328.	1	1350	167	0.	1	2005	242	0.
1	0125	18	0.	1	0740	93	279.	1	1355	168	0.	1	2010	243	0.
1	0130	19	0.	1	0745	94	236.	1	1400	169	0.	1	2015	244	0.
1	0135	20	0.	1	0750	95	199.	1	1405	170	0.	1	2020	245	0.
1	0140	21	0.	1	0755	96	167.	1	1410	171	0.	1	2025	246	0.
1	0145	22	0.	1	0800	97	139.	1	1415	172	0.	1	2030	247	0.
1	0150	23	0.	1	0805	98	116.	1	1420	173	0.	1	2035	248	0.
1	0155	24	0.	1	0810	99	96.	1	1425	174	0.	1	2040	249	0.
1	0200	25	0.	1	0815	100	80.	1	1430	175	0.	1	2045	250	0.
1	0205	26	1.	1	0820	101	66.	1	1435	176	0.	1	2050	251	0.
1	0210	27	1.	1	0825	102	54.	1	1440	177	0.	1	2055	252	0.
1	0215	28	1.	1	0830	103	45.	1	1445	178	0.	1	2100	253	0.
1	0220	29	2.	1	0835	104	37.	1	1450	179	0.	1	2105	254	0.
1	0225	30	3.	1	0840	105	30.	1	1455	180	0.	1	2110	255	0.
1	0230	31	3.	1	0845	106	25.	1	1500	181	0.	1	2115	256	0.
1	0235	32	4.	1	0850	107	20.	1	1505	182	0.	1	2120	257	0.
1	0240	33	4.	1	0855	108	17.	1	1510	183	0.	1	2125	258	0.
1	0245	34	5.	1	0900	109	14.	1	1515	184	0.	1	2130	259	0.
1	0250	35	6.	1	0905	110	11.	1	1520	185	0.	1	2135	260	0.
1	0255	36	7.	1	0910	111	9.	1	1525	186	0.	1	2140	261	0.
1	0300	37	9.	1	0915	112	7.	1	1530	187	0.	1	2145	262	0.
1	0305	38	14.	1	0920	113	6.	1	1535	188	0.	1	2150	263	0.
1	0310	39	21.	1	0925	114	4.	1	1540	189	0.	1	2155	264	0.
1	0315	40	37.	1	0930	115	3.	1	1545	190	0.	1	2200	265	0.
1	0320	41	65.	1	0935	116	3.	1	1550	191	0.	1	2205	266	0.
1	0325	42	114.	1	0940	117	2.	1	1555	192	0.	1	2210	267	0.
1	0330	43	194.	1	0945	118	2.	1	1600	193	0.	1	2215	268	0.
1	0335	44	304.	1	0950	119	1.	1	1605	194	0.	1	2220	269	0.
1	0340	45	401.	1	0955	120	1.	1	1610	195	0.	1	2225	270	0.
1	0345	46	471.	1	1000	121	1.	1	1615	196	0.	1	2230	271	0.
1	0350	47	546.	1	1005	122	1.	1	1620	197	0.	1	2235	272	0.
1	0355	48	651.	1	1010	123	0.	1	1625	198	0.	1	2240	273	0.
1	0400	49	791.	1	1015	124	0.	1	1630	199	0.	1	2245	274	0.
1	0405	50	953.	1	1020	125	0.	1	1635	200	0.	1	2250	275	0.
1	0410	51	1135.	1	1025	126	0.	1	1640	201	0.	1	2255	276	0.
1	0415	52	1340.	1	1030	127	0.	1	1645	202	0.	1	2300	277	0.
1	0420	53	1572.	1	1035	128	0.	1	1650	203	0.	1	2305	278	0.
1	0425	54	1828.	1	1040	129	0.	1	1655	204	0.	1	2310	279	0.
1	0430	55	2108.	1	1045	130	0.	1	1700	205	0.	1	2315	280	0.
1	0435	56	2409.	1	1050	131	0.	1	1705	206	0.	1	2320	281	0.
1	0440	57	2713.	1	1055	132	0.	1	1710	207	0.	1	2325	282	0.
1	0445	58	2993.	1	1100	133	0.	1	1715	208	0.	1	2330	283	0.
1	0450	59	3234.	1	1105	134	0.	1	1720	209	0.	1	2335	284	0.
1	0455	60	3424.	1	1110	135	0.	1	1725	210	0.	1	2340	285	0.
1	0500	61	3545.	1	1115	136	0.	1	1730	211	0.	1	2345	286	0.
1	0505	62	3592.	1	1120	137	0.	1	1735	212	0.	1	2350	287	0.

1	0510	63	3581.	1	1125	138	0.	1	1740	213	0.	1	2355	288	0.
1	0515	64	3524.	1	1130	139	0.	1	1745	214	0.	2	0000	289	0.
1	0520	65	3434.	1	1135	140	0.	1	1750	215	0.	2	0005	290	0.
1	0525	66	3323.	1	1140	141	0.	1	1755	216	0.	2	0010	291	0.
1	0530	67	3204.	1	1145	142	0.	1	1800	217	0.	2	0015	292	0.
1	0535	68	3085.	1	1150	143	0.	1	1805	218	0.	2	0020	293	0.
1	0540	69	2972.	1	1155	144	0.	1	1810	219	0.	2	0025	294	0.
1	0545	70	2870.	1	1200	145	0.	1	1815	220	0.	2	0030	295	0.
1	0550	71	2779.	1	1205	146	0.	1	1820	221	0.	2	0035	296	0.
1	0555	72	2695.	1	1210	147	0.	1	1825	222	0.	2	0040	297	0.
1	0600	73	2609.	1	1215	148	0.	1	1830	223	0.	2	0045	298	0.
1	0605	74	2515.	1	1220	149	0.	1	1835	224	0.	2	0050	299	0.
1	0610	75	2406.	1	1225	150	0.	1	1840	225	0.	2	0055	300	0.

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	PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
				6-HR	24-HR	72-HR	24.92-HR
+	(CFS)	(HR)					
			(CFS)				
+	3592.	5.08		1313.	329.	317.	317.
			(INCHES)	.223	.223	.223	.223
			(AC-FT)	651.	652.	652.	652.

CUMULATIVE AREA = 54.73 SQ MI

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          *            *
227 KK    *     RRDB   *
          *            *
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240 KO OUTPUT CONTROL VARIABLES
IPRNT 1 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE

HYDROGRAPH ROUTING DATA

241 RS STORAGE ROUTING
NSTPS 1 NUMBER OF SUBREACHES
ITYP STOR TYPE OF INITIAL CONDITION
RSVRIC -1.00 INITIAL CONDITION
X .00 WORKING R AND D COEFFICIENT

242 SV	STORAGE	.0	9.0	107.0	231.0	372.0	529.0	705.0	903.0	1125.0	1376.0
		1659.0	1974.0	2007.0	2115.0	2331.0	2690.0	2933.0			
244 SQ	DISCHARGE	0.	10.	57.	80.	99.	114.	128.	140.	151.	162.
		171.	181.	182.	8654.	33270.	110918.	163477.			
246 SE	ELEVATION	3161.00	3162.00	3167.00	3172.00	3177.00	3182.00	3187.00	3192.00	3197.00	3202.00
		3207.00	3212.00	3212.50	3214.00	3217.00	3222.00	3225.00			

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HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .88

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DA MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000	1	0.	.0	3161.0	1	0820	101	124.	660.1	3185.7	1	1640	201	118.	579.0	3183.4
1	0005	2	0.	.0	3161.0	1	0825	102	124.	659.7	3185.7	1	1645	202	118.	578.2	3183.4
1	0010	3	0.	.0	3161.0	1	0830	103	124.	659.2	3185.7	1	1650	203	118.	577.4	3183.4
1	0015	4	0.	.0	3161.0	1	0835	104	124.	658.7	3185.7	1	1655	204	118.	576.6	3183.4
1	0020	5	0.	.0	3161.0	1	0840	105	124.	658.1	3185.7	1	1700	205	118.	575.8	3183.3
1	0025	6	0.	.0	3161.0	1	0845	106	124.	657.4	3185.6	1	1705	206	118.	574.9	3183.3
1	0030	7	0.	.0	3161.0	1	0850	107	124.	656.7	3185.6	1	1710	207	118.	574.1	3183.3
1	0035	8	0.	.0	3161.0	1	0855	108	124.	656.0	3185.6	1	1715	208	118.	573.3	3183.3
1	0040	9	0.	.0	3161.0	1	0900	109	124.	655.2	3185.6	1	1720	209	117.	572.5	3183.2
1	0045	10	0.	.0	3161.0	1	0905	110	124.	654.5	3185.6	1	1725	210	117.	571.7	3183.2
1	0050	11	0.	.0	3161.0	1	0910	111	124.	653.7	3185.5	1	1730	211	117.	570.9	3183.2
1	0055	12	0.	.0	3161.0	1	0915	112	124.	652.9	3185.5	1	1735	212	117.	570.1	3183.2
1	0100	13	0.	.0	3161.0	1	0920	113	124.	652.1	3185.5	1	1740	213	117.	569.3	3183.1
1	0105	14	0.	.0	3161.0	1	0925	114	124.	651.3	3185.5	1	1745	214	117.	568.5	3183.1
1	0110	15	0.	.0	3161.0	1	0930	115	124.	650.5	3185.5	1	1750	215	117.	567.7	3183.1
1	0115	16	0.	.0	3161.0	1	0935	116	124.	649.6	3185.4	1	1755	216	117.	566.9	3183.1
1	0120	17	0.	.0	3161.0	1	0940	117	124.	648.8	3185.4	1	1800	217	117.	566.1	3183.1
1	0125	18	0.	.0	3161.0	1	0945	118	123.	648.0	3185.4	1	1805	218	117.	565.3	3183.0
1	0130	19	0.	.0	3161.0	1	0950	119	123.	647.1	3185.4	1	1810	219	117.	564.4	3183.0
1	0135	20	0.	.0	3161.0	1	0955	120	123.	646.3	3185.3	1	1815	220	117.	563.6	3183.0
1	0140	21	0.	.0	3161.0	1	1000	121	123.	645.4	3185.3	1	1820	221	117.	562.8	3183.0
1	0145	22	0.	.0	3161.0	1	1005	122	123.	644.6	3185.3	1	1825	222	117.	562.0	3182.9
1	0150	23	0.	.0	3161.0	1	1010	123	123.	643.7	3185.3	1	1830	223	117.	561.2	3182.9

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DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE		DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE		DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0630	79		117.	564.3	3183.0	*	1	1450	179		118.	579.6	3183.4	*	1	2310	279		111.	500.6	3181.1
1	0635	80		118.	575.8	3183.3	*	1	1455	180		118.	578.8	3183.4	*	1	2315	280		111.	499.8	3181.1
1	0640	81		119.	586.1	3183.6	*	1	1500	181		118.	578.0	3183.4	*	1	2320	281		111.	499.0	3181.0
1	0645	82		119.	595.2	3183.9	*	1	1505	182		118.	577.2	3183.4	*	1	2325	282		111.	498.3	3181.0
1	0650	83		120.	603.2	3184.1	*	1	1510	183		118.	576.4	3183.3	*	1	2330	283		111.	497.5	3181.0
1	0655	84		120.	610.2	3184.3	*	1	1515	184		118.	575.6	3183.3	*	1	2335	284		111.	496.8	3181.0
1	0700	85		121.	616.2	3184.5	*	1	1520	185		118.	574.8	3183.3	*	1	2340	285		111.	496.0	3180.9
1	0705	86		121.	621.3	3184.6	*	1	1525	186		118.	573.9	3183.3	*	1	2345	286		111.	495.2	3180.9
1	0710	87		122.	625.7	3184.7	*	1	1530	187		118.	573.1	3183.3	*	1	2350	287		111.	494.5	3180.9
1	0715	88		122.	629.5	3184.9	*	1	1535	188		117.	572.3	3183.2	*	1	2355	288		111.	493.7	3180.9
1	0720	89		122.	632.6	3184.9	*	1	1540	189		117.	571.5	3183.2	*	2	0000	289		111.	492.9	3180.9
1	0725	90		122.	635.2	3185.0	*	1	1545	190		117.	570.7	3183.2	*	2	0005	290		110.	492.2	3180.8
1	0730	91		123.	637.3	3185.1	*	1	1550	191		117.	569.9	3183.2	*	2	0010	291		110.	491.4	3180.8
1	0735	92		123.	639.0	3185.1	*	1	1555	192		117.	569.1	3183.1	*	2	0015	292		110.	490.7	3180.8
1	0740	93		123.	640.3	3185.2	*	1	1600	193		117.	568.3	3183.1	*	2	0020	293		110.	489.9	3180.8
1	0745	94		123.	641.3	3185.2	*	1	1605	194		117.	567.5	3183.1	*	2	0025	294		110.	489.1	3180.7
1	0750	95		123.	642.0	3185.2	*	1	1610	195		117.	566.7	3183.1	*	2	0030	295		110.	488.4	3180.7
1	0755	96		123.	642.4	3185.2	*	1	1615	196		117.	565.9	3183.0	*	2	0035	296		110.	487.6	3180.7
1	0800	97		123.	642.7	3185.2	*	1	1620	197		117.	565.1	3183.0	*	2	0040	297		110.	486.9	3180.7
1	0805	98		123.	642.7	3185.2	*	1	1625	198		117.	564.3	3183.0	*	2	0045	298		110.	486.1	3180.6
1	0810	99		123.	642.6	3185.2	*	1	1630	199		117.	563.5	3183.0	*	2	0050	299		110.	485.4	3180.6
1	0815	100		123.	642.4	3185.2	*	1	1635	200		117.	562.6	3183.0	*	2	0055	300		110.	484.6	3180.6
							*								*							

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 123.	8.08	122.	98.	95.	95.
		(INCHES) .021	.067	.067	.067
		(AC-FT) 60.	195.	195.	195.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
643.	8.08	625.	466.	449.	449.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3185.23	8.08	3184.71	3179.27	3178.60	3178.60

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .86

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE		DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE		DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000	1		0.	.0	3161.0	*	1	0820	101		122.	627.7	3184.8	*	1	1640	201		116.	548.2	3182.5
1	0005	2		0.	.0	3161.0	*	1	0825	102		122.	627.3	3184.8	*	1	1645	202		115.	547.4	3182.5
1	0010	3		0.	.0	3161.0	*	1	0830	103		122.	626.8	3184.8	*	1	1650	203		115.	546.6	3182.5
1	0015	4		0.	.0	3161.0	*	1	0835	104		122.	626.2	3184.8	*	1	1655	204		115.	545.8	3182.5
1	0020	5		0.	.0	3161.0	*	1	0840	105		122.	625.6	3184.7	*	1	1700	205		115.	545.0	3182.5
1	0025	6		0.	.0	3161.0	*	1	0845	106		122.	625.0	3184.7	*	1	1705	206		115.	544.2	3182.4
1	0030	7		0.	.0	3161.0	*	1	0850	107		122.	624.3	3184.7	*	1	1710	207		115.	543.4	3182.4
1	0035	8		0.	.0	3161.0	*	1	0855	108		122.	623.6	3184.7	*	1	1715	208		115.	542.6	3182.4
1	0040	9		0.	.0	3161.0	*	1	0900	109		121.	622.8	3184.7	*	1	1720	209		115.	541.8	3182.4
1	0045	10		0.	.0	3161.0	*	1	0905	110		121.	622.1	3184.6	*	1	1725	210		115.	541.0	3182.3
1	0050	11		0.	.0	3161.0	*	1	0910	111		121.	621.3	3184.6	*	1	1730	211		115.	540.2	3182.3
1	0055	12		0.	.0	3161.0	*	1	0915	112		121.	620.5	3184.6	*	1	1735	212		115.	539.5	3182.3
1	0100	13		0.	.0	3161.0	*	1	0920	113		121.	619.8	3184.6	*	1	1740	213		115.	538.7	3182.3
1	0105	14		0.	.0	3161.0	*	1	0925	114		121.	619.0	3184.6	*	1	1745	214		115.	537.9	3182.3
1	0110	15		0.	.0	3161.0	*	1	0930	115		121.	618.2	3184.5	*	1	1750	215		115.	537.1	3182.2
1	0115	16		0.	.0	3161.0	*	1	0935	116		121.	617.3	3184.5	*	1	1755	216		115.	536.3	3182.2
1	0120	17		0.	.0	3161.0	*	1	0940	117		121.	616.5	3184.5	*	1	1800	217		115.	535.5	3182.2
1	0125	18		0.	.0	3161.0	*	1	0945	118		121.	615.7	3184.5	*	1	1805	218		114.	534.7	3182.2
1	0130	19		0.	.0	3161.0	*	1	0950	119		121.	614.9	3184.4	*	1	1810	219		114.	533.9	3182.1
1	0135	20		0.	.0	3161.0	*	1	0955	120		121.	614.1	3184.4	*	1	1815	220		114.	533.1	3182.1
1	0140	21		0.	.0	3161.0	*	1	1000	121		121.	613.2	3184.4	*	1	1820	221		114.	532.4	3182.1
1	0145	22		0.	.0	3161.0	*	1	1005	122		121.	612.4	3184.4	*	1	1825	222		114.	531.6	3182.1
1	0150	23		0.	.0	3161.0	*	1	1010	123		121.	611.6	3184.3	*	1	1830	223		114.	530.8	3182.1
1	0155	24		0.	.0	3161.0	*	1	1015	124		121.	610.7	3184.3	*	1	1835	224		114.	530.0	3182.0
1	0200	25		0.	.0	3161.0	*	1	1020	125		120.	609.9	3184.3	*	1	1840	225		114.	529.2	3182.0
1	0205	26		0.	.0	3161.0	*	1	1025	126		120.	609.1	3184.3	*	1	1845	226		114.	528.4	3182.0
1	0210	27		0.	.0	3161.0	*	1	1030	127		120.	608.3	3184.3	*	1	1850	227		114.	527.6	3182.0
1	0215	28		0.	.0	3161.0	*	1	1035	128		120.	607.4	3184.2	*	1	1855	228		114.	526.9	3181.9
1	0220	29		0.	.0	3161.0	*	1	1040	129		120.	606.6	3184.2	*	1	1900	229		114.	526.1	3181.9
1	0225	30		0.	.1	3161.0	*	1	1045	130		120.	605.8	3184.2	*	1	1905	230		114.	525.3	3181.9
1	0230	31		0.	.1	3161.0	*	1	1050	131		120.	605.0	3184.2	*	1	1910	231		114.	524.5	3181.9
1	0235	32		0.	.1	3161.0	*	1	1055	132		120.	604.1	3184.1	*	1	1915	232		113.	523.7	3181.8
1	0240	33		0.	.1	3161.0	*	1	1100	133		120.	603.3	3184.1	*	1	1920	233		113.	522.9	3181.8
1	0245	34		0.	.2	3161.0	*	1	1105	134		120.	602.5	3184.1	*	1	1925	234		113.	522.2	3181.8
1	0250	35		0.	.2	3161.0	*	1	1110	135		120.	601.7	3184.1	*	1	1930	235		113.	521.4	3181.8
1	0255	36		0.	.2	3161.0	*	1	1115	136		120.	600.8	3184.0	*	1	1935	236		113.	520.6	3181.7
1	0300	37		0.	.3	3161.0	*	1	1120	137		120.	600.0	3184.0	*	1	1940	237		113.	519.8	3181.7
1	0305	38		0.	.4	3161.0	*	1	1125	138		120.	599.2	3184.0	*	1	1945	238		113.	519.0	3181.7
1	0310	39		1.	.5	3161.1	*	1	1130	139		120.	598.4	3184.0	*	1	1950	239		113.	518.3	3181.7
1	0315	40		1.	.7	3161.1	*	1	1135	140		119.	597.5	3183.9	*	1	1955	240		113.	517.5	3181.6
1	0320	41		1.	1.1	3161.1	*	1	1140	141		119.	596.7	3183.9	*	1	2000	241		113.	516.7	3181.6
1	0325	42		2.	1.7	3161.2	*	1	1145	142		119.	595.9	3183.9	*	1	2005	242		113.	515.9	3181.6
1	0330	43		3.	2.8	3161.3	*	1	1150	143		119.	595.1	3183.9	*	1	2010	243		113.	515.2	3181.6
1	0335	44		5.	4.5	3161.5	*	1	1155	144		119.	594.2	3183.9	*	1	2015	244		113.	514.4	3181.5
1	0340	45		8.	7.0	3161.8	*	1	1200	145		119.	593.4	3183.8	*	1	2020	245		113.	513.6	3181.5
1	0345	46		10.	10.0	3162.1	*	1	1205	146		119.	592.6	3183.8	*	1	2025	246		112.	512.8	3181.5
1	0350	47		12.	13.5	3162.2	*	1	1210	147		119.	591.8	3183.8	*	1	2030	247		112.	512.1	3181.5
1	0355	48		14.	17.7	3162.4	*	1	1215	148		119.	591.0	3183.8	*	1	2035	248		112.	511.3	3181.4
1	0400	49		17.	22.7	3162.7	*	1	1220	149		119.	590.1	3183.7	*	1	2040	249		112.	510.5	3181.4
1	0405	50		19.	28.7	3163.0	*	1	1225	150		119.	589.3	3183.7	*	1	2045	250		112.	509.7	3181.4
1	0410	51		23.	36.0	3163.4	*	1	1230	151		119.	588.5	3183.7	*	1	2050	251		112.	509.0	3181.4
1	0415	52		27.	44.6	3163.8	*	1	1235	152		119.	587.7	3183.7	*	1	2055	252		112.	508.2	3181.3
1	0420	53		32.	54.7	3164.3	*	1	1240	153		119.	586.9	3183.6	*	1	2100	253		112.	507.4	3181.3
1	0425	54		38.	66.4	3164.9	*	1	1245	154		119.	586.1	3183.6	*	1	2105	254		112.	506.7	3181.3
1	0430	55		44.	80.0	3165.6	*	1	1250	155		118.	585.2	3183.6	*	1	2110	255		112.	505.9	3181.3
1	0435	56		52.	95.6	3166.4	*	1	1255	156		118.	584.4	3183.6	*	1	2115	256		112.	505.1	3181.2
1	0440	57		58.	113.3	3167.3	*	1	1300	157		118.	583.6	3183.6	*	1	2120	257		112.	504.3	3181.2
1	0445	58		62.	133.0	3168.0	*	1	1305	158		118.	582.8	3183.5	*	1	2125	258		112.	503.6	3181.2
1	0450	59		66.	154.5	3168.9	*	1	1310	159		118.	582.0	3183.5	*	1	2130	259		111.	502.8	3181.2
1	0455	60		70.	177.4	3169.8	*	1	1315	160		118.	581.2	3183.5	*	1	2135	260		111.	502.0	3181.1
1	0500	61		75.	201.4	3170.8	*	1	1320	161		118.	580.4	3183.5	*	1	2140	261		111.	501.3	3181.1
1	0505	62		79.	226.0	3171.8	*	1	1325	162		118.	579.5	3183.4	*	1	2145	262		111.	500.5	3181.1
1	0510	63		83.	250.6	3172.7	*	1	1330	163		118.	578.7	3183.4	*	1	2150	263		111.	499.7	3181.1
1	0515	64		86.	275.0	3173.6	*	1	1335	164		118.	577.9	3183.4	*	1	2155	264		111.	499.0	3181.0
1	0520	65		89.	298.8	3174.4	*	1	1340	165		118.	577.1	3183.4	*	1	2200	265		111.	498.2	3181.0
1	0525	66		92.	321.9	3175.2	*	1	1345	166		118.	576.3	3183.3	*	1	2205	266		111.	497.4	3181.0
1	0530	67		95.	344.2	3176.0	*	1	1350	167		118.	575.5	3183.3	*	1	2210	267		111.	496.7	3181.0
1	0535	68		98.	365.6	3176.8	*	1	1355	168		118.	574.7	3183.3	*	1	2215	268		111.	495.9	3180.9
1	0540	69		100.	386.1	3177.4	*	1	1400	169		118.	573.9	3183.3	*	1	2220	269		111.	495.2	3180.9
1	0545	70		102.	405.9	3178.1	*	1	1405	170		118.	573.1	3183.3	*	1	2225	270		111.	494.4	3180.9
1	0550	71		104.	425.0	3178.7	*	1	1410	171		117.	572.2	3183.2	*	1	2230	271		111.	493.6	3180.9
1	0555	72		106.	443.4	3179.3	*	1	1415	172		117.	571.4	3183.2	*	1	2235	272		111.	492.9	3180.8
1	0600	73		108.	461.3	3179.8	*	1	1420	173		117.	570.6	3183.2	*	1	2240	273		110.	492.1	3180.8
1	0605	74		109.	478.4	3180.4	*	1	1425	174		117.	569.8	3183.2	*	1	2245	274		110.	491.3	3180.8
1	0610	75		111.	494.9	3180.9	*	1	1430	175		117.	569.0	3183.1	*	1	2250	275		110.	490.6	3180.8
1	0615	76		112.	510.5	3181.4	*	1	1435	176		117.	568.2	3183.1	*	1	2255	276		110.	489.8	3180.8
1	0620	77		114.	525.2	3181.9	*	1	1440	177		117.	567.4	3183.1	*	1	2300	277		110.	489.1	3180.7
1	0625	78		115.	538.9	3182.3	*	1	1445	178		117.	566.6	3183.1	*	1	2305	278		110.	488.3	3180.7
1	0630	79		116.	551.4	3182.6	*	1	1450	179		117.	565.8	3183.0	*	1	2310	279		110.	487.5	3180.7
1	0635	80		117.	562.7	3183.0	*	1	1455	180		117.	565.0	3183.0	*	1	2315	280		110.	486.8	3180.7
1	0640	81		117.	572.8	3183.2	*	1	1500	181		117.	564.2	3183.0	*	1	2320	281		110.	486.0	3180.6
1	0645	82		118.	581.7	3183.5	*	1	1505	182		117.	563.4	3183.0	*	1	2325	282		110.	485.3	3180.6
1	0650	83		119.	589.6	3183.7	*	1	1510	183		117.	562.6	3183.0	*	1	2330	283		110.	484.5	3180.6
1	0655	84		119.	596.4	3183.9	*	1	1515	184		117.	561.8	3182.9	*	1	2335	284		110.	483.8	3180.6
1	0700	85		120.	602.3	3184.1	*	1	1520	185		117.	561.0	3182.9	*	1	2340	285		110.	483.0	3180.5
1	0705	86		120.	607.4	3184.2	*	1	1525	186		116.	560.2	3182.9	*	1	2345	286		110.	482.3	3180.5
1	0710	87		121.	611.7	3184.3	*	1	1530	187		116.	559.4	3182.9	*	1	2350	287		109.	481.5	3180.5
1	0715	88		121.	615.4	3184.5	*	1	1535	188		116.	558.6	3182.8	*	1	2355	288		109.	480.7	3180.5
1	0720	89		121.	618.4	3184.5	*	1	1540	189		116.	557.8	3182.8	*	2	0000	289		109.	480.0	3180.4
1	0725	90		121.	621.0	3184.6	*	1	1545	190		116.	557.0	3182.8	*	2	0005	290		109.	479.2	3180.4
1	0730	91		121.	623.0	3184.7	*	1	1550	191		116.	556.2	3182.8	*	2	0010	291		109.	478.5	3180.4
1	0735	92		122.	624.7	3184.7	*	1	1555	192		116.	555.4	3182.7	*	2	0015	292		109.	477.7	3180.4
1	0740	93		122.	626.0	3184.8	*	1	1600	193		116.	554.6	3182.7	*	2	0020	293		109.	477.0	3180.3
1	0745	94		122.	626.9	3184.8	*	1	1605	194		116.	553.8	3182.7	*	2	0025	294		109.	476.2	3180.3
1	0750	95		122.	627.6	3184.8	*	1	1610	195		116.	553.0	3182.7	*	2	0030	295		109.	475.5	3180.3
1	0755	96		122.	628.0	3184.8	*	1	1615	196		116.	552.2	3182.7	*	2	0035	296		109.	474.7	3180.3
1	0800	97		122.	628.3	3184.8	*	1	1620	197		116.	551.4	3182.6	*	2	0040	297		109.	474.0	3180.2
1	0805	98		122.	628.3	3184.8	*	1	1625	198		116.	550.6	3182.6	*	2	0045	298		109.	473.2	3180.2
1	0810	99		122.	628.2	3184.8	*	1	1630	199		116.	549.8	3182.6	*	2	0050	299		109.	472.5	3180.2
1	0815	100		122.	628.0	3184.8	*	1	1635	200		116.	549.0	3182.6	*	2	0055	300		109.	471.7	3180.2
							*								*							

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 122.	8.08	120.	97.	94.	94.
		(INCHES) .020	.066	.066	.066
		(AC-FT) 60.	193.	193.	193.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
628.	8.08	610.	455.	438.	438.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3184.82	8.08	3184.31	3178.94	3178.28	3178.28

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .85

| | | |

				TIME	4.25	4.25	4.25	4.25
ROUTED TO								
+	R-RR12A	5.82	1	FLOW	453.	440.	430.	421.
				TIME	4.50	4.50	4.50	4.50
HYDROGRAPH AT								
+	104A	3.39	1	FLOW	59.	57.	55.	53.
				TIME	5.33	5.33	5.33	5.33
3 COMBINED AT								
+	C104A	47.87	1	FLOW	3437.	3342.	3266.	3201.
				TIME	5.17	5.17	5.17	5.17
HYDROGRAPH AT								
+	RD1	.43	1	FLOW	56.	54.	53.	52.
				TIME	3.67	3.67	3.67	3.67
ROUTED TO								
+	R-RD1	.43	1	FLOW	55.	53.	53.	51.
				TIME	3.75	3.75	3.75	3.75
HYDROGRAPH AT								
+	RD2	.47	1	FLOW	113.	110.	108.	107.
				TIME	3.58	3.58	3.58	3.58
2 COMBINED AT								
+	CRD2	.90	1	FLOW	154.	150.	147.	144.
				TIME	3.67	3.67	3.67	3.67
ROUTED TO								
+	RCRD2	.90	1	FLOW	151.	146.	141.	142.
				TIME	3.67	3.67	3.67	3.67
HYDROGRAPH AT								
+	RD3	.33	1	FLOW	68.	66.	65.	64.
				TIME	3.58	3.58	3.58	3.58
2 COMBINED AT								
+	CRD3	1.23	1	FLOW	212.	206.	200.	199.
				TIME	3.67	3.67	3.67	3.67
HYDROGRAPH AT								
+	RR14A	4.60	1	FLOW	431.	419.	410.	402.
				TIME	4.25	4.25	4.25	4.25
ROUTED TO								
+	R-RR14A	4.60	1	FLOW	428.	416.	407.	399.
				TIME	4.25	4.25	4.25	4.33
HYDROGRAPH AT								
+	RD4	.40	1	FLOW	43.	41.	40.	39.
				TIME	3.58	3.58	3.58	3.58
2 COMBINED AT								
+	CRD4	5.00	1	FLOW	439.	426.	417.	408.
				TIME	4.25	4.25	4.25	4.25
ROUTED TO								
+	RCRD4	5.00	1	FLOW	438.	426.	416.	408.
				TIME	4.33	4.33	4.33	4.33
HYDROGRAPH AT								
+	RD5	.37	1	FLOW	45.	43.	42.	41.
				TIME	3.58	3.58	3.58	3.58
2 COMBINED AT								
+	CRD5	5.37	1	FLOW	447.	434.	424.	417.
				TIME	4.33	4.33	4.33	4.33
ROUTED TO								
+	RCRD5	5.37	1	FLOW	444.	433.	422.	415.
				TIME	4.33	4.42	4.33	4.42
HYDROGRAPH AT								
+	RD6	.25	1	FLOW	50.	49.	48.	47.
				TIME	3.58	3.58	3.58	3.58
2 COMBINED AT								
+	CRD6	5.62	1	FLOW	452.	441.	430.	423.
				TIME	4.33	4.42	4.33	4.42
3 COMBINED AT								
+	INRR	54.73	1	FLOW	3857.	3750.	3666.	3592.
				TIME	5.08	5.08	5.08	5.08
ROUTED TO								
+	RRDB	54.73	1	FLOW	124.	123.	122.	121.
				TIME	8.08	8.08	8.08	8.08

** PEAK STAGES IN FEET **

1	STAGE	3185.74	3185.23	3184.82	3184.47
	TIME	8.08	8.08	8.08	8.08

DIVERSION TO								
+	*D-RROUT	54.73	1	FLOW	0.	0.	0.	0.
				TIME	.00	.00	.00	.00
HYDROGRAPH AT								
+	*DOUTRR	54.73	1	FLOW	124.	123.	122.	121.
				TIME	8.08	8.08	8.08	8.08
ROUTED TO								
+	ROUTRR	54.73	1	FLOW	124.	123.	122.	121.
				TIME	8.17	8.17	8.17	8.17
HYDROGRAPH AT								
+	R3A	.19	1	FLOW	17.	16.	15.	15.
				TIME	3.58	3.58	3.58	3.58
2 COMBINED AT								
+	CR3A	54.92	1	FLOW	124.	123.	122.	121.
				TIME	8.17	8.17	8.17	8.17
ROUTED TO								
+	RCR3A	54.92	1	FLOW	124.	123.	122.	121.
				TIME	8.25	8.25	8.25	8.25

1

*** NORMAL END OF HEC-1 ***

B.3.3 2-year_FLAM5A

```
1****************************************
 *                                      *
 *   FLOOD HYDROGRAPH PACKAGE  (HEC-1)  *
 *              JUN   1998              *
 *           VERSION 4.1                *
 *                                      *
 *  RUN DATE   20MAY20  TIME  09:36:32  *
 *                                      *
 ****************************************
```

```
****************************************
*                                      *
*    U.S. ARMY CORPS OF ENGINEERS      *
*    HYDROLOGIC ENGINEERING CENTER     *
*         609 SECOND STREET            *
*       DAVIS, CALIFORNIA 95616        *
*           (916) 756-1104             *
*                                      *
****************************************
```

```
X     X  XXXXXXX   XXXXX           X
X     X  X        X     X         XX
X     X  X        X               X
XXXXXXX  XXXX     X        XXXXX  X
X     X  X        X               X
X     X  X        X     X         X
X     X  XXXXXXX   XXXXX          XXX
```

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL   LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM


```
          LINE      ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

                    *DIAGRAM
 *** FREE ***
               1    ID   RED ROCK TRAIL TO FY19-87
               2    ID   US FEDERAL HIGHWAY ADMINISTRATION
               3    ID   PN WXXY4000
               4    ID
               5    ID   HEC-1 MODEL TAKEN FROM CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT (CCRFCD)
               6    ID   2018 MASTER PLAN UPDATE
               7    ID   FLAMINGO / TROPICANA WASHES WATERSHED
               8    ID   RECOMMENDED DRAINAGE SYSTEM WITH ULTIMATE DEVELOPMENT
               9    ID   INPUT FILE = FLAM5A.DAT
              10    ID   INPUT FILE DATE = MAY 2020
              11    ID   PRECIPITATION VALUES TAKEN FROM NOAA ATLAS 2 &
              12    ID   ADJUSTED PER CCRFCD HYDRAULIC CRITERIA & DRAINAGE DESIGN MANUAL TABLE 501
              13    ID   DESIGN STORM = 2-YEAR, 6-HOUR STORM
              14    ID   STORM DISTRIBUTION = SDN5
              15    ID   STORM CENTERING = SERIES A: REGIONAL DETENTION BASIN FLOWS NOT DIVERTED OUT
              16    ID   MODELED BY JACOBS (DAVE BERGH, PE)
              17    ID
              18    ID   JR CARDS CONTAIN DARFS BASED ON THE FOLLOWING VALUES:
              19    ID
              20    ID         AREA    DARF
              21    ID         SQ.MI.
              22    ID                 SDN 3   SDN 4   SDN 5
              23    ID         0 - 0.5 0.990
              24    ID         0.5 - 1 0.975
              25    ID         1 - 2   0.950
              26    ID         2 - 3   0.925
              27    ID         3 - 4   0.915
              28    ID         4 - 5   0.908
              29    ID         5 - 6   0.903
              30    ID         6 - 7   0.895
              31    ID         7 - 8   0.885
              32    ID         8 - 9           0.875
              33    ID         9 - 10          0.865
              34    ID         10 - 11         0.857
              35    ID         11 - 12         0.850
              36    ID         12 - 16                 0.832
              37    ID         16 - 20                 0.804
              38    ID         20 - 30                 0.765
              39    ID         30 - 40                 0.725
              40    ID         40 - 50                 0.695
              41    ID         50 - 100                0.640
              42    ID         100 - 150               0.580
              43    ID         150 - 200               0.530
              44    ID
              45    IT      5       0       0     300
              46    IO      5       0       0
              47    IN      5       0       0
              48    JR    PREC   0.832   0.804   0.765   0.725   0.695    0.64    0.58    0.53
                    *
```



```
          LINE      ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

              49    KK     RR1
              50    BA   4.225
              51    PB    1.34
              52    PC       0    0.02   0.059    0.08    0.11   0.144    0.15    0.16   0.168   0.171
              53    PC    0.18   0.182   0.187    0.19   0.197   0.202    0.21    0.22    0.23   0.241
              54    PC    0.25   0.259   0.265    0.28    0.29     0.3   0.305   0.309    0.31   0.317
              55    PC   0.321   0.327   0.333   0.346   0.361   0.381   0.408    0.43   0.477   0.514
              56    PC   0.561    0.63    0.71    0.72   0.731   0.752   0.779    0.79   0.795   0.804
              57    PC    0.81    0.82   0.826    0.84   0.859   0.889    0.91   0.938   0.966    0.97
              58    PC   0.974   0.979   0.981   0.983   0.985   0.989    0.99   0.992   0.993   0.996
              59    PC   0.997   0.999       1
              60    LS       0    85.8
              61    UD   0.443
                    *
              62    KK     RR2
              63    BA   3.547
              64    PB    1.34
              65    LS       0    86.2
              66    UD   0.545
                    *
              67    KK    RRR2
              68    KM   MUSKINGUM ROUTING UNSTABLE - USED MUSKINGUM-CUNGE
              69    KM   NATURAL WASH
              70    RD    1700   0.076    0.04       0    TRAP     100       2
                    *
              71    KK    CRR2
              72    KM   COMBINE RR1 AND RRR2
              73    HC       2
                    *
              74    KK   RCRR2
              75    KM   ROUTE CRR2 TO CRR3
              76    KM   NATURAL WASH
              77    KM   TRAVEL LENGTH = 15850
              78    KM   SLOPE = 0.043
              79    KM   N = 0.04
              80    KM   HYDRAULIC RADIUS = 1.5
              81    KM   VELOCITY = 16.2
              82    RM       3   0.272    0.15
                    *
              83    KK     RR5
              84    BA   7.132
              85    PB    1.25
              86    LS       0    87.9
              87    UD   0.615
                    *
```



```
          LINE      ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

              88    KK   R-RR5
              89    KM   ROUTE RR5 THROUGH RR3 TO CRR3
              90    KM   NATURAL WASH
              91    KM   TRAVEL LENGTH = 10700
              92    KM   SLOPE = 0.037
              93    KM   N = 0.04
              94    KM   HYDRAULIC RADIUS = 1.5
              95    KM   VELOCITY = 15
              96    RM       2   0.198    0.15
                    *
              97    KK     RR3
              98    BA  14.983
              99    PB    1.20
             100    LS       0      87
             101    UD   0.761
                    *
             102    KK    CRR3
             103    KM   COMBINE RCRR2, R-RR5, AND RR3
             104    HC       3
                    *
             105    KK   RCRR3
             106    KM   ROUTE CRR3 THROUGH RR10 TO CRR10
             107    KM   NATURAL WASH
             108    KM   TRAVEL LENGTH = 20700
             109    KM   SLOPE = 0.025
             110    KM   N = 0.04
             111    KM   HYDRAULIC RADIUS = 1.5
             112    KM   VELOCITY = 12.3
             113    RM       6   0.466    0.15
                    *
             114    KK    RR10
             115    BA   8.775
             116    PB    1.08
             117    LS       0    86.1
             118    UD   0.882
```

```
                 *

 119             KK   CRR10
 120             KM   COMBINE RCRR3 AND RR10
 121             HC       2
                 *

 122             KK  RCRR10
 123             KM   ROUTE CRR10 THROUGH 104A TO C104A (RED ROCK DETENTION BASIN)
 124             KM   NATURAL WASH
 125             KM   TRAVEL LENGTH = 14500
 126             KM   SLOPE = 0.021
 127             KM   N = 0.04
 128             KM   HYDRAULIC RADIUS = 1.5
 129             KM   VELOCITY = 11.3
1                                    HEC-1 INPUT                                    PAGE  4

LINE             ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 130             RM       4   0.356    0.15
                 *

 131             KK   RR12A
 132             BA   5.821
 133             PB    1.14
 134             LS       0    87.6
 135             UD   0.728
                 *

 136             KK R-RR12A
 137             KM   ROUTE RR12A THROUGH 104A TO C104A (RED ROCK DETENTION BASIN)
 138             KM   NATURAL WASH
 139             KM   TRAVEL LENGTH = 12000
 140             KM   SLOPE = 0.026
 141             KM   N = 0.04
 142             KM   HYDRAULIC RADIUS = 1.5
 143             KM   VELOCITY = 12.6
 144             RM       3   0.265    0.15
                 *

 145             KK    104A
 146             BA   3.391
 147             PB    0.96
 148             LS       0    81.3
 149             UD   0.801
                 *

 150             KK   C104A
 151             KM   COMBINE RCRR10, R-RR12A, AND 104A
 152             HC       3
                 *

 153             KK     RD1
 154             BA   0.431
 155             PB    1.12
 156             LS       0    86.6
 157             UD   0.195
                 *

 158             KK   R-RD1
 159             KM   ROUTE RD1 THROUGH RD2 TO CRD2
 160             KM   FUTURE CONCRETE CHANNEL
 161             RD    5100   0.061   0.015       0    TRAP      12       2
                 *

 162             KK     RD2
 163             BA   0.473
 164             PB    1.08
 165             LS       0    91.2
 166             UD   0.167
                 *
1                                    HEC-1 INPUT                                    PAGE  5

LINE             ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 167             KK    CRD2
 168             KM   COMBINE R-RD1 AND RD2
 169             HC       2
                 *

 170             KK   RCRD2
 171             KM   ROUTE CRD2 TO CRD3 (RED ROCK DETENTION BASIN)
 172             KM   FUTURE CONCRETE CHANNEL
 173             RD    4600    0.05   0.015       0    TRAP      12       2
                 *

 174             KK     RD3
 175             BA    0.33
 176             PB    1.06
 177             LS       0    90.3
 178             UD   0.168
                 *

 179             KK    CRD3
 180             KM   COMBINE RCRD2 AND RD3
 181             HC       2
                 *

 182             KK   RR14A
 183             BA   4.602
 184             PB    1.23
 185             LS       0    87.3
 186             UD   0.725
                 *

 187             KK R-RR14A
 188             KM   ROUTE RR14A THROUGH RD4 TO CRD4
 189             KM   FUTURE CONCRETE CHANNEL
 190             RD    5500   0.071   0.015       0    TRAP      12       2
                 *

 191             KK     RD4
 192             BA   0.402
 193             PB    1.12
 194             LS       0    85.1
 195             UD   0.177
                 *

 196             KK    CRD4
 197             KM   COMBINE R-RR14A AND RD4
 198             HC       2
                 *

 199             KK   RCRD4
 200             KM   ROUTE CRD4 THROUGH RD5 TO CRD5
 201             KM   FUTURE CONCRETE CHANNEL
 202             RD    4550   0.067   0.015       0    TRAP      20       2
                 *
1                                    HEC-1 INPUT                                    PAGE  6

LINE             ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 203             KK     RD5
 204             BA    0.37
 205             PB    1.08
 206             LS       0    86.2
 207             UD   0.163
                 *

 208             KK    CRD5
 209             KM   COMBINE RCRD4 AND RD5
 210             HC       2
                 *

 211             KK   RCRD5
 212             KM   ROUTE CRD5 THROUGH RD6 TO CRD6 (RED ROCK DETENTION BASIN)
 213             KM   FUTURE CONCRETE CHANNEL
 214             RD    5600   0.047   0.015       0    TRAP      20       2
                 *

 215             KK     RD6
 216             BA    0.25
 217             PB    1.06
 218             LS       0      90
 219             UD    0.16
                 *

 220             KK    CRD6
 221             KM   COMBINE RCRD5 AND RD6
 222             HC       2
                 *

 223             KK    INRR
 224             KM   COMBINE C104A, CRD3, AND CRD6 - TOTAL INFLOW TO RED ROCK DETENTION BASIN
 225             KO       1
 226             HC       3
                 * ============================================================

 227             KK    RRDB
 228             KM   RED ROCK DETENTION BASIN
 229             KM   TAKEN FROM THE CORP MODELS FOR RED ROCK DETENTION BASIN
 230             KM   100YR COMPUTED PROBABILITY DETENTION DESIGN
 231             KM   FACILITY ID-MILE = RRWA 0716
 232             KM   STORAGE VOLUME = 2007 ACRE-FEET
 233             KM   OUTLET = 27"H x 27"W RCB ORIFICE
 234             KM   100-YR DISCHARGE = 182 CFS
 235             KM   SPILLWAY LENGTH = 600 FT
 236             KM   AUXILLARY OGEE SPILLWAY LENGTH = 323 FT
 237             KM   SPILLWAY CREST ELEVATION = 3212.5 FT NGVD
 238             KM   PMF DISCHARGE = 110000 CFS
 239             KM   TOP OF DAM ELEVATION = 3225 FT NGVD
 240             KO       1
 241             RS       1    STOR      -1
 242             SV       0       9     107     231     372     529     705     903    1125    1376
 243             SV    1659    1974    2007    2115    2331    2690    2933
 244             SQ       0      10      57      80      99     114     128     140     151     162
```

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  LINE          ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

  245           SQ     171     181     182    8654   33270  110918  163477
  246           SE    3161    3162    3167    3172    3177    3182    3187    3192    3197    3202
  247           SE    3207    3212  3212.5    3214    3217    3222    3225
                * ========================================================

  248           KK *DOUTRR
  249           KM   DIVERT SPILLWAY OVERFLOW IN EXCESS OF CORPS DESIGN OUTFLOW
  250           DT*D-RROUT
  251           DI       0     182    3000    5000   10000
  252           DQ       0       0    2818    4818    9818
                *

  253           KK  ROUTRR
  254           KM   ROUTE OUTFLOW FROM RED ROCK DETENTION BASIN THROUGH R3A TO CR3A
  255           KM   FACILITY = RED ROCK CHANNEL
  256           KM   FACILITY # = RRWA 0714, 0709, 0701
  257           KM   LINING = RCP
  258           KM   LINING = RIPRAP CHNL 10'W X 6'D; 2:1SS
  259           RD    1500   0.008    0.04       0    TRAP      10       2
                *

  260           KK     R3A
  261           BA   0.186
  262           PB    1.04
  263           LS       0    84.3
  264           UD    0.11
                *

  265           KK    CR3A
  266           KM   COMBINE OUTFLOW FROM RED ROCK DETENTION BASIN WITH R3A
  267           HC       2
                *

  268           KK   RCR3A
  269           KM   ROUTE CR3A THROUGH UFR1 TO CUFR1
  270           KM   FACILITY = RED ROCK CHANNEL
  271           KM   FACILITY # = RRWA 0695, 0692, 0608, 0607
  272           KM   LINING = RCP
  273           RD    5045  0.0055   0.013       0    CIRC       8       0
                *

  274           ZZ
```

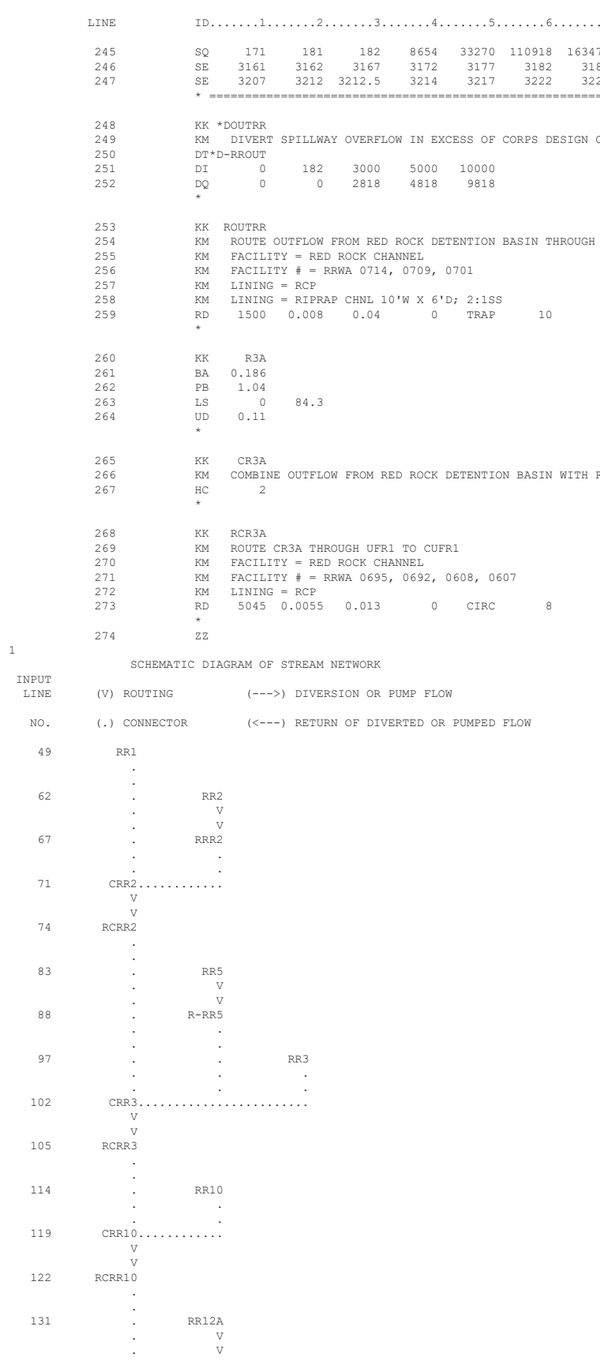
1

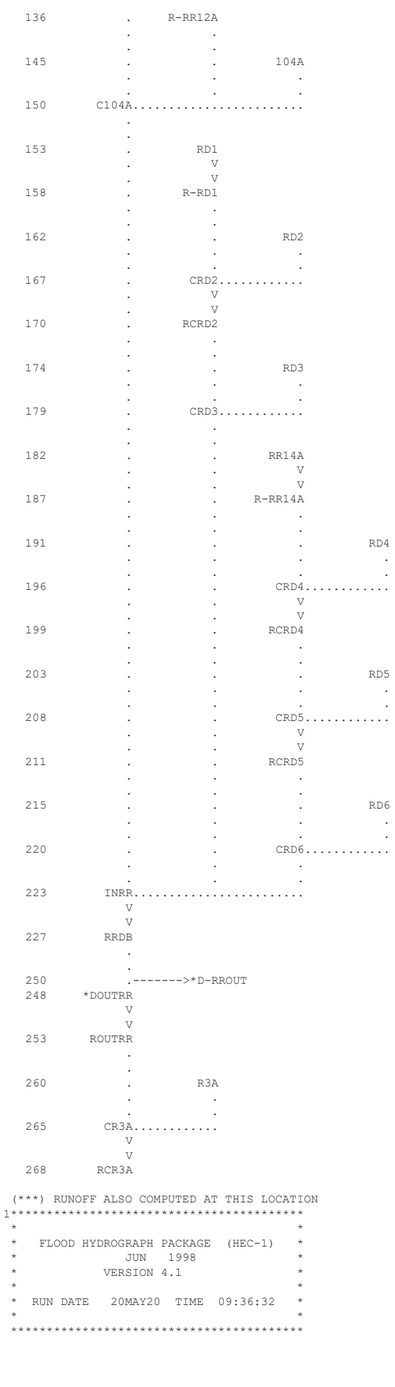
SCHEMATIC DIAGRAM OF STREAM NETWORK

INPUT

LINE (V) ROUTING (---->) DIVERSION OR PUMP FLOW

NO. (.) CONNECTOR (<---) RETURN OF DIVERTED OR PUMPED FLOW





(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

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1*****************************************
 *                                       *
 *   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
 *             JUN   1998                *
 *          VERSION 4.1                  *
 *                                       *
 *  RUN DATE   20MAY20  TIME  09:36:32   *
 *                                       *
 *****************************************
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*************************************
*                                   *
*    U.S. ARMY CORPS OF ENGINEERS   *
*    HYDROLOGIC ENGINEERING CENTER  *
*         609 SECOND STREET         *
*       DAVIS, CALIFORNIA 95616     *
*           (916) 756-1104          *
*                                   *
*************************************
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RED ROCK TRAIL TO FY19-87
US FEDERAL HIGHWAY ADMINISTRATION
PN WXXY4000

HEC-1 MODEL TAKEN FROM CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT (CCRFCD)
2018 MASTER PLAN UPDATE
FLAMINGO / TROPICANA WASHES WATERSHED
RECOMMENDED DRAINAGE SYSTEM WITH ULTIMATE DEVELOPMENT
INPUT FILE = FLAM5A.DAT
INPUT FILE DATE = MAY 2020
PRECIPITATION VALUES TAKEN FROM NOAA ATLAS 2 &
ADJUSTED PER CCRFCD HYDRAULIC CRITERIA & DRAINAGE DESIGN MANUAL TABLE 501
DESIGN STORM = 2-YEAR, 6-HOUR STORM
STORM DISTRIBUTION = SDN5
STORM CENTERING = SERIES A: REGIONAL DETENTION BASIN FLOWS NOT DIVERTED OUT
MODELED BY JACOBS (DAVE BERGH, PE)

JR CARDS CONTAIN DARFS BASED ON THE FOLLOWING VALUES:

AREA SQ.MI.	DARF SDN 3	SDN 4	SDN 5
0 - 0.5	0.990		
0.5 - 1	0.975		
1 - 2	0.950		
2 - 3	0.925		
3 - 4	0.915		
4 - 5	0.908		
5 - 6	0.903		
6 - 7	0.895		
7 - 8	0.885		
8 - 9		0.875	
9 - 10		0.865	
10 - 11		0.857	
11 - 12		0.850	
12 - 16			0.832
16 - 20			0.804
20 - 30			0.765
30 - 40			0.725
40 - 50			0.695
50 - 100			0.640
100 - 150			0.580
150 - 200			0.530

```
 46 IO         OUTPUT CONTROL VARIABLES
                     IPRNT          5  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL         0.  HYDROGRAPH PLOT SCALE

    IT         HYDROGRAPH TIME DATA
                      NMIN          5  MINUTES IN COMPUTATION INTERVAL
                     IDATE      1    0  STARTING DATE
                     ITIME       0000  STARTING TIME
                        NQ        300  NUMBER OF HYDROGRAPH ORDINATES
                    NDDATE      2    0  ENDING DATE
                    NDTIME       0055  ENDING TIME
                     ICENT         19  CENTURY MARK

                 COMPUTATION INTERVAL     .08 HOURS
                      TOTAL TIME BASE   24.92 HOURS

        ENGLISH UNITS
             DRAINAGE AREA         SQUARE MILES
             PRECIPITATION DEPTH   INCHES
             LENGTH, ELEVATION     FEET
             FLOW                  CUBIC FEET PER SECOND
             STORAGE VOLUME        ACRE-FEET
             SURFACE AREA          ACRES
             TEMPERATURE           DEGREES FAHRENHEIT

    JP         MULTI-PLAN OPTION
                     NPLAN          1  NUMBER OF PLANS

    JR         MULTI-RATIO OPTION
                   RATIOS OF PRECIPITATION
                     .83      .80      .76      .73      .69      .64      .58      .53


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


            *************
            *           *
 223 KK     *      INRR *
            *           *
            *************

 225 KO        OUTPUT CONTROL VARIABLES
                     IPRNT          1  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL         0.  HYDROGRAPH PLOT SCALE

 226 HC        HYDROGRAPH COMBINATION
                     ICOMP          3  NUMBER OF HYDROGRAPHS TO COMBINE
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HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .83

****

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	2363.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	2235.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	2085.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	1920.	1		1245	154	0.	1		1900	229	0.
1		0020	5	0.	1		0635	80	1747.	1		1250	155	0.	1		1905	230	0.
1		0025	6	0.	1		0640	81	1572.	1		1255	156	0.	1		1910	231	0.
1		0030	7	0.	1		0645	82	1403.	1		1300	157	0.	1		1915	232	0.
1		0035	8	0.	1		0650	83	1243.	1		1305	158	0.	1		1920	233	0.
1		0040	9	0.	1		0655	84	1097.	1		1310	159	0.	1		1925	234	0.
1		0045	10	0.	1		0700	85	965.	1		1315	160	0.	1		1930	235	0.
1		0050	11	0.	1		0705	86	847.	1		1320	161	0.	1		1935	236	0.
1		0055	12	0.	1		0710	87	741.	1		1325	162	0.	1		1940	237	0.
1		0100	13	0.	1		0715	88	647.	1		1330	163	0.	1		1945	238	0.
1		0105	14	0.	1		0720	89	563.	1		1335	164	0.	1		1950	239	0.
1		0110	15	0.	1		0725	90	488.	1		1340	165	0.	1		1955	240	0.
1		0115	16	0.	1		0730	91	421.	1		1345	166	0.	1		2000	241	0.
1		0120	17	0.	1		0735	92	361.	1		1350	167	0.	1		2005	242	0.
1		0125	18	0.	1		0740	93	308.	1		1355	168	0.	1		2010	243	0.
1		0130	19	0.	1		0745	94	261.	1		1400	169	0.	1		2015	244	0.
1		0135	20	0.	1		0750	95	220.	1		1405	170	0.	1		2020	245	0.
1		0140	21	0.	1		0755	96	185.	1		1410	171	0.	1		2025	246	0.
1		0145	22	0.	1		0800	97	154.	1		1415	172	0.	1		2030	247	0.
1		0150	23	1.	1		0805	98	129.	1		1420	173	0.	1		2035	248	0.
1		0155	24	2.	1		0810	99	107.	1		1425	174	0.	1		2040	249	0.
1		0200	25	3.	1		0815	100	89.	1		1430	175	0.	1		2045	250	0.
1		0205	26	4.	1		0820	101	74.	1		1435	176	0.	1		2050	251	0.
1		0210	27	5.	1		0825	102	61.	1		1440	177	0.	1		2055	252	0.
1		0215	28	5.	1		0830	103	50.	1		1445	178	0.	1		2100	253	0.
1		0220	29	5.	1		0835	104	42.	1		1450	179	0.	1		2105	254	0.
1		0225	30	5.	1		0840	105	34.	1		1455	180	0.	1		2110	255	0.
1		0230	31	4.	1		0845	106	28.	1		1500	181	0.	1		2115	256	0.
1		0235	32	4.	1		0850	107	23.	1		1505	182	0.	1		2120	257	0.
1		0240	33	5.	1		0855	108	19.	1		1510	183	0.	1		2125	258	0.
1		0245	34	6.	1		0900	109	15.	1		1515	184	0.	1		2130	259	0.
1		0250	35	9.	1		0905	110	13.	1		1520	185	0.	1		2135	260	0.
1		0255	36	13.	1		0910	111	10.	1		1525	186	0.	1		2140	261	0.
1		0300	37	19.	1		0915	112	8.	1		1530	187	0.	1		2145	262	0.
1		0305	38	29.	1		0920	113	6.	1		1535	188	0.	1		2150	263	0.
1		0310	39	43.	1		0925	114	5.	1		1540	189	0.	1		2155	264	0.
1		0315	40	66.	1		0930	115	4.	1		1545	190	0.	1		2200	265	0.
1		0320	41	97.	1		0935	116	3.	1		1550	191	0.	1		2205	266	0.
1		0325	42	143.	1		0940	117	2.	1		1555	192	0.	1		2210	267	0.
1		0330	43	221.	1		0945	118	2.	1		1600	193	0.	1		2215	268	0.
1		0335	44	319.	1		0950	119	1.	1		1605	194	0.	1		2220	269	0.
1		0340	45	400.	1		0955	120	1.	1		1610	195	0.	1		2225	270	0.
1		0345	46	461.	1		1000	121	1.	1		1615	196	0.	1		2230	271	0.
1		0350	47	533.	1		1005	122	1.	1		1620	197	0.	1		2235	272	0.
1		0355	48	644.	1		1010	123	0.	1		1625	198	0.	1		2240	273	0.
1		0400	49	781.	1		1015	124	0.	1		1630	199	0.	1		2245	274	0.
1		0405	50	931.	1		1020	125	0.	1		1635	200	0.	1		2250	275	0.
1		0410	51	1094.	1		1025	126	0.	1		1640	201	0.	1		2255	276	0.
1		0415	52	1275.	1		1030	127	0.	1		1645	202	0.	1		2300	277	0.
1		0420	53	1476.	1		1035	128	0.	1		1650	203	0.	1		2305	278	0.
1		0425	54	1693.	1		1040	129	0.	1		1655	204	0.	1		2310	279	0.
1		0430	55	1925.	1		1045	130	0.	1		1700	205	0.	1		2315	280	0.
1		0435	56	2168.	1		1050	131	0.	1		1705	206	0.	1		2320	281	0.
1		0440	57	2411.	1		1055	132	0.	1		1710	207	0.	1		2325	282	0.
1		0445	58	2634.	1		1100	133	0.	1		1715	208	0.	1		2330	283	0.
1		0450	59	2825.	1		1105	134	0.	1		1720	209	0.	1		2335	284	0.
1		0455	60	2968.	1		1110	135	0.	1		1725	210	0.	1		2340	285	0.
1		0500	61	3051.	1		1115	136	0.	1		1730	211	0.	1		2345	286	0.
1		0505	62	3076.	1		1120	137	0.	1		1735	212	0.	1		2350	287	0.
1		0510	63	3064.	1		1125	138	0.	1		1740	213	0.	1		2355	288	0.
1		0515	64	3029.	1		1130	139	0.	1		1745	214	0.	2		0000	289	0.
1		0520	65	2977.	1		1135	140	0.	1		1750	215	0.	2		0005	290	0.
1		0525	66	2918.	1		1140	141	0.	1		1755	216	0.	2		0010	291	0.
1		0530	67	2856.	1		1145	142	0.	1		1800	217	0.	2		0015	292	0.
1		0535	68	2798.	1		1150	143	0.	1		1805	218	0.	2		0020	293	0.
1		0540	69	2746.	1		1155	144	0.	1		1810	219	0.	2		0025	294	0.
1		0545	70	2704.	1		1200	145	0.	1		1815	220	0.	2		0030	295	0.
1		0550	71	2671.	1		1205	146	0.	1		1820	221	0.	2		0035	296	0.
1		0555	72	2638.	1		1210	147	0.	1		1825	222	0.	2		0040	297	0.
1		0600	73	2599.	1		1215	148	0.	1		1830	223	0.	2		0045	298	0.
1		0605	74	2544.	1		1220	149	0.	1		1835	224	0.	2		0050	299	0.
1		0610	75	2466.	1		1225	150	0.	1		1840	225	0.	2		0055	300	0.

****

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
	(CFS)				
+ 3076.	5.08	1247.	312.	301.	301.
	(INCHES)	.212	.212	.212	.212
	(AC-FT)	618.	619.	619.	619.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .80

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	2207.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	2088.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	1950.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	1796.	1		1245	154	0.	1		1900	229	0.
1		0020	5	0.	1		0635	80	1635.	1		1250	155	0.	1		1905	230	0.
1		0025	6	0.	1		0640	81	1472.	1		1255	156	0.	1		1910	231	0.
1		0030	7	0.	1		0645	82	1314.	1		1300	157	0.	1		1915	232	0.
1		0035	8	0.	1		0650	83	1165.	1		1305	158	0.	1		1920	233	0.
1		0040	9	0.	1		0655	84	1028.	1		1310	159	0.	1		1925	234	0.
1		0045	10	0.	1		0700	85	904.	1		1315	160	0.	1		1930	235	0.
1		0050	11	0.	1		0705	86	794.	1		1320	161	0.	1		1935	236	0.
1		0055	12	0.	1		0710	87	695.	1		1325	162	0.	1		1940	237	0.
1		0100	13	0.	1		0715	88	607.	1		1330	163	0.	1		1945	238	0.
1		0105	14	0.	1		0720	89	528.	1		1335	164	0.	1		1950	239	0.
1		0110	15	0.	1		0725	90	458.	1		1340	165	0.	1		1955	240	0.
1		0115	16	0.	1		0730	91	395.	1		1345	166	0.	1		2000	241	0.
1		0120	17	0.	1		0735	92	339.	1		1350	167	0.	1		2005	242	0.
1		0125	18	0.	1		0740	93	289.	1		1355	168	0.	1		2010	243	0.
1		0130	19	0.	1		0745	94	245.	1		1400	169	0.	1		2015	244	0.
1		0135	20	0.	1		0750	95	207.	1		1405	170	0.	1		2020	245	0.
1		0140	21	0.	1		0755	96	173.	1		1410	171	0.	1		2025	246	0.
1		0145	22	0.	1		0800	97	145.	1		1415	172	0.	1		2030	247	0.
1		0150	23	0.	1		0805	98	121.	1		1420	173	0.	1		2035	248	0.
1		0155	24	1.	1		0810	99	101.	1		1425	174	0.	1		2040	249	0.
1		0200	25	2.	1		0815	100	83.	1		1430	175	0.	1		2045	250	0.
1		0205	26	3.	1		0820	101	69.	1		1435	176	0.	1		2050	251	0.
1		0210	27	4.	1		0825	102	57.	1		1440	177	0.	1		2055	252	0.
1		0215	28	4.	1		0830	103	47.	1		1445	178	0.	1		2100	253	0.
1		0220	29	4.	1		0835	104	39.	1		1450	179	0.	1		2105	254	0.
1		0225	30	4.	1		0840	105	32.	1		1455	180	0.	1		2110	255	0.
1		0230	31	4.	1		0845	106	26.	1		1500	181	0.	1		2115	256	0.
1		0235	32	4.	1		0850	107	22.	1		1505	182	0.	1		2120	257	0.
1		0240	33	4.	1		0855	108	18.	1		1510	183	0.	1		2125	258	0.
1		0245	34	5.	1		0900	109	15.	1		1515	184	0.	1		2130	259	0.
1		0250	35	7.	1		0905	110	12.	1		1520	185	0.	1		2135	260	0.
1		0255	36	10.	1		0910	111	10.	1		1525	186	0.	1		2140	261	0.
1		0300	37	15.	1		0915	112	8.	1		1530	187	0.	1		2145	262	0.
1		0305	38	23.	1		0920	113	6.	1		1535	188	0.	1		2150	263	0.
1		0310	39	35.	1		0925	114	5.	1		1540	189	0.	1		2155	264	0.
1		0315	40	53.	1		0930	115	4.	1		1545	190	0.	1		2200	265	0.
1		0320	41	79.	1		0935	116	3.	1		1550	191	0.	1		2205	266	0.
1		0325	42	119.	1		0940	117	2.	1		1555	192	0.	1		2210	267	0.
1		0330	43	186.	1		0945	118	2.	1		1600	193	0.	1		2215	268	0.
1		0335	44	274.	1		0950	119	1.	1		1605	194	0.	1		2220	269	0.
1		0340	45	345.	1		0955	120	1.	1		1610	195	0.	1		2225	270	0.
1		0345	46	399.	1		1000	121	1.	1		1615	196	0.	1		2230	271	0.
1		0350	47	465.	1		1005	122	1.	1		1620	197	0.	1		2235	272	0.
1		0355	48	564.	1		1010	123	0.	1		1625	198	0.	1		2240	273	0.
1		0400	49	688.	1		1015	124	0.	1		1630	199	0.	1		2245	274	0.
1		0405	50	824.	1		1020	125	0.	1		1635	200	0.	1		2250	275	0.
1		0410	51	970.	1		1025	126	0.	1		1640	201	0.	1		2255	276	0.
1		0415	52	1134.	1		1030	127	0.	1		1645	202	0.	1		2300	277	0.
1		0420	53	1317.	1		1035	128	0.	1		1650	203	0.	1		2305	278	0.
1		0425	54	1517.	1		1040	129	0.	1		1655	204	0.	1		2310	279	0.
1		0430	55	1731.	1		1045	130	0.	1		1700	205	0.	1		2315	280	0.
1		0435	56	1956.	1		1050	131	0.	1		1705	206	0.	1		2320	281	0.
1		0440	57	2183.	1		1055	132	0.	1		1710	207	0.	1		2325	282	0.
1		0445	58	2392.	1		1100	133	0.	1		1715	208	0.	1		2330	283	0.
1		0450	59	2572.	1		1105	134	0.	1		1720	209	0.	1		2335	284	0.
1		0455	60	2710.	1		1110	135	0.	1		1725	210	0.	1		2340	285	0.
1		0500	61	2791.	1		1115	136	0.	1		1730	211	0.	1		2345	286	0.
1		0505	62	2820.	1		1120	137	0.	1		1735	212	0.	1		2350	287	0.
1		0510	63	2815.	1		1125	138	0.	1		1740	213	0.	1		2355	288	0.
1		0515	64	2787.	1		1130	139	0.	1		1745	214	0.	2		0000	289	0.
1		0520	65	2744.	1		1135	140	0.	1		1750	215	0.	2		0005	290	0.
1		0525	66	2694.	1		1140	141	0.	1		1755	216	0.	2		0010	291	0.
1		0530	67	2641.	1		1145	142	0.	1		1800	217	0.	2		0015	292	0.
1		0535	68	2591.	1		1150	143	0.	1		1805	218	0.	2		0020	293	0.
1		0540	69	2548.	1		1155	144	0.	1		1810	219	0.	2		0025	294	0.
1		0545	70	2512.	1		1200	145	0.	1		1815	220	0.	2		0030	295	0.
1		0550	71	2484.	1		1205	146	0.	1		1820	221	0.	2		0035	296	0.
1		0555	72	2456.	1		1210	147	0.	1		1825	222	0.	2		0040	297	0.
1		0600	73	2422.	1		1215	148	0.	1		1830	223	0.	2		0045	298	0.
1		0605	74	2373.	1		1220	149	0.	1		1835	224	0.	2		0050	299	0.
1		0610	75	2302.	1		1225	150	0.	1		1840	225	0.	2		0055	300	0.

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
	(CFS)				
+ 2820.	5.08	1147.	287.	277.	277.
	(INCHES)	.195	.195	.195	.195
	(AC-FT)	569.	570.	570.	570.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .76

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	1994.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	1889.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	1765.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	1627.	1		1245	154	0.	1		1900	229	0.
1		0020	5	0.	1		0635	80	1481.	1		1250	155	0.	1		1905	230	0.
1		0025	6	0.	1		0640	81	1334.	1		1255	156	0.	1		1910	231	0.
1		0030	7	0.	1		0645	82	1191.	1		1300	157	0.	1		1915	232	0.
1		0035	8	0.	1		0650	83	1057.	1		1305	158	0.	1		1920	233	0.
1		0040	9	0.	1		0655	84	933.	1		1310	159	0.	1		1925	234	0.
1		0045	10	0.	1		0700	85	821.	1		1315	160	0.	1		1930	235	0.
1		0050	11	0.	1		0705	86	721.	1		1320	161	0.	1		1935	236	0.
1		0055	12	0.	1		0710	87	631.	1		1325	162	0.	1		1940	237	0.
1		0100	13	0.	1		0715	88	551.	1		1330	163	0.	1		1945	238	0.
1		0105	14	0.	1		0720	89	480.	1		1335	164	0.	1		1950	239	0.
1		0110	15	0.	1		0725	90	416.	1		1340	165	0.	1		1955	240	0.
1		0115	16	0.	1		0730	91	359.	1		1345	166	0.	1		2000	241	0.
1		0120	17	0.	1		0735	92	308.	1		1350	167	0.	1		2005	242	0.
1		0125	18	0.	1		0740	93	263.	1		1355	168	0.	1		2010	243	0.
1		0130	19	0.	1		0745	94	223.	1		1400	169	0.	1		2015	244	0.
1		0135	20	0.	1		0750	95	188.	1		1405	170	0.	1		2020	245	0.
1		0140	21	0.	1		0755	96	158.	1		1410	171	0.	1		2025	246	0.
1		0145	22	0.	1		0800	97	132.	1		1415	172	0.	1		2030	247	0.
1		0150	23	0.	1		0805	98	110.	1		1420	173	0.	1		2035	248	0.
1		0155	24	0.	1		0810	99	92.	1		1425	174	0.	1		2040	249	0.
1		0200	25	1.	1		0815	100	76.	1		1430	175	0.	1		2045	250	0.
1		0205	26	1.	1		0820	101	63.	1		1435	176	0.	1		2050	251	0.
1		0210	27	2.	1		0825	102	52.	1		1440	177	0.	1		2055	252	0.
1		0215	28	3.	1		0830	103	43.	1		1445	178	0.	1		2100	253	0.
1		0220	29	3.	1		0835	104	36.	1		1450	179	0.	1		2105	254	0.
1		0225	30	3.	1		0840	105	29.	1		1455	180	0.	1		2110	255	0.
1		0230	31	3.	1		0845	106	24.	1		1500	181	0.	1		2115	256	0.
1		0235	32	3.	1		0850	107	20.	1		1505	182	0.	1		2120	257	0.
1		0240	33	3.	1		0855	108	16.	1		1510	183	0.	1		2125	258	0.
1		0245	34	4.	1		0900	109	13.	1		1515	184	0.	1		2130	259	0.
1		0250	35	5.	1		0905	110	11.	1		1520	185	0.	1		2135	260	0.
1		0255	36	7.	1		0910	111	9.	1		1525	186	0.	1		2140	261	0.
1		0300	37	12.	1		0915	112	7.	1		1530	187	0.	1		2145	262	0.
1		0305	38	18.	1		0920	113	6.	1		1535	188	0.	1		2150	263	0.
1		0310	39	27.	1		0925	114	4.	1		1540	189	0.	1		2155	264	0.
1		0315	40	41.	1		0930	115	3.	1		1545	190	0.	1		2200	265	0.
1		0320	41	61.	1		0935	116	3.	1		1550	191	0.	1		2205	266	0.
1		0325	42	93.	1		0940	117	2.	1		1555	192	0.	1		2210	267	0.
1		0330	43	146.	1		0945	118	2.	1		1600	193	0.	1		2215	268	0.
1		0335	44	217.	1		0950	119	1.	1		1605	194	0.	1		2220	269	0.
1		0340	45	277.	1		0955	120	1.	1		1610	195	0.	1		2225	270	0.
1		0345	46	323.	1		1000	121	1.	1		1615	196	0.	1		2230	271	0.
1		0350	47	379.	1		1005	122	1.	1		1620	197	0.	1		2235	272	0.
1		0355	48	462.	1		1010	123	0.	1		1625	198	0.	1		2240	273	0.
1		0400	49	565.	1		1015	124	0.	1		1630	199	0.	1		2245	274	0.
1		0405	50	681.	1		1020	125	0.	1		1635	200	0.	1		2250	275	0.
1		0410	51	808.	1		1025	126	0.	1		1640	201	0.	1		2255	276	0.
1		0415	52	950.	1		1030	127	0.	1		1645	202	0.	1		2300	277	0.
1		0420	53	1110.	1		1035	128	0.	1		1650	203	0.	1		2305	278	0.
1		0425	54	1285.	1		1040	129	0.	1		1655	204	0.	1		2310	279	0.
1		0430	55	1473.	1		1045	130	0.	1		1700	205	0.	1		2315	280	0.
1		0435	56	1674.	1		1050	131	0.	1		1705	206	0.	1		2320	281	0.
1		0440	57	1877.	1		1055	132	0.	1		1710	207	0.	1		2325	282	0.
1		0445	58	2068.	1		1100	133	0.	1		1715	208	0.	1		2330	283	0.
1		0450	59	2234.	1		1105	134	0.	1		1720	209	0.	1		2335	284	0.
1		0455	60	2364.	1		1110	135	0.	1		1725	210	0.	1		2340	285	0.
1		0500	61	2443.	1		1115	136	0.	1		1730	211	0.	1		2345	286	0.
1		0505	62	2475.	1		1120	137	0.	1		1735	212	0.	1		2350	287	0.
1		0510	63	2477.	1		1125	138	0.	1		1740	213	0.	1		2355	288	0.
1		0515	64	2459.	1		1130	139	0.	1		1745	214	0.	2		0000	289	0.
1		0520	65	2428.	1		1135	140	0.	1		1750	215	0.	2		0005	290	0.
1		0525	66	2390.	1		1140	141	0.	1		1755	216	0.	2		0010	291	0.
1		0530	67	2349.	1		1145	142	0.	1		1800	217	0.	2		0015	292	0.

1	0535	68	2310.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.					
1	0540	69	2276.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.					
1	0545	70	2250.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.					
1	0550	71	2229.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.					
1	0555	72	2208.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.					
1	0600	73	2180.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.					
1	0605	74	2139.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.					
1	0610	75	2077.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.					

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 2477.	5.17	1013.	254.	244.	244.
		(INCHES) .172	.172	.172	.172
		(AC-FT) 502.	503.	503.	503.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .73

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	*	1	0615	76	1780.	*	1	1230	151	0.	*	1	1845	226	0.				
1	0005	2	0.	*	1	0620	77	1688.	*	1	1235	152	0.	*	1	1850	227	0.				
1	0010	3	0.	*	1	0625	78	1578.	*	1	1240	153	0.	*	1	1855	228	0.				
1	0015	4	0.	*	1	0630	79	1456.	*	1	1245	154	0.	*	1	1900	229	0.				
1	0020	5	0.	*	1	0635	80	1327.	*	1	1250	155	0.	*	1	1905	230	0.				
1	0025	6	0.	*	1	0640	81	1196.	*	1	1255	156	0.	*	1	1910	231	0.				
1	0030	7	0.	*	1	0645	82	1069.	*	1	1300	157	0.	*	1	1915	232	0.				
1	0035	8	0.	*	1	0650	83	948.	*	1	1305	158	0.	*	1	1920	233	0.				
1	0040	9	0.	*	1	0655	84	838.	*	1	1310	159	0.	*	1	1925	234	0.				
1	0045	10	0.	*	1	0700	85	738.	*	1	1315	160	0.	*	1	1930	235	0.				
1	0050	11	0.	*	1	0705	86	648.	*	1	1320	161	0.	*	1	1935	236	0.				
1	0055	12	0.	*	1	0710	87	568.	*	1	1325	162	0.	*	1	1940	237	0.				
1	0100	13	0.	*	1	0715	88	496.	*	1	1330	163	0.	*	1	1945	238	0.				
1	0105	14	0.	*	1	0720	89	432.	*	1	1335	164	0.	*	1	1950	239	0.				
1	0110	15	0.	*	1	0725	90	375.	*	1	1340	165	0.	*	1	1955	240	0.				
1	0115	16	0.	*	1	0730	91	324.	*	1	1345	166	0.	*	1	2000	241	0.				
1	0120	17	0.	*	1	0735	92	278.	*	1	1350	167	0.	*	1	2005	242	0.				
1	0125	18	0.	*	1	0740	93	237.	*	1	1355	168	0.	*	1	2010	243	0.				
1	0130	19	0.	*	1	0745	94	201.	*	1	1400	169	0.	*	1	2015	244	0.				
1	0135	20	0.	*	1	0750	95	170.	*	1	1405	170	0.	*	1	2020	245	0.				
1	0140	21	0.	*	1	0755	96	143.	*	1	1410	171	0.	*	1	2025	246	0.				
1	0145	22	0.	*	1	0800	97	119.	*	1	1415	172	0.	*	1	2030	247	0.				
1	0150	23	0.	*	1	0805	98	99.	*	1	1420	173	0.	*	1	2035	248	0.				
1	0155	24	0.	*	1	0810	99	83.	*	1	1425	174	0.	*	1	2040	249	0.				
1	0200	25	0.	*	1	0815	100	69.	*	1	1430	175	0.	*	1	2045	250	0.				
1	0205	26	0.	*	1	0820	101	57.	*	1	1435	176	0.	*	1	2050	251	0.				
1	0210	27	1.	*	1	0825	102	47.	*	1	1440	177	0.	*	1	2055	252	0.				
1	0215	28	2.	*	1	0830	103	39.	*	1	1445	178	0.	*	1	2100	253	0.				
1	0220	29	2.	*	1	0835	104	32.	*	1	1450	179	0.	*	1	2105	254	0.				
1	0225	30	2.	*	1	0840	105	27.	*	1	1455	180	0.	*	1	2110	255	0.				
1	0230	31	2.	*	1	0845	106	22.	*	1	1500	181	0.	*	1	2115	256	0.				
1	0235	32	2.	*	1	0850	107	18.	*	1	1505	182	0.	*	1	2120	257	0.				
1	0240	33	2.	*	1	0855	108	15.	*	1	1510	183	0.	*	1	2125	258	0.				
1	0245	34	3.	*	1	0900	109	12.	*	1	1515	184	0.	*	1	2130	259	0.				
1	0250	35	4.	*	1	0905	110	10.	*	1	1520	185	0.	*	1	2135	260	0.				
1	0255	36	6.	*	1	0910	111	8.	*	1	1525	186	0.	*	1	2140	261	0.				
1	0300	37	9.	*	1	0915	112	6.	*	1	1530	187	0.	*	1	2145	262	0.				
1	0305	38	14.	*	1	0920	113	5.	*	1	1535	188	0.	*	1	2150	263	0.				
1	0310	39	21.	*	1	0925	114	4.	*	1	1540	189	0.	*	1	2155	264	0.				
1	0315	40	33.	*	1	0930	115	3.	*	1	1545	190	0.	*	1	2200	265	0.				
1	0320	41	48.	*	1	0935	116	2.	*	1	1550	191	0.	*	1	2205	266	0.				
1	0325	42	73.	*	1	0940	117	2.	*	1	1555	192	0.	*	1	2210	267	0.				
1	0330	43	114.	*	1	0945	118	1.	*	1	1600	193	0.	*	1	2215	268	0.				
1	0335	44	168.	*	1	0950	119	1.	*	1	1605	194	0.	*	1	2220	269	0.				
1	0340	45	216.	*	1	0955	120	1.	*	1	1610	195	0.	*	1	2225	270	0.				
1	0345	46	255.	*	1	1000	121	1.	*	1	1615	196	0.	*	1	2230	271	0.				
1	0350	47	301.	*	1	1005	122	0.	*	1	1620	197	0.	*	1	2235	272	0.				
1	0355	48	369.	*	1	1010	123	0.	*	1	1625	198	0.	*	1	2240	273	0.				
1	0400	49	454.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.				
1	0405	50	550.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.				
1	0410	51	656.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.				
1	0415	52	776.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.				
1	0420	53	911.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.				
1	0425	54	1061.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.				
1	0430	55	1225.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.				
1	0435	56	1400.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.				
1	0440	57	1581.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.				
1	0445	58	1751.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.				
1	0450	59	1902.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.				
1	0455	60	2022.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.				
1	0500	61	2098.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.				
1	0505	62	2134.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.				

1	0510	63	2143.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.					
1	0515	64	2135.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.					
1	0520	65	2115.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.					
1	0525	66	2088.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.					
1	0530	67	2059.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.					
1	0535	68	2030.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.					
1	0540	69	2006.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.					
1	0545	70	1987.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.					
1	0550	71	1974.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.					
1	0555	72	1959.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.					
1	0600	73	1939.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.					
1	0605	74	1905.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.					
1	0610	75	1853.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.					

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 2143.	5.17	881.	221.	212.	212.
		(INCHES) .150	.150	.150	.150
		(AC-FT) 437.	438.	438.	438.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .69

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	*	1	0615	76	1623.	*	1	1230	151	0.	*	1	1845	226	0.				
1	0005	2	0.	*	1	0620	77	1541.	*	1	1235	152	0.	*	1	1850	227	0.				
1	0010	3	0.	*	1	0625	78	1442.	*	1	1240	153	0.	*	1	1855	228	0.				
1	0015	4	0.	*	1	0630	79	1331.	*	1	1245	154	0.	*	1	1900	229	0.				
1	0020	5	0.	*	1	0635	80	1214.	*	1	1250	155	0.	*	1	1905	230	0.				
1	0025	6	0.	*	1	0640	81	1095.	*	1	1255	156	0.	*	1	1910	231	0.				
1	0030	7	0.	*	1	0645	82	978.	*	1	1300	157	0.	*	1	1915	232	0.				
1	0035	8	0.	*	1	0650	83	869.	*	1	1305	158	0.	*	1	1920	233	0.				
1	0040	9	0.	*	1	0655	84	767.	*	1	1310	159	0.	*	1	1925	234	0.				
1	0045	10	0.	*	1	0700	85	676.	*	1	1315	160	0.	*	1	1930	235	0.				
1	0050	11	0.	*	1	0705	86	594.	*	1	1320	161	0.	*	1	1935	236	0.				
1	0055	12	0.	*	1	0710	87	520.	*	1	1325	162	0.	*	1	1940	237	0.				
1	0100	13	0.	*	1	0715	88	455.	*	1	1330	163	0.	*	1	1945	238	0.				
1	0105	14	0.	*	1	0720	89	396.	*	1	1335	164	0.	*	1	1950	239	0.				
1	0110	15	0.	*	1	0725	90	344.	*	1	1340	165	0.	*	1	1955	240	0.				
1	0115	16	0.	*	1	0730	91	297.	*	1	1345	166	0.	*	1	2000	241	0.				
1	0120	17	0.	*	1	0735	92	255.	*	1	1350	167	0.	*	1	2005	242	0.				
1	0125	18	0.	*	1	0740	93	218.	*	1	1355	168	0.	*	1	2010	243	0.				
1	0130	19	0.	*	1	0745	94	185.	*	1	1400	169	0.	*	1	2015	244	0.				
1	0135	20	0.	*	1	0750	95	156.	*	1	1405	170	0.	*	1	2020	245	0.				
1	0140	21	0.	*	1	0755	96	131.	*	1	1410	171	0.	*	1	2025	246	0.				
1	0145	22	0.	*	1	0800	97	110.	*	1	1415	172	0.	*	1	2030	247	0.				
1	0150	23	0.	*	1	0805	98	91.	*	1	1420	173	0.	*	1	2035	248	0.				
1	0155	24	0.	*	1	0810	99	76.	*	1	1425	174	0.	*	1	2040	249	0.				
1	0200	25	0.	*	1	0815	100	63.	*	1	1430	175	0.	*	1	2045	250	0.				
1	0205	26	0.	*	1	0820	101	52.	*	1	1435	176	0.	*	1	2050	251	0.				
1	0210	27	0.	*	1	0825	102	43.	*	1	1440	177	0.	*	1	2055	252	0.				
1	0215	28	1.	*	1	0830	103	36.	*	1	1445	178	0.	*	1	2100	253	0.				
1	0220	29	1.	*	1	0835	104	30.	*	1	1450	179	0.	*	1	2105	254	0.				
1	0225	30	1.	*	1	0840	105	24.	*	1	1455	180	0.	*	1	2110	255	0.				
1	0230	31	1.	*	1	0845	106	20.	*	1	1500	181	0.	*	1	2115	256	0.				
1	0235	32	1.	*	1	0850	107	17.	*	1	1505	182	0.	*	1	2120	257	0.				
1	0240	33	1.	*	1	0855	108	14.	*	1	1510	183	0.	*	1	2125	258	0.				
1	0245	34	2.	*	1	0900	109	11.	*	1	1515	184	0.	*	1	2130	259	0.				
1	0250	35	3.	*	1	0905	110	9.	*	1	1520	185	0.	*	1	2135	260	0.				
1	0255	36	4.	*	1	0910	111	7.	*	1	1525	186	0.	*	1	2140	261	0.				
1	0300	37	7.	*	1	0915	112	6.	*	1	1530	187	0.	*	1	2145	262	0.				
1	0305	38	11.	*	1	0920	113	5.	*	1	1535	188	0.	*	1	2150	263	0.				
1	0310	39	17.	*	1	0925	114	4.	*	1	1540	189	0.	*	1	2155	264	0.				
1	0315	40	27.	*	1	0930	115	3.	*	1	1545	190	0.	*	1	2200	265	0.				
1	0320	41	40.	*	1	0935	116	2.	*	1	1550	191	0.	*	1	2205	266	0.				
1	0325	42	61.	*	1	0940	117	2.	*	1	1555	192	0.	*	1	2210	267	0.				
1	0330	43	93.	*	1	0945	118	1.	*	1	1600	193	0.	*	1	2215	268	0.				
1	0335	44	137.	*	1	0950	119	1.	*	1	1605	194	0.	*	1	2220	269	0.				
1	0340	45	178.	*	1	0955	120	1.	*	1	1610	195	0.	*	1	2225	270	0.				
1	0345	46	211.	*	1	1000	121	1.	*	1	1615	196	0.	*	1	2230	271	0.				
1	0350	47	248.	*	1	1005	122	0.	*	1	1620	197	0.	*	1	2235	272	0.				
1	0355	48	304.	*	1	1010	123	0.	*	1	1625	198	0.	*	1	2240	273	0.				
1	0400	49	380.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.				
1	0405	50	464.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.				
1	0410	51	555.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.				
1	0415	52	658.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.				
1	0420	53	775.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.				
1	0425	54	907.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.				
1	0430	55	1052.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.				
1	0435	56	1207.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.				
1	0440	57	1370.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.				

1	0445	58	1526.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.					
1	0450	59	1664.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.					
1	0455	60	1777.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.					
1	0500	61	1852.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.					
1	0505	62	1890.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.					
1	0510	63	1901.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.					
1	0515	64	1899.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.					
1	0520	65	1888.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.					
1	0525	66	1869.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.					
1	0530	67	1848.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.					
1	0535	68	1827.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.					
1	0540	69	1810.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.					
1	0545	70	1797.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.					
1	0550	71	1787.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.					
1	0555	72	1778.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.					
1	0600	73	1762.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.					
1	0605	74	1733.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.					
1	0610	75	1688.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.					
				*					*					*									

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 1901.	5.17	787.	197.	190.	190.
		(INCHES) .134	.134	.134	.134
		(AC-FT) 390.	391.	391.	391.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .64

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	1345.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	1279.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	1199.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	1109.	1		1245	154	0.	1		1900	229	0.
1		0020	5	0.	1		0635	80	1012.	1		1250	155	0.	1		1905	230	0.
1		0025	6	0.	1		0640	81	914.	1		1255	156	0.	1		1910	231	0.
1		0030	7	0.	1		0645	82	818.	1		1300	157	0.	1		1915	232	0.
1		0035	8	0.	1		0650	83	727.	1		1305	158	0.	1		1920	233	0.
1		0040	9	0.	1		0655	84	642.	1		1310	159	0.	1		1925	234	0.
1		0045	10	0.	1		0700	85	566.	1		1315	160	0.	1		1930	235	0.
1		0050	11	0.	1		0705	86	498.	1		1320	161	0.	1		1935	236	0.
1		0055	12	0.	1		0710	87	437.	1		1325	162	0.	1		1940	237	0.
1		0100	13	0.	1		0715	88	382.	1		1330	163	0.	1		1945	238	0.
1		0105	14	0.	1		0720	89	333.	1		1335	164	0.	1		1950	239	0.
1		0110	15	0.	1		0725	90	289.	1		1340	165	0.	1		1955	240	0.
1		0115	16	0.	1		0730	91	250.	1		1345	166	0.	1		2000	241	0.
1		0120	17	0.	1		0735	92	215.	1		1350	167	0.	1		2005	242	0.
1		0125	18	0.	1		0740	93	183.	1		1355	168	0.	1		2010	243	0.
1		0130	19	0.	1		0745	94	155.	1		1400	169	0.	1		2015	244	0.
1		0135	20	0.	1		0750	95	131.	1		1405	170	0.	1		2020	245	0.
1		0140	21	0.	1		0755	96	110.	1		1410	171	0.	1		2025	246	0.
1		0145	22	0.	1		0800	97	92.	1		1415	172	0.	1		2030	247	0.
1		0150	23	0.	1		0805	98	77.	1		1420	173	0.	1		2035	248	0.
1		0155	24	0.	1		0810	99	64.	1		1425	174	0.	1		2040	249	0.
1		0200	25	0.	1		0815	100	53.	1		1430	175	0.	1		2045	250	0.
1		0205	26	0.	1		0820	101	44.	1		1435	176	0.	1		2050	251	0.
1		0210	27	0.	1		0825	102	37.	1		1440	177	0.	1		2055	252	0.
1		0215	28	0.	1		0830	103	30.	1		1445	178	0.	1		2100	253	0.
1		0220	29	0.	1		0835	104	25.	1		1450	179	0.	1		2105	254	0.
1		0225	30	0.	1		0840	105	21.	1		1455	180	0.	1		2110	255	0.
1		0230	31	0.	1		0845	106	17.	1		1500	181	0.	1		2115	256	0.
1		0235	32	0.	1		0850	107	14.	1		1505	182	0.	1		2120	257	0.
1		0240	33	0.	1		0855	108	11.	1		1510	183	0.	1		2125	258	0.
1		0245	34	1.	1		0900	109	9.	1		1515	184	0.	1		2130	259	0.
1		0250	35	1.	1		0905	110	8.	1		1520	185	0.	1		2135	260	0.
1		0255	36	2.	1		0910	111	6.	1		1525	186	0.	1		2140	261	0.
1		0300	37	4.	1		0915	112	5.	1		1530	187	0.	1		2145	262	0.
1		0305	38	7.	1		0920	113	4.	1		1535	188	0.	1		2150	263	0.
1		0310	39	11.	1		0925	114	3.	1		1540	189	0.	1		2155	264	0.
1		0315	40	19.	1		0930	115	2.	1		1545	190	0.	1		2200	265	0.
1		0320	41	29.	1		0935	116	2.	1		1550	191	0.	1		2205	266	0.
1		0325	42	45.	1		0940	117	1.	1		1555	192	0.	1		2210	267	0.
1		0330	43	69.	1		0945	118	1.	1		1600	193	0.	1		2215	268	0.
1		0335	44	99.	1		0950	119	1.	1		1605	194	0.	1		2220	269	0.
1		0340	45	121.	1		0955	120	1.	1		1610	195	0.	1		2225	270	0.
1		0345	46	139.	1		1000	121	1.	1		1615	196	0.	1		2230	271	0.
1		0350	47	166.	1		1005	122	0.	1		1620	197	0.	1		2235	272	0.
1		0355	48	207.	1		1010	123	0.	1		1625	198	0.	1		2240	273	0.
1		0400	49	262.	1		1015	124	0.	1		1630	199	0.	1		2245	274	0.
1		0405	50	324.	1		1020	125	0.	1		1635	200	0.	1		2250	275	0.
1		0410	51	391.	1		1025	126	0.	1		1640	201	0.	1		2255	276	0.
1		0415	52	467.	1		1030	127	0.	1		1645	202	0.	1		2300	277	0.

1	0420	53	554.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.					
1	0425	54	653.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.					
1	0430	55	765.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.					
1	0435	56	887.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.					
1	0440	57	1016.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.					
1	0445	58	1143.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.					
1	0450	59	1260.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.					
1	0455	60	1356.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.					
1	0500	61	1425.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.					
1	0505	62	1464.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.					
1	0510	63	1483.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.					
1	0515	64	1492.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.					
1	0520	65	1492.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.					
1	0525	66	1487.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.					
1	0530	67	1478.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.					
1	0535	68	1470.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.					
1	0540	69	1463.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.					
1	0545	70	1460.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.					
1	0550	71	1459.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.					
1	0555	72	1457.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.					
1	0600	73	1449.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.					
1	0605	74	1430.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.					
1	0610	75	1396.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.					
				*					*					*									

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 1492.	5.33	625.	156.	151.	151.
		(INCHES) .106	.106	.106	.106
		(AC-FT) 310.	310.	310.	310.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .58

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	1058.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	1008.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	948.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	878.	1		1245	154	0.	1		1900	229	0.
1		0020	5	0.	1		0635	80	803.	1		1250	155	0.	1		1905	230	0.
1		0025	6	0.	1		0640	81	726.	1		1255	156	0.	1		1910	231	0.
1		0030	7	0.	1		0645	82	651.	1		1300	157	0.	1		1915	232	0.
1		0035	8	0.	1		0650	83	579.	1		1305	158	0.	1		1920	233	0.
1		0040	9	0.	1		0655	84	512.	1		1310	159	0.	1		1925	234	0.
1		0045	10	0.	1		0700	85	452.	1		1315	160	0.	1		1930	235	0.
1		0050	11	0.	1		0705	86	398.	1		1320	161	0.	1		1935	236	0.
1		0055	12	0.	1		0710	87	349.	1		1325	162	0.	1		1940	237	0.
1		0100	13	0.	1		0715	88	306.	1		1330	163	0.	1		1945	238	0.
1		0105	14	0.	1		0720	89	267.	1		1335	164	0.	1		1950	239	0.
1		0110	15	0.	1		0725	90	232.	1		1340	165	0.	1		1955	240	0.
1		0115	16	0.	1		0730	91	200.	1		1345	166	0.	1		2000	241	0.
1		0120	17	0.	1		0735	92	172.	1		1350	167	0.	1		2005	242	0.
1		0125	18	0.	1		0740	93	147.	1		1355	168	0.	1		2010	243	0.
1		0130	19	0.	1		0745	94	125.	1		1400	169	0.	1		2015	244	0.
1		0135	20	0.	1		0750	95	106.	1		1405	170	0.	1		2020	245	0.
1		0140	21	0.	1		0755	96	89.	1		1410	171	0.	1		2025	246	0.
1		0145	22	0.	1		0800	97	75.	1		1415	172	0.	1		2030	247	0.
1		0150	23	0.	1		0805	98	62.	1		1420	173	0.	1		2035	248	0.
1		0155	24	0.	1		0810	99	52.	1		1425	174	0.	1		2040	249	0.
1		0200	25	0.	1		0815	100	43.	1		1430	175	0.	1		2045	250	0.
1		0205	26	0.	1		0820	101	36.	1		1435	176	0.	1		2050	251	0.
1		0210	27	0.	1		0825	102	30.	1		1440	177	0.	1		2055	252	0.
1		0215	28	0.	1		0830	103	25.	1		1445	178	0.	1		2100	253	0.
1		0220	29	0.	1		0835	104	20.	1		1450	179	0.	1		2105	254	0.
1		0225	30	0.	1		0840	105	17.	1		1455	180	0.	1		2110	255	0.
1		0230	31	0.	1		0845	106	14.	1		1500	181	0.	1		2115	256	0.
1		0235	32	0.	1		0850	107	11.	1		1505	182	0.	1		2120	257	0.
1		0240	33	0.	1		0855	108	9.	1		1510	183	0.	1		2125	258	0.
1		0245	34	0.	1		0900	109	8.	1		1515	184	0.	1		2130	259	0.
1		0250	35	0.	1		0905	110	6.	1		1520	185	0.	1		2135	260	0.
1		0255	36	0.	1		0910	111	5.	1		1525	186	0.	1		2140	261	0.
1		0300	37	1.	1		0915	112	4.	1		1530	187	0.	1		2145	262	0.
1		0305	38	2.	1		0920	113	3.	1		1535	188	0.	1		2150	263	0.
1		0310	39	5.	1		0925	114	2.	1		1540	189	0.	1		2155	264	0.
1		0315	40	11.	1		0930	115	2.	1		1545	190	0.	1		2200	265	0.
1		0320	41	18.	1		0935	116	2.	1		1550	191	0.	1		2205	266	0.
1		0325	42	30.	1		0940	117	1.	1		1555	192	0.	1		2210	267	0.
1		0330	43	49.	1		0945	118	1.	1		1600	193	0.	1		2215	268	0.
1		0335	44	69.	1		0950	119	1.	1		1605	194	0.	1		2220	269	0.
1		0340	45	79.	1		0955	120	1.	1		1610	195	0.	1		2225	270	0.
1		0345	46	85.	1		1000	121	0.	1		1615	196	0.	1		2230	271	0.
1		0350	47	95.	1		1005	122	0.	1		1620	197	0.	1		2235	272	0.

1	0355	48	121.	1	1010	123	0.	1	1625	198	0.	1	2240	273	0.
1	0400	49	159.	1	1015	124	0.	1	1630	199	0.	1	2245	274	0.
1	0405	50	201.	1	1020	125	0.	1	1635	200	0.	1	2250	275	0.
1	0410	51	246.	1	1025	126	0.	1	1640	201	0.	1	2255	276	0.
1	0415	52	297.	1	1030	127	0.	1	1645	202	0.	1	2300	277	0.
1	0420	53	356.	1	1035	128	0.	1	1650	203	0.	1	2305	278	0.
1	0425	54	424.	1	1040	129	0.	1	1655	204	0.	1	2310	279	0.
1	0430	55	502.	1	1045	130	0.	1	1700	205	0.	1	2315	280	0.
1	0435	56	589.	1	1050	131	0.	1	1705	206	0.	1	2320	281	0.
1	0440	57	684.	1	1055	132	0.	1	1710	207	0.	1	2325	282	0.
1	0445	58	779.	1	1100	133	0.	1	1715	208	0.	1	2330	283	0.
1	0450	59	870.	1	1105	134	0.	1	1720	209	0.	1	2335	284	0.
1	0455	60	947.	1	1110	135	0.	1	1725	210	0.	1	2340	285	0.
1	0500	61	1006.	1	1115	136	0.	1	1730	211	0.	1	2345	286	0.
1	0505	62	1044.	1	1120	137	0.	1	1735	212	0.	1	2350	287	0.
1	0510	63	1069.	1	1125	138	0.	1	1740	213	0.	1	2355	288	0.
1	0515	64	1084.	1	1130	139	0.	1	1745	214	0.	2	0000	289	0.
1	0520	65	1095.	1	1135	140	0.	1	1750	215	0.	2	0005	290	0.
1	0525	66	1101.	1	1140	141	0.	1	1755	216	0.	2	0010	291	0.
1	0530	67	1105.	1	1145	142	0.	1	1800	217	0.	2	0015	292	0.
1	0535	68	1108.	1	1150	143	0.	1	1805	218	0.	2	0020	293	0.
1	0540	69	1111.	1	1155	144	0.	1	1810	219	0.	2	0025	294	0.
1	0545	70	1116.	1	1200	145	0.	1	1815	220	0.	2	0030	295	0.
1	0550	71	1122.	1	1205	146	0.	1	1820	221	0.	2	0035	296	0.
1	0555	72	1127.	1	1210	147	0.	1	1825	222	0.	2	0040	297	0.
1	0600	73	1126.	1	1215	148	0.	1	1830	223	0.	2	0045	298	0.
1	0605	74	1117.	1	1220	149	0.	1	1835	224	0.	2	0050	299	0.
1	0610	75	1094.	1	1225	150	0.	1	1840	225	0.	2	0055	300	0.

	PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
				6-HR	24-HR	72-HR	24.92-HR
+	(CFS)	(HR)					
			(CFS)				
+	1127.	5.92		465.	116.	112.	112.
			(INCHES)	.079	.079	.079	.079
			(AC-FT)	230.	231.	231.	231.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .53

DA MON	HRMN	ORD	FLOW	DA MON	HRMN	ORD	FLOW	DA MON	HRMN	ORD	FLOW	DA MON	HRMN	ORD	FLOW
1	0000	1	0.	1	0615	76	833.	1	1230	151	0.	1	1845	226	0.
1	0005	2	0.	1	0620	77	797.	1	1235	152	0.	1	1850	227	0.
1	0010	3	0.	1	0625	78	750.	1	1240	153	0.	1	1855	228	0.
1	0015	4	0.	1	0630	79	697.	1	1245	154	0.	1	1900	229	0.
1	0020	5	0.	1	0635	80	638.	1	1250	155	0.	1	1905	230	0.
1	0025	6	0.	1	0640	81	578.	1	1255	156	0.	1	1910	231	0.
1	0030	7	0.	1	0645	82	519.	1	1300	157	0.	1	1915	232	0.
1	0035	8	0.	1	0650	83	462.	1	1305	158	0.	1	1920	233	0.
1	0040	9	0.	1	0655	84	410.	1	1310	159	0.	1	1925	234	0.
1	0045	10	0.	1	0700	85	362.	1	1315	160	0.	1	1930	235	0.
1	0050	11	0.	1	0705	86	319.	1	1320	161	0.	1	1935	236	0.
1	0055	12	0.	1	0710	87	280.	1	1325	162	0.	1	1940	237	0.
1	0100	13	0.	1	0715	88	246.	1	1330	163	0.	1	1945	238	0.
1	0105	14	0.	1	0720	89	215.	1	1335	164	0.	1	1950	239	0.
1	0110	15	0.	1	0725	90	187.	1	1340	165	0.	1	1955	240	0.
1	0115	16	0.	1	0730	91	162.	1	1345	166	0.	1	2000	241	0.
1	0120	17	0.	1	0735	92	139.	1	1350	167	0.	1	2005	242	0.
1	0125	18	0.	1	0740	93	119.	1	1355	168	0.	1	2010	243	0.
1	0130	19	0.	1	0745	94	101.	1	1400	169	0.	1	2015	244	0.
1	0135	20	0.	1	0750	95	86.	1	1405	170	0.	1	2020	245	0.
1	0140	21	0.	1	0755	96	72.	1	1410	171	0.	1	2025	246	0.
1	0145	22	0.	1	0800	97	61.	1	1415	172	0.	1	2030	247	0.
1	0150	23	0.	1	0805	98	51.	1	1420	173	0.	1	2035	248	0.
1	0155	24	0.	1	0810	99	42.	1	1425	174	0.	1	2040	249	0.
1	0200	25	0.	1	0815	100	35.	1	1430	175	0.	1	2045	250	0.
1	0205	26	0.	1	0820	101	29.	1	1435	176	0.	1	2050	251	0.
1	0210	27	0.	1	0825	102	24.	1	1440	177	0.	1	2055	252	0.
1	0215	28	0.	1	0830	103	20.	1	1445	178	0.	1	2100	253	0.
1	0220	29	0.	1	0835	104	17.	1	1450	179	0.	1	2105	254	0.
1	0225	30	0.	1	0840	105	14.	1	1455	180	0.	1	2110	255	0.
1	0230	31	0.	1	0845	106	11.	1	1500	181	0.	1	2115	256	0.
1	0235	32	0.	1	0850	107	9.	1	1505	182	0.	1	2120	257	0.
1	0240	33	0.	1	0855	108	8.	1	1510	183	0.	1	2125	258	0.
1	0245	34	0.	1	0900	109	6.	1	1515	184	0.	1	2130	259	0.
1	0250	35	0.	1	0905	110	5.	1	1520	185	0.	1	2135	260	0.
1	0255	36	0.	1	0910	111	4.	1	1525	186	0.	1	2140	261	0.
1	0300	37	0.	1	0915	112	3.	1	1530	187	0.	1	2145	262	0.
1	0305	38	0.	1	0920	113	3.	1	1535	188	0.	1	2150	263	0.
1	0310	39	2.	1	0925	114	2.	1	1540	189	0.	1	2155	264	0.
1	0315	40	5.	1	0930	115	2.	1	1545	190	0.	1	2200	265	0.
1	0320	41	10.	1	0935	116	1.	1	1550	191	0.	1	2205	266	0.
1	0325	42	20.	1	0940	117	1.	1	1555	192	0.	1	2210	267	0.

1	0330	43	34.	1	0945	118	1.	1	1600	193	0.	1	2215	268	0.
1	0335	44	50.	1	0950	119	1.	1	1605	194	0.	1	2220	269	0.
1	0340	45	55.	1	0955	120	0.	1	1610	195	0.	1	2225	270	0.
1	0345	46	53.	1	1000	121	0.	1	1615	196	0.	1	2230	271	0.
1	0350	47	57.	1	1005	122	0.	1	1620	197	0.	1	2235	272	0.
1	0355	48	69.	1	1010	123	0.	1	1625	198	0.	1	2240	273	0.
1	0400	49	89.	1	1015	124	0.	1	1630	199	0.	1	2245	274	0.
1	0405	50	121.	1	1020	125	0.	1	1635	200	0.	1	2250	275	0.
1	0410	51	152.	1	1025	126	0.	1	1640	201	0.	1	2255	276	0.
1	0415	52	186.	1	1030	127	0.	1	1645	202	0.	1	2300	277	0.
1	0420	53	225.	1	1035	128	0.	1	1650	203	0.	1	2305	278	0.
1	0425	54	271.	1	1040	129	0.	1	1655	204	0.	1	2310	279	0.
1	0430	55	324.	1	1045	130	0.	1	1700	205	0.	1	2315	280	0.
1	0435	56	386.	1	1050	131	0.	1	1705	206	0.	1	2320	281	0.
1	0440	57	454.	1	1055	132	0.	1	1710	207	0.	1	2325	282	0.
1	0445	58	525.	1	1100	133	0.	1	1715	208	0.	1	2330	283	0.
1	0450	59	593.	1	1105	134	0.	1	1720	209	0.	1	2335	284	0.
1	0455	60	655.	1	1110	135	0.	1	1725	210	0.	1	2340	285	0.
1	0500	61	703.	1	1115	136	0.	1	1730	211	0.	1	2345	286	0.
1	0505	62	737.	1	1120	137	0.	1	1735	212	0.	1	2350	287	0.
1	0510	63	762.	1	1125	138	0.	1	1740	213	0.	1	2355	288	0.
1	0515	64	782.	1	1130	139	0.	1	1745	214	0.	2	0000	289	0.
1	0520	65	798.	1	1135	140	0.	1	1750	215	0.	2	0005	290	0.
1	0525	66	812.	1	1140	141	0.	1	1755	216	0.	2	0010	291	0.
1	0530	67	823.	1	1145	142	0.	1	1800	217	0.	2	0015	292	0.
1	0535	68	832.	1	1150	143	0.	1	1805	218	0.	2	0020	293	0.
1	0540	69	842.	1	1155	144	0.	1	1810	219	0.	2	0025	294	0.
1	0545	70	852.	1	1200	145	0.	1	1815	220	0.	2	0030	295	0.
1	0550	71	863.	1	1205	146	0.	1	1820	221	0.	2	0035	296	0.
1	0555	72	872.	1	1210	147	0.	1	1825	222	0.	2	0040	297	0.
1	0600	73	876.	1	1215	148	0.	1	1830	223	0.	2	0045	298	0.
1	0605	74	873.	1	1220	149	0.	1	1835	224	0.	2	0050	299	0.
1	0610	75	859.	1	1225	150	0.	1	1840	225	0.	2	0055	300	0.

	PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
				6-HR	24-HR	72-HR	24.92-HR
+	(CFS)	(HR)					
			(CFS)				
+	876.	6.00		346.	87.	83.	83.
			(INCHES)	.059	.059	.059	.059
			(AC-FT)	172.	172.	172.	172.

CUMULATIVE AREA = 54.73 SQ MI

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227 KK RRDB

240 KO OUTPUT CONTROL VARIABLES
IPRNT 1 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE

HYDROGRAPH ROUTING DATA

241 RS STORAGE ROUTING
NSTPS 1 NUMBER OF SUBREACHES
ITYP STOR TYPE OF INITIAL CONDITION
RSVRIC -1.00 INITIAL CONDITION
X .00 WORKING R AND D COEFFICIENT

242 SV	STORAGE	.0	9.0	107.0	231.0	372.0	529.0	705.0	903.0	1125.0	1376.0
		1659.0	1974.0	2007.0	2115.0	2331.0	2690.0	2933.0			
244 SQ	DISCHARGE	0.	10.	57.	80.	99.	114.	128.	140.	151.	162.
		171.	181.	182.	8654.	33270.	110918.	163477.			
246 SE	ELEVATION	3161.00	3162.00	3167.00	3172.00	3177.00	3182.00	3187.00	3192.00	3197.00	3202.00
		3207.00	3212.00	3212.50	3214.00	3217.00	3222.00	3225.00			

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HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .83

DA MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000	1	0.	.0	3161.0	1	0820	101	118.	583.2	3183.5	1	1640	201	112.	506.3	3181.3
1	0005	2	0.	.0	3161.0	1	0825	102	118.	582.8	3183.5	1	1645	202	112.	505.6	3181.3
1	0010	3	0.	.0	3161.0	1	0830	103	118.	582.4	3183.5	1	1650	203	112.	504.8	3181.2

| | | |

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE		DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE		DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0450	59	60.	125.3	3167.7	*	1	1310	159	111.	492.5	3180.8	*	1	2130	259	103.	418.8	3178.5
1	0455	60	64.	143.0	3168.5	*	1	1315	160	110.	491.7	3180.8	*	1	2135	260	103.	418.1	3178.5
1	0500	61	67.	161.5	3169.2	*	1	1320	161	110.	491.0	3180.8	*	1	2140	261	103.	417.4	3178.4
1	0505	62	71.	180.4	3170.0	*	1	1325	162	110.	490.2	3180.8	*	1	2145	262	103.	416.7	3178.4
1	0510	63	74.	199.3	3170.7	*	1	1330	163	110.	489.4	3180.7	*	1	2150	263	103.	416.0	3178.4
1	0515	64	78.	218.1	3171.5	*	1	1335	164	110.	488.7	3180.7	*	1	2155	264	103.	415.3	3178.4
1	0520	65	81.	236.6	3172.2	*	1	1340	165	110.	487.9	3180.7	*	1	2200	265	103.	414.5	3178.4
1	0525	66	83.	254.7	3172.8	*	1	1345	166	110.	487.2	3180.7	*	1	2205	266	103.	413.8	3178.3
1	0530	67	86.	272.5	3173.5	*	1	1350	167	110.	486.4	3180.6	*	1	2210	267	103.	413.1	3178.3
1	0535	68	88.	289.9	3174.1	*	1	1355	168	110.	485.6	3180.6	*	1	2215	268	103.	412.4	3178.3
1	0540	69	90.	307.0	3174.7	*	1	1400	169	110.	484.9	3180.6	*	1	2220	269	103.	411.7	3178.3
1	0545	70	93.	323.8	3175.3	*	1	1405	170	110.	484.1	3180.6	*	1	2225	270	103.	411.0	3178.2
1	0550	71	95.	340.4	3175.9	*	1	1410	171	110.	483.4	3180.5	*	1	2230	271	103.	410.3	3178.2
1	0555	72	97.	356.7	3176.5	*	1	1415	172	110.	482.6	3180.5	*	1	2235	272	103.	409.6	3178.2
1	0600	73	99.	372.8	3177.0	*	1	1420	173	109.	481.9	3180.5	*	1	2240	273	103.	408.9	3178.2
1	0605	74	101.	388.7	3177.5	*	1	1425	174	109.	481.1	3180.5	*	1	2245	274	102.	408.2	3178.2
1	0610	75	102.	404.1	3178.0	*	1	1430	175	109.	480.4	3180.5	*	1	2250	275	102.	407.5	3178.1
1	0615	76	103.	418.9	3178.5	*	1	1435	176	109.	479.6	3180.4	*	1	2255	276	102.	406.8	3178.1
1	0620	77	105.	433.0	3178.9	*	1	1440	177	109.	478.9	3180.4	*	1	2300	277	102.	406.1	3178.1
1	0625	78	106.	446.1	3179.4	*	1	1445	178	109.	478.1	3180.4	*	1	2305	278	102.	405.4	3178.1
1	0630	79	107.	458.3	3179.7	*	1	1450	179	109.	477.4	3180.4	*	1	2310	279	102.	404.7	3178.0
1	0635	80	108.	469.4	3180.1	*	1	1455	180	109.	476.6	3180.3	*	1	2315	280	102.	404.0	3178.0
1	0640	81	109.	479.3	3180.4	*	1	1500	181	109.	475.9	3180.3	*	1	2320	281	102.	403.3	3178.0
1	0645	82	110.	488.2	3180.7	*	1	1505	182	109.	475.1	3180.3	*	1	2325	282	102.	402.5	3178.0
1	0650	83	111.	495.9	3180.9	*	1	1510	183	109.	474.4	3180.3	*	1	2330	283	102.	401.8	3178.0
1	0655	84	111.	502.7	3181.2	*	1	1515	184	109.	473.6	3180.2	*	1	2335	284	102.	401.1	3177.9
1	0700	85	112.	508.6	3181.4	*	1	1520	185	109.	472.9	3180.2	*	1	2340	285	102.	400.4	3177.9
1	0705	86	113.	513.7	3181.5	*	1	1525	186	109.	472.1	3180.2	*	1	2345	286	102.	399.7	3177.9
1	0710	87	113.	518.0	3181.7	*	1	1530	187	108.	471.4	3180.2	*	1	2350	287	102.	399.0	3177.9
1	0715	88	113.	521.7	3181.8	*	1	1535	188	108.	470.6	3180.1	*	1	2355	288	102.	398.3	3177.8
1	0720	89	114.	524.9	3181.9	*	1	1540	189	108.	469.9	3180.1	*	2	0000	289	101.	397.6	3177.8
1	0725	90	114.	527.5	3182.0	*	1	1545	190	108.	469.1	3180.1	*	2	0005	290	101.	396.9	3177.8
1	0730	91	114.	529.6	3182.0	*	1	1550	191	108.	468.4	3180.1	*	2	0010	291	101.	396.2	3177.8
1	0735	92	114.	531.4	3182.1	*	1	1555	192	108.	467.6	3180.0	*	2	0015	292	101.	395.6	3177.8
1	0740	93	114.	532.7	3182.1	*	1	1600	193	108.	466.9	3180.0	*	2	0020	293	101.	394.9	3177.7
1	0745	94	114.	533.8	3182.1	*	1	1605	194	108.	466.1	3180.0	*	2	0025	294	101.	394.2	3177.7
1	0750	95	114.	534.6	3182.2	*	1	1610	195	108.	465.4	3180.0	*	2	0030	295	101.	393.5	3177.7
1	0755	96	114.	535.1	3182.2	*	1	1615	196	108.	464.7	3180.0	*	2	0035	296	101.	392.8	3177.7
1	0800	97	115.	535.4	3182.2	*	1	1620	197	108.	463.9	3179.9	*	2	0040	297	101.	392.1	3177.6
1	0805	98	115.	535.5	3182.2	*	1	1625	198	108.	463.2	3179.9	*	2	0045	298	101.	391.4	3177.6
1	0810	99	115.	535.5	3182.2	*	1	1630	199	108.	462.4	3179.9	*	2	0050	299	101.	390.7	3177.6
1	0815	100	115.	535.3	3182.2	*	1	1635	200	108.	461.7	3179.9	*	2	0055	300	101.	390.0	3177.6

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 115.	8.08	113.	91.	87.	87.
		(INCHES) .019	.062	.062	.062
		(AC-FT) 56.	180.	180.	180.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
536.	8.08	519.	382.	368.	368.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3182.19	8.08	3181.67	3176.69	3176.12	3176.12

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .76

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE		DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE		DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000		1	0.	.0	3161.0	*	1	0820	101	108.	470.7	3180.1	*	1	1640	201	102.	400.4	3177.9
1	0005		2	0.	.0	3161.0	*	1	0825	102	108.	470.3	3180.1	*	1	1645	202	102.	399.7	3177.9
1	0010		3	0.	.0	3161.0	*	1	0830	103	108.	469.9	3180.1	*	1	1650	203	102.	399.0	3177.9
1	0015		4	0.	.0	3161.0	*	1	0835	104	108.	469.4	3180.1	*	1	1655	204	102.	398.3	3177.8
1	0020		5	0.	.0	3161.0	*	1	0840	105	108.	468.9	3180.1	*	1	1700	205	101.	397.6	3177.8
1	0025		6	0.	.0	3161.0	*	1	0845	106	108.	468.3	3180.1	*	1	1705	206	101.	396.9	3177.8
1	0030		7	0.	.0	3161.0	*	1	0850	107	108.	467.7	3180.0	*	1	1710	207	101.	396.2	3177.8
1	0035		8	0.	.0	3161.0	*	1	0855	108	108.	467.1	3180.0	*	1	1715	208	101.	395.5	3177.7
1	0040		9	0.	.0	3161.0	*	1	0900	109	108.	466.5	3180.0	*	1	1720	209	101.	394.8	3177.7
1	0045		10	0.	.0	3161.0	*	1	0905	110	108.	465.8	3180.0	*	1	1725	210	101.	394.1	3177.7
1	0050		11	0.	.0	3161.0	*	1	0910	111	108.	465.1	3180.0	*	1	1730	211	101.	393.4	3177.7
1	0055		12	0.	.0	3161.0	*	1	0915	112	108.	464.5	3179.9	*	1	1735	212	101.	392.8	3177.7
1	0100		13	0.	.0	3161.0	*	1	0920	113	108.	463.8	3179.9	*	1	1740	213	101.	392.1	3177.6
1	0105		14	0.	.0	3161.0	*	1	0925	114	108.	463.0	3179.9	*	1	1745	214	101.	391.4	3177.6
1	0110		15	0.	.0	3161.0	*	1	0930	115	108.	462.3	3179.9	*	1	1750	215	101.	390.7	3177.6
1	0115		16	0.	.0	3161.0	*	1	0935	116	108.	461.6	3179.9	*	1	1755	216	101.	390.0	3177.6
1	0120		17	0.	.0	3161.0	*	1	0940	117	107.	460.9	3179.8	*	1	1800	217	101.	389.3	3177.6
1	0125		18	0.	.0	3161.0	*	1	0945	118	107.	460.2	3179.8	*	1	1805	218	101.	388.6	3177.5
1	0130		19	0.	.0	3161.0	*	1	0950	119	107.	459.4	3179.8	*	1	1810	219	101.	387.9	3177.5
1	0135		20	0.	.0	3161.0	*	1	0955	120	107.	458.7	3179.8	*	1	1815	220	100.	387.2	3177.5
1	0140		21	0.	.0	3161.0	*	1	1000	121	107.	458.0	3179.7	*	1	1820	221	100.	386.5	3177.5
1	0145		22	0.	.0	3161.0	*	1	1005	122	107.	457.2	3179.7	*	1	1825	222	100.	385.8	3177.4
1	0150		23	0.	.0	3161.0	*	1	1010	123	107.	456.5	3179.7	*	1	1830	223	100.	385.1	3177.4
1	0155		24	0.	.0	3161.0	*	1	1015	124	107.	455.8	3179.7	*	1	1835	224	100.	384.4	3177.4
1	0200		25	0.	.0	3161.0	*	1	1020	125	107.	455.0	3179.6	*	1	1840	225	100.	383.8	3177.4
1	0205		26	0.	.0	3161.0	*	1	1025	126	107.	454.3	3179.6	*	1	1845	226	100.	383.1	3177.4
1	0210		27	0.	.0	3161.0	*	1	1030	127	107.	453.6	3179.6	*	1	1850	227	100.	382.4	3177.3
1	0215		28	0.	.0	3161.0	*	1	1035	128	107.	452.8	3179.6	*	1	1855	228	100.	381.7	3177.3
1	0220		29	0.	.1	3161.0	*	1	1040	129	107.	452.1	3179.6	*	1	1900	229	100.	381.0	3177.3
1	0225		30	0.	.1	3161.0	*	1	1045	130	107.	451.3	3179.5	*	1	1905	230	100.	380.3	3177.3
1	0230		31	0.	.1	3161.0	*	1	1050	131	107.	450.6	3179.5	*	1	1910	231	100.	379.6	3177.2
1	0235		32	0.	.1	3161.0	*	1	1055	132	106.	449.9	3179.5	*	1	1915	232	100.	378.9	3177.2
1	0240		33	0.	.1	3161.0	*	1	1100	133	106.	449.1	3179.5	*	1	1920	233	100.	378.2	3177.2
1	0245		34	0.	.2	3161.0	*	1	1105	134	106.	448.4	3179.4	*	1	1925	234	100.	377.6	3177.2
1	0250		35	0.	.2	3161.0	*	1	1110	135	106.	447.7	3179.4	*	1	1930	235	99.	376.9	3177.2
1	0255		36	0.	.2	3161.0	*	1	1115	136	106.	447.0	3179.4	*	1	1935	236	99.	376.2	3177.1
1	0300		37	0.	.3	3161.0	*	1	1120	137	106.	446.2	3179.4	*	1	1940	237	99.	375.5	3177.1
1	0305		38	0.	.4	3161.0	*	1	1125	138	106.	445.5	3179.3	*	1	1945	238	99.	374.8	3177.1
1	0310		39	1.	.5	3161.1	*	1	1130	139	106.	444.8	3179.3	*	1	1950	239	99.	374.1	3177.1
1	0315		40	1.	.8	3161.1	*	1	1135	140	106.	444.0	3179.3	*	1	1955	240	99.	373.5	3177.0
1	0320		41	1.	1.1	3161.1	*	1	1140	141	106.	443.3	3179.3	*	1	2000	241	99.	372.8	3177.0
1	0325		42	2.	1.6	3161.2	*	1	1145	142	106.	442.6	3179.2	*	1	2005	242	99.	372.1	3177.0
1	0330		43	3.	2.4	3161.3	*	1	1150	143	106.	441.8	3179.2	*	1	2010	243	99.	371.4	3177.0
1	0335		44	4.	3.7	3161.4	*	1	1155	144	106.	441.1	3179.2	*	1	2015	244	99.	370.7	3177.0
1	0340		45	6.	5.3	3161.6	*	1	1200	145	106.	440.4	3179.2	*	1	2020	245	99.	370.1	3176.9
1	0345		46	8.	7.3	3161.8	*	1	1205	146	105.	439.7	3179.2	*	1	2025	246	99.	369.4	3176.9
1	0350		47	10.	9.7	3162.0	*	1	1210	147	105.	438.9	3179.1	*	1	2030	247	99.	368.7	3176.9
1	0355		48	12.	12.5	3162.2	*	1	1215	148	105.	438.2	3179.1	*	1	2035	248	98.	368.0	3176.9
1	0400		49	13.	16.0	3162.4	*	1	1220	149	105.	437.5	3179.1	*	1	2040	249	98.	367.3	3176.8
1	0405		50	15.	20.2	3162.6	*	1	1225	150	105.	436.8	3179.1	*	1	2045	250	98.	366.7	3176.8
1	0410		51	18.	25.2	3162.8	*	1	1230	151	105.	436.0	3179.0	*	1	2050	251	98.	366.0	3176.8
1	0415		52	21.	31.1	3163.1	*	1	1235	152	105.	435.3	3179.0	*	1	2055	252	98.	365.3	3176.8
1	0420		53	24.	38.0	3163.5	*	1	1240	153	105.	434.6	3179.0	*	1	2100	253	98.	364.6	3176.7
1	0425		54	28.	46.1	3163.9	*	1	1245	154	105.	433.9	3179.0	*	1	2105	254	98.	364.0	3176.7
1	0430		55	32.	55.4	3164.4	*	1	1250	155	105.	433.1	3178.9	*	1	2110	255	98.	363.3	3176.7
1	0435		56	37.	66.0	3164.9	*	1	1255	156	105.	432.4	3178.9	*	1	2115	256	98.	362.6	3176.7
1	0440		57	43.	77.9	3165.5	*	1	1300	157	105.	431.7	3178.9	*	1	2120	257	98.	361.9	3176.6
1	0445		58	49.	91.2	3166.2	*	1	1305	158	105.	431.0	3178.9	*	1	2125	258	98.	361.3	3176.6
1	0450		59	56.	105.7	3166.9	*	1	1310	159	105.	430.3	3178.9	*	1	2130	259	97.	360.6	3176.6
1	0455		60	60.	121.1	3167.6	*	1	1315	160	104.	429.5	3178.8	*	1	2135	260	97.	359.9	3176.6
1	0500		61	63.	137.2	3168.2	*	1	1320	161	104.	428.8	3178.8	*	1	2140	261	97.	359.3	3176.5
1	0505		62	66.	153.7	3168.9	*	1	1325	162	104.	428.1	3178.8	*	1	2145	262	97.	358.6	3176.5
1	0510		63	69.	170.3	3169.6	*	1	1330	163	104.	427.4	3178.8	*	1	2150	263	97.	357.9	3176.5
1	0515		64	72.	186.8	3170.2	*	1	1335	164	104.	426.7	3178.7	*	1	2155	264	97.	357.2	3176.5
1	0520		65	75.	203.2	3170.9	*	1	1340	165	104.	426.0	3178.7	*	1	2200	265	97.	356.6	3176.5
1	0525		66	78.	219.2	3171.5	*	1	1345	166	104.	425.2	3178.7	*	1	2205	266	97.	355.9	3176.4
1	0530		67	81.	235.0	3172.1	*	1	1350	167	104.	424.5	3178.7	*	1	2210	267	97.	355.2	3176.4
1	0535		68	83.	250.5	3172.7	*	1	1355	168	104.	423.8	3178.6	*	1	2215	268	97.	354.6	3176.4
1	0540		69	85.	265.7	3173.2	*	1	1400	169	104.	423.1	3178.6	*	1	2220	269	97.	353.9	3176.4
1	0545		70	87.	280.7	3173.8	*	1	1405	170	104.	422.4	3178.6	*	1	2225	270	96.	353.2	3176.3
1	0550		71	89.	295.5	3174.3	*	1	1410	171	104.	421.7	3178.6	*	1	2230	271	96.	352.6	3176.3
1	0555		72	91.	310.2	3174.8	*	1	1415	172	104.	420.9	3178.6	*	1	2235	272	96.	351.9	3176.3
1	0600		73	93.	324.6	3175.3	*	1	1420	173	104.	420.2	3178.5	*	1	2240	273	96.	351.3	3176.3
1	0605		74	95.	338.9	3175.8	*	1	1425	174	104.	419.5	3178.5	*	1	2245	274	96.	350.6	3176.2
1	0610		75	96.	352.7	3176.3	*	1	1430	175	103.	418.8	3178.5	*	1	2250	275	96.	349.9	3176.2
1	0615		76	98.	366.1	3176.8	*	1	1435	176	103.	418.1	3178.5	*	1	2255	276	96.	349.3	3176.2
1	0620		77	100.	378.8	3177.2	*	1	1440	177	103.	417.4	3178.4	*	1	2300	277	96.	348.6	3176.2
1	0625		78	101.	390.7	3177.6	*	1	1445	178	103.	416.7	3178.4	*	1	2305	278	96.	348.0	3176.1
1	0630		79	102.	401.6	3177.9	*	1	1450	179	103.	416.0	3178.4	*	1	2310	279	96.	347.3	3176.1
1	0635		80	103.	411.6	3178.3	*	1	1455	180	103.	415.2	3178.4	*	1	2315	280	96.	346.6	3176.1
1	0640		81	104.	420.6	3178.5	*	1	1500	181	103.	414.5	3178.4	*	1	2320	281	95.	346.0	3176.1
1	0645		82	104.	428.6	3178.8	*	1	1505	182	103.	413.8	3178.3	*	1	2325	282	95.	345.3	3176.1
1	0650		83	105.	435.6	3179.0	*	1	1510	183	103.	413.1	3178.3	*	1	2330	283	95.	344.7	3176.0
1	0655		84	106.	441.7	3179.2	*	1	1515	184	103.	412.4	3178.3	*	1	2335	284	95.	344.0	3176.0
1	0700		85	106.	447.1	3179.4	*	1	1520	185	103.	411.7	3178.3	*	1	2340	285	95.	343.3	3176.0
1	0705		86	107.	451.6	3179.5	*	1	1525	186	103.	411.0	3178.2	*	1	2345	286	95.	342.7	3176.0
1	0710		87	107.	455.6	3179.7	*	1	1530	187	103.	410.3	3178.2	*	1	2350	287	95.	342.0	3175.9
1	0715		88	107.	458.9	3179.8	*	1	1535	188	103.	409.6	3178.2	*	1	2355	288	95.	341.4	3175.9
1	0720		89	108.	461.7	3179.9	*	1	1540	189	103.	408.9	3178.2	*	2	0000	289	95.	340.7	3175.9
1	0725		90	108.	464.1	3179.9	*	1	1545	190	102.	408.2	3178.2	*	2	0005	290	95.	340.1	3175.9
1	0730		91	108.	466.0	3180.0	*	1	1550	191	102.	407.5	3178.1	*	2	0010	291	95.	339.4	3175.8
1	0735		92	108.	467.5	3180.0	*	1	1555	192	102.	406.8	3178.1	*	2	0015	292	95.	338.8	3175.8
1	0740		93	108.	468.8	3180.1	*	1	1600	193	102.	406.1	3178.1	*	2	0020	293	94.	338.1	3175.8
1	0745		94	108.	469.7	3180.1	*	1	1605	194	102.	405.3	3178.1	*	2	0025	294	94.	337.5	3175.8
1	0750		95	108.	470.4	3180.1	*	1	1610	195	102.	404.6	3178.0	*	2	0030	295	94.	336.8	3175.8
1	0755		96	108.	470.8	3180.1	*	1	1615	196	102.	403.9	3178.0	*	2	0035	296	94.	336.2	3175.7
1	0800		97	108.	471.1	3180.2	*	1	1620	197	102.	403.2	3178.0	*	2	0040	297	94.	335.5	3175.7
1	0805		98	108.	471.1	3180.2	*	1	1625	198	102.	402.5	3178.0	*	2	0045	298	94.	334.9	3175.7
1	0810		99	108.	471.1	3180.2	*	1	1630	199	102.	401.8	3178.0	*	2	0050	299	94.	334.2	3175.7
1	0815	100		108.	470.9	3180.2	*	1	1635	200	102.	401.1	3177.9	*	2	0055	300	94.	333.6	3175.6

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 108.	8.08	107.	85.	82.	82.
		(INCHES) .018	.058	.058	.058
		(AC-FT) 53.	169.	169.	169.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR

+ (AC-FT)	(HR)				
471.	8.08	455.	332.	320.	320.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3180.16	8.08	3179.65	3175.08	3174.56	3174.56

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .73

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	3161.0	1		0820	101	102.	407.6	3178.1	1		1640	201	95.	341.4	3175.9
1		0005	2	0.	.0	3161.0	1		0825	102	102.	407.2	3178.1	1		1645	202	95.	340.7	3175.9
1		0010	3	0.	.0	3161.0	1		0830	103	102.	406.8	3178.1	1		1650	203	95.	340.1	3175.9
1		0015	4	0.	.0	3161.0	1		0835	104	102.	406.4	3178.1	1		1655	204	95.	339.4	3175.8
1		0020	5	0.	.0	3161.0	1		0840	105	102.	405.9	3178.1	1		1700	205	95.	338.8	3175.8
1		0025	6	0.	.0	3161.0	1		0845	106	102.	405.3	3178.1	1		1705	206	94.	338.1	3175.8
1		0030	7	0.	.0	3161.0	1		0850	107	102.	404.8	3178.0	1		1710	207	94.	337.5	3175.8
1		0035	8	0.	.0	3161.0	1		0855	108	102.	404.2	3178.0	1		1715	208	94.	336.8	3175.8
1		0040	9	0.	.0	3161.0	1		0900	109	102.	403.6	3178.0	1		1720	209	94.	336.2	3175.7
1		0045	10	0.	.0	3161.0	1		0905	110	102.	402.9	3178.0	1		1725	210	94.	335.5	3175.7
1		0050	11	0.	.0	3161.0	1		0910	111	102.	402.3	3178.0	1		1730	211	94.	334.9	3175.7
1		0055	12	0.	.0	3161.0	1		0915	112	102.	401.7	3177.9	1		1735	212	94.	334.2	3175.7
1		0100	13	0.	.0	3161.0	1		0920	113	102.	401.0	3177.9	1		1740	213	94.	333.6	3175.6
1		0105	14	0.	.0	3161.0	1		0925	114	102.	400.3	3177.9	1		1745	214	94.	332.9	3175.6
1		0110	15	0.	.0	3161.0	1		0930	115	102.	399.6	3177.9	1		1750	215	94.	332.3	3175.6
1		0115	16	0.	.0	3161.0	1		0935	116	102.	399.0	3177.9	1		1755	216	94.	331.6	3175.6
1		0120	17	0.	.0	3161.0	1		0940	117	102.	398.3	3177.8	1		1800	217	93.	331.0	3175.5
1		0125	18	0.	.0	3161.0	1		0945	118	101.	397.6	3177.8	1		1805	218	93.	330.4	3175.5
1		0130	19	0.	.0	3161.0	1		0950	119	101.	396.9	3177.8	1		1810	219	93.	329.7	3175.5
1		0135	20	0.	.0	3161.0	1		0955	120	101.	396.2	3177.8	1		1815	220	93.	329.1	3175.5
1		0140	21	0.	.0	3161.0	1		1000	121	101.	395.5	3177.7	1		1820	221	93.	328.4	3175.5
1		0145	22	0.	.0	3161.0	1		1005	122	101.	394.8	3177.7	1		1825	222	93.	327.8	3175.4
1		0150	23	0.	.0	3161.0	1		1010	123	101.	394.1	3177.7	1		1830	223	93.	327.1	3175.4
1		0155	24	0.	.0	3161.0	1		1015	124	101.	393.4	3177.7	1		1835	224	93.	326.5	3175.4
1		0200	25	0.	.0	3161.0	1		1020	125	101.	392.7	3177.7	1		1840	225	93.	325.9	3175.4
1		0205	26	0.	.0	3161.0	1		1025	126	101.	392.0	3177.6	1		1845	226	93.	325.2	3175.3
1		0210	27	0.	.0	3161.0	1		1030	127	101.	391.4	3177.6	1		1850	227	93.	324.6	3175.3
1		0215	28	0.	.0	3161.0	1		1035	128	101.	390.7	3177.6	1		1855	228	93.	324.0	3175.3
1		0220	29	0.	.0	3161.0	1		1040	129	101.	390.0	3177.6	1		1900	229	92.	323.3	3175.3
1		0225	30	0.	.0	3161.0	1		1045	130	101.	389.3	3177.6	1		1905	230	92.	322.7	3175.3
1		0230	31	0.	.1	3161.0	1		1050	131	101.	388.6	3177.5	1		1910	231	92.	322.0	3175.2
1		0235	32	0.	.1	3161.0	1		1055	132	101.	387.9	3177.5	1		1915	232	92.	321.4	3175.2
1		0240	33	0.	.1	3161.0	1		1100	133	100.	387.2	3177.5	1		1920	233	92.	320.8	3175.2
1		0245	34	0.	.1	3161.0	1		1105	134	100.	386.5	3177.5	1		1925	234	92.	320.1	3175.2
1		0250	35	0.	.1	3161.0	1		1110	135	100.	385.8	3177.4	1		1930	235	92.	319.5	3175.1
1		0255	36	0.	.1	3161.0	1		1115	136	100.	385.1	3177.4	1		1935	236	92.	318.9	3175.1
1		0300	37	0.	.2	3161.0	1		1120	137	100.	384.4	3177.4	1		1940	237	92.	318.2	3175.1
1		0305	38	0.	.3	3161.0	1		1125	138	100.	383.7	3177.4	1		1945	238	92.	317.6	3175.1
1		0310	39	0.	.4	3161.0	1		1130	139	100.	383.1	3177.4	1		1950	239	92.	317.0	3175.0
1		0315	40	1.	.6	3161.1	1		1135	140	100.	382.4	3177.3	1		1955	240	92.	316.4	3175.0
1		0320	41	1.	.8	3161.1	1		1140	141	100.	381.7	3177.3	1		2000	241	91.	315.7	3175.0
1		0325	42	1.	1.2	3161.1	1		1145	142	100.	381.0	3177.3	1		2005	242	91.	315.1	3175.0
1		0330	43	2.	1.9	3161.2	1		1150	143	100.	380.3	3177.3	1		2010	243	91.	314.5	3175.0
1		0335	44	3.	2.8	3161.3	1		1155	144	100.	379.6	3177.2	1		2015	244	91.	313.8	3174.9
1		0340	45	5.	4.1	3161.5	1		1200	145	100.	378.9	3177.2	1		2020	245	91.	313.2	3174.9
1		0345	46	6.	5.7	3161.6	1		1205	146	100.	378.2	3177.2	1		2025	246	91.	312.6	3174.9
1		0350	47	8.	7.6	3161.8	1		1210	147	100.	377.6	3177.2	1		2030	247	91.	312.0	3174.9
1		0355	48	10.	9.8	3162.0	1		1215	148	99.	376.9	3177.2	1		2035	248	91.	311.3	3174.8
1		0400	49	12.	12.6	3162.2	1		1220	149	99.	376.2	3177.1	1		2040	249	91.	310.7	3174.8
1		0405	50	13.	15.9	3162.4	1		1225	150	99.	375.5	3177.1	1		2045	250	91.	310.1	3174.8
1		0410	51	15.	20.0	3162.6	1		1230	151	99.	374.8	3177.1	1		2050	251	91.	309.5	3174.8
1		0415	52	18.	24.8	3162.8	1		1235	152	99.	374.1	3177.1	1		2055	252	90.	308.8	3174.8
1		0420	53	20.	30.5	3163.1	1		1240	153	99.	373.5	3177.0	1		2100	253	90.	308.2	3174.7
1		0425	54	23.	37.1	3163.4	1		1245	154	99.	372.8	3177.0	1		2105	254	90.	307.6	3174.7
1		0430	55	27.	44.8	3163.8	1		1250	155	99.	372.1	3177.0	1		2110	255	90.	307.0	3174.7
1		0435	56	31.	53.7	3164.3	1		1255	156	99.	371.4	3177.0	1		2115	256	90.	306.3	3174.7
1		0440	57	36.	63.7	3164.8	1		1300	157	99.	370.7	3177.0	1		2120	257	90.	305.7	3174.6
1		0445	58	42.	74.9	3165.4	1		1305	158	99.	370.0	3176.9	1		2125	258	90.	305.1	3174.6
1		0450	59	47.	87.2	3166.0	1		1310	159	99.	369.4	3176.9	1		2130	259	90.	304.5	3174.6
1		0455	60	54.	100.3	3166.7	1		1315	160	99.	368.7	3176.9	1		2135	260	90.	303.9	3174.6
1		0500	61	58.	114.1	3167.3	1		1320	161	98.	368.0	3176.9	1		2140	261	90.	303.2	3174.6
1		0505	62	61.	128.3	3167.9	1		1325	162	98.	367.3	3176.8	1		2145	262	90.	302.6	3174.5
1		0510	63	64.	142.6	3168.4	1		1330	163	98.	366.7	3176.8	1		2150	263	90.	302.0	3174.5
1		0515	64	66.	156.9	3169.0	1		1335	164	98.	366.0	3176.8	1		2155	264	89.	301.4	3174.5
1		0520	65	69.	171.0	3169.6	1		1340	165	98.	365.3	3176.8	1		2200	265	89.	300.8	3174.5
1		0525	66	71.	185.0	3170.1	1		1345	166	98.	364.6	3176.7	1		2205	266	89.	300.2	3174.5
1		0530	67	74.	198.8	3170.7	1		1350	167	98.	363.9	3176.7	1		2210	267	89.	299.5	3174.4
1		0535	68	77.	212.4	3171.2	1		1355	168	98.	363.3	3176.7	1		2215	268	89.	298.9	3174.4
1		0540	69	79.	225.7	3171.8	1		1400	169	98.	362.6	3176.7	1		2220	269	89.	298.3	3174.4
1		0545	70	81.	238.9	3172.3	1		1405	170	98.	361.9	3176.6	1		2225	270	89.	297.7	3174.4
1		0550	71	83.	252.0	3172.7	1		1410	171	98.	361.3	3176.6	1		2230	271	89.	297.1	3174.3
1		0555	72	85.	265.0	3173.2	1		1415	172	97.	360.6	3176.6	1		2235	272	89.	296.5	3174.3
1		0600	73	86.	277.8	3173.7	1		1420	173	97.	359.9	3176.6	1		2240	273	89.	295.9	3174.3
1		0605	74	88.	290.4	3174.1	1		1425	174	97.	359.2	3176.5	1		2245	274	89.	295.3	3174.3
1		0610	75	90.	302.8	3174.5	1		1430	175	97.	358.6	3176.5	1		2250	275	89.	294.6	3174.3
1		0615	76	91.	314.7	3175.0	1		1435	176	97.	357.9	3176.5	1		2255	276	88.	294.0	3174.2
1		0620	77	93.	326.0	3175.4	1		1440	177	97.	357.2	3176.5	1		2300	277	88.	293.4	3174.2
1		0625	78	94.	336.6	3175.7	1		1445	178	97.	356.6	3176.5	1		2305	278	88.	292.8	3174.2
1		0630	79	96.	346.4	3176.1	1		1450	179	97.	355.9	3176.4	1		2310	279	88.	292.2	3174.2
1		0635	80	97.	355.3	3176.4	1		1455	180	97.	355.2	3176.4	1		2315	280	88.	291.6	3174.1
1		0640	81	98.	363.3	3176.7	1		1500	181	97.	354.6	3176.4	1		2320	281	88.	291.0	3174.1
1		0645	82	99.	370.4	3176.9	1		1505	182	97.	353.9	3176.4	1		2325	282	88.	290.4	3174.1
1		0650	83	99.	376.7	3177.1	1		1510	183	96.	353.2	3176.3	1		2330	283	88.	289.8	3174.1
1		0655	84	100.	382.2	3177.3	1		1515	184	96.	352.6	3176.3	1		2335	284	88.	289.2	3174.1
1		0700	85	100.	386.9	3177.5	1		1520	185	96.	351.9	3176.3	1		2340	285	88.	288.6	3174.0
1		0705	86	101.	391.0	3177.6	1		1525	186	96.	351.2	3176.3	1		2345	286	88.	288.0	3174.0
1		0710	87	101.	394.5	3177.7	1		1530	187	96.	350.6	3176.2	1		2350	287	88.	287.4	3174.0
1		0715	88	101.	397.4	3177.8	1		1535	188	96.	349.9	3176.2	1		2355	288	88.	286.8	3174.0
1		0720	89	102.	399.9	3177.9	1		1540	189	96.	349.3	3176.2	2		0000	289	87.	286.2	3174.0
1		0725	90	102.	402.0	3178.0	1		1545	190	96.	348.6	3176.2	2		0005	290	87.	285.6	3173.9
1		0730	91	102.	403.7	3178.0	1		1550	191	96.	347.9	3176.1	2		0010	291	87.	285.0	3173.9
1		0735	92	102.	405.1	3178.1	1		1555	192	96.	347.3	3176.1	2		0015	292	87.	284.4	3173.9
1		0740	93	102.	406.1	3178.1	1		1600	193	96.	346.6	3176.1	2		0020	293	87.	283.8	3173.9
1		0745	94	102.	406.9	3178.1	1		1605	194	95.	346.0	3176.1	2		0025	294	87.	283.2	3173.8
1		0750	95	102.	407.5	3178.1	1		1610	195	95.	345.3	3176.1	2		0030	295	87.	282.6	3173.8
1		0755	96	102.	407.9	3178.1	1		1615	196	95.	344.7	3176.0	2		0035	296	87.	282.0	3173.8
1		0800	97	102.	408.1	3178.1	1		1620	197	95.	344.0	3176.0	2		0040	297	87.	281.4	3173.8
1		0805	98	102.	408.1	3178.2	1		1625	198	95.	343.3	3176.0	2		0045	298	87.	280.8	3173.8
1		0810	99	102.	408.0	3178.1	1		1630	199	95.	342.7	3176.0	2		0050	299	87.	280.2	3173.7
1		0815	100	102.	407.9	3178.1	1		1635	200	95.	342.0	3175.9	2		0055	300	87.	279.6	3173.7

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
	(CFS)				
+ 102.	8.08	101.	80.	77.	77.
	(INCHES)	.017	.054	.054	.054
	(AC-FT)	50.	158.	158.	158.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
408.	8.08	393.	284.	273.	273.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3178.15	8.08	3177.67	3173.44	3172.98	3172.98

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .69

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	3161.0	1		0820	101	98.	362.6	3176.7	1		1640	201	89.	300.0	3174.4
1		0005	2	0.	.0	3161.0	1		0825	102	98.	362.3	3176.7	1		1645	202	89.	299.4	3174.4
1		0010	3	0.	.0	3161.0	1		0830	103	98.	361.9	3176.6	1		1650	203	89.	298.8	3174.4
1		0015	4	0.	.0	3161.0	1		0835	104	98.	361.4	3176.6	1		1655	204	89.	298.1	3174.4
1		0020	5	0.	.0	3161.0	1		0840	105	98.	360.9	3176.6	1		1700	205	89.	297.5	3174.4
1		0025	6	0.	.0	3161.0	1		0845	106	97.	360.4	3176.6	1		1705	206	89.	296.9	3174.3
1		0030	7	0.	.0	3161.0	1		0850	107	97.	359.9	3176.6	1		1710	207	89.	296.3	3174.3
1		0035	8	0.	.0	3161.0	1		0855	108	97.	359.3	3176.5	1		1715	208	89.	295.7	3174.3
1		0040	9	0.	.0	3161.0	1		0900	109	97.	358.7	3176.5	1		1720	209	89.	295.1	3174.3
1		0045	10	0.	.0	3161.0	1		0905	110	97.	358.1	3176.5	1		1725	210	89.	294.5	3174.3
1		0050	11	0.	.0	3161.0	1		0910	111	97.	357.5	3176.5	1		1730	211	88.	293.9	3174.2
1		0055	12	0.	.0	3161.0	1		0915	112	97.	356.9	3176.5	1		1735	212	88.	293.3	3174.2
1		0100	13	0.	.0	3161.0	1		0920	113	97.	356.3	3176.4	1		1740	213	88.	292.6	3174.2
1		0105	14	0.	.0	3161.0	1		0925	114	97.	355.6	3176.4	1		1745	214	88.	292.0	3174.2
1		0110	15	0.	.0	3161.0	1		0930	115	97.	355.0	3176.4	1		1750	215	88.	291.4	3174.1
1		0115	16	0.	.0	3161.0	1		0935	116	97.	354.3	3176.4	1		1755	216	88.	290.8	3174.1
1		0120	17	0.	.0	3161.0	1		0940	117	97.	353.7	3176.3	1		1800	217	88.	290.2	3174.1
1		0125	18	0.	.0	3161.0	1		0945	118	96.	353.0	3176.3	1		1805	218	88.	289.6	3174.1
1		0130	19	0.	.0	3161.0	1		0950	119	96.	352.4	3176.3	1		1810	219	88.	289.0	3174.1
1		0135	20	0.	.0	3161.0	1		0955	120	96.	351.7	3176.3	1		1815	220	88.	288.4	3174.0
1		0140	21	0.	.0	3161.0	1		1000	121	96.	351.0	3176.3	1		1820	221	88.	287.8	3174.0
1		0145	22	0.	.0	3161.0	1		1005	122	96.	350.4	3176.2	1		1825	222	88.	287.2	3174.0
1		0150	23	0.	.0	3161.0	1		1010	123	96.	349.7	3176.2	1		1830	223	87.	286.6	3174.0
1		0155	24	0.	.0	3161.0	1		1015	124	96.	349.1	3176.2	1		1835	224	87.	286.0	3173.9
1		0200	25	0.	.0	3161.0	1		1020	125	96.	348.4	3176.2	1		1840	225	87.	285.4	3173.9
1		0205	26	0.	.0	3161.0	1		1025	126	96.	347.7	3176.1	1		1845	226	87.	284.8	3173.9
1		0210	27	0.	.0	3161.0	1		1030	127	96.	347.1	3176.1	1		1850	227	87.	284.2	3173.9
1		0215	28	0.	.0	3161.0	1		1035	128	96.	346.4	3176.1	1		1855	228	87.	283.6	3173.9
1		0220	29	0.	.0	3161.0	1		1040	129	95.	345.8	3176.1	1		1900	229	87.	283.0	3173.8
1		0225	30	0.	.0	3161.0	1		1045	130	95.	345.1	3176.0	1		1905	230	87.	282.4	3173.8
1		0230	31	0.	.0	3161.0	1		1050	131	95.	344.5	3176.0	1		1910	231	87.	281.8	3173.8
1		0235	32	0.	.0	3161.0	1		1055	132	95.	343.8	3176.0	1		1915	232	87.	281.2	3173.8
1		0240	33	0.	.0	3161.0	1		1100	133	95.	343.2	3176.0	1		1920	233	87.	280.6	3173.8
1		0245	34	0.	.1	3161.0	1		1105	134	95.	342.5	3176.0	1		1925	234	87.	280.0	3173.7
1		0250	35	0.	.1	3161.0	1		1110	135	95.	341.8	3175.9	1		1930	235	87.	279.4	3173.7

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1	0100	13	0.	.0	3161.0	*	1	0920	113	65.	150.2	3168.7	*	1	1740	213	57.	108.3	3167.1
1	0105	14	0.	.0	3161.0	*	1	0925	114	65.	149.8	3168.7	*	1	1745	214	57.	107.9	3167.0
1	0110	15	0.	.0	3161.0	*	1	0930	115	65.	149.4	3168.7	*	1	1750	215	57.	107.5	3167.0
1	0115	16	0.	.0	3161.0	*	1	0935	116	65.	148.9	3168.7	*	1	1755	216	57.	107.1	3167.0
1	0120	17	0.	.0	3161.0	*	1	0940	117	65.	148.5	3168.7	*	1	1800	217	57.	106.7	3167.0
1	0125	18	0.	.0	3161.0	*	1	0945	118	65.	148.1	3168.7	*	1	1805	218	57.	106.3	3167.0
1	0130	19	0.	.0	3161.0	*	1	0950	119	65.	147.6	3168.6	*	1	1810	219	56.	105.9	3166.9
1	0135	20	0.	.0	3161.0	*	1	0955	120	64.	147.2	3168.6	*	1	1815	220	56.	105.5	3166.9
1	0140	21	0.	.0	3161.0	*	1	1000	121	64.	146.7	3168.6	*	1	1820	221	56.	105.1	3166.9
1	0145	22	0.	.0	3161.0	*	1	1005	122	64.	146.3	3168.6	*	1	1825	222	56.	104.7	3166.9
1	0150	23	0.	.0	3161.0	*	1	1010	123	64.	145.9	3168.6	*	1	1830	223	56.	104.4	3166.9
1	0155	24	0.	.0	3161.0	*	1	1015	124	64.	145.4	3168.5	*	1	1835	224	56.	104.0	3166.8
1	0200	25	0.	.0	3161.0	*	1	1020	125	64.	145.0	3168.5	*	1	1840	225	55.	103.6	3166.8
1	0205	26	0.	.0	3161.0	*	1	1025	126	64.	144.5	3168.5	*	1	1845	226	55.	103.2	3166.8
1	0210	27	0.	.0	3161.0	*	1	1030	127	64.	144.1	3168.5	*	1	1850	227	55.	102.8	3166.8
1	0215	28	0.	.0	3161.0	*	1	1035	128	64.	143.7	3168.5	*	1	1855	228	55.	102.5	3166.8
1	0220	29	0.	.0	3161.0	*	1	1040	129	64.	143.2	3168.5	*	1	1900	229	55.	102.1	3166.7
1	0225	30	0.	.0	3161.0	*	1	1045	130	64.	142.8	3168.4	*	1	1905	230	54.	101.7	3166.7
1	0230	31	0.	.0	3161.0	*	1	1050	131	64.	142.3	3168.4	*	1	1910	231	54.	101.3	3166.7
1	0235	32	0.	.0	3161.0	*	1	1055	132	63.	141.9	3168.4	*	1	1915	232	54.	101.0	3166.7
1	0240	33	0.	.0	3161.0	*	1	1100	133	63.	141.5	3168.4	*	1	1920	233	54.	100.6	3166.7
1	0245	34	0.	.0	3161.0	*	1	1105	134	63.	141.0	3168.4	*	1	1925	234	54.	100.2	3166.7
1	0250	35	0.	.0	3161.0	*	1	1110	135	63.	140.6	3168.4	*	1	1930	235	54.	99.8	3166.6
1	0255	36	0.	.0	3161.0	*	1	1115	136	63.	140.2	3168.3	*	1	1935	236	53.	99.5	3166.6
1	0300	37	0.	.0	3161.0	*	1	1120	137	63.	139.7	3168.3	*	1	1940	237	53.	99.1	3166.6
1	0305	38	0.	.0	3161.0	*	1	1125	138	63.	139.3	3168.3	*	1	1945	238	53.	98.7	3166.6
1	0310	39	0.	.0	3161.0	*	1	1130	139	63.	138.9	3168.3	*	1	1950	239	53.	98.4	3166.6
1	0315	40	0.	.0	3161.0	*	1	1135	140	63.	138.4	3168.3	*	1	1955	240	53.	98.0	3166.5
1	0320	41	0.	.1	3161.0	*	1	1140	141	63.	138.0	3168.2	*	1	2000	241	53.	97.7	3166.5
1	0325	42	0.	.2	3161.0	*	1	1145	142	63.	137.6	3168.2	*	1	2005	242	52.	97.3	3166.5
1	0330	43	0.	.4	3161.0	*	1	1150	143	63.	137.1	3168.2	*	1	2010	243	52.	96.9	3166.5
1	0335	44	1.	.6	3161.1	*	1	1155	144	63.	136.7	3168.2	*	1	2015	244	52.	96.6	3166.5
1	0340	45	1.	1.0	3161.1	*	1	1200	145	62.	136.3	3168.2	*	1	2020	245	52.	96.2	3166.4
1	0345	46	2.	1.4	3161.2	*	1	1205	146	62.	135.8	3168.2	*	1	2025	246	52.	95.9	3166.4
1	0350	47	2.	1.7	3161.2	*	1	1210	147	62.	135.4	3168.1	*	1	2030	247	51.	95.5	3166.4
1	0355	48	2.	2.1	3161.2	*	1	1215	148	62.	135.0	3168.1	*	1	2035	248	51.	95.2	3166.4
1	0400	49	3.	2.7	3161.3	*	1	1220	149	62.	134.5	3168.1	*	1	2040	249	51.	94.8	3166.4
1	0405	50	4.	3.4	3161.4	*	1	1225	150	62.	134.1	3168.1	*	1	2045	250	51.	94.4	3166.4
1	0410	51	5.	4.3	3161.5	*	1	1230	151	62.	133.7	3168.1	*	1	2050	251	51.	94.1	3166.3
1	0415	52	6.	5.4	3161.6	*	1	1235	152	62.	133.3	3168.1	*	1	2055	252	51.	93.7	3166.3
1	0420	53	8.	6.8	3161.8	*	1	1240	153	62.	132.8	3168.0	*	1	2100	253	50.	93.4	3166.3
1	0425	54	9.	8.4	3161.9	*	1	1245	154	62.	132.4	3168.0	*	1	2105	254	50.	93.1	3166.3
1	0430	55	11.	10.4	3162.1	*	1	1250	155	62.	132.0	3168.0	*	1	2110	255	50.	92.7	3166.3
1	0435	56	12.	12.8	3162.2	*	1	1255	156	62.	131.6	3168.0	*	1	2115	256	50.	92.4	3166.3
1	0440	57	13.	15.6	3162.3	*	1	1300	157	61.	131.1	3168.0	*	1	2120	257	50.	92.0	3166.2
1	0445	58	15.	18.9	3162.5	*	1	1305	158	61.	130.7	3168.0	*	1	2125	258	50.	91.7	3166.2
1	0450	59	17.	22.6	3162.7	*	1	1310	159	61.	130.3	3167.9	*	1	2130	259	49.	91.3	3166.2
1	0455	60	19.	26.8	3162.9	*	1	1315	160	61.	129.9	3167.9	*	1	2135	260	49.	91.0	3166.2
1	0500	61	21.	31.3	3163.1	*	1	1320	161	61.	129.5	3167.9	*	1	2140	261	49.	90.7	3166.2
1	0505	62	23.	36.1	3163.4	*	1	1325	162	61.	129.0	3167.9	*	1	2145	262	49.	90.3	3166.1
1	0510	63	25.	41.1	3163.6	*	1	1330	163	61.	128.6	3167.9	*	1	2150	263	49.	90.0	3166.1
1	0515	64	28.	46.3	3163.9	*	1	1335	164	61.	128.2	3167.9	*	1	2155	264	49.	89.6	3166.1
1	0520	65	30.	51.5	3164.2	*	1	1340	165	61.	127.8	3167.8	*	1	2200	265	49.	89.3	3166.1
1	0525	66	33.	56.8	3164.4	*	1	1345	166	61.	127.4	3167.8	*	1	2205	266	48.	89.0	3166.1
1	0530	67	36.	62.2	3164.7	*	1	1350	167	61.	126.9	3167.8	*	1	2210	267	48.	88.6	3166.1
1	0535	68	38.	67.7	3165.0	*	1	1355	168	61.	126.5	3167.8	*	1	2215	268	48.	88.3	3166.0
1	0540	69	41.	73.2	3165.3	*	1	1400	169	61.	126.1	3167.8	*	1	2220	269	48.	88.0	3166.0
1	0545	70	43.	78.7	3165.6	*	1	1405	170	60.	125.7	3167.8	*	1	2225	270	48.	87.7	3166.0
1	0550	71	46.	84.3	3165.8	*	1	1410	171	60.	125.3	3167.7	*	1	2230	271	48.	87.3	3166.0
1	0555	72	49.	90.0	3166.1	*	1	1415	172	60.	124.9	3167.7	*	1	2235	272	47.	87.0	3166.0
1	0600	73	52.	95.6	3166.4	*	1	1420	173	60.	124.4	3167.7	*	1	2240	273	47.	86.7	3166.0
1	0605	74	54.	101.3	3166.7	*	1	1425	174	60.	124.0	3167.7	*	1	2245	274	47.	86.3	3165.9
1	0610	75	57.	106.9	3167.0	*	1	1430	175	60.	123.6	3167.7	*	1	2250	275	47.	86.0	3165.9
1	0615	76	58.	112.3	3167.2	*	1	1435	176	60.	123.2	3167.7	*	1	2255	276	47.	85.7	3165.9
1	0620	77	59.	117.5	3167.4	*	1	1440	177	60.	122.8	3167.6	*	1	2300	277	47.	85.4	3165.9
1	0625	78	60.	122.4	3167.6	*	1	1445	178	60.	122.4	3167.6	*	1	2305	278	46.	85.1	3165.9
1	0630	79	61.	127.0	3167.8	*	1	1450	179	60.	122.0	3167.6	*	1	2310	279	46.	84.7	3165.9
1	0635	80	61.	131.2	3168.0	*	1	1455	180	60.	121.5	3167.6	*	1	2315	280	46.	84.4	3165.8
1	0640	81	62.	134.9	3168.1	*	1	1500	181	60.	121.1	3167.6	*	1	2320	281	46.	84.1	3165.8
1	0645	82	63.	138.3	3168.3	*	1	1505	182	60.	120.7	3167.6	*	1	2325	282	46.	83.8	3165.8
1	0650	83	63.	141.2	3168.4	*	1	1510	183	59.	120.3	3167.5	*	1	2330	283	46.	83.5	3165.8
1	0655	84	64.	143.8	3168.5	*	1	1515	184	59.	119.9	3167.5	*	1	2335	284	46.	83.2	3165.8
1	0700	85	64.	146.0	3168.6	*	1	1520	185	59.	119.5	3167.5	*	1	2340	285	45.	82.8	3165.8
1	0705	86	65.	147.9	3168.6	*	1	1525	186	59.	119.1	3167.5	*	1	2345	286	45.	82.5	3165.8
1	0710	87	65.	149.5	3168.7	*	1	1530	187	59.	118.7	3167.5	*	1	2350	287	45.	82.2	3165.7
1	0715	88	65.	150.9	3168.8	*	1	1535	188	59.	118.3	3167.5	*	1	2355	288	45.	81.9	3165.7
1	0720	89	65.	152.0	3168.8	*	1	1540	189	59.	117.9	3167.4	*	2	0000	289	45.	81.6	3165.7
1	0725	90	66.	153.0	3168.9	*	1	1545	190	59.	117.5	3167.4	*	2	0005	290	45.	81.3	3165.7
1	0730	91	66.	153.7	3168.9	*	1	1550	191	59.	117.1	3167.4	*	2	0010	291	45.	81.0	3165.7
1	0735	92	66.	154.3	3168.9	*	1	1555	192	59.	116.7	3167.4	*	2	0015	292	44.	80.7	3165.7
1	0740	93	66.	154.7	3168.9	*	1	1600	193	59.	116.2	3167.4	*	2	0020	293	44.	80.4	3165.6
1	0745	94	66.	155.0	3168.9	*	1	1605	194	59.	115.8	3167.4	*	2	0025	294	44.	80.1	3165.6
1	0750	95	66.	155.2	3168.9	*	1	1610	195	59.	115.4	3167.3	*	2	0030	295	44.	79.8	3165.6
1	0755	96	66.	155.3	3168.9	*	1	1615	196	58.	115.0	3167.3	*	2	0035	296	44.	79.5	3165.6
1	0800	97	66.	155.3	3168.9	*	1	1620	197	58.	114.6	3167.3	*	2	0040	297	44.	79.2	3165.6
1	0805	98	66.	155.2	3168.9	*	1	1625	198	58.	114.2	3167.3	*	2	0045	298	44.	78.9	3165.6
1	0810	99	66.	155.1	3168.9	*	1	1630	199	58.	113.8	3167.3	*	2	0050	299	43.	78.6	3165.5
1	0815	100	66.	154.9	3168.9	*	1	1635	200	58.	113.4	3167.3	*	2	0055	300	43.	78.3	3165.5

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	PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+	(CFS)	(HR)				
	66.	7.92	64.	47.	45.	45.
		(INCHES)	.011	.032	.032	.032
		(AC-FT)	32.	94.	94.	94.

	PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
			6-HR	24-HR	72-HR	24.92-HR
+	(AC-FT)	(HR)				
	155.	8.00	146.	96.	92.	92.

	PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
			6-HR	24-HR	72-HR	24.92-HR
+	(FEET)	(HR)				
	3168.95	8.00	3168.57	3166.23	3166.03	3166.03

CUMULATIVE AREA = 54.73 SQ MI

1

PEAK FLOW AND STAGE (END-OF-PERIOD) SUMMARY FOR MULTIPLE PLAN-RATIO ECONOMIC COMPUTATIONS
FLOWS IN CUBIC FEET PER SECOND, AREA IN SQUARE MILES
TIME TO PEAK IN HOURS

	OPERATION	STATION	AREA	PLAN		RATIOS APPLIED TO PRECIPITATION RATIO 1 .83	RATIO 2 .80	RATIO 3 .76	RATIO 4 .73	RATIO 5 .69	RATIO 6 .64	RATIO 7 .58	RATIO 8 .53
	HYDROGRAPH AT												
+		RR1	4.22	1	FLOW	396.	363.	317.	272.	240.	192.	152.	121.
					TIME	3.92	3.92	3.92	3.92	3.92	5.08	5.08	5.08
	HYDROGRAPH AT												
+		RR2	3.55	1	FLOW	318.	291.	255.	220.	195.	155.	123.	98.
					TIME	4.00	4.00	4.00	4.08	4.08	5.17	5.17	5.17
	ROUTED TO												
+		RRR2	3.55	1	FLOW	316.	291.	255.	219.	193.	154.	122.	98.
					TIME	4.08	4.08	4.08	4.08	4.08	5.25	5.25	5.25
	2 COMBINED AT												
+		CRR2	7.77	1	FLOW	698.	639.	560.	482.	424.	338.	268.	213.
					TIME	4.00	4.00	4.00	4.00	4.00	5.17	5.17	5.17
	ROUTED TO												
+		RCRR2	7.77	1	FLOW	666.	610.	533.	457.	403.	322.	255.	202.
					TIME	4.25	4.25	4.25	4.25	4.33	5.42	5.42	5.42
	HYDROGRAPH AT												
+		RR5	7.13	1	FLOW	629.	579.	513.	446.	398.	316.	246.	199.
					TIME	4.08	4.08	4.08	4.08	4.08	4.17	5.17	5.25
	ROUTED TO												
+		R-RR5	7.13	1	FLOW	608.	561.	497.	433.	387.	306.	239.	193.
					TIME	4.25	4.33	4.33	4.33	4.33	4.33	5.42	5.42
	HYDROGRAPH AT												
+		RR3	14.98	1	FLOW	941.	860.	749.	655.	596.	492.	384.	300.
					TIME	4.25	4.25	4.33	5.25	5.33	5.33	5.33	5.33
	3 COMBINED AT												
+		CRR3	29.89	1	FLOW	2216.	2029.	1777.	1532.	1357.	1108.	873.	692.
					TIME	4.25	4.25	4.25	4.33	4.33	5.33	5.33	5.42
	ROUTED TO												
+		RCRR3	29.89	1	FLOW	2109.	1932.	1693.	1457.	1291.	1063.	838.	662.
					TIME	4.75	4.75	4.75	4.83	4.83	5.83	5.83	5.83
	HYDROGRAPH AT												
+		RR10	8.77	1	FLOW	358.	330.	292.	255.	228.	181.	134.	98.
					TIME	5.33	5.42	5.42	5.42	5.42	5.42	5.42	5.50
	2 COMBINED AT												
+		CRR10	38.66	1	FLOW	2426.	2220.	1941.	1668.	1477.	1218.	951.	745.
					TIME	4.75	4.75	4.75	4.83	5.75	5.75	5.75	5.83
	ROUTED TO												
+		RCRR10	38.66	1	FLOW	2349.	2152.	1886.	1623.	1447.	1192.	928.	725.
					TIME	5.17	5.17	5.17	5.17	6.08	6.08	6.08	6.17
	HYDROGRAPH AT												
+		RR12A	5.82	1	FLOW	358.	328.	286.	246.	224.	185.	145.	113.
					TIME	4.25	4.25	4.25	5.25	5.25	5.25	5.33	5.33
	ROUTED TO												
+		R-RR12A	5.82	1	FLOW	348.	318.	277.	240.	219.	180.	141.	110.
					TIME	4.50	4.50	4.50	5.50	5.50	5.58	5.58	5.58
	HYDROGRAPH AT												
+		104A	3.39	1	FLOW	53.	46.	38.	30.	24.	14.	6.	1.
					TIME	5.42	5.42	5.42	5.42	5.50	5.50	5.58	5.83
	3 COMBINED AT												
+		C104A	47.87	1	FLOW	2690.	2466.	2162.	1867.	1656.	1326.	1027.	799.

				TIME	5.17	5.17	5.17	5.25	5.25	6.00	6.08	6.08
HYDROGRAPH AT												
+	RD1	.43	1	FLOW	42.	38.	32.	27.	23.	18.	14.	11.
				TIME	3.58	3.58	3.58	3.58	3.58	4.92	4.92	4.92
ROUTED TO												
+	R-RD1	.43	1	FLOW	40.	36.	32.	27.	23.	18.	14.	11.
				TIME	3.75	3.75	3.75	3.75	3.75	5.00	5.00	5.00
HYDROGRAPH AT												
+	RD2	.47	1	FLOW	86.	80.	72.	65.	59.	49.	38.	30.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT												
+	CRD2	.90	1	FLOW	115.	106.	93.	81.	72.	55.	40.	32.
				TIME	3.58	3.58	3.58	3.58	3.58	3.67	3.67	4.92
ROUTED TO												
+	RCRD2	.90	1	FLOW	111.	102.	90.	78.	73.	56.	39.	31.
				TIME	3.67	3.67	3.67	3.67	3.67	3.75	3.75	5.00
HYDROGRAPH AT												
+	RD3	.33	1	FLOW	51.	48.	43.	38.	34.	28.	21.	16.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT												
+	CRD3	1.23	1	FLOW	154.	142.	126.	110.	102.	78.	56.	42.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	4.92
HYDROGRAPH AT												
+	RR14A	4.60	1	FLOW	330.	303.	266.	230.	204.	169.	133.	106.
				TIME	4.25	4.25	4.25	4.25	4.25	5.25	5.33	5.33
ROUTED TO												
+	R-RR14A	4.60	1	FLOW	329.	302.	265.	229.	203.	168.	133.	105.
				TIME	4.25	4.25	4.25	4.33	4.33	5.33	5.33	5.33
HYDROGRAPH AT												
+	RD4	.40	1	FLOW	32.	29.	24.	20.	18.	14.	11.	8.
				TIME	3.58	3.58	3.58	4.92	4.92	4.92	4.92	4.92
2 COMBINED AT												
+	CRD4	5.00	1	FLOW	338.	310.	272.	234.	208.	171.	135.	107.
				TIME	4.25	4.25	4.25	4.33	4.33	5.33	5.33	5.33
ROUTED TO												
+	RCRD4	5.00	1	FLOW	337.	309.	271.	234.	207.	170.	135.	107.
				TIME	4.33	4.33	4.33	4.33	4.33	5.33	5.42	5.42
HYDROGRAPH AT												
+	RD5	.37	1	FLOW	34.	30.	26.	21.	18.	14.	11.	8.
				TIME	3.58	3.58	3.58	3.58	3.58	4.92	4.92	4.92
2 COMBINED AT												
+	CRD5	5.37	1	FLOW	345.	317.	278.	240.	212.	173.	136.	108.
				TIME	4.33	4.33	4.33	4.33	4.33	5.33	5.42	5.42
ROUTED TO												
+	RCRD5	5.37	1	FLOW	344.	314.	278.	239.	212.	173.	136.	108.
				TIME	4.33	4.42	4.42	4.42	4.42	5.42	5.50	5.50
HYDROGRAPH AT												
+	RD6	.25	1	FLOW	38.	35.	31.	28.	25.	20.	15.	11.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT												
+	CRD6	5.62	1	FLOW	351.	322.	284.	245.	219.	177.	138.	110.
				TIME	4.33	4.42	4.42	4.50	4.67	4.92	5.50	5.50
3 COMBINED AT												
+	INRR	54.73	1	FLOW	3076.	2820.	2477.	2143.	1901.	1492.	1127.	876.
				TIME	5.08	5.08	5.17	5.17	5.17	5.33	5.92	6.00
ROUTED TO												
+	RRDB	54.73	1	FLOW	118.	115.	108.	102.	98.	87.	76.	66.
				TIME	8.08	8.08	8.08	8.08	8.08	8.00	8.00	7.92
				** PEAK STAGES IN FEET **								
			1	STAGE	3183.55	3182.19	3180.16	3178.15	3176.69	3173.96	3171.18	3168.95
				TIME	8.08	8.08	8.08	8.08	8.08	8.00	8.00	8.00
DIVERSION TO												
+	*D-RROUT	54.73	1	FLOW	0.	0.	0.	0.	0.	0.	0.	0.
				TIME	.00	.00	.00	.00	.00	.00	.00	.00
HYDROGRAPH AT												
+	*DOUTRR	54.73	1	FLOW	118.	115.	108.	102.	98.	87.	76.	66.
				TIME	8.08	8.08	8.08	8.08	8.08	8.00	8.00	7.92
ROUTED TO												
+	ROUTRR	54.73	1	FLOW	118.	115.	108.	102.	98.	87.	76.	66.
				TIME	8.17	8.17	8.17	8.17	8.08	8.08	8.08	8.08

HYDROGRAPH AT											
+	R3A	.19	1	FLOW	11.	10.	9.	8.	7.	5.	4.	3.
				TIME	3.58	3.58	4.83	4.83	4.83	4.83	4.83	4.83
2 COMBINED AT												
+	CR3A	54.92	1	FLOW	118.	115.	108.	102.	98.	87.	76.	66.
				TIME	8.17	8.17	8.17	8.17	8.08	8.08	8.08	8.08
ROUTED TO												
+	RCR3A	54.92	1	FLOW	118.	115.	108.	102.	98.	87.	76.	66.
				TIME	8.25	8.25	8.25	8.25	8.25	8.17	8.17	8.17

1

*** NORMAL END OF HEC-1 ***

B.3.4 10-year_FLAM3A

```
1****************************************
 *                                      *
 *   FLOOD HYDROGRAPH PACKAGE  (HEC-1)  *
 *              JUN   1998              *
 *           VERSION 4.1                *
 *                                      *
 *  RUN DATE   20MAY20  TIME  09:42:23  *
 *                                      *
 ****************************************
```

```
****************************************
*                                      *
*    U.S. ARMY CORPS OF ENGINEERS      *
*    HYDROLOGIC ENGINEERING CENTER     *
*          609 SECOND STREET           *
*       DAVIS, CALIFORNIA 95616        *
*            (916) 756-1104            *
*                                      *
****************************************
```

```
X     X  XXXXXXX   XXXXX           X
X     X  X        X     X         XX
X     X  X        X               X
XXXXXXX  XXXX     X        XXXXX  X
X     X  X        X               X
X     X  X        X     X         X
X     X  XXXXXXX   XXXXX          XXX
```

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL   LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM


```
          LINE      ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10
                    *DIAGRAM
 *** FREE ***
               1    ID   RED ROCK TRAIL TO FY19-87
               2    ID   US FEDERAL HIGHWAY ADMINISTRATION
               3    ID   PN WXXY4000
               4    ID
               5    ID   HEC-1 MODEL TAKEN FROM CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT (CCRFCD)
               6    ID   2018 MASTER PLAN UPDATE
               7    ID   FLAMINGO / TROPICANA WASHES WATERSHED
               8    ID   RECOMMENDED DRAINAGE SYSTEM WITH ULTIMATE DEVELOPMENT
               9    ID   INPUT FILE = FLAM3A.DAT
              10    ID   INPUT FILE DATE = MAY 2020
              11    ID   PRECIPITATION VALUES TAKEN FROM NOAA ATLAS 2 &
              12    ID   ADJUSTED PER CCRFCD HYDRAULIC CRITERIA & DRAINAGE DESIGN MANUAL TABLE 501
              13    ID   DESIGN STORM = 10-YEAR, 6-HOUR STORM
              14    ID   STORM DISTRIBUTION = SDN3
              15    ID   STORM CENTERING = SERIES A: REGIONAL DETENTION BASIN FLOWS NOT DIVERTED OUT
              16    ID   MODELED BY JACOBS (DAVE BERGH, PE)
              17    ID
              18    ID   JR CARDS CONTAIN DARFS BASED ON THE FOLLOWING VALUES:
              19    ID
              20    ID         AREA    DARF
              21    ID         SQ.MI.
              22    ID                 SDN 3   SDN 4   SDN 5
              23    ID         0 - 0.5 0.990
              24    ID         0.5 - 1 0.975
              25    ID         1 - 2   0.950
              26    ID         2 - 3   0.925
              27    ID         3 - 4   0.915
              28    ID         4 - 5   0.908
              29    ID         5 - 6   0.903
              30    ID         6 - 7   0.895
              31    ID         7 - 8   0.885
              32    ID         8 - 9           0.875
              33    ID         9 - 10          0.865
              34    ID         10 - 11         0.857
              35    ID         11 - 12         0.850
              36    ID         12 - 16                 0.832
              37    ID         16 - 20                 0.804
              38    ID         20 - 30                 0.765
              39    ID         30 - 40                 0.725
              40    ID         40 - 50                 0.695
              41    ID         50 - 100                0.640
              42    ID         100 - 150               0.580
              43    ID         150 - 200               0.530
              44    ID
              45    IT      5       0       0     300
              46    IO      5       0       0
              47    IN      5       0       0
              48    JR    PREC    0.99   0.975    0.95   0.925   0.915   0.908   0.903   0.895   0.885
                    *
```



```
          LINE      ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10
              49    KK     RR1
              50    BA   4.225
              51    PB    2.10
              52    PC   0.000   0.020   0.057   0.070   0.087   0.108   0.124   0.130   0.130   0.130
              53    PC   0.130   0.130   0.130   0.133   0.140   0.142   0.148   0.158   0.172   0.181
              54    PC   0.190   0.197   0.199   0.200   0.201   0.204   0.214   0.229   0.241   0.249
              55    PC   0.251   0.256   0.270   0.278   0.281   0.283   0.295   0.322   0.352   0.409
              56    PC   0.499   0.590   0.710   0.744   0.781   0.812   0.819   0.835   0.851   0.856
              57    PC   0.860   0.868   0.876   0.888   0.910   0.926   0.937   0.950   0.970   0.976
              58    PC   0.982   0.985   0.987   0.989   0.990   0.993   0.993   0.994   0.995   0.998
              59    PC   0.998   0.999   1.000
              60    LS       0    85.8
              61    UD   0.443
                    *
              62    KK     RR2
              63    BA   3.547
              64    PB    2.50
              65    LS       0    86.2
              66    UD   0.545
                    *
              67    KK    RRR2
              68    KM   MUSKINGUM ROUTING UNSTABLE - USED MUSKINGUM-CUNGE
              69    KM   NATURAL WASH
              70    RD    1700   0.076    0.04       0    TRAP     100       2
                    *
              71    KK    CRR2
              72    KM   COMBINE RR1 AND RRR2
              73    HC       2
                    *
              74    KK   RCRR2
              75    KM   ROUTE CRR2 TO CRR3
              76    KM   NATURAL WASH
              77    KM   TRAVEL LENGTH = 15850
              78    KM   SLOPE = 0.043
              79    KM   N = 0.04
              80    KM   HYDRAULIC RADIUS = 1.5
              81    KM   VELOCITY = 16.2
              82    RM       3   0.272    0.15
                    *
              83    KK     RR5
              84    BA   7.132
              85    PB    2.29
              86    LS       0    87.9
              87    UD   0.615
                    *
```



```
          LINE      ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10
              88    KK   R-RR5
              89    KM   ROUTE RR5 THROUGH RR3 TO CRR3
              90    KM   NATURAL WASH
              91    KM   TRAVEL LENGTH = 10700
              92    KM   SLOPE = 0.037
              93    KM   N = 0.04
              94    KM   HYDRAULIC RADIUS = 1.5
              95    KM   VELOCITY = 15
              96    RM       2   0.198    0.15
                    *
              97    KK     RR3
              98    BA  14.983
              99    PB    2.29
             100    LS       0      87
             101    UD   0.761
                    *
             102    KK    CRR3
             103    KM   COMBINE RCRR2, R-RR5, AND RR3
             104    HC       3
                    *
             105    KK   RCRR3
             106    KM   ROUTE CRR3 THROUGH RR10 TO CRR10
             107    KM   NATURAL WASH
             108    KM   TRAVEL LENGTH = 20700
             109    KM   SLOPE = 0.025
             110    KM   N = 0.04
             111    KM   HYDRAULIC RADIUS = 1.5
             112    KM   VELOCITY = 12.3
             113    RM       6   0.466    0.15
                    *
             114    KK    RR10
             115    BA   8.775
             116    PB    2.10
             117    LS       0    86.1
             118    UD   0.882
```

```
                 *
 119             KK   CRR10
 120             KM   COMBINE RCRR3 AND RR10
 121             HC       2
                 *
 122             KK  RCRR10
 123             KM   ROUTE CRR10 THROUGH 104A TO C104A (RED ROCK DETENTION BASIN)
 124             KM   NATURAL WASH
 125             KM   TRAVEL LENGTH = 14500
 126             KM   SLOPE = 0.021
 127             KM   N = 0.04
 128             KM   HYDRAULIC RADIUS = 1.5
 129             KM   VELOCITY = 11.3
1                                    HEC-1 INPUT                                    PAGE  4
LINE             ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10
 130             RM       4   0.356    0.15
                 *
 131             KK   RR12A
 132             BA   5.821
 133             PB    2.11
 134             LS       0    87.6
 135             UD   0.728
                 *
 136             KK R-RR12A
 137             KM   ROUTE RR12A THROUGH 104A TO C104A (RED ROCK DETENTION BASIN)
 138             KM   NATURAL WASH
 139             KM   TRAVEL LENGTH = 12000
 140             KM   SLOPE = 0.026
 141             KM   N = 0.04
 142             KM   HYDRAULIC RADIUS = 1.5
 143             KM   VELOCITY = 12.6
 144             RM       3   0.265    0.15
                 *
 145             KK    104A
 146             BA   3.391
 147             PB    1.95
 148             LS       0    81.3
 149             UD   0.801
                 *
 150             KK   C104A
 151             KM   COMBINE RCRR10, R-RR12A, AND 104A
 152             HC       3
                 *
 153             KK     RD1
 154             BA   0.431
 155             PB    2.10
 156             LS       0    86.6
 157             UD   0.195
                 *
 158             KK   R-RD1
 159             KM   ROUTE RD1 THROUGH RD2 TO CRD2
 160             KM   FUTURE CONCRETE CHANNEL
 161             RD    5100   0.061   0.015       0    TRAP      12       2
                 *
 162             KK     RD2
 163             BA   0.473
 164             PB    2.00
 165             LS       0    91.2
 166             UD   0.167
                 *
1                                    HEC-1 INPUT                                    PAGE  5
LINE             ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10
 167             KK    CRD2
 168             KM   COMBINE R-RD1 AND RD2
 169             HC       2
                 *
 170             KK   RCRD2
 171             KM   ROUTE CRD2 TO CRD3 (RED ROCK DETENTION BASIN)
 172             KM   FUTURE CONCRETE CHANNEL
 173             RD    4600    0.05   0.015       0    TRAP      12       2
                 *
 174             KK     RD3
 175             BA    0.33
 176             PB    1.96
 177             LS       0    90.3
 178             UD   0.168
                 *
 179             KK    CRD3
 180             KM   COMBINE RCRD2 AND RD3
 181             HC       2
                 *
 182             KK   RR14A
 183             BA   4.602
 184             PB    2.18
 185             LS       0    87.3
 186             UD   0.725
                 *
 187             KK R-RR14A
 188             KM   ROUTE RR14A THROUGH RD4 TO CRD4
 189             KM   FUTURE CONCRETE CHANNEL
 190             RD    5500   0.071   0.015       0    TRAP      12       2
                 *
 191             KK     RD4
 192             BA   0.402
 193             PB    2.10
 194             LS       0    85.1
 195             UD   0.177
                 *
 196             KK    CRD4
 197             KM   COMBINE R-RR14A AND RD4
 198             HC       2
                 *
 199             KK   RCRD4
 200             KM   ROUTE CRD4 THROUGH RD5 TO CRD5
 201             KM   FUTURE CONCRETE CHANNEL
 202             RD    4550   0.067   0.015       0    TRAP      20       2
                 *
1                                    HEC-1 INPUT                                    PAGE  6
LINE             ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10
 203             KK     RD5
 204             BA    0.37
 205             PB    2.00
 206             LS       0    86.2
 207             UD   0.163
                 *
 208             KK    CRD5
 209             KM   COMBINE RCRD4 AND RD5
 210             HC       2
                 *
 211             KK   RCRD5
 212             KM   ROUTE CRD5 THROUGH RD6 TO CRD6 (RED ROCK DETENTION BASIN)
 213             KM   FUTURE CONCRETE CHANNEL
 214             RD    5600   0.047   0.015       0    TRAP      20       2
                 *
 215             KK     RD6
 216             BA    0.25
 217             PB    1.97
 218             LS       0      90
 219             UD    0.16
                 *
 220             KK    CRD6
 221             KM   COMBINE RCRD5 AND RD6
 222             HC       2
                 *
 223             KK    INRR
 224             KM   COMBINE C104A, CRD3, AND CRD6 - TOTAL INFLOW TO RED ROCK DETENTION BASIN
 225             KO       1
 226             HC       3
                 * ============================================================
 227             KK    RRDB
 228             KM   RED ROCK DETENTION BASIN
 229             KM   TAKEN FROM THE CORP MODELS FOR RED ROCK DETENTION BASIN
 230             KM   100YR COMPUTED PROBABILITY DETENTION DESIGN
 231             KM   FACILITY ID-MILE = RRWA 0716
 232             KM   STORAGE VOLUME = 2007 ACRE-FEET
 233             KM   OUTLET = 27"H x 27"W RCB ORIFICE
 234             KM   100-YR DISCHARGE = 182 CFS
 235             KM   SPILLWAY LENGTH = 600 FT
 236             KM   AUXILLARY OGEE SPILLWAY LENGTH = 323 FT
 237             KM   SPILLWAY CREST ELEVATION = 3212.5 FT NGVD
 238             KM   PMF DISCHARGE = 110000 CFS
 239             KM   TOP OF DAM ELEVATION = 3225 FT NGVD
 240             KO       1
 241             RS       1    STOR      -1
 242             SV       0       9     107     231     372     529     705     903    1125    1376
 243             SV    1659    1974    2007    2115    2331    2690    2933
 244             SQ       0      10      57      80      99     114     128     140     151     162
```

```
  LINE          ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

  245           SQ     171     181     182    8654   33270  110918  163477
  246           SE    3161    3162    3167    3172    3177    3182    3187    3192    3197    3202
  247           SE    3207    3212  3212.5    3214    3217    3222    3225
                * ========================================================

  248           KK *DOUTRR
  249           KM   DIVERT SPILLWAY OVERFLOW IN EXCESS OF CORPS DESIGN OUTFLOW
  250           DT*D-RROUT
  251           DI       0     182    3000    5000   10000
  252           DQ       0       0    2818    4818    9818
                *

  253           KK  ROUTRR
  254           KM   ROUTE OUTFLOW FROM RED ROCK DETENTION BASIN THROUGH R3A TO CR3A
  255           KM   FACILITY = RED ROCK CHANNEL
  256           KM   FACILITY # = RRWA 0714, 0709, 0701
  257           KM   LINING = RCP
  258           KM   LINING = RIPRAP CHNL 10'W X 6'D; 2:1SS
  259           RD    1500   0.008    0.04       0    TRAP      10       2
                *

  260           KK     R3A
  261           BA   0.186
  262           PB    1.93
  263           LS       0    84.3
  264           UD    0.11
                *

  265           KK    CR3A
  266           KM   COMBINE OUTFLOW FROM RED ROCK DETENTION BASIN WITH R3A
  267           HC       2
                *

  268           KK   RCR3A
  269           KM   ROUTE CR3A THROUGH UFR1 TO CUFR1
  270           KM   FACILITY = RED ROCK CHANNEL
  271           KM   FACILITY # = RRWA 0695, 0692, 0608, 0607
  272           KM   LINING = RCP
  273           RD    5045  0.0055   0.013       0    CIRC       8       0
                *

  274           ZZ
```

1

SCHEMATIC DIAGRAM OF STREAM NETWORK

INPUT LINE (V) ROUTING (---->) DIVERSION OR PUMP FLOW

NO. (.) CONNECTOR (<---) RETURN OF DIVERTED OR PUMPED FLOW

```
  49         RR1
               .
               .
  62           .         RR2
               .           V
               .           V
  67           .        RRR2
               .          .
               .          .
  71        CRR2.............
              V
              V
  74       RCRR2
             .
             .
  83           .         RR5
               .           V
               .           V
  88           .       R-RR5
               .          .
               .          .
  97           .           .         RR3
               .           .           .
               .           .           .
 102        CRR3.......................
              V
              V
 105       RCRR3
             .
             .
 114           .        RR10
               .          .
               .          .
 119       CRR10............
              V
              V
 122      RCRR10
             .
             .
 131           .       RR12A
               .         V
               .         V
 136           .     R-RR12A
               .         .
               .         .
 145           .         .        104A
               .         .          .
               .         .          .
 150       C104A.........................
               .
               .
 153           .         RD1
               .          V
               .          V
 158           .       R-RD1
               .         .
               .         .
 162           .         .         RD2
               .         .           .
               .         .           .
 167           .        CRD2............
               .          V
               .          V
 170           .       RCRD2
               .         .
               .         .
 174           .         .         RD3
               .         .           .
               .         .           .
 179           .        CRD3............
               .         .
               .         .
 182           .         .       RR14A
               .         .         V
               .         .         V
 187           .         .     R-RR14A
               .         .         .
               .         .         .
 191           .         .         .         RD4
               .         .         .           .
               .         .         .           .
 196           .         .        CRD4............
               .         .          V
               .         .          V
 199           .         .       RCRD4
               .         .         .
               .         .         .
 203           .         .         .         RD5
               .         .         .           .
               .         .         .           .
 208           .         .        CRD5............
               .         .          V
               .         .          V
 211           .         .       RCRD5
               .         .         .
               .         .         .
 215           .         .         .         RD6
               .         .         .           .
               .         .         .           .
 220           .         .        CRD6............
               .         .          .
               .         .          .
 223         INRR.........................
               V
               V
 227         RRDB
               .
               .
 250           .-------->*D-RROUT
 248      *DOUTRR
               V
               V
 253       ROUTRR
               .
               .
 260           .         R3A
               .          .
               .          .
 265         CR3A............
               V
               V
 268        RCR3A
```

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

```
1*****************************************
 *                                       *
 *   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
 *             JUN   1998                *
 *          VERSION 4.1                  *
 *                                       *
 *  RUN DATE   20MAY20  TIME  09:42:23   *
 *                                       *
 *****************************************

 ************************************
 *                                  *
 *    U.S. ARMY CORPS OF ENGINEERS  *
 *    HYDROLOGIC ENGINEERING CENTER *
 *         609 SECOND STREET        *
 *       DAVIS, CALIFORNIA 95616    *
 *           (916) 756-1104         *
 *                                  *
 ************************************
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RED ROCK TRAIL TO FY19-87
US FEDERAL HIGHWAY ADMINISTRATION
PN WXXY4000

HEC-1 MODEL TAKEN FROM CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT (CCRFCD)
2018 MASTER PLAN UPDATE
FLAMINGO / TROPICANA WASHES WATERSHED
RECOMMENDED DRAINAGE SYSTEM WITH ULTIMATE DEVELOPMENT
INPUT FILE = FLAM3A.DAT
INPUT FILE DATE = MAY 2020
PRECIPITATION VALUES TAKEN FROM NOAA ATLAS 2 &
ADJUSTED PER CCRFCD HYDRAULIC CRITERIA & DRAINAGE DESIGN MANUAL TABLE 501
DESIGN STORM = 10-YEAR, 6-HOUR STORM
STORM DISTRIBUTION = SDN3
STORM CENTERING = SERIES A: REGIONAL DETENTION BASIN FLOWS NOT DIVERTED OUT
MODELED BY JACOBS (DAVE BERGH, PE)

JR CARDS CONTAIN DARFS BASED ON THE FOLLOWING VALUES:

AREA SQ.MI.	DARF SDN 3	SDN 4	SDN 5
0 - 0.5	0.990		
0.5 - 1	0.975		
1 - 2	0.950		
2 - 3	0.925		
3 - 4	0.915		
4 - 5	0.908		
5 - 6	0.903		
6 - 7	0.895		
7 - 8	0.885		
8 - 9		0.875	
9 - 10		0.865	
10 - 11		0.857	
11 - 12		0.850	
12 - 16			0.832
16 - 20			0.804
20 - 30			0.765
30 - 40			0.725
40 - 50			0.695
50 - 100			0.640
100 - 150			0.580
150 - 200			0.530

46 IO OUTPUT CONTROL VARIABLES
IPRNT 5 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE

IT HYDROGRAPH TIME DATA
NMIN 5 MINUTES IN COMPUTATION INTERVAL
IDATE 1 0 STARTING DATE
ITIME 0000 STARTING TIME
NQ 300 NUMBER OF HYDROGRAPH ORDINATES
NDDATE 2 0 ENDING DATE
NDTIME 0055 ENDING TIME
ICENT 19 CENTURY MARK

COMPUTATION INTERVAL .08 HOURS
TOTAL TIME BASE 24.92 HOURS

ENGLISH UNITS
DRAINAGE AREA SQUARE MILES
PRECIPITATION DEPTH INCHES
LENGTH, ELEVATION FEET
FLOW CUBIC FEET PER SECOND
STORAGE VOLUME ACRE-FEET
SURFACE AREA ACRES
TEMPERATURE DEGREES FAHRENHEIT

JP MULTI-PLAN OPTION
NPLAN 1 NUMBER OF PLANS

JR MULTI-RATIO OPTION
RATIOS OF PRECIPITATION
.99 .98 .95 .93 .92 .91 .90 .89 .88

*** ***

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              *************
              *           *
223 KK        *     INRR  *
              *           *
              *************
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225 KO OUTPUT CONTROL VARIABLES
IPRNT 1 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE

226 HC HYDROGRAPH COMBINATION
ICOMP 3 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .99

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	7426.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	6834.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	6238.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	5647.	1		1245	154	0.	1		1900	229	0.
1		0020	5	0.	1		0635	80	5068.	1		1250	155	0.	1		1905	230	0.
1		0025	6	0.	1		0640	81	4513.	1		1255	156	0.	1		1910	231	0.
1		0030	7	0.	1		0645	82	3992.	1		1300	157	0.	1		1915	232	0.
1		0035	8	2.	1		0650	83	3511.	1		1305	158	0.	1		1920	233	0.
1		0040	9	4.	1		0655	84	3074.	1		1310	159	0.	1		1925	234	0.
1		0045	10	5.	1		0700	85	2682.	1		1315	160	0.	1		1930	235	0.
1		0050	11	4.	1		0705	86	2333.	1		1320	161	0.	1		1935	236	0.
1		0055	12	2.	1		0710	87	2024.	1		1325	162	0.	1		1940	237	0.
1		0100	13	1.	1		0715	88	1752.	1		1330	163	0.	1		1945	238	0.
1		0105	14	1.	1		0720	89	1512.	1		1335	164	0.	1		1950	239	0.
1		0110	15	2.	1		0725	90	1300.	1		1340	165	0.	1		1955	240	0.
1		0115	16	3.	1		0730	91	1114.	1		1345	166	0.	1		2000	241	0.
1		0120	17	5.	1		0735	92	950.	1		1350	167	0.	1		2005	242	0.
1		0125	18	8.	1		0740	93	807.	1		1355	168	0.	1		2010	243	0.
1		0130	19	13.	1		0745	94	681.	1		1400	169	0.	1		2015	244	0.
1		0135	20	21.	1		0750	95	572.	1		1405	170	0.	1		2020	245	0.
1		0140	21	29.	1		0755	96	479.	1		1410	171	0.	1		2025	246	0.
1		0145	22	36.	1		0800	97	399.	1		1415	172	0.	1		2030	247	0.
1		0150	23	42.	1		0805	98	331.	1		1420	173	0.	1		2035	248	0.
1		0155	24	46.	1		0810	99	273.	1		1425	174	0.	1		2040	249	0.
1		0200	25	49.	1		0815	100	225.	1		1430	175	0.	1		2045	250	0.
1		0205	26	56.	1		0820	101	185.	1		1435	176	0.	1		2050	251	0.
1		0210	27	70.	1		0825	102	153.	1		1440	177	0.	1		2055	252	0.
1		0215	28	96.	1		0830	103	125.	1		1445	178	0.	1		2100	253	0.
1		0220	29	136.	1		0835	104	103.	1		1450	179	0.	1		2105	254	0.
1		0225	30	181.	1		0840	105	85.	1		1455	180	0.	1		2110	255	0.
1		0230	31	223.	1		0845	106	69.	1		1500	181	0.	1		2115	256	0.
1		0235	32	257.	1		0850	107	57.	1		1505	182	0.	1		2120	257	0.
1		0240	33	297.	1		0855	108	46.	1		1510	183	0.	1		2125	258	0.
1		0245	34	354.	1		0900	109	38.	1		1515	184	0.	1		2130	259	0.
1		0250	35	421.	1		0905	110	31.	1		1520	185	0.	1		2135	260	0.
1		0255	36	485.	1		0910	111	25.	1		1525	186	0.	1		2140	261	0.
1		0300	37	546.	1		0915	112	20.	1		1530	187	0.	1		2145	262	0.
1		0305	38	626.	1		0920	113	16.	1		1535	188	0.	1		2150	263	0.
1		0310	39	747.	1		0925	114	12.	1		1540	189	0.	1		2155	264	0.
1		0315	40	930.	1		0930	115	10.	1		1545	190	0.	1		2200	265	0.
1		0320	41	1231.	1		0935	116	7.	1		1550	191	0.	1		2205	266	0.
1		0325	42	1711.	1		0940	117	6.	1		1555	192	0.	1		2210	267	0.
1		0330	43	2372.	1		0945	118	4.	1		1600	193	0.	1		2215	268	0.
1		0335	44	3093.	1		0950	119	3.	1		1605	194	0.	1		2220	269	0.
1		0340	45	3627.	1		0955	120	3.	1		1610	195	0.	1		2225	270	0.
1		0345	46	4040.	1		1000	121	2.	1		1615	196	0.	1		2230	271	0.
1		0350	47	4526.	1		1005	122	1.	1		1620	197	0.	1		2235	272	0.
1		0355	48	5140.	1		1010	123	1.	1		1625	198	0.	1		2240	273	0.
1		0400	49	5910.	1		1015	124	1.	1		1630	199	0.	1		2245	274	0.
1		0405	50	6823.	1		1020	125	1.	1		1635	200	0.	1		2250	275	0.
1		0410	51	7816.	1		1025	126	0.	1		1640	201	0.	1		2255	276	0.
1		0415	52	8870.	1		1030	127	0.	1		1645	202	0.	1		2300	277	0.
1		0420	53	10014.	1		1035	128	0.	1		1650	203	0.	1		2305	278	0.
1		0425	54	11248.	1		1040	129	0.	1		1655	204	0.	1		2310	279	0.
1		0430	55	12558.	1		1045	130	0.	1		1700	205	0.	1		2315	280	0.
1		0435	56	13899.	1		1050	131	0.	1		1705	206	0.	1		2320	281	0.
1		0440	57	15161.	1		1055	132	0.	1		1710	207	0.	1		2325	282	0.
1		0445	58	16234.	1		1100	133	0.	1		1715	208	0.	1		2330	283	0.
1		0450	59	17076.	1		1105	134	0.	1		1720	209	0.	1		2335	284	0.
1		0455	60	17649.	1		1110	135	0.	1		1725	210	0.	1		2340	285	0.
1		0500	61	17881.	1		1115	136	0.	1		1730	211	0.	1		2345	286	0.
1		0505	62	17753.	1		1120	137	0.	1		1735	212	0.	1		2350	287	0.
1		0510	63	17313.	1		1125	138	0.	1		1740	213	0.	1		2355	288	0.
1		0515	64	16630.	1		1130	139	0.	1		1745	214	0.	2		0000	289	0.
1		0520	65	15779.	1		1135	140	0.	1		1750	215	0.	2		0005	290	0.
1		0525	66	14836.	1		1140	141	0.	1		1755	216	0.	2		0010	291	0.
1		0530	67	13866.	1		1145	142	0.	1		1800	217	0.	2		0015	292	0.
1		0535	68	12917.	1		1150	143	0.	1		1805	218	0.	2		0020	293	0.
1		0540	69	12024.	1		1155	144	0.	1		1810	219	0.	2		0025	294	0.
1		0545	70	11210.	1		1200	145	0.	1		1815	220	0.	2		0030	295	0.
1		0550	71	10478.	1		1205	146	0.	1		1820	221	0.	2		0035	296	0.
1		0555	72	9812.	1		1210	147	0.	1		1825	222	0.	2		0040	297	0.
1		0600	73	9191.	1		1215	148	0.	1		1830	223	0.	2		0045	298	0.
1		0605	74	8597.	1		1220	149	0.	1		1835	224	0.	2		0050	299	0.
1		0610	75	8013.	1		1225	150	0.	1		1840	225	0.	2		0055	300	0.

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 17881.	5.00	6032.	1513.	1457.	1457.
		(INCHES) 1.025	1.028	1.028	1.028
		(AC-FT) 2991.	3001.	3001.	3001.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .98

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	7268.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	6689.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	6107.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	5528.	1		1245	154	0.	1		1900	229	0.
1		0020	5	0.	1		0635	80	4962.	1		1250	155	0.	1		1905	230	0.
1		0025	6	0.	1		0640	81	4419.	1		1255	156	0.	1		1910	231	0.
1		0030	7	0.	1		0645	82	3909.	1		1300	157	0.	1		1915	232	0.
1		0035	8	1.	1		0650	83	3438.	1		1305	158	0.	1		1920	233	0.
1		0040	9	3.	1		0655	84	3010.	1		1310	159	0.	1		1925	234	0.
1		0045	10	4.	1		0700	85	2626.	1		1315	160	0.	1		1930	235	0.
1		0050	11	3.	1		0705	86	2285.	1		1320	161	0.	1		1935	236	0.
1		0055	12	2.	1		0710	87	1983.	1		1325	162	0.	1		1940	237	0.
1		0100	13	1.	1		0715	88	1716.	1		1330	163	0.	1		1945	238	0.
1		0105	14	1.	1		0720	89	1481.	1		1335	164	0.	1		1950	239	0.
1		0110	15	1.	1		0725	90	1274.	1		1340	165	0.	1		1955	240	0.
1		0115	16	3.	1		0730	91	1091.	1		1345	166	0.	1		2000	241	0.
1		0120	17	5.	1		0735	92	931.	1		1350	167	0.	1		2005	242	0.
1		0125	18	7.	1		0740	93	790.	1		1355	168	0.	1		2010	243	0.
1		0130	19	12.	1		0745	94	667.	1		1400	169	0.	1		2015	244	0.
1		0135	20	20.	1		0750	95	561.	1		1405	170	0.	1		2020	245	0.
1		0140	21	27.	1		0755	96	469.	1		1410	171	0.	1		2025	246	0.
1		0145	22	34.	1		0800	97	391.	1		1415	172	0.	1		2030	247	0.
1		0150	23	38.	1		0805	98	324.	1		1420	173	0.	1		2035	248	0.
1		0155	24	41.	1		0810	99	268.	1		1425	174	0.	1		2040	249	0.
1		0200	25	44.	1		0815	100	221.	1		1430	175	0.	1		2045	250	0.
1		0205	26	49.	1		0820	101	182.	1		1435	176	0.	1		2050	251	0.
1		0210	27	62.	1		0825	102	149.	1		1440	177	0.	1		2055	252	0.
1		0215	28	87.	1		0830	103	123.	1		1445	178	0.	1		2100	253	0.
1		0220	29	124.	1		0835	104	101.	1		1450	179	0.	1		2105	254	0.
1		0225	30	165.	1		0840	105	83.	1		1455	180	0.	1		2110	255	0.
1		0230	31	203.	1		0845	106	68.	1		1500	181	0.	1		2115	256	0.
1		0235	32	236.	1		0850	107	56.	1		1505	182	0.	1		2120	257	0.
1		0240	33	274.	1		0855	108	46.	1		1510	183	0.	1		2125	258	0.
1		0245	34	327.	1		0900	109	37.	1		1515	184	0.	1		2130	259	0.
1		0250	35	391.	1		0905	110	30.	1		1520	185	0.	1		2135	260	0.
1		0255	36	451.	1		0910	111	24.	1		1525	186	0.	1		2140	261	0.
1		0300	37	510.	1		0915	112	19.	1		1530	187	0.	1		2145	262	0.
1		0305	38	586.	1		0920	113	15.	1		1535	188	0.	1		2150	263	0.
1		0310	39	700.	1		0925	114	12.	1		1540	189	0.	1		2155	264	0.
1		0315	40	876.	1		0930	115	9.	1		1545	190	0.	1		2200	265	0.
1		0320	41	1161.	1		0935	116	7.	1		1550	191	0.	1		2205	266	0.
1		0325	42	1623.	1		0940	117	6.	1		1555	192	0.	1		2210	267	0.
1		0330	43	2269.	1		0945	118	4.	1		1600	193	0.	1		2215	268	0.
1		0335	44	2981.	1		0950	119	3.	1		1605	194	0.	1		2220	269	0.
1		0340	45	3511.	1		0955	120	2.	1		1610	195	0.	1		2225	270	0.
1		0345	46	3911.	1		1000	121	2.	1		1615	196	0.	1		2230	271	0.
1		0350	47	4380.	1		1005	122	1.	1		1620	197	0.	1		2235	272	0.
1		0355	48	4978.	1		1010	123	1.	1		1625	198	0.	1		2240	273	0.
1		0400	49	5727.	1		1015	124	1.	1		1630	199	0.	1		2245	274	0.
1		0405	50	6618.	1		1020	125	1.	1		1635	200	0.	1		2250	275	0.
1		0410	51	7585.	1		1025	126	0.	1		1640	201	0.	1		2255	276	0.
1		0415	52	8614.	1		1030	127	0.	1		1645	202	0.	1		2300	277	0.
1		0420	53	9732.	1		1035	128	0.	1		1650	203	0.	1		2305	278	0.
1		0425	54	10938.	1		1040	129	0.	1		1655	204	0.	1		2310	279	0.
1		0430	55	12219.	1		1045	130	0.	1		1700	205	0.	1		2315	280	0.
1		0435	56	13531.	1		1050	131	0.	1		1705	206	0.	1		2320	281	0.
1		0440	57	14765.	1		1055	132	0.	1		1710	207	0.	1		2325	282	0.
1		0445	58	15816.	1		1100	133	0.	1		1715	208	0.	1		2330	283	0.
1		0450	59	16642.	1		1105	134	0.	1		1720	209	0.	1		2335	284	0.
1		0455	60	17206.	1		1110	135	0.	1		1725	210	0.	1		2340	285	0.
1		0500	61	17439.	1		1115	136	0.	1		1730	211	0.	1		2345	286	0.
1		0505	62	17320.	1		1120	137	0.	1		1735	212	0.	1		2350	287	0.
1		0510	63	16895.	1		1125	138	0.	1		1740	213	0.	1		2355	288	0.
1		0515	64	16233.	1		1130	139	0.	1		1745	214	0.	2		0000	289	0.
1		0520	65	15407.	1		1135	140	0.	1		1750	215	0.	2		0005	290	0.
1		0525	66	14489.	1		1140	141	0.	1		1755	216	0.	2		0010	291	0.
1		0530	67	13545.	1		1145	142	0.	1		1800	217	0.	2		0015	292	0.
1		0535	68	12621.	1		1150	143	0.	1		1805	218	0.	2		0020	293	0.
1		0540	69	11752.	1		1155	144	0.	1		1810	219	0.	2		0025	294	0.
1		0545	70	10958.	1		1200	145	0.	1		1815	220	0.	2		0030	295	0.
1		0550	71	10245.	1		1205	146	0.	1		1820	221	0.	2		0035	296	0.
1		0555	72	9596.	1		1210	147	0.	1		1825	222	0.	2		0040	297	0.
1		0600	73	8991.	1		1215	148	0.	1		1830	223	0.	2		0045	298	0.
1		0605	74	8411.	1		1220	149	0.	1		1835	224	0.	2		0050	299	0.
1		0610	75	7841.	1		1225	150	0.	1		1840	225	0.	2		0055	300	0.

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 17439.	5.00	5878.	1474.	1420.	1420.
		(INCHES) .999	1.002	1.002	1.002
		(AC-FT) 2915.	2924.	2924.	2924.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .95

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	7004.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	6448.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	5888.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	5331.	1		1245	154	0.	1		1900	229	0.
1		0020	5	0.	1		0635	80	4786.	1		1250	155	0.	1		1905	230	0.
1		0025	6	0.	1		0640	81	4262.	1		1255	156	0.	1		1910	231	0.
1		0030	7	0.	1		0645	82	3771.	1		1300	157	0.	1		1915	232	0.
1		0035	8	1.	1		0650	83	3317.	1		1305	158	0.	1		1920	233	0.
1		0040	9	2.	1		0655	84	2905.	1		1310	159	0.	1		1925	234	0.
1		0045	10	3.	1		0700	85	2534.	1		1315	160	0.	1		1930	235	0.
1		0050	11	3.	1		0705	86	2205.	1		1320	161	0.	1		1935	236	0.
1		0055	12	2.	1		0710	87	1914.	1		1325	162	0.	1		1940	237	0.
1		0100	13	1.	1		0715	88	1657.	1		1330	163	0.	1		1945	238	0.
1		0105	14	1.	1		0720	89	1430.	1		1335	164	0.	1		1950	239	0.
1		0110	15	1.	1		0725	90	1230.	1		1340	165	0.	1		1955	240	0.
1		0115	16	3.	1		0730	91	1054.	1		1345	166	0.	1		2000	241	0.
1		0120	17	4.	1		0735	92	899.	1		1350	167	0.	1		2005	242	0.
1		0125	18	6.	1		0740	93	763.	1		1355	168	0.	1		2010	243	0.
1		0130	19	11.	1		0745	94	644.	1		1400	169	0.	1		2015	244	0.
1		0135	20	18.	1		0750	95	542.	1		1405	170	0.	1		2020	245	0.
1		0140	21	24.	1		0755	96	453.	1		1410	171	0.	1		2025	246	0.
1		0145	22	29.	1		0800	97	377.	1		1415	172	0.	1		2030	247	0.
1		0150	23	33.	1		0805	98	313.	1		1420	173	0.	1		2035	248	0.
1		0155	24	35.	1		0810	99	259.	1		1425	174	0.	1		2040	249	0.
1		0200	25	36.	1		0815	100	213.	1		1430	175	0.	1		2045	250	0.
1		0205	26	40.	1		0820	101	176.	1		1435	176	0.	1		2050	251	0.
1		0210	27	51.	1		0825	102	144.	1		1440	177	0.	1		2055	252	0.
1		0215	28	72.	1		0830	103	119.	1		1445	178	0.	1		2100	253	0.
1		0220	29	104.	1		0835	104	97.	1		1450	179	0.	1		2105	254	0.
1		0225	30	141.	1		0840	105	80.	1		1455	180	0.	1		2110	255	0.
1		0230	31	175.	1		0845	106	66.	1		1500	181	0.	1		2115	256	0.
1		0235	32	203.	1		0850	107	54.	1		1505	182	0.	1		2120	257	0.
1		0240	33	237.	1		0855	108	44.	1		1510	183	0.	1		2125	258	0.
1		0245	34	285.	1		0900	109	36.	1		1515	184	0.	1		2130	259	0.
1		0250	35	342.	1		0905	110	29.	1		1520	185	0.	1		2135	260	0.
1		0255	36	397.	1		0910	111	23.	1		1525	186	0.	1		2140	261	0.
1		0300	37	451.	1		0915	112	19.	1		1530	187	0.	1		2145	262	0.
1		0305	38	522.	1		0920	113	15.	1		1535	188	0.	1		2150	263	0.
1		0310	39	629.	1		0925	114	12.	1		1540	189	0.	1		2155	264	0.
1		0315	40	793.	1		0930	115	9.	1		1545	190	0.	1		2200	265	0.
1		0320	41	1064.	1		0935	116	7.	1		1550	191	0.	1		2205	266	0.
1		0325	42	1505.	1		0940	117	5.	1		1555	192	0.	1		2210	267	0.
1		0330	43	2122.	1		0945	118	4.	1		1600	193	0.	1		2215	268	0.
1		0335	44	2798.	1		0950	119	3.	1		1605	194	0.	1		2220	269	0.
1		0340	45	3300.	1		0955	120	2.	1		1610	195	0.	1		2225	270	0.
1		0345	46	3684.	1		1000	121	2.	1		1615	196	0.	1		2230	271	0.
1		0350	47	4136.	1		1005	122	1.	1		1620	197	0.	1		2235	272	0.
1		0355	48	4708.	1		1010	123	1.	1		1625	198	0.	1		2240	273	0.
1		0400	49	5425.	1		1015	124	1.	1		1630	199	0.	1		2245	274	0.
1		0405	50	6278.	1		1020	125	1.	1		1635	200	0.	1		2250	275	0.
1		0410	51	7205.	1		1025	126	0.	1		1640	201	0.	1		2255	276	0.
1		0415	52	8191.	1		1030	127	0.	1		1645	202	0.	1		2300	277	0.
1		0420	53	9264.	1		1035	128	0.	1		1650	203	0.	1		2305	278	0.
1		0425	54	10423.	1		1040	129	0.	1		1655	204	0.	1		2310	279	0.
1		0430	55	11655.	1		1045	130	0.	1		1700	205	0.	1		2315	280	0.
1		0435	56	12918.	1		1050	131	0.	1		1705	206	0.	1		2320	281	0.
1		0440	57	14108.	1		1055	132	0.	1		1710	207	0.	1		2325	282	0.
1		0445	58	15123.	1		1100	133	0.	1		1715	208	0.	1		2330	283	0.
1		0450	59	15923.	1		1105	134	0.	1		1720	209	0.	1		2335	284	0.
1		0455	60	16473.	1		1110	135	0.	1		1725	210	0.	1		2340	285	0.
1		0500	61	16704.	1		1115	136	0.	1		1730	211	0.	1		2345	286	0.
1		0505	62	16599.	1		1120	137	0.	1		1735	212	0.	1		2350	287	0.
1		0510	63	16201.	1		1125	138	0.	1		1740	213	0.	1		2355	288	0.
1		0515	64	15573.	1		1130	139	0.	1		1745	214	0.	2		0000	289	0.
1		0520	65	14787.	1		1135	140	0.	1		1750	215	0.	2		0005	290	0.
1		0525	66	13913.	1		1140	141	0.	1		1755	216	0.	2		0010	291	0.
1		0530	67	13012.	1		1145	142	0.	1		1800	217	0.	2		0015	292	0.

1	0535	68	12130.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.					
1	0540	69	11299.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.					
1	0545	70	10540.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.					
1	0550	71	9858.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.					
1	0555	72	9236.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.					
1	0600	73	8657.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.					
1	0605	74	8102.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.					
1	0610	75	7555.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.					

PEAK FLOW AND TIME AND MAXIMUM AVERAGE FLOW

	PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
+	(CFS)	(HR)				
			(CFS)			
+	16704.	5.00	5625.	1411.	1359.	1359.
			(INCHES) .956	.959	.959	.959
			(AC-FT) 2789.	2798.	2798.	2798.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .93

1	0000	1	0.	*	1	0615	76	6741.	*	1	1230	151	0.	*	1	1845	226	0.					
1	0005	2	0.	*	1	0620	77	6207.	*	1	1235	152	0.	*	1	1850	227	0.					
1	0010	3	0.	*	1	0625	78	5669.	*	1	1240	153	0.	*	1	1855	228	0.					
1	0015	4	0.	*	1	0630	79	5133.	*	1	1245	154	0.	*	1	1900	229	0.					
1	0020	5	0.	*	1	0635	80	4609.	*	1	1250	155	0.	*	1	1905	230	0.					
1	0025	6	0.	*	1	0640	81	4106.	*	1	1255	156	0.	*	1	1910	231	0.					
1	0030	7	0.	*	1	0645	82	3632.	*	1	1300	157	0.	*	1	1915	232	0.					
1	0035	8	1.	*	1	0650	83	3196.	*	1	1305	158	0.	*	1	1920	233	0.					
1	0040	9	2.	*	1	0655	84	2799.	*	1	1310	159	0.	*	1	1925	234	0.					
1	0045	10	2.	*	1	0700	85	2442.	*	1	1315	160	0.	*	1	1930	235	0.					
1	0050	11	2.	*	1	0705	86	2125.	*	1	1320	161	0.	*	1	1935	236	0.					
1	0055	12	1.	*	1	0710	87	1845.	*	1	1325	162	0.	*	1	1940	237	0.					
1	0100	13	1.	*	1	0715	88	1597.	*	1	1330	163	0.	*	1	1945	238	0.					
1	0105	14	1.	*	1	0720	89	1378.	*	1	1335	164	0.	*	1	1950	239	0.					
1	0110	15	1.	*	1	0725	90	1186.	*	1	1340	165	0.	*	1	1955	240	0.					
1	0115	16	2.	*	1	0730	91	1016.	*	1	1345	166	0.	*	1	2000	241	0.					
1	0120	17	4.	*	1	0735	92	867.	*	1	1350	167	0.	*	1	2005	242	0.					
1	0125	18	5.	*	1	0740	93	736.	*	1	1355	168	0.	*	1	2010	243	0.					
1	0130	19	9.	*	1	0745	94	621.	*	1	1400	169	0.	*	1	2015	244	0.					
1	0135	20	15.	*	1	0750	95	522.	*	1	1405	170	0.	*	1	2020	245	0.					
1	0140	21	22.	*	1	0755	96	437.	*	1	1410	171	0.	*	1	2025	246	0.					
1	0145	22	26.	*	1	0800	97	364.	*	1	1415	172	0.	*	1	2030	247	0.					
1	0150	23	29.	*	1	0805	98	302.	*	1	1420	173	0.	*	1	2035	248	0.					
1	0155	24	29.	*	1	0810	99	250.	*	1	1425	174	0.	*	1	2040	249	0.					
1	0200	25	30.	*	1	0815	100	206.	*	1	1430	175	0.	*	1	2045	250	0.					
1	0205	26	32.	*	1	0820	101	169.	*	1	1435	176	0.	*	1	2050	251	0.					
1	0210	27	41.	*	1	0825	102	139.	*	1	1440	177	0.	*	1	2055	252	0.					
1	0215	28	59.	*	1	0830	103	115.	*	1	1445	178	0.	*	1	2100	253	0.					
1	0220	29	87.	*	1	0835	104	94.	*	1	1450	179	0.	*	1	2105	254	0.					
1	0225	30	120.	*	1	0840	105	77.	*	1	1455	180	0.	*	1	2110	255	0.					
1	0230	31	149.	*	1	0845	106	63.	*	1	1500	181	0.	*	1	2115	256	0.					
1	0235	32	174.	*	1	0850	107	52.	*	1	1505	182	0.	*	1	2120	257	0.					
1	0240	33	202.	*	1	0855	108	42.	*	1	1510	183	0.	*	1	2125	258	0.					
1	0245	34	245.	*	1	0900	109	35.	*	1	1515	184	0.	*	1	2130	259	0.					
1	0250	35	297.	*	1	0905	110	28.	*	1	1520	185	0.	*	1	2135	260	0.					
1	0255	36	347.	*	1	0910	111	23.	*	1	1525	186	0.	*	1	2140	261	0.					
1	0300	37	396.	*	1	0915	112	18.	*	1	1530	187	0.	*	1	2145	262	0.					
1	0305	38	461.	*	1	0920	113	14.	*	1	1535	188	0.	*	1	2150	263	0.					
1	0310	39	560.	*	1	0925	114	11.	*	1	1540	189	0.	*	1	2155	264	0.					
1	0315	40	714.	*	1	0930	115	9.	*	1	1545	190	0.	*	1	2200	265	0.					
1	0320	41	969.	*	1	0935	116	7.	*	1	1550	191	0.	*	1	2205	266	0.					
1	0325	42	1388.	*	1	0940	117	5.	*	1	1555	192	0.	*	1	2210	267	0.					
1	0330	43	1975.	*	1	0945	118	4.	*	1	1600	193	0.	*	1	2215	268	0.					
1	0335	44	2618.	*	1	0950	119	3.	*	1	1605	194	0.	*	1	2220	269	0.					
1	0340	45	3098.	*	1	0955	120	2.	*	1	1610	195	0.	*	1	2225	270	0.					
1	0345	46	3467.	*	1	1000	121	2.	*	1	1615	196	0.	*	1	2230	271	0.					
1	0350	47	3897.	*	1	1005	122	1.	*	1	1620	197	0.	*	1	2235	272	0.					
1	0355	48	4442.	*	1	1010	123	1.	*	1	1625	198	0.	*	1	2240	273	0.					
1	0400	49	5127.	*	1	1015	124	1.	*	1	1630	199	0.	*	1	2245	274	0.					
1	0405	50	5941.	*	1	1020	125	1.	*	1	1635	200	0.	*	1	2250	275	0.					
1	0410	51	6832.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.					
1	0415	52	7778.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.					
1	0420	53	8807.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.					
1	0425	54	9919.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.					
1	0430	55	11101.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.					
1	0435	56	12314.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.					
1	0440	57	13458.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.					
1	0445	58	14435.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.					
1	0450	59	15208.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.					
1	0455	60	15743.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.					
1	0500	61	15974.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.					
1	0505	62	15883.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.					

1	0510	63	15510.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.					
1	0515	64	14917.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.					
1	0520	65	14171.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.					
1	0525	66	13340.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.					
1	0530	67	12482.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.					
1	0535	68	11641.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.					
1	0540	69	10848.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.					
1	0545	70	10124.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.					
1	0550	71	9472.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.					
1	0555	72	8878.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.					
1	0600	73	8324.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.					
1	0605	74	7793.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.					
1	0610	75	7269.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.					

PEAK FLOW AND TIME AND MAXIMUM AVERAGE FLOW

	PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
+	(CFS)	(HR)				
			(CFS)			
+	15974.	5.00	5375.	1348.	1298.	1298.
			(INCHES) .913	.916	.916	.916
			(AC-FT) 2665.	2673.	2673.	2673.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .92

1	0000	1	0.	*	1	0615	76	6636.	*	1	1230	151	0.	*	1	1845	226	0.					
1	0005	2	0.	*	1	0620	77	6111.	*	1	1235	152	0.	*	1	1850	227	0.					
1	0010	3	0.	*	1	0625	78	5582.	*	1	1240	153	0.	*	1	1855	228	0.					
1	0015	4	0.	*	1	0630	79	5055.	*	1	1245	154	0.	*	1	1900	229	0.					
1	0020	5	0.	*	1	0635	80	4539.	*	1	1250	155	0.	*	1	1905	230	0.					
1	0025	6	0.	*	1	0640	81	4043.	*	1	1255	156	0.	*	1	1910	231	0.					
1	0030	7	0.	*	1	0645	82	3577.	*	1	1300	157	0.	*	1	1915	232	0.					
1	0035	8	0.	*	1	0650	83	3147.	*	1	1305	158	0.	*	1	1920	233	0.					
1	0040	9	1.	*	1	0655	84	2757.	*	1	1310	159	0.	*	1	1925	234	0.					
1	0045	10	2.	*	1	0700	85	2406.	*	1	1315	160	0.	*	1	1930	235	0.					
1	0050	11	2.	*	1	0705	86	2093.	*	1	1320	161	0.	*	1	1935	236	0.					
1	0055	12	1.	*	1	0710	87	1817.	*	1	1325	162	0.	*	1	1940	237	0.					
1	0100	13	1.	*	1	0715	88	1573.	*	1	1330	163	0.	*	1	1945	238	0.					
1	0105	14	0.	*	1	0720	89	1358.	*	1	1335	164	0.	*	1	1950	239	0.					
1	0110	15	1.	*	1	0725	90	1168.	*	1	1340	165	0.	*	1	1955	240	0.					
1	0115	16	2.	*	1	0730	91	1001.	*	1	1345	166	0.	*	1	2000	241	0.					
1	0120	17	3.	*	1	0735	92	854.	*	1	1350	167	0.	*	1	2005	242	0.					
1	0125	18	5.	*	1	0740	93	725.	*	1	1355	168	0.	*	1	2010	243	0.					
1	0130	19	9.	*	1	0745	94	612.	*	1	1400	169	0.	*	1	2015	244	0.					
1	0135	20	15.	*	1	0750	95	515.	*	1	1405	170	0.	*	1	2020	245	0.					
1	0140	21	21.	*	1	0755	96	430.	*	1	1410	171	0.	*	1	2025	246	0.					
1	0145	22	25.	*	1	0800	97	359.	*	1	1415	172	0.	*	1	2030	247	0.					
1	0150	23	27.	*	1	0805	98	297.	*	1	1420	173	0.	*	1	2035	248	0.					
1	0155	24	27.	*	1	0810	99	246.	*	1	1425	174	0.	*	1	2040	249	0.					
1	0200	25	27.	*	1	0815	100	203.	*	1	1430	175	0.	*	1	2045	250	0.					
1	0205	26	30.	*	1	0820	101	167.	*	1	1435	176	0.	*	1	2050	251	0.					
1	0210	27	37.	*	1	0825	102	137.	*	1	1440	177	0.	*	1	2055	252	0.					
1	0215	28	54.	*	1	0830	103	113.	*	1	1445	178	0.	*	1	2100	253	0.					
1	0220	29	81.	*	1	0835	104	93.	*	1	1450	179	0.	*	1	2105	254	0.					
1	0225	30	112.	*	1	0840	105	76.	*	1	1455	180	0.	*	1	2110	255	0.					
1	0230	31	139.	*	1	0845	106	62.	*	1	1500	181	0.	*	1	2115	256	0.					
1	0235	32	162.	*	1	0850	107	51.	*	1	1505	182	0.	*	1	2120	257	0.					
1	0240	33	190.	*	1	0855	108	42.	*	1	1510	183	0.	*	1	2125	258	0.					
1	0245	34	231.	*	1	0900	109	34.	*	1	1515	184	0.	*	1	2130	259	0.					
1	0250	35	280.	*	1	0905	110	28.	*	1	1520	185	0.	*	1	2135	260	0.					
1	0255	36	328.	*	1	0910	111	22.	*	1	1525	186	0.	*	1	2140	261	0.					
1	0300	37	374.	*	1	0915	112	18.	*	1	1530	187	0.	*	1	2145	262	0.					
1	0305	38	437.	*	1	0920	113	14.	*	1	1535	188	0.	*	1	2150	263	0.					
1	0310	39	534.	*	1	0925	114	11.	*	1	1540	189	0.	*	1	2155	264	0.					
1	0315	40	684.	*	1	0930	115	9.	*	1	1545	190	0.	*	1	2200	265	0.					
1	0320	41	933.	*	1	0935	116	7.	*	1	1550	191	0.	*	1	2205	266	0.					
1	0325	42	1338.	*	1	0940	117	5.	*	1	1555	192	0.	*	1	2210	267	0.					
1	0330	43	1909.	*	1	0945	118	4.	*	1	1600	193	0.	*	1	2215	268	0.					
1	0335	44	2548.	*	1	0950	119	3.	*	1	1605	194	0.	*	1	2220	269	0.					
1	0340	45	3028.	*	1	0955	120	2.	*	1	1610	195	0.	*	1	2225	270	0.					
1	0345	46	3389.	*	1	1000	121	2.	*	1	1615	196	0.	*	1	2230	271	0.					
1	0350	47	3806.	*	1	1005	122	1.	*	1	1620	197	0.	*	1	2235	272	0.					
1	0355	48	4339.	*	1	1010	123	1.	*	1	1625	198	0.	*	1	2240	273	0.					
1	0400	49	5009.	*	1	1015	124	1.	*	1	1630	199	0.	*	1	2245	274	0.					
1	0405	50	5810.	*	1	1020	125	1.	*	1	1635	200	0.	*	1	2250	275	0.					
1	0410	51	6682.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.					
1	0415	52	7611.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.					
1	0420	53	8622.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.					
1	0425	54	9714.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.					
1	0430	55	10876.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.					
1	0435	56	12070.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.					
1	0440	57	13198.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.					

1	0445	58	14161.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.					
1	0450	59	14924.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.					
1	0455	60	15453.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.					
1	0500	61	15683.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.					
1	0505	62	15598.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.					
1	0510	63	15235.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.					
1	0515	64	14655.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.					
1	0520	65	13925.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.					
1	0525	66	13111.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.					
1	0530	67	12271.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.					
1	0535	68	11446.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.					
1	0540	69	10668.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.					
1	0545	70	9958.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.					
1	0550	71	9318.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.					
1	0555	72	8736.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.					
1	0600	73	8191.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.					
1	0605	74	7670.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.					
1	0610	75	7155.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.					

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 15683.	5.00	5275.	1323.	1274.	1274.
		(INCHES) .896	.899	.899	.899
		(AC-FT) 2616.	2623.	2623.	2623.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .91

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1	0000		1	0.	*	1	0615		76	6562.	*	1	1230		151	0.	*	1	1845		226	0.
1	0005		2	0.	*	1	0620		77	6043.	*	1	1235		152	0.	*	1	1850		227	0.
1	0010		3	0.	*	1	0625		78	5520.	*	1	1240		153	0.	*	1	1855		228	0.
1	0015		4	0.	*	1	0630		79	5000.	*	1	1245		154	0.	*	1	1900		229	0.
1	0020		5	0.	*	1	0635		80	4490.	*	1	1250		155	0.	*	1	1905		230	0.
1	0025		6	0.	*	1	0640		81	4000.	*	1	1255		156	0.	*	1	1910		231	0.
1	0030		7	0.	*	1	0645		82	3539.	*	1	1300		157	0.	*	1	1915		232	0.
1	0035		8	0.	*	1	0650		83	3114.	*	1	1305		158	0.	*	1	1920		233	0.
1	0040		9	1.	*	1	0655		84	2727.	*	1	1310		159	0.	*	1	1925		234	0.
1	0045		10	2.	*	1	0700		85	2380.	*	1	1315		160	0.	*	1	1930		235	0.
1	0050		11	2.	*	1	0705		86	2071.	*	1	1320		161	0.	*	1	1935		236	0.
1	0055		12	1.	*	1	0710		87	1798.	*	1	1325		162	0.	*	1	1940		237	0.
1	0100		13	1.	*	1	0715		88	1556.	*	1	1330		163	0.	*	1	1945		238	0.
1	0105		14	0.	*	1	0720		89	1343.	*	1	1335		164	0.	*	1	1950		239	0.
1	0110		15	1.	*	1	0725		90	1156.	*	1	1340		165	0.	*	1	1955		240	0.
1	0115		16	2.	*	1	0730		91	990.	*	1	1345		166	0.	*	1	2000		241	0.
1	0120		17	3.	*	1	0735		92	845.	*	1	1350		167	0.	*	1	2005		242	0.
1	0125		18	5.	*	1	0740		93	717.	*	1	1355		168	0.	*	1	2010		243	0.
1	0130		19	8.	*	1	0745		94	606.	*	1	1400		169	0.	*	1	2015		244	0.
1	0135		20	14.	*	1	0750		95	509.	*	1	1405		170	0.	*	1	2020		245	0.
1	0140		21	20.	*	1	0755		96	426.	*	1	1410		171	0.	*	1	2025		246	0.
1	0145		22	24.	*	1	0800		97	355.	*	1	1415		172	0.	*	1	2030		247	0.
1	0150		23	26.	*	1	0805		98	294.	*	1	1420		173	0.	*	1	2035		248	0.
1	0155		24	26.	*	1	0810		99	243.	*	1	1425		174	0.	*	1	2040		249	0.
1	0200		25	26.	*	1	0815		100	201.	*	1	1430		175	0.	*	1	2045		250	0.
1	0205		26	28.	*	1	0820		101	165.	*	1	1435		176	0.	*	1	2050		251	0.
1	0210		27	35.	*	1	0825		102	136.	*	1	1440		177	0.	*	1	2055		252	0.
1	0215		28	51.	*	1	0830		103	112.	*	1	1445		178	0.	*	1	2100		253	0.
1	0220		29	77.	*	1	0835		104	92.	*	1	1450		179	0.	*	1	2105		254	0.
1	0225		30	106.	*	1	0840		105	75.	*	1	1455		180	0.	*	1	2110		255	0.
1	0230		31	133.	*	1	0845		106	62.	*	1	1500		181	0.	*	1	2115		256	0.
1	0235		32	155.	*	1	0850		107	51.	*	1	1505		182	0.	*	1	2120		257	0.
1	0240		33	181.	*	1	0855		108	41.	*	1	1510		183	0.	*	1	2125		258	0.
1	0245		34	220.	*	1	0900		109	34.	*	1	1515		184	0.	*	1	2130		259	0.
1	0250		35	268.	*	1	0905		110	27.	*	1	1520		185	0.	*	1	2135		260	0.
1	0255		36	315.	*	1	0910		111	22.	*	1	1525		186	0.	*	1	2140		261	0.
1	0300		37	360.	*	1	0915		112	18.	*	1	1530		187	0.	*	1	2145		262	0.
1	0305		38	421.	*	1	0920		113	14.	*	1	1535		188	0.	*	1	2150		263	0.
1	0310		39	516.	*	1	0925		114	11.	*	1	1540		189	0.	*	1	2155		264	0.
1	0315		40	663.	*	1	0930		115	9.	*	1	1545		190	0.	*	1	2200		265	0.
1	0320		41	908.	*	1	0935		116	7.	*	1	1550		191	0.	*	1	2205		266	0.
1	0325		42	1308.	*	1	0940		117	5.	*	1	1555		192	0.	*	1	2210		267	0.
1	0330		43	1872.	*	1	0945		118	4.	*	1	1600		193	0.	*	1	2215		268	0.
1	0335		44	2501.	*	1	0950		119	3.	*	1	1605		194	0.	*	1	2220		269	0.
1	0340		45	2969.	*	1	0955		120	2.	*	1	1610		195	0.	*	1	2225		270	0.
1	0345		46	3323.	*	1	1000		121	2.	*	1	1615		196	0.	*	1	2230		271	0.
1	0350		47	3737.	*	1	1005		122	1.	*	1	1620		197	0.	*	1	2235		272	0.
1	0355		48	4265.	*	1	1010		123	1.	*	1	1625		198	0.	*	1	2240		273	0.
1	0400		49	4928.	*	1	1015		124	1.	*	1	1630		199	0.	*	1	2245		274	0.
1	0405		50	5718.	*	1	1020		125	1.	*	1	1635		200	0.	*	1	2250		275	0.
1	0410		51	6579.	*	1	1025		126	0.	*	1	1640		201	0.	*	1	2255		276	0.
1	0415		52	7498.	*	1	1030		127	0.	*	1	1645		202	0.	*	1	2300		277	0.

1	0420	53	8497.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.					
1	0425	54	9577.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.					
1	0430	55	10726.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.					
1	0435	56	11904.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.					
1	0440	57	13017.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.					
1	0445	58	13971.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.					
1	0450	59	14726.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.					
1	0455	60	15251.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.					
1	0500	61	15482.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.					
1	0505	62	15398.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.					
1	0510	63	15043.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.					
1	0515	64	14473.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.					
1	0520	65	13754.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.					
1	0525	66	12951.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.					
1	0530	67	12122.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.					
1	0535	68	11309.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.					
1	0540	69	10542.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.					
1	0545	70	9841.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.					
1	0550	71	9210.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.					
1	0555	72	8635.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.					
1	0600	73	8098.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.					
1	0605	74	7583.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.					
1	0610	75	7074.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.					

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 15482.	5.00	5206.	1305.	1257.	1257.
		(INCHES) .884	.887	.887	.887
		(AC-FT) 2581.	2589.	2589.	2589.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .90

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1	0000		1	0.	*	1	0615		76	6510.	*	1	1230		151	0.	*	1	1845		226	0.
1	0005		2	0.	*	1	0620		77	5995.	*	1	1235		152	0.	*	1	1850		227	0.
1	0010		3	0.	*	1	0625		78	5477.	*	1	1240		153	0.	*	1	1855		228	0.
1	0015		4	0.	*	1	0630		79	4960.	*	1	1245		154	0.	*	1	1900		229	0.
1	0020		5	0.	*	1	0635		80	4454.	*	1	1250		155	0.	*	1	1905		230	0.
1	0025		6	0.	*	1	0640		81	3968.	*	1	1255		156	0.	*	1	1910		231	0.
1	0030		7	0.	*	1	0645		82	3511.	*	1	1300		157	0.	*	1	1915		232	0.
1	0035		8	0.	*	1	0650		83	3089.	*	1	1305		158	0.	*	1	1920		233	0.
1	0040		9	1.	*	1	0655		84	2706.	*	1	1310		159	0.	*	1	1925		234	0.
1	0045		10	2.	*	1	0700		85	2362.	*	1	1315		160	0.	*	1	1930		235	0.
1	0050		11	2.	*	1	0705		86	2055.	*	1	1320		161	0.	*	1	1935		236	0.
1	0055		12	1.	*	1	0710		87	1784.	*	1	1325		162	0.	*	1	1940		237	0.
1	0100		13	1.	*	1	0715		88	1545.	*	1	1330		163	0.	*	1	1945		238	0.
1	0105		14	0.	*	1	0720		89	1333.	*	1	1335		164	0.	*	1	1950		239	0.
1	0110		15	1.	*	1	0725		90	1147.	*	1	1340		165	0.	*	1	1955		240	0.
1	0115		16	2.	*	1	0730		91	983.	*	1	1345		166	0.	*	1	2000		241	0.
1	0120		17	3.	*	1	0735		92	838.	*	1	1350		167	0.	*	1	2005		242	0.
1	0125		18	5.	*	1	0740		93	712.	*	1	1355		168	0.	*	1	2010		243	0.
1	0130		19	8.	*	1	0745		94	601.	*	1	1400		169	0.	*	1	2015		244	0.
1	0135		20	14.	*	1	0750		95	505.	*	1	1405		170	0.	*	1	2020		245	0.
1	0140		21	19.	*	1	0755		96	423.	*	1	1410		171	0.	*	1	2025		246	0.
1	0145		22	23.	*	1	0800		97	352.	*	1	1415		172	0.	*	1	2030		247	0.
1	0150		23	25.	*	1	0805		98	292.	*	1	1420		173	0.	*	1	2035		248	0.
1	0155		24	25.	*	1	0810		99	242.	*	1	1425		174	0.	*	1	2040		249	0.
1	0200		25	25.	*	1	0815		100	199.	*	1	1430		175	0.	*	1	2045		250	0.
1	0205		26	27.	*	1	0820		101	164.	*	1	1435		176	0.	*	1	2050		251	0.
1	0210		27	34.	*	1	0825		102	135.	*	1	1440		177	0.	*	1	2055		252	0.
1	0215		28	49.	*	1	0830		103	111.	*	1	1445		178	0.	*	1	2100		253	0.
1	0220		29	74.	*	1	0835		104	91.	*	1	1450		179	0.	*	1	2105		254	0.
1	0225		30	103.	*	1	0840		105	75.	*	1	1455		180	0.	*	1	2110		255	0.
1	0230		31	128.	*	1	0845		106	61.	*	1	1500		181	0.	*	1	2115		256	0.
1	0235		32	150.	*	1	0850		107	50.	*	1	1505		182	0.	*	1	2120		257	0.
1	0240		33	175.	*	1	0855		108	41.	*	1	1510		183	0.	*	1	2125		258	0.
1	0245		34	213.	*	1	0900		109	34.	*	1	1515		184	0.	*	1	2130		259	0.
1	0250		35	260.	*	1	0905		110	27.	*	1	1520		185	0.	*	1	2135		260	0.
1	0255		36	305.	*	1	0910		111	22.	*	1	1525		186	0.	*	1	2140		261	0.
1	0300		37	350.	*	1	0915		112	18.	*	1	1530		187	0.	*	1	2145		262	0.
1	0305		38	411.	*	1	0920		113	14.	*	1	1535		188	0.	*	1	2150		263	0.
1	0310		39	504.	*	1	0925		114	11.	*	1	1540		189	0.	*	1	2155		264	0.
1	0315		40	648.	*	1	0930		115	8.	*	1	1545		190	0.	*	1	2200		265	0.
1	0320		41	887.	*	1	0935		116	7.	*	1	1550		191	0.	*	1	2205		266	0.
1	0325		42	1284.	*	1	0940		117	5.	*	1	1555		192	0.	*	1	2210		267	0.
1	0330		43	1844.	*	1	0945		118	4.	*	1	1600		193	0.	*	1	2215		268	0.
1	0335		44	2464.	*	1	0950		119	3.	*	1	1605		194	0.	*	1	2220		269	0.
1	0340		45	2928.	*	1	0955		120	2.	*	1	1610		195	0.	*	1	2225		270	0.
1	0345		46	3281.	*	1	1000		121	2.	*	1	1615		196	0.	*	1	2230		271	0.
1	0350		47	3690.	*	1	1005		122	1.	*	1	1620		197	0.	*	1	2235		272	0.

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0355	48	4212.	1		1010	123	1.	1		1625	198	0.	1		2240	273	0.
1		0400	49	4869.	1		1015	124	1.	1		1630	199	0.	1		2245	274	0.
1		0405	50	5653.	1		1020	125	1.	1		1635	200	0.	1		2250	275	0.
1		0410	51	6507.	1		1025	126	0.	1		1640	201	0.	1		2255	276	0.
1		0415	52	7416.	1		1030	127	0.	1		1645	202	0.	1		2300	277	0.
1		0420	53	8406.	1		1035	128	0.	1		1650	203	0.	1		2305	278	0.
1		0425	54	9475.	1		1040	129	0.	1		1655	204	0.	1		2310	279	0.
1		0430	55	10613.	1		1045	130	0.	1		1700	205	0.	1		2315	280	0.
1		0435	56	11782.	1		1050	131	0.	1		1705	206	0.	1		2320	281	0.
1		0440	57	12888.	1		1055	132	0.	1		1710	207	0.	1		2325	282	0.
1		0445	58	13835.	1		1100	133	0.	1		1715	208	0.	1		2330	283	0.
1		0450	59	14585.	1		1105	134	0.	1		1720	209	0.	1		2335	284	0.
1		0455	60	15107.	1		1110	135	0.	1		1725	210	0.	1		2340	285	0.
1		0500	61	15336.	1		1115	136	0.	1		1730	211	0.	1		2345	286	0.
1		0505	62	15256.	1		1120	137	0.	1		1735	212	0.	1		2350	287	0.
1		0510	63	14905.	1		1125	138	0.	1		1740	213	0.	1		2355	288	0.
1		0515	64	14342.	1		1130	139	0.	1		1745	214	0.	2		0000	289	0.
1		0520	65	13631.	1		1135	140	0.	1		1750	215	0.	2		0005	290	0.
1		0525	66	12837.	1		1140	141	0.	1		1755	216	0.	2		0010	291	0.
1		0530	67	12017.	1		1145	142	0.	1		1800	217	0.	2		0015	292	0.
1		0535	68	11212.	1		1150	143	0.	1		1805	218	0.	2		0020	293	0.
1		0540	69	10452.	1		1155	144	0.	1		1810	219	0.	2		0025	294	0.
1		0545	70	9759.	1		1200	145	0.	1		1815	220	0.	2		0030	295	0.
1		0550	71	9134.	1		1205	146	0.	1		1820	221	0.	2		0035	296	0.
1		0555	72	8564.	1		1210	147	0.	1		1825	222	0.	2		0040	297	0.
1		0600	73	8032.	1		1215	148	0.	1		1830	223	0.	2		0045	298	0.
1		0605	74	7522.	1		1220	149	0.	1		1835	224	0.	2		0050	299	0.
1		0610	75	7018.	1		1225	150	0.	1		1840	225	0.	2		0055	300	0.

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW				
		6-HR	24-HR	72-HR	24.92-HR	
(CFS)	(HR)					
		(CFS)				
15336.	5.00	5156.	1293.	1245.	1245.	
		(INCHES)	.876	.878	.878	.878
		(AC-FT)	2557.	2564.	2564.	2564.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .89

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	6426.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	5919.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	5407.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	4897.	1		1245	154	0.	1		1900	229	0.
1		0020	5	0.	1		0635	80	4398.	1		1250	155	0.	1		1905	230	0.
1		0025	6	0.	1		0640	81	3918.	1		1255	156	0.	1		1910	231	0.
1		0030	7	0.	1		0645	82	3467.	1		1300	157	0.	1		1915	232	0.
1		0035	8	0.	1		0650	83	3051.	1		1305	158	0.	1		1920	233	0.
1		0040	9	1.	1		0655	84	2672.	1		1310	159	0.	1		1925	234	0.
1		0045	10	2.	1		0700	85	2332.	1		1315	160	0.	1		1930	235	0.
1		0050	11	1.	1		0705	86	2030.	1		1320	161	0.	1		1935	236	0.
1		0055	12	1.	1		0710	87	1762.	1		1325	162	0.	1		1940	237	0.
1		0100	13	1.	1		0715	88	1525.	1		1330	163	0.	1		1945	238	0.
1		0105	14	0.	1		0720	89	1317.	1		1335	164	0.	1		1950	239	0.
1		0110	15	1.	1		0725	90	1133.	1		1340	165	0.	1		1955	240	0.
1		0115	16	2.	1		0730	91	971.	1		1345	166	0.	1		2000	241	0.
1		0120	17	3.	1		0735	92	828.	1		1350	167	0.	1		2005	242	0.
1		0125	18	4.	1		0740	93	703.	1		1355	168	0.	1		2010	243	0.
1		0130	19	8.	1		0745	94	594.	1		1400	169	0.	1		2015	244	0.
1		0135	20	13.	1		0750	95	499.	1		1405	170	0.	1		2020	245	0.
1		0140	21	19.	1		0755	96	418.	1		1410	171	0.	1		2025	246	0.
1		0145	22	22.	1		0800	97	348.	1		1415	172	0.	1		2030	247	0.
1		0150	23	24.	1		0805	98	289.	1		1420	173	0.	1		2035	248	0.
1		0155	24	24.	1		0810	99	239.	1		1425	174	0.	1		2040	249	0.
1		0200	25	23.	1		0815	100	197.	1		1430	175	0.	1		2045	250	0.
1		0205	26	25.	1		0820	101	162.	1		1435	176	0.	1		2050	251	0.
1		0210	27	31.	1		0825	102	133.	1		1440	177	0.	1		2055	252	0.
1		0215	28	46.	1		0830	103	110.	1		1445	178	0.	1		2100	253	0.
1		0220	29	70.	1		0835	104	90.	1		1450	179	0.	1		2105	254	0.
1		0225	30	97.	1		0840	105	74.	1		1455	180	0.	1		2110	255	0.
1		0230	31	122.	1		0845	106	61.	1		1500	181	0.	1		2115	256	0.
1		0235	32	141.	1		0850	107	50.	1		1505	182	0.	1		2120	257	0.
1		0240	33	165.	1		0855	108	41.	1		1510	183	0.	1		2125	258	0.
1		0245	34	202.	1		0900	109	33.	1		1515	184	0.	1		2130	259	0.
1		0250	35	247.	1		0905	110	27.	1		1520	185	0.	1		2135	260	0.
1		0255	36	290.	1		0910	111	22.	1		1525	186	0.	1		2140	261	0.
1		0300	37	334.	1		0915	112	17.	1		1530	187	0.	1		2145	262	0.
1		0305	38	392.	1		0920	113	14.	1		1535	188	0.	1		2150	263	0.
1		0310	39	482.	1		0925	114	11.	1		1540	189	0.	1		2155	264	0.
1		0315	40	623.	1		0930	115	8.	1		1545	190	0.	1		2200	265	0.
1		0320	41	860.	1		0935	116	6.	1		1550	191	0.	1		2205	266	0.
1		0325	42	1246.	1		0940	117	5.	1		1555	192	0.	1		2210	267	0.

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0330	43	1795.	1		0945	118	4.	1		1600	193	0.	1		2215	268	0.
1		0335	44	2407.	1		0950	119	3.	1		1605	194	0.	1		2220	269	0.
1		0340	45	2870.	1		0955	120	2.	1		1610	195	0.	1		2225	270	0.
1		0345	46	3217.	1		1000	121	2.	1		1615	196	0.	1		2230	271	0.
1		0350	47	3619.	1		1005	122	1.	1		1620	197	0.	1		2235	272	0.
1		0355	48	4130.	1		1010	123	1.	1		1625	198	0.	1		2240	273	0.
1		0400	49	4776.	1		1015	124	1.	1		1630	199	0.	1		2245	274	0.
1		0405	50	5547.	1		1020	125	1.	1		1635	200	0.	1		2250	275	0.
1		0410	51	6388.	1		1025	126	0.	1		1640	201	0.	1		2255	276	0.
1		0415	52	7283.	1		1030	127	0.	1		1645	202	0.	1		2300	277	0.
1		0420	53	8259.	1		1035	128	0.	1		1650	203	0.	1		2305	278	0.
1		0425	54	9314.	1		1040	129	0.	1		1655	204	0.	1		2310	279	0.
1		0430	55	10438.	1		1045	130	0.	1		1700	205	0.	1		2315	280	0.
1		0435	56	11592.	1		1050	131	0.	1		1705	206	0.	1		2320	281	0.
1		0440	57	12683.	1		1055	132	0.	1		1710	207	0.	1		2325	282	0.
1		0445	58	13617.	1		1100	133	0.	1		1715	208	0.	1		2330	283	0.
1		0450	59	14358.	1		1105	134	0.	1		1720	209	0.	1		2335	284	0.
1		0455	60	14876.	1		1110	135	0.	1		1725	210	0.	1		2340	285	0.
1		0500	61	15106.	1		1115	136	0.	1		1730	211	0.	1		2345	286	0.
1		0505	62	15030.	1		1120	137	0.	1		1735	212	0.	1		2350	287	0.
1		0510	63	14687.	1		1125	138	0.	1		1740	213	0.	1		2355	288	0.
1		0515	64	14134.	1		1130	139	0.	1		1745	214	0.	2		0000	289	0.
1		0520	65	13436.	1		1135	140	0.	1		1750	215	0.	2		0005	290	0.
1		0525	66	12655.	1		1140	141	0.	1		1755	216	0.	2		0010	291	0.
1		0530	67	11848.	1		1145	142	0.	1		1800	217	0.	2		0015	292	0.
1		0535	68	11056.	1		1150	143	0.	1		1805	218	0.	2		0020	293	0.
1		0540	69	10309.	1		1155	144	0.	1		1810	219	0.	2		0025	294	0.
1		0545	70	9626.	1		1200	145	0.	1		1815	220	0.	2		0030	295	0.
1		0550	71	9011.	1		1205	146	0.	1		1820	221	0.	2		0035	296	0.
1		0555	72	8450.	1		1210	147	0.	1		1825	222	0.	2		0040	297	0.
1		0600	73	7926.	1		1215	148	0.	1		1830	223	0.	2		0045	298	0.
1		0605	74	7424.	1		1220	149	0.	1		1835	224	0.	2		0050	299	0.
1		0610	75	6927.	1		1225	150	0.	1		1840	225	0.	2		0055	300	0.

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW				
		6-HR	24-HR	72-HR	24.92-HR	
(CFS)	(HR)					
		(CFS)				
15106.	5.00	5077.	1273.	1226.	1226.	
		(INCHES)	.862	.865	.865	.865
		(AC-FT)	2517.	2524.	2524.	2524.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .88

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	6321.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	5823.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	5320.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	4819.	1		1245	154	0.	1		1900	229	0.
1		0020	5	0.	1		0635	80	4328.	1		1250	155	0.	1		1905	230	0.
1		0025	6	0.	1		0640	81	3856.	1		1255	156	0.	1		1910	231	0.
1		0030	7	0.	1		0645	82	3412.	1		1300	157	0.	1		1915	232	0.
1		0035	8	0.	1		0650	83	3003.	1		1305	158	0.	1		1920	233	0.
1		0040	9	1.	1		0655	84	2630.	1		1310	159	0.	1		1925	234	0.
1		0045	10	1.	1		0700	85	2296.	1		1315	160	0.	1		1930	235	0.
1		0050	11	1.	1		0705	86	1998.	1		1320	161	0.	1		1935	236	0.
1		0055	12	1.	1		0710	87	1734.	1		1325	162	0.	1		1940	237	0.
1		0100	13	1.	1		0715	88	1502.	1		1330	163	0.	1		1945	238	0.
1		0105	14	0.	1		0720	89	1296.	1		1335	164	0.	1		1950	239	0.
1		0110	15	1.	1		0725	90	1115.	1		1340	165	0.	1		1955	240	0.
1		0115	16	1.	1		0730	91	956.	1		1345	166	0.	1		2000	241	0.
1		0120	17	2.	1		0735	92	815.	1		1350	167	0.	1		2005	242	0.
1		0125	18	4.	1		0740	93	692.	1		1355	168	0.	1		2010	243	0.
1		0130	19	7.	1		0745	94	585.	1		1400	169	0.	1		2015	244	0.
1		0135	20	13.	1		0750	95	491.	1		1405	170	0.	1		2020	245	0.
1		0140	21	18.	1		0755	96	411.	1		1410	171	0.	1		2025	246	0.
1		0145	22	21.	1		0800	97	342.	1		1415	172	0.	1		2030	247	0.
1		0150	23	23.	1		0805	98	284.	1		1420	173	0.	1		2035	248	0.
1		0155	24	23.	1		0810	99	235.	1		1425	174	0.	1		2040	249	0.
1		0200	25	22.	1		0815	100	194.	1		1430	175	0.	1		2045	250	0.
1		0205	26	22.	1		0820	101	160.	1		1435	176	0.	1		2050	251	0.
1		0210	27	28.	1		0825	102	131.	1		1440	177	0.	1		2055	252	0.
1		0215	28	42.	1		0830	103	108.	1		1445	178	0.	1		2100	253	0.
1		0220	29	64.	1		0835	104	89.	1		1450	179	0.	1		2105	254	0.
1		0225	30	90.	1		0840	105	73.	1		1455	180	0.	1		2110	255	0.
1		0230	31	113.	1		0845	106	60.	1		1500	181	0.	1		2115	256	0.
1		0235	32	131.	1		0850	107	49.	1		1505	182	0.	1		2120	257	0.
1		0240	33	154.	1		0855	108	40.	1		1510	183	0.	1		2125	258	0.
1		0245	34	189.	1		0900	109	33.	1		1515	184	0.	1		2130	259	0.
1		0250	35	232.	1		0905	110	26.	1		1520	185	0.	1		2135	260	0.
1		0255	36	273.	1		0910	111	21.	1		1525	186	0.	1		2140	261	0.
1		0300	37	314.	1		0915	112	17.	1		1530	187	0.	1		2145	262	0.

1	0305	38	370.	1	0920	113	13.	1	1535	188	0.	1	2150	263	0.
1	0310	39	459.	1	0925	114	11.	1	1540	189	0.	1	2155	264	0.
1	0315	40	596.	1	0930	115	8.	1	1545	190	0.	1	2200	265	0.
1	0320	41	826.	1	0935	116	6.	1	1550	191	0.	1	2205	266	0.
1	0325	42	1204.	1	0940	117	5.	1	1555	192	0.	1	2210	267	0.
1	0330	43	1742.	1	0945	118	4.	1	1600	193	0.	1	2215	268	0.
1	0335	44	2343.	1	0950	119	3.	1	1605	194	0.	1	2220	269	0.
1	0340	45	2792.	1	0955	120	2.	1	1610	195	0.	1	2225	270	0.
1	0345	46	3128.	1	1000	121	2.	1	1615	196	0.	1	2230	271	0.
1	0350	47	3522.	1	1005	122	1.	1	1620	197	0.	1	2235	272	0.
1	0355	48	4027.	1	1010	123	1.	1	1625	198	0.	1	2240	273	0.
1	0400	49	4660.	1	1015	124	1.	1	1630	199	0.	1	2245	274	0.
1	0405	50	5417.	1	1020	125	1.	1	1635	200	0.	1	2250	275	0.
1	0410	51	6242.	1	1025	126	0.	1	1640	201	0.	1	2255	276	0.
1	0415	52	7121.	1	1030	127	0.	1	1645	202	0.	1	2300	277	0.
1	0420	53	8079.	1	1035	128	0.	1	1650	203	0.	1	2305	278	0.
1	0425	54	9115.	1	1040	129	0.	1	1655	204	0.	1	2310	279	0.
1	0430	55	10218.	1	1045	130	0.	1	1700	205	0.	1	2315	280	0.
1	0435	56	11352.	1	1050	131	0.	1	1705	206	0.	1	2320	281	0.
1	0440	57	12426.	1	1055	132	0.	1	1710	207	0.	1	2325	282	0.
1	0445	58	13346.	1	1100	133	0.	1	1715	208	0.	1	2330	283	0.
1	0450	59	14076.	1	1105	134	0.	1	1720	209	0.	1	2335	284	0.
1	0455	60	14587.	1	1110	135	0.	1	1725	210	0.	1	2340	285	0.
1	0500	61	14816.	1	1115	136	0.	1	1730	211	0.	1	2345	286	0.
1	0505	62	14746.	1	1120	137	0.	1	1735	212	0.	1	2350	287	0.
1	0510	63	14413.	1	1125	138	0.	1	1740	213	0.	1	2355	288	0.
1	0515	64	13874.	1	1130	139	0.	1	1745	214	0.	2	0000	289	0.
1	0520	65	13191.	1	1135	140	0.	1	1750	215	0.	2	0005	290	0.
1	0525	66	12428.	1	1140	141	0.	1	1755	216	0.	2	0010	291	0.
1	0530	67	11638.	1	1145	142	0.	1	1800	217	0.	2	0015	292	0.
1	0535	68	10862.	1	1150	143	0.	1	1805	218	0.	2	0020	293	0.
1	0540	69	10130.	1	1155	144	0.	1	1810	219	0.	2	0025	294	0.
1	0545	70	9461.	1	1200	145	0.	1	1815	220	0.	2	0030	295	0.
1	0550	71	8858.	1	1205	146	0.	1	1820	221	0.	2	0035	296	0.
1	0555	72	8308.	1	1210	147	0.	1	1825	222	0.	2	0040	297	0.
1	0600	73	7794.	1	1215	148	0.	1	1830	223	0.	2	0045	298	0.
1	0605	74	7301.	1	1220	149	0.	1	1835	224	0.	2	0050	299	0.
1	0610	75	6813.	1	1225	150	0.	1	1840	225	0.	2	0055	300	0.

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
+ 14816.	5.00	(CFS)	4978.	1248.	1202.	1202.
		(INCHES)	.846	.848	.848	.848
		(AC-FT)	2469.	2475.	2475.	2475.

CUMULATIVE AREA = 54.73 SQ MI

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            **************
            *            *
 227 KK     *      RRDB  *
            *            *
            **************

 240 KO          OUTPUT CONTROL VARIABLES
                       IPRNT           1  PRINT CONTROL
                       IPLOT           0  PLOT CONTROL
                       QSCAL          0.  HYDROGRAPH PLOT SCALE

                 HYDROGRAPH ROUTING DATA

 241 RS          STORAGE ROUTING
                       NSTPS           1  NUMBER OF SUBREACHES
                        ITYP        STOR  TYPE OF INITIAL CONDITION
                      RSVRIC       -1.00  INITIAL CONDITION
                           X         .00 WORKING R AND D COEFFICIENT

 242 SV            STORAGE         .0       9.0     107.0     231.0     372.0     529.0     705.0     903.0    1125.0    1376.0
                               1659.0    1974.0    2007.0    2115.0    2331.0    2690.0    2933.0

 244 SQ          DISCHARGE         0.       10.       57.       80.       99.      114.      128.      140.      151.      162.
                                 171.      181.      182.     8654.    33270.   110918.   163477.

 246 SE          ELEVATION    3161.00   3162.00   3167.00   3172.00   3177.00   3182.00   3187.00   3192.00   3197.00   3202.00
                              3207.00   3212.00   3212.50   3214.00   3217.00   3222.00   3225.00

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HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .99

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DA MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000	1	0.	.0	3161.0	1	0820	101	284.	2008.3	3212.5	1	1640	201	178.	1889.6	3210.7
1	0005	2	0.	.0	3161.0	1	0825	102	235.	2007.7	3212.5	1	1645	202	178.	1888.4	3210.6
1	0010	3	0.	.0	3161.0	1	0830	103	194.	2007.2	3212.5	1	1650	203	178.	1887.2	3210.6
1	0015	4	0.	.0	3161.0	1	0835	104	182.	2006.6	3212.5	1	1655	204	178.	1885.9	3210.6
1	0020	5	0.	.0	3161.0	1	0840	105	182.	2006.0	3212.5	1	1700	205	178.	1884.7	3210.6
1	0025	6	0.	.0	3161.0	1	0845	106	182.	2005.3	3212.5	1	1705	206	178.	1883.5	3210.6
1	0030	7	0.	.0	3161.0	1	0850	107	182.	2004.5	3212.5	1	1710	207	178.	1882.3	3210.5
1	0035	8	0.	.0	3161.0	1	0855	108	182.	2003.6	3212.4	1	1715	208	178.	1881.0	3210.5
1	0040	9	0.	.0	3161.0	1	0900	109	182.	2002.6	3212.4	1	1720	209	178.	1879.8	3210.5
1	0045	10	0.	.1	3161.0	1	0905	110	182.	2001.6	3212.4	1	1725	210	178.	1878.6	3210.5
1	0050	11	0.	.1	3161.0	1	0910	111	182.	2000.6	3212.4	1	1730	211	178.	1877.4	3210.5
1	0055	12	0.	.1	3161.0	1	0915	112	182.	1999.5	3212.4	1	1735	212	178.	1876.1	3210.4
1	0100	13	0.	.1	3161.0	1	0920	113	182.	1998.3	3212.4	1	1740	213	178.	1874.9	3210.4
1	0105	14	0.	.1	3161.0	1	0925	114	182.	1997.2	3212.4	1	1745	214	178.	1873.7	3210.4
1	0110	15	0.	.1	3161.0	1	0930	115	182.	1996.0	3212.3	1	1750	215	178.	1872.5	3210.4
1	0115	16	0.	.1	3161.0	1	0935	116	182.	1994.8	3212.3	1	1755	216	178.	1871.2	3210.4
1	0120	17	0.	.2	3161.0	1	0940	117	182.	1993.6	3212.3	1	1800	217	178.	1870.0	3210.3
1	0125	18	0.	.2	3161.0	1	0945	118	182.	1992.4	3212.3	1	1805	218	178.	1868.8	3210.3
1	0130	19	0.	.3	3161.0	1	0950	119	182.	1991.2	3212.3	1	1810	219	178.	1867.6	3210.3
1	0135	20	0.	.4	3161.0	1	0955	120	181.	1989.9	3212.2	1	1815	220	178.	1866.3	3210.3
1	0140	21	1.	.6	3161.1	1	1000	121	181.	1988.7	3212.2	1	1820	221	178.	1865.1	3210.3
1	0145	22	1.	.8	3161.1	1	1005	122	181.	1987.5	3212.2	1	1825	222	178.	1863.9	3210.3
1	0150	23	1.	1.1	3161.1	1	1010	123	181.	1986.2	3212.2	1	1830	223	177.	1862.7	3210.2
1	0155	24	2.	1.4	3161.2	1	1015	124	181.	1985.0	3212.2	1	1835	224	177.	1861.5	3210.2
1	0200	25	2.	1.7	3161.2	1	1020	125	181.	1983.7	3212.1	1	1840	225	177.	1860.2	3210.2
1	0205	26	2.	2.0	3161.2	1	1025	126	181.	1982.5	3212.1	1	1845	226	177.	1859.0	3210.2
1	0210	27	3.	2.4	3161.3	1	1030	127	181.	1981.2	3212.1	1	1850	227	177.	1857.8	3210.2
1	0215	28	3.	3.0	3161.3	1	1035	128	181.	1980.0	3212.1	1	1855	228	177.	1856.6	3210.1
1	0220	29	4.	3.8	3161.4	1	1040	129	181.	1978.7	3212.1	1	1900	229	177.	1855.3	3210.1
1	0225	30	5.	4.8	3161.5	1	1045	130	181.	1977.5	3212.1	1	1905	230	177.	1854.1	3210.1
1	0230	31	7.	6.2	3161.7	1	1050	131	181.	1976.3	3212.0	1	1910	231	177.	1852.9	3210.1
1	0235	32	9.	7.8	3161.9	1	1055	132	181.	1975.0	3212.0	1	1915	232	177.	1851.7	3210.1
1	0240	33	10.	9.6	3162.0	1	1100	133	181.	1973.8	3212.0	1	1920	233	177.	1850.5	3210.0
1	0245	34	11.	11.8	3162.1	1	1105	134	181.	1972.5	3212.0	1	1925	234	177.	1849.2	3210.0
1	0250	35	13.	14.4	3162.3	1	1110	135	181.	1971.3	3212.0	1	1930	235	177.	1848.0	3210.0
1	0255	36	14.	17.4	3162.4	1	1115	136	181.	1970.0	3211.9	1	1935	236	177.	1846.8	3210.0
1	0300	37	16.	20.8	3162.6	1	1120	137	181.	1968.8	3211.9	1	1940	237	177.	1845.6	3210.0
1	0305	38	18.	24.8	3162.8	1	1125	138	181.	1967.5	3211.9	1	1945	238	177.	1844.4	3209.9
1	0310	39	20.	29.4	3163.0	1	1130	139	181.	1966.3	3211.9	1	1950	239	177.	1843.2	3209.9
1	0315	40	22.	35.0	3163.3	1	1135	140	181.	1965.0	3211.9	1	1955	240	177.	1841.9	3209.9
1	0320	41	26.	42.3	3163.7	1	1140	141	181.	1963.8	3211.8	1	2000	241	177.	1840.7	3209.9
1	0325	42	31.	52.2	3164.2	1	1145	142	181.	1962.6	3211.8	1	2005	242	177.	1839.5	3209.9
1	0330	43	37.	66.0	3164.9	1	1150	143	181.	1961.3	3211.8	1	2010	243	177.	1838.3	3209.8
1	0335	44	46.	84.6	3165.9	1	1155	144	181.	1960.1	3211.8	1	2015	244	177.	1837.1	3209.8
1	0340	45	57.	107.3	3167.0	1	1200	145	181.	1958.8	3211.8	1	2020	245	177.	1835.8	3209.8
1	0345	46	62.	133.3	3168.1	1	1205	146	180.	1957.6	3211.7	1	2025	246	177.	1834.6	3209.8
1	0350	47	67.	162.4	3169.2	1	1210	147	180.	1956.3	3211.7	1	2030	247	177.	1833.4	3209.8
1	0355	48	73.	195.2	3170.6	1	1215	148	180.	1955.1	3211.7	1	2035	248	176.	1832.2	3209.7
1	0400	49	80.	232.7	3172.1	1	1220	149	180.	1953.9	3211.7	1	2040	249	176.	1831.0	3209.7
1	0405	50	86.	276.0	3173.6	1	1225	150	180.	1952.6	3211.7	1	2045	250	176.	1829.8	3209.7
1	0410	51	93.	325.8	3175.4	1	1230	151	180.	1951.4	3211.6	1	2050	251	176.	1828.6	3209.7
1	0415	52	100.	382.6	3177.3	1	1235	152	180.	1950.1	3211.6	1	2055	252	176.	1827.3	3209.7
1	0420	53	106.	446.9	3179.4	1	1240	153	180.	1948.9	3211.6	1	2100	253	176.	1826.1	3209.7
1	0425	54	113.	519.4	3181.7	1	1245	154	180.	1947.6	3211.6	1	2105	254	176.	1824.9	3209.6
1	0430	55	120.	600.5	3184.0	1	1250	155	180.	1946.4	3211.6	1	2110	255	176.	1823.7	3209.6
1	0435	56	127.	690.8	3186.6	1	1255	156	180.	1945.2	3211.5	1	2115	256	176.	1822.5	3209.6
1	0440	57	133.	790.0	3189.1	1	1300	157	180.	1943.9	3211.5	1	2120	257	176.	1821.3	3209.6
1	0445	58	140.	897.1	3191.9	1	1305	158	180.	1942.7	3211.5	1	2125	258	176.	1820.1	3209.6
1	0450	59	145.	1010.8	3194.4	1	1310	159	180.	1941.4	3211.5	1	2130	259	176.	1818.8	3209.5
1	0455	60	151.	1129.4	3197.1	1	1315	160	180.	1940.2	3211.5	1	2135	260	176.	1817.6	3209.5
1	0500	61	157.	1250.7	3199.5	1	1320	161	180.	1939.0	3211.4	1	2140	261	176.	1816.4	3209.5
1	0505	62	162.	1372.3	3201.9	1	1325	162	180.	1937.7	3211.4	1	2145	262	176.	1815.2	3209.5
1	0510	63	166.	1491.9	3204.0	1	1330	163	180.	1936.5	3211.4	1	2150	263	176.	1814.0	3209.5
1	0515	64	169.	1607.7	3206.1	1	1335	164	180.	1935.3	3211.4	1	2155	264	176.	1812.8	3209.4
1	0520	65	173.	1718.1	3207.9	1	1340	165	180.	1934.0	3211.4	1	2200	265	176.	1811.6	3209.4
1	0525	66	176.	1822.3	3209.6	1	1345	166	180.	1932.8	3211.3	1	2205	266	176.	1810.4	3209.4
1	0530	67	179.	1919.9	3211.1	1	1350	167	180.	1931.5	3211.3	1	2210	267	176.	1809.2	3209.4
1	0535	68	423.	2010.1	3212.5	1	1355	168	180.	1930.3	3211.3	1	2215	268	176.	1807.9	3209.4
1	0540	69	5548.	2075.4	3213.4	1	1400	169	180.	1929.1	3211.3	1	2220	269	176.	1806.7	3209.3
1	0545	70	8129.	2108.3	3213.9	1	1405	170	180.	1927.8	3211.3	1	2225	270	176.	1805.5	3209.3
1	0550	71	9489.	2122.3	3214.1	1	1410	171	179.	1926.6	3211.2	1	2230	271	176.	1804.3	3209.3
1	0555	72	9858.	2125.6	3214.1	1	1415	172	179.	1925.4	3211.2	1	2235	272	176.	1803.1	3209.3
1	0600	73	9657.	2123.8	3214.1	1	1420	173	179.	1924.1	3211.2	1	2240	273	176.	1801.9	3209.3
1	0605	74	9227.	2120.0	3214.1	1	1425	174	179.	1922.9	3211.2	1	2245	274	175.	1800.7	3209.2
1	0610	75	8707.	2115.5	3214.0	1	1430	175	179.	1921.6	3211.2	1	2250	275	175.	1799.5	3209.2
1	0615	76	8274.	2110.2	3213.9	1	1435	176	179.	1920.4	3211.1	1	2255	276	175.	1798.3	3209.2
1	0620	77	7787.	2104.0	3213.8	1	1440	177	179.	1919.2	3211.1	1	2300	277	175.	1797.1	3209.2
1	0625	78	7255.	2097.2	3213.8	1	1445	178	179.	1917.9	3211.1	1	2305	278	175.	1795.9	3209.2
1	0630	79	6697.	2090.1	3213.7	1	1450	179	179.	1916.7	3211.1	1	2310	279	175.	1794.6	3209.2
1	0635	80	6127.	2082.8	3213.6	1	1455	180	179.	1915.5	3211.1	1	2315	280	175.	1793.4	3209.1
1	0640	81	5559.	2075.5	3213.5	1	1500	181	179.	1914.2	3211.1	1	2320	281	175.	1792.2	3209.1
1	0645	82	5003.	2068.5	3213.4	1	1505	182	179.	1913.0	3211.0	1	2325	282	175.	1791.0	3209.1
1	0650	83	4471.	2061.7	3213.3	1	1510	183	179.	1911.8	3211.0	1	2330	283	175.	1789.8	3209.1
1	0655	84	3969.	2055.3	3213.2	1	1515	184	179.	1910.5	3211.0	1	2335	284	175.	1788.6	3209.1
1	0700	85	3505.	2049.4	3213.1	1	1520	185	179.	1909.3	3211.0	1	2340	285	175.	1787.4	3209.0
1	0705	86	3081.	2044.0	3213.0	1	1525	186	179.	1908.1	3211.0	1	2345	286	175.	1786.2	3209.0
1	0710	87	2697.	2039.1	3212.9	1	1530	187	179.	1906.8	3210.9	1	2350	287	175.	1785.0	3209.0
1	0715	88	2353.	2034.7	3212.9	1	1535	188	179.	1905.6	3210.9	1	2355	288	175.	1783.8	3209.0
1	0720	89	2046.	2030.8	3212.8	1	1540	189	179.	1904.4	3210.9	2	0000	289	175.	1782.6	3209.0
1	0725	90	1774.	2027.3	3212.8	1	1545	190	179.	1903.2	3210.9	2	0005	290	175.	1781.4	3208.9
1	0730	91	1533.	2024.2	3212.7	1	1550	191	179.	1901.9	3210.9	2	0010	291	175.	1780.2	3208.9
1	0735	92	1320.	2021.5	3212.7	1	1555	192	179.	1900.7	3210.8	2	0015	292	175.	1779.0	3208.9

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0740	93	1132.	2019.1	3212.7	1		1600	193	179.	1899.5	3210.8	2		0020	293	175.	1777.8	3208.9
1		0745	94	967.	2017.0	3212.6	1		1605	194	179.	1898.2	3210.8	2		0025	294	175.	1776.6	3208.9
1		0750	95	822.	2015.2	3212.6	1		1610	195	179.	1897.0	3210.8	2		0030	295	175.	1775.4	3208.8
1		0755	96	696.	2013.6	3212.6	1		1615	196	179.	1895.8	3210.8	2		0035	296	175.	1774.2	3208.8
1		0800	97	587.	2012.2	3212.6	1		1620	197	178.	1894.5	3210.7	2		0040	297	175.	1773.0	3208.8
1		0805	98	492.	2011.0	3212.6	1		1625	198	178.	1893.3	3210.7	2		0045	298	175.	1771.8	3208.8
1		0810	99	411.	2009.9	3212.5	1		1630	199	178.	1892.1	3210.7	2		0050	299	175.	1770.6	3208.8
1		0815	100	342.	2009.0	3212.5	1		1635	200	178.	1890.9	3210.7	2		0055	300	175.	1769.3	3208.8

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 9858.	5.92		2044.	621.	598.	598.
		(INCHES)	.347	.422	.422	.422
		(AC-FT)	1014.	1232.	1232.	1232.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
2126.	5.92	2021.	1613.	1554.	1554.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3214.15	5.92	3212.68	3203.64	3202.07	3202.07

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .98

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	3161.0	1		0820	101	278.	2008.2	3212.5	1		1640	201	178.	1889.5	3210.7
1		0005	2	0.	.0	3161.0	1		0825	102	230.	2007.6	3212.5	1		1645	202	178.	1888.3	3210.6
1		0010	3	0.	.0	3161.0	1		0830	103	190.	2007.1	3212.5	1		1650	203	178.	1887.1	3210.6
1		0015	4	0.	.0	3161.0	1		0835	104	182.	2006.6	3212.5	1		1655	204	178.	1885.8	3210.6
1		0020	5	0.	.0	3161.0	1		0840	105	182.	2006.0	3212.5	1		1700	205	178.	1884.6	3210.6
1		0025	6	0.	.0	3161.0	1		0845	106	182.	2005.2	3212.5	1		1705	206	178.	1883.4	3210.6
1		0030	7	0.	.0	3161.0	1		0850	107	182.	2004.4	3212.5	1		1710	207	178.	1882.1	3210.5
1		0035	8	0.	.0	3161.0	1		0855	108	182.	2003.5	3212.4	1		1715	208	178.	1880.9	3210.5
1		0040	9	0.	.0	3161.0	1		0900	109	182.	2002.5	3212.4	1		1720	209	178.	1879.7	3210.5
1		0045	10	0.	.0	3161.0	1		0905	110	182.	2001.5	3212.4	1		1725	210	178.	1878.5	3210.5
1		0050	11	0.	.1	3161.0	1		0910	111	182.	2000.5	3212.4	1		1730	211	178.	1877.2	3210.5
1		0055	12	0.	.1	3161.0	1		0915	112	182.	1999.4	3212.4	1		1735	212	178.	1876.0	3210.4
1		0100	13	0.	.1	3161.0	1		0920	113	182.	1998.2	3212.4	1		1740	213	178.	1874.8	3210.4
1		0105	14	0.	.1	3161.0	1		0925	114	182.	1997.1	3212.3	1		1745	214	178.	1873.6	3210.4
1		0110	15	0.	.1	3161.0	1		0930	115	182.	1995.9	3212.3	1		1750	215	178.	1872.3	3210.4
1		0115	16	0.	.1	3161.0	1		0935	116	182.	1994.7	3212.3	1		1755	216	178.	1871.1	3210.4
1		0120	17	0.	.2	3161.0	1		0940	117	182.	1993.5	3212.3	1		1800	217	178.	1869.9	3210.3
1		0125	18	0.	.2	3161.0	1		0945	118	182.	1992.3	3212.3	1		1805	218	178.	1868.7	3210.3
1		0130	19	0.	.3	3161.0	1		0950	119	182.	1991.0	3212.3	1		1810	219	178.	1867.4	3210.3
1		0135	20	0.	.4	3161.0	1		0955	120	181.	1989.8	3212.2	1		1815	220	178.	1866.2	3210.3
1		0140	21	1.	.5	3161.1	1		1000	121	181.	1988.6	3212.2	1		1820	221	178.	1865.0	3210.3
1		0145	22	1.	.7	3161.1	1		1005	122	181.	1987.3	3212.2	1		1825	222	178.	1863.8	3210.3
1		0150	23	1.	1.0	3161.1	1		1010	123	181.	1986.1	3212.2	1		1830	223	177.	1862.6	3210.2
1		0155	24	1.	1.2	3161.1	1		1015	124	181.	1984.9	3212.2	1		1835	224	177.	1861.3	3210.2
1		0200	25	2.	1.5	3161.2	1		1020	125	181.	1983.6	3212.1	1		1840	225	177.	1860.1	3210.2
1		0205	26	2.	1.8	3161.2	1		1025	126	181.	1982.4	3212.1	1		1845	226	177.	1858.9	3210.2
1		0210	27	2.	2.2	3161.2	1		1030	127	181.	1981.1	3212.1	1		1850	227	177.	1857.7	3210.2
1		0215	28	3.	2.7	3161.3	1		1035	128	181.	1979.9	3212.1	1		1855	228	177.	1856.5	3210.1
1		0220	29	4.	3.4	3161.4	1		1040	129	181.	1978.6	3212.1	1		1900	229	177.	1855.2	3210.1
1		0225	30	5.	4.4	3161.5	1		1045	130	181.	1977.4	3212.1	1		1905	230	177.	1854.0	3210.1
1		0230	31	6.	5.6	3161.6	1		1050	131	181.	1976.1	3212.0	1		1910	231	177.	1852.8	3210.1
1		0235	32	8.	7.1	3161.8	1		1055	132	181.	1974.9	3212.0	1		1915	232	177.	1851.6	3210.1
1		0240	33	10.	8.8	3162.0	1		1100	133	181.	1973.6	3212.0	1		1920	233	177.	1850.3	3210.0
1		0245	34	11.	10.8	3162.1	1		1105	134	181.	1972.4	3212.0	1		1925	234	177.	1849.1	3210.0
1		0250	35	12.	13.1	3162.2	1		1110	135	181.	1971.2	3212.0	1		1930	235	177.	1847.9	3210.0
1		0255	36	13.	16.0	3162.4	1		1115	136	181.	1969.9	3211.9	1		1935	236	177.	1846.7	3210.0
1		0300	37	15.	19.2	3162.5	1		1120	137	181.	1968.7	3211.9	1		1940	237	177.	1845.5	3210.0
1		0305	38	17.	22.8	3162.7	1		1125	138	181.	1967.4	3211.9	1		1945	238	177.	1844.3	3209.9
1		0310	39	19.	27.1	3162.9	1		1130	139	181.	1966.2	3211.9	1		1950	239	177.	1843.0	3209.9
1		0315	40	21.	32.4	3163.2	1		1135	140	181.	1964.9	3211.9	1		1955	240	177.	1841.8	3209.9
1		0320	41	25.	39.3	3163.5	1		1140	141	181.	1963.7	3211.8	1		2000	241	177.	1840.6	3209.9
1		0325	42	29.	48.7	3164.0	1		1145	142	181.	1962.4	3211.8	1		2005	242	177.	1839.4	3209.9
1		0330	43	35.	61.9	3164.7	1		1150	143	181.	1961.2	3211.8	1		2010	243	177.	1838.2	3209.8
1		0335	44	44.	79.7	3165.6	1		1155	144	181.	1959.9	3211.8	1		2015	244	177.	1837.0	3209.8
1		0340	45	54.	101.7	3166.7	1		1200	145	181.	1958.7	3211.8	1		2020	245	177.	1835.7	3209.8
1		0345	46	61.	126.9	3167.8	1		1205	146	180.	1957.5	3211.7	1		2025	246	177.	1834.5	3209.8
1		0350	47	66.	155.0	3168.9	1		1210	147	180.	1956.2	3211.7	1		2030	247	177.	1833.3	3209.8
1		0355	48	72.	186.7	3170.2	1		1215	148	180.	1955.0	3211.7	1		2035	248	176.	1832.1	3209.7
1		0400	49	79.	223.1	3171.7	1		1220	149	180.	1953.7	3211.7	1		2040	249	176.	1830.9	3209.7
1		0405	50	85.	265.0	3173.2	1		1225	150	180.	1952.5	3211.7	1		2045	250	176.	1829.7	3209.7
1		0410	51	91.	313.3	3174.9	1		1230	151	180.	1951.3	3211.6	1		2050	251	176.	1828.4	3209.7
1		0415	52	99.	368.4	3176.9	1		1235	152	180.	1950.0	3211.6	1		2055	252	176.	1827.2	3209.7
1		0420	53	105.	430.9	3178.9	1		1240	153	180.	1948.8	3211.6	1		2100	253	176.	1826.0	3209.7
1		0425	54	111.	501.4	3181.1	1		1245	154	180.	1947.5	3211.6	1		2105	254	176.	1824.8	3209.6
1		0430	55	118.	580.3	3183.5	1		1250	155	180.	1946.3	3211.6	1		2110	255	176.	1823.6	3209.6
1		0435	56	125.	668.1	3186.0	1		1255	156	180.	1945.0	3211.5	1		2115	256	176.	1822.4	3209.6
1		0440	57	132.	764.7	3188.5	1		1300	157	180.	1943.8	3211.5	1		2120	257	176.	1821.2	3209.6
1		0445	58	138.	869.1	3191.1	1		1305	158	180.	1942.6	3211.5	1		2125	258	176.	1819.9	3209.6
1		0450	59	144.	979.9	3193.7	1		1310	159	180.	1941.3	3211.5	1		2130	259	176.	1818.7	3209.5
1		0455	60	150.	1095.4	3196.3	1		1315	160	180.	1940.1	3211.5	1		2135	260	176.	1817.5	3209.5
1		0500	61	155.	1213.7	3198.8	1		1320	161	180.	1938.8	3211.4	1		2140	261	176.	1816.3	3209.5
1		0505	62	160.	1332.3	3201.1	1		1325	162	180.	1937.6	3211.4	1		2145	262	176.	1815.1	3209.5
1		0510	63	164.	1449.0	3203.3	1		1330	163	180.	1936.4	3211.4	1		2150	263	176.	1813.9	3209.5
1		0515	64	168.	1561.9	3205.3	1		1335	164	180.	1935.1	3211.4	1		2155	264	176.	1812.7	3209.4
1		0520	65	171.	1669.7	3207.2	1		1340	165	180.	1933.9	3211.4	1		2200	265	176.	1811.5	3209.4
1		0525	66	175.	1771.5	3208.8	1		1345	166	180.	1932.7	3211.3	1		2205	266	176.	1810.3	3209.4
1		0530	67	178.	1866.8	3210.3	1		1350	167	180.	1931.4	3211.3	1		2210	267	176.	1809.0	3209.4
1		0535	68	180.	1955.7	3211.7	1		1355	168	180.	1930.2	3211.3	1		2215	268	176.	1807.8	3209.4
1		0540	69	2117.	2031.7	3212.8	1		1400	169	180.	1928.9	3211.3	1		2220	269	176.	1806.6	3209.3
1		0545	70	6046.	2081.8	3213.5	1		1405	170	180.	1927.7	3211.3	1		2225	270	176.	1805.4	3209.3
1		0550	71	7984.	2106.5	3213.9	1		1410	171	179.	1926.5	3211.2	1		2230	271	176.	1804.2	3209.3
1		0555	72	8858.	2116.8	3214.0	1		1415	172	179.	1925.2	3211.2	1		2235	272	176.	1803.0	3209.3
1		0600	73	9103.	2118.9	3214.1	1		1420	173	179.	1924.0	3211.2	1		2240	273	176.	1801.8	3209.3
1		0605	74	8876.	2117.0	3214.0	1		1425	174	179.	1922.8	3211.2	1		2245	274	175.	1800.6	3209.2
1		0610	75	8503.	2113.1	3214.0	1		1430	175	179.	1921.5	3211.2	1		2250	275	175.	1799.4	3209.2
1		0615	76	8099.	2107.9	3213.9	1		1435	176	179.	1920.3	3211.1	1		2255	276	175.	1798.2	3209.2
1		0620	77	7623.	2101.9	3213.8	1		1440	177	179.	1919.1	3211.1	1		2300	277	175.	1796.9	3209.2
1		0625	78	7102.	2095.2	3213.7	1		1445	178	179.	1917.8	3211.1	1		2305	278	175.	1795.7	3209.2
1		0630	79	6556.	2088.2	3213.6	1		1450	179	179.	1916.6	3211.1	1		2310	279	175.	1794.5	3209.2
1		0635	80	5998.	2081.1	3213.5	1		1455	180	179.	1915.4	3211.1	1		2315	280	175.	1793.3	3209.1
1		0640	81	5442.	2074.1	3213.4	1		1500	181	179.	1914.1	3211.0	1		2320	281	175.	1792.1	3209.1
1		0645	82	4898.	2067.1	3213.3	1		1505	182	179.	1912.9	3211.0	1		2325	282	175.	1790.9	3209.1
1		0650	83	4377.	2060.5	3213.2	1		1510	183	179.	1911.7	3211.0	1		2330	283	175.	1789.7	3209.1
1		0655	84	3887.	2054.2	3213.2	1		1515	184	179.	1910.4	3211.0	1		2335	284	175.	1788.5	3209.1
1		0700	85	3432.	2048.4	3213.1	1		1520	185	179.	1909.2	3211.0	1		2340	285	175.	1787.3	3209.0
1		0705	86	3017.	2043.1	3213.0	1		1525	186	179.	1908.0	3211.0	1		2345	286	175.	1786.1	3209.0
1		0710	87	2641.	2038.4	3212.9	1		1530	187	179.	1906.7	3210.9	1		2350	287	175.	1784.9	3209.0
1		0715	88	2304.	2034.1	3212.9	1		1535	188	179.	1905.5	3210.9	1		2355	288	175.	1783.7	3209.0
1		0720	89	2004.	2030.2	3212.8	1		1540	189	179.	1904.3	3210.9	2		0000	289	175.	1782.5	3209.0
1		0725	90	1738.	2026.8	3212.8	1		1545	190	179.	1903.0	3210.9	2		0005	290	175.	1781.3	3208.9
1		0730	91	1501.	2023.8	3212.7	1		1550	191	179.	1901.8	3210.9	2		0010	291	175.	1780.1	3208.9
1		0735	92	1293.	2021.2	3212.7	1		1555	192	179.	1900.6	3210.8	2		0015	292	175.	1778.9	3208.9
1		0740	93	1109.	2018.8	3212.7	1		1600	193	179.	1899.3	3210.8	2		0020	293	175.	1777.7	3208.9
1		0745	94	947.	2016.8	3212.6	1		1605	194	179.	1898.1	3210.8	2		0025	294	175.	1776.5	3208.9
1		0750	95	806.	2014.9	3212.6	1		1610	195	179.	1896.9	3210.8	2		0030	295	175.	1775.2	3208.8
1		0755	96	682.	2013.4	3212.6	1		1615	196	179.	1895.7	3210.8	2		0035	296	175.	1774.0	3208.8
1		0800	97	575.	2012.0	3212.6	1		1620	197	178.	1894.4	3210.7	2		0040	297	175.	1772.8	3208.8
1		0805	98	482.	2010.8	3212.6	1		1625	198	178.	1893.2	3210.7	2		0045	298	175.	1771.6	3208.8
1		0810	99	403.	2009.8	3212.5	1		1630	199	178.	1892.0	3210.7	2		0050	299	175.	1770.4	3208.8
1		0815	100	335.	2009.0	3212.5	1		1635	200	178.	1890.7	3210.7	2		0055	300	174.	1769.2	3208.7

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 9103.	6.00		1891.	582.	561.	561.
		(INCHES)	.321	.396	.396	.396
		(AC-FT)	938.	1155.	1155.	1155.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
2119.	6.00	2018.	1611.	1551.	1551.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3214.05	6.00	3212.64	3203.57	3202.01	3202.01

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .95

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	3161.0	1		0820	101	269.	2008.1	3212.5	1		1640	201	178.	1889.3	3210.7
1		0005	2	0.	.0	3161.0	1		0825	102	223.	2007.5	3212.5	1		1645	202	178.	1888.1	3210.6
1		0010	3	0.	.0	3161.0	1		0830	103	184.	2007.0	3212.5	1		1650	203	178.	1886.9	3210.6
1		0015	4	0.	.0	3161.0	1		0835	104	182.	2006.5	3212.5	1		1655	204	178.	1885.6	3210.6
1		0020	5	0.	.0	3161.0	1		0840	105	182.	2005.9	3212.5	1		1700	205	178.	1884.4	3210.6
1		0025	6	0.	.0	3161.0	1		0845	106	182.	2005.1	3212.5	1		1705	206	178.	1883.2	3210.6
1		0030	7	0.	.0	3161.0	1		0850	107	182.	2004.3	3212.5	1		1710	207	178.	1882.0	3210.5
1		0035	8	0.	.0	3161.0	1		0855	108	182.	2003.4	3212.4	1		1715	208	178.	1880.7	3210.5
1		0040	9	0.	.0	3161.0	1		0900	109	182.	2002.4	3212.4	1		1720	209	178.	1879.5	3210.5
1		0045	10	0.	.0	3161.0	1		0905	110	182.	2001.4	3212.4	1		1725	210	178.	1878.3	3210.5
1		0050	11	0.	.1	3161.0	1		0910	111	182.	2000.3	3212.4	1		1730	211	178.	1877.1	3210.5
1		0055	12	0.	.1	3161.0	1		0915	112	182.	1999.2	3212.4	1		1735	212	178.	1875.8	3210.4
1		0100	13	0.	.1	3161.0	1		0920	113	182.	1998.0	3212.4	1		1740	213	178.	1874.6	3210.4
1		0105	14	0.	.1	3161.0	1		0925	114	182.	1996.9	3212.3	1		1745	214	178.	1873.4	3210.4

1	0110	15	0.	.1	3161.0	*	1	0930	115	182.	1995.7	3212.3	*	1	1750	215	178.	1872.2	3210.4
1	0115	16	0.	.1	3161.0	*	1	0935	116	182.	1994.5	3212.3	*	1	1755	216	178.	1870.9	3210.4
1	0120	17	0.	.1	3161.0	*	1	0940	117	182.	1993.3	3212.3	*	1	1800	217	178.	1869.7	3210.3
1	0125	18	0.	.2	3161.0	*	1	0945	118	182.	1992.1	3212.3	*	1	1805	218	178.	1868.5	3210.3
1	0130	19	0.	.2	3161.0	*	1	0950	119	182.	1990.9	3212.3	*	1	1810	219	178.	1867.3	3210.3
1	0135	20	0.	.3	3161.0	*	1	0955	120	181.	1989.6	3212.2	*	1	1815	220	178.	1866.0	3210.3
1	0140	21	1.	.5	3161.1	*	1	1000	121	181.	1988.4	3212.2	*	1	1820	221	178.	1864.8	3210.3
1	0145	22	1.	.6	3161.1	*	1	1005	122	181.	1987.1	3212.2	*	1	1825	222	177.	1863.6	3210.2
1	0150	23	1.	.8	3161.1	*	1	1010	123	181.	1985.9	3212.2	*	1	1830	223	177.	1862.4	3210.2
1	0155	24	1.	1.1	3161.1	*	1	1015	124	181.	1984.7	3212.2	*	1	1835	224	177.	1861.1	3210.2
1	0200	25	1.	1.3	3161.1	*	1	1020	125	181.	1983.4	3212.1	*	1	1840	225	177.	1859.9	3210.2
1	0205	26	2.	1.6	3161.2	*	1	1025	126	181.	1982.2	3212.1	*	1	1845	226	177.	1858.7	3210.2
1	0210	27	2.	1.9	3161.2	*	1	1030	127	181.	1980.9	3212.1	*	1	1850	227	177.	1857.5	3210.2
1	0215	28	3.	2.3	3161.3	*	1	1035	128	181.	1979.7	3212.1	*	1	1855	228	177.	1856.3	3210.1
1	0220	29	3.	2.8	3161.3	*	1	1040	129	181.	1978.4	3212.1	*	1	1900	229	177.	1855.0	3210.1
1	0225	30	4.	3.7	3161.4	*	1	1045	130	181.	1977.2	3212.0	*	1	1905	230	177.	1853.8	3210.1
1	0230	31	5.	4.7	3161.5	*	1	1050	131	181.	1975.9	3212.0	*	1	1910	231	177.	1852.6	3210.1
1	0235	32	7.	6.0	3161.7	*	1	1055	132	181.	1974.7	3212.0	*	1	1915	232	177.	1851.4	3210.1
1	0240	33	8.	7.4	3161.8	*	1	1100	133	181.	1973.4	3212.0	*	1	1920	233	177.	1850.2	3210.0
1	0245	34	10.	9.2	3162.0	*	1	1105	134	181.	1972.2	3212.0	*	1	1925	234	177.	1848.9	3210.0
1	0250	35	11.	11.3	3162.1	*	1	1110	135	181.	1971.0	3212.0	*	1	1930	235	177.	1847.7	3210.0
1	0255	36	12.	13.7	3162.2	*	1	1115	136	181.	1969.7	3211.9	*	1	1935	236	177.	1846.5	3210.0
1	0300	37	14.	16.6	3162.4	*	1	1120	137	181.	1968.5	3211.9	*	1	1940	237	177.	1845.3	3210.0
1	0305	38	15.	19.8	3162.6	*	1	1125	138	181.	1967.2	3211.9	*	1	1945	238	177.	1844.1	3209.9
1	0310	39	17.	23.7	3162.7	*	1	1130	139	181.	1966.0	3211.9	*	1	1950	239	177.	1842.8	3209.9
1	0315	40	19.	28.4	3163.0	*	1	1135	140	181.	1964.7	3211.9	*	1	1955	240	177.	1841.6	3209.9
1	0320	41	22.	34.7	3163.3	*	1	1140	141	181.	1963.5	3211.8	*	1	2000	241	177.	1840.4	3209.9
1	0325	42	26.	43.4	3163.8	*	1	1145	142	181.	1962.2	3211.8	*	1	2005	242	177.	1839.2	3209.9
1	0330	43	32.	55.6	3164.4	*	1	1150	143	181.	1961.0	3211.8	*	1	2010	243	177.	1838.0	3209.8
1	0335	44	40.	72.3	3165.2	*	1	1155	144	181.	1959.8	3211.8	*	1	2015	244	177.	1836.8	3209.8
1	0340	45	50.	93.0	3166.3	*	1	1200	145	181.	1958.5	3211.8	*	1	2020	245	177.	1835.5	3209.8
1	0345	46	59.	116.7	3167.4	*	1	1205	146	180.	1957.3	3211.7	*	1	2025	246	177.	1834.3	3209.8
1	0350	47	64.	143.2	3168.5	*	1	1210	147	180.	1956.0	3211.7	*	1	2030	247	177.	1833.1	3209.8
1	0355	48	69.	173.2	3169.7	*	1	1215	148	180.	1954.8	3211.7	*	1	2035	248	176.	1831.9	3209.7
1	0400	49	76.	207.6	3171.1	*	1	1220	149	180.	1953.5	3211.7	*	1	2040	249	176.	1830.7	3209.7
1	0405	50	82.	247.4	3172.6	*	1	1225	150	180.	1952.3	3211.7	*	1	2045	250	176.	1829.5	3209.7
1	0410	51	88.	293.2	3174.2	*	1	1230	151	180.	1951.1	3211.6	*	1	2050	251	176.	1828.2	3209.7
1	0415	52	95.	345.6	3176.1	*	1	1235	152	180.	1949.8	3211.6	*	1	2055	252	176.	1827.0	3209.7
1	0420	53	102.	405.0	3178.1	*	1	1240	153	180.	1948.6	3211.6	*	1	2100	253	176.	1825.8	3209.6
1	0425	54	109.	472.1	3180.2	*	1	1245	154	180.	1947.3	3211.6	*	1	2105	254	176.	1824.6	3209.6
1	0430	55	115.	547.3	3182.5	*	1	1250	155	180.	1946.1	3211.6	*	1	2110	255	176.	1823.4	3209.6
1	0435	56	122.	631.1	3184.9	*	1	1255	156	180.	1944.9	3211.5	*	1	2115	256	176.	1822.2	3209.6
1	0440	57	129.	723.3	3187.5	*	1	1300	157	180.	1943.6	3211.5	*	1	2120	257	176.	1821.0	3209.6
1	0445	58	135.	823.1	3190.0	*	1	1305	158	180.	1942.4	3211.5	*	1	2125	258	176.	1819.8	3209.6
1	0450	59	141.	929.0	3192.6	*	1	1310	159	180.	1941.1	3211.5	*	1	2130	259	176.	1818.5	3209.5
1	0455	60	147.	1039.6	3195.1	*	1	1315	160	180.	1939.9	3211.5	*	1	2135	260	176.	1817.3	3209.5
1	0500	61	152.	1152.8	3197.6	*	1	1320	161	180.	1938.7	3211.4	*	1	2140	261	176.	1816.1	3209.5
1	0505	62	157.	1266.4	3199.8	*	1	1325	162	180.	1937.4	3211.4	*	1	2145	262	176.	1814.9	3209.5
1	0510	63	162.	1378.3	3202.0	*	1	1330	163	180.	1936.2	3211.4	*	1	2150	263	176.	1813.7	3209.5
1	0515	64	166.	1486.6	3204.0	*	1	1335	164	180.	1934.9	3211.4	*	1	2155	264	176.	1812.5	3209.4
1	0520	65	169.	1590.0	3205.8	*	1	1340	165	180.	1933.7	3211.4	*	1	2200	265	176.	1811.3	3209.4
1	0525	66	172.	1687.6	3207.5	*	1	1345	166	180.	1932.5	3211.3	*	1	2205	266	176.	1810.1	3209.4
1	0530	67	175.	1779.1	3208.9	*	1	1350	167	180.	1931.2	3211.3	*	1	2210	267	176.	1808.8	3209.4
1	0535	68	178.	1864.5	3210.3	*	1	1355	168	180.	1930.0	3211.3	*	1	2215	268	176.	1807.6	3209.4
1	0540	69	180.	1943.9	3211.5	*	1	1400	169	180.	1928.8	3211.3	*	1	2220	269	176.	1806.4	3209.3
1	0545	70	855.	2015.6	3212.6	*	1	1405	170	180.	1927.5	3211.3	*	1	2225	270	176.	1805.2	3209.3
1	0550	71	4830.	2066.3	3213.3	*	1	1410	171	179.	1926.3	3211.2	*	1	2230	271	176.	1804.0	3209.3
1	0555	72	6836.	2091.8	3213.7	*	1	1415	172	179.	1925.0	3211.2	*	1	2235	272	176.	1802.8	3209.3
1	0600	73	7734.	2103.3	3213.8	*	1	1420	173	179.	1923.8	3211.2	*	1	2240	273	176.	1801.6	3209.3
1	0605	74	8009.	2106.8	3213.9	*	1	1425	174	179.	1922.6	3211.2	*	1	2245	274	175.	1800.4	3209.2
1	0610	75	7932.	2105.8	3213.9	*	1	1430	175	179.	1921.3	3211.2	*	1	2250	275	175.	1799.2	3209.2
1	0615	76	7654.	2102.3	3213.8	*	1	1435	176	179.	1920.1	3211.1	*	1	2255	276	175.	1798.0	3209.2
1	0620	77	7260.	2097.2	3213.8	*	1	1440	177	179.	1918.9	3211.1	*	1	2300	277	175.	1796.8	3209.2
1	0625	78	6795.	2091.3	3213.7	*	1	1445	178	179.	1917.6	3211.1	*	1	2305	278	175.	1795.5	3209.2
1	0630	79	6291.	2084.9	3213.6	*	1	1450	179	179.	1916.4	3211.1	*	1	2310	279	175.	1794.3	3209.1
1	0635	80	5766.	2078.2	3213.5	*	1	1455	180	179.	1915.2	3211.1	*	1	2315	280	175.	1793.1	3209.1
1	0640	81	5238.	2071.5	3213.4	*	1	1500	181	179.	1913.9	3211.0	*	1	2320	281	175.	1791.9	3209.1
1	0645	82	4718.	2064.8	3213.3	*	1	1505	182	179.	1912.7	3211.0	*	1	2325	282	175.	1790.7	3209.1
1	0650	83	4219.	2058.5	3213.2	*	1	1510	183	179.	1911.5	3211.0	*	1	2330	283	175.	1789.5	3209.1
1	0655	84	3747.	2052.5	3213.1	*	1	1515	184	179.	1910.2	3211.0	*	1	2335	284	175.	1788.3	3209.1
1	0700	85	3310.	2046.9	3213.1	*	1	1520	185	179.	1909.0	3211.0	*	1	2340	285	175.	1787.1	3209.0
1	0705	86	2910.	2041.8	3213.0	*	1	1525	186	179.	1907.8	3210.9	*	1	2345	286	175.	1785.9	3209.0
1	0710	87	2548.	2037.2	3212.9	*	1	1530	187	179.	1906.5	3210.9	*	1	2350	287	175.	1784.7	3209.0
1	0715	88	2224.	2033.0	3212.9	*	1	1535	188	179.	1905.3	3210.9	*	1	2355	288	175.	1783.5	3209.0
1	0720	89	1934.	2029.3	3212.8	*	1	1540	189	179.	1904.1	3210.9	*	2	0000	289	175.	1782.3	3209.0
1	0725	90	1677.	2026.1	3212.8	*	1	1545	190	179.	1902.8	3210.9	*	2	0005	290	175.	1781.1	3208.9
1	0730	91	1449.	2023.2	3212.7	*	1	1550	191	179.	1901.6	3210.9	*	2	0010	291	175.	1779.9	3208.9
1	0735	92	1248.	2020.6	3212.7	*	1	1555	192	179.	1900.4	3210.8	*	2	0015	292	175.	1778.7	3208.9
1	0740	93	1071.	2018.3	3212.7	*	1	1600	193	179.	1899.2	3210.8	*	2	0020	293	175.	1777.5	3208.9
1	0745	94	914.	2016.3	3212.6	*	1	1605	194	179.	1897.9	3210.8	*	2	0025	294	175.	1776.3	3208.9
1	0750	95	778.	2014.6	3212.6	*	1	1610	195	179.	1896.7	3210.8	*	2	0030	295	175.	1775.1	3208.8
1	0755	96	658.	2013.1	3212.6	*	1	1615	196	179.	1895.5	3210.8	*	2	0035	296	175.	1773.9	3208.8
1	0800	97	555.	2011.8	3212.6	*	1	1620	197	178.	1894.2	3210.7	*	2	0040	297	175.	1772.7	3208.8
1	0805	98	466.	2010.6	3212.6	*	1	1625	198	178.	1893.0	3210.7	*	2	0045	298	175.	1771.5	3208.8
1	0810	99	389.	2009.6	3212.5	*	1	1630	199	178.	1891.8	3210.7	*	2	0050	299	175.	1770.2	3208.8
1	0815	100	324.	2008.8	3212.5	*	1	1635	200	178.	1890.5	3210.7	*	2	0055	300	174.	1769.0	3208.7

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
	(CFS)				
+ 8009.	6.08	1638.	519.	500.	500.

(INCHES)	.278	.352	.352	.352
(AC-FT)	812.	1029.	1029.	1029.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
2107.	6.08	2014.	1606.	1547.	1547.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3213.89	6.08	3212.59	3203.47	3201.90	3201.90

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .93

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
							*								*							
1	0000	1	0.	.0	3161.0	*	1	0820	101	259.	2008.0	3212.5	*	1	1640	201	178.	1889.1	3210.7
1	0005	2	0.	.0	3161.0	*	1	0825	102	215.	2007.4	3212.5	*	1	1645	202	178.	1887.9	3210.6
1	0010	3	0.	.0	3161.0	*	1	0830	103	182.	2006.9	3212.5	*	1	1650	203	178.	1886.6	3210.6
1	0015	4	0.	.0	3161.0	*	1	0835	104	182.	2006.4	3212.5	*	1	1655	204	178.	1885.4	3210.6
1	0020	5	0.	.0	3161.0	*	1	0840	105	182.	2005.7	3212.5	*	1	1700	205	178.	1884.2	3210.6
1	0025	6	0.	.0	3161.0	*	1	0845	106	182.	2005.0	3212.5	*	1	1705	206	178.	1883.0	3210.6
1	0030	7	0.	.0	3161.0	*	1	0850	107	182.	2004.1	3212.5	*	1	1710	207	178.	1881.7	3210.5
1	0035	8	0.	.0	3161.0	*	1	0855	108	182.	2003.2	3212.4	*	1	1715	208	178.	1880.5	3210.5
1	0040	9	0.	.0	3161.0	*	1	0900	109	182.	2002.2	3212.4	*	1	1720	209	178.	1879.3	3210.5
1	0045	10	0.	.0	3161.0	*	1	0905	110	182.	2001.2	3212.4	*	1	1725	210	178.	1878.1	3210.5
1	0050	11	0.	.0	3161.0	*	1	0910	111	182.	2000.1	3212.4	*	1	1730	211	178.	1876.8	3210.5
1	0055	12	0.	.0	3161.0	*	1	0915	112	182.	1999.0	3212.4	*	1	1735	212	178.	1875.6	3210.4
1	0100	13	0.	.1	3161.0	*	1	0920	113	182.	1997.8	3212.4	*	1	1740	213	178.	1874.4	3210.4
1	0105	14	0.	.1	3161.0	*	1	0925	114	182.	1996.7	3212.3	*	1	1745	214	178.	1873.2	3210.4
1	0110	15	0.	.1	3161.0	*	1	0930	115	182.	1995.5	3212.3	*	1	1750	215	178.	1871.9	3210.4
1	0115	16	0.	.1	3161.0	*	1	0935	116	182.	1994.3	3212.3	*	1	1755	216	178.	1870.7	3210.4
1	0120	17	0.	.1	3161.0	*	1	0940	117	182.	1993.1	3212.3	*	1	1800	217	178.	1869.5	3210.3
1	0125	18	0.	.1	3161.0	*	1	0945	118	182.	1991.9	3212.3	*	1	1805	218	178.	1868.3	3210.3
1	0130	19	0.	.2	3161.0	*	1	0950	119	182.	1990.6	3212.3	*	1	1810	219	178.	1867.0	3210.3
1	0135	20	0.	.3	3161.0	*	1	0955	120	181.	1989.4	3212.2	*	1	1815	220	178.	1865.8	3210.3
1	0140	21	0.	.4	3161.0	*	1	1000	121	181.	1988.2	3212.2	*	1	1820	221	178.	1864.6	3210.3
1	0145	22	1.	.5	3161.1	*	1	1005	122	181.	1986.9	3212.2	*	1	1825	222	177.	1863.4	3210.2
1	0150	23	1.	.7	3161.1	*	1	1010	123	181.	1985.7	3212.2	*	1	1830	223	177.	1862.1	3210.2
1	0155	24	1.	.9	3161.1	*	1	1015	124	181.	1984.4	3212.2	*	1	1835	224	177.	1860.9	3210.2
1	0200	25	1.	1.1	3161.1	*	1	1020	125	181.	1983.2	3212.1	*	1	1840	225	177.	1859.7	3210.2
1	0205	26	1.	1.3	3161.1	*	1	1025	126	181.	1981.9	3212.1	*	1	1845	226	177.	1858.5	3210.2
1	0210	27	2.	1.6	3161.2	*	1	1030	127	181.	1980.7	3212.1	*	1	1850	227	177.	1857.3	3210.1
1	0215	28	2.	1.9	3161.2	*	1	1035	128	181.	1979.5	3212.1	*	1	1855	228	177.	1856.0	3210.1
1	0220	29	3.	2.4	3161.3	*	1	1040	129	181.	1978.2	3212.1	*	1	1900	229	177.	1854.8	3210.1
1	0225	30	3.	3.1	3161.3	*	1	1045	130	181.	1977.0	3212.0	*	1	1905	230	177.	1853.6	3210.1
1	0230	31	4.	4.0	3161.4	*	1	1050	131	181.	1975.7	3212.0	*	1	1910	231	177.	1852.4	3210.1
1	0235	32	6.	5.1	3161.6	*	1	1055	132	181.	1974.5	3212.0	*	1	1915	232	177.	1851.2	3210.1
1	0240	33	7.	6.3	3161.7	*	1	1100	133	181.	1973.2	3212.0	*	1	1920	233	177.	1849.9	3210.0
1	0245	34	9.	7.8	3161.9	*	1	1105	134	181.	1972.0	3212.0	*	1	1925	234	177.	1848.7	3210.0
1	0250	35	10.	9.6	3162.0	*	1	1110	135	181.	1970.7	3211.9	*	1	1930	235	177.	1847.5	3210.0
1	0255	36	11.	11.7	3162.1	*	1	1115	136	181.	1969.5	3211.9	*	1	1935	236	177.	1846.3	3210.0
1	0300	37	12.	14.2	3162.3	*	1	1120	137	181.	1968.2	3211.9	*	1	1940	237	177.	1845.1	3210.0
1	0305	38	14.	17.1	3162.4	*	1	1125	138	181.	1967.0	3211.9	*	1	1945	238	177.	1843.8	3209.9
1	0310	39	16.	20.5	3162.6	*	1	1130	139	181.	1965.7	3211.9	*	1	1950	239	177.	1842.6	3209.9
1	0315	40	18.	24.8	3162.8	*	1	1135	140	181.	1964.5	3211.8	*	1	1955	240	177.	1841.4	3209.9
1	0320	41	20.	30.4	3163.1	*	1	1140	141	181.	1963.3	3211.8	*	1	2000	241	177.	1840.2	3209.9
1	0325	42	24.	38.4	3163.5	*	1	1145	142	181.	1962.0	3211.8	*	1	2005	242	177.	1839.0	3209.9
1	0330	43	30.	49.8	3164.1	*	1	1150	143	181.	1960.8	3211.8	*	1	2010	243	177.	1837.8	3209.8
1	0335	44	37.	65.4	3164.9	*	1	1155	144	181.	1959.5	3211.8	*	1	2015	244	177.	1836.5	3209.8
1	0340	45	46.	84.8	3165.9	*	1	1200	145	181.	1958.3	3211.8	*	1	2020	245	177.	1835.3	3209.8
1	0345	46	57.	107.0	3167.0	*	1	1205	146	180.	1957.0	3211.7	*	1	2025	246	177.	1834.1	3209.8
1	0350	47	62.	132.0	3168.0	*	1	1210	147	180.	1955.8	3211.7	*	1	2030	247	177.	1832.9	3209.8
1	0355	48	67.	160.2	3169.1	*	1	1215	148	180.	1954.6	3211.7	*	1	2035	248	176.	1831.7	3209.7
1	0400	49	73.	192.7	3170.5	*	1	1220	149	180.	1953.3	3211.7	*	1	2040	249	176.	1830.5	3209.7
1	0405	50	80.	230.3	3172.0	*	1	1225	150	180.	1952.1	3211.7	*	1	2045	250	176.	1829.2	3209.7
1	0410	51	86.	273.7	3173.5	*	1	1230	151	180.	1950.8	3211.6	*	1	2050	251	176.	1828.0	3209.7
1	0415	52	92.	323.4	3175.3	*	1	1235	152	180.	1949.6	3211.6	*	1	2055	252	176.	1826.8	3209.7
1	0420	53	100.	379.9	3177.3	*	1	1240	153	180.	1948.3	3211.6	*	1	2100	253	176.	1825.6	3209.6
1	0425	54	106.	443.6	3179.3	*	1	1245	154	180.	1947.1	3211.6	*	1	2105	254	176.	1824.4	3209.6
1	0430	55	113.	515.3	3181.6	*	1	1250	155	180.	1945.9	3211.6	*	1	2110	255	176.	1823.2	3209.6
1	0435	56	119.	595.1	3183.9	*	1	1255	156	180.	1944.6	3211.5	*	1	2115	256	176.	1822.0	3209.6
1	0440	57	126.	683.0	3186.4	*	1	1300	157	180.	1943.4	3211.5	*	1	2120	257	176.	1820.7	3209.6
1	0445	58	132.	778.2	3188.8	*	1	1305	158	180.	1942.1	3211.5	*	1	2125	258	176.	1819.5	3209.5
1	0450	59	139.	879.3	3191.4	*	1	1310	159	180.	1940.9	3211.5	*	1	2130	259	176.	1818.3	3209.5
1	0455	60	144.	984.9	3193.8	*	1	1315	160	180.	1939.7	3211.5	*	1	2135	260	176.	1817.1	3209.5
1	0500	61	149.	1093.1	3196.3	*	1	1320	161	180.	1938.4	3211.4	*	1	2140	261	176.	1815.9	3209.5
1	0505	62	154.	1201.8	3198.5	*	1	1325	162	180.	1937.2	3211.4	*	1	2145	262	176.	1814.7	3209.5
1	0510	63	159.	1308.8	3200.7	*	1	1330	163	180.	1936.0	3211.4	*	1	2150	263	176.	1813.5	3209.5
1	0515	64	163.	1412.5	3202.6	*	1	1335	164	180.	1934.7	3211.4	*	1	2155	264	176.	1812.3	3209.4
1	0520	65	166.	1511.5	3204.4	*	1	1340	165	180.	1933.5	3211.4	*	1	2200	265	176.	1811.0	3209.4
1	0525	66	169.	1605.1	3206.0	*	1	1345	166	180.	1932.2	3211.3	*	1	2205	266	176.	1809.8	3209.4
1	0530	67	172.	1692.8	3207.5	*	1	1350	167	180.	1931.0	3211.3	*	1	2210	267	176.	1808.6	3209.4
1	0535	68	175.	1774.7	3208.8	*	1	1355	168	180.	1929.8	3211.3	*	1	2215	268	176.	1807.4	3209.4
1	0540	69	177.	1850.9	3210.0	*	1	1400	169	180.	1928.5	3211.3	*	1	2220	269	176.	1806.2	3209.

1	0545	70	179.	1921.9	3211.2	*	1	1405	170	180.	1927.3	3211.3	*	1	2225	270	176.	1805.0	3209.3
1	0550	71	181.	1988.2	3212.2	*	1	1410	171	179.	1926.1	3211.2	*	1	2230	271	176.	1803.8	3209.3
1	0555	72	2843.	2040.9	3213.0	*	1	1415	172	179.	1924.8	3211.2	*	1	2235	272	176.	1802.6	3209.3
1	0600	73	5293.	2072.1	3213.4	*	1	1420	173	179.	1923.6	3211.2	*	1	2240	273	176.	1801.4	3209.3
1	0605	74	6469.	2087.1	3213.6	*	1	1425	174	179.	1922.3	3211.2	*	1	2245	274	175.	1800.2	3209.2
1	0610	75	6921.	2092.9	3213.7	*	1	1430	175	179.	1921.1	3211.2	*	1	2250	275	175.	1799.0	3209.2
1	0615	76	6956.	2093.4	3213.7	*	1	1435	176	179.	1919.9	3211.1	*	1	2255	276	175.	1797.7	3209.2
1	0620	77	6751.	2090.7	3213.7	*	1	1440	177	179.	1918.6	3211.1	*	1	2300	277	175.	1796.5	3209.2
1	0625	78	6405.	2086.3	3213.6	*	1	1445	178	179.	1917.4	3211.1	*	1	2305	278	175.	1795.3	3209.2
1	0630	79	5978.	2080.9	3213.5	*	1	1450	179	179.	1916.2	3211.1	*	1	2310	279	175.	1794.1	3209.1
1	0635	80	5507.	2074.9	3213.4	*	1	1455	180	179.	1914.9	3211.1	*	1	2315	280	175.	1792.9	3209.1
1	0640	81	5018.	2068.7	3213.4	*	1	1500	181	179.	1913.7	3211.0	*	1	2320	281	175.	1791.7	3209.1
1	0645	82	4529.	2062.4	3213.3	*	1	1505	182	179.	1912.5	3211.0	*	1	2325	282	175.	1790.5	3209.1
1	0650	83	4055.	2056.4	3213.2	*	1	1510	183	179.	1911.2	3211.0	*	1	2330	283	175.	1789.3	3209.1
1	0655	84	3605.	2050.6	3213.1	*	1	1515	184	179.	1910.0	3211.0	*	1	2335	284	175.	1788.1	3209.0
1	0700	85	3186.	2045.3	3213.0	*	1	1520	185	179.	1908.8	3211.0	*	1	2340	285	175.	1786.9	3209.0
1	0705	86	2802.	2040.4	3213.0	*	1	1525	186	179.	1907.5	3210.9	*	1	2345	286	175.	1785.7	3209.0
1	0710	87	2455.	2036.0	3212.9	*	1	1530	187	179.	1906.3	3210.9	*	1	2350	287	175.	1784.5	3209.0
1	0715	88	2142.	2032.0	3212.8	*	1	1535	188	179.	1905.1	3210.9	*	1	2355	288	175.	1783.3	3209.0
1	0720	89	1864.	2028.4	3212.8	*	1	1540	189	179.	1903.8	3210.9	*	2	0000	289	175.	1782.1	3209.0
1	0725	90	1616.	2025.3	3212.8	*	1	1545	190	179.	1902.6	3210.9	*	2	0005	290	175.	1780.9	3208.9
1	0730	91	1397.	2022.5	3212.7	*	1	1550	191	179.	1901.4	3210.8	*	2	0010	291	175.	1779.7	3208.9
1	0735	92	1203.	2020.0	3212.7	*	1	1555	192	179.	1900.2	3210.8	*	2	0015	292	175.	1778.4	3208.9
1	0740	93	1032.	2017.8	3212.7	*	1	1600	193	179.	1898.9	3210.8	*	2	0020	293	175.	1777.2	3208.9
1	0745	94	882.	2015.9	3212.6	*	1	1605	194	179.	1897.7	3210.8	*	2	0025	294	175.	1776.0	3208.9
1	0750	95	750.	2014.2	3212.6	*	1	1610	195	179.	1896.5	3210.8	*	2	0030	295	175.	1774.8	3208.8
1	0755	96	635.	2012.8	3212.6	*	1	1615	196	178.	1895.2	3210.7	*	2	0035	296	175.	1773.6	3208.8
1	0800	97	535.	2011.5	3212.6	*	1	1620	197	178.	1894.0	3210.7	*	2	0040	297	175.	1772.4	3208.8
1	0805	98	449.	2010.4	3212.5	*	1	1625	198	178.	1892.8	3210.7	*	2	0045	298	175.	1771.2	3208.8
1	0810	99	375.	2009.5	3212.5	*	1	1630	199	178.	1891.5	3210.7	*	2	0050	299	175.	1770.0	3208.8
1	0815	100	313.	2008.7	3212.5	*	1	1635	200	178.	1890.3	3210.7	*	2	0055	300	174.	1768.8	3208.7
						*							*						

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
	(CFS)				
+ 6956.	6.25	1387.	456.	439.	439.
	(INCHES)	.236	.310	.310	.310
	(AC-FT)	688.	904.	904.	904.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
2093.	6.25	2010.	1600.	1541.	1541.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3213.70	6.25	3212.53	3203.35	3201.79	3201.79

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .92

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE		DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE		DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000		1	0.	.0	3161.0	*	1	0820		101	256.	2007.9	3212.5	*	1	1640		201	178.	1889.0	3210.7
1	0005		2	0.	.0	3161.0	*	1	0825		102	212.	2007.4	3212.5	*	1	1645		202	178.	1887.8	3210.6
1	0010		3	0.	.0	3161.0	*	1	0830		103	182.	2006.9	3212.5	*	1	1650		203	178.	1886.5	3210.6
1	0015		4	0.	.0	3161.0	*	1	0835		104	182.	2006.3	3212.5	*	1	1655		204	178.	1885.3	3210.6
1	0020		5	0.	.0	3161.0	*	1	0840		105	182.	2005.7	3212.5	*	1	1700		205	178.	1884.1	3210.6
1	0025		6	0.	.0	3161.0	*	1	0845		106	182.	2004.9	3212.5	*	1	1705		206	178.	1882.9	3210.6
1	0030		7	0.	.0	3161.0	*	1	0850		107	182.	2004.0	3212.5	*	1	1710		207	178.	1881.6	3210.5
1	0035		8	0.	.0	3161.0	*	1	0855		108	182.	2003.1	3212.4	*	1	1715		208	178.	1880.4	3210.5
1	0040		9	0.	.0	3161.0	*	1	0900		109	182.	2002.1	3212.4	*	1	1720		209	178.	1879.2	3210.5
1	0045		10	0.	.0	3161.0	*	1	0905		110	182.	2001.1	3212.4	*	1	1725		210	178.	1878.0	3210.5
1	0050		11	0.	.0	3161.0	*	1	0910		111	182.	2000.0	3212.4	*	1	1730		211	178.	1876.7	3210.5
1	0055		12	0.	.0	3161.0	*	1	0915		112	182.	1998.9	3212.4	*	1	1735		212	178.	1875.5	3210.4
1	0100		13	0.	.0	3161.0	*	1	0920		113	182.	1997.7	3212.4	*	1	1740		213	178.	1874.3	3210.4
1	0105		14	0.	.1	3161.0	*	1	0925		114	182.	1996.6	3212.3	*	1	1745		214	178.	1873.1	3210.4
1	0110		15	0.	.1	3161.0	*	1	0930		115	182.	1995.4	3212.3	*	1	1750		215	178.	1871.8	3210.4
1	0115		16	0.	.1	3161.0	*	1	0935		116	182.	1994.2	3212.3	*	1	1755		216	178.	1870.6	3210.4
1	0120		17	0.	.1	3161.0	*	1	0940		117	182.	1993.0	3212.3	*	1	1800		217	178.	1869.4	3210.3
1	0125		18	0.	.1	3161.0	*	1	0945		118	182.	1991.8	3212.3	*	1	1805		218	178.	1868.2	3210.3
1	0130		19	0.	.2	3161.0	*	1	0950		119	182.	1990.5	3212.3	*	1	1810		219	178.	1866.9	3210.3
1	0135		20	0.	.2	3161.0	*	1	0955		120	181.	1989.3	3212.2	*	1	1815		220	178.	1865.7	3210.3
1	0140		21	0.	.4	3161.0	*	1	1000		121	181.	1988.1	3212.2	*	1	1820		221	178.	1864.5	3210.3
1	0145		22	1.	.5	3161.1	*	1	1005		122	181.	1986.8	3212.2	*	1	1825		222	177.	1863.3	3210.2
1	0150		23	1.	.7	3161.1	*	1	1010		123	181.	1985.6	3212.2	*	1	1830		223	177.	1862.0	3210.2
1	0155		24	1.	.9	3161.1	*	1	1015		124	181.	1984.3	3212.2	*	1	1835		224	177.	1860.8	3210.2
1	0200		25	1.	1.0	3161.1	*	1	1020		125	181.	1983.1	3212.1	*	1	1840		225	177.	1859.6	3210.2
1	0205		26	1.	1.2	3161.1	*	1	1025		126	181.	1981.8	3212.1	*	1	1845		226	177.	1858.4	3210.2
1	0210		27	2.	1.5	3161.2	*	1	1030		127	181.	1980.6	3212.1	*	1	1850		227	177.	1857.2	3210.1
1	0215		28	2.	1.8	3161.2	*	1	1035		128	181.	1979.4	3212.1	*	1	1855		228	177.	1855.9	3210.1
1	0220		29	2.	2.2	3161.2	*	1	1040		129	181.	1978.1	3212.1	*	1	1900		229	177.	1854.7	3210.1
1	0225		30	3.	2.9	3161.3	*	1	1045		130	181.	1976.9	3212.0	*	1	1905		230	177.	1853.5	3210.1
1	0230		31	4.	3.7	3161.4	*	1	1050		131	181.	1975.6	3212.0	*	1	1910		231	177.	1852.3	3210.1
1	0235		32	5.	4.7	3161.5	*	1	1055		132	181.	1974.4	3212.0	*	1	1915		232	177.	1851.1	3210.0
1	0240		33	7.	5.9	3161.7	*	1	1100		133	181.	1973.1	3212.0	*	1	1920		233	177.	1849.8	3210.0
1	0245		34	8.	7.3	3161.8	*	1	1105		134	181.	1971.9	3212.0	*	1	1925		234	177.	1848.6	3210.0
1	0250		35	10.	9.0	3162.0	*	1	1110		135	181.	1970.6	3211.9	*	1	1930		235	177.	1847.4	3210.0
1	0255		36	11.	11.0	3162.1	*	1	1115		136	181.	1969.4	3211.9	*	1	1935		236	177.	1846.2	3210.0
1	0300		37	12.	13.3	3162.2	*	1	1120		137	181.	1968.1	3211.9	*	1	1940		237	177.	1845.0	3210.0
1	0305		38	13.	16.0	3162.4	*	1	1125		138	181.	1966.9	3211.9	*	1	1945		238	177.	1843.7	3209.9
1	0310		39	15.	19.3	3162.5	*	1	1130		139	181.	1965.7	3211.9	*	1	1950		239	177.	1842.5	3209.9
1	0315		40	17.	23.4	3162.7	*	1	1135		140	181.	1964.4	3211.8	*	1	1955		240	177.	1841.3	3209.9
1	0320		41	19.	28.8	3163.0	*	1	1140		141	181.	1963.2	3211.8	*	1	2000		241	177.	1840.1	3209.9
1	0325		42	23.	36.5	3163.4	*	1	1145		142	181.	1961.9	3211.8	*	1	2005		242	177.	1838.9	3209.9
1	0330		43	28.	47.5	3164.0	*	1	1150		143	181.	1960.7	3211.8	*	1	2010		243	177.	1837.7	3209.8
1	0335		44	36.	62.6	3164.7	*	1	1155		144	181.	1959.4	3211.8	*	1	2015		244	177.	1836.4	3209.8
1	0340		45	45.	81.5	3165.7	*	1	1200		145	180.	1958.2	3211.7	*	1	2020		245	177.	1835.2	3209.8
1	0345		46	55.	103.3	3166.8	*	1	1205		146	180.	1956.9	3211.7	*	1	2025		246	177.	1834.0	3209.8
1	0350		47	61.	127.6	3167.8	*	1	1210		147	180.	1955.7	3211.7	*	1	2030		247	177.	1832.8	3209.8
1	0355		48	66.	155.3	3168.9	*	1	1215		148	180.	1954.5	3211.7	*	1	2035		248	176.	1831.6	3209.7
1	0400		49	72.	187.0	3170.2	*	1	1220		149	180.	1953.2	3211.7	*	1	2040		249	176.	1830.4	3209.7
1	0405		50	79.	223.7	3171.7	*	1	1225		150	180.	1952.0	3211.7	*	1	2045		250	176.	1829.1	3209.7
1	0410		51	85.	266.2	3173.2	*	1	1230		151	180.	1950.7	3211.6	*	1	2050		251	176.	1827.9	3209.7
1	0415		52	91.	314.8	3175.0	*	1	1235		152	180.	1949.5	3211.6	*	1	2055		252	176.	1826.7	3209.7
1	0420		53	99.	370.0	3176.9	*	1	1240		153	180.	1948.3	3211.6	*	1	2100		253	176.	1825.5	3209.6
1	0425		54	105.	432.5	3178.9	*	1	1245		154	180.	1947.0	3211.6	*	1	2105		254	176.	1824.3	3209.6
1	0430		55	111.	502.6	3181.2	*	1	1250		155	180.	1945.8	3211.6	*	1	2110		255	176.	1823.1	3209.6
1	0435		56	118.	580.9	3183.5	*	1	1255		156	180.	1944.5	3211.5	*	1	2115		256	176.	1821.9	3209.6
1	0440		57	125.	667.0	3185.9	*	1	1300		157	180.	1943.3	3211.5	*	1	2120		257	176.	1820.7	3209.6
1	0445		58	131.	760.4	3188.4	*	1	1305		158	180.	1942.0	3211.5	*	1	2125		258	176.	1819.4	3209.5
1	0450		59	137.	859.6	3190.9	*	1	1310		159	180.	1940.8	3211.5	*	1	2130		259	176.	1818.2	3209.5
1	0455		60	143.	963.2	3193.4	*	1	1315		160	180.	1939.6	3211.5	*	1	2135		260	176.	1817.0	3209.5
1	0500		61	148.	1069.4	3195.7	*	1	1320		161	180.	1938.3	3211.4	*	1	2140		261	176.	1815.8	3209.5
1	0505		62	153.	1176.1	3198.0	*	1	1325		162	180.	1937.1	3211.4	*	1	2145		262	176.	1814.6	3209.5
1	0510		63	158.	1281.2	3200.1	*	1	1330		163	180.	1935.9	3211.4	*	1	2150		263	176.	1813.4	3209.5
1	0515		64	162.	1383.0	3202.1	*	1	1335		164	180.	1934.6	3211.4	*	1	2155		264	176.	1812.2	3209.4
1	0520		65	165.	1480.3	3203.8	*	1	1340		165	180.	1933.4	3211.4	*	1	2200		265	176.	1811.0	3209.4
1	0525		66	168.	1572.3	3205.5	*	1	1345		166	180.	1932.1	3211.3	*	1	2205		266	176.	1809.7	3209.4
1	0530		67	171.	1658.5	3207.0	*	1	1350		167	180.	1930.9	3211.3	*	1	2210		267	176.	1808.5	3209.4
1	0535		68	174.	1739.0	3208.3	*	1	1355		168	180.	1929.7	3211.3	*	1	2215		268	176.	1807.3	3209.4
1	0540		69	176.	1813.9	3209.5	*	1	1400		169	180.	1928.4	3211.3	*	1	2220		269	176.	1806.1	3209.3
1	0545		70	178.	1883.7	3210.6	*	1	1405		170	180.	1927.2	3211.3	*	1	2225		270	176.	1804.9	3209.3
1	0550		71	180.	1948.9	3211.6	*	1	1410		171	179.	1926.0	3211.2	*	1	2230		271	176.	1803.7	3209.3
1	0555		72	356.	2009.2	3212.5	*	1	1415		172	179.	1924.7	3211.2	*	1	2235		272	176.	1802.5	3209.3
1	0600		73	3804.	2053.2	3213.1	*	1	1420		173	179.	1923.5	3211.2	*	1	2240		273	176.	1801.3	3209.3
1	0605		74	5560.	2075.6	3213.5	*	1	1425		174	179.	1922.3	3211.2	*	1	2245		274	175.	1800.1	3209.2
1	0610		75	6348.	2085.6	3213.6	*	1	1430		175	179.	1921.0	3211.2	*	1	2250		275	175.	1798.9	3209.2
1	0615		76	6581.	2088.6	3213.6	*	1	1435		176	179.	1919.8	3211.1	*	1	2255		276	175.	1797.7	3209.2
1	0620		77	6492.	2087.4	3213.6	*	1	1440		177	179.	1918.5	3211.1	*	1	2300		277	175.	1796.4	3209.2
1	0625		78	6218.	2083.9	3213.6	*	1	1445		178	179.	1917.3	3211.1	*	1	2305		278	175.	1795.2	3209.2
1	0630		79	5835.	2079.1	3213.5	*	1	1450		179	179.	1916.1	3211.1	*	1	2310		279	175.	1794.0	3209.1
1	0635		80	5393.	2073.4	3213.4	*	1	1455		180	179.	1914.8	3211.1	*	1	2315		280	175.	1792.8	3209.1
1	0640		81	4924.	2067.5	3213.3	*	1	1500		181	179.	1913.6	3211.0	*	1	2320		281	175.	1791.6	3209.1
1	0645		82	4451.	2061.4	3213.3	*	1	1505		182	179.	1912.4	3211.0	*	1	2325		282	175.	1790.4	3209.1
1	0650		83	3988.	2055.5	3213.2	*	1	1510		183	179.	1911.1	3211.0	*	1	2330		283	175.	1789.2	3209.1
1	0655		84	3547.	2049.9	3213.1	*	1	1515		184	179.	1909.9	3211.0	*	1	2335		284	175.	1788.0	3209.0
1	0700		85	3136.	2044.7	3213.0	*	1	1520		185	179.	1908.7	3211.0	*	1	2340		285	175.	1786.8	3209.0
1	0705		86	2759.	2039.9	3213.0	*	1	1525		186	179.	1907.4	3210.9	*	1	2345		286	175.	1785.6	3209.0
1	0710		87	2417.	2035.5	3212.9	*	1	1530		187	179.	1906.2	3210.9	*	1	2350		287	175.	1784.4	3209.0
1	0715		88	2110.	2031.6	3212.8	*	1	1535		188	179.	1905.0	3210.9	*	1	2355		288	175.	1783.2	3209.0
1	0720		89	1836.	2028.1	3212.8	*	1	1540		189	179.	1903.8	3210.9	*	2	0000		289	175.	1782.0	3209.0
1	0725		90	1592.	2025.0	3212.7	*	1	1545		190	179.	1902.5	3210.9	*	2	0005		290	175.	1780.8	3208.9
1	0730		91	1376.	2022.2	3212.7	*	1	1550		191	179.	1901.3	3210.8	*	2	0010		291	175.	1779.6	3208.9
1	0735		92	1185.	2019.8	3212.7	*	1	1555		192	179.	1900.1	3210.8	*	2	0015		292	175.	1778.4	3208.9
1	0740		93	1017.	2017.6	3212.6	*	1	1600		193	179.	1898.8	3210.8	*	2	0020		293	175.	1777.2	3208.9
1	0745		94	869.	2015.8	3212.6	*	1	1605		194	179.	1897.6	3210.8	*	2	0025		294	175.	1775.9	3208.9
1	0750		95	739.	2014.1	3212.6	*	1	1610		195	179.	1896.4	3210.8	*	2	0030		295	175.	1774.7	3208.8
1	0755		96	626.	2012.7	3212.6	*	1	1615		196	178.	1895.1	3210.7	*	2	0035		296	175.	1773.5	3208.8
1	0800		97	527.	2011.4	3212.6	*	1	1620		197	178.	1893.9	3210.7	*	2	0040		297	175.	1772.3	3208.8
1	0805		98	442.	2010.3	3212.5	*	1	1625		198	178.	1892.7	3210.7	*	2	0045		298	175.	1771.1	3208.8
1	0810		99	370.	2009.4	3212.5	*	1	1630		199	178.	1891.5	3210.7	*	2	0050		299	175.	1769.9	3208.8
1	0815		100	308.	2008.6	3212.5	*	1	1635		200	178.	1890.2	3210.7	*	2	0055		300	174.	1768.7	3208.7
							*								*							

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
	(CFS)				
+ 6581.	6.25	1288.	431.	415.	415.
	(INCHES)	.219	.293	.293	.293
	(AC-FT)	638.	854.	854.	854.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
2089.	6.25	2009.	1598.	1539.	1539.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3213.63	6.25	3212.51	3203.30	3201.75	3201.75

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .91

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	3161.0
1		0005	2	0.	.0	3161.0
1		0010	3	0.	.0	3161.0
1		0015	4	0.	.0	3161.0
1		0020	5	0.	.0	3161.0
1		0025	6	0.	.0	3161.0
1		0030	7	0.	.0	3161.0
1		0035	8	0.	.0	3161.0
1		0040	9	0.	.0	3161.0
1		0045	10	0.	.0	3161.0
1		0050	11	0.	.0	3161.0
1		0055	12	0.	.0	3161.0
1		0100	13	0.	.0	3161.0
1		0105	14	0.	.0	3161.0
1		0110	15	0.	.1	3161.0
1		0115	16	0.	.1	3161.0
1		0120	17	0.	.1	3161.0
1		0125	18	0.	.1	3161.0
1		0130	19	0.	.1	3161.0
1		0135	20	0.	.2	3161.0
1		0140	21	0.	.3	3161.0
1		0145	22	1.	.5	3161.1
1		0150	23	1.	.7	3161.1
1		0155	24	1.	.8	3161.1
1		0200	25	1.	1.0	3161.1
1		0205	26	1.	1.2	3161.1
1		0210	27	2.	1.4	3161.2
1		0215	28	2.	1.7	3161.2
1		0220	29	2.	2.1	3161.2
1		0225	30	3.	2.7	3161.3
1		0230	31	4.	3.5	3161.4
1		0235	32	5.	4.5	3161.5
1		0240	33	6.	5.6	3161.6
1		0245	34	8.	6.9	3161.8
1		0250	35	9.	8.5	3161.9
1		0255	36	11.	10.5	3162.1
1		0300	37	12.	12.7	3162.2
1		0305	38	13.	15.3	3162.3
1		0310	39	15.	18.5	3162.5
1		0315	40	16.	22.4	3162.7
1		0320	41	19.	27.7	3163.0
1		0325	42	23.	35.2	3163.3
1		0330	43	28.	46.0	3163.9
1		0335	44	35.	60.8	3164.6
1		0340	45	44.	79.4	3165.6
1		0345	46	54.	100.7	3166.7
1		0350	47	60.	124.6	3167.7
1		0355	48	65.	151.7	3168.8
1		0400	49	71.	182.9	3170.1
1		0405	50	78.	219.1	3171.5
1		0410	51	84.	260.9	3173.1
1		0415	52	90.	308.7	3174.8
1		0420	53	98.	363.2	3176.7
1		0425	54	104.	424.7	3178.7
1		0430	55	111.	493.9	3180.9
1		0435	56	117.	571.0	3183.2
1		0440	57	124.	656.0	3185.6
1		0445	58	131.	748.1	3188.1
1		0450	59	137.	846.0	3190.6
1		0455	60	142.	948.2	3193.0
1		0500	61	147.	1053.1	3195.4
1		0505	62	152.	1158.4	3197.7
1		0510	63	157.	1262.1	3199.7
1		0515	64	161.	1362.7	3201.7
1		0520	65	165.	1458.8	3203.5
1		0525	66	168.	1549.6	3205.1
1		0530	67	170.	1634.7	3206.6
1		0535	68	173.	1714.3	3207.9
1		0540	69	175.	1788.3	3209.1
1		0545	70	177.	1857.3	3210.1
1		0550	71	179.	1921.7	3211.2
1		0555	72	181.	1981.9	3212.1
1		0600	73	2111.	2031.6	3212.8
1		0605	74	4548.	2062.7	3213.3
1		0610	75	5731.	2077.7	3213.5
1		0615	76	6194.	2083.6	3213.6
1		0620	77	6240.	2084.2	3213.6
1		0625	78	6045.	2081.7	3213.5
1		0630	79	5711.	2077.5	3213.5
1		0635	80	5300.	2072.2	3213.4
1		0640	81	4851.	2066.5	3213.3
1		0645	82	4391.	2060.7	3213.2
1		0650	83	3938.	2054.9	3213.2
1		0655	84	3505.	2049.4	3213.1
1		0700	85	3101.	2044.2	3213.0
1		0705	86	2728.	2039.5	3213.0
1		0710	87	2391.	2035.2	3212.9
1		0715	88	2087.	2031.3	3212.8
1		0720	89	1816.	2027.8	3212.8
1		0725	90	1575.	2024.8	3212.7
1		0730	91	1361.	2022.0	3212.7
1		0735	92	1173.	2019.6	3212.7
1		0740	93	1006.	2017.5	3212.6
1		0745	94	859.	2015.6	3212.6
1		0750	95	731.	2014.0	3212.6
1		0755	96	619.	2012.6	3212.6
1		0800	97	522.	2011.3	3212.6
1		0805	98	438.	2010.3	3212.5
1		0810	99	366.	2009.3	3212.5
1		0815	100	305.	2008.6	3212.5
1		0820	101	253.	2007.9	3212.5
1		0825	102	209.	2007.3	3212.5
1		0830	103	182.	2006.9	3212.5
1		0835	104	182.	2006.3	3212.5
1		0840	105	182.	2005.6	3212.5
1		0845	106	182.	2004.8	3212.5
1		0850	107	182.	2004.0	3212.5
1		0855	108	182.	2003.0	3212.4
1		0900	109	182.	2002.0	3212.4
1		0905	110	182.	2001.0	3212.4
1		0910	111	182.	1999.9	3212.4
1		0915	112	182.	1998.8	3212.4
1		0920	113	182.	1997.7	3212.4
1		0925	114	182.	1996.5	3212.3
1		0930	115	182.	1995.3	3212.3
1		0935	116	182.	1994.1	3212.3
1		0940	117	182.	1992.9	3212.3
1		0945	118	182.	1991.7	3212.3
1		0950	119	181.	1990.5	3212.2
1		0955	120	181.	1989.2	3212.2
1		1000	121	181.	1988.0	3212.2
1		1005	122	181.	1986.8	3212.2
1		1010	123	181.	1985.5	3212.2
1		1015	124	181.	1984.3	3212.2
1		1020	125	181.	1983.0	3212.1
1		1025	126	181.	1981.8	3212.1
1		1030	127	181.	1980.5	3212.1
1		1035	128	181.	1979.3	3212.1
1		1040	129	181.	1978.0	3212.1
1		1045	130	181.	1976.8	3212.0
1		1050	131	181.	1975.5	3212.0
1		1055	132	181.	1974.3	3212.0
1		1100	133	181.	1973.1	3212.0
1		1105	134	181.	1971.8	3212.0
1		1110	135	181.	1970.6	3211.9
1		1115	136	181.	1969.3	3211.9
1		1120	137	181.	1968.1	3211.9
1		1125	138	181.	1966.8	3211.9
1		1130	139	181.	1965.6	3211.9
1		1135	140	181.	1964.3	3211.8
1		1140	141	181.	1963.1	3211.8
1		1145	142	181.	1961.9	3211.8
1		1150	143	181.	1960.6	3211.8
1		1155	144	181.	1959.4	3211.8
1		1200	145	180.	1958.1	3211.7
1		1205	146	180.	1956.9	3211.7
1		1210	147	180.	1955.6	3211.7
1		1215	148	180.	1954.4	3211.7
1		1220	149	180.	1953.1	3211.7
1		1225	150	180.	1951.9	3211.6
1		1230	151	180.	1950.7	3211.6
1		1235	152	180.	1949.4	3211.6
1		1240	153	180.	1948.2	3211.6
1		1245	154	180.	1946.9	3211.6
1		1250	155	180.	1945.7	3211.6
1		1255	156	180.	1944.5	3211.5
1		1300	157	180.	1943.2	3211.5
1		1305	158	180.	1942.0	3211.5
1		1310	159	180.	1940.7	3211.5
1		1315	160	180.	1939.5	3211.5
1		1320	161	180.	1938.3	3211.4
1		1325	162	180.	1937.0	3211.4
1		1330	163	180.	1935.8	3211.4
1		1335	164	180.	1934.6	3211.4
1		1340	165	180.	1933.3	3211.4
1		1345	166	180.	1932.1	3211.3
1		1350	167	180.	1930.8	3211.3
1		1355	168	180.	1929.6	3211.3
1		1400	169	180.	1928.4	3211.3
1		1405	170	180.	1927.1	3211.3
1		1410	171	179.	1925.9	3211.2
1		1415	172	179.	1924.7	3211.2
1		1420	173	179.	1923.4	3211.2
1		1425	174	179.	1922.2	3211.2
1		1430	175	179.	1920.9	3211.2
1		1435	176	179.	1919.7	3211.1
1		1440	177	179.	1918.5	3211.1
1		1445	178	179.	1917.2	3211.1
1		1450	179	179.	1916.0	3211.1
1		1455	180	179.	1914.8	3211.1
1		1500	181	179.	1913.5	3211.0
1		1505	182	179.	1912.3	3211.0
1		1510	183	179.	1911.1	3211.0
1		1515	184	179.	1909.8	3211.0
1		1520	185	179.	1908.6	3211.0
1		1525	186	179.	1907.4	3210.9
1		1530	187	179.	1906.1	3210.9
1		1535	188	179.	1904.9	3210.9
1		1540	189	179.	1903.7	3210.9
1		1545	190	179.	1902.5	3210.9
1		1550	191	179.	1901.2	3210.8
1		1555	192	179.	1900.0	3210.8
1		1600	193	179.	1898.8	3210.8
1		1605	194	179.	1897.5	3210.8
1		1610	195	179.	1896.3	3210.8
1		1615	196	178.	1895.1	3210.7
1		1620	197	178.	1893.8	3210.7
1		1625	198	178.	1892.6	3210.7
1		1630	199	178.	1891.4	3210.7
1		1635	200	178.	1890.2	3210.7
1		1640	201	178.	1888.9	3210.6
1		1645	202	178.	1887.7	3210.6
1		1650	203	178.	1886.5	3210.6
1		1655	204	178.	1885.2	3210.6
1		1700	205	178.	1884.0	3210.6
1		1705	206	178.	1882.7	3210.6
1		1710	207	178.	1881.5	3210.5
1		1715	208	178.	1880.3	3210.5
1		1720	209	178.	1879.1	3210.5
1		1725	210	178.	1877.8	3210.5
1		1730	211	178.	1876.6	3210.5
1		1735	212	178.	1875.4	3210.4
1		1740	213	178.	1874.2	3210.4
1		1745	214	178.	1872.9	3210.4
1		1750	215	178.	1871.7	3210.4
1		1755	216	178.	1870.5	3210.4
1		1800	217	178.	1869.3	3210.3
1		1805	218	178.	1868.0	3210.3
1		1810	219	178.	1866.8	3210.3
1		1815	220	178.	1865.6	3210.3
1		1820	221	178.	1864.4	3210.3
1		1825	222	177.	1863.2	3210.2
1		1830	223	177.	1862.0	3210.2
1		1835	224	177.	1860.8	3210.2
1		1840	225	177.	1859.5	3210.2
1		1845	226	177.	1858.3	3210.2
1		1850	227	177.	1857.0	3210.1
1		1855	228	177.	1855.8	3210.1
1		1900	229	177.	1854.6	3210.1
1		1905	230	177.	1853.4	3210.1
1		1910	231	177.	1852.2	3210.1
1		1915	232	177.	1851.0	3210.0
1		1920	233	177.	1849.8	3210.0
1		1925	234	177.	1848.6	3210.0
1		1930	235	177.	1847.3	3210.0
1		1935	236	177.	1846.1	3210.0
1		1940	237	177.	1844.9	3210.0
1		1945	238	177.	1843.7	3209.9
1		1950	239	177.	1842.5	3209.9
1		1955	240	177.	1841.2	3209.9
1		2000	241	177.	1840.0	3209.9
1		2005	242	177.	1838.8	3209.9
1		2010	243	177.	1837.6	3209.8
1		2015	244	177.	1836.4	3209.8
1		2020	245	177.	1835.2	3209.8
1		2025	246	177.	1833.9	3209.8
1		2030	247	177.	1832.7	3209.8
1		2035	248	176.	1831.5	3209.7
1		2040	249	176.	1830.3	3209.7
1		2045	250	176.	1829.1	3209.7
1		2050	251	176.	1827.9	3209.7
1		2055	252	176.	1826.7	3209.7
1		2100	253	176.	1825.4	3209.6
1		2105	254	176.	1824.2	3209.6
1		2110	255	176.	1823.0	3209.6
1		2115	256	176.	1821.8	3209.6
1		2120	257	176.	1820.6	3209.6
1		2125	258	176.	1819.4	3209.5
1		2130	259	176.	1818.2	3209.5
1		2135	260	176.	1816.9	3209.5
1		2140	261	176.	1815.7	3209.5
1		2145	262	176.	1814.5	3209.5
1		2150	263	176.	1813.3	3209.4
1		2155	264	176.	1812.1	3209.4
1		2200	265	176.	1810.9	3209.4
1		2205	266	176.	1809.7	3209.4
1		2210	267	176.	1808.5	3209.4
1		2215	268	176.	1807.3	3209.4
1		2220	269	176.	1806.0	3209.3
1		2225	270	176.	1804.8	3209.3
1		2230	271	176.	1803.6	3209.3
1		2235	272	176.	1802.4	3209.3
1		2240	273	176.	1801.2	3209.3
1		2245	274	175.	1800.0	3209.2
1		2250	275	175.	1798.8	3209.2
1		2255	276	175.	1797.6	3209.2
1		2300	277	175.	1796.4	3209.2
1		2305	278	175.	1795.2	3209.2
1		2310	279	175.	1794.0	3209.1
1		2315	280	175.	1792.8	3209.1
1		2320	281	175.	1791.5	3209.1
1		2325	282	175.	1790.3	3209.1
1		2330	283	175.	1789.1	3209.1
1		2335	284	175.	1787.9	3209.0
1		2340	285	175.	1786.7	3209.0
1		2345	286	175.	1785.5	3209.0
1		2350	287	175.	1784.3	3209.0
1		2355	288	175.	1783.1	3209.0
1		0000	289	175.	1781.9	3209.0
1		0005	290	175.	1780.7	3208.9
1		0010	291	175.	1779.5	3208.9
1		0015	292	175.	1778.3	3208.9
1		0020	293	175.	1777.1	3208.9
1		0025	294	175.	1775.9	3208.9
1		0030	295	175.	1774.7	3208.8
1		0035	296	175.	1773.5	3208.8
1		0040	297	175.	1772.3	3208.8
1		0045	298	175.	1771.1	3208.8
1		0050	299	175.	1769.9	3208.8
1		0055	300	174.	1768.7	3208.7

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 6240.	6.33	1218.	413.	398.	398.
		(INCHES)	.207	.281	.281	.281
		(AC-FT)	604.	820.	820.	820.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
2084.	6.33	2007.	1596.	1538.	1538.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3213.57	6.33	3212.49	3203.27	3201.71	3201.71

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .90

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	3161.0
1		0005	2	0.	.0	3161.0
1		0010	3	0.	.0	3161.0
1		0015	4	0.	.0	3161.0
1		0020	5	0.	.0	3161.0
1		0025	6	0.	.0	3161.0
1		0030	7	0.	.0	3161.0
1		0035	8	0.	.0	3161.0
1		0040	9	0.	.0	3161.0
1		0045	10	0.	.0	3161.0
1		0050	11	0.	.0	3161.0
1		0055	12	0.	.0	3161.0
1		0100	13	0.	.0	3161.0
1		0105	14	0.	.0	3161.0
1		0110	15	0.	.0	3161.0
1		0115	16	0.	.1	3161.0
1		0120	17	0.	.1	3161.0
1		0125	18	0.	.1	3161.0
1		0130	19	0.	.1	3161.0
1		0135	20	0.	.2	3161.0
1		0140	21	0.	.3	3161.0
1		0145	22	1.	.5	3161.1
1		0150	23	1.	.6	3161.1
1		0155	24	1.	.8	3161.1
1		0200	25	1.	1.0	3161.1
1		0205	26	1.	1.1	3161.1
1		0210	27	1.	1.3	3161.1
1		0215	28	2.	1.6	3161.2
1		0220	29	2.	2.0	3161.2
1		0225	30	3.	2.6	3161.3
1		0230	31	4.	3.4	3161.4
1		0235	32	5.	4.3	3161.5
1		0240	33	6.	5.4	3161.6
1		0245	34	7.	6.7	3161.7
1		0250	35	9.	8.2	3161.9
1		0255	36	11.	10.1	3162.1
1		0300	37	12.	12.3	3162.2
1		0305	38	13.	14.8	3162.3
1		0310	39	14.	17.9	3162.5
1		0315	40	16.	21.8	3162.7
1		0320	41	19.	26.9	3162.9
1		0325	42	22.	34.3	3163.3
1		0330	43	27.	44.9	3163.8
1		0335	44	34.	59.5	3164.6
1		0340	45	43.	77.8	3165.5
1		0345	46	53.	98.8	3166.6
1		0350	47	64.	124.6	3167.6
1		0355	48	74.	156.1	3168.7
1		0400	49	83.	193.4	3170.0
1		0405	50	92.	237.1	3171.4
1		0410	51	101.	287.5	3173.0
1		0415	52	110.	345.1	3174.7
1		0420	53	119.	410.3	3176.5
1		0425	54	128.	483.4	3178.5
1		0430	55	137.	564.9	3180.7
1		0435	56	146.	655.1	3183.0
1		0440	57	155.	754.4	3185.4
1		0445	58	164.	863.2	3187.9
1		0450	59	173.	981.8	3190.5
1		0455	60	181.	1109.8	3193.0
1		0500	61	189.	1245.8	3195.4
1		0505	62	197.	1388.8	3197.7
1		0510	63	204.	1537.4	3199.8
1		0515	64	211.	1690.1	3201.8
1		0520	65	217.	1845.8	3203.7
1		0525	66	222.	2003.1	3205.4
1		0530	67	227.	2160.4	3206.9
1		0535	68	231.	2316.4	3208.3
1		0540	69	235.	2470.1	3209.6
1		0545	70	239.	2620.4	3210.8
1		0550	71	242.	2766.4	3211.9
1		0555	72	245.	2907.3	3212.9
1		0600	73	2111.	3042.3	3213.8
1		0605	74	4548.	3123.3	3214.4
1		0610	75	5731.	3151.3	3214.7
1		0615	76	6194.	3158.8	3214.8
1		0620	77	6240.	3159.4	3214.8
1		0625	78	6045.	3156.9	3214.8
1		0630	79	5711.	3152.7	3214.7
1		0635	80	5300.	3147.4	3214.6
1		0640	81	4851.	3141.7	3214.5
1		0645	82	4391.	3135.9	3214.4
1		0650	83	3938.	3130.1	3214.3
1		0655	84	3505.	3124.6	3214.2
1		0700	85	3101.	3119.4	3214.1
1		0705	86	2728.	3114.7	3214.0
1		0710	87	2391.	3110.4	3213.9
1		0715	88	2087.	3106.5	3213.8
1		0720	89	1816.	3103.0	3213.8
1		0725	90	1575.	3100.0	3213.7
1		0730	91	1361.	3097.2	3213.7
1		0735	92	1173.	3094.8	3213.7
1		0740	93	1006.	3092.7	3213.6
1		0745	94	859.	3090.8	3213.6
1		0750	95	731.	3089.2	3213.6
1		0755	96	619.	3087.8	3213.6
1		0800	97	522.	3086.5	3213.6
1		0805	98	438.	3085.5	3213.5
1		0810	99	366.	3084.5	3213.5
1		0815	100	305.	3083.8	3213.5
1		0820	101	253.	3083.1	3213.5
1		0825	102	209.	3082.5	3213.5
1		0830	103	182.	3082.0	3213.5
1		0835	104	182.	3081.4	3213.5
1		0840	105	182.	3080.8	3213.5
1		0845	106	182.	3080.0	3213.5
1		0850	107	182.	3079.2	3213.5
1		0855	108	182.	3078.2	3213.4
1		0900	109	182.	3077.2	3213.4
1		0905	110	182.	3076.2	3213.4
1		0910	111	182.	3075.2	3213.4
1		0915	112	182.	3074.1	3213.4
1		0920	113	182.	3073.1	3213.4
1		0925	114	182.	3072.0	3213.3
1		0930	115	182.	3070.9	3213.3
1		0935	116	182.	3069.8	3213.3
1		0940	117	182.	3068.6	3213.3
1		0945	118	182.	3067.4	3213.3
1		0950	119	181.	3066.2	3213.2
1		0955	120	181.	3065.0	3213.2
1		1000	121	181.	3063.8	3213.2
1		1005	122	181.	3062.6	3213.2
1		1010	123	181.	3061.4	3213.2
1		1015	124	181.	3060.2	3213.2
1		1020	125	181.	3059.0	3213.1
1		1025	126	181.	3057.8	3213.1
1		1030	127	181.	3056.6	3213.1
1		1035	128	181.	3055.4	3213.1
1		1040	129	181.	3054.2	3213.1
1		1045	130	181.	3053.0	3213.0
1		1050	131	181.	3051.8	3213.0
1		1055	132	181.	3050.6	3213.0
1		1100	133	181.	3049.4	3213.0
1		1105	134	181.	3048.2	3213.0
1		1110	135	181.	3047.0	3212.9
1		1115	136	181.	3045.8	3212.9
1		1120	137	181.	3044.6	3212.9
1		1125	138	181.	3043.4	3212.9
1		1130	139	181.	3042.2	3212.9
1		1135	140	181.	3041.0	3212.8
1		1140	141	181.	3039.8	3212.8
1		1145	142	181.	3038.6	3212.8
1		1150	143	181.	3037.4	3212.8
1		1155	144	181.	3036.2	3212.8
1		1200	145	180.	3035.0	3212.7
1		1205	146	180.	3033.8	3212.7
1		1210	147	180.	3032.6	3212.7
1		1215	148	180.	3031.4	3212.7
1		1220	149	180.	3030.2	3212.7
1		1225	150	180.	3029.0	3212.6
1		1230	151	180.	3027.8	3212.6
1		1235	152	180.	3026.6	3212.6
1		1240	153	180.	3025.4	3212.6
1		1245	154	180.	3024.2	3212.6
1		1250	155	180.	3023.0	3212.6
1		1255	156	180.	3021.8	3212.5

1	0350	47	60.	122.5	3167.6	*	1	1210	147	180.	1955.6	3211.7	*	1	2030	247	177.	1832.7	3209.8
1	0355	48	65.	149.2	3168.7	*	1	1215	148	180.	1954.3	3211.7	*	1	2035	248	176.	1831.5	3209.7
1	0400	49	71.	180.0	3169.9	*	1	1220	149	180.	1953.1	3211.7	*	1	2040	249	176.	1830.3	3209.7
1	0405	50	77.	215.8	3171.4	*	1	1225	150	180.	1951.9	3211.6	*	1	2045	250	176.	1829.0	3209.7
1	0410	51	84.	257.1	3172.9	*	1	1230	151	180.	1950.6	3211.6	*	1	2050	251	176.	1827.8	3209.7
1	0415	52	90.	304.4	3174.6	*	1	1235	152	180.	1949.4	3211.6	*	1	2055	252	176.	1826.6	3209.7
1	0420	53	97.	358.3	3176.5	*	1	1240	153	180.	1948.1	3211.6	*	1	2100	253	176.	1825.4	3209.6
1	0425	54	104.	419.2	3178.5	*	1	1245	154	180.	1946.9	3211.6	*	1	2105	254	176.	1824.2	3209.6
1	0430	55	110.	487.6	3180.7	*	1	1250	155	180.	1945.7	3211.6	*	1	2110	255	176.	1823.0	3209.6
1	0435	56	117.	563.9	3183.0	*	1	1255	156	180.	1944.4	3211.5	*	1	2115	256	176.	1821.8	3209.6
1	0440	57	123.	648.1	3185.4	*	1	1300	157	180.	1943.2	3211.5	*	1	2120	257	176.	1820.5	3209.6
1	0445	58	130.	739.2	3187.9	*	1	1305	158	180.	1941.9	3211.5	*	1	2125	258	176.	1819.3	3209.5
1	0450	59	136.	836.2	3190.3	*	1	1310	159	180.	1940.7	3211.5	*	1	2130	259	176.	1818.1	3209.5
1	0455	60	142.	937.4	3192.8	*	1	1315	160	180.	1939.5	3211.5	*	1	2135	260	176.	1816.9	3209.5
1	0500	61	147.	1041.3	3195.1	*	1	1320	161	180.	1938.2	3211.4	*	1	2140	261	176.	1815.7	3209.5
1	0505	62	152.	1145.6	3197.4	*	1	1325	162	180.	1937.0	3211.4	*	1	2145	262	176.	1814.5	3209.5
1	0510	63	156.	1248.4	3199.5	*	1	1330	163	180.	1935.7	3211.4	*	1	2150	263	176.	1813.3	3209.4
1	0515	64	161.	1348.0	3201.4	*	1	1335	164	180.	1934.5	3211.4	*	1	2155	264	176.	1812.1	3209.4
1	0520	65	164.	1443.2	3203.2	*	1	1340	165	180.	1933.3	3211.4	*	1	2200	265	176.	1810.8	3209.4
1	0525	66	167.	1533.2	3204.8	*	1	1345	166	180.	1932.0	3211.3	*	1	2205	266	176.	1809.6	3209.4
1	0530	67	170.	1617.7	3206.3	*	1	1350	167	180.	1930.8	3211.3	*	1	2210	267	176.	1808.4	3209.4
1	0535	68	172.	1696.5	3207.6	*	1	1355	168	180.	1929.6	3211.3	*	1	2215	268	176.	1807.2	3209.4
1	0540	69	175.	1769.9	3208.8	*	1	1400	169	180.	1928.3	3211.3	*	1	2220	269	176.	1806.0	3209.3
1	0545	70	177.	1838.3	3209.8	*	1	1405	170	180.	1927.1	3211.3	*	1	2225	270	176.	1804.8	3209.3
1	0550	71	179.	1902.1	3210.9	*	1	1410	171	179.	1925.8	3211.2	*	1	2230	271	176.	1803.6	3209.3
1	0555	72	181.	1961.8	3211.8	*	1	1415	172	179.	1924.6	3211.2	*	1	2235	272	176.	1802.4	3209.3
1	0600	73	843.	2015.4	3212.6	*	1	1420	173	179.	1923.4	3211.2	*	1	2240	273	176.	1801.2	3209.3
1	0605	74	3793.	2053.0	3213.1	*	1	1425	174	179.	1922.1	3211.2	*	1	2245	274	175.	1800.0	3209.2
1	0610	75	5272.	2071.9	3213.4	*	1	1430	175	179.	1920.9	3211.2	*	1	2250	275	175.	1798.7	3209.2
1	0615	76	5906.	2080.0	3213.5	*	1	1435	176	179.	1919.7	3211.1	*	1	2255	276	175.	1797.5	3209.2
1	0620	77	6054.	2081.9	3213.5	*	1	1440	177	179.	1918.4	3211.1	*	1	2300	277	175.	1796.3	3209.2
1	0625	78	5919.	2080.1	3213.5	*	1	1445	178	179.	1917.2	3211.1	*	1	2305	278	175.	1795.1	3209.2
1	0630	79	5621.	2076.3	3213.5	*	1	1450	179	179.	1916.0	3211.1	*	1	2310	279	175.	1793.9	3209.1
1	0635	80	5232.	2071.4	3213.4	*	1	1455	180	179.	1914.7	3211.1	*	1	2315	280	175.	1792.7	3209.1
1	0640	81	4798.	2065.8	3213.3	*	1	1500	181	179.	1913.5	3211.0	*	1	2320	281	175.	1791.5	3209.1
1	0645	82	4348.	2060.1	3213.2	*	1	1505	182	179.	1912.3	3211.0	*	1	2325	282	175.	1790.3	3209.1
1	0650	83	3902.	2054.4	3213.2	*	1	1510	183	179.	1911.0	3211.0	*	1	2330	283	175.	1789.1	3209.1
1	0655	84	3475.	2049.0	3213.1	*	1	1515	184	179.	1909.8	3211.0	*	1	2335	284	175.	1787.9	3209.0
1	0700	85	3075.	2043.9	3213.0	*	1	1520	185	179.	1908.6	3211.0	*	1	2340	285	175.	1786.7	3209.0
1	0705	86	2706.	2039.2	3212.9	*	1	1525	186	179.	1907.3	3210.9	*	1	2345	286	175.	1785.5	3209.0
1	0710	87	2372.	2034.9	3212.9	*	1	1530	187	179.	1906.1	3210.9	*	1	2350	287	175.	1784.3	3209.0
1	0715	88	2071.	2031.1	3212.8	*	1	1535	188	179.	1904.9	3210.9	*	1	2355	288	175.	1783.1	3209.0
1	0720	89	1802.	2027.7	3212.8	*	1	1540	189	179.	1903.6	3210.9	*	2	0000	289	175.	1781.9	3209.0
1	0725	90	1563.	2024.6	3212.7	*	1	1545	190	179.	1902.4	3210.9	*	2	0005	290	175.	1780.7	3208.9
1	0730	91	1351.	2021.9	3212.7	*	1	1550	191	179.	1901.2	3210.8	*	2	0010	291	175.	1779.4	3208.9
1	0735	92	1164.	2019.5	3212.7	*	1	1555	192	179.	1899.9	3210.8	*	2	0015	292	175.	1778.2	3208.9
1	0740	93	998.	2017.4	3212.6	*	1	1600	193	179.	1898.7	3210.8	*	2	0020	293	175.	1777.0	3208.9
1	0745	94	853.	2015.6	3212.6	*	1	1605	194	179.	1897.5	3210.8	*	2	0025	294	175.	1775.8	3208.9
1	0750	95	725.	2013.9	3212.6	*	1	1610	195	179.	1896.3	3210.8	*	2	0030	295	175.	1774.6	3208.8
1	0755	96	614.	2012.5	3212.6	*	1	1615	196	178.	1895.0	3210.7	*	2	0035	296	175.	1773.4	3208.8
1	0800	97	518.	2011.3	3212.6	*	1	1620	197	178.	1893.8	3210.7	*	2	0040	297	175.	1772.2	3208.8
1	0805	98	435.	2010.2	3212.5	*	1	1625	198	178.	1892.6	3210.7	*	2	0045	298	175.	1771.0	3208.8
1	0810	99	363.	2009.3	3212.5	*	1	1630	199	178.	1891.3	3210.7	*	2	0050	299	175.	1769.8	3208.8
1	0815	100	302.	2008.5	3212.5	*	1	1635	200	178.	1890.1	3210.7	*	2	0055	300	174.	1768.6	3208.7

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
	(CFS)				
+ 6054.	6.33	1169.	401.	386.	386.
	(INCHES)	.199	.272	.272	.272
	(AC-FT)	580.	795.	795.	795.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
2082.	6.33	2006.	1595.	1536.	1536.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3213.54	6.33	3212.48	3203.24	3201.69	3201.69

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .89

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE		DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE		DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000		1	0.	.0	3161.0	*	1	0820		101	248.	2007.8	3212.5	*	1	1640		201	178.	1888.8	3210.6
1	0005		2	0.	.0	3161.0	*	1	0825		102	205.	2007.3	3212.5	*	1	1645		202	178.	1887.6	3210.6
1	0010		3	0.	.0	3161.0	*	1	0830		103	182.	2006.8	3212.5	*	1	1650		203	178.	1886.4	3210.6
1	0015		4	0.	.0	3161.0	*	1	0835		104	182.	2006.2	3212.5	*	1	1655		204	178.	1885.1	3210.6
1	0020		5	0.	.0	3161.0	*	1	0840		105	182.	2005.5	3212.5	*	1	1700		205	178.	1883.9	3210.6
1	0025		6	0.	.0	3161.0	*	1	0845		106	182.	2004.8	3212.5	*	1	1705		206	178.	1882.7	3210.6
1	0030		7	0.	.0	3161.0	*	1	0850		107	182.	2003.9	3212.5	*	1	1710		207	178.	1881.4	3210.5
1	0035		8	0.	.0	3161.0	*	1	0855		108	182.	2002.9	3212.4	*	1	1715		208	178.	1880.2	3210.5
1	0040		9	0.	.0	3161.0	*	1	0900		109	182.	2001.9	3212.4	*	1	1720		209	178.	1879.0	3210.5
1	0045		10	0.	.0	3161.0	*	1	0905		110	182.	2000.9	3212.4	*	1	1725		210	178.	1877.8	3210.5
1	0050		11	0.	.0	3161.0	*	1	0910		111	182.	1999.8	3212.4	*	1	1730		211	178.	1876.5	3210.5
1	0055		12	0.	.0	3161.0	*	1	0915		112	182.	1998.7	3212.4	*	1	1735		212	178.	1875.3	3210.4
1	0100		13	0.	.0	3161.0	*	1	0920		113	182.	1997.5	3212.4	*	1	1740		213	178.	1874.1	3210.4
1	0105		14	0.	.0	3161.0	*	1	0925		114	182.	1996.4	3212.3	*	1	1745		214	178.	1872.9	3210.4
1	0110		15	0.	.0	3161.0	*	1	0930		115	182.	1995.2	3212.3	*	1	1750		215	178.	1871.6	3210.4
1	0115		16	0.	.0	3161.0	*	1	0935		116	182.	1994.0	3212.3	*	1	1755		216	178.	1870.4	3210.4
1	0120		17	0.	.1	3161.0	*	1	0940		117	182.	1992.8	3212.3	*	1	1800		217	178.	1869.2	3210.3
1	0125		18	0.	.1	3161.0	*	1	0945		118	182.	1991.6	3212.3	*	1	1805		218	178.	1868.0	3210.3
1	0130		19	0.	.1	3161.0	*	1	0950		119	181.	1990.3	3212.2	*	1	1810		219	178.	1866.7	3210.3
1	0135		20	0.	.2	3161.0	*	1	0955		120	181.	1989.1	3212.2	*	1	1815		220	178.	1865.5	3210.3
1	0140		21	0.	.3	3161.0	*	1	1000		121	181.	1987.9	3212.2	*	1	1820		221	178.	1864.3	3210.3
1	0145		22	0.	.4	3161.0	*	1	1005		122	181.	1986.6	3212.2	*	1	1825		222	177.	1863.1	3210.2
1	0150		23	1.	.6	3161.1	*	1	1010		123	181.	1985.4	3212.2	*	1	1830		223	177.	1861.9	3210.2
1	0155		24	1.	.8	3161.1	*	1	1015		124	181.	1984.1	3212.2	*	1	1835		224	177.	1860.6	3210.2
1	0200		25	1.	.9	3161.1	*	1	1020		125	181.	1982.9	3212.1	*	1	1840		225	177.	1859.4	3210.2
1	0205		26	1.	1.1	3161.1	*	1	1025		126	181.	1981.7	3212.1	*	1	1845		226	177.	1858.2	3210.2
1	0210		27	1.	1.3	3161.1	*	1	1030		127	181.	1980.4	3212.1	*	1	1850		227	177.	1857.0	3210.1
1	0215		28	2.	1.5	3161.2	*	1	1035		128	181.	1979.2	3212.1	*	1	1855		228	177.	1855.8	3210.1
1	0220		29	2.	1.9	3161.2	*	1	1040		129	181.	1977.9	3212.1	*	1	1900		229	177.	1854.5	3210.1
1	0225		30	3.	2.5	3161.3	*	1	1045		130	181.	1976.7	3212.0	*	1	1905		230	177.	1853.3	3210.1
1	0230		31	4.	3.2	3161.4	*	1	1050		131	181.	1975.4	3212.0	*	1	1910		231	177.	1852.1	3210.1
1	0235		32	5.	4.1	3161.5	*	1	1055		132	181.	1974.2	3212.0	*	1	1915		232	177.	1850.9	3210.0
1	0240		33	6.	5.1	3161.6	*	1	1100		133	181.	1972.9	3212.0	*	1	1920		233	177.	1849.7	3210.0
1	0245		34	7.	6.3	3161.7	*	1	1105		134	181.	1971.7	3212.0	*	1	1925		234	177.	1848.4	3210.0
1	0250		35	9.	7.8	3161.9	*	1	1110		135	181.	1970.4	3211.9	*	1	1930		235	177.	1847.2	3210.0
1	0255		36	10.	9.6	3162.0	*	1	1115		136	181.	1969.2	3211.9	*	1	1935		236	177.	1846.0	3210.0
1	0300		37	11.	11.7	3162.1	*	1	1120		137	181.	1967.9	3211.9	*	1	1940		237	177.	1844.8	3209.9
1	0305		38	12.	14.1	3162.3	*	1	1125		138	181.	1966.7	3211.9	*	1	1945		238	177.	1843.6	3209.9
1	0310		39	14.	17.0	3162.4	*	1	1130		139	181.	1965.5	3211.9	*	1	1950		239	177.	1842.3	3209.9
1	0315		40	16.	20.7	3162.6	*	1	1135		140	181.	1964.2	3211.8	*	1	1955		240	177.	1841.1	3209.9
1	0320		41	18.	25.7	3162.9	*	1	1140		141	181.	1963.0	3211.8	*	1	2000		241	177.	1839.9	3209.9
1	0325		42	21.	32.8	3163.2	*	1	1145		142	181.	1961.7	3211.8	*	1	2005		242	177.	1838.7	3209.9
1	0330		43	26.	43.1	3163.7	*	1	1150		143	181.	1960.5	3211.8	*	1	2010		243	177.	1837.5	3209.8
1	0335		44	33.	57.4	3164.5	*	1	1155		144	181.	1959.2	3211.8	*	1	2015		244	177.	1836.3	3209.8
1	0340		45	42.	75.3	3165.4	*	1	1200		145	180.	1958.0	3211.7	*	1	2020		245	177.	1835.0	3209.8
1	0345		46	52.	95.9	3166.4	*	1	1205		146	180.	1956.8	3211.7	*	1	2025		246	177.	1833.8	3209.8
1	0350		47	59.	119.1	3167.5	*	1	1210		147	180.	1955.5	3211.7	*	1	2030		247	177.	1832.6	3209.8
1	0355		48	64.	145.4	3168.5	*	1	1215		148	180.	1954.3	3211.7	*	1	2035		248	176.	1831.4	3209.7
1	0400		49	70.	175.6	3169.8	*	1	1220		149	180.	1953.0	3211.7	*	1	2040		249	176.	1830.2	3209.7
1	0405		50	76.	210.6	3171.2	*	1	1225		150	180.	1951.8	3211.6	*	1	2045		250	176.	1829.0	3209.7
1	0410		51	83.	251.2	3172.7	*	1	1230		151	180.	1950.5	3211.6	*	1	2050		251	176.	1827.7	3209.7
1	0415		52	89.	297.6	3174.4	*	1	1235		152	180.	1949.3	3211.6	*	1	2055		252	176.	1826.5	3209.7
1	0420		53	96.	350.5	3176.2	*	1	1240		153	180.	1948.1	3211.6	*	1	2100		253	176.	1825.3	3209.6
1	0425		54	103.	410.4	3178.2	*	1	1245		154	180.	1946.8	3211.6	*	1	2105		254	176.	1824.1	3209.6
1	0430		55	109.	477.6	3180.4	*	1	1250		155	180.	1945.6	3211.5	*	1	2110		255	176.	1822.9	3209.6
1	0435		56	116.	552.7	3182.7	*	1	1255		156	180.	1944.3	3211.5	*	1	2115		256	176.	1821.7	3209.6
1	0440		57	122.	635.5	3185.0	*	1	1300		157	180.	1943.1	3211.5	*	1	2120		257	176.	1820.5	3209.6
1	0445		58	129.	725.2	3187.5	*	1	1305		158	180.	1941.9	3211.5	*	1	2125		258	176.	1819.3	3209.5
1	0450		59	135.	820.6	3189.9	*	1	1310		159	180.	1940.6	3211.5	*	1	2130		259	176.	1818.0	3209.5
1	0455		60	141.	920.3	3192.4	*	1	1315		160	180.	1939.4	3211.5	*	1	2135		260	176.	1816.8	3209.5
1	0500		61	146.	1022.6	3194.7	*	1	1320		161	180.	1938.1	3211.4	*	1	2140		261	176.	1815.6	3209.5
1	0505		62	151.	1125.4	3197.0	*	1	1325		162	180.	1936.9	3211.4	*	1	2145		262	176.	1814.4	3209.5
1	0510		63	155.	1226.6	3199.0	*	1	1330		163	180.	1935.7	3211.4	*	1	2150		263	176.	1813.2	3209.4
1	0515		64	160.	1324.8	3201.0	*	1	1335		164	180.	1934.4	3211.4	*	1	2155		264	176.	1812.0	3209.4
1	0520		65	163.	1418.6	3202.8	*	1	1340		165	180.	1933.2	3211.4	*	1	2200		265	176.	1810.8	3209.4
1	0525		66	166.	1507.3	3204.3	*	1	1345		166	180.	1932.0	3211.3	*	1	2205		266	176.	1809.6	3209.4
1	0530		67	169.	1590.5	3205.8	*	1	1350		167	180.	1930.7	3211.3	*	1	2210		267	176.	1808.3	3209.4
1	0535		68	171.	1668.2	3207.1	*	1	1355		168	180.	1929.5	3211.3	*	1	2215		268	176.	1807.1	3209.4
1	0540		69	174.	1740.6	3208.3	*	1	1400		169	180.	1928.2	3211.3	*	1	2220		269	176.	1805.9	3209.3
1	0545		70	176.	1808.1	3209.4	*	1	1405		170	180.	1927.0	3211.3	*	1	2225		270	176.	1804.7	3209.3
1	0550		71	178.	1871.0	3210.4	*	1	1410		171	179.	1925.8	3211.2	*	1	2230		271	176.	1803.5	3209.3
1	0555		72	180.	1929.9	3211.3	*	1	1415		172	179.	1924.5	3211.2	*	1	2235		272	176.	1802.3	3209.3
1	0600		73	181.	1985.1	3212.2	*	1	1420		173	179.	1923.3	3211.2	*	1	2240		273	176.	1801.1	3209.3
1	0605		74	2016.	2030.4	3212.8	*	1	1425		174	179.	1922.1	3211.2	*	1	2245		274	175.	1799.9	3209.2
1	0610		75	4210.	2058.4	3213.2	*	1	1430		175	179.	1920.8	3211.2	*	1	2250		275	175.	1798.7	3209.2
1	0615		76	5259.	2071.7	3213.4	*	1	1435		176	179.	1919.6	3211.1	*	1	2255		276	175.	1797.5	3209.2
1	0620		77	5648.	2076.7	3213.5	*	1	1440		177	179.	1918.4	3211.1	*	1	2300		277	175.	1796.3	3209.2
1	0625		78	5654.	2076.8	3213.5	*	1	1445		178	179.	1917.1	3211.1	*	1	2305		278	175.	1795.0	3209.2
1	0630		79	5441.	2074.0	3213.4	*	1	1450		179	179.	1915.9	3211.1	*	1	2310		279	175.	1793.8	3209.1
1	0635		80	5103.	2069.7	3213.4	*	1	1455		180	179.	1914.7	3211.1	*	1	2315		280	175.	1792.6	3209.1
1	0640		81	4701.	2064.6	3213.3	*	1	1500		181	179.	1913.4	3211.0	*	1	2320		281	175.	1791.4	3209.1
1	0645		82	4272.	2059.1	3213.2	*	1	1505		182	179.	1912.2	3211.0	*	1	2325		282	175.	1790.2	3209.1
1	0650		83	3841.	2053.6	3213.1	*	1	1510		183	179.	1911.0	3211.0	*	1	2330		283	175.	1789.0	3209.1
1	0655		84	3425.	2048.3	3213.1	*	1	1515		184	179.	1909.7	3211.0	*	1	2335		284	175.	1787.8	3209.0
1	0700		85	3032.	2043.3	3213.0	*	1	1520		185	179.	1908.5	3211.0	*	1	2340		285	175.	1786.6	3209.0
1	0705		86	2670.	2038.7	3212.9	*	1	1525		186	179.	1907.3	3210.9	*	1	2345		286	175.	1785.4	3209.0
1	0710		87	2341.	2034.5	3212.9	*	1	1530		187	179.	1906.0	3210.9	*	1	2350		287	175.	1784.2	3209.0
1	0715		88	2044.	2030.7	3212.8	*	1	1535		188	179.	1904.8	3210.9	*	1	2355		288	175.	1783.0	3209.0
1	0720		89	1779.	2027.4	3212.8	*	1	1540		189	179.	1903.6	3210.9	*	2	0000		289	175.	1781.8	3208.9
1	0725		90	1543.	2024.4	3212.7	*	1	1545		190	179.	1902.3	3210.9	*	2	0005		290	175.	1780.6	3208.9
1	0730		91	1334.	2021.7	3212.7	*	1	1550		191	179.	1901.1	3210.8	*	2	0010		291	175.	1779.4	3208.9
1	0735		92	1149.	2019.3	3212.7	*	1	1555		192	179.	1899.9	3210.8	*	2	0015		292	175.	1778.2	3208.9
1	0740		93	986.	2017.2	3212.6	*	1	1600		193	179.	1898.6	3210.8	*	2	0020		293	175.	1777.0	3208.9
1	0745		94	842.	2015.4	3212.6	*	1	1605		194	179.	1897.4	3210.8	*	2	0025		294	175.	1775.8	3208.9
1	0750		95	717.	2013.8	3212.6	*	1	1610		195	179.	1896.2	3210.8	*	2	0030		295	175.	1774.6	3208.8
1	0755		96	607.	2012.4	3212.6	*	1	1615		196	178.	1895.0	3210.7	*	2	0035		296	175.	1773.4	3208.8
1	0800		97	511.	2011.2	3212.6	*	1	1620		197	178.	1893.7	3210.7	*	2	0040		297	175.	1772.2	3208.8
1	0805		98	429.	2010.2	3212.5	*	1	1625		198	178.

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 5654.	6.42	1090.	381.	367.	367.
		(INCHES) .185	.259	.259	.259
		(AC-FT) 540.	756.	756.	756.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
2077.	6.42	2005.	1593.	1535.	1535.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3213.47	6.42	3212.45	3203.20	3201.65	3201.65

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .88

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	3161.0	1		0820	101	244.	2007.8	3212.5	1		1640	201	178.	1888.7	3210.6
1		0005	2	0.	.0	3161.0	1		0825	102	202.	2007.3	3212.5	1		1645	202	178.	1887.5	3210.6
1		0010	3	0.	.0	3161.0	1		0830	103	182.	2006.8	3212.5	1		1650	203	178.	1886.3	3210.6
1		0015	4	0.	.0	3161.0	1		0835	104	182.	2006.2	3212.5	1		1655	204	178.	1885.0	3210.6
1		0020	5	0.	.0	3161.0	1		0840	105	182.	2005.5	3212.5	1		1700	205	178.	1883.8	3210.6
1		0025	6	0.	.0	3161.0	1		0845	106	182.	2004.7	3212.5	1		1705	206	178.	1882.6	3210.5
1		0030	7	0.	.0	3161.0	1		0850	107	182.	2003.8	3212.5	1		1710	207	178.	1881.4	3210.5
1		0035	8	0.	.0	3161.0	1		0855	108	182.	2002.9	3212.4	1		1715	208	178.	1880.1	3210.5
1		0040	9	0.	.0	3161.0	1		0900	109	182.	2001.9	3212.4	1		1720	209	178.	1878.9	3210.5
1		0045	10	0.	.0	3161.0	1		0905	110	182.	2000.8	3212.4	1		1725	210	178.	1877.7	3210.5
1		0050	11	0.	.0	3161.0	1		0910	111	182.	1999.7	3212.4	1		1730	211	178.	1876.4	3210.5
1		0055	12	0.	.0	3161.0	1		0915	112	182.	1998.6	3212.4	1		1735	212	178.	1875.2	3210.4
1		0100	13	0.	.0	3161.0	1		0920	113	182.	1997.5	3212.4	1		1740	213	178.	1874.0	3210.4
1		0105	14	0.	.0	3161.0	1		0925	114	182.	1996.3	3212.3	1		1745	214	178.	1872.8	3210.4
1		0110	15	0.	.0	3161.0	1		0930	115	182.	1995.1	3212.3	1		1750	215	178.	1871.5	3210.4
1		0115	16	0.	.0	3161.0	1		0935	116	182.	1993.9	3212.3	1		1755	216	178.	1870.3	3210.4
1		0120	17	0.	.1	3161.0	1		0940	117	182.	1992.7	3212.3	1		1800	217	178.	1869.1	3210.3
1		0125	18	0.	.1	3161.0	1		0945	118	182.	1991.5	3212.3	1		1805	218	178.	1867.9	3210.3
1		0130	19	0.	.1	3161.0	1		0950	119	181.	1990.2	3212.2	1		1810	219	178.	1866.7	3210.3
1		0135	20	0.	.2	3161.0	1		0955	120	181.	1989.0	3212.2	1		1815	220	178.	1865.4	3210.3
1		0140	21	0.	.3	3161.0	1		1000	121	181.	1987.8	3212.2	1		1820	221	178.	1864.2	3210.3
1		0145	22	0.	.4	3161.0	1		1005	122	181.	1986.5	3212.2	1		1825	222	177.	1863.0	3210.2
1		0150	23	1.	.6	3161.1	1		1010	123	181.	1985.3	3212.2	1		1830	223	177.	1861.8	3210.2
1		0155	24	1.	.7	3161.1	1		1015	124	181.	1984.0	3212.2	1		1835	224	177.	1860.5	3210.2
1		0200	25	1.	.9	3161.1	1		1020	125	181.	1982.8	3212.1	1		1840	225	177.	1859.3	3210.2
1		0205	26	1.	1.0	3161.1	1		1025	126	181.	1981.6	3212.1	1		1845	226	177.	1858.1	3210.2
1		0210	27	1.	1.2	3161.1	1		1030	127	181.	1980.3	3212.1	1		1850	227	177.	1856.9	3210.1
1		0215	28	2.	1.4	3161.2	1		1035	128	181.	1979.1	3212.1	1		1855	228	177.	1855.7	3210.1
1		0220	29	2.	1.8	3161.2	1		1040	129	181.	1977.8	3212.1	1		1900	229	177.	1854.4	3210.1
1		0225	30	3.	2.3	3161.3	1		1045	130	181.	1976.6	3212.0	1		1905	230	177.	1853.2	3210.1
1		0230	31	3.	3.0	3161.3	1		1050	131	181.	1975.3	3212.0	1		1910	231	177.	1852.0	3210.1
1		0235	32	4.	3.8	3161.4	1		1055	132	181.	1974.1	3212.0	1		1915	232	177.	1850.8	3210.0
1		0240	33	5.	4.7	3161.5	1		1100	133	181.	1972.8	3212.0	1		1920	233	177.	1849.6	3210.0
1		0245	34	7.	5.9	3161.7	1		1105	134	181.	1971.6	3212.0	1		1925	234	177.	1848.3	3210.0
1		0250	35	8.	7.3	3161.8	1		1110	135	181.	1970.3	3211.9	1		1930	235	177.	1847.1	3210.0
1		0255	36	10.	8.9	3162.0	1		1115	136	181.	1969.1	3211.9	1		1935	236	177.	1845.9	3210.0
1		0300	37	11.	10.9	3162.1	1		1120	137	181.	1967.9	3211.9	1		1940	237	177.	1844.7	3209.9
1		0305	38	12.	13.2	3162.2	1		1125	138	181.	1966.6	3211.9	1		1945	238	177.	1843.5	3209.9
1		0310	39	13.	15.9	3162.4	1		1130	139	181.	1965.4	3211.9	1		1950	239	177.	1842.2	3209.9
1		0315	40	15.	19.5	3162.5	1		1135	140	181.	1964.1	3211.8	1		1955	240	177.	1841.0	3209.9
1		0320	41	17.	24.3	3162.8	1		1140	141	181.	1962.9	3211.8	1		2000	241	177.	1839.8	3209.9
1		0325	42	21.	31.1	3163.1	1		1145	142	181.	1961.6	3211.8	1		2005	242	177.	1838.6	3209.9
1		0330	43	25.	41.1	3163.6	1		1150	143	181.	1960.4	3211.8	1		2010	243	177.	1837.4	3209.8
1		0335	44	32.	55.0	3164.3	1		1155	144	181.	1959.1	3211.8	1		2015	244	177.	1836.2	3209.8
1		0340	45	40.	72.4	3165.2	1		1200	145	180.	1957.9	3211.7	1		2020	245	177.	1834.9	3209.8
1		0345	46	50.	92.5	3166.3	1		1205	146	180.	1956.7	3211.7	1		2025	246	177.	1833.7	3209.8
1		0350	47	58.	115.0	3167.3	1		1210	147	180.	1955.4	3211.7	1		2030	247	177.	1832.5	3209.8
1		0355	48	63.	140.6	3168.4	1		1215	148	180.	1954.2	3211.7	1		2035	248	176.	1831.3	3209.7
1		0400	49	69.	170.0	3169.5	1		1220	149	180.	1952.9	3211.7	1		2040	249	176.	1830.1	3209.7
1		0405	50	75.	204.2	3170.9	1		1225	150	180.	1951.7	3211.6	1		2045	250	176.	1828.9	3209.7
1		0410	51	82.	243.8	3172.5	1		1230	151	180.	1950.4	3211.6	1		2050	251	176.	1827.7	3209.7
1		0415	52	88.	289.3	3174.1	1		1235	152	180.	1949.2	3211.6	1		2055	252	176.	1826.4	3209.7
1		0420	53	95.	341.0	3175.9	1		1240	153	180.	1948.0	3211.6	1		2100	253	176.	1825.2	3209.6
1		0425	54	102.	399.5	3177.9	1		1245	154	180.	1946.7	3211.6	1		2105	254	176.	1824.0	3209.6
1		0430	55	108.	465.4	3180.0	1		1250	155	180.	1945.5	3211.5	1		2110	255	176.	1822.8	3209.6
1		0435	56	115.	538.9	3182.3	1		1255	156	180.	1944.2	3211.5	1		2115	256	176.	1821.6	3209.6
1		0440	57	121.	620.0	3184.6	1		1300	157	180.	1943.0	3211.5	1		2120	257	176.	1820.4	3209.6
1		0445	58	128.	707.8	3187.1	1		1305	158	180.	1941.8	3211.5	1		2125	258	176.	1819.2	3209.5
1		0450	59	134.	801.4	3189.4	1		1310	159	180.	1940.5	3211.5	1		2130	259	176.	1817.9	3209.5
1		0455	60	140.	899.1	3191.9	1		1315	160	180.	1939.3	3211.4	1		2135	260	176.	1816.7	3209.5
1		0500	61	145.	999.4	3194.2	1		1320	161	180.	1938.0	3211.4	1		2140	261	176.	1815.5	3209.5
1		0505	62	150.	1100.2	3196.4	1		1325	162	180.	1936.8	3211.4	1		2145	262	176.	1814.3	3209.5
1		0510	63	154.	1199.6	3198.5	1		1330	163	180.	1935.6	3211.4	1		2150	263	176.	1813.1	3209.4
1		0515	64	158.	1295.9	3200.4	1		1335	164	180.	1934.3	3211.4	1		2155	264	176.	1811.9	3209.4
1		0520	65	162.	1388.0	3202.2	1		1340	165	180.	1933.1	3211.4	1		2200	265	176.	1810.7	3209.4
1		0525	66	165.	1475.1	3203.8	1		1345	166	180.	1931.9	3211.3	1		2205	266	176.	1809.5	3209.4
1		0530	67	168.	1556.8	3205.2	1		1350	167	180.	1930.6	3211.3	1		2210	267	176.	1808.3	3209.4
1		0535	68	170.	1633.1	3206.5	1		1355	168	180.	1929.4	3211.3	1		2215	268	176.	1807.0	3209.3
1		0540	69	172.	1704.2	3207.7	1		1400	169	180.	1928.1	3211.3	1		2220	269	176.	1805.8	3209.3
1		0545	70	175.	1770.5	3208.8	1		1405	170	180.	1926.9	3211.3	1		2225	270	176.	1804.6	3209.3
1		0550	71	177.	1832.4	3209.8	1		1410	171	179.	1925.7	3211.2	1		2230	271	176.	1803.4	3209.3
1		0555	72	178.	1890.2	3210.7	1		1415	172	179.	1924.4	3211.2	1		2235	272	176.	1802.2	3209.3
1		0600	73	180.	1944.5	3211.5	1		1420	173	179.	1923.2	3211.2	1		2240	273	176.	1801.0	3209.3
1		0605	74	182.	1995.2	3212.3	1		1425	174	179.	1922.0	3211.2	1		2245	274	175.	1799.8	3209.2
1		0610	75	2377.	2035.0	3212.9	1		1430	175	179.	1920.7	3211.2	1		2250	275	175.	1798.6	3209.2
1		0615	76	4159.	2057.7	3213.2	1		1435	176	179.	1919.5	3211.1	1		2255	276	175.	1797.4	3209.2
1		0620	77	4973.	2068.1	3213.3	1		1440	177	179.	1918.3	3211.1	1		2300	277	175.	1796.2	3209.2
1		0625	78	5227.	2071.3	3213.4	1		1445	178	179.	1917.0	3211.1	1		2305	278	175.	1795.0	3209.2
1		0630	79	5160.	2070.5	3213.4	1		1450	179	179.	1915.8	3211.1	1		2310	279	175.	1793.7	3209.1
1		0635	80	4911.	2067.3	3213.3	1		1455	180	179.	1914.6	3211.1	1		2315	280	175.	1792.5	3209.1
1		0640	81	4562.	2062.8	3213.3	1		1500	181	179.	1913.3	3211.0	1		2320	281	175.	1791.3	3209.1
1		0645	82	4168.	2057.8	3213.2	1		1505	182	179.	1912.1	3211.0	1		2325	282	175.	1790.1	3209.1
1		0650	83	3759.	2052.6	3213.1	1		1510	183	179.	1910.9	3211.0	1		2330	283	175.	1788.9	3209.1
1		0655	84	3358.	2047.5	3213.1	1		1515	184	179.	1909.6	3211.0	1		2335	284	175.	1787.7	3209.0
1		0700	85	2977.	2042.6	3213.0	1		1520	185	179.	1908.4	3211.0	1		2340	285	175.	1786.5	3209.0
1		0705	86	2624.	2038.1	3212.9	1		1525	186	179.	1907.2	3210.9	1		2345	286	175.	1785.3	3209.0
1		0710	87	2302.	2034.0	3212.9	1		1530	187	179.	1905.9	3210.9	1		2350	287	175.	1784.1	3209.0
1		0715	88	2011.	2030.3	3212.8	1		1535	188	179.	1904.7	3210.9	1		2355	288	175.	1782.9	3209.0
1		0720	89	1751.	2027.0	3212.8	1		1540	189	179.	1903.5	3210.9	2		0000	289	175.	1781.7	3208.9
1		0725	90	1519.	2024.0	3212.7	1		1545	190	179.	1902.2	3210.9	2		0005	290	175.	1780.5	3208.9
1		0730	91	1313.	2021.4	3212.7	1		1550	191	179.	1901.0	3210.8	2		0010	291	175.	1779.3	3208.9
1		0735	92	1131.	2019.1	3212.7	1		1555	192	179.	1899.8	3210.8	2		0015	292	175.	1778.1	3208.9
1		0740	93	971.	2017.1	3212.6	1		1600	193	179.	1898.5	3210.8	2		0020	293	175.	1776.9	3208.9
1		0745	94	829.	2015.3	3212.6	1		1605	194	179.	1897.3	3210.8	2		0025	294	175.	1775.7	3208.9
1		0750	95	705.	2013.7	3212.6	1		1610	195	179.	1896.1	3210.8	2		0030	295	175.	1774.5	3208.8
1		0755	96	597.	2012.3	3212.6	1		1615	196	178.	1894.9	3210.7	2		0035	296	175.	1773.3	3208.8
1		0800	97	504.	2011.1	3212.6	1		1620	197	178.	1893.6	3210.7	2		0040	297	175.	1772.1	3208.8
1		0805	98	423.	2010.1	3212.5	1		1625	198	178.	1892.4	3210.7	2		0045	298	175.	1770.9	3208.8
1		0810	99	353.	2009.2	3212.5	1		1630	199	178.	1891.2	3210.7	2		0050	299	175.	1769.7	3208.8
1		0815	100	294.	2008.4	3212.5	1		1635	200	178.	1889.9	3210.7	2		0055	300	174.	1768.5	3208.7

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 5227.	6.42	991.	356.	343.	343.
		(INCHES) .168	.242	.242	.242
		(AC-FT) 492.	707.	707.	707.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
2071.	6.42	2003.	1591.	1532.	1532.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3213.39	6.42	3212.43	3203.15	3201.60	3201.60

CUMULATIVE AREA = 54.73 SQ MI

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PEAK FLOW AND STAGE (END-OF-PERIOD) SUMMARY FOR MULTIPLE PLAN-RATIO ECONOMIC COMPUTATIONS
FLOWS IN CUBIC FEET PER SECOND, AREA IN SQUARE MILES
TIME TO PEAK IN HOURS

					RATIOS APPLIED TO PRECIPITATION								
OPERATION	STATION	AREA	PLAN		RATIO 1 .99	RATIO 2 .98	RATIO 3 .95	RATIO 4 .93	RATIO 5 .92	RATIO 6 .91	RATIO 7 .90	RATIO 8 .89	RATIO 9 .88
HYDROGRAPH AT													
+	RR1	4.22	1	FLOW	2019.	1965.	1877.	1789.	1754.	1730.	1713.	1685.	1650.
				TIME	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92
HYDROGRAPH AT													
+	RR2	3.55	1	FLOW	2062.	2011.	1928.	1846.	1813.	1790.	1773.	1747.	1714.
				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
ROUTED TO													
+	RRR2	3.55	1	FLOW	2045.	1995.	1912.	1828.	1796.	1773.	1756.	1730.	1698.
				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
2 COMBINED AT													
+	CRR2	7.77	1	FLOW	3979.	3879.	3713.	3547.	3482.	3436.	3403.	3351.	3286.
				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
ROUTED TO													
+	RCRR2	7.77	1	FLOW	3749.	3654.	3496.	3339.	3276.	3233.	3202.	3152.	3090.
				TIME	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25
HYDROGRAPH AT													
+	RR5	7.13	1	FLOW	3654.	3568.	3424.	3281.	3224.	3184.	3156.	3110.	3054.

				TIME	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08
ROUTED TO													
+	R-RR5	7.13	1	FLOW	3505.	3421.	3282.	3144.	3089.	3051.	3023.	2980.	2925.
				TIME	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25
HYDROGRAPH AT													
+	RR3	14.98	1	FLOW	6348.	6193.	5934.	5678.	5575.	5504.	5453.	5371.	5270.
				TIME	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25
3 COMBINED AT													
+	CRR3	29.89	1	FLOW	13602.	13268.	12712.	12161.	11941.	11787.	11678.	11503.	11285.
				TIME	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25
ROUTED TO													
+	RCRR3	29.89	1	FLOW	12771.	12458.	11938.	11422.	11216.	11073.	10970.	10806.	10602.
				TIME	4.75	4.75	4.75	4.75	4.75	4.75	4.75	4.75	4.75
HYDROGRAPH AT													
+	RR10	8.77	1	FLOW	2746.	2674.	2555.	2436.	2389.	2356.	2332.	2295.	2248.
				TIME	4.42	4.42	4.42	4.42	4.42	4.42	4.42	4.42	4.42
2 COMBINED AT													
+	CRR10	38.66	1	FLOW	15140.	14762.	14136.	13513.	13265.	13092.	12968.	12771.	12525.
				TIME	4.67	4.67	4.67	4.67	4.67	4.67	4.67	4.67	4.67
ROUTED TO													
+	RCRR10	38.66	1	FLOW	14543.	14183.	13586.	12993.	12757.	12592.	12474.	12286.	12052.
				TIME	5.08	5.08	5.08	5.08	5.08	5.08	5.08	5.08	5.08
HYDROGRAPH AT													
+	RR12A	5.82	1	FLOW	2298.	2241.	2145.	2051.	2013.	1987.	1968.	1938.	1901.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
ROUTED TO													
+	R-RR12A	5.82	1	FLOW	2217.	2162.	2071.	1981.	1945.	1919.	1901.	1873.	1837.
				TIME	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50
HYDROGRAPH AT													
+	104A	3.39	1	FLOW	702.	679.	641.	603.	587.	577.	570.	558.	543.
				TIME	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33
3 COMBINED AT													
+	C104A	47.87	1	FLOW	16436.	16025.	15343.	14671.	14404.	14218.	14086.	13874.	13610.
				TIME	5.00	5.00	5.00	5.08	5.08	5.08	5.08	5.08	5.08
HYDROGRAPH AT													
+	RD1	.43	1	FLOW	310.	302.	288.	275.	270.	267.	264.	260.	255.
				TIME	3.58	3.58	3.58	3.67	3.67	3.67	3.67	3.67	3.67
ROUTED TO													
+	R-RD1	.43	1	FLOW	310.	301.	287.	274.	271.	267.	265.	258.	256.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT													
+	RD2	.47	1	FLOW	446.	436.	420.	404.	398.	393.	390.	385.	379.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT													
+	CRD2	.90	1	FLOW	715.	698.	669.	640.	631.	622.	617.	606.	597.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.67	3.58	3.67
ROUTED TO													
+	RCRD2	.90	1	FLOW	714.	701.	669.	641.	636.	627.	618.	612.	601.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT													
+	RD3	.33	1	FLOW	287.	280.	269.	259.	254.	251.	249.	246.	241.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT													
+	CRD3	1.23	1	FLOW	973.	955.	914.	875.	867.	855.	844.	836.	821.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT													
+	RR14A	4.60	1	FLOW	1890.	1843.	1765.	1687.	1656.	1634.	1619.	1594.	1564.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
ROUTED TO													
+	R-RR14A	4.60	1	FLOW	1884.	1837.	1759.	1682.	1653.	1631.	1617.	1591.	1561.
				TIME	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25
HYDROGRAPH AT													
+	RD4	.40	1	FLOW	278.	270.	258.	245.	240.	237.	234.	230.	225.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT													
+	CRD4	5.00	1	FLOW	1934.	1886.	1807.	1727.	1694.	1673.	1656.	1632.	1600.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.25	4.17	4.17
ROUTED TO													
+	RCRD4	5.00	1	FLOW	1929.	1881.	1802.	1723.	1692.	1671.	1655.	1630.	1599.
				TIME	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25
HYDROGRAPH AT													
+	RD5	.37	1	FLOW	262.	255.	244.	232.	228.	225.	222.	219.	214.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT													
+	CRD5	5.37	1	FLOW	1969.	1920.	1838.	1757.	1725.	1703.	1687.	1662.	1630.
				TIME	4.17	4.17	4.17	4.17	4.25	4.25	4.25	4.25	4.25
ROUTED TO													
+	RCRD5	5.37	1	FLOW	1973.	1922.	1838.	1759.	1725.	1705.	1689.	1661.	1630.
				TIME	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25
HYDROGRAPH AT													
+	RD6	.25	1	FLOW	219.	214.	205.	197.	194.	192.	190.	187.	184.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT													
+	CRD6	5.62	1	FLOW	2001.	1949.	1865.	1785.	1750.	1730.	1714.	1686.	1654.
				TIME	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25
3 COMBINED AT													
+	INRR	54.73	1	FLOW	17881.	17439.	16704.	15974.	15683.	15482.	15336.	15106.	14816.
				TIME	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
ROUTED TO													
+	RRDB	54.73	1	FLOW	9858.	9103.	8009.	6956.	6581.	6240.	6054.	5654.	5227.
				TIME	5.92	6.00	6.08	6.25	6.25	6.33	6.33	6.42	6.42
				** PEAK STAGES IN FEET **									
			1	STAGE	3214.15	3214.05	3213.89	3213.70	3213.63	3213.57	3213.54	3213.47	3213.39
				TIME	5.92	6.00	6.08	6.25	6.25	6.33	6.33	6.42	6.42
DIVERSION TO													
+	*D-RROUT	54.73	1	FLOW	9676.	8921.	7827.	6774.	6399.	6058.	5872.	5472.	5045.
				TIME	5.92	6.00	6.08	6.25	6.25	6.33	6.33	6.42	6.42
HYDROGRAPH AT													
+	*DOUTRR	54.73	1	FLOW	182.	182.	182.	182.	182.	182.	182.	182.	182.
				TIME	5.58	5.67	5.75	5.92	5.92	6.00	6.00	6.08	6.17
ROUTED TO													
+	ROUTRR	54.73	1	FLOW	182.	182.	182.	182.	182.	182.	182.	182.	182.
				TIME	5.75	5.75	5.92	6.00	6.08	6.17	6.17	6.25	6.33
HYDROGRAPH AT													
+	R3A	.19	1	FLOW	119.	116.	110.	105.	103.	101.	100.	98.	96.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT													
+	CR3A	54.92	1	FLOW	185.	185.	185.	184.	183.	183.	183.	183.	182.
				TIME	5.75	5.83	5.83	6.00	6.00	6.08	6.08	6.08	6.25
ROUTED TO													
+	RCR3A	54.92	1	FLOW	185.	185.	185.	183.	184.	183.	183.	183.	182.
				TIME	5.92	5.92	5.92	6.08	6.17	6.17	6.17	6.25	6.33

1

*** NORMAL END OF HEC-1 ***

B.3.5 10-year_FLAM4A

```
1****************************************
 *                                      *
 *   FLOOD HYDROGRAPH PACKAGE  (HEC-1)  *
 *              JUN   1998              *
 *           VERSION 4.1                *
 *                                      *
 *  RUN DATE   20MAY20  TIME  09:42:35  *
 *                                      *
 ****************************************
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```
**************************************
*                                    *
*    U.S. ARMY CORPS OF ENGINEERS    *
*    HYDROLOGIC ENGINEERING CENTER   *
*         609 SECOND STREET          *
*       DAVIS, CALIFORNIA 95616      *
*            (916) 756-1104          *
*                                    *
**************************************
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X     X  XXXXXXX   XXXXX           X
X     X  X        X     X         XX
X     X  X        X               X
XXXXXXX  XXXX     X        XXXXX  X
X     X  X        X               X
X     X  X        X     X         X
X     X  XXXXXXX   XXXXX          XXX
```

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL   LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM


```
          LINE      ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

                    *DIAGRAM
 *** FREE ***
               1    ID   RED ROCK TRAIL TO FY19-87
               2    ID   US FEDERAL HIGHWAY ADMINISTRATION
               3    ID   PN WXXY4000
               4    ID
               5    ID   HEC-1 MODEL TAKEN FROM CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT (CCRFCD)
               6    ID   2018 MASTER PLAN UPDATE
               7    ID   FLAMINGO / TROPICANA WASHES WATERSHED
               8    ID   RECOMMENDED DRAINAGE SYSTEM WITH ULTIMATE DEVELOPMENT
               9    ID   INPUT FILE = FLAM3A.DAT
              10    ID   INPUT FILE DATE = MAY 2020
              11    ID   PRECIPITATION VALUES TAKEN FROM NOAA ATLAS 2 &
              12    ID   ADJUSTED PER CCRFCD HYDRAULIC CRITERIA & DRAINAGE DESIGN MANUAL TABLE 501
              13    ID   DESIGN STORM = 10-YEAR, 6-HOUR STORM
              14    ID   STORM DISTRIBUTION = SDN4
              15    ID   STORM CENTERING = SERIES A: REGIONAL DETENTION BASIN FLOWS NOT DIVERTED OUT
              16    ID   MODELED BY JACOBS (DAVE BERGH, PE)
              17    ID
              18    ID   JR CARDS CONTAIN DARFS BASED ON THE FOLLOWING VALUES:
              19    ID
              20    ID         AREA    DARF
              21    ID         SQ.MI.
              22    ID                 SDN 3   SDN 4   SDN 5
              23    ID         0 - 0.5 0.990
              24    ID         0.5 - 1 0.975
              25    ID         1 - 2   0.950
              26    ID         2 - 3   0.925
              27    ID         3 - 4   0.915
              28    ID         4 - 5   0.908
              29    ID         5 - 6   0.903
              30    ID         6 - 7   0.895
              31    ID         7 - 8   0.885
              32    ID         8 - 9           0.875
              33    ID         9 - 10          0.865
              34    ID         10 - 11         0.857
              35    ID         11 - 12         0.850
              36    ID         12 - 16                 0.832
              37    ID         16 - 20                 0.804
              38    ID         20 - 30                 0.765
              39    ID         30 - 40                 0.725
              40    ID         40 - 50                 0.695
              41    ID         50 - 100                0.640
              42    ID         100 - 150               0.580
              43    ID         150 - 200               0.530
              44    ID
              45    IT      5       0       0     300
              46    IO      5       0       0
              47    IN      5       0       0
              48    JR    PREC   0.875   0.865   0.857    0.85
                    *
```



```
          LINE      ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

              49    KK     RR1
              50    BA   4.225
              51    PB    2.47
              52    PC       0    0.02   0.058   0.075   0.099   0.126   0.137   0.145   0.149   0.151
              53    PC   0.155   0.156   0.159   0.162   0.169   0.172   0.179   0.189   0.201   0.211
              54    PC    0.22   0.228   0.232    0.24   0.246   0.252    0.26   0.269   0.276   0.283
              55    PC   0.286   0.292   0.302   0.312   0.321   0.332   0.352   0.376   0.415   0.462
              56    PC    0.53    0.61    0.71   0.732   0.756   0.782   0.799   0.813   0.823    0.83
              57    PC   0.835   0.844   0.851   0.864   0.885   0.908   0.924   0.944   0.968   0.973
              58    PC   0.978   0.982   0.984   0.986   0.988   0.991   0.992   0.993   0.994   0.997
              59    PC   0.998   0.999       1
              60    LS       0    85.8
              61    UD   0.443
                    *
              62    KK     RR2
              63    BA   3.547
              64    PB    2.50
              65    LS       0    86.2
              66    UD   0.545
                    *
              67    KK    RRR2
              68    KM   MUSKINGUM ROUTING UNSTABLE - USED MUSKINGUM-CUNGE
              69    KM   NATURAL WASH
              70    RD    1700   0.076    0.04       0    TRAP     100       2
                    *
              71    KK    CRR2
              72    KM   COMBINE RR1 AND RRR2
              73    HC       2
                    *
              74    KK   RCRR2
              75    KM   ROUTE CRR2 TO CRR3
              76    KM   NATURAL WASH
              77    KM   TRAVEL LENGTH = 15850
              78    KM   SLOPE = 0.043
              79    KM   N = 0.04
              80    KM   HYDRAULIC RADIUS = 1.5
              81    KM   VELOCITY = 16.2
              82    RM       3   0.272    0.15
                    *
              83    KK     RR5
              84    BA   7.132
              85    PB    2.29
              86    LS       0    87.9
              87    UD   0.615
                    *
```



```
          LINE      ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

              88    KK   R-RR5
              89    KM   ROUTE RR5 THROUGH RR3 TO CRR3
              90    KM   NATURAL WASH
              91    KM   TRAVEL LENGTH = 10700
              92    KM   SLOPE = 0.037
              93    KM   N = 0.04
              94    KM   HYDRAULIC RADIUS = 1.5
              95    KM   VELOCITY = 15
              96    RM       2   0.198    0.15
                    *
              97    KK     RR3
              98    BA  14.983
              99    PB    2.29
             100    LS       0      87
             101    UD   0.761
                    *
             102    KK    CRR3
             103    KM   COMBINE RCRR2, R-RR5, AND RR3
             104    HC       3
                    *
             105    KK   RCRR3
             106    KM   ROUTE CRR3 THROUGH RR10 TO CRR10
             107    KM   NATURAL WASH
             108    KM   TRAVEL LENGTH = 20700
             109    KM   SLOPE = 0.025
             110    KM   N = 0.04
             111    KM   HYDRAULIC RADIUS = 1.5
             112    KM   VELOCITY = 12.3
             113    RM       6   0.466    0.15
                    *
             114    KK    RR10
             115    BA   8.775
             116    PB    2.10
             117    LS       0    86.1
             118    UD   0.882
```

```
                 *

  119            KK   CRR10
  120            KM   COMBINE RCRR3 AND RR10
  121            HC       2
                 *

  122            KK  RCRR10
  123            KM   ROUTE CRR10 THROUGH 104A TO C104A (RED ROCK DETENTION BASIN)
  124            KM   NATURAL WASH
  125            KM   TRAVEL LENGTH = 14500
  126            KM   SLOPE = 0.021
  127            KM   N = 0.04
  128            KM   HYDRAULIC RADIUS = 1.5
  129            KM   VELOCITY = 11.3
1                                    HEC-1 INPUT                                    PAGE  4

 LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  130            RM       4   0.356    0.15
                 *

  131            KK   RR12A
  132            BA   5.821
  133            PB    2.11
  134            LS       0    87.6
  135            UD   0.728
                 *

  136            KK R-RR12A
  137            KM   ROUTE RR12A THROUGH 104A TO C104A (RED ROCK DETENTION BASIN)
  138            KM   NATURAL WASH
  139            KM   TRAVEL LENGTH = 12000
  140            KM   SLOPE = 0.026
  141            KM   N = 0.04
  142            KM   HYDRAULIC RADIUS = 1.5
  143            KM   VELOCITY = 12.6
  144            RM       3   0.265    0.15
                 *

  145            KK    104A
  146            BA   3.391
  147            PB    1.95
  148            LS       0    81.3
  149            UD   0.801
                 *

  150            KK   C104A
  151            KM   COMBINE RCRR10, R-RR12A, AND 104A
  152            HC       3
                 *

  153            KK     RD1
  154            BA   0.431
  155            PB    2.10
  156            LS       0    86.6
  157            UD   0.195
                 *

  158            KK   R-RD1
  159            KM   ROUTE RD1 THROUGH RD2 TO CRD2
  160            KM   FUTURE CONCRETE CHANNEL
  161            RD    5100   0.061   0.015       0    TRAP      12       2
                 *

  162            KK     RD2
  163            BA   0.473
  164            PB    2.00
  165            LS       0    91.2
  166            UD   0.167
                 *
1                                    HEC-1 INPUT                                    PAGE  5

 LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  167            KK    CRD2
  168            KM   COMBINE R-RD1 AND RD2
  169            HC       2
                 *

  170            KK   RCRD2
  171            KM   ROUTE CRD2 TO CRD3 (RED ROCK DETENTION BASIN)
  172            KM   FUTURE CONCRETE CHANNEL
  173            RD    4600    0.05   0.015       0    TRAP      12       2
                 *

  174            KK     RD3
  175            BA    0.33
  176            PB    1.96
  177            LS       0    90.3
  178            UD   0.168
                 *

  179            KK    CRD3
  180            KM   COMBINE RCRD2 AND RD3
  181            HC       2
                 *

  182            KK   RR14A
  183            BA   4.602
  184            PB    2.18
  185            LS       0    87.3
  186            UD   0.725
                 *

  187            KK R-RR14A
  188            KM   ROUTE RR14A THROUGH RD4 TO CRD4
  189            KM   FUTURE CONCRETE CHANNEL
  190            RD    5500   0.071   0.015       0    TRAP      12       2
                 *

  191            KK     RD4
  192            BA   0.402
  193            PB    2.10
  194            LS       0    85.1
  195            UD   0.177
                 *

  196            KK    CRD4
  197            KM   COMBINE R-RR14A AND RD4
  198            HC       2
                 *

  199            KK   RCRD4
  200            KM   ROUTE CRD4 THROUGH RD5 TO CRD5
  201            KM   FUTURE CONCRETE CHANNEL
  202            RD    4550   0.067   0.015       0    TRAP      20       2
                 *
1                                    HEC-1 INPUT                                    PAGE  6

 LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  203            KK     RD5
  204            BA    0.37
  205            PB    2.00
  206            LS       0    86.2
  207            UD   0.163
                 *

  208            KK    CRD5
  209            KM   COMBINE RCRD4 AND RD5
  210            HC       2
                 *

  211            KK   RCRD5
  212            KM   ROUTE CRD5 THROUGH RD6 TO CRD6 (RED ROCK DETENTION BASIN)
  213            KM   FUTURE CONCRETE CHANNEL
  214            RD    5600   0.047   0.015       0    TRAP      20       2
                 *

  215            KK     RD6
  216            BA    0.25
  217            PB    1.97
  218            LS       0      90
  219            UD    0.16
                 *

  220            KK    CRD6
  221            KM   COMBINE RCRD5 AND RD6
  222            HC       2
                 *

  223            KK    INRR
  224            KM   COMBINE C104A, CRD3, AND CRD6 - TOTAL INFLOW TO RED ROCK DETENTION BASIN
  225            KO       1
  226            HC       3
                 * ============================================================

  227            KK    RRDB
  228            KM   RED ROCK DETENTION BASIN
  229            KM   TAKEN FROM THE CORP MODELS FOR RED ROCK DETENTION BASIN
  230            KM   100YR COMPUTED PROBABILITY DETENTION DESIGN
  231            KM   FACILITY ID-MILE = RRWA 0716
  232            KM   STORAGE VOLUME = 2007 ACRE-FEET
  233            KM   OUTLET = 27"H x 27"W RCB ORIFICE
  234            KM   100-YR DISCHARGE = 182 CFS
  235            KM   SPILLWAY LENGTH = 600 FT
  236            KM   AUXILLARY OGEE SPILLWAY LENGTH = 323 FT
  237            KM   SPILLWAY CREST ELEVATION = 3212.5 FT NGVD
  238            KM   PMF DISCHARGE = 110000 CFS
  239            KM   TOP OF DAM ELEVATION = 3225 FT NGVD
  240            KO       1
  241            RS       1    STOR      -1
  242            SV       0       9     107     231     372     529     705     903    1125    1376
  243            SV    1659    1974    2007    2115    2331    2690    2933
  244            SQ       0      10      57      80      99     114     128     140     151     162
```

```
  LINE          ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

  245           SQ     171     181     182    8654   33270  110918  163477
  246           SE    3161    3162    3167    3172    3177    3182    3187    3192    3197    3202
  247           SE    3207    3212  3212.5    3214    3217    3222    3225
                * =======================================================

  248           KK *DOUTRR
  249           KM   DIVERT SPILLWAY OVERFLOW IN EXCESS OF CORPS DESIGN OUTFLOW
  250           DT*D-RROUT
  251           DI       0     182    3000    5000   10000
  252           DQ       0       0    2818    4818    9818
                *

  253           KK  ROUTRR
  254           KM   ROUTE OUTFLOW FROM RED ROCK DETENTION BASIN THROUGH R3A TO CR3A
  255           KM   FACILITY = RED ROCK CHANNEL
  256           KM   FACILITY # = RRWA 0714, 0709, 0701
  257           KM   LINING = RCP
  258           KM   LINING = RIPRAP CHNL 10'W X 6'D; 2:1SS
  259           RD    1500   0.008    0.04       0    TRAP      10       2
                *

  260           KK     R3A
  261           BA   0.186
  262           PB    1.93
  263           LS       0    84.3
  264           UD    0.11
                *

  265           KK    CR3A
  266           KM   COMBINE OUTFLOW FROM RED ROCK DETENTION BASIN WITH R3A
  267           HC       2
                *

  268           KK   RCR3A
  269           KM   ROUTE CR3A THROUGH UFR1 TO CUFR1
  270           KM   FACILITY = RED ROCK CHANNEL
  271           KM   FACILITY # = RRWA 0695, 0692, 0608, 0607
  272           KM   LINING = RCP
  273           RD    5045  0.0055   0.013       0    CIRC       8       0
                *

  274           ZZ
```

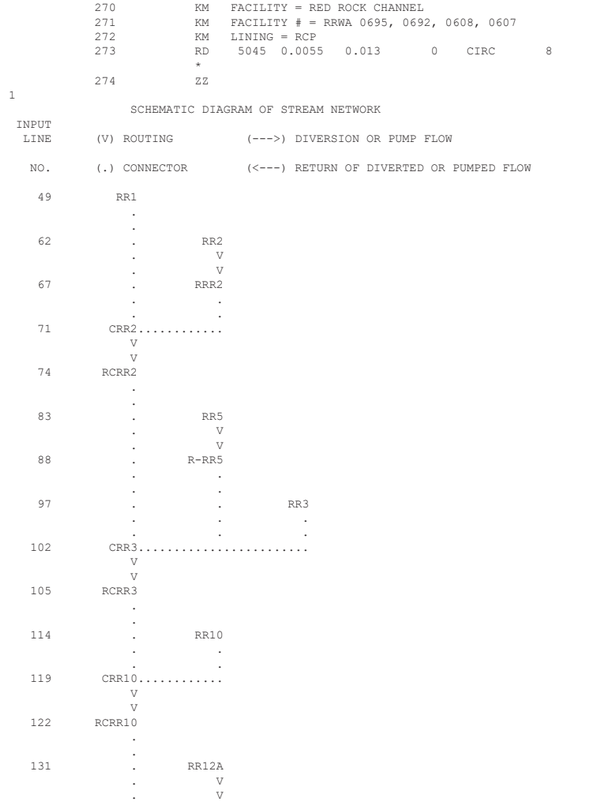
1

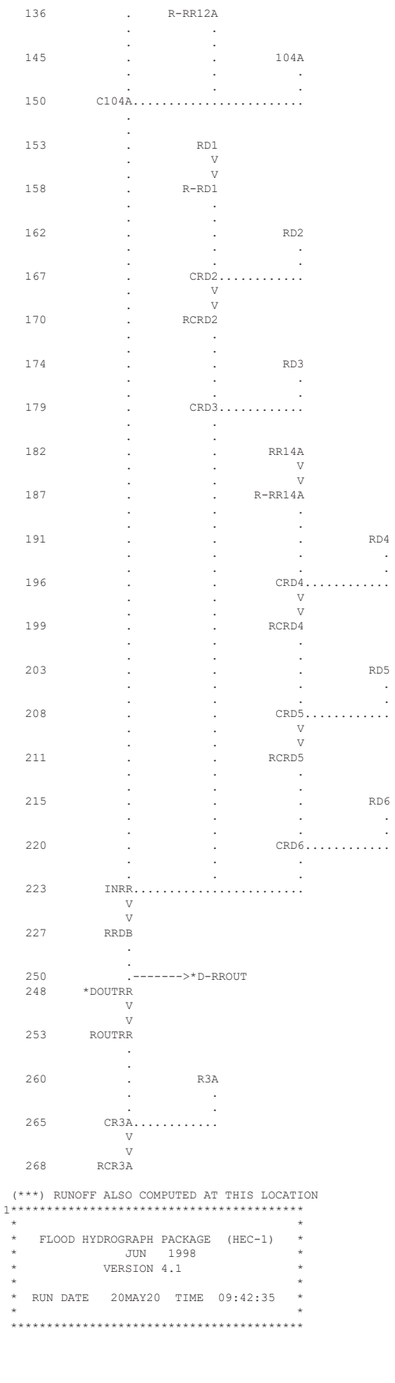
SCHEMATIC DIAGRAM OF STREAM NETWORK

INPUT

LINE (V) ROUTING (---->) DIVERSION OR PUMP FLOW

NO. (.) CONNECTOR (<---) RETURN OF DIVERTED OR PUMPED FLOW





(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

```
1*****************************************
 *                                       *
 *   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
 *             JUN   1998                *
 *          VERSION 4.1                  *
 *                                       *
 *  RUN DATE   20MAY20  TIME  09:42:35   *
 *                                       *
 *****************************************
```

```
*************************************
*                                   *
*    U.S. ARMY CORPS OF ENGINEERS   *
*    HYDROLOGIC ENGINEERING CENTER  *
*         609 SECOND STREET         *
*       DAVIS, CALIFORNIA 95616     *
*           (916) 756-1104          *
*                                   *
*************************************
```

RED ROCK TRAIL TO FY19-87
US FEDERAL HIGHWAY ADMINISTRATION
PN WXXY4000

HEC-1 MODEL TAKEN FROM CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT (CCRFCD)
2018 MASTER PLAN UPDATE
FLAMINGO / TROPICANA WASHES WATERSHED
RECOMMENDED DRAINAGE SYSTEM WITH ULTIMATE DEVELOPMENT
INPUT FILE = FLAM3A.DAT
INPUT FILE DATE = MAY 2020
PRECIPITATION VALUES TAKEN FROM NOAA ATLAS 2 &
ADJUSTED PER CCRFCD HYDRAULIC CRITERIA & DRAINAGE DESIGN MANUAL TABLE 501
DESIGN STORM = 10-YEAR, 6-HOUR STORM
STORM DISTRIBUTION = SDN4
STORM CENTERING = SERIES A: REGIONAL DETENTION BASIN FLOWS NOT DIVERTED OUT
MODELED BY JACOBS (DAVE BERGH, PE)

JR CARDS CONTAIN DARFS BASED ON THE FOLLOWING VALUES:

AREA SQ.MI.	DARF SDN 3	SDN 4	SDN 5
0 - 0.5	0.990		
0.5 - 1	0.975		
1 - 2	0.950		
2 - 3	0.925		
3 - 4	0.915		
4 - 5	0.908		
5 - 6	0.903		
6 - 7	0.895		
7 - 8	0.885		
8 - 9		0.875	
9 - 10		0.865	
10 - 11		0.857	
11 - 12		0.850	
12 - 16			0.832
16 - 20			0.804
20 - 30			0.765
30 - 40			0.725
40 - 50			0.695
50 - 100			0.640
100 - 150			0.580
150 - 200			0.530

```
 46 IO          OUTPUT CONTROL VARIABLES
                     IPRNT          5  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL          0.  HYDROGRAPH PLOT SCALE

    IT          HYDROGRAPH TIME DATA
                      NMIN          5  MINUTES IN COMPUTATION INTERVAL
                     IDATE      1    0  STARTING DATE
                     ITIME       0000  STARTING TIME
                        NQ        300  NUMBER OF HYDROGRAPH ORDINATES
                    NDDATE      2    0  ENDING DATE
                    NDTIME       0055  ENDING TIME
                     ICENT         19  CENTURY MARK

                  COMPUTATION INTERVAL     .08 HOURS
                      TOTAL TIME BASE   24.92 HOURS

            ENGLISH UNITS
                 DRAINAGE AREA         SQUARE MILES
                 PRECIPITATION DEPTH   INCHES
                 LENGTH, ELEVATION     FEET
                 FLOW                  CUBIC FEET PER SECOND
                 STORAGE VOLUME        ACRE-FEET
                 SURFACE AREA          ACRES
                 TEMPERATURE           DEGREES FAHRENHEIT

    JP          MULTI-PLAN OPTION
                     NPLAN          1  NUMBER OF PLANS

    JR          MULTI-RATIO OPTION
                    RATIOS OF PRECIPITATION
                    .88      .87      .86      .85


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


             **************
             *            *
223 KK       *      INRR  *
             *            *
             **************

225 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          1  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
```

```
                     QSCAL          0.  HYDROGRAPH PLOT SCALE

226 HC          HYDROGRAPH COMBINATION
                     ICOMP          3  NUMBER OF HYDROGRAPHS TO COMBINE

                                       ***
```

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .88

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.		1	0615	76	6888.		1	1230	151	0.		1	1845	226	0.
1	0005	2	0.		1	0620	77	6408.		1	1235	152	0.		1	1850	227	0.
1	0010	3	0.		1	0625	78	5900.		1	1240	153	0.		1	1855	228	0.
1	0015	4	0.		1	0630	79	5375.		1	1245	154	0.		1	1900	229	0.
1	0020	5	0.		1	0635	80	4846.		1	1250	155	0.		1	1905	230	0.
1	0025	6	0.		1	0640	81	4331.		1	1255	156	0.		1	1910	231	0.
1	0030	7	0.		1	0645	82	3840.		1	1300	157	0.		1	1915	232	0.
1	0035	8	1.		1	0650	83	3385.		1	1305	158	0.		1	1920	233	0.
1	0040	9	3.		1	0655	84	2971.		1	1310	159	0.		1	1925	234	0.
1	0045	10	5.		1	0700	85	2600.		1	1315	160	0.		1	1930	235	0.
1	0050	11	5.		1	0705	86	2268.		1	1320	161	0.		1	1935	236	0.
1	0055	12	5.		1	0710	87	1973.		1	1325	162	0.		1	1940	237	0.
1	0100	13	4.		1	0715	88	1712.		1	1330	163	0.		1	1945	238	0.
1	0105	14	4.		1	0720	89	1480.		1	1335	164	0.		1	1950	239	0.
1	0110	15	5.		1	0725	90	1276.		1	1340	165	0.		1	1955	240	0.
1	0115	16	6.		1	0730	91	1094.		1	1345	166	0.		1	2000	241	0.
1	0120	17	8.		1	0735	92	934.		1	1350	167	0.		1	2005	242	0.
1	0125	18	11.		1	0740	93	794.		1	1355	168	0.		1	2010	243	0.
1	0130	19	16.		1	0745	94	671.		1	1400	169	0.		1	2015	244	0.
1	0135	20	23.		1	0750	95	564.		1	1405	170	0.		1	2020	245	0.
1	0140	21	31.		1	0755	96	472.		1	1410	171	0.		1	2025	246	0.
1	0145	22	40.		1	0800	97	393.		1	1415	172	0.		1	2030	247	0.
1	0150	23	49.		1	0805	98	327.		1	1420	173	0.		1	2035	248	0.
1	0155	24	58.		1	0810	99	271.		1	1425	174	0.		1	2040	249	0.
1	0200	25	71.		1	0815	100	224.		1	1430	175	0.		1	2045	250	0.
1	0205	26	89.		1	0820	101	185.		1	1435	176	0.		1	2050	251	0.
1	0210	27	112.		1	0825	102	153.		1	1440	177	0.		1	2055	252	0.
1	0215	28	141.		1	0830	103	126.		1	1445	178	0.		1	2100	253	0.
1	0220	29	177.		1	0835	104	103.		1	1450	179	0.		1	2105	254	0.
1	0225	30	219.		1	0840	105	85.		1	1455	180	0.		1	2110	255	0.
1	0230	31	263.		1	0845	106	70.		1	1500	181	0.		1	2115	256	0.
1	0235	32	311.		1	0850	107	57.		1	1505	182	0.		1	2120	257	0.
1	0240	33	365.		1	0855	108	47.		1	1510	183	0.		1	2125	258	0.
1	0245	34	430.		1	0900	109	38.		1	1515	184	0.		1	2130	259	0.
1	0250	35	504.		1	0905	110	31.		1	1520	185	0.		1	2135	260	0.
1	0255	36	583.		1	0910	111	25.		1	1525	186	0.		1	2140	261	0.
1	0300	37	668.		1	0915	112	20.		1	1530	187	0.		1	2145	262	0.
1	0305	38	768.		1	0920	113	16.		1	1535	188	0.		1	2150	263	0.
1	0310	39	895.		1	0925	114	12.		1	1540	189	0.		1	2155	264	0.
1	0315	40	1068.		1	0930	115	10.		1	1545	190	0.		1	2200	265	0.
1	0320	41	1309.		1	0935	116	7.		1	1550	191	0.		1	2205	266	0.
1	0325	42	1647.		1	0940	117	6.		1	1555	192	0.		1	2210	267	0.
1	0330	43	2114.		1	0945	118	4.		1	1600	193	0.		1	2215	268	0.
1	0335	44	2639.		1	0950	119	3.		1	1605	194	0.		1	2220	269	0.
1	0340	45	3023.		1	0955	120	3.		1	1610	195	0.		1	2225	270	0.
1	0345	46	3310.		1	1000	121	2.		1	1615	196	0.		1	2230	271	0.
1	0350	47	3684.		1	1005	122	1.		1	1620	197	0.		1	2235	272	0.
1	0355	48	4196.		1	1010	123	1.		1	1625	198	0.		1	2240	273	0.
1	0400	49	4804.		1	1015	124	1.		1	1630	199	0.		1	2245	274	0.
1	0405	50	5484.		1	1020	125	1.		1	1635	200	0.		1	2250	275	0.
1	0410	51	6220.		1	1025	126	0.		1	1640	201	0.		1	2255	276	0.
1	0415	52	7018.		1	1030	127	0.		1	1645	202	0.		1	2300	277	0.
1	0420	53	7887.		1	1035	128	0.		1	1650	203	0.		1	2305	278	0.
1	0425	54	8812.		1	1040	129	0.		1	1655	204	0.		1	2310	279	0.
1	0430	55	9780.		1	1045	130	0.		1	1700	205	0.		1	2315	280	0.
1	0435	56	10763.		1	1050	131	0.		1	1705	206	0.		1	2320	281	0.
1	0440	57	11693.		1	1055	132	0.		1	1710	207	0.		1	2325	282	0.
1	0445	58	12481.		1	1100	133	0.		1	1715	208	0.		1	2330	283	0.
1	0450	59	13091.		1	1105	134	0.		1	1720	209	0.		1	2335	284	0.
1	0455	60	13492.		1	1110	135	0.		1	1725	210	0.		1	2340	285	0.
1	0500	61	13630.		1	1115	136	0.		1	1730	211	0.		1	2345	286	0.
1	0505	62	13507.		1	1120	137	0.		1	1735	212	0.		1	2350	287	0.
1	0510	63	13188.		1	1125	138	0.		1	1740	213	0.		1	2355	288	0.
1	0515	64	12727.		1	1130	139	0.		1	1745	214	0.		2	0000	289	0.
1	0520	65	12169.		1	1135	140	0.		1	1750	215	0.		2	0005	290	0.
1	0525	66	11562.		1	1140	141	0.		1	1755	216	0.		2	0010	291	0.
1	0530	67	10950.		1	1145	142	0.		1	1800	217	0.		2	0015	292	0.
1	0535	68	10360.		1	1150	143	0.		1	1805	218	0.		2	0020	293	0.
1	0540	69	9816.		1	1155	144	0.		1	1810	219	0.		2	0025	294	0.
1	0545	70	9329.		1	1200	145	0.		1	1815	220	0.		2	0030	295	0.
1	0550	71	8899.		1	1205	146	0.		1	1820	221	0.		2	0035	296	0.
1	0555	72	8507.		1	1210	147	0.		1	1825	222	0.		2	0040	297	0.
1	0600	73	8129.		1	1215	148	0.		1	1830	223	0.		2	0045	298	0.
1	0605	74	7743.		1	1220	149	0.		1	1835	224	0.		2	0050	299	0.
1	0610	75	7333.		1	1225	150	0.		1	1840	225	0.		2	0055	300	0.

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 13630.	5.00	4980.	1251.	1205.	1205.
		(INCHES) .846	.850	.850	.850
		(AC-FT) 2469.	2481.	2481.	2481.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .87

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	6774.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	6302.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	5803.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	5286.	1		1245	154	0.	1		1900	229	0.
1		0020	5	0.	1		0635	80	4767.	1		1250	155	0.	1		1905	230	0.
1		0025	6	0.	1		0640	81	4260.	1		1255	156	0.	1		1910	231	0.
1		0030	7	0.	1		0645	82	3778.	1		1300	157	0.	1		1915	232	0.
1		0035	8	1.	1		0650	83	3331.	1		1305	158	0.	1		1920	233	0.
1		0040	9	3.	1		0655	84	2924.	1		1310	159	0.	1		1925	234	0.
1		0045	10	4.	1		0700	85	2558.	1		1315	160	0.	1		1930	235	0.
1		0050	11	5.	1		0705	86	2231.	1		1320	161	0.	1		1935	236	0.
1		0055	12	5.	1		0710	87	1941.	1		1325	162	0.	1		1940	237	0.
1		0100	13	4.	1		0715	88	1684.	1		1330	163	0.	1		1945	238	0.
1		0105	14	4.	1		0720	89	1457.	1		1335	164	0.	1		1950	239	0.
1		0110	15	4.	1		0725	90	1255.	1		1340	165	0.	1		1955	240	0.
1		0115	16	6.	1		0730	91	1077.	1		1345	166	0.	1		2000	241	0.
1		0120	17	7.	1		0735	92	920.	1		1350	167	0.	1		2005	242	0.
1		0125	18	10.	1		0740	93	781.	1		1355	168	0.	1		2010	243	0.
1		0130	19	15.	1		0745	94	660.	1		1400	169	0.	1		2015	244	0.
1		0135	20	22.	1		0750	95	555.	1		1405	170	0.	1		2020	245	0.
1		0140	21	29.	1		0755	96	464.	1		1410	171	0.	1		2025	246	0.
1		0145	22	37.	1		0800	97	387.	1		1415	172	0.	1		2030	247	0.
1		0150	23	45.	1		0805	98	322.	1		1420	173	0.	1		2035	248	0.
1		0155	24	53.	1		0810	99	267.	1		1425	174	0.	1		2040	249	0.
1		0200	25	66.	1		0815	100	220.	1		1430	175	0.	1		2045	250	0.
1		0205	26	82.	1		0820	101	182.	1		1435	176	0.	1		2050	251	0.
1		0210	27	103.	1		0825	102	150.	1		1440	177	0.	1		2055	252	0.
1		0215	28	131.	1		0830	103	124.	1		1445	178	0.	1		2100	253	0.
1		0220	29	165.	1		0835	104	102.	1		1450	179	0.	1		2105	254	0.
1		0225	30	204.	1		0840	105	84.	1		1455	180	0.	1		2110	255	0.
1		0230	31	246.	1		0845	106	69.	1		1500	181	0.	1		2115	256	0.
1		0235	32	292.	1		0850	107	56.	1		1505	182	0.	1		2120	257	0.
1		0240	33	344.	1		0855	108	46.	1		1510	183	0.	1		2125	258	0.
1		0245	34	406.	1		0900	109	38.	1		1515	184	0.	1		2130	259	0.
1		0250	35	478.	1		0905	110	31.	1		1520	185	0.	1		2135	260	0.
1		0255	36	554.	1		0910	111	25.	1		1525	186	0.	1		2140	261	0.
1		0300	37	636.	1		0915	112	20.	1		1530	187	0.	1		2145	262	0.
1		0305	38	733.	1		0920	113	16.	1		1535	188	0.	1		2150	263	0.
1		0310	39	857.	1		0925	114	12.	1		1540	189	0.	1		2155	264	0.
1		0315	40	1025.	1		0930	115	9.	1		1545	190	0.	1		2200	265	0.
1		0320	41	1261.	1		0935	116	7.	1		1550	191	0.	1		2205	266	0.
1		0325	42	1592.	1		0940	117	6.	1		1555	192	0.	1		2210	267	0.
1		0330	43	2052.	1		0945	118	4.	1		1600	193	0.	1		2215	268	0.
1		0335	44	2564.	1		0950	119	3.	1		1605	194	0.	1		2220	269	0.
1		0340	45	2946.	1		0955	120	3.	1		1610	195	0.	1		2225	270	0.
1		0345	46	3230.	1		1000	121	2.	1		1615	196	0.	1		2230	271	0.
1		0350	47	3594.	1		1005	122	1.	1		1620	197	0.	1		2235	272	0.
1		0355	48	4091.	1		1010	123	1.	1		1625	198	0.	1		2240	273	0.
1		0400	49	4688.	1		1015	124	1.	1		1630	199	0.	1		2245	274	0.
1		0405	50	5355.	1		1020	125	1.	1		1635	200	0.	1		2250	275	0.
1		0410	51	6078.	1		1025	126	0.	1		1640	201	0.	1		2255	276	0.
1		0415	52	6862.	1		1030	127	0.	1		1645	202	0.	1		2300	277	0.
1		0420	53	7713.	1		1035	128	0.	1		1650	203	0.	1		2305	278	0.
1		0425	54	8619.	1		1040	129	0.	1		1655	204	0.	1		2310	279	0.
1		0430	55	9570.	1		1045	130	0.	1		1700	205	0.	1		2315	280	0.
1		0435	56	10539.	1		1050	131	0.	1		1705	206	0.	1		2320	281	0.
1		0440	57	11454.	1		1055	132	0.	1		1710	207	0.	1		2325	282	0.
1		0445	58	12230.	1		1100	133	0.	1		1715	208	0.	1		2330	283	0.
1		0450	59	12832.	1		1105	134	0.	1		1720	209	0.	1		2335	284	0.
1		0455	60	13228.	1		1110	135	0.	1		1725	210	0.	1		2340	285	0.
1		0500	61	13364.	1		1115	136	0.	1		1730	211	0.	1		2345	286	0.
1		0505	62	13249.	1		1120	137	0.	1		1735	212	0.	1		2350	287	0.
1		0510	63	12940.	1		1125	138	0.	1		1740	213	0.	1		2355	288	0.
1		0515	64	12490.	1		1130	139	0.	1		1745	214	0.	2		0000	289	0.
1		0520	65	11944.	1		1135	140	0.	1		1750	215	0.	2		0005	290	0.
1		0525	66	11351.	1		1140	141	0.	1		1755	216	0.	2		0010	291	0.
1		0530	67	10752.	1		1145	142	0.	1		1800	217	0.	2		0015	292	0.
1		0535	68	10175.	1		1150	143	0.	1		1805	218	0.	2		0020	293	0.
1		0540	69	9643.	1		1155	144	0.	1		1810	219	0.	2		0025	294	0.
1		0545	70	9166.	1		1200	145	0.	1		1815	220	0.	2		0030	295	0.
1		0550	71	8745.	1		1205	146	0.	1		1820	221	0.	2		0035	296	0.
1		0555	72	8361.	1		1210	147	0.	1		1825	222	0.	2		0040	297	0.
1		0600	73	7991.	1		1215	148	0.	1		1830	223	0.	2		0045	298	0.
1		0605	74	7613.	1		1220	149	0.	1		1835	224	0.	2		0050	299	0.
1		0610	75	7210.	1		1225	150	0.	1		1840	225	0.	2		0055	300	0.

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 13364.	5.00	4881.	1226.	1181.	1181.
		(INCHES) .829	.833	.833	.833
		(AC-FT) 2420.	2432.	2432.	2432.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .86

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	6682.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	6218.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	5726.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	5216.	1		1245	154	0.	1		1900	229	0.
1		0020	5	0.	1		0635	80	4704.	1		1250	155	0.	1		1905	230	0.
1		0025	6	0.	1		0640	81	4204.	1		1255	156	0.	1		1910	231	0.
1		0030	7	0.	1		0645	82	3728.	1		1300	157	0.	1		1915	232	0.
1		0035	8	1.	1		0650	83	3287.	1		1305	158	0.	1		1920	233	0.
1		0040	9	3.	1		0655	84	2885.	1		1310	159	0.	1		1925	234	0.
1		0045	10	4.	1		0700	85	2524.	1		1315	160	0.	1		1930	235	0.
1		0050	11	4.	1		0705	86	2202.	1		1320	161	0.	1		1935	236	0.
1		0055	12	4.	1		0710	87	1916.	1		1325	162	0.	1		1940	237	0.
1		0100	13	4.	1		0715	88	1663.	1		1330	163	0.	1		1945	238	0.
1		0105	14	4.	1		0720	89	1438.	1		1335	164	0.	1		1950	239	0.
1		0110	15	4.	1		0725	90	1239.	1		1340	165	0.	1		1955	240	0.
1		0115	16	6.	1		0730	91	1063.	1		1345	166	0.	1		2000	241	0.
1		0120	17	7.	1		0735	92	908.	1		1350	167	0.	1		2005	242	0.
1		0125	18	10.	1		0740	93	771.	1		1355	168	0.	1		2010	243	0.
1		0130	19	14.	1		0745	94	652.	1		1400	169	0.	1		2015	244	0.
1		0135	20	21.	1		0750	95	548.	1		1405	170	0.	1		2020	245	0.
1		0140	21	28.	1		0755	96	458.	1		1410	171	0.	1		2025	246	0.
1		0145	22	35.	1		0800	97	382.	1		1415	172	0.	1		2030	247	0.
1		0150	23	42.	1		0805	98	318.	1		1420	173	0.	1		2035	248	0.
1		0155	24	50.	1		0810	99	263.	1		1425	174	0.	1		2040	249	0.
1		0200	25	61.	1		0815	100	218.	1		1430	175	0.	1		2045	250	0.
1		0205	26	77.	1		0820	101	180.	1		1435	176	0.	1		2050	251	0.
1		0210	27	97.	1		0825	102	148.	1		1440	177	0.	1		2055	252	0.
1		0215	28	123.	1		0830	103	122.	1		1445	178	0.	1		2100	253	0.
1		0220	29	155.	1		0835	104	101.	1		1450	179	0.	1		2105	254	0.
1		0225	30	193.	1		0840	105	83.	1		1455	180	0.	1		2110	255	0.
1		0230	31	233.	1		0845	106	68.	1		1500	181	0.	1		2115	256	0.
1		0235	32	277.	1		0850	107	56.	1		1505	182	0.	1		2120	257	0.
1		0240	33	327.	1		0855	108	46.	1		1510	183	0.	1		2125	258	0.
1		0245	34	388.	1		0900	109	37.	1		1515	184	0.	1		2130	259	0.
1		0250	35	457.	1		0905	110	30.	1		1520	185	0.	1		2135	260	0.
1		0255	36	531.	1		0910	111	24.	1		1525	186	0.	1		2140	261	0.
1		0300	37	611.	1		0915	112	20.	1		1530	187	0.	1		2145	262	0.
1		0305	38	706.	1		0920	113	15.	1		1535	188	0.	1		2150	263	0.
1		0310	39	827.	1		0925	114	12.	1		1540	189	0.	1		2155	264	0.
1		0315	40	992.	1		0930	115	9.	1		1545	190	0.	1		2200	265	0.
1		0320	41	1222.	1		0935	116	7.	1		1550	191	0.	1		2205	266	0.
1		0325	42	1549.	1		0940	117	6.	1		1555	192	0.	1		2210	267	0.
1		0330	43	1997.	1		0945	118	4.	1		1600	193	0.	1		2215	268	0.
1		0335	44	2504.	1		0950	119	3.	1		1605	194	0.	1		2220	269	0.
1		0340	45	2877.	1		0955	120	2.	1		1610	195	0.	1		2225	270	0.
1		0345	46	3154.	1		1000	121	2.	1		1615	196	0.	1		2230	271	0.
1		0350	47	3514.	1		1005	122	1.	1		1620	197	0.	1		2235	272	0.
1		0355	48	4006.	1		1010	123	1.	1		1625	198	0.	1		2240	273	0.
1		0400	49	4594.	1		1015	124	1.	1		1630	199	0.	1		2245	274	0.
1		0405	50	5249.	1		1020	125	1.	1		1635	200	0.	1		2250	275	0.
1		0410	51	5961.	1		1025	126	0.	1		1640	201	0.	1		2255	276	0.
1		0415	52	6734.	1		1030	127	0.	1		1645	202	0.	1		2300	277	0.
1		0420	53	7574.	1		1035	128	0.	1		1650	203	0.	1		2305	278	0.
1		0425	54	8468.	1		1040	129	0.	1		1655	204	0.	1		2310	279	0.
1		0430	55	9405.	1		1045	130	0.	1		1700	205	0.	1		2315	280	0.
1		0435	56	10359.	1		1050	131	0.	1		1705	206	0.	1		2320	281	0.
1		0440	57	11262.	1		1055	132	0.	1		1710	207	0.	1		2325	282	0.
1		0445	58	12028.	1		1100	133	0.	1		1715	208	0.	1		2330	283	0.
1		0450	59	12623.	1		1105	134	0.	1		1720	209	0.	1		2335	284	0.
1		0455	60	13017.	1		1110	135	0.	1		1725	210	0.	1		2340	285	0.
1		0500	61	13155.	1		1115	136	0.	1		1730	211	0.	1		2345	286	0.
1		0505	62	13042.	1		1120	137	0.	1		1735	212	0.	1		2350	287	0.
1		0510	63	12740.	1		1125	138	0.	1		1740	213	0.	1		2355	288	0.
1		0515	64	12299.	1		1130	139	0.	1		1745	214	0.	2		0000	289	0.
1		0520	65	11764.	1		1135	140	0.	1		1750	215	0.	2		0005	290	0.
1		0525	66	11182.	1		1140	141	0.	1		1755	216	0.	2		0010	291	0.
1		0530	67	10593.	1		1145	142	0.	1		1800	217	0.	2		0015	292	0.

1	0535	68	10027.	1	1150	143	0.	1	1805	218	0.	2	0020	293	0.
1	0540	69	9504.	1	1155	144	0.	1	1810	219	0.	2	0025	294	0.
1	0545	70	9036.	1	1200	145	0.	1	1815	220	0.	2	0030	295	0.
1	0550	71	8622.	1	1205	146	0.	1	1820	221	0.	2	0035	296	0.
1	0555	72	8245.	1	1210	147	0.	1	1825	222	0.	2	0040	297	0.
1	0600	73	7881.	1	1215	148	0.	1	1830	223	0.	2	0045	298	0.
1	0605	74	7508.	1	1220	149	0.	1	1835	224	0.	2	0050	299	0.
1	0610	75	7112.	1	1225	150	0.	1	1840	225	0.	2	0055	300	0.

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 PEAK FLOW     TIME                        MAXIMUM AVERAGE FLOW
                                     6-HR       24-HR       72-HR     24.92-HR
+   (CFS)       (HR)
                          (CFS)
+   13155.      5.00                 4802.       1206.       1162.        1162.
                        (INCHES)      .816        .819        .819         .819
                         (AC-FT)     2381.       2392.       2392.        2392.

                     CUMULATIVE AREA =   54.73 SQ MI
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HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .85

DA MON	HRMN	ORD	FLOW	DA MON	HRMN	ORD	FLOW	DA MON	HRMN	ORD	FLOW	DA MON	HRMN	ORD	FLOW
1	0000	1	0.	1	0615	76	6602.	1	1230	151	0.	1	1845	226	0.
1	0005	2	0.	1	0620	77	6144.	1	1235	152	0.	1	1850	227	0.
1	0010	3	0.	1	0625	78	5658.	1	1240	153	0.	1	1855	228	0.
1	0015	4	0.	1	0630	79	5155.	1	1245	154	0.	1	1900	229	0.
1	0020	5	0.	1	0635	80	4649.	1	1250	155	0.	1	1905	230	0.
1	0025	6	0.	1	0640	81	4155.	1	1255	156	0.	1	1910	231	0.
1	0030	7	0.	1	0645	82	3685.	1	1300	157	0.	1	1915	232	0.
1	0035	8	1.	1	0650	83	3249.	1	1305	158	0.	1	1920	233	0.
1	0040	9	2.	1	0655	84	2852.	1	1310	159	0.	1	1925	234	0.
1	0045	10	4.	1	0700	85	2495.	1	1315	160	0.	1	1930	235	0.
1	0050	11	4.	1	0705	86	2177.	1	1320	161	0.	1	1935	236	0.
1	0055	12	4.	1	0710	87	1894.	1	1325	162	0.	1	1940	237	0.
1	0100	13	4.	1	0715	88	1644.	1	1330	163	0.	1	1945	238	0.
1	0105	14	4.	1	0720	89	1422.	1	1335	164	0.	1	1950	239	0.
1	0110	15	4.	1	0725	90	1225.	1	1340	165	0.	1	1955	240	0.
1	0115	16	5.	1	0730	91	1051.	1	1345	166	0.	1	2000	241	0.
1	0120	17	7.	1	0735	92	897.	1	1350	167	0.	1	2005	242	0.
1	0125	18	9.	1	0740	93	762.	1	1355	168	0.	1	2010	243	0.
1	0130	19	14.	1	0745	94	644.	1	1400	169	0.	1	2015	244	0.
1	0135	20	20.	1	0750	95	541.	1	1405	170	0.	1	2020	245	0.
1	0140	21	27.	1	0755	96	453.	1	1410	171	0.	1	2025	246	0.
1	0145	22	33.	1	0800	97	378.	1	1415	172	0.	1	2030	247	0.
1	0150	23	40.	1	0805	98	314.	1	1420	173	0.	1	2035	248	0.
1	0155	24	47.	1	0810	99	260.	1	1425	174	0.	1	2040	249	0.
1	0200	25	58.	1	0815	100	215.	1	1430	175	0.	1	2045	250	0.
1	0205	26	72.	1	0820	101	178.	1	1435	176	0.	1	2050	251	0.
1	0210	27	91.	1	0825	102	147.	1	1440	177	0.	1	2055	252	0.
1	0215	28	116.	1	0830	103	121.	1	1445	178	0.	1	2100	253	0.
1	0220	29	147.	1	0835	104	99.	1	1450	179	0.	1	2105	254	0.
1	0225	30	183.	1	0840	105	82.	1	1455	180	0.	1	2110	255	0.
1	0230	31	223.	1	0845	106	67.	1	1500	181	0.	1	2115	256	0.
1	0235	32	265.	1	0850	107	55.	1	1505	182	0.	1	2120	257	0.
1	0240	33	313.	1	0855	108	45.	1	1510	183	0.	1	2125	258	0.
1	0245	34	372.	1	0900	109	37.	1	1515	184	0.	1	2130	259	0.
1	0250	35	439.	1	0905	110	30.	1	1520	185	0.	1	2135	260	0.
1	0255	36	511.	1	0910	111	24.	1	1525	186	0.	1	2140	261	0.
1	0300	37	589.	1	0915	112	19.	1	1530	187	0.	1	2145	262	0.
1	0305	38	682.	1	0920	113	15.	1	1535	188	0.	1	2150	263	0.
1	0310	39	801.	1	0925	114	12.	1	1540	189	0.	1	2155	264	0.
1	0315	40	962.	1	0930	115	9.	1	1545	190	0.	1	2200	265	0.
1	0320	41	1188.	1	0935	116	7.	1	1550	191	0.	1	2205	266	0.
1	0325	42	1510.	1	0940	117	5.	1	1555	192	0.	1	2210	267	0.
1	0330	43	1956.	1	0945	118	4.	1	1600	193	0.	1	2215	268	0.
1	0335	44	2453.	1	0950	119	3.	1	1605	194	0.	1	2220	269	0.
1	0340	45	2818.	1	0955	120	2.	1	1610	195	0.	1	2225	270	0.
1	0345	46	3093.	1	1000	121	2.	1	1615	196	0.	1	2230	271	0.
1	0350	47	3449.	1	1005	122	1.	1	1620	197	0.	1	2235	272	0.
1	0355	48	3935.	1	1010	123	1.	1	1625	198	0.	1	2240	273	0.
1	0400	49	4513.	1	1015	124	1.	1	1630	199	0.	1	2245	274	0.
1	0405	50	5161.	1	1020	125	1.	1	1635	200	0.	1	2250	275	0.
1	0410	51	5863.	1	1025	126	0.	1	1640	201	0.	1	2255	276	0.
1	0415	52	6625.	1	1030	127	0.	1	1645	202	0.	1	2300	277	0.
1	0420	53	7453.	1	1035	128	0.	1	1650	203	0.	1	2305	278	0.
1	0425	54	8334.	1	1040	129	0.	1	1655	204	0.	1	2310	279	0.
1	0430	55	9259.	1	1045	130	0.	1	1700	205	0.	1	2315	280	0.
1	0435	56	10203.	1	1050	131	0.	1	1705	206	0.	1	2320	281	0.
1	0440	57	11096.	1	1055	132	0.	1	1710	207	0.	1	2325	282	0.
1	0445	58	11854.	1	1100	133	0.	1	1715	208	0.	1	2330	283	0.
1	0450	59	12443.	1	1105	134	0.	1	1720	209	0.	1	2335	284	0.
1	0455	60	12833.	1	1110	135	0.	1	1725	210	0.	1	2340	285	0.
1	0500	61	12971.	1	1115	136	0.	1	1730	211	0.	1	2345	286	0.
1	0505	62	12863.	1	1120	137	0.	1	1735	212	0.	1	2350	287	0.

1	0510	63	12567.	1	1125	138	0.	1	1740	213	0.	1	2355	288	0.
1	0515	64	12134.	1	1130	139	0.	1	1745	214	0.	2	0000	289	0.
1	0520	65	11608.	1	1135	140	0.	1	1750	215	0.	2	0005	290	0.
1	0525	66	11035.	1	1140	141	0.	1	1755	216	0.	2	0010	291	0.
1	0530	67	10456.	1	1145	142	0.	1	1800	217	0.	2	0015	292	0.
1	0535	68	9898.	1	1150	143	0.	1	1805	218	0.	2	0020	293	0.
1	0540	69	9383.	1	1155	144	0.	1	1810	219	0.	2	0025	294	0.
1	0545	70	8922.	1	1200	145	0.	1	1815	220	0.	2	0030	295	0.
1	0550	71	8514.	1	1205	146	0.	1	1820	221	0.	2	0035	296	0.
1	0555	72	8143.	1	1210	147	0.	1	1825	222	0.	2	0040	297	0.
1	0600	73	7784.	1	1215	148	0.	1	1830	223	0.	2	0045	298	0.
1	0605	74	7417.	1	1220	149	0.	1	1835	224	0.	2	0050	299	0.
1	0610	75	7026.	1	1225	150	0.	1	1840	225	0.	2	0055	300	0.

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 PEAK FLOW     TIME                        MAXIMUM AVERAGE FLOW
                                     6-HR       24-HR       72-HR     24.92-HR
+   (CFS)       (HR)
                          (CFS)
+   12971.      5.00                 4733.       1189.       1145.        1145.
                        (INCHES)      .804        .808        .808         .808
                         (AC-FT)     2347.       2357.       2357.        2357.

                     CUMULATIVE AREA =   54.73 SQ MI
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*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

            **************
            *            *
227 KK      *     RRDB   *
            *            *
            **************

240 KO         OUTPUT CONTROL VARIABLES
                     IPRNT          1  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL         0.  HYDROGRAPH PLOT SCALE

             HYDROGRAPH ROUTING DATA

241 RS         STORAGE ROUTING
                     NSTPS          1  NUMBER OF SUBREACHES
                      ITYP       STOR  TYPE OF INITIAL CONDITION
                    RSVRIC      -1.00  INITIAL CONDITION
                         X        .00 WORKING R AND D COEFFICIENT

242 SV           STORAGE         .0       9.0     107.0     231.0     372.0     529.0     705.0     903.0    1125.0    1376.0
                             1659.0    1974.0    2007.0    2115.0    2331.0    2690.0    2933.0

244 SQ         DISCHARGE          0.       10.       57.       80.       99.      114.      128.      140.      151.      162.
                               171.      181.      182.     8654.    33270.   110918.   163477.

246 SE         ELEVATION    3161.00   3162.00   3167.00   3172.00   3177.00   3182.00   3187.00   3192.00   3197.00   3202.00
                            3207.00   3212.00   3212.50   3214.00   3217.00   3222.00   3225.00

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HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .88

DA MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000	1	0.	.0	3161.0	1	0820	101	281.	2008.3	3212.5	1	1640	201	178.	1889.7	3210.7
1	0005	2	0.	.0	3161.0	1	0825	102	233.	2007.7	3212.5	1	1645	202	178.	1888.4	3210.6
1	0010	3	0.	.0	3161.0	1	0830	103	193.	2007.1	3212.5	1	1650	203	178.	1887.2	3210.6
1	0015	4	0.	.0	3161.0	1	0835	104	182.	2006.6	3212.5	1	1655	204	178.	1886.0	3210.6
1	0020	5	0.	.0	3161.0	1	0840	105	182.	2006.0	3212.5	1	1700	205	178.	1884.7	3210.6
1	0025	6	0.	.0	3161.0	1	0845	106	182.	2005.3	3212.5	1	1705	206	178.	1883.5	3210.6
1	0030	7	0.	.0	3161.0	1	0850	107	182.	2004.5	3212.5	1	1710	207	178.	1882.3	3210.5
1	0035	8	0.	.0	3161.0	1	0855	108	182.	2003.6	3212.4	1	1715	208	178.	1881.1	3210.5
1	0040	9	0.	.0	3161.0	1	0900	109	182.	2002.7	3212.4	1	1720	209	178.	1879.8	3210.5
1	0045	10	0.	.1	3161.0	1	0905	110	182.	2001.6	3212.4	1	1725	210	178.	1878.6	3210.5
1	0050	11	0.	.1	3161.0	1	0910	111	182.	2000.6	3212.4	1	1730	211	178.	1877.4	3210.5
1	0055	12	0.	.1	3161.0	1	0915	112	182.	1999.5	3212.4	1	1735	212	178.	1876.2	3210.4
1	0100	13	0.	.2	3161.0	1	0920	113	182.	1998.4	3212.4	1	1740	213	178.	1874.9	3210.4
1	0105	14	0.	.2	3161.0	1	0925	114	182.	1997.2	3212.4	1	1745	214	178.	1873.7	3210.4
1	0110	15	0.	.2	3161.0	1	0930	115	182.	1996.0	3212.3	1	1750	215	178.	1872.5	3210.4
1	0115	16	0.	.2	3161.0	1	0935	116	182.	1994.8	3212.3	1	1755	216	178.	1871.3	3210.4
1	0120	17	0.	.3	3161.0	1	0940	117	182.	1993.6	3212.3	1	1800	217	178.	1870.0	3210.3
1	0125	18	0.	.4	3161.0	1	0945	118	182.	1992.4	3212.3	1	1805	218	178.	1868.8	3210.3
1	0130	19	0.	.4	3161.0	1	0950	119	182.	1991.2	3212.3	1	1810	219	178.	1867.6	3210.3
1	0135	20	1.	.6	3161.1	1	0955	120	181.	1990.0	3212.2	1	1815	220	178.	1866.4	3210.3
1	0140	21	1.	.8	3161.1	1	1000	121	181.	1988.7	3212.2	1	1820	221	178.	1865.1	3210.3
1	0145	22	1.	1.0	3161.1	1	1005	122	181.	1987.5	3212.2	1	1825	222	178.	1863.9	3210.3
1	0150	23	1.	1.3	3161.1	1	1010	123	181.	1986.2	3212.2	1	1830	223	177.	1862.7	3210.2

1	0155	24	2.	1.6	3161.2	*	1	1015	124	181.	1985.0	3212.2	*	1	1835	224	177.	1861.5	3210.2
1	0200	25	2.	2.1	3161.2	*	1	1020	125	181.	1983.8	3212.1	*	1	1840	225	177.	1860.3	3210.2
1	0205	26	3.	2.6	3161.3	*	1	1025	126	181.	1982.5	3212.1	*	1	1845	226	177.	1859.0	3210.2
1	0210	27	4.	3.3	3161.4	*	1	1030	127	181.	1981.3	3212.1	*	1	1850	227	177.	1857.8	3210.2
1	0215	28	5.	4.1	3161.5	*	1	1035	128	181.	1980.0	3212.1	*	1	1855	228	177.	1856.6	3210.1
1	0220	29	6.	5.2	3161.6	*	1	1040	129	181.	1978.8	3212.1	*	1	1900	229	177.	1855.4	3210.1
1	0225	30	7.	6.5	3161.7	*	1	1045	130	181.	1977.5	3212.1	*	1	1905	230	177.	1854.2	3210.1
1	0230	31	9.	8.1	3161.9	*	1	1050	131	181.	1976.3	3212.0	*	1	1910	231	177.	1852.9	3210.1
1	0235	32	10.	10.0	3162.1	*	1	1055	132	181.	1975.0	3212.0	*	1	1915	232	177.	1851.7	3210.1
1	0240	33	12.	12.3	3162.2	*	1	1100	133	181.	1973.8	3212.0	*	1	1920	233	177.	1850.5	3210.0
1	0245	34	13.	14.9	3162.3	*	1	1105	134	181.	1972.5	3212.0	*	1	1925	234	177.	1849.3	3210.0
1	0250	35	14.	18.1	3162.5	*	1	1110	135	181.	1971.3	3212.0	*	1	1930	235	177.	1848.1	3210.0
1	0255	36	16.	21.7	3162.6	*	1	1115	136	181.	1970.1	3211.9	*	1	1935	236	177.	1846.8	3210.0
1	0300	37	18.	25.9	3162.9	*	1	1120	137	181.	1968.8	3211.9	*	1	1940	237	177.	1845.6	3210.0
1	0305	38	20.	30.7	3163.1	*	1	1125	138	181.	1967.6	3211.9	*	1	1945	238	177.	1844.4	3209.9
1	0310	39	23.	36.3	3163.4	*	1	1130	139	181.	1966.3	3211.9	*	1	1950	239	177.	1843.2	3209.9
1	0315	40	26.	42.9	3163.7	*	1	1135	140	181.	1965.1	3211.9	*	1	1955	240	177.	1842.0	3209.9
1	0320	41	30.	50.8	3164.1	*	1	1140	141	181.	1963.8	3211.8	*	1	2000	241	177.	1840.7	3209.9
1	0325	42	35.	60.8	3164.6	*	1	1145	142	181.	1962.6	3211.8	*	1	2005	242	177.	1839.5	3209.9
1	0330	43	41.	73.5	3165.3	*	1	1150	143	181.	1961.3	3211.8	*	1	2010	243	177.	1838.3	3209.8
1	0335	44	49.	89.6	3166.1	*	1	1155	144	181.	1960.1	3211.8	*	1	2015	244	177.	1837.1	3209.8
1	0340	45	57.	108.7	3167.1	*	1	1200	145	181.	1958.9	3211.8	*	1	2020	245	177.	1835.9	3209.8
1	0345	46	61.	130.1	3167.9	*	1	1205	146	180.	1957.6	3211.7	*	1	2025	246	177.	1834.7	3209.8
1	0350	47	66.	153.7	3168.9	*	1	1210	147	180.	1956.4	3211.7	*	1	2030	247	177.	1833.4	3209.8
1	0355	48	71.	180.4	3170.0	*	1	1215	148	180.	1955.1	3211.7	*	1	2035	248	176.	1832.2	3209.7
1	0400	49	76.	210.9	3171.2	*	1	1220	149	180.	1953.9	3211.7	*	1	2040	249	176.	1831.0	3209.7
1	0405	50	82.	245.8	3172.5	*	1	1225	150	180.	1952.6	3211.7	*	1	2045	250	176.	1829.8	3209.7
1	0410	51	87.	285.5	3173.9	*	1	1230	151	180.	1951.4	3211.6	*	1	2050	251	176.	1828.6	3209.7
1	0415	52	93.	330.5	3175.5	*	1	1235	152	180.	1950.2	3211.6	*	1	2055	252	176.	1827.4	3209.7
1	0420	53	100.	381.1	3177.3	*	1	1240	153	180.	1948.9	3211.6	*	1	2100	253	176.	1826.2	3209.7
1	0425	54	105.	437.9	3179.1	*	1	1245	154	180.	1947.7	3211.6	*	1	2105	254	176.	1824.9	3209.6
1	0430	55	111.	501.2	3181.1	*	1	1250	155	180.	1946.4	3211.6	*	1	2110	255	176.	1823.7	3209.6
1	0435	56	117.	571.1	3183.2	*	1	1255	156	180.	1945.2	3211.5	*	1	2115	256	176.	1822.5	3209.6
1	0440	57	123.	647.6	3185.4	*	1	1300	157	180.	1944.0	3211.5	*	1	2120	257	176.	1821.3	3209.6
1	0445	58	130.	730.0	3187.6	*	1	1305	158	180.	1942.7	3211.5	*	1	2125	258	176.	1820.1	3209.6
1	0450	59	135.	817.1	3189.8	*	1	1310	159	180.	1941.5	3211.5	*	1	2130	259	176.	1818.9	3209.5
1	0455	60	140.	907.7	3192.1	*	1	1315	160	180.	1940.2	3211.5	*	1	2135	260	176.	1817.7	3209.5
1	0500	61	145.	1000.2	3194.2	*	1	1320	161	180.	1939.0	3211.4	*	1	2140	261	176.	1816.4	3209.5
1	0505	62	149.	1092.6	3196.3	*	1	1325	162	180.	1937.8	3211.4	*	1	2145	262	176.	1815.2	3209.5
1	0510	63	154.	1183.5	3198.2	*	1	1330	163	180.	1936.5	3211.4	*	1	2150	263	176.	1814.0	3209.5
1	0515	64	157.	1271.6	3199.9	*	1	1335	164	180.	1935.3	3211.4	*	1	2155	264	176.	1812.8	3209.4
1	0520	65	161.	1356.3	3201.6	*	1	1340	165	180.	1934.0	3211.4	*	1	2200	265	176.	1811.6	3209.4
1	0525	66	164.	1436.9	3203.1	*	1	1345	166	180.	1932.8	3211.3	*	1	2205	266	176.	1810.4	3209.4
1	0530	67	166.	1513.3	3204.4	*	1	1350	167	180.	1931.6	3211.3	*	1	2210	267	176.	1809.2	3209.4
1	0535	68	169.	1585.5	3205.7	*	1	1355	168	180.	1930.3	3211.3	*	1	2215	268	176.	1808.0	3209.4
1	0540	69	171.	1653.8	3206.9	*	1	1400	169	180.	1929.1	3211.3	*	1	2220	269	176.	1806.8	3209.3
1	0545	70	173.	1718.5	3207.9	*	1	1405	170	180.	1927.9	3211.3	*	1	2225	270	176.	1805.5	3209.3
1	0550	71	175.	1780.1	3208.9	*	1	1410	171	179.	1926.6	3211.2	*	1	2230	271	176.	1804.3	3209.3
1	0555	72	177.	1838.8	3209.9	*	1	1415	172	179.	1925.4	3211.2	*	1	2235	272	176.	1803.1	3209.3
1	0600	73	178.	1894.9	3210.7	*	1	1420	173	179.	1924.1	3211.2	*	1	2240	273	176.	1801.9	3209.3
1	0605	74	180.	1948.3	3211.6	*	1	1425	174	179.	1922.9	3211.2	*	1	2245	274	175.	1800.7	3209.2
1	0610	75	182.	1999.0	3212.4	*	1	1430	175	179.	1921.7	3211.2	*	1	2250	275	175.	1799.5	3209.2
1	0615	76	2634.	2038.3	3212.9	*	1	1435	176	179.	1920.4	3211.1	*	1	2255	276	175.	1798.3	3209.2
1	0620	77	4341.	2060.0	3213.2	*	1	1440	177	179.	1919.2	3211.1	*	1	2300	277	175.	1797.1	3209.2
1	0625	78	5112.	2069.9	3213.4	*	1	1445	178	179.	1918.0	3211.1	*	1	2305	278	175.	1795.9	3209.2
1	0630	79	5336.	2072.7	3213.4	*	1	1450	179	179.	1916.7	3211.1	*	1	2310	279	175.	1794.7	3209.2
1	0635	80	5240.	2071.5	3213.4	*	1	1455	180	179.	1915.5	3211.1	*	1	2315	280	175.	1793.5	3209.1
1	0640	81	4963.	2067.9	3213.3	*	1	1500	181	179.	1914.3	3211.1	*	1	2320	281	175.	1792.3	3209.1
1	0645	82	4590.	2063.2	3213.3	*	1	1505	182	179.	1913.0	3211.0	*	1	2325	282	175.	1791.1	3209.1
1	0650	83	4174.	2057.9	3213.2	*	1	1510	183	179.	1911.8	3211.0	*	1	2330	283	175.	1789.8	3209.1
1	0655	84	3751.	2052.5	3213.1	*	1	1515	184	179.	1910.6	3211.0	*	1	2335	284	175.	1788.6	3209.1
1	0700	85	3340.	2047.3	3213.1	*	1	1520	185	179.	1909.3	3211.0	*	1	2340	285	175.	1787.4	3209.0
1	0705	86	2955.	2042.3	3213.0	*	1	1525	186	179.	1908.1	3211.0	*	1	2345	286	175.	1786.2	3209.0
1	0710	87	2600.	2037.8	3212.9	*	1	1530	187	179.	1906.9	3210.9	*	1	2350	287	175.	1785.0	3209.0
1	0715	88	2278.	2033.7	3212.9	*	1	1535	188	179.	1905.6	3210.9	*	1	2355	288	175.	1783.8	3209.0
1	0720	89	1988.	2030.0	3212.8	*	1	1540	189	179.	1904.4	3210.9	*	2	0000	289	175.	1782.6	3209.0
1	0725	90	1728.	2026.7	3212.8	*	1	1545	190	179.	1903.2	3210.9	*	2	0005	290	175.	1781.4	3208.9
1	0730	91	1497.	2023.8	3212.7	*	1	1550	191	179.	1901.9	3210.9	*	2	0010	291	175.	1780.2	3208.9
1	0735	92	1292.	2021.1	3212.7	*	1	1555	192	179.	1900.7	3210.8	*	2	0015	292	175.	1779.0	3208.9
1	0740	93	1110.	2018.8	3212.7	*	1	1600	193	179.	1899.5	3210.8	*	2	0020	293	175.	1777.8	3208.9
1	0745	94	949.	2016.8	3212.6	*	1	1605	194	179.	1898.3	3210.8	*	2	0025	294	175.	1776.6	3208.9
1	0750	95	808.	2015.0	3212.6	*	1	1610	195	179.	1897.0	3210.8	*	2	0030	295	175.	1775.4	3208.8
1	0755	96	685.	2013.4	3212.6	*	1	1615	196	179.	1895.8	3210.8	*	2	0035	296	175.	1774.2	3208.8
1	0800	97	577.	2012.0	3212.6	*	1	1620	197	178.	1894.6	3210.7	*	2	0040	297	175.	1773.0	3208.8
1	0805	98	485.	2010.9	3212.6	*	1	1625	198	178.	1893.3	3210.7	*	2	0045	298	175.	1771.8	3208.8
1	0810	99	406.	2009.9	3212.5	*	1	1630	199	178.	1892.1	3210.7	*	2	0050	299	175.	1770.6	3208.8
1	0815	100	338.	2009.0	3212.5	*	1	1635	200	178.	1890.9	3210.7	*	2	0055	300	175.	1769.4	3208.8

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
	(CFS)				
+ 5336.	6.50	998.	359.	346.	346.
	(INCHES)	.170	.244	.244	.244
	(AC-FT)	495.	712.	712.	712.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
2073.	6.50	2003.	1592.	1534.	1534.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3213.41	6.50	3212.43	3203.25	3201.70	3201.70

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .87

1	0630	79	4733.	2065.0	3213.3	1	1450	179	179.	1916.6	3211.1	1	2310	279	175.	1794.6	3209.2
1	0635	80	4858.	2066.6	3213.3	1	1455	180	179.	1915.4	3211.1	1	2315	280	175.	1793.4	3209.1
1	0640	81	4712.	2064.7	3213.3	1	1500	181	179.	1914.2	3211.1	1	2320	281	175.	1792.2	3209.1
1	0645	82	4417.	2061.0	3213.2	1	1505	182	179.	1912.9	3211.0	1	2325	282	175.	1791.0	3209.1
1	0650	83	4050.	2056.3	3213.2	1	1510	183	179.	1911.7	3211.0	1	2330	283	175.	1789.8	3209.1
1	0655	84	3658.	2051.3	3213.1	1	1515	184	179.	1910.5	3211.0	1	2335	284	175.	1788.6	3209.1
1	0700	85	3268.	2046.3	3213.0	1	1520	185	179.	1909.2	3211.0	1	2340	285	175.	1787.3	3209.0
1	0705	86	2896.	2041.6	3213.0	1	1525	186	179.	1908.0	3211.0	1	2345	286	175.	1786.1	3209.0
1	0710	87	2552.	2037.2	3212.9	1	1530	187	179.	1906.8	3210.9	1	2350	287	175.	1784.9	3209.0
1	0715	88	2237.	2033.2	3212.9	1	1535	188	179.	1905.6	3210.9	1	2355	288	175.	1783.7	3209.0
1	0720	89	1954.	2029.6	3212.8	1	1540	189	179.	1904.3	3210.9	2	0000	289	175.	1782.5	3209.0
1	0725	90	1700.	2026.3	3212.8	1	1545	190	179.	1903.1	3210.9	2	0005	290	175.	1781.3	3208.9
1	0730	91	1473.	2023.5	3212.7	1	1550	191	179.	1901.9	3210.9	2	0010	291	175.	1780.1	3208.9
1	0735	92	1271.	2020.9	3212.7	1	1555	192	179.	1900.6	3210.8	2	0015	292	175.	1778.9	3208.9
1	0740	93	1092.	2018.6	3212.7	1	1600	193	179.	1899.4	3210.8	2	0020	293	175.	1777.7	3208.9
1	0745	94	934.	2016.6	3212.6	1	1605	194	179.	1898.2	3210.8	2	0025	294	175.	1776.5	3208.9
1	0750	95	795.	2014.8	3212.6	1	1610	195	179.	1896.9	3210.8	2	0030	295	175.	1775.3	3208.8
1	0755	96	674.	2013.3	3212.6	1	1615	196	179.	1895.7	3210.8	2	0035	296	175.	1774.1	3208.8
1	0800	97	568.	2011.9	3212.6	1	1620	197	178.	1894.5	3210.7	2	0040	297	175.	1772.9	3208.8
1	0805	98	477.	2010.8	3212.6	1	1625	198	178.	1893.2	3210.7	2	0045	298	175.	1771.7	3208.8
1	0810	99	399.	2009.8	3212.5	1	1630	199	178.	1892.0	3210.7	2	0050	299	175.	1770.5	3208.8
1	0815	100	333.	2008.9	3212.5	1	1635	200	178.	1890.8	3210.7	2	0055	300	175.	1769.3	3208.8

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 4858.	6.58		899.	334.	322.	322.
		(INCHES)	.153	.227	.227	.227
		(AC-FT)	446.	662.	662.	662.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
2067.	6.58	2001.	1589.	1531.	1531.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3213.33	6.58	3212.40	3203.19	3201.64	3201.64

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .86

DA MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000	1	0.	.0	3161.0	1	0820	101	273.	2008.2	3212.5	1	1640	201	178.	1889.5	3210.7
1	0005	2	0.	.0	3161.0	1	0825	102	227.	2007.6	3212.5	1	1645	202	178.	1888.3	3210.6
1	0010	3	0.	.0	3161.0	1	0830	103	188.	2007.1	3212.5	1	1650	203	178.	1887.0	3210.6
1	0015	4	0.	.0	3161.0	1	0835	104	182.	2006.6	3212.5	1	1655	204	178.	1885.8	3210.6
1	0020	5	0.	.0	3161.0	1	0840	105	182.	2005.9	3212.5	1	1700	205	178.	1884.6	3210.6
1	0025	6	0.	.0	3161.0	1	0845	106	182.	2005.2	3212.5	1	1705	206	178.	1883.4	3210.6
1	0030	7	0.	.0	3161.0	1	0850	107	182.	2004.4	3212.5	1	1710	207	178.	1882.1	3210.5
1	0035	8	0.	.0	3161.0	1	0855	108	182.	2003.5	3212.4	1	1715	208	178.	1880.9	3210.5
1	0040	9	0.	.0	3161.0	1	0900	109	182.	2002.5	3212.4	1	1720	209	178.	1879.7	3210.5
1	0045	10	0.	.0	3161.0	1	0905	110	182.	2001.5	3212.4	1	1725	210	178.	1878.4	3210.5
1	0050	11	0.	.1	3161.0	1	0910	111	182.	2000.4	3212.4	1	1730	211	178.	1877.2	3210.5
1	0055	12	0.	.1	3161.0	1	0915	112	182.	1999.3	3212.4	1	1735	212	178.	1876.0	3210.4
1	0100	13	0.	.1	3161.0	1	0920	113	182.	1998.2	3212.4	1	1740	213	178.	1874.8	3210.4
1	0105	14	0.	.2	3161.0	1	0925	114	182.	1997.0	3212.3	1	1745	214	178.	1873.5	3210.4
1	0110	15	0.	.2	3161.0	1	0930	115	182.	1995.9	3212.3	1	1750	215	178.	1872.3	3210.4
1	0115	16	0.	.2	3161.0	1	0935	116	182.	1994.7	3212.3	1	1755	216	178.	1871.1	3210.4
1	0120	17	0.	.3	3161.0	1	0940	117	182.	1993.5	3212.3	1	1800	217	178.	1869.9	3210.3
1	0125	18	0.	.3	3161.0	1	0945	118	182.	1992.2	3212.3	1	1805	218	178.	1868.7	3210.3
1	0130	19	0.	.4	3161.0	1	0950	119	182.	1991.0	3212.3	1	1810	219	178.	1867.4	3210.3
1	0135	20	1.	.5	3161.1	1	0955	120	181.	1989.8	3212.2	1	1815	220	178.	1866.2	3210.3
1	0140	21	1.	.7	3161.1	1	1000	121	181.	1988.6	3212.2	1	1820	221	178.	1865.0	3210.3
1	0145	22	1.	.9	3161.1	1	1005	122	181.	1987.3	3212.2	1	1825	222	178.	1863.8	3210.3
1	0150	23	1.	1.1	3161.1	1	1010	123	181.	1986.1	3212.2	1	1830	223	177.	1862.5	3210.2
1	0155	24	2.	1.4	3161.2	1	1015	124	181.	1984.8	3212.2	1	1835	224	177.	1861.3	3210.2
1	0200	25	2.	1.8	3161.2	1	1020	125	181.	1983.6	3212.1	1	1840	225	177.	1860.1	3210.2
1	0205	26	3.	2.3	3161.3	1	1025	126	181.	1982.3	3212.1	1	1845	226	177.	1858.9	3210.2
1	0210	27	3.	2.8	3161.3	1	1030	127	181.	1981.1	3212.1	1	1850	227	177.	1857.7	3210.2
1	0215	28	4.	3.6	3161.4	1	1035	128	181.	1979.9	3212.1	1	1855	228	177.	1856.4	3210.1
1	0220	29	5.	4.5	3161.5	1	1040	129	181.	1978.6	3212.1	1	1900	229	177.	1855.2	3210.1
1	0225	30	6.	5.7	3161.6	1	1045	130	181.	1977.4	3212.1	1	1905	230	177.	1854.0	3210.1
1	0230	31	8.	7.1	3161.8	1	1050	131	181.	1976.1	3212.0	1	1910	231	177.	1852.8	3210.1
1	0235	32	10.	8.8	3162.0	1	1055	132	181.	1974.9	3212.0	1	1915	232	177.	1851.5	3210.1
1	0240	33	11.	10.8	3162.1	1	1100	133	181.	1973.6	3212.0	1	1920	233	177.	1850.3	3210.0
1	0245	34	12.	13.2	3162.2	1	1105	134	181.	1972.4	3212.0	1	1925	234	177.	1849.1	3210.0
1	0250	35	13.	16.0	3162.4	1	1110	135	181.	1971.1	3212.0	1	1930	235	177.	1847.9	3210.0
1	0255	36	15.	19.3	3162.5	1	1115	136	181.	1969.9	3211.9	1	1935	236	177.	1846.7	3210.0
1	0300	37	17.	23.1	3162.7	1	1120	137	181.	1968.6	3211.9	1	1940	237	177.	1845.5	3210.0
1	0305	38	19.	27.5	3162.9	1	1125	138	181.	1967.4	3211.9	1	1945	238	177.	1844.2	3209.9
1	0310	39	21.	32.7	3163.2	1	1130	139	181.	1966.1	3211.9	1	1950	239	177.	1843.0	3209.9
1	0315	40	24.	38.8	3163.5	1	1135	140	181.	1964.9	3211.9	1	1955	240	177.	1841.8	3209.9
1	0320	41	28.	46.2	3163.9	1	1140	141	181.	1963.7	3211.8	1	2000	241	177.	1840.6	3209.9
1	0325	42	32.	55.6	3164.4	1	1145	142	181.	1962.4	3211.8	1	2005	242	177.	1839.4	3209.9
1	0330	43	38.	67.5	3165.0	1	1150	143	181.	1961.2	3211.8	1	2010	243	177.	1838.1	3209.8
1	0335	44	45.	82.7	3165.8	1	1155	144	181.	1959.9	3211.8	1	2015	244	177.	1836.9	3209.8
1	0340	45	54.	100.9	3166.7	1	1200	145	181.	1958.7	3211.8	1	2020	245	177.	1835.7	3209.8
1	0345	46	60.	121.3	3167.6	1	1205	146	180.	1957.4	3211.7	1	2025	246	177.	1834.5	3209.8
1	0350	47	64.	143.8	3168.5	1	1210	147	180.	1956.2	3211.7	1	2030	247	177.	1833.3	3209.8
1	0355	48	69.	169.3	3169.5	1	1215	148	180.	1955.0	3211.7	1	2035	248	176.	1832.1	3209.7
1	0400	49	74.	198.4	3170.7	1	1220	149	180.	1953.7	3211.7	1	2040	249	176.	1830.9	3209.7
1	0405	50	80.	231.8	3172.0	1	1225	150	180.	1952.5	3211.7	1	2045	250	176.	1829.6	3209.7
1	0410	51	85.	269.8	3173.4	1	1230	151	180.	1951.2	3211.6	1	2050	251	176.	1828.4	3209.7
1	0415	52	91.	312.9	3174.9	1	1235	152	180.	1950.0	3211.6	1	2055	252	176.	1827.2	3209.7
1	0420	53	98.	361.5	3176.6	1	1240	153	180.	1948.7	3211.6	1	2100	253	176.	1826.0	3209.7
1	0425	54	103.	416.1	3178.4	1	1245	154	180.	1947.5	3211.6	1	2105	254	176.	1824.8	3209.6
1	0430	55	109.	476.9	3180.3	1	1250	155	180.	1946.3	3211.6	1	2110	255	176.	1823.6	3209.6
1	0435	56	115.	544.2	3182.4	1	1255	156	180.	1945.0	3211.5	1	2115	256	176.	1822.4	3209.6
1	0440	57	121.	617.8	3184.5	1	1300	157	180.	1943.8	3211.5	1	2120	257	176.	1821.1	3209.6
1	0445	58	127.	697.2	3186.8	1	1305	158	180.	1942.5	3211.5	1	2125	258	176.	1819.9	3209.6
1	0450	59	133.	781.2	3188.9	1	1310	159	180.	1941.3	3211.5	1	2130	259	176.	1818.7	3209.5
1	0455	60	138.	868.5	3191.1	1	1315	160	180.	1940.1	3211.5	1	2135	260	176.	1817.5	3209.5
1	0500	61	143.	957.7	3193.2	1	1320	161	180.	1938.8	3211.4	1	2140	261	176.	1816.3	3209.5
1	0505	62	147.	1046.9	3195.2	1	1325	162	180.	1937.6	3211.4	1	2145	262	176.	1815.1	3209.5
1	0510	63	151.	1134.6	3197.2	1	1330	163	180.	1936.4	3211.4	1	2150	263	176.	1813.9	3209.5
1	0515	64	155.	1219.8	3198.9	1	1335	164	180.	1935.1	3211.4	1	2155	264	176.	1812.7	3209.4
1	0520	65	159.	1301.6	3200.5	1	1340	165	180.	1933.9	3211.4	1	2200	265	176.	1811.4	3209.4
1	0525	66	162.	1379.5	3202.1	1	1345	166	180.	1932.6	3211.3	1	2205	266	176.	1810.2	3209.4
1	0530	67	164.	1453.4	3203.4	1	1350	167	180.	1931.4	3211.3	1	2210	267	176.	1809.0	3209.4
1	0535	68	167.	1523.2	3204.6	1	1355	168	180.	1930.2	3211.3	1	2215	268	176.	1807.8	3209.4
1	0540	69	169.	1589.3	3205.8	1	1400	169	180.	1928.9	3211.3	1	2220	269	176.	1806.6	3209.3
1	0545	70	171.	1652.0	3206.9	1	1405	170	180.	1927.7	3211.3	1	2225	270	176.	1805.4	3209.3
1	0550	71	173.	1711.6	3207.8	1	1410	171	179.	1926.5	3211.2	1	2230	271	176.	1804.2	3209.3
1	0555	72	174.	1768.5	3208.7	1	1415	172	179.	1925.2	3211.2	1	2235	272	176.	1803.0	3209.3
1	0600	73	176.	1822.8	3209.6	1	1420	173	179.	1924.0	3211.2	1	2240	273	176.	1801.8	3209.3
1	0605	74	178.	1874.6	3210.4	1	1425	174	179.	1922.7	3211.2	1	2245	274	175.	1800.6	3209.2
1	0610	75	179.	1923.7	3211.2	1	1430	175	179.	1921.5	3211.2	1	2250	275	175.	1799.3	3209.2
1	0615	76	181.	1970.0	3211.9	1	1435	176	179.	1920.3	3211.1	1	2255	276	175.	1798.1	3209.2
1	0620	77	563.	2011.9	3212.6	1	1440	177	179.	1919.0	3211.1	1	2300	277	175.	1796.9	3209.2
1	0625	78	2864.	2041.2	3213.0	1	1445	178	179.	1917.8	3211.1	1	2305	278	175.	1795.7	3209.2
1	0630	79	3973.	2055.3	3213.2	1	1450	179	179.	1916.6	3211.1	1	2310	279	175.	1794.5	3209.2
1	0635	80	4393.	2060.7	3213.2	1	1455	180	179.	1915.3	3211.1	1	2315	280	175.	1793.3	3209.1
1	0640	81	4419.	2061.0	3213.3	1	1500	181	179.	1914.1	3211.0	1	2320	281	175.	1792.1	3209.1
1	0645	82	4226.	2058.6	3213.2	1	1505	182	179.	1912.9	3211.0	1	2325	282	175.	1790.9	3209.1
1	0650	83	3921.	2054.7	3213.2	1	1510	183	179.	1911.6	3211.0	1	2330	283	175.	1789.7	3209.1
1	0655	84	3566.	2050.1	3213.1	1	1515	184	179.	1910.4	3211.0	1	2335	284	175.	1788.5	3209.1
1	0700	85	3200.	2045.5	3213.0	1	1520	185	179.	1909.2	3211.0	1	2340	285	175.	1787.3	3209.0
1	0705	86	2844.	2040.9	3213.0	1	1525	186	179.	1907.9	3211.0	1	2345	286	175.	1786.1	3209.0
1	0710	87	2510.	2036.7	3212.9	1	1530	187	179.	1906.7	3210.9	1	2350	287	175.	1784.9	3209.0
1	0715	88	2204.	2032.8	3212.9	1	1535	188	179.	1905.5	3210.9	1	2355	288	175.	1783.7	3209.0
1	0720	89	1926.	2029.2	3212.8	1	1540	189	179.	1904.2	3210.9	2	0000	289	175.	1782.5	3209.0
1	0725	90	1676.	2026.0	3212.8	1	1545	190	179.	1903.0	3210.9	2	0005	290	175.	1781.2	3208.9
1	0730	91	1453.	2023.2	3212.7	1	1550	191	179.	1901.8	3210.9	2	0010	291	175.	1780.0	3208.9
1	0735	92	1254.	2020.7	3212.7	1	1555	192	179.	1900.6	3210.8	2	0015	292	175.	1778.8	3208.9
1	0740	93	1078.	2018.4	3212.7	1	1600	193	179.	1899.3	3210.8	2	0020	293	175.	1777.6	3208.9
1	0745	94	922.	2016.4	3212.6	1	1605	194	179.	1898.1	3210.8	2	0025	294	175.	1776.4	3208.9
1	0750	95	785.	2014.7	3212.6	1	1610	195	179.	1896.9	3210.8	2	0030	295	175.	1775.2	3208.8
1	0755	96	665.	2013.2	3212.6	1	1615	196	179.	1895.6	3210.8	2	0035	296	175.	1774.0	3208.8
1	0800	97	561.	2011.8	3212.6	1	1620	197	178.	1894.4	3210.7	2	0040	297	175.	1772.8	3208.8
1	0805	98	471.	2010.7	3212.6	1	1625	198	178.	1893.2	3210.7	2	0045	298	175.	1771.6	3208.8
1	0810	99	394.	2009.7	3212.5	1	1630	199	178.	1891.9	3210.7	2	0050	299	175.	1770.4	3208.8
1	0815	100	329.	2008.9	3212.5	1	1635	200	178.	1890.7	3210.7	2	0055	300	174.	1769.2	3208.7

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 4419.	6.67		820.	314.	302.	302.
		(INCHES)	.139	.213	.213	.213
		(AC-FT)	407.	623.	623.	623.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
2061.	6.67	2000.	1587.	1529.	1529.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3213.25	6.67	3212.38	3203.14	3201.59	3201.59

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .85

DA MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE

| | | |

				TIME	4.17	4.17	4.17	4.17
ROUTED TO								
+	R-RR12A	5.82	1	FLOW	1595.	1564.	1539.	1517.
				TIME	4.50	4.50	4.50	4.50
HYDROGRAPH AT								
+	104A	3.39	1	FLOW	474.	461.	451.	442.
				TIME	4.33	4.33	4.33	4.33
3 COMBINED AT								
+	C104A	47.87	1	FLOW	12385.	12142.	11949.	11780.
				TIME	5.00	5.00	5.00	5.00
HYDROGRAPH AT								
+	RD1	.43	1	FLOW	218.	213.	210.	207.
				TIME	3.58	3.58	3.58	3.58
ROUTED TO								
+	R-RD1	.43	1	FLOW	214.	212.	205.	202.
				TIME	3.67	3.67	3.67	3.67
HYDROGRAPH AT								
+	RD2	.47	1	FLOW	319.	313.	309.	305.
				TIME	3.58	3.58	3.58	3.58
2 COMBINED AT								
+	CRD2	.90	1	FLOW	508.	498.	489.	484.
				TIME	3.58	3.58	3.58	3.58
ROUTED TO								
+	RCRD2	.90	1	FLOW	501.	493.	485.	476.
				TIME	3.67	3.67	3.67	3.67
HYDROGRAPH AT								
+	RD3	.33	1	FLOW	204.	200.	197.	195.
				TIME	3.58	3.58	3.58	3.58
2 COMBINED AT								
+	CRD3	1.23	1	FLOW	678.	667.	656.	645.
				TIME	3.67	3.67	3.67	3.67
HYDROGRAPH AT								
+	RR14A	4.60	1	FLOW	1359.	1333.	1311.	1293.
				TIME	4.17	4.17	4.17	4.17
ROUTED TO								
+	R-RR14A	4.60	1	FLOW	1352.	1327.	1305.	1287.
				TIME	4.25	4.25	4.25	4.25
HYDROGRAPH AT								
+	RD4	.40	1	FLOW	193.	189.	185.	183.
				TIME	3.58	3.58	3.58	3.58
2 COMBINED AT								
+	CRD4	5.00	1	FLOW	1395.	1367.	1347.	1326.
				TIME	4.17	4.17	4.17	4.17
ROUTED TO								
+	RCRD4	5.00	1	FLOW	1390.	1363.	1341.	1322.
				TIME	4.25	4.25	4.25	4.25
HYDROGRAPH AT								
+	RD5	.37	1	FLOW	182.	178.	175.	172.
				TIME	3.58	3.58	3.58	3.58
2 COMBINED AT								
+	CRD5	5.37	1	FLOW	1423.	1394.	1373.	1352.
				TIME	4.17	4.17	4.17	4.17
ROUTED TO								
+	RCRD5	5.37	1	FLOW	1420.	1394.	1371.	1352.
				TIME	4.25	4.25	4.25	4.25
HYDROGRAPH AT								
+	RD6	.25	1	FLOW	155.	152.	150.	148.
				TIME	3.58	3.58	3.58	3.58
2 COMBINED AT								
+	CRD6	5.62	1	FLOW	1444.	1417.	1394.	1375.
				TIME	4.25	4.25	4.25	4.25
3 COMBINED AT								
+	INRR	54.73	1	FLOW	13630.	13364.	13155.	12971.
				TIME	5.00	5.00	5.00	5.00
ROUTED TO								
+	RRDB	54.73	1	FLOW	5336.	4858.	4419.	4046.
				TIME	6.50	6.58	6.67	6.67

** PEAK STAGES IN FEET **

1	STAGE	3213.41	3213.33	3213.25	3213.18
	TIME	6.50	6.58	6.67	6.67

DIVERSION TO								
+	*D-RROUT	54.73	1	FLOW	5154.	4676.	4237.	3864.
				TIME	6.50	6.58	6.67	6.67
HYDROGRAPH AT								
+	*DOUTRR	54.73	1	FLOW	182.	182.	182.	182.
				TIME	6.25	6.33	6.33	6.42
ROUTED TO								
+	ROUTRR	54.73	1	FLOW	182.	182.	182.	182.
				TIME	6.50	6.42	6.50	6.58
HYDROGRAPH AT								
+	R3A	.19	1	FLOW	80.	78.	76.	75.
				TIME	3.58	3.58	3.58	3.58
2 COMBINED AT								
+	CR3A	54.92	1	FLOW	182.	182.	182.	182.
				TIME	6.33	6.42	6.50	6.58
ROUTED TO								
+	RCR3A	54.92	1	FLOW	182.	182.	182.	182.
				TIME	6.42	6.50	6.58	6.67

1

*** NORMAL END OF HEC-1 ***

B.3.6 10-year_FLAM5A

```
1****************************************
 *                                      *
 *   FLOOD HYDROGRAPH PACKAGE  (HEC-1)  *
 *              JUN   1998              *
 *           VERSION 4.1                *
 *                                      *
 *  RUN DATE   20MAY20  TIME  09:42:46  *
 *                                      *
 ****************************************
```

```
**************************************
*                                    *
*   U.S. ARMY CORPS OF ENGINEERS     *
*   HYDROLOGIC ENGINEERING CENTER    *
*        609 SECOND STREET           *
*      DAVIS, CALIFORNIA 95616       *
*          (916) 756-1104            *
*                                    *
**************************************
```

```
X     X  XXXXXXX   XXXXX           X
X     X  X        X     X         XX
X     X  X        X               X
XXXXXXX  XXXX     X        XXXXX  X
X     X  X        X               X
X     X  X        X     X         X
X     X  XXXXXXX   XXXXX          XXX
```

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL   LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM


```
          LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

                        *DIAGRAM
 *** FREE ***
               1        ID   RED ROCK TRAIL TO FY19-87
               2        ID   US FEDERAL HIGHWAY ADMINISTRATION
               3        ID   PN WXXY4000
               4        ID
               5        ID   HEC-1 MODEL TAKEN FROM CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT (CCRFCD)
               6        ID   2018 MASTER PLAN UPDATE
               7        ID   FLAMINGO / TROPICANA WASHES WATERSHED
               8        ID   RECOMMENDED DRAINAGE SYSTEM WITH ULTIMATE DEVELOPMENT
               9        ID   INPUT FILE = FLAM3A.DAT
              10        ID   INPUT FILE DATE = MAY 2020
              11        ID   PRECIPITATION VALUES TAKEN FROM NOAA ATLAS 2 &
              12        ID   ADJUSTED PER CCRFCD HYDRAULIC CRITERIA & DRAINAGE DESIGN MANUAL TABLE 501
              13        ID   DESIGN STORM = 10-YEAR, 6-HOUR STORM
              14        ID   STORM DISTRIBUTION = SDN5
              15        ID   STORM CENTERING = SERIES A: REGIONAL DETENTION BASIN FLOWS NOT DIVERTED OUT
              16        ID   MODELED BY JACOBS (DAVE BERGH, PE)
              17        ID
              18        ID   JR CARDS CONTAIN DARFS BASED ON THE FOLLOWING VALUES:
              19        ID
              20        ID         AREA    DARF
              21        ID         SQ.MI.
              22        ID                 SDN 3   SDN 4   SDN 5
              23        ID         0 - 0.5 0.990
              24        ID         0.5 - 1 0.975
              25        ID         1 - 2   0.950
              26        ID         2 - 3   0.925
              27        ID         3 - 4   0.915
              28        ID         4 - 5   0.908
              29        ID         5 - 6   0.903
              30        ID         6 - 7   0.895
              31        ID         7 - 8   0.885
              32        ID         8 - 9           0.875
              33        ID         9 - 10          0.865
              34        ID         10 - 11         0.857
              35        ID         11 - 12         0.850
              36        ID         12 - 16                 0.832
              37        ID         16 - 20                 0.804
              38        ID         20 - 30                 0.765
              39        ID         30 - 40                 0.725
              40        ID         40 - 50                 0.695
              41        ID         50 - 100                0.640
              42        ID         100 - 150               0.580
              43        ID         150 - 200               0.530
              44        ID
              45        IT      5       0       0     300
              46        IO      5       0       0
              47        IN      5       0       0
              48        JR    PREC   0.832   0.804   0.765   0.725   0.695    0.64    0.58    0.53
                        *
```



```
          LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

              49        KK     RR1
              50        BA   4.225
              51        PB    2.47
              52        PC       0    0.02   0.059    0.08    0.11   0.144    0.15    0.16   0.168   0.171
              53        PC    0.18   0.182   0.187    0.19   0.197   0.202    0.21    0.22    0.23   0.241
              54        PC    0.25   0.259   0.265    0.28    0.29     0.3   0.305   0.309    0.31   0.317
              55        PC   0.321   0.327   0.333   0.346   0.361   0.381   0.408    0.43   0.477   0.514
              56        PC   0.561    0.63    0.71    0.72   0.731   0.752   0.779    0.79   0.795   0.804
              57        PC    0.81    0.82   0.826    0.84   0.859   0.889    0.91   0.938   0.966    0.97
              58        PC   0.974   0.979   0.981   0.983   0.985   0.989    0.99   0.992   0.993   0.996
              59        PC   0.997   0.999       1
              60        LS       0    85.8
              61        UD   0.443
                        *
              62        KK     RR2
              63        BA   3.547
              64        PB    2.50
              65        LS       0    86.2
              66        UD   0.545
                        *
              67        KK    RRR2
              68        KM   MUSKINGUM ROUTING UNSTABLE - USED MUSKINGUM-CUNGE
              69        KM   NATURAL WASH
              70        RD    1700   0.076    0.04       0    TRAP     100       2
                        *
              71        KK    CRR2
              72        KM   COMBINE RR1 AND RRR2
              73        HC       2
                        *
              74        KK   RCRR2
              75        KM   ROUTE CRR2 TO CRR3
              76        KM   NATURAL WASH
              77        KM   TRAVEL LENGTH = 15850
              78        KM   SLOPE = 0.043
              79        KM   N = 0.04
              80        KM   HYDRAULIC RADIUS = 1.5
              81        KM   VELOCITY = 16.2
              82        RM       3   0.272    0.15
                        *
              83        KK     RR5
              84        BA   7.132
              85        PB    2.29
              86        LS       0    87.9
              87        UD   0.615
                        *
```



```
          LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

              88        KK   R-RR5
              89        KM   ROUTE RR5 THROUGH RR3 TO CRR3
              90        KM   NATURAL WASH
              91        KM   TRAVEL LENGTH = 10700
              92        KM   SLOPE = 0.037
              93        KM   N = 0.04
              94        KM   HYDRAULIC RADIUS = 1.5
              95        KM   VELOCITY = 15
              96        RM       2   0.198    0.15
                        *
              97        KK     RR3
              98        BA  14.983
              99        PB    2.29
             100        LS       0      87
             101        UD   0.761
                        *
             102        KK    CRR3
             103        KM   COMBINE RCRR2, R-RR5, AND RR3
             104        HC       3
                        *
             105        KK   RCRR3
             106        KM   ROUTE CRR3 THROUGH RR10 TO CRR10
             107        KM   NATURAL WASH
             108        KM   TRAVEL LENGTH = 20700
             109        KM   SLOPE = 0.025
             110        KM   N = 0.04
             111        KM   HYDRAULIC RADIUS = 1.5
             112        KM   VELOCITY = 12.3
             113        RM       6   0.466    0.15
                        *
             114        KK    RR10
             115        BA   8.775
             116        PB    2.10
             117        LS       0    86.1
             118        UD   0.882
```

```
                 *
  119            KK   CRR10
  120            KM   COMBINE RCRR3 AND RR10
  121            HC       2
                 *
  122            KK  RCRR10
  123            KM   ROUTE CRR10 THROUGH 104A TO C104A (RED ROCK DETENTION BASIN)
  124            KM   NATURAL WASH
  125            KM   TRAVEL LENGTH = 14500
  126            KM   SLOPE = 0.021
  127            KM   N = 0.04
  128            KM   HYDRAULIC RADIUS = 1.5
  129            KM   VELOCITY = 11.3
1                                    HEC-1 INPUT                                    PAGE  4
 LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10
  130            RM       4   0.356    0.15
                 *
  131            KK   RR12A
  132            BA   5.821
  133            PB    2.11
  134            LS       0    87.6
  135            UD   0.728
                 *
  136            KK R-RR12A
  137            KM   ROUTE RR12A THROUGH 104A TO C104A (RED ROCK DETENTION BASIN)
  138            KM   NATURAL WASH
  139            KM   TRAVEL LENGTH = 12000
  140            KM   SLOPE = 0.026
  141            KM   N = 0.04
  142            KM   HYDRAULIC RADIUS = 1.5
  143            KM   VELOCITY = 12.6
  144            RM       3   0.265    0.15
                 *
  145            KK    104A
  146            BA   3.391
  147            PB    1.95
  148            LS       0    81.3
  149            UD   0.801
                 *
  150            KK   C104A
  151            KM   COMBINE RCRR10, R-RR12A, AND 104A
  152            HC       3
                 *
  153            KK     RD1
  154            BA   0.431
  155            PB    2.10
  156            LS       0    86.6
  157            UD   0.195
                 *
  158            KK   R-RD1
  159            KM   ROUTE RD1 THROUGH RD2 TO CRD2
  160            KM   FUTURE CONCRETE CHANNEL
  161            RD    5100   0.061   0.015       0    TRAP      12       2
                 *
  162            KK     RD2
  163            BA   0.473
  164            PB    2.00
  165            LS       0    91.2
  166            UD   0.167
                 *
1                                    HEC-1 INPUT                                    PAGE  5
 LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10
  167            KK    CRD2
  168            KM   COMBINE R-RD1 AND RD2
  169            HC       2
                 *
  170            KK   RCRD2
  171            KM   ROUTE CRD2 TO CRD3 (RED ROCK DETENTION BASIN)
  172            KM   FUTURE CONCRETE CHANNEL
  173            RD    4600    0.05   0.015       0    TRAP      12       2
                 *
  174            KK     RD3
  175            BA    0.33
  176            PB    1.96
  177            LS       0    90.3
  178            UD   0.168
                 *
  179            KK    CRD3
  180            KM   COMBINE RCRD2 AND RD3
  181            HC       2
                 *
  182            KK   RR14A
  183            BA   4.602
  184            PB    2.18
  185            LS       0    87.3
  186            UD   0.725
                 *
  187            KK R-RR14A
  188            KM   ROUTE RR14A THROUGH RD4 TO CRD4
  189            KM   FUTURE CONCRETE CHANNEL
  190            RD    5500   0.071   0.015       0    TRAP      12       2
                 *
  191            KK     RD4
  192            BA   0.402
  193            PB    2.10
  194            LS       0    85.1
  195            UD   0.177
                 *
  196            KK    CRD4
  197            KM   COMBINE R-RR14A AND RD4
  198            HC       2
                 *
  199            KK   RCRD4
  200            KM   ROUTE CRD4 THROUGH RD5 TO CRD5
  201            KM   FUTURE CONCRETE CHANNEL
  202            RD    4550   0.067   0.015       0    TRAP      20       2
                 *
1                                    HEC-1 INPUT                                    PAGE  6
 LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10
  203            KK     RD5
  204            BA    0.37
  205            PB    2.00
  206            LS       0    86.2
  207            UD   0.163
                 *
  208            KK    CRD5
  209            KM   COMBINE RCRD4 AND RD5
  210            HC       2
                 *
  211            KK   RCRD5
  212            KM   ROUTE CRD5 THROUGH RD6 TO CRD6 (RED ROCK DETENTION BASIN)
  213            KM   FUTURE CONCRETE CHANNEL
  214            RD    5600   0.047   0.015       0    TRAP      20       2
                 *
  215            KK     RD6
  216            BA    0.25
  217            PB    1.97
  218            LS       0      90
  219            UD    0.16
                 *
  220            KK    CRD6
  221            KM   COMBINE RCRD5 AND RD6
  222            HC       2
                 *
  223            KK    INRR
  224            KM   COMBINE C104A, CRD3, AND CRD6 - TOTAL INFLOW TO RED ROCK DETENTION BASIN
  225            KO       1
  226            HC       3
                 * ============================================================
  227            KK    RRDB
  228            KM   RED ROCK DETENTION BASIN
  229            KM   TAKEN FROM THE CORP MODELS FOR RED ROCK DETENTION BASIN
  230            KM   100YR COMPUTED PROBABILITY DETENTION DESIGN
  231            KM   FACILITY ID-MILE = RRWA 0716
  232            KM   STORAGE VOLUME = 2007 ACRE-FEET
  233            KM   OUTLET = 27"H x 27"W RCB ORIFICE
  234            KM   100-YR DISCHARGE = 182 CFS
  235            KM   SPILLWAY LENGTH = 600 FT
  236            KM   AUXILLARY OGEE SPILLWAY LENGTH = 323 FT
  237            KM   SPILLWAY CREST ELEVATION = 3212.5 FT NGVD
  238            KM   PMF DISCHARGE = 110000 CFS
  239            KM   TOP OF DAM ELEVATION = 3225 FT NGVD
  240            KO       1
  241            RS       1    STOR      -1
  242            SV       0       9     107     231     372     529     705     903    1125    1376
  243            SV    1659    1974    2007    2115    2331    2690    2933
  244            SQ       0      10      57      80      99     114     128     140     151     162
```

```
  LINE          ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

  245           SQ     171     181     182    8654   33270  110918  163477
  246           SE    3161    3162    3167    3172    3177    3182    3187    3192    3197    3202
  247           SE    3207    3212  3212.5    3214    3217    3222    3225
                * =======================================================

  248           KK *DOUTRR
  249           KM   DIVERT SPILLWAY OVERFLOW IN EXCESS OF CORPS DESIGN OUTFLOW
  250           DT*D-RROUT
  251           DI       0     182    3000    5000   10000
  252           DQ       0       0    2818    4818    9818
                *

  253           KK  ROUTRR
  254           KM   ROUTE OUTFLOW FROM RED ROCK DETENTION BASIN THROUGH R3A TO CR3A
  255           KM   FACILITY = RED ROCK CHANNEL
  256           KM   FACILITY # = RRWA 0714, 0709, 0701
  257           KM   LINING = RCP
  258           KM   LINING = RIPRAP CHNL 10'W X 6'D; 2:1SS
  259           RD    1500   0.008    0.04       0    TRAP      10       2
                *

  260           KK     R3A
  261           BA   0.186
  262           PB    1.93
  263           LS       0    84.3
  264           UD    0.11
                *

  265           KK    CR3A
  266           KM   COMBINE OUTFLOW FROM RED ROCK DETENTION BASIN WITH R3A
  267           HC       2
                *

  268           KK   RCR3A
  269           KM   ROUTE CR3A THROUGH UFR1 TO CUFR1
  270           KM   FACILITY = RED ROCK CHANNEL
  271           KM   FACILITY # = RRWA 0695, 0692, 0608, 0607
  272           KM   LINING = RCP
  273           RD    5045  0.0055   0.013       0    CIRC       8       0
                *

  274           ZZ
```

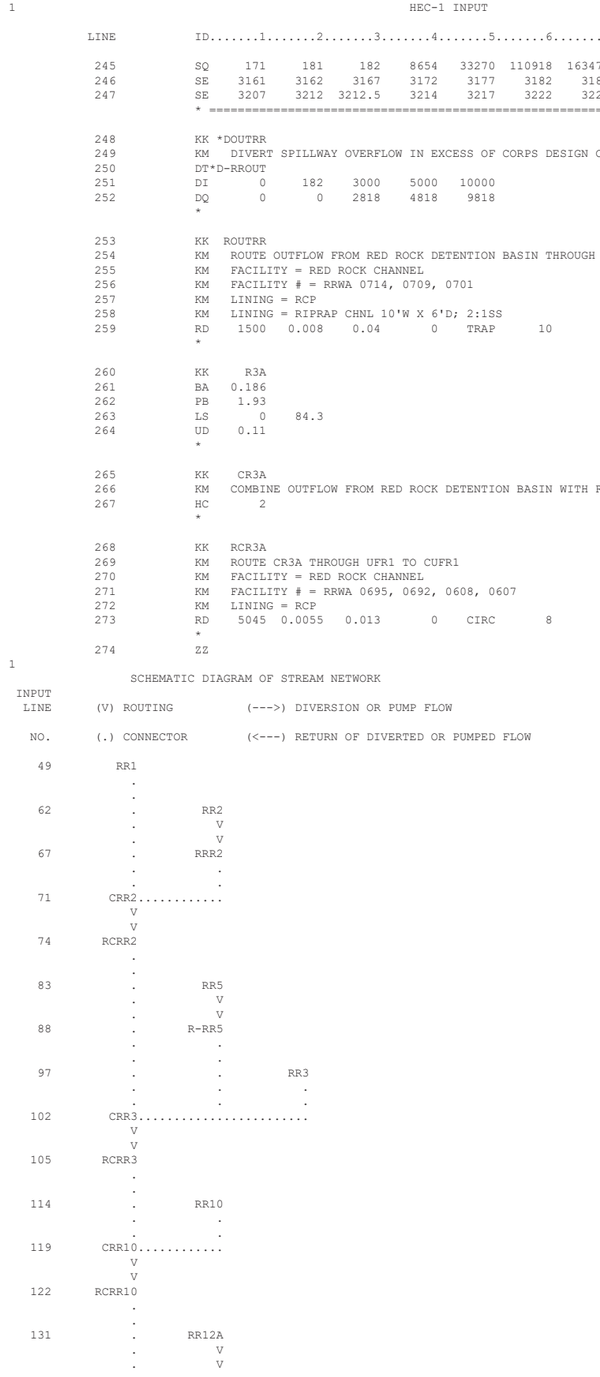
1

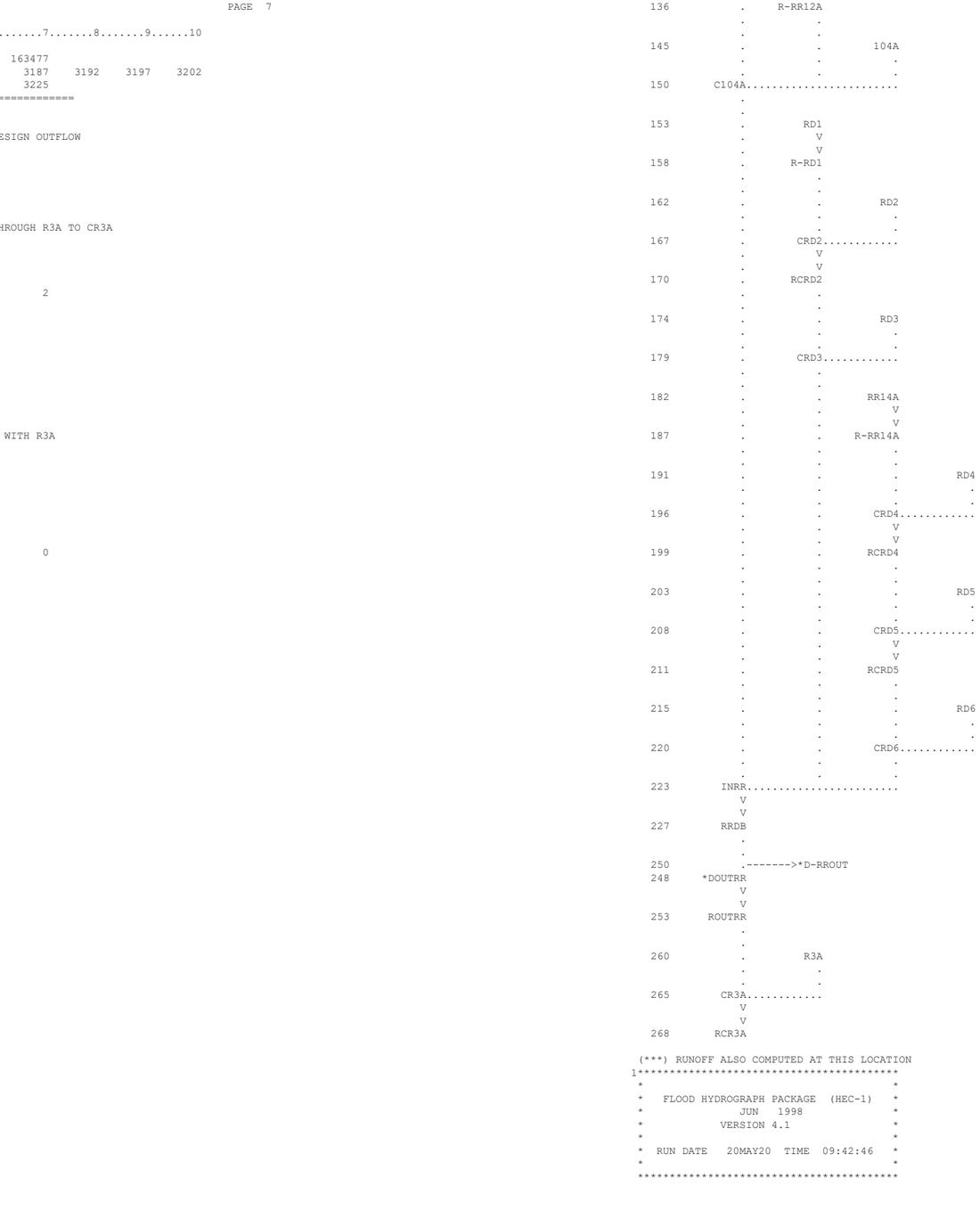
SCHEMATIC DIAGRAM OF STREAM NETWORK

INPUT

LINE (V) ROUTING (---->) DIVERSION OR PUMP FLOW

NO. (.) CONNECTOR (<---) RETURN OF DIVERTED OR PUMPED FLOW





(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

```
1*****************************************
 *                                       *
 *   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
 *             JUN   1998                *
 *          VERSION 4.1                  *
 *                                       *
 *  RUN DATE   20MAY20  TIME  09:42:46   *
 *                                       *
 *****************************************
```

```
*************************************
*                                   *
*    U.S. ARMY CORPS OF ENGINEERS   *
*    HYDROLOGIC ENGINEERING CENTER  *
*         609 SECOND STREET         *
*       DAVIS, CALIFORNIA 95616     *
*           (916) 756-1104          *
*                                   *
*************************************
```

RED ROCK TRAIL TO FY19-87
US FEDERAL HIGHWAY ADMINISTRATION
PN WXXY4000

HEC-1 MODEL TAKEN FROM CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT (CCRFCD)
2018 MASTER PLAN UPDATE
FLAMINGO / TROPICANA WASHES WATERSHED
RECOMMENDED DRAINAGE SYSTEM WITH ULTIMATE DEVELOPMENT
INPUT FILE = FLAM3A.DAT
INPUT FILE DATE = MAY 2020
PRECIPITATION VALUES TAKEN FROM NOAA ATLAS 2 &
ADJUSTED PER CCRFCD HYDRAULIC CRITERIA & DRAINAGE DESIGN MANUAL TABLE 501
DESIGN STORM = 10-YEAR, 6-HOUR STORM
STORM DISTRIBUTION = SDN5
STORM CENTERING = SERIES A: REGIONAL DETENTION BASIN FLOWS NOT DIVERTED OUT
MODELED BY JACOBS (DAVE BERGH, PE)

JR CARDS CONTAIN DARFS BASED ON THE FOLLOWING VALUES:

AREA SQ.MI.	DARF SDN 3	SDN 4	SDN 5
0 - 0.5	0.990		
0.5 - 1	0.975		
1 - 2	0.950		
2 - 3	0.925		
3 - 4	0.915		
4 - 5	0.908		
5 - 6	0.903		
6 - 7	0.895		
7 - 8	0.885		
8 - 9		0.875	
9 - 10		0.865	
10 - 11		0.857	
11 - 12		0.850	
12 - 16			0.832
16 - 20			0.804
20 - 30			0.765
30 - 40			0.725
40 - 50			0.695
50 - 100			0.640
100 - 150			0.580
150 - 200			0.530

```
 46 IO          OUTPUT CONTROL VARIABLES
                     IPRNT          5  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL          0.  HYDROGRAPH PLOT SCALE

    IT          HYDROGRAPH TIME DATA
                      NMIN          5  MINUTES IN COMPUTATION INTERVAL
                     IDATE      1   0  STARTING DATE
                     ITIME       0000  STARTING TIME
                        NQ        300  NUMBER OF HYDROGRAPH ORDINATES
                    NDDATE      2   0  ENDING DATE
                    NDTIME       0055  ENDING TIME
                     ICENT         19  CENTURY MARK

                  COMPUTATION INTERVAL     .08 HOURS
                      TOTAL TIME BASE   24.92 HOURS

          ENGLISH UNITS
               DRAINAGE AREA         SQUARE MILES
               PRECIPITATION DEPTH   INCHES
               LENGTH, ELEVATION     FEET
               FLOW                  CUBIC FEET PER SECOND
               STORAGE VOLUME        ACRE-FEET
               SURFACE AREA          ACRES
               TEMPERATURE           DEGREES FAHRENHEIT

    JP          MULTI-PLAN OPTION
                     NPLAN          1  NUMBER OF PLANS

    JR          MULTI-RATIO OPTION
                    RATIOS OF PRECIPITATION
                    .83      .80      .76      .73      .69      .64      .58      .53

*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


          **************
          *            *
223 KK    *     INRR   *
          *            *
          **************

225 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          1  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL          0.  HYDROGRAPH PLOT SCALE

226 HC          HYDROGRAPH COMBINATION
                     ICOMP          3  NUMBER OF HYDROGRAPHS TO COMBINE

                                       ***
```

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .83

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.		1	0615	76	6879.		1	1230	151	0.		1	1845	226	0.
1	0005	2	0.		1	0620	77	6459.		1	1235	152	0.		1	1850	227	0.
1	0010	3	0.		1	0625	78	5989.		1	1240	153	0.		1	1855	228	0.
1	0015	4	0.		1	0630	79	5485.		1	1245	154	0.		1	1900	229	0.
1	0020	5	0.		1	0635	80	4966.		1	1250	155	0.		1	1905	230	0.
1	0025	6	0.		1	0640	81	4452.		1	1255	156	0.		1	1910	231	0.
1	0030	7	1.		1	0645	82	3958.		1	1300	157	0.		1	1915	232	0.
1	0035	8	3.		1	0650	83	3498.		1	1305	158	0.		1	1920	233	0.
1	0040	9	6.		1	0655	84	3078.		1	1310	159	0.		1	1925	234	0.
1	0045	10	8.		1	0700	85	2700.		1	1315	160	0.		1	1930	235	0.
1	0050	11	9.		1	0705	86	2362.		1	1320	161	0.		1	1935	236	0.
1	0055	12	10.		1	0710	87	2063.		1	1325	162	0.		1	1940	237	0.
1	0100	13	10.		1	0715	88	1796.		1	1330	163	0.		1	1945	238	0.
1	0105	14	10.		1	0720	89	1558.		1	1335	164	0.		1	1950	239	0.
1	0110	15	11.		1	0725	90	1347.		1	1340	165	0.		1	1955	240	0.
1	0115	16	12.		1	0730	91	1159.		1	1345	166	0.		1	2000	241	0.
1	0120	17	16.		1	0735	92	992.		1	1350	167	0.		1	2005	242	0.
1	0125	18	21.		1	0740	93	844.		1	1355	168	0.		1	2010	243	0.
1	0130	19	29.		1	0745	94	715.		1	1400	169	0.		1	2015	244	0.
1	0135	20	41.		1	0750	95	602.		1	1405	170	0.		1	2020	245	0.
1	0140	21	55.		1	0755	96	505.		1	1410	171	0.		1	2025	246	0.
1	0145	22	71.		1	0800	97	422.		1	1415	172	0.		1	2030	247	0.
1	0150	23	89.		1	0805	98	351.		1	1420	173	0.		1	2035	248	0.
1	0155	24	110.		1	0810	99	292.		1	1425	174	0.		1	2040	249	0.
1	0200	25	140.		1	0815	100	242.		1	1430	175	0.		1	2045	250	0.
1	0205	26	178.		1	0820	101	200.		1	1435	176	0.		1	2050	251	0.
1	0210	27	219.		1	0825	102	166.		1	1440	177	0.		1	2055	252	0.
1	0215	28	261.		1	0830	103	137.		1	1445	178	0.		1	2100	253	0.
1	0220	29	303.		1	0835	104	113.		1	1450	179	0.		1	2105	254	0.
1	0225	30	350.		1	0840	105	93.		1	1455	180	0.		1	2110	255	0.
1	0230	31	408.		1	0845	106	77.		1	1500	181	0.		1	2115	256	0.
1	0235	32	475.		1	0850	107	63.		1	1505	182	0.		1	2120	257	0.
1	0240	33	549.		1	0855	108	52.		1	1510	183	0.		1	2125	258	0.
1	0245	34	629.		1	0900	109	42.		1	1515	184	0.		1	2130	259	0.
1	0250	35	719.		1	0905	110	34.		1	1520	185	0.		1	2135	260	0.
1	0255	36	821.		1	0910	111	28.		1	1525	186	0.		1	2140	261	0.
1	0300	37	936.		1	0915	112	22.		1	1530	187	0.		1	2145	262	0.
1	0305	38	1065.		1	0920	113	18.		1	1535	188	0.		1	2150	263	0.
1	0310	39	1211.		1	0925	114	14.		1	1540	189	0.		1	2155	264	0.
1	0315	40	1392.		1	0930	115	11.		1	1545	190	0.		1	2200	265	0.
1	0320	41	1605.		1	0935	116	8.		1	1550	191	0.		1	2205	266	0.
1	0325	42	1869.		1	0940	117	6.		1	1555	192	0.		1	2210	267	0.
1	0330	43	2234.		1	0945	118	5.		1	1600	193	0.		1	2215	268	0.
1	0335	44	2644.		1	0950	119	4.		1	1605	194	0.		1	2220	269	0.
1	0340	45	2939.		1	0955	120	3.		1	1610	195	0.		1	2225	270	0.
1	0345	46	3156.		1	1000	121	2.		1	1615	196	0.		1	2230	271	0.
1	0350	47	3478.		1	1005	122	2.		1	1620	197	0.		1	2235	272	0.
1	0355	48	3946.		1	1010	123	1.		1	1625	198	0.		1	2240	273	0.
1	0400	49	4482.		1	1015	124	1.		1	1630	199	0.		1	2245	274	0.
1	0405	50	5039.		1	1020	125	1.		1	1635	200	0.		1	2250	275	0.
1	0410	51	5638.		1	1025	126	0.		1	1640	201	0.		1	2255	276	0.
1	0415	52	6291.		1	1030	127	0.		1	1645	202	0.		1	2300	277	0.
1	0420	53	6989.		1	1035	128	0.		1	1650	203	0.		1	2305	278	0.
1	0425	54	7711.		1	1040	129	0.		1	1655	204	0.		1	2310	279	0.
1	0430	55	8444.		1	1045	130	0.		1	1700	205	0.		1	2315	280	0.
1	0435	56	9175.		1	1050	131	0.		1	1705	206	0.		1	2320	281	0.
1	0440	57	9860.		1	1055	132	0.		1	1710	207	0.		1	2325	282	0.
1	0445	58	10435.		1	1100	133	0.		1	1715	208	0.		1	2330	283	0.
1	0450	59	10869.		1	1105	134	0.		1	1720	209	0.		1	2335	284	0.
1	0455	60	11133.		1	1110	135	0.		1	1725	210	0.		1	2340	285	0.
1	0500	61	11179.		1	1115	136	0.		1	1730	211	0.		1	2345	286	0.
1	0505	62	11038.		1	1120	137	0.		1	1735	212	0.		1	2350	287	0.
1	0510	63	10787.		1	1125	138	0.		1	1740	213	0.		1	2355	288	0.
1	0515	64	10468.		1	1130	139	0.		1	1745	214	0.		2	0000	289	0.
1	0520	65	10104.		1	1135	140	0.		1	1750	215	0.		2	0005	290	0.
1	0525	66	9724.		1	1140	141	0.		1	1755	216	0.		2	0010	291	0.
1	0530	67	9354.		1	1145	142	0.		1	1800	217	0.		2	0015	292	0.
1	0535	68	9010.		1	1150	143	0.		1	1805	218	0.		2	0020	293	0.
1	0540	69	8703.		1	1155	144	0.		1	1810	219	0.		2	0025	294	0.
1	0545	70	8439.		1	1200	145	0.		1	1815	220	0.		2	0030	295	0.
1	0550	71	8214.		1	1205	146	0.		1	1820	221	0.		2	0035	296	0.
1	0555	72	8005.		1	1210	147	0.		1	1825	222	0.		2	0040	297	0.
1	0600	73	7789.		1	1215	148	0.		1	1830	223	0.		2	0045	298	0.
1	0605	74	7540.		1	1220	149	0.		1	1835	224	0.		2	0050	299	0.
1	0610	75	7240.		1	1225	150	0.		1	1840	225	0.		2	0055	300	0.

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 11179.	5.00	4543.	1144.	1102.	1102.
		(INCHES) .772	.777	.777	.777
		(AC-FT) 2253.	2269.	2269.	2269.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .80

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	6538.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	6141.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	5695.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	5217.	1		1245	154	0.	1		1900	229	0.
1		0020	5	0.	1		0635	80	4725.	1		1250	155	0.	1		1905	230	0.
1		0025	6	0.	1		0640	81	4236.	1		1255	156	0.	1		1910	231	0.
1		0030	7	0.	1		0645	82	3767.	1		1300	157	0.	1		1915	232	0.
1		0035	8	2.	1		0650	83	3329.	1		1305	158	0.	1		1920	233	0.
1		0040	9	4.	1		0655	84	2929.	1		1310	159	0.	1		1925	234	0.
1		0045	10	6.	1		0700	85	2570.	1		1315	160	0.	1		1930	235	0.
1		0050	11	7.	1		0705	86	2249.	1		1320	161	0.	1		1935	236	0.
1		0055	12	8.	1		0710	87	1964.	1		1325	162	0.	1		1940	237	0.
1		0100	13	9.	1		0715	88	1710.	1		1330	163	0.	1		1945	238	0.
1		0105	14	9.	1		0720	89	1484.	1		1335	164	0.	1		1950	239	0.
1		0110	15	9.	1		0725	90	1283.	1		1340	165	0.	1		1955	240	0.
1		0115	16	10.	1		0730	91	1104.	1		1345	166	0.	1		2000	241	0.
1		0120	17	12.	1		0735	92	945.	1		1350	167	0.	1		2005	242	0.
1		0125	18	16.	1		0740	93	805.	1		1355	168	0.	1		2010	243	0.
1		0130	19	23.	1		0745	94	681.	1		1400	169	0.	1		2015	244	0.
1		0135	20	31.	1		0750	95	574.	1		1405	170	0.	1		2020	245	0.
1		0140	21	42.	1		0755	96	481.	1		1410	171	0.	1		2025	246	0.
1		0145	22	55.	1		0800	97	402.	1		1415	172	0.	1		2030	247	0.
1		0150	23	69.	1		0805	98	335.	1		1420	173	0.	1		2035	248	0.
1		0155	24	87.	1		0810	99	278.	1		1425	174	0.	1		2040	249	0.
1		0200	25	112.	1		0815	100	231.	1		1430	175	0.	1		2045	250	0.
1		0205	26	143.	1		0820	101	191.	1		1435	176	0.	1		2050	251	0.
1		0210	27	178.	1		0825	102	158.	1		1440	177	0.	1		2055	252	0.
1		0215	28	213.	1		0830	103	131.	1		1445	178	0.	1		2100	253	0.
1		0220	29	250.	1		0835	104	108.	1		1450	179	0.	1		2105	254	0.
1		0225	30	291.	1		0840	105	89.	1		1455	180	0.	1		2110	255	0.
1		0230	31	341.	1		0845	106	73.	1		1500	181	0.	1		2115	256	0.
1		0235	32	402.	1		0850	107	60.	1		1505	182	0.	1		2120	257	0.
1		0240	33	469.	1		0855	108	49.	1		1510	183	0.	1		2125	258	0.
1		0245	34	542.	1		0900	109	40.	1		1515	184	0.	1		2130	259	0.
1		0250	35	624.	1		0905	110	33.	1		1520	185	0.	1		2135	260	0.
1		0255	36	717.	1		0910	111	26.	1		1525	186	0.	1		2140	261	0.
1		0300	37	824.	1		0915	112	21.	1		1530	187	0.	1		2145	262	0.
1		0305	38	944.	1		0920	113	17.	1		1535	188	0.	1		2150	263	0.
1		0310	39	1080.	1		0925	114	13.	1		1540	189	0.	1		2155	264	0.
1		0315	40	1248.	1		0930	115	10.	1		1545	190	0.	1		2200	265	0.
1		0320	41	1449.	1		0935	116	8.	1		1550	191	0.	1		2205	266	0.
1		0325	42	1697.	1		0940	117	6.	1		1555	192	0.	1		2210	267	0.
1		0330	43	2037.	1		0945	118	5.	1		1600	193	0.	1		2215	268	0.
1		0335	44	2424.	1		0950	119	4.	1		1605	194	0.	1		2220	269	0.
1		0340	45	2706.	1		0955	120	3.	1		1610	195	0.	1		2225	270	0.
1		0345	46	2917.	1		1000	121	2.	1		1615	196	0.	1		2230	271	0.
1		0350	47	3217.	1		1005	122	2.	1		1620	197	0.	1		2235	272	0.
1		0355	48	3656.	1		1010	123	1.	1		1625	198	0.	1		2240	273	0.
1		0400	49	4161.	1		1015	124	1.	1		1630	199	0.	1		2245	274	0.
1		0405	50	4686.	1		1020	125	1.	1		1635	200	0.	1		2250	275	0.
1		0410	51	5252.	1		1025	126	0.	1		1640	201	0.	1		2255	276	0.
1		0415	52	5872.	1		1030	127	0.	1		1645	202	0.	1		2300	277	0.
1		0420	53	6533.	1		1035	128	0.	1		1650	203	0.	1		2305	278	0.
1		0425	54	7215.	1		1040	129	0.	1		1655	204	0.	1		2310	279	0.
1		0430	55	7912.	1		1045	130	0.	1		1700	205	0.	1		2315	280	0.
1		0435	56	8607.	1		1050	131	0.	1		1705	206	0.	1		2320	281	0.
1		0440	57	9261.	1		1055	132	0.	1		1710	207	0.	1		2325	282	0.
1		0445	58	9810.	1		1100	133	0.	1		1715	208	0.	1		2330	283	0.
1		0450	59	10228.	1		1105	134	0.	1		1720	209	0.	1		2335	284	0.
1		0455	60	10486.	1		1110	135	0.	1		1725	210	0.	1		2340	285	0.
1		0500	61	10536.	1		1115	136	0.	1		1730	211	0.	1		2345	286	0.
1		0505	62	10408.	1		1120	137	0.	1		1735	212	0.	1		2350	287	0.
1		0510	63	10179.	1		1125	138	0.	1		1740	213	0.	1		2355	288	0.
1		0515	64	9886.	1		1130	139	0.	1		1745	214	0.	2		0000	289	0.
1		0520	65	9549.	1		1135	140	0.	1		1750	215	0.	2		0005	290	0.
1		0525	66	9196.	1		1140	141	0.	1		1755	216	0.	2		0010	291	0.
1		0530	67	8851.	1		1145	142	0.	1		1800	217	0.	2		0015	292	0.
1		0535	68	8530.	1		1150	143	0.	1		1805	218	0.	2		0020	293	0.
1		0540	69	8245.	1		1155	144	0.	1		1810	219	0.	2		0025	294	0.
1		0545	70	8000.	1		1200	145	0.	1		1815	220	0.	2		0030	295	0.
1		0550	71	7790.	1		1205	146	0.	1		1820	221	0.	2		0035	296	0.
1		0555	72	7597.	1		1210	147	0.	1		1825	222	0.	2		0040	297	0.
1		0600	73	7395.	1		1215	148	0.	1		1830	223	0.	2		0045	298	0.
1		0605	74	7162.	1		1220	149	0.	1		1835	224	0.	2		0050	299	0.
1		0610	75	6879.	1		1225	150	0.	1		1840	225	0.	2		0055	300	0.

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 10536.	5.00	4274.	1076.	1036.	1036.
		(INCHES) .726	.731	.731	.731
		(AC-FT) 2119.	2134.	2134.	2134.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .76

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	6066.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	5700.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	5289.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	4846.	1		1245	154	0.	1		1900	229	0.
1		0020	5	0.	1		0635	80	4390.	1		1250	155	0.	1		1905	230	0.
1		0025	6	0.	1		0640	81	3936.	1		1255	156	0.	1		1910	231	0.
1		0030	7	0.	1		0645	82	3501.	1		1300	157	0.	1		1915	232	0.
1		0035	8	1.	1		0650	83	3095.	1		1305	158	0.	1		1920	233	0.
1		0040	9	2.	1		0655	84	2724.	1		1310	159	0.	1		1925	234	0.
1		0045	10	4.	1		0700	85	2390.	1		1315	160	0.	1		1930	235	0.
1		0050	11	5.	1		0705	86	2092.	1		1320	161	0.	1		1935	236	0.
1		0055	12	6.	1		0710	87	1827.	1		1325	162	0.	1		1940	237	0.
1		0100	13	7.	1		0715	88	1592.	1		1330	163	0.	1		1945	238	0.
1		0105	14	7.	1		0720	89	1382.	1		1335	164	0.	1		1950	239	0.
1		0110	15	7.	1		0725	90	1194.	1		1340	165	0.	1		1955	240	0.
1		0115	16	8.	1		0730	91	1028.	1		1345	166	0.	1		2000	241	0.
1		0120	17	9.	1		0735	92	880.	1		1350	167	0.	1		2005	242	0.
1		0125	18	12.	1		0740	93	749.	1		1355	168	0.	1		2010	243	0.
1		0130	19	16.	1		0745	94	634.	1		1400	169	0.	1		2015	244	0.
1		0135	20	22.	1		0750	95	534.	1		1405	170	0.	1		2020	245	0.
1		0140	21	30.	1		0755	96	448.	1		1410	171	0.	1		2025	246	0.
1		0145	22	38.	1		0800	97	374.	1		1415	172	0.	1		2030	247	0.
1		0150	23	47.	1		0805	98	312.	1		1420	173	0.	1		2035	248	0.
1		0155	24	60.	1		0810	99	259.	1		1425	174	0.	1		2040	249	0.
1		0200	25	78.	1		0815	100	215.	1		1430	175	0.	1		2045	250	0.
1		0205	26	102.	1		0820	101	178.	1		1435	176	0.	1		2050	251	0.
1		0210	27	129.	1		0825	102	147.	1		1440	177	0.	1		2055	252	0.
1		0215	28	156.	1		0830	103	122.	1		1445	178	0.	1		2100	253	0.
1		0220	29	185.	1		0835	104	100.	1		1450	179	0.	1		2105	254	0.
1		0225	30	218.	1		0840	105	83.	1		1455	180	0.	1		2110	255	0.
1		0230	31	259.	1		0845	106	68.	1		1500	181	0.	1		2115	256	0.
1		0235	32	309.	1		0850	107	56.	1		1505	182	0.	1		2120	257	0.
1		0240	33	365.	1		0855	108	46.	1		1510	183	0.	1		2125	258	0.
1		0245	34	429.	1		0900	109	38.	1		1515	184	0.	1		2130	259	0.
1		0250	35	500.	1		0905	110	31.	1		1520	185	0.	1		2135	260	0.
1		0255	36	582.	1		0910	111	25.	1		1525	186	0.	1		2140	261	0.
1		0300	37	675.	1		0915	112	20.	1		1530	187	0.	1		2145	262	0.
1		0305	38	782.	1		0920	113	16.	1		1535	188	0.	1		2150	263	0.
1		0310	39	904.	1		0925	114	12.	1		1540	189	0.	1		2155	264	0.
1		0315	40	1055.	1		0930	115	9.	1		1545	190	0.	1		2200	265	0.
1		0320	41	1239.	1		0935	116	7.	1		1550	191	0.	1		2205	266	0.
1		0325	42	1464.	1		0940	117	6.	1		1555	192	0.	1		2210	267	0.
1		0330	43	1774.	1		0945	118	4.	1		1600	193	0.	1		2215	268	0.
1		0335	44	2130.	1		0950	119	3.	1		1605	194	0.	1		2220	269	0.
1		0340	45	2391.	1		0955	120	3.	1		1610	195	0.	1		2225	270	0.
1		0345	46	2582.	1		1000	121	2.	1		1615	196	0.	1		2230	271	0.
1		0350	47	2859.	1		1005	122	1.	1		1620	197	0.	1		2235	272	0.
1		0355	48	3262.	1		1010	123	1.	1		1625	198	0.	1		2240	273	0.
1		0400	49	3724.	1		1015	124	1.	1		1630	199	0.	1		2245	274	0.
1		0405	50	4208.	1		1020	125	1.	1		1635	200	0.	1		2250	275	0.
1		0410	51	4729.	1		1025	126	0.	1		1640	201	0.	1		2255	276	0.
1		0415	52	5297.	1		1030	127	0.	1		1645	202	0.	1		2300	277	0.
1		0420	53	5907.	1		1035	128	0.	1		1650	203	0.	1		2305	278	0.
1		0425	54	6539.	1		1040	129	0.	1		1655	204	0.	1		2310	279	0.
1		0430	55	7181.	1		1045	130	0.	1		1700	205	0.	1		2315	280	0.
1		0435	56	7826.	1		1050	131	0.	1		1705	206	0.	1		2320	281	0.
1		0440	57	8435.	1		1055	132	0.	1		1710	207	0.	1		2325	282	0.
1		0445	58	8949.	1		1100	133	0.	1		1715	208	0.	1		2330	283	0.
1		0450	59	9344.	1		1105	134	0.	1		1720	209	0.	1		2335	284	0.
1		0455	60	9593.	1		1110	135	0.	1		1725	210	0.	1		2340	285	0.
1		0500	61	9650.	1		1115	136	0.	1		1730	211	0.	1		2345	286	0.
1		0505	62	9546.	1		1120	137	0.	1		1735	212	0.	1		2350	287	0.
1		0510	63	9344.	1		1125	138	0.	1		1740	213	0.	1		2355	288	0.
1		0515	64	9082.	1		1130	139	0.	1		1745	214	0.	2		0000	289	0.
1		0520	65	8781.	1		1135	140	0.	1		1750	215	0.	2		0005	290	0.
1		0525	66	8465.	1		1140	141	0.	1		1755	216	0.	2		0010	291	0.
1		0530	67	8156.	1		1145	142	0.	1		1800	217	0.	2		0015	292	0.

1	0535	68	7868.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.		
1	0540	69	7612.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.		
1	0545	70	7392.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.		
1	0550	71	7204.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.		
1	0555	72	7031.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.		
1	0600	73	6849.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.		
1	0605	74	6637.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.		
1	0610	75	6379.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.		
				*					*					*						

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 9650.	5.00	3905.	982.	946.	946.
		(INCHES) .663	.667	.667	.667
		(AC-FT) 1936.	1948.	1948.	1948.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .73

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	5585.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	5250.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	4874.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	4467.	1		1245	154	0.	1		1900	229	0.
1		0020	5	0.	1		0635	80	4048.	1		1250	155	0.	1		1905	230	0.
1		0025	6	0.	1		0640	81	3631.	1		1255	156	0.	1		1910	231	0.
1		0030	7	0.	1		0645	82	3231.	1		1300	157	0.	1		1915	232	0.
1		0035	8	0.	1		0650	83	2856.	1		1305	158	0.	1		1920	233	0.
1		0040	9	1.	1		0655	84	2515.	1		1310	159	0.	1		1925	234	0.
1		0045	10	2.	1		0700	85	2207.	1		1315	160	0.	1		1930	235	0.
1		0050	11	3.	1		0705	86	1932.	1		1320	161	0.	1		1935	236	0.
1		0055	12	4.	1		0710	87	1688.	1		1325	162	0.	1		1940	237	0.
1		0100	13	5.	1		0715	88	1471.	1		1330	163	0.	1		1945	238	0.
1		0105	14	5.	1		0720	89	1277.	1		1335	164	0.	1		1950	239	0.
1		0110	15	5.	1		0725	90	1104.	1		1340	165	0.	1		1955	240	0.
1		0115	16	6.	1		0730	91	950.	1		1345	166	0.	1		2000	241	0.
1		0120	17	7.	1		0735	92	813.	1		1350	167	0.	1		2005	242	0.
1		0125	18	9.	1		0740	93	693.	1		1355	168	0.	1		2010	243	0.
1		0130	19	12.	1		0745	94	587.	1		1400	169	0.	1		2015	244	0.
1		0135	20	16.	1		0750	95	494.	1		1405	170	0.	1		2020	245	0.
1		0140	21	21.	1		0755	96	414.	1		1410	171	0.	1		2025	246	0.
1		0145	22	26.	1		0800	97	346.	1		1415	172	0.	1		2030	247	0.
1		0150	23	32.	1		0805	98	288.	1		1420	173	0.	1		2035	248	0.
1		0155	24	40.	1		0810	99	240.	1		1425	174	0.	1		2040	249	0.
1		0200	25	53.	1		0815	100	199.	1		1430	175	0.	1		2045	250	0.
1		0205	26	70.	1		0820	101	165.	1		1435	176	0.	1		2050	251	0.
1		0210	27	89.	1		0825	102	136.	1		1440	177	0.	1		2055	252	0.
1		0215	28	109.	1		0830	103	113.	1		1445	178	0.	1		2100	253	0.
1		0220	29	130.	1		0835	104	93.	1		1450	179	0.	1		2105	254	0.
1		0225	30	154.	1		0840	105	77.	1		1455	180	0.	1		2110	255	0.
1		0230	31	186.	1		0845	106	63.	1		1500	181	0.	1		2115	256	0.
1		0235	32	226.	1		0850	107	52.	1		1505	182	0.	1		2120	257	0.
1		0240	33	272.	1		0855	108	42.	1		1510	183	0.	1		2125	258	0.
1		0245	34	324.	1		0900	109	35.	1		1515	184	0.	1		2130	259	0.
1		0250	35	384.	1		0905	110	28.	1		1520	185	0.	1		2135	260	0.
1		0255	36	454.	1		0910	111	23.	1		1525	186	0.	1		2140	261	0.
1		0300	37	535.	1		0915	112	18.	1		1530	187	0.	1		2145	262	0.
1		0305	38	628.	1		0920	113	14.	1		1535	188	0.	1		2150	263	0.
1		0310	39	735.	1		0925	114	11.	1		1540	189	0.	1		2155	264	0.
1		0315	40	870.	1		0930	115	9.	1		1545	190	0.	1		2200	265	0.
1		0320	41	1033.	1		0935	116	7.	1		1550	191	0.	1		2205	266	0.
1		0325	42	1235.	1		0940	117	5.	1		1555	192	0.	1		2210	267	0.
1		0330	43	1516.	1		0945	118	4.	1		1600	193	0.	1		2215	268	0.
1		0335	44	1841.	1		0950	119	3.	1		1605	194	0.	1		2220	269	0.
1		0340	45	2077.	1		0955	120	2.	1		1610	195	0.	1		2225	270	0.
1		0345	46	2252.	1		1000	121	2.	1		1615	196	0.	1		2230	271	0.
1		0350	47	2506.	1		1005	122	1.	1		1620	197	0.	1		2235	272	0.
1		0355	48	2869.	1		1010	123	1.	1		1625	198	0.	1		2240	273	0.
1		0400	49	3289.	1		1015	124	1.	1		1630	199	0.	1		2245	274	0.
1		0405	50	3729.	1		1020	125	1.	1		1635	200	0.	1		2250	275	0.
1		0410	51	4204.	1		1025	126	0.	1		1640	201	0.	1		2255	276	0.
1		0415	52	4725.	1		1030	127	0.	1		1645	202	0.	1		2300	277	0.
1		0420	53	5281.	1		1035	128	0.	1		1650	203	0.	1		2305	278	0.
1		0425	54	5858.	1		1040	129	0.	1		1655	204	0.	1		2310	279	0.
1		0430	55	6449.	1		1045	130	0.	1		1700	205	0.	1		2315	280	0.
1		0435	56	7042.	1		1050	131	0.	1		1705	206	0.	1		2320	281	0.
1		0440	57	7604.	1		1055	132	0.	1		1710	207	0.	1		2325	282	0.
1		0445	58	8083.	1		1100	133	0.	1		1715	208	0.	1		2330	283	0.
1		0450	59	8453.	1		1105	134	0.	1		1720	209	0.	1		2335	284	0.
1		0455	60	8691.	1		1110	135	0.	1		1725	210	0.	1		2340	285	0.
1		0500	61	8756.	1		1115	136	0.	1		1730	211	0.	1		2345	286	0.
1		0505	62	8670.	1		1120	137	0.	1		1735	212	0.	1		2350	287	0.

1	0510	63	8499.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.		
1	0515	64	8271.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.		
1	0520	65	8005.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.		
1	0525	66	7725.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.		
1	0530	67	7451.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.		
1	0535	68	7196.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.		
1	0540	69	6969.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.		
1	0545	70	6775.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.		
1	0550	71	6610.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.		
1	0555	72	6456.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.		
1	0600	73	6295.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.		
1	0605	74	6104.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.		
1	0610	75	5870.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.		
				*					*					*						

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 8756.	5.00	3534.	888.	856.	856.
		(INCHES) .600	.604	.604	.604
		(AC-FT) 1753.	1762.	1762.	1762.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .69

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	5227.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	4916.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	4564.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	4185.	1		1245	154	0.	1		1900	229	0.
1		0020	5	0.	1		0635	80	3793.	1		1250	155	0.	1		1905	230	0.
1		0025	6	0.	1		0640	81	3403.	1		1255	156	0.	1		1910	231	0.
1		0030	7	0.	1		0645	82	3028.	1		1300	157	0.	1		1915	232	0.
1		0035	8	0.	1		0650	83	2678.	1		1305	158	0.	1		1920	233	0.
1		0040	9	0.	1		0655	84	2358.	1		1310	159	0.	1		1925	234	0.
1		0045	10	1.	1		0700	85	2070.	1		1315	160	0.	1		1930	235	0.
1		0050	11	2.	1		0705	86	1812.	1		1320	161	0.	1		1935	236	0.
1		0055	12	3.	1		0710	87	1584.	1		1325	162	0.	1		1940	237	0.
1		0100	13	3.	1		0715	88	1380.	1		1330	163	0.	1		1945	238	0.
1		0105	14	4.	1		0720	89	1198.	1		1335	164	0.	1		1950	239	0.
1		0110	15	4.	1		0725	90	1036.	1		1340	165	0.	1		1955	240	0.
1		0115	16	5.	1		0730	91	892.	1		1345	166	0.	1		2000	241	0.
1		0120	17	6.	1		0735	92	764.	1		1350	167	0.	1		2005	242	0.
1		0125	18	7.	1		0740	93	651.	1		1355	168	0.	1		2010	243	0.
1		0130	19	10.	1		0745	94	551.	1		1400	169	0.	1		2015	244	0.
1		0135	20	13.	1		0750	95	464.	1		1405	170	0.	1		2020	245	0.
1		0140	21	17.	1		0755	96	389.	1		1410	171	0.	1		2025	246	0.
1		0145	22	21.	1		0800	97	325.	1		1415	172	0.	1		2030	247	0.
1		0150	23	24.	1		0805	98	271.	1		1420	173	0.	1		2035	248	0.
1		0155	24	30.	1		0810	99	225.	1		1425	174	0.	1		2040	249	0.
1		0200	25	39.	1		0815	100	187.	1		1430	175	0.	1		2045	250	0.
1		0205	26	51.	1		0820	101	155.	1		1435	176	0.	1		2050	251	0.
1		0210	27	66.	1		0825	102	128.	1		1440	177	0.	1		2055	252	0.
1		0215	28	81.	1		0830	103	106.	1		1445	178	0.	1		2100	253	0.
1		0220	29	96.	1		0835	104	87.	1		1450	179	0.	1		2105	254	0.
1		0225	30	115.	1		0840	105	72.	1		1455	180	0.	1		2110	255	0.
1		0230	31	140.	1		0845	106	59.	1		1500	181	0.	1		2115	256	0.
1		0235	32	172.	1		0850	107	49.	1		1505	182	0.	1		2120	257	0.
1		0240	33	210.	1		0855	108	40.	1		1510	183	0.	1		2125	258	0.
1		0245	34	254.	1		0900	109	33.	1		1515	184	0.	1		2130	259	0.
1		0250	35	306.	1		0905	110	27.	1		1520	185	0.	1		2135	260	0.
1		0255	36	366.	1		0910	111	21.	1		1525	186	0.	1		2140	261	0.
1		0300	37	438.	1		0915	112	17.	1		1530	187	0.	1		2145	262	0.
1		0305	38	520.	1		0920	113	14.	1		1535	188	0.	1		2150	263	0.
1		0310	39	617.	1		0925	114	11.	1		1540	189	0.	1		2155	264	0.
1		0315	40	739.	1		0930	115	8.	1		1545	190	0.	1		2200	265	0.
1		0320	41	887.	1		0935	116	6.	1		1550	191	0.	1		2205	266	0.
1		0325	42	1073.	1		0940	117	5.	1		1555	192	0.	1		2210	267	0.
1		0330	43	1332.	1		0945	118	4.	1		1600	193	0.	1		2215	268	0.
1		0335	44	1630.	1		0950	119	3.	1		1605	194	0.	1		2220	269	0.
1		0340	45	1850.	1		0955	120	2.	1		1610	195	0.	1		2225	270	0.
1		0345	46	2015.	1		1000	121	2.	1		1615	196	0.	1		2230	271	0.
1		0350	47	2246.	1		1005	122	1.	1		1620	197	0.	1		2235	272	0.
1		0355	48	2584.	1		1010	123	1.	1		1625	198	0.	1		2240	273	0.
1		0400	49	2973.	1		1015	124	1.	1		1630	199	0.	1		2245	274	0.
1		0405	50	3381.	1		1020	125	1.	1		1635	200	0.	1		2250	275	0.
1		0410	51	3821.	1		1025	126	0.	1		1640	201	0.	1		2255	276	0.
1		0415	52	4304.	1		1030	127	0.	1		1645	202	0.	1		2300	277	0.
1		0420	53	4820.	1		1035	128	0.	1		1650	203	0.	1		2305	278	0.
1		0425	54	5358.	1		1040	129	0.	1		1655	204	0.	1		2310	279	0.
1		0430	55	5908.	1		1045	130	0.	1		1700	205	0.	1		2315	280	0.
1		0435	56	6464.	1		1050	131	0.	1		1705	206	0.	1		2320	281	0.
1		0440	57	6992.	1		1055	132	0.	1		1710	207	0.	1		2325	282	0.

1	0445	58	7445.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.					
1	0450	59	7796.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.					
1	0455	60	8024.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.					
1	0500	61	8095.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.					
1	0505	62	8025.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.					
1	0510	63	7873.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.					
1	0515	64	7668.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.					
1	0520	65	7429.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.					
1	0525	66	7176.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.					
1	0530	67	6928.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.					
1	0535	68	6696.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.					
1	0540	69	6492.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.					
1	0545	70	6316.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.					
1	0550	71	6167.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.					
1	0555	72	6028.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.					
1	0600	73	5881.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.					
1	0605	74	5706.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.					
1	0610	75	5490.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.					

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 8095.	5.00	3262.	820.	789.	789.
		(INCHES) .554	.557	.557	.557
		(AC-FT) 1618.	1626.	1626.	1626.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .64

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1	0000		1	0.	*	1	0615		76	4577.	*	1	1230		151	0.	*	1	1845		226	0.
1	0005		2	0.	*	1	0620		77	4308.	*	1	1235		152	0.	*	1	1850		227	0.
1	0010		3	0.	*	1	0625		78	4003.	*	1	1240		153	0.	*	1	1855		228	0.
1	0015		4	0.	*	1	0630		79	3672.	*	1	1245		154	0.	*	1	1900		229	0.
1	0020		5	0.	*	1	0635		80	3330.	*	1	1250		155	0.	*	1	1905		230	0.
1	0025		6	0.	*	1	0640		81	2990.	*	1	1255		156	0.	*	1	1910		231	0.
1	0030		7	0.	*	1	0645		82	2661.	*	1	1300		157	0.	*	1	1915		232	0.
1	0035		8	0.	*	1	0650		83	2355.	*	1	1305		158	0.	*	1	1920		233	0.
1	0040		9	0.	*	1	0655		84	2074.	*	1	1310		159	0.	*	1	1925		234	0.
1	0045		10	0.	*	1	0700		85	1821.	*	1	1315		160	0.	*	1	1930		235	0.
1	0050		11	0.	*	1	0705		86	1595.	*	1	1320		161	0.	*	1	1935		236	0.
1	0055		12	1.	*	1	0710		87	1394.	*	1	1325		162	0.	*	1	1940		237	0.
1	0100		13	1.	*	1	0715		88	1216.	*	1	1330		163	0.	*	1	1945		238	0.
1	0105		14	2.	*	1	0720		89	1056.	*	1	1335		164	0.	*	1	1950		239	0.
1	0110		15	2.	*	1	0725		90	913.	*	1	1340		165	0.	*	1	1955		240	0.
1	0115		16	2.	*	1	0730		91	786.	*	1	1345		166	0.	*	1	2000		241	0.
1	0120		17	3.	*	1	0735		92	674.	*	1	1350		167	0.	*	1	2005		242	0.
1	0125		18	5.	*	1	0740		93	574.	*	1	1355		168	0.	*	1	2010		243	0.
1	0130		19	7.	*	1	0745		94	486.	*	1	1400		169	0.	*	1	2015		244	0.
1	0135		20	9.	*	1	0750		95	410.	*	1	1405		170	0.	*	1	2020		245	0.
1	0140		21	12.	*	1	0755		96	344.	*	1	1410		171	0.	*	1	2025		246	0.
1	0145		22	14.	*	1	0800		97	287.	*	1	1415		172	0.	*	1	2030		247	0.
1	0150		23	16.	*	1	0805		98	239.	*	1	1420		173	0.	*	1	2035		248	0.
1	0155		24	18.	*	1	0810		99	199.	*	1	1425		174	0.	*	1	2040		249	0.
1	0200		25	23.	*	1	0815		100	165.	*	1	1430		175	0.	*	1	2045		250	0.
1	0205		26	29.	*	1	0820		101	137.	*	1	1435		176	0.	*	1	2050		251	0.
1	0210		27	36.	*	1	0825		102	113.	*	1	1440		177	0.	*	1	2055		252	0.
1	0215		28	44.	*	1	0830		103	94.	*	1	1445		178	0.	*	1	2100		253	0.
1	0220		29	51.	*	1	0835		104	77.	*	1	1450		179	0.	*	1	2105		254	0.
1	0225		30	61.	*	1	0840		105	64.	*	1	1455		180	0.	*	1	2110		255	0.
1	0230		31	75.	*	1	0845		106	52.	*	1	1500		181	0.	*	1	2115		256	0.
1	0235		32	95.	*	1	0850		107	43.	*	1	1505		182	0.	*	1	2120		257	0.
1	0240		33	119.	*	1	0855		108	35.	*	1	1510		183	0.	*	1	2125		258	0.
1	0245		34	149.	*	1	0900		109	29.	*	1	1515		184	0.	*	1	2130		259	0.
1	0250		35	185.	*	1	0905		110	23.	*	1	1520		185	0.	*	1	2135		260	0.
1	0255		36	228.	*	1	0910		111	19.	*	1	1525		186	0.	*	1	2140		261	0.
1	0300		37	282.	*	1	0915		112	15.	*	1	1530		187	0.	*	1	2145		262	0.
1	0305		38	345.	*	1	0920		113	12.	*	1	1535		188	0.	*	1	2150		263	0.
1	0310		39	421.	*	1	0925		114	9.	*	1	1540		189	0.	*	1	2155		264	0.
1	0315		40	519.	*	1	0930		115	7.	*	1	1545		190	0.	*	1	2200		265	0.
1	0320		41	640.	*	1	0935		116	6.	*	1	1550		191	0.	*	1	2205		266	0.
1	0325		42	795.	*	1	0940		117	4.	*	1	1555		192	0.	*	1	2210		267	0.
1	0330		43	1013.	*	1	0945		118	3.	*	1	1600		193	0.	*	1	2215		268	0.
1	0335		44	1266.	*	1	0950		119	3.	*	1	1605		194	0.	*	1	2220		269	0.
1	0340		45	1457.	*	1	0955		120	2.	*	1	1610		195	0.	*	1	2225		270	0.
1	0345		46	1601.	*	1	1000		121	2.	*	1	1615		196	0.	*	1	2230		271	0.
1	0350		47	1797.	*	1	1005		122	1.	*	1	1620		197	0.	*	1	2235		272	0.
1	0355		48	2082.	*	1	1010		123	1.	*	1	1625		198	0.	*	1	2240		273	0.
1	0400		49	2414.	*	1	1015		124	1.	*	1	1630		199	0.	*	1	2245		274	0.
1	0405		50	2764.	*	1	1020		125	0.	*	1	1635		200	0.	*	1	2250		275	0.
1	0410		51	3140.	*	1	1025		126	0.	*	1	1640		201	0.	*	1	2255		276	0.
1	0415		52	3556.	*	1	1030		127	0.	*	1	1645		202	0.	*	1	2300		277	0.

1	0420	53	4002.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.					
1	0425	54	4469.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.					
1	0430	55	4949.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.					
1	0435	56	5434.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.					
1	0440	57	5898.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.					
1	0445	58	6301.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.					
1	0450	59	6619.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.					
1	0455	60	6833.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.					
1	0500	61	6909.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.					
1	0505	62	6865.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.					
1	0510	63	6747.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.					
1	0515	64	6585.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.					
1	0520	65	6393.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.					
1	0525	66	6188.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.					
1	0530	67	5985.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.					
1	0535	68	5798.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.					
1	0540	69	5630.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.					
1	0545	70	5488.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.					
1	0550	71	5367.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.					
1	0555	72	5254.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.					
1	0600	73	5133.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.					
1	0605	74	4987.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.					
1	0610	75	4803.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.					

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 6909.	5.00	2777.	697.	672.	672.
		(INCHES) .472	.474	.474	.474
		(AC-FT) 1377.	1383.	1383.	1383.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .58

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1	0000		1	0.	*	1	0615		76	3881.	*	1	1230		151	0.	*	1	1845		226	0.
1	0005		2	0.	*	1	0620		77	3656.	*	1	1235		152	0.	*	1	1850		227	0.
1	0010		3	0.	*	1	0625		78	3400.	*	1	1240		153	0.	*	1	1855		228	0.
1	0015		4	0.	*	1	0630		79	3123.	*	1	1245		154	0.	*	1	1900		229	0.
1	0020		5	0.	*	1	0635		80	2834.	*	1	1250		155	0.	*	1	1905		230	0.
1	0025		6	0.	*	1	0640		81	2545.	*	1	1255		156	0.	*	1	1910		231	0.
1	0030		7	0.	*	1	0645		82	2267.	*	1	1300		157	0.	*	1	1915		232	0.
1	0035		8	0.	*	1	0650		83	2007.	*	1	1305		158	0.	*	1	1920		233	0.
1	0040		9	0.	*	1	0655		84	1769.	*	1	1310		159	0.	*	1	1925		234	0.
1	0045		10	0.	*	1	0700		85	1554.	*	1	1315		160	0.	*	1	1930		235	0.
1	0050		11	0.	*	1	0705		86	1362.	*	1	1320		161	0.	*	1	1935		236	0.
1	0055		12	0.	*	1	0710		87	1191.	*	1	1325		162	0.	*	1	1940		237	0.
1	0100		13	0.	*	1	0715		88	1039.	*	1	1330		163	0.	*	1	1945		238	0.
1	0105		14	0.	*	1	0720		89	903.	*	1	1335		164	0.	*	1	1950		239	0.
1	0110		15	0.	*	1	0725		90	781.	*	1	1340		165	0.	*	1	1955		240	0.
1	0115		16	1.	*	1	0730		91	673.	*	1	1345		166	0.	*	1	2000		241	0.
1	0120		17	1.	*	1	0735		92	577.	*	1	1350		167	0.	*	1	2005		242	0.
1	0125		18	2.	*	1	0740		93	491.	*	1	1355		168	0.	*	1	2010		243	0.
1	0130		19	3.	*	1	0745		94	416.	*	1	1400		169	0.	*	1	2015		244	0.
1	0135		20	5.	*	1	0750		95	351.	*	1	1405		170	0.	*	1	2020		245	0.
1	0140		21	7.	*	1	0755		96	294.	*	1	1410		171	0.	*	1	2025		246	0.
1	0145		22	9.	*	1	0800		97	246.	*	1	1415		172	0.	*	1	2030		247	0.
1	0150		23	10.	*	1	0805		98	205.	*	1	1420		173	0.	*	1	2035		248	0.
1	0155		24	11.	*	1	0810		99	171.	*	1	1425		174	0.	*	1	2040		249	0.
1	0200		25	14.	*	1	0815		100	142.	*	1	1430		175	0.	*	1	2045		250	0.
1	0205		26	17.	*	1	0820		101	117.	*	1	1435		176	0.	*	1	2050		251	0.
1	0210		27	19.	*	1	0825		102	97.	*	1	1440		177	0.	*	1	2055		252	0.
1	0215		28	21.	*	1	0830		103	80.	*	1	1445		178	0.	*	1	2100		253	0.
1	0220		29	23.	*	1	0835		104	66.	*	1	1450		179	0.	*	1	2105		254	0.
1	0225		30	26.	*	1	0840		105	55.	*	1	1455		180	0.	*	1	2110		255	0.
1	0230		31	32.	*	1	0845		106	45.	*	1	1500		181	0.	*	1	2115		256	0.
1	0235		32	40.	*	1	0850		107	37.	*	1	1505		182	0.	*	1	2120		257	0.
1	0240		33	52.	*	1	0855		108	30.	*	1	1510		183	0.	*	1	2125		258	0.
1	0245		34	68.	*	1	0900		109	25.	*	1	1515		184	0.	*	1	2130		259	0.
1	0250		35	89.	*	1	0905		110	20.	*	1	1520		185	0.	*	1	2135		260	0.
1	0255		36	116.	*	1	0910		111	16.	*	1	1525		186	0.	*	1	2140		261	0.
1	0300		37	151.	*	1	0915		112	13.	*	1	1530		187	0.	*	1	2145		262	0.
1	0305		38	193.	*	1	0920		113	10.	*	1	1535		188	0.	*	1	2150		263	0.
1	0310		39	246.	*	1	0925		114	8.	*	1	1540		189	0.	*	1	2155		264	0.
1	0315		40	318.	*	1	0930		115	6.	*	1	1545		190	0.	*	1	2200		265	0.
1	0320		41	410.	*	1	0935		116	5.	*	1	1550		191	0.	*	1	2205		266	0.
1	0325		42	530.	*	1	0940		117	4.	*	1	1555		192	0.	*	1	2210		267	0.
1	0330		43	704.	*	1	0945		118	3.	*	1	1600		193	0.	*	1	2215		268	0.
1	0335		44	911.	*	1	0950		119	2.	*	1	1605		194	0.	*	1	2220		269	0.
1	0340		45	1069.	*	1	0955		120	2.	*	1	1610		195	0.	*	1	2225		270	0.
1	0345		46	1186.	*	1	1000		121	1.	*	1	1615		196	0.	*	1	2230		271	0.
1	0350		47	1342.	*	1	1005		122	1.	*	1	1620		197	0.	*	1	2235		272	0.

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0355	48	1572.	1		1010	123	1.	1		1625	198	0.	1		2240	273	0.
1		0400	49	1843.	1		1015	124	1.	1		1630	199	0.	1		2245	274	0.
1		0405	50	2130.	1		1020	125	0.	1		1635	200	0.	1		2250	275	0.
1		0410	51	2444.	1		1025	126	0.	1		1640	201	0.	1		2255	276	0.
1		0415	52	2785.	1		1030	127	0.	1		1645	202	0.	1		2300	277	0.
1		0420	53	3156.	1		1035	128	0.	1		1650	203	0.	1		2305	278	0.
1		0425	54	3545.	1		1040	129	0.	1		1655	204	0.	1		2310	279	0.
1		0430	55	3948.	1		1045	130	0.	1		1700	205	0.	1		2315	280	0.
1		0435	56	4359.	1		1050	131	0.	1		1705	206	0.	1		2320	281	0.
1		0440	57	4755.	1		1055	132	0.	1		1710	207	0.	1		2325	282	0.
1		0445	58	5103.	1		1100	133	0.	1		1715	208	0.	1		2330	283	0.
1		0450	59	5383.	1		1105	134	0.	1		1720	209	0.	1		2335	284	0.
1		0455	60	5578.	1		1110	135	0.	1		1725	210	0.	1		2340	285	0.
1		0500	61	5660.	1		1115	136	0.	1		1730	211	0.	1		2345	286	0.
1		0505	62	5640.	1		1120	137	0.	1		1735	212	0.	1		2350	287	0.
1		0510	63	5560.	1		1125	138	0.	1		1740	213	0.	1		2355	288	0.
1		0515	64	5440.	1		1130	139	0.	1		1745	214	0.	2		0000	289	0.
1		0520	65	5296.	1		1135	140	0.	1		1750	215	0.	2		0005	290	0.
1		0525	66	5140.	1		1140	141	0.	1		1755	216	0.	2		0010	291	0.
1		0530	67	4985.	1		1145	142	0.	1		1800	217	0.	2		0015	292	0.
1		0535	68	4841.	1		1150	143	0.	1		1805	218	0.	2		0020	293	0.
1		0540	69	4713.	1		1155	144	0.	1		1810	219	0.	2		0025	294	0.
1		0545	70	4605.	1		1200	145	0.	1		1815	220	0.	2		0030	295	0.
1		0550	71	4513.	1		1205	146	0.	1		1820	221	0.	2		0035	296	0.
1		0555	72	4428.	1		1210	147	0.	1		1825	222	0.	2		0040	297	0.
1		0600	73	4334.	1		1215	148	0.	1		1830	223	0.	2		0045	298	0.
1		0605	74	4217.	1		1220	149	0.	1		1835	224	0.	2		0050	299	0.
1		0610	75	4068.	1		1225	150	0.	1		1840	225	0.	2		0055	300	0.

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)				
		(CFS)			
5660.	5.00	2273.	570.	549.	549.
		(INCHES) .386	.387	.387	.387
		(AC-FT) 1127.	1131.	1131.	1131.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .53

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	3313.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	3125.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	2910.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	2674.	1		1245	154	0.	1		1900	229	0.
1		0020	5	0.	1		0635	80	2428.	1		1250	155	0.	1		1905	230	0.
1		0025	6	0.	1		0640	81	2183.	1		1255	156	0.	1		1910	231	0.
1		0030	7	0.	1		0645	82	1946.	1		1300	157	0.	1		1915	232	0.
1		0035	8	0.	1		0650	83	1723.	1		1305	158	0.	1		1920	233	0.
1		0040	9	0.	1		0655	84	1519.	1		1310	159	0.	1		1925	234	0.
1		0045	10	0.	1		0700	85	1335.	1		1315	160	0.	1		1930	235	0.
1		0050	11	0.	1		0705	86	1171.	1		1320	161	0.	1		1935	236	0.
1		0055	12	0.	1		0710	87	1024.	1		1325	162	0.	1		1940	237	0.
1		0100	13	0.	1		0715	88	894.	1		1330	163	0.	1		1945	238	0.
1		0105	14	0.	1		0720	89	777.	1		1335	164	0.	1		1950	239	0.
1		0110	15	0.	1		0725	90	673.	1		1340	165	0.	1		1955	240	0.
1		0115	16	0.	1		0730	91	580.	1		1345	166	0.	2		2000	241	0.
1		0120	17	0.	1		0735	92	497.	1		1350	167	0.	2		2005	242	0.
1		0125	18	0.	1		0740	93	424.	1		1355	168	0.	2		2010	243	0.
1		0130	19	1.	1		0745	94	359.	1		1400	169	0.	2		2015	244	0.
1		0135	20	2.	1		0750	95	303.	1		1405	170	0.	2		2020	245	0.
1		0140	21	3.	1		0755	96	254.	1		1410	171	0.	2		2025	246	0.
1		0145	22	5.	1		0800	97	213.	1		1415	172	0.	2		2030	247	0.
1		0150	23	6.	1		0805	98	177.	1		1420	173	0.	2		2035	248	0.
1		0155	24	7.	1		0810	99	147.	1		1425	174	0.	2		2040	249	0.
1		0200	25	9.	1		0815	100	122.	1		1430	175	0.	2		2045	250	0.
1		0205	26	11.	1		0820	101	101.	1		1435	176	0.	2		2050	251	0.
1		0210	27	12.	1		0825	102	84.	1		1440	177	0.	2		2055	252	0.
1		0215	28	13.	1		0830	103	69.	1		1445	178	0.	2		2100	253	0.
1		0220	29	12.	1		0835	104	57.	1		1450	179	0.	2		2105	254	0.
1		0225	30	12.	1		0840	105	47.	1		1455	180	0.	2		2110	255	0.
1		0230	31	13.	1		0845	106	39.	1		1500	181	0.	2		2115	256	0.
1		0235	32	16.	1		0850	107	32.	1		1505	182	0.	2		2120	257	0.
1		0240	33	21.	1		0855	108	26.	1		1510	183	0.	2		2125	258	0.
1		0245	34	28.	1		0900	109	21.	1		1515	184	0.	2		2130	259	0.
1		0250	35	39.	1		0905	110	17.	1		1520	185	0.	2		2135	260	0.
1		0255	36	54.	1		0910	111	14.	1		1525	186	0.	2		2140	261	0.
1		0300	37	75.	1		0915	112	11.	1		1530	187	0.	2		2145	262	0.
1		0305	38	103.	1		0920	113	9.	1		1535	188	0.	2		2150	263	0.
1		0310	39	139.	1		0925	114	7.	1		1540	189	0.	2		2155	264	0.
1		0315	40	189.	1		0930	115	5.	1		1545	190	0.	2		2200	265	0.
1		0320	41	255.	1		0935	116	4.	1		1550	191	0.	2		2205	266	0.
1		0325	42	346.	1		0940	117	3.	1		1555	192	0.	2		2210	267	0.

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0330	43	484.	1		0945	118	2.	1		1600	193	0.	1		2215	268	0.
1		0335	44	648.	1		0950	119	2.	1		1605	194	0.	1		2220	269	0.
1		0340	45	779.	1		0955	120	1.	1		1610	195	0.	1		2225	270	0.
1		0345	46	878.	1		1000	121	1.	1		1615	196	0.	1		2230	271	0.
1		0350	47	1001.	1		1005	122	1.	1		1620	197	0.	1		2235	272	0.
1		0355	48	1184.	1		1010	123	1.	1		1625	198	0.	1		2240	273	0.
1		0400	49	1406.	1		1015	124	0.	1		1630	199	0.	1		2245	274	0.
1		0405	50	1643.	1		1020	125	0.	1		1635	200	0.	1		2250	275	0.
1		0410	51	1900.	1		1025	126	0.	1		1640	201	0.	1		2255	276	0.
1		0415	52	2184.	1		1030	127	0.	1		1645	202	0.	1		2300	277	0.
1		0420	53	2492.	1		1035	128	0.	1		1650	203	0.	1		2305	278	0.
1		0425	54	2818.	1		1040	129	0.	1		1655	204	0.	1		2310	279	0.
1		0430	55	3159.	1		1045	130	0.	1		1700	205	0.	1		2315	280	0.
1		0435	56	3508.	1		1050	131	0.	1		1705	206	0.	1		2320	281	0.
1		0440	57	3849.	1		1055	132	0.	1		1710	207	0.	1		2325	282	0.
1		0445	58	4151.	1		1100	133	0.	1		1715	208	0.	1		2330	283	0.
1		0450	59	4400.	1		1105	134	0.	1		1720	209	0.	1		2335	284	0.
1		0455	60	4577.	1		1110	135	0.	1		1725	210	0.	1		2340	285	0.
1		0500	61	4661.	1		1115	136	0.	1		1730	211	0.	1		2345	286	0.
1		0505	62	4662.	1		1120	137	0.	1		1735	212	0.	1		2350	287	0.
1		0510	63	4608.	1		1125	138	0.	1		1740	213	0.	1		2355	288	0.
1		0515	64	4521.	1		1130	139	0.	1		1745	214	0.	2		0000	289	0.
1		0520	65	4414.	1		1135	140	0.	1		1750	215	0.	2		0005	290	0.
1		0525	66	4296.	1		1140	141	0.	1		1755	216	0.	2		0010	291	0.
1		0530	67	4178.	1		1145	142	0.	1		1800	217	0.	2		0015	292	0.
1		0535	68	4069.	1		1150	143	0.	1		1805	218	0.	2		0020	293	0.
1		0540	69	3972.	1		1155	144	0.	1		1810	219	0.	2		0025	294	0.
1		0545	70	3890.	1		1200	145	0.	1		1815	220	0.	2		0030	295	0.
1		0550	71	3822.	1		1205	146	0.	1		1820	221	0.	2		0035	296	0.
1		0555	72	3757.	1		1210	147	0.	1		1825	222	0.	2		0040	297	0.
1		0600	73	3684.	1		1215	148	0.	1		1830	223	0.	2		0045	298	0.
1		0605	74	3591.	1		1220	149	0.	1		1835	224	0.	2		0050	299	0.
1		0610	75	3469.	1		1225	150	0.	1		1840	225	0.	2		0055	300	0.

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)				
		(CFS)			
4662.	5.08	1875.	470.	453.	453.
		(INCHES) .319	.319	.319	.319
		(AC-FT) 930.	932.	932.	932.

CUMULATIVE AREA = 54.73 SQ MI

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227 KK     **************
           *            *
           *     RRDB   *
           *            *
           **************

240 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          1  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL          0.  HYDROGRAPH PLOT SCALE

               HYDROGRAPH ROUTING DATA

241 RS          STORAGE ROUTING
                     NSTPS          1  NUMBER OF SUBREACHES
                      ITYP       STOR  TYPE OF INITIAL CONDITION
                     RSVRIC      -1.00  INITIAL CONDITION
                         X        .00 WORKING R AND D COEFFICIENT

242 SV            STORAGE         .0      9.0     107.0     231.0     372.0     529.0     705.0     903.0    1125.0    1376.0
                                1659.0   1974.0    2007.0    2115.0    2331.0    2690.0    2933.0

244 SQ          DISCHARGE         0.      10.       57.       80.       99.      114.      128.      140.      151.      162.
                                171.     181.      182.     8654.    33270.   110918.   163477.

246 SE          ELEVATION      3161.00   3162.00   3167.00   3172.00   3177.00   3182.00   3187.00   3192.00   3197.00   3202.00
                               3207.00   3212.00   3212.50   3214.00   3217.00   3222.00   3225.00
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HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .83

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	3161.0	1		0820	101	303.	2008.5	3212.5	1		1640	201	178.	1890.2	3210.7
1		0005	2	0.	.0	3161.0	1		0825	102	252.	2007.9	3212.5	1		1645	202	178.	1889.0	3210.7
1		0010	3	0.	.0	3161.0	1		0830	103	209.	2007.3	3212.5	1		1650	203	178.	1887.7	3210.6

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| | | |

+ (AC-FT)	(HR)				
1883.	8.33	1856.	1462.	1408.	1408.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3210.56	8.33	3210.13	3201.06	3199.58	3199.58

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .73

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	3161.0	1		0820	101	172.	1700.5	3207.7	1		1640	201	169.	1588.7	3205.8
1		0005	2	0.	.0	3161.0	1		0825	102	172.	1700.4	3207.7	1		1645	202	169.	1587.5	3205.7
1		0010	3	0.	.0	3161.0	1		0830	103	172.	1700.1	3207.7	1		1650	203	169.	1586.4	3205.7
1		0015	4	0.	.0	3161.0	1		0835	104	172.	1699.6	3207.6	1		1655	204	169.	1585.2	3205.7
1		0020	5	0.	.0	3161.0	1		0840	105	172.	1699.0	3207.6	1		1700	205	169.	1584.1	3205.7
1		0025	6	0.	.0	3161.0	1		0845	106	172.	1698.3	3207.6	1		1705	206	169.	1582.9	3205.7
1		0030	7	0.	.0	3161.0	1		0850	107	172.	1697.5	3207.6	1		1710	207	169.	1581.7	3205.6
1		0035	8	0.	.0	3161.0	1		0855	108	172.	1696.6	3207.6	1		1715	208	169.	1580.6	3205.6
1		0040	9	0.	.0	3161.0	1		0900	109	172.	1695.7	3207.6	1		1720	209	168.	1579.4	3205.6
1		0045	10	0.	.0	3161.0	1		0905	110	172.	1694.7	3207.6	1		1725	210	168.	1578.3	3205.6
1		0050	11	0.	.0	3161.0	1		0910	111	172.	1693.7	3207.6	1		1730	211	168.	1577.1	3205.6
1		0055	12	0.	.1	3161.0	1		0915	112	172.	1692.7	3207.5	1		1735	212	168.	1575.9	3205.5
1		0100	13	0.	.1	3161.0	1		0920	113	172.	1691.6	3207.5	1		1740	213	168.	1574.8	3205.5
1		0105	14	0.	.1	3161.0	1		0925	114	172.	1690.5	3207.5	1		1745	214	168.	1573.6	3205.5
1		0110	15	0.	.1	3161.0	1		0930	115	172.	1689.4	3207.5	1		1750	215	168.	1572.5	3205.5
1		0115	16	0.	.2	3161.0	1		0935	116	172.	1688.3	3207.5	1		1755	216	168.	1571.3	3205.5
1		0120	17	0.	.2	3161.0	1		0940	117	172.	1687.1	3207.4	1		1800	217	168.	1570.1	3205.4
1		0125	18	0.	.3	3161.0	1		0945	118	172.	1686.0	3207.4	1		1805	218	168.	1569.0	3205.4
1		0130	19	0.	.4	3161.0	1		0950	119	172.	1684.8	3207.4	1		1810	219	168.	1567.8	3205.4
1		0135	20	0.	.4	3161.0	1		0955	120	172.	1683.6	3207.4	1		1815	220	168.	1566.7	3205.4
1		0140	21	1.	.6	3161.1	1		1000	121	172.	1682.5	3207.4	1		1820	221	168.	1565.5	3205.3
1		0145	22	1.	.7	3161.1	1		1005	122	172.	1681.3	3207.4	1		1825	222	168.	1564.4	3205.3
1		0150	23	1.	.9	3161.1	1		1010	123	172.	1680.1	3207.3	1		1830	223	168.	1563.2	3205.3
1		0155	24	1.	1.2	3161.1	1		1015	124	172.	1678.9	3207.3	1		1835	224	168.	1562.0	3205.3
1		0200	25	2.	1.5	3161.2	1		1020	125	172.	1677.8	3207.3	1		1840	225	168.	1560.9	3205.3
1		0205	26	2.	1.9	3161.2	1		1025	126	172.	1676.6	3207.3	1		1845	226	168.	1559.7	3205.2
1		0210	27	3.	2.4	3161.3	1		1030	127	172.	1675.4	3207.3	1		1850	227	168.	1558.6	3205.2
1		0215	28	3.	3.1	3161.3	1		1035	128	171.	1674.2	3207.2	1		1855	228	168.	1557.4	3205.2
1		0220	29	4.	3.9	3161.4	1		1040	129	171.	1673.1	3207.2	1		1900	229	168.	1556.3	3205.2
1		0225	30	5.	4.8	3161.5	1		1045	130	171.	1671.9	3207.2	1		1905	230	168.	1555.1	3205.2
1		0230	31	7.	5.9	3161.7	1		1050	131	171.	1670.7	3207.2	1		1910	231	168.	1554.0	3205.1
1		0235	32	8.	7.3	3161.8	1		1055	132	171.	1669.5	3207.2	1		1915	232	168.	1552.8	3205.1
1		0240	33	10.	9.0	3162.0	1		1100	133	171.	1668.3	3207.1	1		1920	233	168.	1551.6	3205.1
1		0245	34	11.	10.9	3162.1	1		1105	134	171.	1667.2	3207.1	1		1925	234	168.	1550.5	3205.1
1		0250	35	12.	13.3	3162.2	1		1110	135	171.	1666.0	3207.1	1		1930	235	168.	1549.3	3205.1
1		0255	36	13.	16.1	3162.4	1		1115	136	171.	1664.8	3207.1	1		1935	236	167.	1548.2	3205.0
1		0300	37	15.	19.4	3162.5	1		1120	137	171.	1663.6	3207.1	1		1940	237	167.	1547.0	3205.0
1		0305	38	17.	23.3	3162.7	1		1125	138	171.	1662.4	3207.1	1		1945	238	167.	1545.9	3205.0
1		0310	39	19.	27.9	3163.0	1		1130	139	171.	1661.3	3207.0	1		1950	239	167.	1544.7	3205.0
1		0315	40	22.	33.3	3163.2	1		1135	140	171.	1660.1	3207.0	1		1955	240	167.	1543.6	3205.0
1		0320	41	25.	39.7	3163.6	1		1140	141	171.	1658.9	3207.0	1		2000	241	167.	1542.4	3204.9
1		0325	42	28.	47.3	3164.0	1		1145	142	171.	1657.7	3207.0	1		2005	242	167.	1541.3	3204.9
1		0330	43	33.	56.5	3164.4	1		1150	143	171.	1656.6	3207.0	1		2010	243	167.	1540.1	3204.9
1		0335	44	38.	67.9	3165.0	1		1155	144	171.	1655.4	3206.9	1		2015	244	167.	1539.0	3204.9
1		0340	45	45.	81.1	3165.7	1		1200	145	171.	1654.2	3206.9	1		2020	245	167.	1537.8	3204.9
1		0345	46	52.	95.6	3166.4	1		1205	146	171.	1653.0	3206.9	1		2025	246	167.	1536.7	3204.8
1		0350	47	58.	111.6	3167.2	1		1210	147	171.	1651.8	3206.9	1		2030	247	167.	1535.5	3204.8
1		0355	48	61.	129.7	3167.9	1		1215	148	171.	1650.7	3206.9	1		2035	248	167.	1534.4	3204.8
1		0400	49	65.	150.5	3168.8	1		1220	149	171.	1649.5	3206.8	1		2040	249	167.	1533.2	3204.8
1		0405	50	69.	174.2	3169.7	1		1225	150	171.	1648.3	3206.8	1		2045	250	167.	1532.1	3204.8
1		0410	51	74.	201.0	3170.8	1		1230	151	171.	1647.1	3206.8	1		2050	251	167.	1530.9	3204.7
1		0415	52	80.	231.2	3172.0	1		1235	152	171.	1646.0	3206.8	1		2055	252	167.	1529.8	3204.7
1		0420	53	85.	265.1	3173.2	1		1240	153	171.	1644.8	3206.7	1		2100	253	167.	1528.6	3204.7
1		0425	54	90.	302.9	3174.5	1		1245	154	171.	1643.6	3206.7	1		2105	254	167.	1527.5	3204.7
1		0430	55	95.	344.6	3176.0	1		1250	155	170.	1642.4	3206.7	1		2110	255	167.	1526.3	3204.7
1		0435	56	101.	390.4	3177.6	1		1255	156	170.	1641.3	3206.7	1		2115	256	167.	1525.2	3204.6
1		0440	57	106.	440.1	3179.2	1		1300	157	170.	1640.1	3206.7	1		2120	257	167.	1524.0	3204.6
1		0445	58	111.	493.4	3180.9	1		1305	158	170.	1638.9	3206.6	1		2125	258	167.	1522.9	3204.6
1		0450	59	116.	549.6	3182.6	1		1310	159	170.	1637.7	3206.6	1		2130	259	167.	1521.7	3204.6
1		0455	60	120.	607.8	3184.2	1		1315	160	170.	1636.6	3206.6	1		2135	260	167.	1520.6	3204.6
1		0500	61	125.	667.0	3185.9	1		1320	161	170.	1635.4	3206.6	1		2140	261	167.	1519.4	3204.5
1		0505	62	129.	726.2	3187.5	1		1325	162	170.	1634.2	3206.6	1		2145	262	167.	1518.3	3204.5
1		0510	63	133.	784.4	3189.0	1		1330	163	170.	1633.1	3206.5	1		2150	263	166.	1517.1	3204.5
1		0515	64	136.	841.2	3190.4	1		1335	164	170.	1631.9	3206.5	1		2155	264	166.	1516.0	3204.5
1		0520	65	140.	896.3	3191.8	1		1340	165	170.	1630.7	3206.5	1		2200	265	166.	1514.8	3204.5
1		0525	66	142.	949.5	3193.0	1		1345	166	170.	1629.5	3206.5	1		2205	266	166.	1513.7	3204.4
1		0530	67	145.	1000.8	3194.2	1		1350	167	170.	1628.4	3206.5	1		2210	267	166.	1512.5	3204.4
1		0535	68	147.	1050.2	3195.3	1		1355	168	170.	1627.2	3206.4	1		2215	268	166.	1511.4	3204.4
1		0540	69	150.	1098.0	3196.4	1		1400	169	170.	1626.0	3206.4	1		2220	269	166.	1510.3	3204.4
1		0545	70	152.	1144.3	3197.4	1		1405	170	170.	1624.9	3206.4	1		2225	270	166.	1509.1	3204.4
1		0550	71	154.	1189.3	3198.3	1		1410	171	170.	1623.7	3206.4	1		2230	271	166.	1508.0	3204.3
1		0555	72	156.	1233.2	3199.2	1		1415	172	170.	1622.5	3206.4	1		2235	272	166.	1506.8	3204.3
1		0600	73	158.	1276.0	3200.0	1		1420	173	170.	1621.4	3206.3	1		2240	273	166.	1505.7	3204.3
1		0605	74	159.	1317.7	3200.8	1		1425	174	170.	1620.2	3206.3	1		2245	274	166.	1504.5	3204.3
1		0610	75	161.	1357.8	3201.6	1		1430	175	170.	1619.0	3206.3	1		2250	275	166.	1503.4	3204.3
1		0615	76	163.	1396.1	3202.4	1		1435	176	170.	1617.8	3206.3	1		2255	276	166.	1502.2	3204.2
1		0620	77	164.	1432.3	3203.0	1		1440	177	170.	1616.7	3206.3	1		2300	277	166.	1501.1	3204.2
1		0625	78	165.	1466.0	3203.6	1		1445	178	170.	1615.5	3206.2	1		2305	278	166.	1500.0	3204.2
1		0630	79	166.	1497.1	3204.1	1		1450	179	170.	1614.3	3206.2	1		2310	279	166.	1498.8	3204.2
1		0635	80	167.	1525.2	3204.6	1		1455	180	170.	1613.2	3206.2	1		2315	280	166.	1497.7	3204.1
1		0640	81	168.	1550.5	3205.1	1		1500	181	170.	1612.0	3206.2	1		2320	281	166.	1496.5	3204.1
1		0645	82	168.	1573.0	3205.5	1		1505	182	169.	1610.8	3206.1	1		2325	282	166.	1495.4	3204.1
1		0650	83	169.	1592.8	3205.8	1		1510	183	169.	1609.7	3206.1	1		2330	283	166.	1494.3	3204.1
1		0655	84	169.	1610.1	3206.1	1		1515	184	169.	1608.5	3206.1	1		2335	284	166.	1493.1	3204.1
1		0700	85	170.	1625.2	3206.4	1		1520	185	169.	1607.3	3206.1	1		2340	285	166.	1492.0	3204.0
1		0705	86	170.	1638.3	3206.6	1		1525	186	169.	1606.2	3206.1	1		2345	286	166.	1490.8	3204.0
1		0710	87	171.	1649.6	3206.8	1		1530	187	169.	1605.0	3206.0	1		2350	287	166.	1489.7	3204.0
1		0715	88	171.	1659.3	3207.0	1		1535	188	169.	1603.8	3206.0	1		2355	288	166.	1488.5	3204.0
1		0720	89	171.	1667.6	3207.1	1		1540	189	169.	1602.7	3206.0	2		0000	289	166.	1487.4	3204.0
1		0725	90	171.	1674.6	3207.2	1		1545	190	169.	1601.5	3206.0	2		0005	290	166.	1486.3	3203.9
1		0730	91	172.	1680.5	3207.3	1		1550	191	169.	1600.3	3206.0	2		0010	291	165.	1485.1	3203.9
1		0735	92	172.	1685.4	3207.4	1		1555	192	169.	1599.2	3205.9	2		0015	292	165.	1484.0	3203.9
1		0740	93	172.	1689.4	3207.5	1		1600	193	169.	1598.0	3205.9	2		0020	293	165.	1482.8	3203.9
1		0745	94	172.	1692.6	3207.5	1		1605	194	169.	1596.9	3205.9	2		0025	294	165.	1481.7	3203.9
1		0750	95	172.	1695.1	3207.6	1		1610	195	169.	1595.7	3205.9	2		0030	295	165.	1480.6	3203.8
1		0755	96	172.	1697.1	3207.6	1		1615	196	169.	1594.5	3205.9	2		0035	296	165.	1479.4	3203.8
1		0800	97	172.	1698.5	3207.6	1		1620	197	169.	1593.4	3205.8	2		0040	297	165.	1478.3	3203.8
1		0805	98	172.	1699.5	3207.6	1		1625	198	169.	1592.2	3205.8	2		0045	298	165.	1477.2	3203.8
1		0810	99	172.	1700.1	3207.7	1		1630	199	169.	1591.0	3205.8	2		0050	299	165.	1476.0	3203.8
1		0815	100	172.	1700.5	3207.7	1		1635	200	169.	1589.9	3205.8	2		0055	300	165.	1474.9	3203.7

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
172.	8.33	171.	145.	140.	140.
	(CFS)				
	(INCHES)	.029	.098	.098	.098
	(AC-FT)	85.	287.	287.	287.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
1701.	8.33	1675.	1313.	1265.	1265.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3207.66	8.33	3207.24	3198.50	3197.12	3197.12

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .69

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	3161.0	1		0820	101	168.	1566.4	3205.4	1		1640	201	165.	1457.1	3203.4
1		0005	2	0.	.0	3161.0	1		0825	102	168.	1566.2	3205.4	1		1645	202	165.	1456.0	3203.4
1		0010	3	0.	.0	3161.0	1		0830	103	168.	1565.8	3205.4	1		1650	203	165.	1454.8	3203.4
1		0015	4	0.	.0	3161.0	1		0835	104	168.	1565.3	3205.3	1		1655	204	164.	1453.7	3203.4
1		0020	5	0.	.0	3161.0	1		0840	105	168.	1564.7	3205.3	1		1700	205	164.	1452.6	3203.4
1		0025	6	0.	.0	3161.0	1		0845	106	168.	1564.0	3205.3	1		1705	206	164.	1451.4	3203.3
1		0030	7	0.	.0	3161.0	1		0850	107	168.	1563.2	3205.3	1		1710	207	164.	1450.3	3203.3
1		0035	8	0.	.0	3161.0	1		0855	108	168.	1562.4	3205.3	1		1715	208	164.	1449.2	3203.3
1		0040	9	0.	.0	3161.0	1		0900	109	168.	1561.5	3205.3	1		1720	209	164.	1448.0	3203.3
1		0045	10	0.	.0	3161.0	1		0905	110	168.	1560.5	3205.3	1		1725	210	164.	1446.9	3203.3
1		0050	11	0.	.0	3161.0	1		0910	111	168.	1559.5	3205.2	1		1730	211	164.	1445.8	3203.2
1		0055	12	0.	.0	3161.0	1		0915	112	168.	1558.5	3205.2	1		1735	212	164.	1444.7	3203.2
1		0100	13	0.	.0	3161.0	1		0920	113	168.	1557.5	3205.2	1		1740	213	164.	1443.5	3203.2
1		0105	14	0.	.1	3161.0	1		0925	114	168.	1556.4	3205.2	1		1745	214	164.	1442.4	3203.2
1		0110	15	0.	.1	3161.0	1		0930	115	168.	1555.3	3205.2	1		1750	215	164.	1441.3	3203.2
1		0115	16	0.	.1	3161.0	1		0935	116	168.	1554.2	3205.1	1		1755	216	164.	1440.1	3203.1
1		0120	17	0.	.2	3161.0	1		0940	117	168.	1553.1	3205.1	1		1800	217	164.	1439.0	3203.1
1		0125	18	0.	.2	3161.0	1		0945	118	168.	1552.0	3205.1	1		1805	218	164.	1437.9	3203.1
1		0130	19	0.	.3	3161.0	1		0950	119	168.	1550.8	3205.1	1		1810	219	164.	1436.7	3203.1
1		0135	20	0.	.3	3161.0	1		0955	120	168.	1549.7	3205.1	1		1815	220	164.	1435.6	3203.1
1		0140	21	0.	.4	3161.0	1		1000	121	167.	1548.5	3205.0	1		1820	221	164.	1434.5	3203.0
1		0145	22	1.	.6	3161.1	1		1005	122	167.	1547.4	3205.0	1		1825	222	164.	1433.4	3203.0
1		0150	23	1.	.7	3161.1	1		1010	123	167.	1546.3	3205.0	1		1830	223	164.	1432.2	3203.0
1		0155	24	1.	.9	3161.1	1		1015	124	167.	1545.1	3205.0	1		1835	224	164.	1431.1	3203.0
1		0200	25	1.	1.1	3161.1	1		1020	125	167.	1544.0	3205.0	1		1840	225	164.	1430.0	3203.0
1		0205	26	2.	1.4	3161.2	1		1025	126	167.	1542.8	3204.9	1		1845	226	164.	1428.8	3202.9
1		0210	27	2.	1.8	3161.2	1		1030	127	167.	1541.7	3204.9	1		1850	227	164.	1427.7	3202.9
1		0215	28	3.	2.3	3161.3	1		1035	128	167.	1540.5	3204.9	1		1855	228	164.	1426.6	3202.9
1		0220	29	3.	2.9	3161.3	1		1040	129	167.	1539.4	3204.9	1		1900	229	164.	1425.5	3202.9
1		0225	30	4.	3.6	3161.4	1		1045	130	167.	1538.2	3204.9	1		1905	230	164.	1424.3	3202.9
1		0230	31	5.	4.4	3161.5	1		1050	131	167.	1537.1	3204.8	1		1910	231	164.	1423.2	3202.8
1		0235	32	6.	5.5	3161.6	1		1055	132	167.	1535.9	3204.8	1		1915	232	163.	1422.1	3202.8
1		0240	33	8.	6.8	3161.8	1		1100	133	167.	1534.8	3204.8	1		1920	233	163.	1421.0	3202.8
1		0245	34	9.	8.3	3161.9	1		1105	134	167.	1533.6	3204.8	1		1925	234	163.	1419.8	3202.8
1		0250	35	11.	10.2	3162.1	1		1110	135	167.	1532.5	3204.8	1		1930	235	163.	1418.7	3202.8

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1	0730	91	159.	1312.8	3200.7	*	1	1550	191	156.	1235.1	3199.2	*	2	0010	291	151.	1129.3	3197.1
1	0735	92	159.	1316.7	3200.8	*	1	1555	192	156.	1234.0	3199.2	*	2	0015	292	151.	1128.3	3197.1
1	0740	93	160.	1319.9	3200.9	*	1	1600	193	156.	1232.9	3199.1	*	2	0020	293	151.	1127.3	3197.0
1	0745	94	160.	1322.5	3200.9	*	1	1605	194	156.	1231.8	3199.1	*	2	0025	294	151.	1126.2	3197.0
1	0750	95	160.	1324.5	3201.0	*	1	1610	195	156.	1230.8	3199.1	*	2	0030	295	151.	1125.2	3197.0
1	0755	96	160.	1326.0	3201.0	*	1	1615	196	156.	1229.7	3199.1	*	2	0035	296	151.	1124.1	3197.0
1	0800	97	160.	1327.0	3201.0	*	1	1620	197	156.	1228.6	3199.1	*	2	0040	297	151.	1123.1	3197.0
1	0805	98	160.	1327.7	3201.0	*	1	1625	198	155.	1227.5	3199.0	*	2	0045	298	151.	1122.1	3196.9
1	0810	99	160.	1328.1	3201.0	*	1	1630	199	155.	1226.5	3199.0	*	2	0050	299	151.	1121.0	3196.9
1	0815	100	160.	1328.3	3201.0	*	1	1635	200	155.	1225.4	3199.0	*	2	0055	300	151.	1120.0	3196.9
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PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
	(CFS)				
+ 160.	8.25	159.	133.	128.	128.
	(INCHES)	.027	.090	.090	.090
	(AC-FT)	79.	263.	263.	263.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
1328.	8.25	1304.	1012.	974.	974.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3201.05	8.25	3200.57	3192.73	3191.56	3191.56

CUMULATIVE AREA = 54.73 SQ MI

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HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .58

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DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000		1	0.	.0	3161.0	1	0820		101	149.	1081.5	3196.0	1	1640		201	144.	984.6	3193.8
1	0005		2	0.	.0	3161.0	1	0825		102	149.	1081.2	3196.0	1	1645		202	144.	983.6	3193.8
1	0010		3	0.	.0	3161.0	1	0830		103	149.	1080.8	3196.0	1	1650		203	144.	982.6	3193.8
1	0015		4	0.	.0	3161.0	1	0835		104	149.	1080.2	3196.0	1	1655		204	144.	981.6	3193.8
1	0020		5	0.	.0	3161.0	1	0840		105	149.	1079.6	3196.0	1	1700		205	144.	980.6	3193.7
1	0025		6	0.	.0	3161.0	1	0845		106	149.	1078.9	3196.0	1	1705		206	144.	979.6	3193.7
1	0030		7	0.	.0	3161.0	1	0850		107	149.	1078.2	3195.9	1	1710		207	144.	978.7	3193.7
1	0035		8	0.	.0	3161.0	1	0855		108	149.	1077.4	3195.9	1	1715		208	144.	977.7	3193.7
1	0040		9	0.	.0	3161.0	1	0900		109	149.	1076.6	3195.9	1	1720		209	144.	976.7	3193.7
1	0045		10	0.	.0	3161.0	1	0905		110	149.	1075.7	3195.9	1	1725		210	144.	975.7	3193.6
1	0050		11	0.	.0	3161.0	1	0910		111	149.	1074.8	3195.9	1	1730		211	144.	974.7	3193.6
1	0055		12	0.	.0	3161.0	1	0915		112	148.	1073.9	3195.8	1	1735		212	144.	973.7	3193.6
1	0100		13	0.	.0	3161.0	1	0920		113	148.	1073.0	3195.8	1	1740		213	143.	972.7	3193.6
1	0105		14	0.	.0	3161.0	1	0925		114	148.	1072.0	3195.8	1	1745		214	143.	971.7	3193.5
1	0110		15	0.	.0	3161.0	1	0930		115	148.	1071.0	3195.8	1	1750		215	143.	970.7	3193.5
1	0115		16	0.	.0	3161.0	1	0935		116	148.	1070.0	3195.8	1	1755		216	143.	969.8	3193.5
1	0120		17	0.	.0	3161.0	1	0940		117	148.	1069.0	3195.7	1	1800		217	143.	968.8	3193.5
1	0125		18	0.	.0	3161.0	1	0945		118	148.	1068.0	3195.7	1	1805		218	143.	967.8	3193.5
1	0130		19	0.	.0	3161.0	1	0950		119	148.	1067.0	3195.7	1	1810		219	143.	966.8	3193.4
1	0135		20	0.	.1	3161.0	1	0955		120	148.	1066.0	3195.7	1	1815		220	143.	965.8	3193.4
1	0140		21	0.	.1	3161.0	1	1000		121	148.	1065.0	3195.6	1	1820		221	143.	964.8	3193.4
1	0145		22	0.	.2	3161.0	1	1005		122	148.	1064.0	3195.6	1	1825		222	143.	963.8	3193.4
1	0150		23	0.	.2	3161.0	1	1010		123	148.	1063.0	3195.6	1	1830		223	143.	962.9	3193.3
1	0155		24	0.	.3	3161.0	1	1015		124	148.	1062.0	3195.6	1	1835		224	143.	961.9	3193.3
1	0200		25	0.	.4	3161.0	1	1020		125	148.	1061.0	3195.6	1	1840		225	143.	960.9	3193.3
1	0205		26	1.	.5	3161.1	1	1025		126	148.	1060.0	3195.5	1	1845		226	143.	959.9	3193.3
1	0210		27	1.	.6	3161.1	1	1030		127	148.	1058.9	3195.5	1	1850		227	143.	958.9	3193.3
1	0215		28	1.	.7	3161.1	1	1035		128	148.	1057.9	3195.5	1	1855		228	143.	957.9	3193.2
1	0220		29	1.	.9	3161.1	1	1040		129	148.	1056.9	3195.5	1	1900		229	143.	957.0	3193.2
1	0225		30	1.	1.0	3161.1	1	1045		130	148.	1055.9	3195.4	1	1905		230	143.	956.0	3193.2
1	0230		31	1.	1.2	3161.1	1	1050		131	148.	1054.9	3195.4	1	1910		231	143.	955.0	3193.2
1	0235		32	2.	1.5	3161.2	1	1055		132	147.	1053.9	3195.4	1	1915		232	143.	954.0	3193.1
1	0240		33	2.	1.8	3161.2	1	1100		133	147.	1052.8	3195.4	1	1920		233	142.	953.0	3193.1
1	0245		34	2.	2.2	3161.2	1	1105		134	147.	1051.8	3195.4	1	1925		234	142.	952.0	3193.1
1	0250		35	3.	2.7	3161.3	1	1110		135	147.	1050.8	3195.3	1	1930		235	142.	951.1	3193.1
1	0255		36	4.	3.4	3161.4	1	1115		136	147.	1049.8	3195.3	1	1935		236	142.	950.1	3193.1
1	0300		37	5.	4.3	3161.5	1	1120		137	147.	1048.8	3195.3	1	1940		237	142.	949.1	3193.0
1	0305		38	6.	5.4	3161.6	1	1125		138	147.	1047.8	3195.3	1	1945		238	142.	948.1	3193.0
1	0310		39	8.	6.9	3161.8	1	1130		139	147.	1046.8	3195.2	1	1950		239	142.	947.1	3193.0
1	0315		40	10.	8.8	3162.0	1	1135		140	147.	1045.8	3195.2	1	1955		240	142.	946.2	3193.0
1	0320		41	11.	11.2	3162.1	1	1140		141	147.	1044.7	3195.2	1	2000		241	142.	945.2	3193.0
1	0325		42	13.	14.4	3162.3	1	1145		142	147.	1043.7	3195.2	1	2005		242	142.	944.2	3192.9
1	0330		43	15.	18.5	3162.5	1	1150		143	147.	1042.7	3195.1	1	2010		243	142.	943.2	3192.9
1	0335		44	17.	24.0	3162.8	1	1155		144	147.	1041.7	3195.1	1	2015		244	142.	942.3	3192.9
1	0340		45	20.	30.7	3163.1	1	1200		145	147.	1040.7	3195.1	1	2020		245	142.	941.3	3192.9
1	0345		46	24.	38.3	3163.5	1	1205		146	147.	1039.7	3195.1	1	2025		246	142.	940.3	3192.8
1	0350		47	28.	46.8	3163.9	1	1210		147	147.	1038.7	3195.1	1	2030		247	142.	939.3	3192.8
1	0355		48	33.	56.6	3164.4	1	1215		148	147.	1037.7	3195.0	1	2035		248	142.	938.3	3192.8
1	0400		49	38.	68.1	3165.0	1	1220		149	147.	1036.6	3195.0	1	2040		249	142.	937.4	3192.8
1	0405		50	45.	81.5	3165.7	1	1225		150	147.	1035.6	3195.0	1	2045		250	142.	936.4	3192.8
1	0410		51	52.	96.9	3166.5	1	1230		151	147.	1034.6	3195.0	1	2050		251	142.	935.4	3192.7
1	0415		52	58.	114.6	3167.3	1	1235		152	146.	1033.6	3194.9	1	2055		252	142.	934.4	3192.7
1	0420		53	62.	134.6	3168.1	1	1240		153	146.	1032.6	3194.9	1	2100		253	142.	933.5	3192.7
1	0425		54	66.	157.2	3169.0	1	1245		154	146.	1031.6	3194.9	1	2105		254	141.	932.5	3192.7
1	0430		55	71.	182.6	3170.0	1	1250		155	146.	1030.6	3194.9	1	2110		255	141.	931.5	3192.6
1	0435		56	76.	210.7	3171.2	1	1255		156	146.	1029.6	3194.9	1	2115		256	141.	930.5	3192.6
1	0440		57	81.	241.5	3172.4	1	1300		157	146.	1028.6	3194.8	1	2120		257	141.	929.6	3192.6
1	0445		58	86.	274.9	3173.6	1	1305		158	146.	1027.6	3194.8	1	2125		258	141.	928.6	3192.6
1	0450		59	91.	310.4	3174.8	1	1310		159	146.	1026.6	3194.8	1	2130		259	141.	927.6	3192.6
1	0455		60	96.	347.5	3176.1	1	1315		160	146.	1025.6	3194.8	1	2135		260	141.	926.7	3192.5
1	0500		61	100.	385.5	3177.4	1	1320		161	146.	1024.6	3194.7	1	2140		261	141.	925.7	3192.5
1	0505		62	104.	423.7	3178.6	1	1325		162	146.	1023.6	3194.7	1	2145		262	141.	924.7	3192.5
1	0510		63	108.	461.6	3179.9	1	1330		163	146.	1022.5	3194.7	1	2150		263	141.	923.7	3192.5
1	0515		64	111.	498.7	3181.0	1	1335		164	146.	1021.5	3194.7	1	2155		264	141.	922.8	3192.4
1	0520		65	114.	534.9	3182.2	1	1340		165	146.	1020.5	3194.6	1	2200		265	141.	921.8	3192.4
1	0525		66	117.	570.0	3183.2	1	1345		166	146.	1019.5	3194.6	1	2205		266	141.	920.8	3192.4
1	0530		67	120.	604.1	3184.1	1	1350		167	146.	1018.5	3194.6	1	2210		267	141.	919.9	3192.4
1	0535		68	123.	637.1	3185.1	1	1355		168	146.	1017.5	3194.6	1	2215		268	141.	918.9	3192.4
1	0540		69	125.	669.1	3186.0	1	1400		169	146.	1016.5	3194.6	1	2220		269	141.	917.9	3192.3
1	0545		70	128.	700.3	3186.9	1	1405		170	146.	1015.5	3194.5	1	2225		270	141.	917.0	3192.3
1	0550		71	130.	730.8	3187.7	1	1410		171	146.	1014.5	3194.5	1	2230		271	141.	916.0	3192.3
1	0555		72	131.	760.7	3188.4	1	1415		172	145.	1013.5	3194.5	1	2235		272	141.	915.0	3192.3
1	0600		73	133.	790.0	3189.1	1	1420		173	145.	1012.5	3194.5	1	2240		273	141.	914.0	3192.2
1	0605		74	135.	818.5	3189.9	1	1425		174	145.	1011.5	3194.4	1	2245		274	140.	913.1	3192.2
1	0610		75	137.	846.1	3190.6	1	1430		175	145.	1010.5	3194.4	1	2250		275	140.	912.1	3192.2
1	0615		76	138.	872.5	3191.2	1	1435		176	145.	1009.5	3194.4	1	2255		276	140.	911.1	3192.2
1	0620		77	140.	897.5	3191.9	1	1440		177	145.	1008.5	3194.4	1	2300		277	140.	910.2	3192.2
1	0625		78	141.	920.9	3192.4	1	1445		178	145.	1007.5	3194.4	1	2305		278	140.	909.2	3192.1
1	0630		79	142.	942.3	3192.9	1	1450		179	145.	1006.5	3194.3	1	2310		279	140.	908.2	3192.1
1	0635		80	143.	961.9	3193.3	1	1455		180	145.	1005.5	3194.3	1	2315		280	140.	907.3	3192.1
1	0640		81	144.	979.4	3193.7	1	1500		181	145.	1004.5	3194.3	1	2320		281	140.	906.3	3192.1
1	0645		82	145.	995.0	3194.1	1	1505		182	145.	1003.5	3194.3	1	2325		282	140.	905.3	3192.1
1	0650		83	145.	1008.7	3194.4	1	1510		183	145.	1002.5	3194.2	1	2330		283	140.	904.4	3192.0
1	0655		84	146.	1020.7	3194.7	1	1515		184	145.	1001.5	3194.2	1	2335		284	140.	903.4	3192.0
1	0700		85	146.	1031.1	3194.9	1	1520		185	145.	1000.5	3194.2	1	2340		285	140.	902.5	3192.0
1	0705		86	147.	1040.2	3195.1	1	1525		186	145.	999.5	3194.2	1	2345		286	140.	901.5	3192.0
1	0710		87	147.	1048.0	3195.3	1	1530		187	145.	998.5	3194.2	1	2350		287	140.	900.5	3191.9
1	0715		88	148.	1054.6	3195.4	1	1535		188	145.	997.5	3194.1	1	2355		288	140.	899.6	3191.9
1	0720		89	148.	1060.3	3195.5	1	1540		189	145.	996.5	3194.1	2	0000		289	140.	898.6	3191.9
1	0725		90	148.	1065.1	3195.7	1	1545		190	145.	995.5	3194.1	2	0005		290	140.	897.6	3191.9
1	0730		91	148.	1069.1	3195.7	1	1550		191	145.	994.5	3194.1	2	0010		291	140.	896.7	3191.8
1	0735		92	148.	1072.3	3195.8	1	1555		192	144.	993.5	3194.0	2	0015		292	140.	895.7	3191.8
1	0740		93	149.	1075.0	3195.9	1	1600		193	144.	992.6	3194.0	2	0020		293	140.	894.8	3191.8
1	0745		94	149.	1077.1	3195.9	1	1605		194	144.	991.6	3194.0	2	0025		294	139.	893.8	3191.8
1	0750		95	149.	1078.7	3196.0	1	1610		195	144.	990.6	3194.0	2	0030		295	139.	892.8	3191.7
1	0755		96	149.	1079.9	3196.0	1	1615		196	144.	989.6	3193.9	2	0035		296	139.	891.9	3191.7
1	0800		97	149.	1080.7	3196.0	1	1620		197	144.	988.6	3193.9	2	0040		297	139.	890.9	3191.7
1	0805		98	149.	1081.3	3196.0	1	1625		198	144.	987.6	3193.9	2	0045		298	139.	890.0	3191.7
1	0810		99	149.	1081.5	3196.0	1	1630		199	144.	986.6	3193.9	2	0050		299	139.	889.0	3191.6
1	0815		100	149.	1081.6	3196.0	1	1635		200	144.	985.6	3193.9	2	0055		300	139.	888.0	3191.6
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PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
	(CFS)				
+ 149.	8.25	148.	122.	118.	118.
	(INCHES)	.025	.083	.083	.083
	(AC-FT)	73.	243.	243.	243.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
1082.	8.25	1059.	813.	784.	784.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3196.02	8.25	3195.52	3188.38	3187.37	3187.37

CUMULATIVE AREA = 54.73 SQ MI

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HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .53

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DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000		1	0.	.0	3161.0	1	0820		101	139.	887.5	3191.6	1	1640		201	134.	797.1	3189.3
1	0005		2	0.	.0	3161.0	1	0825		102	139.	887.2	3191.6	1	1645		202	134.	796.2	3189.3
1	0010		3	0.	.0	3161.0	1	0830		103	139.	886.8	3191.6	1	1650		203	133.	795.2	3189.3
1	0015		4	0.	.0	3161.0	1	0835		104	139.	886.2	3191.6	1	1655		204	133.	794.3	3189.3
1	0020		5	0.	.0	3161.0	1	0840		105	139.	885.6	3191.6	1	1700		205	133.	793.4	3189.2
1	0025		6	0.	.0	3161.0	1	0845		106	139.	885.0	3191.5	1	1705		206	133.	792.5	3189.2
1	0030		7	0.	.0	3161.0	1	0850		107	139.	884.3	3191.5	1	1710		207	133.	791.6	3189.2
1	0035		8	0.	.0	3161.0	1	0855		108	139.	883.5	3191.5	1	1715		208	133.	790.7	3189.2
1	0040		9	0.	.0	3161.0	1	0900		109	139.	882.7	3191.5	1	1720		209	133.	789.7	3189.1
1	0045		10	0.	.0	3161.0	1	0905		110	139.	881.9	3191.5	1	1725		210	133.	788.8	3189.1
1	0050		11	0.	.0	3161.0	1	0910		111	139.	881.1	3191.4	1	1730		211	133.	787.9	3189.1
1	0055		12	0.	.0	3161.0	1	0915		112	139.	880.2	3191.4	1	1735		212	133.	787.0	3189.1

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				TIME	5.00	5.00	5.00	5.00	5.08	5.08	5.08	5.08
HYDROGRAPH AT												
+	RD1	.43	1	FLOW	168.	157.	144.	130.	119.	101.	82.	66.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
ROUTED TO												
+	R-RD1	.43	1	FLOW	162.	152.	138.	124.	113.	96.	78.	66.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT												
+	RD2	.47	1	FLOW	243.	231.	214.	197.	185.	162.	137.	117.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT												
+	CRD2	.90	1	FLOW	389.	368.	338.	308.	285.	245.	203.	169.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
ROUTED TO												
+	RCRD2	.90	1	FLOW	376.	356.	327.	298.	275.	237.	199.	166.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT												
+	RD3	.33	1	FLOW	155.	147.	136.	125.	116.	101.	85.	71.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT												
+	CRD3	1.23	1	FLOW	513.	483.	443.	404.	374.	320.	269.	225.
				TIME	3.58	3.58	3.58	3.58	3.58	3.67	3.67	3.67
HYDROGRAPH AT												
+	RR14A	4.60	1	FLOW	1074.	1011.	924.	837.	773.	657.	536.	439.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
ROUTED TO												
+	R-RR14A	4.60	1	FLOW	1071.	1008.	921.	833.	770.	655.	534.	439.
				TIME	4.17	4.17	4.17	4.17	4.17	4.25	4.25	4.25
HYDROGRAPH AT												
+	RD4	.40	1	FLOW	147.	138.	125.	112.	103.	86.	68.	54.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT												
+	CRD4	5.00	1	FLOW	1108.	1042.	952.	862.	797.	675.	550.	452.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.25	4.25
ROUTED TO												
+	RCRD4	5.00	1	FLOW	1105.	1040.	948.	859.	794.	675.	551.	451.
				TIME	4.17	4.17	4.17	4.17	4.25	4.25	4.25	4.25
HYDROGRAPH AT												
+	RD5	.37	1	FLOW	138.	130.	118.	106.	97.	82.	66.	53.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT												
+	CRD5	5.37	1	FLOW	1136.	1069.	975.	884.	816.	692.	565.	463.
				TIME	4.17	4.17	4.17	4.17	4.17	4.25	4.25	4.25
ROUTED TO												
+	RCRD5	5.37	1	FLOW	1133.	1065.	972.	882.	815.	691.	562.	462.
				TIME	4.17	4.25	4.25	4.25	4.25	4.25	4.25	4.33
HYDROGRAPH AT												
+	RD6	.25	1	FLOW	118.	112.	103.	94.	88.	76.	64.	54.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT												
+	CRD6	5.62	1	FLOW	1158.	1087.	992.	900.	832.	706.	575.	472.
				TIME	4.17	4.17	4.17	4.25	4.25	4.25	4.25	4.33
3 COMBINED AT												
+	INRR	54.73	1	FLOW	11179.	10536.	9650.	8756.	8095.	6909.	5660.	4662.
				TIME	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.08
ROUTED TO												
+	RRDB	54.73	1	FLOW	3003.	1234.	178.	172.	168.	160.	149.	139.
				TIME	6.92	7.42	8.33	8.33	8.25	8.25	8.25	8.17
				** PEAK STAGES IN FEET **								
			1	STAGE	3213.00	3212.69	3210.56	3207.66	3205.36	3201.05	3196.02	3191.61
				TIME	6.92	7.42	8.33	8.33	8.33	8.25	8.25	8.17
DIVERSION TO												
+	*D-RROUT	54.73	1	FLOW	2821.	1052.	0.	0.	0.	0.	0.	0.
				TIME	6.92	7.42	.00	.00	.00	.00	.00	.00
HYDROGRAPH AT												
+	*DOUTRR	54.73	1	FLOW	182.	182.	178.	172.	168.	160.	149.	139.
				TIME	6.67	7.25	8.33	8.33	8.25	8.25	8.25	8.17
ROUTED TO												
+	ROUTRR	54.73	1	FLOW	182.	182.	178.	172.	168.	160.	149.	139.
				TIME	6.83	7.33	8.42	8.33	8.33	8.33	8.25	8.25

HYDROGRAPH AT											
+	R3A	.19	1	FLOW	60.	56.	51.	45.	41.	33.	25.	20.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.58
2 COMBINED AT												
+	CR3A	54.92	1	FLOW	182.	182.	178.	172.	168.	160.	149.	139.
				TIME	6.83	7.33	8.42	8.33	8.33	8.33	8.25	8.25
ROUTED TO												
+	RCR3A	54.92	1	FLOW	182.	182.	178.	172.	168.	160.	149.	139.
				TIME	6.92	7.42	8.50	8.50	8.42	8.42	8.42	8.33

1

*** NORMAL END OF HEC-1 ***

B.3.7 10-year_RED_ROCK_TRAILS

```
1****************************************
 *                                      *
 *   FLOOD HYDROGRAPH PACKAGE  (HEC-1)  *
 *              JUN   1998              *
 *            VERSION 4.1               *
 *                                      *
 *  RUN DATE   28JUL20  TIME  08:59:19  *
 *                                      *
 ****************************************
```

```
****************************************
*                                      *
*    U.S. ARMY CORPS OF ENGINEERS      *
*    HYDROLOGIC ENGINEERING CENTER     *
*          609 SECOND STREET           *
*       DAVIS, CALIFORNIA 95616        *
*            (916) 756-1104            *
*                                      *
****************************************
```

```
X     X  XXXXXXX   XXXXX          X
X     X  X        X     X        XX
X     X  X        X              X
XXXXXXX  XXXX     X        XXXXX  X
X     X  X        X              X
X     X  X        X     X        X
X     X  XXXXXXX   XXXXX         XXX
```

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL   LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

1 HEC-1 INPUT PAGE 1

```
          LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10
                        *DIAGRAM
 *** FREE ***
               1        ID   RED ROCK TRAIL TO FY19-87
               2        ID   US FEDERAL HIGHWAY ADMINISTRATION
               3        ID   PN WXXY4000
               4        ID
               5        ID   FLAMINGO / TROPICANA WASHES WATERSHED
               6        ID   INPUT FILE = RED_ROCK_TRAILS_10YR.DAT
               7        ID   INPUT FILE DATE = JULY 2020
               8        ID   PRECIPITATION VALUES TAKEN FROM NOAA ATLAS 2 &
               9        ID   ADJUSTED PER CCRFCD HYDRAULIC CRITERIA & DRAINAGE DESIGN MANUAL TABLE 501
              10        ID   DESIGN STORM = 10-YEAR, 6-HOUR STORM
              11        ID   STORM DISTRIBUTION = SDN3
              12        ID     MODELED BY JACOBS/CH2M (JAMES MONROE AND CESAR BRAMBILA)
              13        ID
              14        ID     JR CARDS CONTAIN DARFS BASED ON THE FOLLOWING VALUES:
              15        ID
              16        ID     AREA (SQUARE MILES)    DARF
              17        ID
              18        ID           0.5 - 1              0.975
              19        ID           4 - 5                0.908
              20        ID
              21        ID
              22        IT       5       0       0     550
              23        IO       5       0       0
              24        IN       5       0       0
              25        JR    PREC   0.975   0.908
                        *
              26        KK   SUB-A
              27        BA   4.567
              28        PB    2.17
              29        PC   0.000   0.020   0.057   0.070   0.087   0.108   0.124   0.130   0.130   0.130
              30        PC   0.130   0.130   0.130   0.133   0.140   0.142   0.148   0.158   0.172   0.181
              31        PC   0.190   0.197   0.199   0.200   0.201   0.204   0.214   0.229   0.241   0.249
              32        PC   0.251   0.256   0.270   0.278   0.281   0.283   0.295   0.322   0.352   0.409
              33        PC   0.499   0.590   0.710   0.744   0.781   0.812   0.819   0.835   0.851   0.856
              34        PC   0.860   0.868   0.876   0.888   0.910   0.926   0.937   0.950   0.970   0.976
              35        PC   0.982   0.985   0.987   0.989   0.990   0.993   0.993   0.994   0.995   0.998
              36        PC   0.998   0.999   1.000
              37        LS       0    87.3
              38        UD   1.043
                        *
              39        KK   SUB-B
              40        BA   0.675
              41        PB    1.98
              42        LS       0    85.0
              43        UD   0.435
                        *
              44        ZZ
```

1 SCHEMATIC DIAGRAM OF STREAM NETWORK

```
 INPUT
  LINE      (V) ROUTING          (--->) DIVERSION OR PUMP FLOW
```

```
  NO.      (.) CONNECTOR        (<---) RETURN OF DIVERTED OR PUMPED FLOW

   26       SUB-A
               .
               .
   39          .       SUB-B

 (***) RUNOFF ALSO COMPUTED AT THIS LOCATION
```

```
1****************************************
 *                                      *
 *   FLOOD HYDROGRAPH PACKAGE  (HEC-1)  *
 *              JUN   1998              *
 *            VERSION 4.1               *
 *                                      *
 *  RUN DATE   28JUL20  TIME  08:50:19  *
 *                                      *
 ****************************************
```

```
****************************************
*                                      *
*    U.S. ARMY CORPS OF ENGINEERS      *
*    HYDROLOGIC ENGINEERING CENTER     *
*          609 SECOND STREET           *
*       DAVIS, CALIFORNIA 95616        *
*            (916) 756-1104            *
*                                      *
****************************************
```

RED ROCK TRAIL TO FY19-87
US FEDERAL HIGHWAY ADMINISTRATION
PN WXXY4000

FLAMINGO / TROPICANA WASHES WATERSHED
INPUT FILE = RED_ROCK_TRAILS_10YR.DAT
INPUT FILE DATE = JULY 2020
PRECIPITATION VALUES TAKEN FROM NOAA ATLAS 2 &
ADJUSTED PER CCRFCD HYDRAULIC CRITERIA & DRAINAGE DESIGN MANUAL TABLE 501
DESIGN STORM = 10-YEAR, 6-HOUR STORM
STORM DISTRIBUTION = SDN3
  MODELED BY JACOBS/CH2M (JAMES MONROE AND CESAR BRAMBILA)

  JR CARDS CONTAIN DARFS BASED ON THE FOLLOWING VALUES:

  AREA (SQUARE MILES)   DARF

        0.5 - 1   0.975
        4 - 5   0.908

```
23 IO          OUTPUT CONTROL VARIABLES
                     IPRNT          5  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL          0.  HYDROGRAPH PLOT SCALE

 IT          HYDROGRAPH TIME DATA
                      NMIN          5  MINUTES IN COMPUTATION INTERVAL
                     IDATE      1   0  STARTING DATE
                     ITIME       0000  STARTING TIME
                        NQ        550  NUMBER OF HYDROGRAPH ORDINATES
                     NDDATE     2   0  ENDING DATE
                     NDTIME       2145  ENDING TIME
                     ICENT         19  CENTURY MARK

                   COMPUTATION INTERVAL     .08 HOURS
                      TOTAL TIME BASE   45.75 HOURS

                ENGLISH UNITS
                     DRAINAGE AREA         SQUARE MILES
                     PRECIPITATION DEPTH   INCHES
                     LENGTH, ELEVATION     FEET
                     FLOW                  CUBIC FEET PER SECOND
                     STORAGE VOLUME        ACRE-FEET
                     SURFACE AREA          ACRES
                     TEMPERATURE           DEGREES FAHRENHEIT

 JP          MULTI-PLAN OPTION
                     NPLAN          1  NUMBER OF PLANS

 JR          MULTI-RATIO OPTION
                 RATIOS OF PRECIPITATION
                 .98       .91
```

1 PEAK FLOW AND STAGE (END-OF-PERIOD) SUMMARY FOR MULTIPLE PLAN-RATIO ECONOMIC COMPUTATIONS
FLOWS IN CUBIC FEET PER SECOND, AREA IN SQUARE MILES
TIME TO PEAK IN HOURS

```
                                                                  RATIOS APPLIED TO PRECIPITATION
 OPERATION       STATION     AREA    PLAN           RATIO 1  RATIO 2
                                                       .98      .91

 HYDROGRAPH AT
+                 SUB-A      4.57     1   FLOW        1411.    1252.
                                           TIME        4.58     4.58

 HYDROGRAPH AT
+                 SUB-B       .68     1   FLOW         270.     236.
                                           TIME        3.92     3.92
```

B.3.7 10-YEAR_RED_ROCK_TRAILS

```
1****************************************
 *                                      *
 *   FLOOD HYDROGRAPH PACKAGE  (HEC-1)  *
 *              JUN   1998              *
 *            VERSION 4.1               *
 *                                      *
 *  RUN DATE   20MAY20  TIME  09:44:02  *
 *                                      *
 ****************************************
```

```
****************************************
*                                      *
*    U.S. ARMY CORPS OF ENGINEERS      *
*    HYDROLOGIC ENGINEERING CENTER     *
*         609 SECOND STREET            *
*       DAVIS, CALIFORNIA 95616        *
*            (916) 756-1104            *
*                                      *
****************************************
```

```
X     X  XXXXXXX   XXXXX           X
X     X  X        X     X         XX
X     X  X        X               X
XXXXXXX  XXXX     X        XXXXX  X
X     X  X        X               X
X     X  X        X     X         X
X     X  XXXXXXX   XXXXX          XXX
```

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL   LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM


```
          LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

                    *DIAGRAM
 *** FREE ***
               1    ID   RED ROCK TRAIL TO FY19-87
               2    ID   US FEDERAL HIGHWAY ADMINISTRATION
               3    ID   PN WXXY4000
               4    ID
               5    ID   HEC-1 MODEL TAKEN FROM CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT (CCRFCD)
               6    ID   2018 MASTER PLAN UPDATE
               7    ID   FLAMINGO / TROPICANA WASHES WATERSHED
               8    ID   RECOMMENDED DRAINAGE SYSTEM WITH ULTIMATE DEVELOPMENT
               9    ID   INPUT FILE = FLAM3A.DAT
              10    ID   INPUT FILE DATE = MAY 2020
              11    ID   PRECIPITATION VALUES TAKEN FROM NOAA ATLAS 2 &
              12    ID   ADJUSTED PER CCRFCD HYDRAULIC CRITERIA & DRAINAGE DESIGN MANUAL TABLE 501
              13    ID   DESIGN STORM = 50-YEAR, 6-HOUR STORM
              14    ID   STORM DISTRIBUTION = SDN3
              15    ID   STORM CENTERING = SERIES A: REGIONAL DETENTION BASIN FLOWS NOT DIVERTED OUT
              16    ID   MODELED BY JACOBS (DAVE BERGH, PE)
              17    ID
              18    ID   JR CARDS CONTAIN DARFS BASED ON THE FOLLOWING VALUES:
              19    ID
              20    ID         AREA    DARF
              21    ID         SQ.MI.
              22    ID                 SDN 3   SDN 4   SDN 5
              23    ID         0 - 0.5 0.990
              24    ID         0.5 - 1 0.975
              25    ID         1 - 2   0.950
              26    ID         2 - 3   0.925
              27    ID         3 - 4   0.915
              28    ID         4 - 5   0.908
              29    ID         5 - 6   0.903
              30    ID         6 - 7   0.895
              31    ID         7 - 8   0.885
              32    ID         8 - 9           0.875
              33    ID         9 - 10          0.865
              34    ID         10 - 11         0.857
              35    ID         11 - 12         0.850
              36    ID         12 - 16                 0.832
              37    ID         16 - 20                 0.804
              38    ID         20 - 30                 0.765
              39    ID         30 - 40                 0.725
              40    ID         40 - 50                 0.695
              41    ID         50 - 100                0.640
              42    ID         100 - 150               0.580
              43    ID         150 - 200               0.530
              44    ID
              45    IT      5       0       0     300
              46    IO      5       0       0
              47    IN      5       0       0
              48    JR    PREC    0.99   0.975    0.95   0.925   0.915   0.908   0.903   0.895   0.885
                    *
```



```
          LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

              49    KK     RR1
              50    BA   4.225
              51    PB    3.59
              52    PC   0.000   0.020   0.057   0.070   0.087   0.108   0.124   0.130   0.130   0.130
              53    PC   0.130   0.130   0.130   0.133   0.140   0.142   0.148   0.158   0.172   0.181
              54    PC   0.190   0.197   0.199   0.200   0.201   0.204   0.214   0.229   0.241   0.249
              55    PC   0.251   0.256   0.270   0.278   0.281   0.283   0.295   0.322   0.352   0.409
              56    PC   0.499   0.590   0.710   0.744   0.781   0.812   0.819   0.835   0.851   0.856
              57    PC   0.860   0.868   0.876   0.888   0.910   0.926   0.937   0.950   0.970   0.976
              58    PC   0.982   0.985   0.987   0.989   0.990   0.993   0.993   0.994   0.995   0.998
              59    PC   0.998   0.999   1.000
              60    LS       0    85.8
              61    UD   0.443
                    *
              62    KK     RR2
              63    BA   3.547
              64    PB    3.64
              65    LS       0    86.2
              66    UD   0.545
                    *
              67    KK    RRR2
              68    KM   MUSKINGUM ROUTING UNSTABLE - USED MUSKINGUM-CUNGE
              69    KM   NATURAL WASH
              70    RD    1700   0.076    0.04       0    TRAP     100       2
                    *
              71    KK    CRR2
              72    KM   COMBINE RR1 AND RRR2
              73    HC       2
                    *
              74    KK   RCRR2
              75    KM   ROUTE CRR2 TO CRR3
              76    KM   NATURAL WASH
              77    KM   TRAVEL LENGTH = 15850
              78    KM   SLOPE = 0.043
              79    KM   N = 0.04
              80    KM   HYDRAULIC RADIUS = 1.5
              81    KM   VELOCITY = 16.2
              82    RM       3   0.272    0.15
                    *
              83    KK     RR5
              84    BA   7.132
              85    PB    3.46
              86    LS       0    87.9
              87    UD   0.615
                    *
```



```
          LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

              88    KK   R-RR5
              89    KM   ROUTE RR5 THROUGH RR3 TO CRR3
              90    KM   NATURAL WASH
              91    KM   TRAVEL LENGTH = 10700
              92    KM   SLOPE = 0.037
              93    KM   N = 0.04
              94    KM   HYDRAULIC RADIUS = 1.5
              95    KM   VELOCITY = 15
              96    RM       2   0.198    0.15
                    *
              97    KK     RR3
              98    BA  14.983
              99    PB    3.34
             100    LS       0      87
             101    UD   0.761
                    *
             102    KK    CRR3
             103    KM   COMBINE RCRR2, R-RR5, AND RR3
             104    HC       3
                    *
             105    KK   RCRR3
             106    KM   ROUTE CRR3 THROUGH RR10 TO CRR10
             107    KM   NATURAL WASH
             108    KM   TRAVEL LENGTH = 20700
             109    KM   SLOPE = 0.025
             110    KM   N = 0.04
             111    KM   HYDRAULIC RADIUS = 1.5
             112    KM   VELOCITY = 12.3
             113    RM       6   0.466    0.15
                    *
             114    KK    RR10
             115    BA   8.775
             116    PB    3.06
             117    LS       0    86.1
             118    UD   0.882
```

```
                 *

  119            KK   CRR10
  120            KM   COMBINE RCRR3 AND RR10
  121            HC       2
                 *

  122            KK  RCRR10
  123            KM   ROUTE CRR10 THROUGH 104A TO C104A (RED ROCK DETENTION BASIN)
  124            KM   NATURAL WASH
  125            KM   TRAVEL LENGTH = 14500
  126            KM   SLOPE = 0.021
  127            KM   N = 0.04
  128            KM   HYDRAULIC RADIUS = 1.5
  129            KM   VELOCITY = 11.3
1                                    HEC-1 INPUT                                    PAGE  4

 LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  130            RM       4   0.356    0.15
                 *

  131            KK   RR12A
  132            BA   5.821
  133            PB    3.20
  134            LS       0    87.6
  135            UD   0.728
                 *

  136            KK R-RR12A
  137            KM   ROUTE RR12A THROUGH 104A TO C104A (RED ROCK DETENTION BASIN)
  138            KM   NATURAL WASH
  139            KM   TRAVEL LENGTH = 12000
  140            KM   SLOPE = 0.026
  141            KM   N = 0.04
  142            KM   HYDRAULIC RADIUS = 1.5
  143            KM   VELOCITY = 12.6
  144            RM       3   0.265    0.15
                 *

  145            KK    104A
  146            BA   3.391
  147            PB    2.99
  148            LS       0    81.3
  149            UD   0.801
                 *

  150            KK   C104A
  151            KM   COMBINE RCRR10, R-RR12A, AND 104A
  152            HC       3
                 *

  153            KK     RD1
  154            BA   0.431
  155            PB    3.16
  156            LS       0    86.6
  157            UD   0.195
                 *

  158            KK   R-RD1
  159            KM   ROUTE RD1 THROUGH RD2 TO CRD2
  160            KM   FUTURE CONCRETE CHANNEL
  161            RD    5100   0.061   0.015       0    TRAP      12       2
                 *

  162            KK     RD2
  163            BA   0.473
  164            PB    3.10
  165            LS       0    91.2
  166            UD   0.167
                 *
1                                    HEC-1 INPUT                                    PAGE  5

 LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  167            KK    CRD2
  168            KM   COMBINE R-RD1 AND RD2
  169            HC       2
                 *

  170            KK   RCRD2
  171            KM   ROUTE CRD2 TO CRD3 (RED ROCK DETENTION BASIN)
  172            KM   FUTURE CONCRETE CHANNEL
  173            RD    4600    0.05   0.015       0    TRAP      12       2
                 *

  174            KK     RD3
  175            BA    0.33
  176            PB    3.06
  177            LS       0    90.3
  178            UD   0.168
                 *

  179            KK    CRD3
  180            KM   COMBINE RCRD2 AND RD3
  181            HC       2
                 *

  182            KK   RR14A
  183            BA   4.602
  184            PB    3.28
  185            LS       0    87.3
  186            UD   0.725
                 *

  187            KK R-RR14A
  188            KM   ROUTE RR14A THROUGH RD4 TO CRD4
  189            KM   FUTURE CONCRETE CHANNEL
  190            RD    5500   0.071   0.015       0    TRAP      12       2
                 *

  191            KK     RD4
  192            BA   0.402
  193            PB    3.16
  194            LS       0    85.1
  195            UD   0.177
                 *

  196            KK    CRD4
  197            KM   COMBINE R-RR14A AND RD4
  198            HC       2
                 *

  199            KK   RCRD4
  200            KM   ROUTE CRD4 THROUGH RD5 TO CRD5
  201            KM   FUTURE CONCRETE CHANNEL
  202            RD    4550   0.067   0.015       0    TRAP      20       2
                 *
1                                    HEC-1 INPUT                                    PAGE  6

 LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  203            KK     RD5
  204            BA    0.37
  205            PB    3.10
  206            LS       0    86.2
  207            UD   0.163
                 *

  208            KK    CRD5
  209            KM   COMBINE RCRD4 AND RD5
  210            HC       2
                 *

  211            KK   RCRD5
  212            KM   ROUTE CRD5 THROUGH RD6 TO CRD6 (RED ROCK DETENTION BASIN)
  213            KM   FUTURE CONCRETE CHANNEL
  214            RD    5600   0.047   0.015       0    TRAP      20       2
                 *

  215            KK     RD6
  216            BA    0.25
  217            PB    3.06
  218            LS       0      90
  219            UD    0.16
                 *

  220            KK    CRD6
  221            KM   COMBINE RCRD5 AND RD6
  222            HC       2
                 *

  223            KK    INRR
  224            KM   COMBINE C104A, CRD3, AND CRD6 - TOTAL INFLOW TO RED ROCK DETENTION BASIN
  225            KO       1
  226            HC       3
                 * ============================================================

  227            KK    RRDB
  228            KM   RED ROCK DETENTION BASIN
  229            KM   TAKEN FROM THE CORP MODELS FOR RED ROCK DETENTION BASIN
  230            KM   100YR COMPUTED PROBABILITY DETENTION DESIGN
  231            KM   FACILITY ID-MILE = RRWA 0716
  232            KM   STORAGE VOLUME = 2007 ACRE-FEET
  233            KM   OUTLET = 27"H x 27"W RCB ORIFICE
  234            KM   100-YR DISCHARGE = 182 CFS
  235            KM   SPILLWAY LENGTH = 600 FT
  236            KM   AUXILLARY OGEE SPILLWAY LENGTH = 323 FT
  237            KM   SPILLWAY CREST ELEVATION = 3212.5 FT NGVD
  238            KM   PMF DISCHARGE = 110000 CFS
  239            KM   TOP OF DAM ELEVATION = 3225 FT NGVD
  240            KO       1
  241            RS       1    STOR      -1
  242            SV       0       9     107     231     372     529     705     903    1125    1376
  243            SV    1659    1974    2007    2115    2331    2690    2933
  244            SQ       0      10      57      80      99     114     128     140     151     162
```

```
  LINE          ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

  245           SQ     171     181     182    8654   33270  110918  163477
  246           SE    3161    3162    3167    3172    3177    3182    3187    3192    3197    3202
  247           SE    3207    3212  3212.5    3214    3217    3222    3225
                * ========================================================

  248           KK *DOUTRR
  249           KM   DIVERT SPILLWAY OVERFLOW IN EXCESS OF CORPS DESIGN OUTFLOW
  250           DT*D-RROUT
  251           DI       0     182    3000    5000   10000
  252           DQ       0       0    2818    4818    9818
                *

  253           KK  ROUTRR
  254           KM   ROUTE OUTFLOW FROM RED ROCK DETENTION BASIN THROUGH R3A TO CR3A
  255           KM   FACILITY = RED ROCK CHANNEL
  256           KM   FACILITY # = RRWA 0714, 0709, 0701
  257           KM   LINING = RCP
  258           KM   LINING = RIPRAP CHNL 10'W X 6'D; 2:1SS
  259           RD    1500   0.008    0.04       0    TRAP      10       2
                *

  260           KK     R3A
  261           BA   0.186
  262           PB    2.93
  263           LS       0    84.3
  264           UD    0.11
                *

  265           KK    CR3A
  266           KM   COMBINE OUTFLOW FROM RED ROCK DETENTION BASIN WITH R3A
  267           HC       2
                *

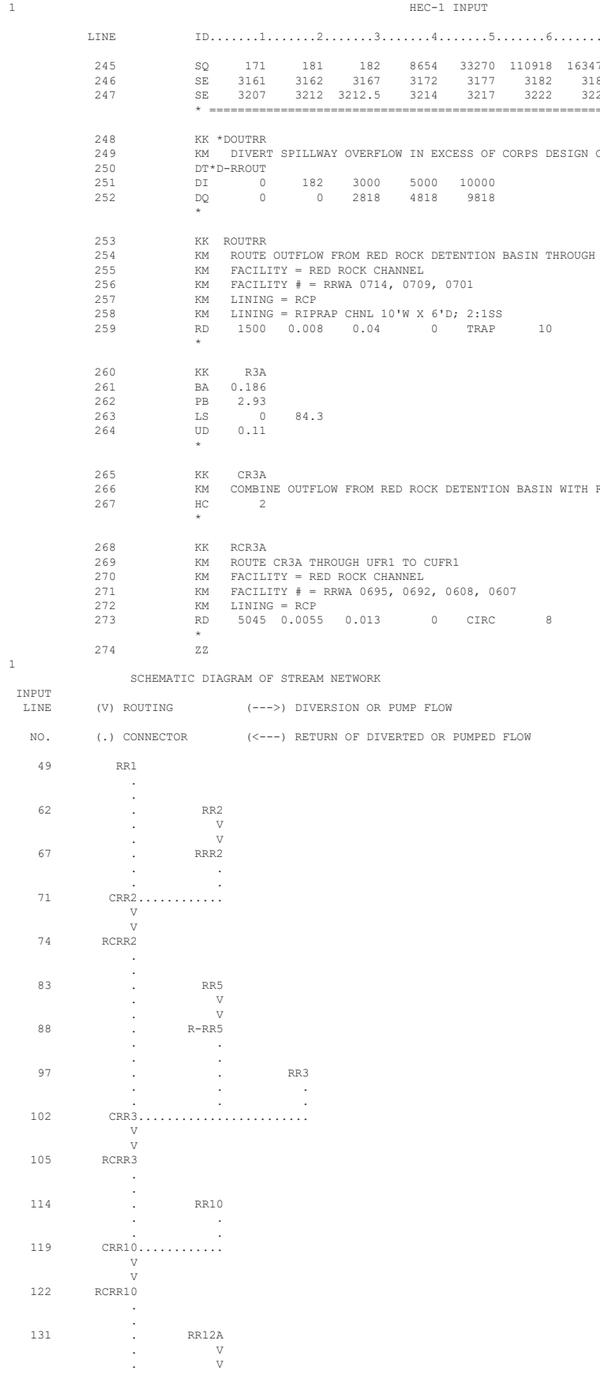
  268           KK   RCR3A
  269           KM   ROUTE CR3A THROUGH UFR1 TO CUFR1
  270           KM   FACILITY = RED ROCK CHANNEL
  271           KM   FACILITY # = RRWA 0695, 0692, 0608, 0607
  272           KM   LINING = RCP
  273           RD    5045  0.0055   0.013       0    CIRC       8       0
                *

  274           ZZ
```

1

SCHEMATIC DIAGRAM OF STREAM NETWORK

INPUT
LINE (V) ROUTING (---->) DIVERSION OR PUMP FLOW
NO. (.) CONNECTOR (<---) RETURN OF DIVERTED OR PUMPED FLOW



(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

```
1*****************************************
 *                                       *
 *   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
 *             JUN   1998                *
 *          VERSION 4.1                  *
 *                                       *
 *  RUN DATE   20MAY20  TIME  09:44:02   *
 *                                       *
 *****************************************
```

```
 ***************************************
 *                                     *
 *    U.S. ARMY CORPS OF ENGINEERS     *
 *    HYDROLOGIC ENGINEERING CENTER    *
 *         609 SECOND STREET           *
 *       DAVIS, CALIFORNIA 95616       *
 *           (916) 756-1104            *
 *                                     *
 ***************************************
```

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RED ROCK TRAIL TO FY19-87
US FEDERAL HIGHWAY ADMINISTRATION
PN WXXY4000

HEC-1 MODEL TAKEN FROM CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT (CCRFCD)
2018 MASTER PLAN UPDATE
FLAMINGO / TROPICANA WASHES WATERSHED
RECOMMENDED DRAINAGE SYSTEM WITH ULTIMATE DEVELOPMENT
INPUT FILE = FLAM3A.DAT
INPUT FILE DATE = MAY 2020
PRECIPITATION VALUES TAKEN FROM NOAA ATLAS 2 &
ADJUSTED PER CCRFCD HYDRAULIC CRITERIA & DRAINAGE DESIGN MANUAL TABLE 501
DESIGN STORM = 50-YEAR, 6-HOUR STORM
STORM DISTRIBUTION = SDN3
STORM CENTERING = SERIES A: REGIONAL DETENTION BASIN FLOWS NOT DIVERTED OUT
MODELED BY JACOBS (DAVE BERGH, PE)

JR CARDS CONTAIN DARFS BASED ON THE FOLLOWING VALUES:

       AREA    DARF
       SQ.MI.
               SDN 3   SDN 4   SDN 5
       0 - 0.5 0.990
       0.5 - 1 0.975
       1 - 2   0.950
       2 - 3   0.925
       3 - 4   0.915
       4 - 5   0.908
       5 - 6   0.903
       6 - 7   0.895
       7 - 8   0.885
       8 - 9           0.875
       9 - 10          0.865
       10 - 11         0.857
       11 - 12         0.850
       12 - 16                 0.832
       16 - 20                 0.804
       20 - 30                 0.765
       30 - 40                 0.725
       40 - 50                 0.695
       50 - 100                0.640
       100 - 150               0.580
       150 - 200               0.530

 46 IO         OUTPUT CONTROL VARIABLES
                   IPRNT          5  PRINT CONTROL
                   IPLOT          0  PLOT CONTROL
                   QSCAL          0.  HYDROGRAPH PLOT SCALE

    IT         HYDROGRAPH TIME DATA
                    NMIN          5  MINUTES IN COMPUTATION INTERVAL
                   IDATE      1    0  STARTING DATE
                   ITIME       0000  STARTING TIME
                      NQ        300  NUMBER OF HYDROGRAPH ORDINATES
                  NDDATE      2    0  ENDING DATE
                  NDTIME       0055  ENDING TIME
                   ICENT         19  CENTURY MARK

                COMPUTATION INTERVAL     .08 HOURS
                    TOTAL TIME BASE   24.92 HOURS

          ENGLISH UNITS
               DRAINAGE AREA         SQUARE MILES
               PRECIPITATION DEPTH   INCHES
               LENGTH, ELEVATION     FEET
               FLOW                  CUBIC FEET PER SECOND
               STORAGE VOLUME        ACRE-FEET
               SURFACE AREA          ACRES
               TEMPERATURE           DEGREES FAHRENHEIT

    JP         MULTI-PLAN OPTION
                   NPLAN          1  NUMBER OF PLANS

    JR         MULTI-RATIO OPTION
                   RATIOS OF PRECIPITATION
                   .99      .98      .95      .93      .92      .91      .90      .89      .88

*** *** *** *
```

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 33084.	5.00	11367.	2865.	2760.	2760.
		(INCHES) 1.931	1.947	1.947	1.947
		(AC-FT) 5637.	5683.	5683.	5683.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .98

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	12425.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	11401.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	10380.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	9372.	1		1245	154	0.	1		1900	229	0.
1		0020	5	1.	1		0635	80	8392.	1		1250	155	0.	1		1905	230	0.
1		0025	6	7.	1		0640	81	7457.	1		1255	156	0.	1		1910	231	0.
1		0030	7	25.	1		0645	82	6582.	1		1300	157	0.	1		1915	232	0.
1		0035	8	47.	1		0650	83	5777.	1		1305	158	0.	1		1920	233	0.
1		0040	9	56.	1		0655	84	5048.	1		1310	159	0.	1		1925	234	0.
1		0045	10	51.	1		0700	85	4396.	1		1315	160	0.	1		1930	235	0.
1		0050	11	42.	1		0705	86	3818.	1		1320	161	0.	1		1935	236	0.
1		0055	12	37.	1		0710	87	3308.	1		1325	162	0.	1		1940	237	0.
1		0100	13	40.	1		0715	88	2859.	1		1330	163	0.	1		1945	238	0.
1		0105	14	49.	1		0720	89	2464.	1		1335	164	0.	1		1950	239	0.
1		0110	15	66.	1		0725	90	2116.	1		1340	165	0.	1		1955	240	0.
1		0115	16	91.	1		0730	91	1811.	1		1345	166	0.	1		2000	241	0.
1		0120	17	118.	1		0735	92	1542.	1		1350	167	0.	1		2005	242	0.
1		0125	18	149.	1		0740	93	1307.	1		1355	168	0.	1		2010	243	0.
1		0130	19	194.	1		0745	94	1103.	1		1400	169	0.	1		2015	244	0.
1		0135	20	256.	1		0750	95	925.	1		1405	170	0.	1		2020	245	0.
1		0140	21	323.	1		0755	96	773.	1		1410	171	0.	1		2025	246	0.
1		0145	22	385.	1		0800	97	642.	1		1415	172	0.	1		2030	247	0.
1		0150	23	440.	1		0805	98	532.	1		1420	173	0.	1		2035	248	0.
1		0155	24	486.	1		0810	99	439.	1		1425	174	0.	1		2040	249	0.
1		0200	25	527.	1		0815	100	361.	1		1430	175	0.	1		2045	250	0.
1		0205	26	576.	1		0820	101	297.	1		1435	176	0.	1		2050	251	0.
1		0210	27	647.	1		0825	102	244.	1		1440	177	0.	1		2055	252	0.
1		0215	28	751.	1		0830	103	200.	1		1445	178	0.	1		2100	253	0.
1		0220	29	892.	1		0835	104	164.	1		1450	179	0.	1		2105	254	0.
1		0225	30	1044.	1		0840	105	134.	1		1455	180	0.	1		2110	255	0.
1		0230	31	1180.	1		0845	106	110.	1		1500	181	0.	1		2115	256	0.
1		0235	32	1294.	1		0850	107	90.	1		1505	182	0.	1		2120	257	0.
1		0240	33	1424.	1		0855	108	74.	1		1510	183	0.	1		2125	258	0.
1		0245	34	1596.	1		0900	109	60.	1		1515	184	0.	1		2130	259	0.
1		0250	35	1789.	1		0905	110	49.	1		1520	185	0.	1		2135	260	0.
1		0255	36	1956.	1		0910	111	39.	1		1525	186	0.	1		2140	261	0.
1		0300	37	2102.	1		0915	112	31.	1		1530	187	0.	1		2145	262	0.
1		0305	38	2286.	1		0920	113	25.	1		1535	188	0.	1		2150	263	0.
1		0310	39	2564.	1		0925	114	19.	1		1540	189	0.	1		2155	264	0.
1		0315	40	2976.	1		0930	115	15.	1		1545	190	0.	1		2200	265	0.
1		0320	41	3612.	1		0935	116	12.	1		1550	191	0.	1		2205	266	0.
1		0325	42	4586.	1		0940	117	9.	1		1555	192	0.	1		2210	267	0.
1		0330	43	5852.	1		0945	118	7.	1		1600	193	0.	1		2215	268	0.
1		0335	44	7153.	1		0950	119	5.	1		1605	194	0.	1		2220	269	0.
1		0340	45	8062.	1		0955	120	4.	1		1610	195	0.	1		2225	270	0.
1		0345	46	8799.	1		1000	121	3.	1		1615	196	0.	1		2230	271	0.
1		0350	47	9699.	1		1005	122	2.	1		1620	197	0.	1		2235	272	0.
1		0355	48	10819.	1		1010	123	2.	1		1625	198	0.	1		2240	273	0.
1		0400	49	12205.	1		1015	124	1.	1		1630	199	0.	1		2245	274	0.
1		0405	50	13826.	1		1020	125	1.	1		1635	200	0.	1		2250	275	0.
1		0410	51	15565.	1		1025	126	1.	1		1640	201	0.	1		2255	276	0.
1		0415	52	17407.	1		1030	127	0.	1		1645	202	0.	1		2300	277	0.
1		0420	53	19407.	1		1035	128	0.	1		1650	203	0.	1		2305	278	0.
1		0425	54	21557.	1		1040	129	0.	1		1655	204	0.	1		2310	279	0.
1		0430	55	23828.	1		1045	130	0.	1		1700	205	0.	1		2315	280	0.
1		0435	56	26135.	1		1050	131	0.	1		1705	206	0.	1		2320	281	0.
1		0440	57	28263.	1		1055	132	0.	1		1710	207	0.	1		2325	282	0.
1		0445	58	30027.	1		1100	133	0.	1		1715	208	0.	1		2330	283	0.
1		0450	59	31358.	1		1105	134	0.	1		1720	209	0.	1		2335	284	0.
1		0455	60	32185.	1		1110	135	0.	1		1725	210	0.	1		2340	285	0.
1		0500	61	32380.	1		1115	136	0.	1		1730	211	0.	1		2345	286	0.
1		0505	62	31931.	1		1120	137	0.	1		1735	212	0.	1		2350	287	0.
1		0510	63	30934.	1		1125	138	0.	1		1740	213	0.	1		2355	288	0.
1		0515	64	29521.	1		1130	139	0.	1		1745	214	0.	2		0000	289	0.
1		0520	65	27832.	1		1135	140	0.	1		1750	215	0.	2		0005	290	0.
1		0525	66	26006.	1		1140	141	0.	1		1755	216	0.	2		0010	291	0.
1		0530	67	24158.	1		1145	142	0.	1		1800	217	0.	2		0015	292	0.
1		0535	68	22372.	1		1150	143	0.	1		1805	218	0.	2		0020	293	0.
1		0540	69	20709.	1		1155	144	0.	1		1810	219	0.	2		0025	294	0.
1		0545	70	19205.	1		1200	145	0.	1		1815	220	0.	2		0030	295	0.
1		0550	71	17865.	1		1205	146	0.	1		1820	221	0.	2		0035	296	0.
1		0555	72	16654.	1		1210	147	0.	1		1825	222	0.	2		0040	297	0.
1		0600	73	15536.	1		1215	148	0.	1		1830	223	0.	2		0045	298	0.
1		0605	74	14478.	1		1220	149	0.	1		1835	224	0.	2		0050	299	0.
1		0610	75	13448.	1		1225	150	0.	1		1840	225	0.	2		0055	300	0.

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 32380.	5.00	11116.	2801.	2698.	2698.
		(INCHES) 1.888	1.903	1.903	1.903
		(AC-FT) 5512.	5556.	5556.	5556.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .95

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	12024.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	11035.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	10048.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	9074.	1		1245	154	0.	1		1900	229	0.
1		0020	5	1.	1		0635	80	8126.	1		1250	155	0.	1		1905	230	0.
1		0025	6	6.	1		0640	81	7221.	1		1255	156	0.	1		1910	231	0.
1		0030	7	22.	1		0645	82	6374.	1		1300	157	0.	1		1915	232	0.
1		0035	8	42.	1		0650	83	5595.	1		1305	158	0.	1		1920	233	0.
1		0040	9	50.	1		0655	84	4889.	1		1310	159	0.	1		1925	234	0.
1		0045	10	45.	1		0700	85	4258.	1		1315	160	0.	1		1930	235	0.
1		0050	11	36.	1		0705	86	3699.	1		1320	161	0.	1		1935	236	0.
1		0055	12	32.	1		0710	87	3205.	1		1325	162	0.	1		1940	237	0.
1		0100	13	33.	1		0715	88	2770.	1		1330	163	0.	1		1945	238	0.
1		0105	14	40.	1		0720	89	2387.	1		1335	164	0.	1		1950	239	0.
1		0110	15	55.	1		0725	90	2050.	1		1340	165	0.	1		1955	240	0.
1		0115	16	77.	1		0730	91	1754.	1		1345	166	0.	1		2000	241	0.
1		0120	17	100.	1		0735	92	1494.	1		1350	167	0.	1		2005	242	0.
1		0125	18	127.	1		0740	93	1267.	1		1355	168	0.	1		2010	243	0.
1		0130	19	167.	1		0745	94	1068.	1		1400	169	0.	1		2015	244	0.
1		0135	20	223.	1		0750	95	896.	1		1405	170	0.	1		2020	245	0.
1		0140	21	283.	1		0755	96	749.	1		1410	171	0.	1		2025	246	0.
1		0145	22	339.	1		0800	97	622.	1		1415	172	0.	1		2030	247	0.
1		0150	23	389.	1		0805	98	515.	1		1420	173	0.	1		2035	248	0.
1		0155	24	430.	1		0810	99	425.	1		1425	174	0.	1		2040	249	0.
1		0200	25	467.	1		0815	100	350.	1		1430	175	0.	1		2045	250	0.
1		0205	26	512.	1		0820	101	288.	1		1435	176	0.	1		2050	251	0.
1		0210	27	578.	1		0825	102	236.	1		1440	177	0.	1		2055	252	0.
1		0215	28	677.	1		0830	103	194.	1		1445	178	0.	1		2100	253	0.
1		0220	29	810.	1		0835	104	159.	1		1450	179	0.	1		2105	254	0.
1		0225	30	953.	1		0840	105	130.	1		1455	180	0.	1		2110	255	0.
1		0230	31	1082.	1		0845	106	107.	1		1500	181	0.	1		2115	256	0.
1		0235	32	1191.	1		0850	107	87.	1		1505	182	0.	1		2120	257	0.
1		0240	33	1313.	1		0855	108	71.	1		1510	183	0.	1		2125	258	0.
1		0245	34	1477.	1		0900	109	58.	1		1515	184	0.	1		2130	259	0.
1		0250	35	1659.	1		0905	110	47.	1		1520	185	0.	1		2135	260	0.
1		0255	36	1819.	1		0910	111	38.	1		1525	186	0.	1		2140	261	0.
1		0300	37	1958.	1		0915	112	30.	1		1530	187	0.	1		2145	262	0.
1		0305	38	2133.	1		0920	113	24.	1		1535	188	0.	1		2150	263	0.
1		0310	39	2400.	1		0925	114	19.	1		1540	189	0.	1		2155	264	0.
1		0315	40	2792.	1		0930	115	15.	1		1545	190	0.	1		2200	265	0.
1		0320	41	3406.	1		0935	116	11.	1		1550	191	0.	1		2205	266	0.
1		0325	42	4336.	1		0940	117	9.	1		1555	192	0.	1		2210	267	0.
1		0330	43	5558.	1		0945	118	7.	1		1600	193	0.	1		2215	268	0.
1		0335	44	6817.	1		0950	119	5.	1		1605	194	0.	1		2220	269	0.
1		0340	45	7693.	1		0955	120	4.	1		1610	195	0.	1		2225	270	0.
1		0345	46	8400.	1		1000	121	3.	1		1615	196	0.	1		2230	271	0.
1		0350	47	9268.	1		1005	122	2.	1		1620	197	0.	1		2235	272	0.
1		0355	48	10347.	1		1010	123	2.	1		1625	198	0.	1		2240	273	0.
1		0400	49	11682.	1		1015	124	1.	1		1630	199	0.	1		2245	274	0.
1		0405	50	13244.	1		1020	125	1.	1		1635	200	0.	1		2250	275	0.
1		0410	51	14923.	1		1025	126	1.	1		1640	201	0.	1		2255	276	0.
1		0415	52	16700.	1		1030	127	0.	1		1645	202	0.	1		2300	277	0.
1		0420	53	18633.	1		1035	128	0.	1		1650	203	0.	1		2305	278	0.
1		0425	54	20709.	1		1040	129	0.	1		1655	204	0.	1		2310	279	0.
1		0430	55	22906.	1		1045	130	0.	1		1700	205	0.	1		2315	280	0.
1		0435	56	25134.	1		1050	131	0.	1		1705	206	0.	1		2320	281	0.
1		0440	57	27196.	1		1055	132	0.	1		1710	207	0.	1		2325	282	0.
1		0445	58	28908.	1		1100	133	0.	1		1715	208	0.	1		2330	283	0.
1		0450	59	30201.	1		1105	134	0.	1		1720	209	0.	1		2335	284	0.
1		0455	60	31011.	1		1110	135	0.	1		1725	210	0.	1		2340	285	0.
1		0500	61	31210.	1		1115	136	0.	1		1730	211	0.	1		2345	286	0.
1		0505	62	30788.	1		1120	137	0.	1		1735	212	0.	1		2350	287	0.
1		0510	63	29836.	1		1125	138	0.	1		1740	213	0.	1		2355	288	0.
1		0515	64	28481.	1		1130	139	0.	1		1745	214	0.	2		0000	289	0.
1		0520	65	26861.	1		1135	140	0.	1		1750	215	0.	2		0005	290	0.
1		0525	66	25105.	1		1140	141	0.	1		1755	216	0.	2		0010	291	0.
1		0530	67	23328.	1		1145	142	0.	1		1800	217	0.	2		0015	292	0.

1	0535	68	21610.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.		
1	0540	69	20009.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.		
1	0545	70	18561.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.		
1	0550	71	17270.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.		
1	0555	72	16104.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.		
1	0600	73	15026.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.		
1	0605	74	14006.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.		
1	0610	75	13012.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.		
				*					*					*						

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 31210.	5.00	10698.	2695.	2595.	2595.
		(INCHES) 1.817	1.831	1.831	1.831
		(AC-FT) 5305.	5345.	5345.	5345.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .93

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	*	1	0615	76	11624.	*	1	1230	151	0.	*	1	1845	226	0.				
1	0005	2	0.	*	1	0620	77	10669.	*	1	1235	152	0.	*	1	1850	227	0.				
1	0010	3	0.	*	1	0625	78	9717.	*	1	1240	153	0.	*	1	1855	228	0.				
1	0015	4	0.	*	1	0630	79	8775.	*	1	1245	154	0.	*	1	1900	229	0.				
1	0020	5	0.	*	1	0635	80	7859.	*	1	1250	155	0.	*	1	1905	230	0.				
1	0025	6	5.	*	1	0640	81	6985.	*	1	1255	156	0.	*	1	1910	231	0.				
1	0030	7	19.	*	1	0645	82	6166.	*	1	1300	157	0.	*	1	1915	232	0.				
1	0035	8	37.	*	1	0650	83	5413.	*	1	1305	158	0.	*	1	1920	233	0.				
1	0040	9	45.	*	1	0655	84	4730.	*	1	1310	159	0.	*	1	1925	234	0.				
1	0045	10	40.	*	1	0700	85	4120.	*	1	1315	160	0.	*	1	1930	235	0.				
1	0050	11	31.	*	1	0705	86	3579.	*	1	1320	161	0.	*	1	1935	236	0.				
1	0055	12	26.	*	1	0710	87	3101.	*	1	1325	162	0.	*	1	1940	237	0.				
1	0100	13	27.	*	1	0715	88	2680.	*	1	1330	163	0.	*	1	1945	238	0.				
1	0105	14	33.	*	1	0720	89	2310.	*	1	1335	164	0.	*	1	1950	239	0.				
1	0110	15	45.	*	1	0725	90	1984.	*	1	1340	165	0.	*	1	1955	240	0.				
1	0115	16	64.	*	1	0730	91	1698.	*	1	1345	166	0.	*	1	2000	241	0.				
1	0120	17	84.	*	1	0735	92	1446.	*	1	1350	167	0.	*	1	2005	242	0.				
1	0125	18	107.	*	1	0740	93	1226.	*	1	1355	168	0.	*	1	2010	243	0.				
1	0130	19	143.	*	1	0745	94	1034.	*	1	1400	169	0.	*	1	2015	244	0.				
1	0135	20	192.	*	1	0750	95	868.	*	1	1405	170	0.	*	1	2020	245	0.				
1	0140	21	246.	*	1	0755	96	725.	*	1	1410	171	0.	*	1	2025	246	0.				
1	0145	22	296.	*	1	0800	97	602.	*	1	1415	172	0.	*	1	2030	247	0.				
1	0150	23	341.	*	1	0805	98	499.	*	1	1420	173	0.	*	1	2035	248	0.				
1	0155	24	377.	*	1	0810	99	412.	*	1	1425	174	0.	*	1	2040	249	0.				
1	0200	25	411.	*	1	0815	100	339.	*	1	1430	175	0.	*	1	2045	250	0.				
1	0205	26	452.	*	1	0820	101	278.	*	1	1435	176	0.	*	1	2050	251	0.				
1	0210	27	513.	*	1	0825	102	229.	*	1	1440	177	0.	*	1	2055	252	0.				
1	0215	28	606.	*	1	0830	103	188.	*	1	1445	178	0.	*	1	2100	253	0.				
1	0220	29	730.	*	1	0835	104	154.	*	1	1450	179	0.	*	1	2105	254	0.				
1	0225	30	866.	*	1	0840	105	126.	*	1	1455	180	0.	*	1	2110	255	0.				
1	0230	31	987.	*	1	0845	106	103.	*	1	1500	181	0.	*	1	2115	256	0.				
1	0235	32	1091.	*	1	0850	107	85.	*	1	1505	182	0.	*	1	2120	257	0.				
1	0240	33	1205.	*	1	0855	108	69.	*	1	1510	183	0.	*	1	2125	258	0.				
1	0245	34	1360.	*	1	0900	109	56.	*	1	1515	184	0.	*	1	2130	259	0.				
1	0250	35	1533.	*	1	0905	110	46.	*	1	1520	185	0.	*	1	2135	260	0.				
1	0255	36	1684.	*	1	0910	111	37.	*	1	1525	186	0.	*	1	2140	261	0.				
1	0300	37	1817.	*	1	0915	112	29.	*	1	1530	187	0.	*	1	2145	262	0.				
1	0305	38	1984.	*	1	0920	113	23.	*	1	1535	188	0.	*	1	2150	263	0.				
1	0310	39	2238.	*	1	0925	114	18.	*	1	1540	189	0.	*	1	2155	264	0.				
1	0315	40	2612.	*	1	0930	115	14.	*	1	1545	190	0.	*	1	2200	265	0.				
1	0320	41	3199.	*	1	0935	116	11.	*	1	1550	191	0.	*	1	2205	266	0.				
1	0325	42	4093.	*	1	0940	117	8.	*	1	1555	192	0.	*	1	2210	267	0.				
1	0330	43	5261.	*	1	0945	118	6.	*	1	1600	193	0.	*	1	2215	268	0.				
1	0335	44	6478.	*	1	0950	119	5.	*	1	1605	194	0.	*	1	2220	269	0.				
1	0340	45	7333.	*	1	0955	120	4.	*	1	1610	195	0.	*	1	2225	270	0.				
1	0345	46	8007.	*	1	1000	121	3.	*	1	1615	196	0.	*	1	2230	271	0.				
1	0350	47	8838.	*	1	1005	122	2.	*	1	1620	197	0.	*	1	2235	272	0.				
1	0355	48	9876.	*	1	1010	123	2.	*	1	1625	198	0.	*	1	2240	273	0.				
1	0400	49	11164.	*	1	1015	124	1.	*	1	1630	199	0.	*	1	2245	274	0.				
1	0405	50	12668.	*	1	1020	125	1.	*	1	1635	200	0.	*	1	2250	275	0.				
1	0410	51	14284.	*	1	1025	126	1.	*	1	1640	201	0.	*	1	2255	276	0.				
1	0415	52	16002.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.				
1	0420	53	17862.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.				
1	0425	54	19865.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.				
1	0430	55	21986.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.				
1	0435	56	24140.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.				
1	0440	57	26133.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.				
1	0445	58	27790.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.				
1	0450	59	29047.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.				
1	0455	60	29838.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.				
1	0500	61	30042.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.				
1	0505	62	29646.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.				

1	0510	63	28740.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.		
1	0515	64	27444.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.		
1	0520	65	25891.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.		
1	0525	66	24206.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.		
1	0530	67	22499.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.		
1	0535	68	20849.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.		
1	0540	69	19310.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.		
1	0545	70	17917.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.		
1	0550	71	16676.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.		
1	0555	72	15554.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.		
1	0600	73	14517.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.		
1	0605	74	13534.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.		
1	0610	75	12576.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.		
				*					*					*						

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 30042.	5.00	10282.	2589.	2494.	2494.
		(INCHES) 1.747	1.759	1.759	1.759
		(AC-FT) 5098.	5135.	5135.	5135.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .92

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	*	1	0615	76	11463.	*	1	1230	151	0.	*	1	1845	226	0.				
1	0005	2	0.	*	1	0620	77	10523.	*	1	1235	152	0.	*	1	1850	227	0.				
1	0010	3	0.	*	1	0625	78	9584.	*	1	1240	153	0.	*	1	1855	228	0.				
1	0015	4	0.	*	1	0630	79	8655.	*	1	1245	154	0.	*	1	1900	229	0.				
1	0020	5	0.	*	1	0635	80	7753.	*	1	1250	155	0.	*	1	1905	230	0.				
1	0025	6	4.	*	1	0640	81	6890.	*	1	1255	156	0.	*	1	1910	231	0.				
1	0030	7	17.	*	1	0645	82	6082.	*	1	1300	157	0.	*	1	1915	232	0.				
1	0035	8	35.	*	1	0650	83	5340.	*	1	1305	158	0.	*	1	1920	233	0.				
1	0040	9	43.	*	1	0655	84	4667.	*	1	1310	159	0.	*	1	1925	234	0.				
1	0045	10	38.	*	1	0700	85	4065.	*	1	1315	160	0.	*	1	1930	235	0.				
1	0050	11	29.	*	1	0705	86	3531.	*	1	1320	161	0.	*	1	1935	236	0.				
1	0055	12	24.	*	1	0710	87	3060.	*	1	1325	162	0.	*	1	1940	237	0.				
1	0100	13	25.	*	1	0715	88	2645.	*	1	1330	163	0.	*	1	1945	238	0.				
1	0105	14	30.	*	1	0720	89	2279.	*	1	1335	164	0.	*	1	1950	239	0.				
1	0110	15	42.	*	1	0725	90	1958.	*	1	1340	165	0.	*	1	1955	240	0.				
1	0115	16	59.	*	1	0730	91	1675.	*	1	1345	166	0.	*	1	2000	241	0.				
1	0120	17	78.	*	1	0735	92	1427.	*	1	1350	167	0.	*	1	2005	242	0.				
1	0125	18	100.	*	1	0740	93	1210.	*	1	1355	168	0.	*	1	2010	243	0.				
1	0130	19	134.	*	1	0745	94	1020.	*	1	1400	169	0.	*	1	2015	244	0.				
1	0135	20	181.	*	1	0750	95	856.	*	1	1405	170	0.	*	1	2020	245	0.				
1	0140	21	232.	*	1	0755	96	715.	*	1	1410	171	0.	*	1	2025	246	0.				
1	0145	22	280.	*	1	0800	97	595.	*	1	1415	172	0.	*	1	2030	247	0.				
1	0150	23	322.	*	1	0805	98	492.	*	1	1420	173	0.	*	1	2035	248	0.				
1	0155	24	357.	*	1	0810	99	406.	*	1	1425	174	0.	*	1	2040	249	0.				
1	0200	25	389.	*	1	0815	100	334.	*	1	1430	175	0.	*	1	2045	250	0.				
1	0205	26	429.	*	1	0820	101	275.	*	1	1435	176	0.	*	1	2050	251	0.				
1	0210	27	488.	*	1	0825	102	226.	*	1	1440	177	0.	*	1	2055	252	0.				
1	0215	28	578.	*	1	0830	103	185.	*	1	1445	178	0.	*	1	2100	253	0.				
1	0220	29	700.	*	1	0835	104	152.	*	1	1450	179	0.	*	1	2105	254	0.				
1	0225	30	832.	*	1	0840	105	125.	*	1	1455	180	0.	*	1	2110	255	0.				
1	0230	31	950.	*	1	0845	106	102.	*	1	1500	181	0.	*	1	2115	256	0.				
1	0235	32	1051.	*	1	0850	107	84.	*	1	1505	182	0.	*	1	2120	257	0.				
1	0240	33	1163.	*	1	0855	108	68.	*	1	1510	183	0.	*	1	2125	258	0.				
1	0245	34	1314.	*	1	0900	109	56.	*	1	1515	184	0.	*	1	2130	259	0.				
1	0250	35	1483.	*	1	0905	110	45.	*	1	1520	185	0.	*	1	2135	260	0.				
1	0255	36	1631.	*	1	0910	111	36.	*	1	1525	186	0.	*	1	2140	261	0.				
1	0300	37	1761.	*	1	0915	112	29.	*	1	1530	187	0.	*	1	2145	262	0.				
1	0305	38	1927.	*	1	0920	113	23.	*	1	1535	188	0.	*	1	2150	263	0.				
1	0310	39	2173.	*	1	0925	114	18.	*	1	1540	189	0.	*	1	2155	264	0.				
1	0315	40	2540.	*	1	0930	115	14.	*	1	1545	190	0.	*	1	2200	265	0.				
1	0320	41	3118.	*	1	0935	116	11.	*	1	1550	191	0.	*	1	2205	266	0.				
1	0325	42	3996.	*	1	0940	117	8.	*	1	1555	192	0.	*	1	2210	267	0.				
1	0330	43	5150.	*	1	0945	118	6.	*	1	1600	193	0.	*	1	2215	268	0.				
1	0335	44	6344.	*	1	0950	119	5.	*	1	1605	194	0.	*	1	2220	269	0.				
1	0340	45	7183.	*	1	0955	120	4.	*	1	1610	195	0.	*	1	2225	270	0.				
1	0345	46	7857.	*	1	1000	121	3.	*	1	1615	196	0.	*	1	2230	271	0.				
1	0350	47	8669.	*	1	1005	122	2.	*	1	1620	197	0.	*	1	2235	272	0.				
1	0355	48	9688.	*	1	1010	123	2.	*	1	1625	198	0.	*	1	2240	273	0.				
1	0400	49	10953.	*	1	1015	124	1.	*	1	1630	199	0.	*	1	2245	274	0.				
1	0405	50	12437.	*	1	1020	125	1.	*	1	1635	200	0.	*	1	2250	275	0.				
1	0410	51	14033.	*	1	1025	126	1.	*	1	1640	201	0.	*	1	2255	276	0.				
1	0415	52	15720.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.				
1	0420	53	17555.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.				
1	0425	54	19530.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.				
1	0430	55	21618.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.				
1	0435	56	23741.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.				
1	0440	57	25708.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.				

1	0445	58	27344.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.					
1	0450	59	28587.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.					
1	0455	60	29369.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.					
1	0500	61	29574.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.					
1	0505	62	29191.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.					
1	0510	63	28302.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.					
1	0515	64	27030.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.					
1	0520	65	25503.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.					
1	0525	66	23847.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.					
1	0530	67	22169.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.					
1	0535	68	20544.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.					
1	0540	69	19030.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.					
1	0545	70	17661.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.					
1	0550	71	16439.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.					
1	0555	72	15334.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.					
1	0600	73	14313.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.					
1	0605	74	13346.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.					
1	0610	75	12402.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.					

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
	(CFS)				
+ 29574.	5.00	10116.	2547.	2453.	2453.
	(INCHES)	1.718	1.730	1.730	1.730
	(AC-FT)	5016.	5051.	5051.	5051.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .91

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	1	0615	76	11351.	1	1230	151	0.	1	1845	226	0.				
1	0005	2	0.	1	0620	77	10420.	1	1235	152	0.	1	1850	227	0.				
1	0010	3	0.	1	0625	78	9491.	1	1240	153	0.	1	1855	228	0.				
1	0015	4	0.	1	0630	79	8572.	1	1245	154	0.	1	1900	229	0.				
1	0020	5	0.	1	0635	80	7678.	1	1250	155	0.	1	1905	230	0.				
1	0025	6	4.	1	0640	81	6824.	1	1255	156	0.	1	1910	231	0.				
1	0030	7	17.	1	0645	82	6024.	1	1300	157	0.	1	1915	232	0.				
1	0035	8	33.	1	0650	83	5289.	1	1305	158	0.	1	1920	233	0.				
1	0040	9	41.	1	0655	84	4622.	1	1310	159	0.	1	1925	234	0.				
1	0045	10	36.	1	0700	85	4026.	1	1315	160	0.	1	1930	235	0.				
1	0050	11	28.	1	0705	86	3497.	1	1320	161	0.	1	1935	236	0.				
1	0055	12	23.	1	0710	87	3031.	1	1325	162	0.	1	1940	237	0.				
1	0100	13	23.	1	0715	88	2620.	1	1330	163	0.	1	1945	238	0.				
1	0105	14	28.	1	0720	89	2258.	1	1335	164	0.	1	1950	239	0.				
1	0110	15	39.	1	0725	90	1939.	1	1340	165	0.	1	1955	240	0.				
1	0115	16	56.	1	0730	91	1659.	1	1345	166	0.	1	2000	241	0.				
1	0120	17	74.	1	0735	92	1414.	1	1350	167	0.	1	2005	242	0.				
1	0125	18	95.	1	0740	93	1198.	1	1355	168	0.	1	2010	243	0.				
1	0130	19	128.	1	0745	94	1011.	1	1400	169	0.	1	2015	244	0.				
1	0135	20	173.	1	0750	95	848.	1	1405	170	0.	1	2020	245	0.				
1	0140	21	222.	1	0755	96	708.	1	1410	171	0.	1	2025	246	0.				
1	0145	22	269.	1	0800	97	589.	1	1415	172	0.	1	2030	247	0.				
1	0150	23	310.	1	0805	98	488.	1	1420	173	0.	1	2035	248	0.				
1	0155	24	344.	1	0810	99	402.	1	1425	174	0.	1	2040	249	0.				
1	0200	25	374.	1	0815	100	331.	1	1430	175	0.	1	2045	250	0.				
1	0205	26	413.	1	0820	101	272.	1	1435	176	0.	1	2050	251	0.				
1	0210	27	471.	1	0825	102	224.	1	1440	177	0.	1	2055	252	0.				
1	0215	28	559.	1	0830	103	183.	1	1445	178	0.	1	2100	253	0.				
1	0220	29	679.	1	0835	104	150.	1	1450	179	0.	1	2105	254	0.				
1	0225	30	808.	1	0840	105	123.	1	1455	180	0.	1	2110	255	0.				
1	0230	31	925.	1	0845	106	101.	1	1500	181	0.	1	2115	256	0.				
1	0235	32	1024.	1	0850	107	83.	1	1505	182	0.	1	2120	257	0.				
1	0240	33	1134.	1	0855	108	68.	1	1510	183	0.	1	2125	258	0.				
1	0245	34	1282.	1	0900	109	55.	1	1515	184	0.	1	2130	259	0.				
1	0250	35	1448.	1	0905	110	45.	1	1520	185	0.	1	2135	260	0.				
1	0255	36	1594.	1	0910	111	36.	1	1525	186	0.	1	2140	261	0.				
1	0300	37	1723.	1	0915	112	29.	1	1530	187	0.	1	2145	262	0.				
1	0305	38	1884.	1	0920	113	23.	1	1535	188	0.	1	2150	263	0.				
1	0310	39	2132.	1	0925	114	18.	1	1540	189	0.	1	2155	264	0.				
1	0315	40	2490.	1	0930	115	14.	1	1545	190	0.	1	2200	265	0.				
1	0320	41	3059.	1	0935	116	11.	1	1550	191	0.	1	2205	266	0.				
1	0325	42	3929.	1	0940	117	8.	1	1555	192	0.	1	2210	267	0.				
1	0330	43	5069.	1	0945	118	6.	1	1600	193	0.	1	2215	268	0.				
1	0335	44	6253.	1	0950	119	5.	1	1605	194	0.	1	2220	269	0.				
1	0340	45	7081.	1	0955	120	4.	1	1610	195	0.	1	2225	270	0.				
1	0345	46	7738.	1	1000	121	3.	1	1615	196	0.	1	2230	271	0.				
1	0350	47	8547.	1	1005	122	2.	1	1620	197	0.	1	2235	272	0.				
1	0355	48	9559.	1	1010	123	2.	1	1625	198	0.	1	2240	273	0.				
1	0400	49	10812.	1	1015	124	1.	1	1630	199	0.	1	2245	274	0.				
1	0405	50	12278.	1	1020	125	1.	1	1635	200	0.	1	2250	275	0.				
1	0410	51	13852.	1	1025	126	1.	1	1640	201	0.	1	2255	276	0.				
1	0415	52	15525.	1	1030	127	0.	1	1645	202	0.	1	2300	277	0.				

1	0420	53	17339.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.					
1	0425	54	19292.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.					
1	0430	55	21362.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.					
1	0435	56	23464.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.					
1	0440	57	25413.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.					
1	0445	58	27033.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.					
1	0450	59	28263.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.					
1	0455	60	29041.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.					
1	0500	61	29249.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.					
1	0505	62	28871.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.					
1	0510	63	27996.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.					
1	0515	64	26739.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.					
1	0520	65	25233.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.					
1	0525	66	23596.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.					
1	0530	67	21937.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.					
1	0535	68	20331.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.					
1	0540	69	18835.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.					
1	0545	70	17480.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.					
1	0550	71	16272.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.					
1	0555	72	15180.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.					
1	0600	73	14171.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.					
1	0605	74	13213.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.					
1	0610	75	12280.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.					

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
	(CFS)				
+ 29249.	5.00	10000.	2517.	2425.	2425.
	(INCHES)	1.699	1.710	1.710	1.710
	(AC-FT)	4958.	4993.	4993.	4993.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .90

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	1	0615	76	11271.	1	1230	151	0.	1	1845	226	0.				
1	0005	2	0.	1	0620	77	10347.	1	1235	152	0.	1	1850	227	0.				
1	0010	3	0.	1	0625	78	9424.	1	1240	153	0.	1	1855	228	0.				
1	0015	4	0.	1	0630	79	8512.	1	1245	154	0.	1	1900	229	0.				
1	0020	5	0.	1	0635	80	7625.	1	1250	155	0.	1	1905	230	0.				
1	0025	6	4.	1	0640	81	6777.	1	1255	156	0.	1	1910	231	0.				
1	0030	7	16.	1	0645	82	5983.	1	1300	157	0.	1	1915	232	0.				
1	0035	8	33.	1	0650	83	5252.	1	1305	158	0.	1	1920	233	0.				
1	0040	9	40.	1	0655	84	4591.	1	1310	159	0.	1	1925	234	0.				
1	0045	10	35.	1	0700	85	3999.	1	1315	160	0.	1	1930	235	0.				
1	0050	11	27.	1	0705	86	3473.	1	1320	161	0.	1	1935	236	0.				
1	0055	12	22.	1	0710	87	3010.	1	1325	162	0.	1	1940	237	0.				
1	0100	13	22.	1	0715	88	2602.	1	1330	163	0.	1	1945	238	0.				
1	0105	14	27.	1	0720	89	2242.	1	1335	164	0.	1	1950	239	0.				
1	0110	15	37.	1	0725	90	1926.	1	1340	165	0.	1	1955	240	0.				
1	0115	16	54.	1	0730	91	1648.	1	1345	166	0.	1	2000	241	0.				
1	0120	17	71.	1	0735	92	1404.	1	1350	167	0.	1	2005	242	0.				
1	0125	18	91.	1	0740	93	1190.	1	1355	168	0.	1	2010	243	0.				
1	0130	19	123.	1	0745	94	1004.	1	1400	169	0.	1	2015	244	0.				
1	0135	20	168.	1	0750	95	843.	1	1405	170	0.	1	2020	245	0.				
1	0140	21	216.	1	0755	96	704.	1	1410	171	0.	1	2025	246	0.				
1	0145	22	261.	1	0800	97	585.	1	1415	172	0.	1	2030	247	0.				
1	0150	23	301.	1	0805	98	484.	1	1420	173	0.	1	2035	248	0.				
1	0155	24	334.	1	0810	99	400.	1	1425	174	0.	1	2040	249	0.				
1	0200	25	364.	1	0815	100	329.	1	1430	175	0.	1	2045	250	0.				
1	0205	26	402.	1	0820	101	270.	1	1435	176	0.	1	2050	251	0.				
1	0210	27	459.	1	0825	102	222.	1	1440	177	0.	1	2055	252	0.				
1	0215	28	545.	1	0830	103	182.	1	1445	178	0.	1	2100	253	0.				
1	0220	29	664.	1	0835	104	149.	1	1450	179	0.	1	2105	254	0.				
1	0225	30	791.	1	0840	105	123.	1	1455	180	0.	1	2110	255	0.				
1	0230	31	907.	1	0845	106	100.	1	1500	181	0.	1	2115	256	0.				
1	0235	32	1005.	1	0850	107	82.	1	1505	182	0.	1	2120	257	0.				
1	0240	33	1114.	1	0855	108	67.	1	1510	183	0.	1	2125	258	0.				
1	0245	34	1260.	1	0900	109	55.	1	1515	184	0.	1	2130	259	0.				
1	0250	35	1424.	1	0905	110	44.	1	1520	185	0.	1	2135	260	0.				
1	0255	36	1568.	1	0910	111	36.	1	1525	186	0.	1	2140	261	0.				
1	0300	37	1696.	1	0915	112	29.	1	1530	187	0.	1	2145	262	0.				
1	0305	38	1855.	1	0920	113	23.	1	1535	188	0.	1	2150	263	0.				
1	0310	39	2099.	1	0925	114	18.	1	1540	189	0.	1	2155	264	0.				
1	0315	40	2457.	1	0930	115	14.	1	1545	190	0.	1	2200	265	0.				
1	0320	41	3017.	1	0935	116	11.	1	1550	191	0.	1	2205	266	0.				
1	0325	42	3882.	1	0940	117	8.	1	1555	192	0.	1	2210	267	0.				
1	0330	43	5009.	1	0945	118	6.	1	1600	193	0.	1	2215	268	0.				
1	0335	44	6183.	1	0950	119	5.	1	1605	194	0.	1	2220	269	0.				
1	0340	45	7014.	1	0955	120	4.	1	1610	195	0.	1	2225	270	0.				
1	0345	46	7667.	1	1000	121	3.	1	1615	196	0.	1	2230	271	0.				
1	0350	47	8466.	1	1005	122	2.	1	1620	197	0.	1	2235	272	0.				

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0355	48	9467.	1		1010	123	2.	1		1625	198	0.	1		2240	273	0.
1		0400	49	10707.	1		1015	124	1.	1		1630	199	0.	1		2245	274	0.
1		0405	50	12164.	1		1020	125	1.	1		1635	200	0.	1		2250	275	0.
1		0410	51	13726.	1		1025	126	1.	1		1640	201	0.	1		2255	276	0.
1		0415	52	15384.	1		1030	127	0.	1		1645	202	0.	1		2300	277	0.
1		0420	53	17188.	1		1035	128	0.	1		1650	203	0.	1		2305	278	0.
1		0425	54	19126.	1		1040	129	0.	1		1655	204	0.	1		2310	279	0.
1		0430	55	21178.	1		1045	130	0.	1		1700	205	0.	1		2315	280	0.
1		0435	56	23267.	1		1050	131	0.	1		1705	206	0.	1		2320	281	0.
1		0440	57	25200.	1		1055	132	0.	1		1710	207	0.	1		2325	282	0.
1		0445	58	26811.	1		1100	133	0.	1		1715	208	0.	1		2330	283	0.
1		0450	59	28035.	1		1105	134	0.	1		1720	209	0.	1		2335	284	0.
1		0455	60	28807.	1		1110	135	0.	1		1725	210	0.	1		2340	285	0.
1		0500	61	29016.	1		1115	136	0.	1		1730	211	0.	1		2345	286	0.
1		0505	62	28645.	1		1120	137	0.	1		1735	212	0.	1		2350	287	0.
1		0510	63	27777.	1		1125	138	0.	1		1740	213	0.	1		2355	288	0.
1		0515	64	26533.	1		1130	139	0.	1		1745	214	0.	2		0000	289	0.
1		0520	65	25038.	1		1135	140	0.	1		1750	215	0.	2		0005	290	0.
1		0525	66	23416.	1		1140	141	0.	1		1755	216	0.	2		0010	291	0.
1		0530	67	21772.	1		1145	142	0.	1		1800	217	0.	2		0015	292	0.
1		0535	68	20180.	1		1150	143	0.	1		1805	218	0.	2		0020	293	0.
1		0540	69	18695.	1		1155	144	0.	1		1810	219	0.	2		0025	294	0.
1		0545	70	17352.	1		1200	145	0.	1		1815	220	0.	2		0030	295	0.
1		0550	71	16154.	1		1205	146	0.	1		1820	221	0.	2		0035	296	0.
1		0555	72	15070.	1		1210	147	0.	1		1825	222	0.	2		0040	297	0.
1		0600	73	14069.	1		1215	148	0.	1		1830	223	0.	2		0045	298	0.
1		0605	74	13119.	1		1220	149	0.	1		1835	224	0.	2		0050	299	0.
1		0610	75	12193.	1		1225	150	0.	1		1840	225	0.	2		0055	300	0.

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)				
		(CFS)			
29016.	5.00	9917.	2496.	2404.	2404.
		(INCHES) 1.685	1.696	1.696	1.696
		(AC-FT) 4918.	4951.	4951.	4951.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .89

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	11143.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	10230.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	9318.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	8417.	1		1245	154	0.	1		1900	229	0.
1		0020	5	0.	1		0635	80	7539.	1		1250	155	0.	1		1905	230	0.
1		0025	6	4.	1		0640	81	6701.	1		1255	156	0.	1		1910	231	0.
1		0030	7	15.	1		0645	82	5916.	1		1300	157	0.	1		1915	232	0.
1		0035	8	31.	1		0650	83	5194.	1		1305	158	0.	1		1920	233	0.
1		0040	9	39.	1		0655	84	4540.	1		1310	159	0.	1		1925	234	0.
1		0045	10	34.	1		0700	85	3954.	1		1315	160	0.	1		1930	235	0.
1		0050	11	26.	1		0705	86	3435.	1		1320	161	0.	1		1935	236	0.
1		0055	12	21.	1		0710	87	2977.	1		1325	162	0.	1		1940	237	0.
1		0100	13	21.	1		0715	88	2573.	1		1330	163	0.	1		1945	238	0.
1		0105	14	25.	1		0720	89	2218.	1		1335	164	0.	1		1950	239	0.
1		0110	15	35.	1		0725	90	1905.	1		1340	165	0.	1		1955	240	0.
1		0115	16	50.	1		0730	91	1630.	1		1345	166	0.	1		2000	241	0.
1		0120	17	66.	1		0735	92	1389.	1		1350	167	0.	1		2005	242	0.
1		0125	18	86.	1		0740	93	1177.	1		1355	168	0.	1		2010	243	0.
1		0130	19	116.	1		0745	94	993.	1		1400	169	0.	1		2015	244	0.
1		0135	20	159.	1		0750	95	833.	1		1405	170	0.	1		2020	245	0.
1		0140	21	205.	1		0755	96	696.	1		1410	171	0.	1		2025	246	0.
1		0145	22	249.	1		0800	97	579.	1		1415	172	0.	1		2030	247	0.
1		0150	23	287.	1		0805	98	479.	1		1420	173	0.	1		2035	248	0.
1		0155	24	319.	1		0810	99	395.	1		1425	174	0.	1		2040	249	0.
1		0200	25	348.	1		0815	100	326.	1		1430	175	0.	1		2045	250	0.
1		0205	26	385.	1		0820	101	268.	1		1435	176	0.	1		2050	251	0.
1		0210	27	440.	1		0825	102	220.	1		1440	177	0.	1		2055	252	0.
1		0215	28	525.	1		0830	103	180.	1		1445	178	0.	1		2100	253	0.
1		0220	29	640.	1		0835	104	148.	1		1450	179	0.	1		2105	254	0.
1		0225	30	765.	1		0840	105	121.	1		1455	180	0.	1		2110	255	0.
1		0230	31	878.	1		0845	106	99.	1		1500	181	0.	1		2115	256	0.
1		0235	32	974.	1		0850	107	81.	1		1505	182	0.	1		2120	257	0.
1		0240	33	1081.	1		0855	108	67.	1		1510	183	0.	1		2125	258	0.
1		0245	34	1224.	1		0900	109	54.	1		1515	184	0.	1		2130	259	0.
1		0250	35	1385.	1		0905	110	44.	1		1520	185	0.	1		2135	260	0.
1		0255	36	1527.	1		0910	111	35.	1		1525	186	0.	1		2140	261	0.
1		0300	37	1652.	1		0915	112	28.	1		1530	187	0.	1		2145	262	0.
1		0305	38	1811.	1		0920	113	22.	1		1535	188	0.	1		2150	263	0.
1		0310	39	2046.	1		0925	114	18.	1		1540	189	0.	1		2155	264	0.
1		0315	40	2399.	1		0930	115	14.	1		1545	190	0.	1		2200	265	0.
1		0320	41	2958.	1		0935	116	10.	1		1550	191	0.	1		2205	266	0.
1		0325	42	3803.	1		0940	117	8.	1		1555	192	0.	1		2210	267	0.

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0330	43	4919.	1		0945	118	6.	1		1600	193	0.	1		2215	268	0.
1		0335	44	6075.	1		0950	119	5.	1		1605	194	0.	1		2220	269	0.
1		0340	45	6891.	1		0955	120	4.	1		1610	195	0.	1		2225	270	0.
1		0345	46	7545.	1		1000	121	3.	1		1615	196	0.	1		2230	271	0.
1		0350	47	8332.	1		1005	122	2.	1		1620	197	0.	1		2235	272	0.
1		0355	48	9318.	1		1010	123	2.	1		1625	198	0.	1		2240	273	0.
1		0400	49	10542.	1		1015	124	1.	1		1630	199	0.	1		2245	274	0.
1		0405	50	11978.	1		1020	125	1.	1		1635	200	0.	1		2250	275	0.
1		0410	51	13525.	1		1025	126	1.	1		1640	201	0.	1		2255	276	0.
1		0415	52	15163.	1		1030	127	0.	1		1645	202	0.	1		2300	277	0.
1		0420	53	16940.	1		1035	128	0.	1		1650	203	0.	1		2305	278	0.
1		0425	54	18858.	1		1040	129	0.	1		1655	204	0.	1		2310	279	0.
1		0430	55	20888.	1		1045	130	0.	1		1700	205	0.	1		2315	280	0.
1		0435	56	22949.	1		1050	131	0.	1		1705	206	0.	1		2320	281	0.
1		0440	57	24862.	1		1055	132	0.	1		1710	207	0.	1		2325	282	0.
1		0445	58	26454.	1		1100	133	0.	1		1715	208	0.	1		2330	283	0.
1		0450	59	27665.	1		1105	134	0.	1		1720	209	0.	1		2335	284	0.
1		0455	60	28434.	1		1110	135	0.	1		1725	210	0.	1		2340	285	0.
1		0500	61	28643.	1		1115	136	0.	1		1730	211	0.	1		2345	286	0.
1		0505	62	28279.	1		1120	137	0.	1		1735	212	0.	1		2350	287	0.
1		0510	63	27428.	1		1125	138	0.	1		1740	213	0.	1		2355	288	0.
1		0515	64	26202.	1		1130	139	0.	1		1745	214	0.	2		0000	289	0.
1		0520	65	24730.	1		1135	140	0.	1		1750	215	0.	2		0005	290	0.
1		0525	66	23129.	1		1140	141	0.	1		1755	216	0.	2		0010	291	0.
1		0530	67	21507.	1		1145	142	0.	1		1800	217	0.	2		0015	292	0.
1		0535	68	19936.	1		1150	143	0.	1		1805	218	0.	2		0020	293	0.
1		0540	69	18472.	1		1155	144	0.	1		1810	219	0.	2		0025	294	0.
1		0545	70	17146.	1		1200	145	0.	1		1815	220	0.	2		0030	295	0.
1		0550	71	15964.	1		1205	146	0.	1		1820	221	0.	2		0035	296	0.
1		0555	72	14895.	1		1210	147	0.	1		1825	222	0.	2		0040	297	0.
1		0600	73	13906.	1		1215	148	0.	1		1830	223	0.	2		0045	298	0.
1		0605	74	12968.	1		1220	149	0.	1		1835	224	0.	2		0050	299	0.
1		0610	75	12053.	1		1225	150	0.	1		1840	225	0.	2		0055	300	0.

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)				
		(CFS)			
28643.	5.00	9785.	2463.	2372.	2372.
		(INCHES) 1.662	1.673	1.673	1.673
		(AC-FT) 4852.	4884.	4884.	4884.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .88

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	10983.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	10084.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	9186.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	8297.	1		1245	154	0.	1		1900	229	0.
1		0020	5	0.	1		0635	80	7433.	1		1250	155	0.	1		1905	230	0.
1		0025	6	3.	1		0640	81	6607.	1		1255	156	0.	1		1910	231	0.
1		0030	7	14.	1		0645	82	5833.	1		1300	157	0.	1		1915	232	0.
1		0035	8	29.	1		0650	83	5121.	1		1305	158	0.	1		1920	233	0.
1		0040	9	37.	1		0655	84	4476.	1		1310	159	0.	1		1925	234	0.
1		0045	10	32.	1		0700	85	3899.	1		1315	160	0.	1		1930	235	0.
1		0050	11	24.	1		0705	86	3387.	1		1320	161	0.	1		1935	236	0.
1		0055	12	19.	1		0710	87	2935.	1		1325	162	0.	1		1940	237	0.
1		0100	13	19.	1		0715	88	2537.	1		1330	163	0.	1		1945	238	0.
1		0105	14	22.	1		0720	89	2187.	1		1335	164	0.	1		1950	239	0.
1		0110	15	32.	1		0725	90	1879.	1		1340	165	0.	1		1955	240	0.
1		0115	16	46.	1		0730	91	1608.	1		1345	166	0.	1		2000	241	0.
1		0120	17	61.	1		0735	92	1369.	1		1350	167	0.	1		2005	242	0.
1		0125	18	79.	1		0740	93	1161.	1		1355	168	0.	1		2010	243	0.
1		0130	19	108.	1		0745	94	979.	1		1400	169	0.	1		2015	244	0.
1		0135	20	149.	1		0750	95	822.	1		1405	170	0.	1		2020	245	0.
1		0140	21	193.	1		0755	96	686.	1		1410	171	0.	1		2025	246	0.
1		0145	22	234.	1		0800	97	571.	1		1415	172	0.	1		2030	247	0.
1		0150	23	271.	1		0805	98	473.	1		1420	173	0.	1		2035	248	0.
1		0155	24	301.	1		0810	99	390.	1		1425	174	0.	1		2040	249	0.
1		0200	25	328.	1		0815	100	321.	1		1430	175	0.	1		2045	250	0.
1		0205	26	363.	1		0820	101	264.	1		1435	176	0.	1		2050	251	0.
1		0210	27	416.	1		0825	102	217.	1		1440	177	0.	1		2055	252	0.
1		0215	28	499.	1		0830	103	178.	1		1445	178	0.	1		2100	253	0.
1		0220	29	611.	1		0835	104	146.	1		1450	179	0.	1		2105	254	0.
1		0225	30	733.	1		0840	105	120.	1		1455	180	0.	1		2110	255	0.
1		0230	31	843.	1		0845	106	98.	1		1500	181	0.	1		2115	256	0.
1		0235	32	936.	1		0850	107	80.	1		1505	182	0.	1		2120	257	0.
1		0240	33	1040.	1		0855	108	66.	1		1510	183	0.	1		2125	258	0.
1		0245	34	1180.	1		0900	109	53.	1		1515	184	0.	1		2130	259	0.
1		0250	35	1336.	1		0905	110	43.	1		1520	185	0.	1		2135	260	0.
1		0255	36	1475.	1		0910	111	35.	1		1525	186	0.	1		2140	261	0.
1		0300	37	1598.	1		0915	112	28.	1		1530	187	0.	1		2145	262	0.

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1	0740	93	1875.	2028.6	3212.8	*	1	1600	193	179.	1902.3	3210.9	*	2	0020	293	175.	1780.6	3208.9
1	0745	94	1600.	2025.1	3212.8	*	1	1605	194	179.	1901.1	3210.8	*	2	0025	294	175.	1779.4	3208.9
1	0750	95	1358.	2022.0	3212.7	*	1	1610	195	179.	1899.9	3210.8	*	2	0030	295	175.	1778.2	3208.9
1	0755	96	1148.	2019.3	3212.7	*	1	1615	196	179.	1898.7	3210.8	*	2	0035	296	175.	1777.0	3208.9
1	0800	97	966.	2017.0	3212.6	*	1	1620	197	179.	1897.4	3210.8	*	2	0040	297	175.	1775.8	3208.9
1	0805	98	810.	2015.0	3212.6	*	1	1625	198	179.	1896.2	3210.8	*	2	0045	298	175.	1774.6	3208.8
1	0810	99	675.	2013.3	3212.6	*	1	1630	199	178.	1895.0	3210.7	*	2	0050	299	175.	1773.4	3208.8
1	0815	100	561.	2011.8	3212.6	*	1	1635	200	178.	1893.7	3210.7	*	2	0055	300	175.	1772.2	3208.8
						*							*						

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PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 31608.	5.17	7425.	1972.	1899.	1899.
		(INCHES) 1.261	1.340	1.340	1.340
		(AC-FT) 3682.	3910.	3911.	3911.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
2316.	5.17	2080.	1680.	1619.	1619.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3216.80	5.17	3213.51	3205.20	3203.58	3203.58

CUMULATIVE AREA = 54.73 SQ MI

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HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .98

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DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE		DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE		DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000	1	0.	.0	3161.0	*	1	0820	101	457.	2010.5	3212.5	*	1	1640	201	178.	1892.4	3210.7
1	0005	2	0.	.0	3161.0	*	1	0825	102	377.	2009.5	3212.5	*	1	1645	202	178.	1891.2	3210.7
1	0010	3	0.	.0	3161.0	*	1	0830	103	311.	2008.6	3212.5	*	1	1650	203	178.	1889.9	3210.7
1	0015	4	0.	.0	3161.0	*	1	0835	104	256.	2007.9	3212.5	*	1	1655	204	178.	1888.7	3210.6
1	0020	5	0.	.0	3161.0	*	1	0840	105	211.	2007.4	3212.5	*	1	1700	205	178.	1887.5	3210.6
1	0025	6	0.	.0	3161.0	*	1	0845	106	182.	2006.9	3212.5	*	1	1705	206	178.	1886.3	3210.6
1	0030	7	0.	.1	3161.0	*	1	0850	107	182.	2006.3	3212.5	*	1	1710	207	178.	1885.0	3210.6
1	0035	8	0.	.4	3161.0	*	1	0855	108	182.	2005.6	3212.5	*	1	1715	208	178.	1883.8	3210.6
1	0040	9	1.	.7	3161.1	*	1	0900	109	182.	2004.8	3212.5	*	1	1720	209	178.	1882.6	3210.5
1	0045	10	1.	1.1	3161.1	*	1	0905	110	182.	2003.9	3212.5	*	1	1725	210	178.	1881.3	3210.5
1	0050	11	2.	1.4	3161.2	*	1	0910	111	182.	2003.0	3212.4	*	1	1730	211	178.	1880.1	3210.5
1	0055	12	2.	1.7	3161.2	*	1	0915	112	182.	2002.0	3212.4	*	1	1735	212	178.	1878.9	3210.5
1	0100	13	2.	1.9	3161.2	*	1	0920	113	182.	2000.9	3212.4	*	1	1740	213	178.	1877.7	3210.5
1	0105	14	2.	2.2	3161.2	*	1	0925	114	182.	1999.8	3212.4	*	1	1745	214	178.	1876.4	3210.5
1	0110	15	3.	2.6	3161.3	*	1	0930	115	182.	1998.7	3212.4	*	1	1750	215	178.	1875.2	3210.4
1	0115	16	3.	3.1	3161.3	*	1	0935	116	182.	1997.5	3212.4	*	1	1755	216	178.	1874.0	3210.4
1	0120	17	4.	3.8	3161.4	*	1	0940	117	182.	1996.3	3212.3	*	1	1800	217	178.	1872.8	3210.4
1	0125	18	5.	4.7	3161.5	*	1	0945	118	182.	1995.1	3212.3	*	1	1805	218	178.	1871.5	3210.4
1	0130	19	6.	5.8	3161.6	*	1	0950	119	182.	1993.9	3212.3	*	1	1810	219	178.	1870.3	3210.4
1	0135	20	8.	7.3	3161.8	*	1	0955	120	182.	1992.7	3212.3	*	1	1815	220	178.	1869.1	3210.3
1	0140	21	10.	9.3	3162.0	*	1	1000	121	182.	1991.5	3212.3	*	1	1820	221	178.	1867.9	3210.3
1	0145	22	11.	11.6	3162.1	*	1	1005	122	181.	1990.3	3212.2	*	1	1825	222	178.	1866.7	3210.3
1	0150	23	13.	14.4	3162.3	*	1	1010	123	181.	1989.0	3212.2	*	1	1830	223	178.	1865.4	3210.3
1	0155	24	14.	17.5	3162.4	*	1	1015	124	181.	1987.8	3212.2	*	1	1835	224	178.	1864.2	3210.3
1	0200	25	16.	20.9	3162.6	*	1	1020	125	181.	1986.5	3212.2	*	1	1840	225	177.	1863.0	3210.2
1	0205	26	17.	24.6	3162.8	*	1	1025	126	181.	1985.3	3212.2	*	1	1845	226	177.	1861.8	3210.2
1	0210	27	19.	28.6	3163.0	*	1	1030	127	181.	1984.1	3212.2	*	1	1850	227	177.	1860.5	3210.2
1	0215	28	22.	33.3	3163.2	*	1	1035	128	181.	1982.8	3212.1	*	1	1855	228	177.	1859.3	3210.2
1	0220	29	24.	38.8	3163.5	*	1	1040	129	181.	1981.6	3212.1	*	1	1900	229	177.	1858.1	3210.2
1	0225	30	27.	45.3	3163.9	*	1	1045	130	181.	1980.3	3212.1	*	1	1905	230	177.	1856.9	3210.1
1	0230	31	31.	52.8	3164.2	*	1	1050	131	181.	1979.1	3212.1	*	1	1910	231	177.	1855.7	3210.1
1	0235	32	35.	61.1	3164.7	*	1	1055	132	181.	1977.8	3212.1	*	1	1915	232	177.	1854.4	3210.1
1	0240	33	39.	70.2	3165.1	*	1	1100	133	181.	1976.6	3212.0	*	1	1920	233	177.	1853.2	3210.1
1	0245	34	44.	80.3	3165.6	*	1	1105	134	181.	1975.3	3212.0	*	1	1925	234	177.	1852.0	3210.1
1	0250	35	50.	91.6	3166.2	*	1	1110	135	181.	1974.1	3212.0	*	1	1930	235	177.	1850.8	3210.0
1	0255	36	56.	104.1	3166.9	*	1	1115	136	181.	1972.8	3212.0	*	1	1935	236	177.	1849.6	3210.0
1	0300	37	59.	117.7	3167.4	*	1	1120	137	181.	1971.6	3212.0	*	1	1940	237	177.	1848.3	3210.0
1	0305	38	62.	132.4	3168.0	*	1	1125	138	181.	1970.3	3211.9	*	1	1945	238	177.	1847.1	3210.0
1	0310	39	65.	148.7	3168.7	*	1	1130	139	181.	1969.1	3211.9	*	1	1950	239	177.	1845.9	3210.0
1	0315	40	68.	167.3	3169.4	*	1	1135	140	181.	1967.8	3211.9	*	1	1955	240	177.	1844.7	3209.9
1	0320	41	72.	189.5	3170.3	*	1	1140	141	181.	1966.6	3211.9	*	1	2000	241	177.	1843.5	3209.9
1	0325	42	77.	217.2	3171.4	*	1	1145	142	181.	1965.4	3211.9	*	1	2005	242	177.	1842.2	3209.9
1	0330	43	83.	252.6	3172.8	*	1	1150	143	181.	1964.1	3211.8	*	1	2010	243	177.	1841.0	3209.9
1	0335	44	89.	296.8	3174.3	*	1	1155	144	181.	1962.9	3211.8	*	1	2015	244	177.	1839.8	3209.9
1	0340	45	96.	348.6	3176.2	*	1	1200	145	181.	1961.6	3211.8	*	1	2020	245	177.	1838.6	3209.9
1	0345	46	102.	405.9	3178.1	*	1	1205	146	181.	1960.4	3211.8	*	1	2025	246	177.	1837.4	3209.8
1	0350	47	108.	468.9	3180.1	*	1	1210	147	181.	1959.1	3211.8	*	1	2030	247	177.	1836.2	3209.8
1	0355	48	115.	538.8	3182.3	*	1	1215	148	180.	1957.9	3211.7	*	1	2035	248	177.	1834.9	3209.8
1	0400	49	121.	617.3	3184.5	*	1	1220	149	180.	1956.7	3211.7	*	1	2040	249	177.	1833.7	3209.8
1	0405	50	128.	706.0	3187.0	*	1	1225	150	180.	1955.4	3211.7	*	1	2045	250	177.	1832.5	3209.8
1	0410	51	134.	806.3	3189.6	*	1	1230	151	180.	1954.2	3211.7	*	1	2050	251	176.	1831.3	3209.7
1	0415	52	141.	918.9	3192.4	*	1	1235	152	180.	1952.9	3211.7	*	1	2055	252	176.	1830.1	3209.7
1	0420	53	147.	1044.7	3195.2	*	1	1240	153	180.	1951.7	3211.6	*	1	2100	253	176.	1828.9	3209.7
1	0425	54	154.	1184.7	3198.2	*	1	1245	154	180.	1950.4	3211.6	*	1	2105	254	176.	1827.6	3209.7
1	0430	55	160.	1339.9	3201.3	*	1	1250	155	180.	1949.2	3211.6	*	1	2110	255	176.	1826.4	3209.7
1	0435	56	166.	1510.9	3204.4	*	1	1255	156	180.	1948.0	3211.6	*	1	2115	256	176.	1825.2	3209.6
1	0440	57	172.	1697.0	3207.6	*	1	1300	157	180.	1946.7	3211.6	*	1	2120	257	176.	1824.0	3209.6
1	0445	58	179.	1896.5	3210.8	*	1	1305	158	180.	1945.5	3211.5	*	1	2125	258	176.	1822.8	3209.6
1	0450	59	6338.	2085.5	3213.6	*	1	1310	159	180.	1944.2	3211.5	*	1	2130	259	176.	1821.6	3209.6
1	0455	60	19921.	2213.9	3215.4	*	1	1315	160	180.	1943.0	3211.5	*	1	2135	260	176.	1820.4	3209.6
1	0500	61	26889.	2275.0	3216.2	*	1	1320	161	180.	1941.8	3211.5	*	1	2140	261	176.	1819.2	3209.5
1	0505	62	29858.	2301.1	3216.6	*	1	1325	162	180.	1940.5	3211.5	*	1	2145	262	176.	1817.9	3209.5
1	0510	63	30745.	2308.8	3216.7	*	1	1330	163	180.	1939.3	3211.4	*	1	2150	263	176.	1816.7	3209.5
1	0515	64	30453.	2306.3	3216.7	*	1	1335	164	180.	1938.0	3211.4	*	1	2155	264	176.	1815.5	3209.5
1	0520	65	29452.	2297.5	3216.5	*	1	1340	165	180.	1936.8	3211.4	*	1	2200	265	176.	1814.3	3209.5
1	0525	66	28024.	2285.0	3216.4	*	1	1345	166	180.	1935.6	3211.4	*	1	2205	266	176.	1813.1	3209.4
1	0530	67	26366.	2270.4	3216.2	*	1	1350	167	180.	1934.3	3211.4	*	1	2210	267	176.	1811.9	3209.4
1	0535	68	24618.	2255.1	3215.9	*	1	1355	168	180.	1933.1	3211.4	*	1	2215	268	176.	1810.7	3209.4
1	0540	69	22883.	2239.9	3215.7	*	1	1400	169	180.	1931.9	3211.3	*	1	2220	269	176.	1809.5	3209.4
1	0545	70	21234.	2225.4	3215.5	*	1	1405	170	180.	1930.6	3211.3	*	1	2225	270	176.	1808.2	3209.4
1	0550	71	19712.	2212.0	3215.3	*	1	1410	171	180.	1929.4	3211.3	*	1	2230	271	176.	1807.0	3209.3
1	0555	72	18330.	2199.9	3215.2	*	1	1415	172	180.	1928.1	3211.3	*	1	2235	272	176.	1805.8	3209.3
1	0600	73	17070.	2188.8	3215.0	*	1	1420	173	180.	1926.9	3211.3	*	1	2240	273	176.	1804.6	3209.3
1	0605	74	15907.	2178.6	3214.9	*	1	1425	174	179.	1925.7	3211.2	*	1	2245	274	176.	1803.4	3209.3
1	0610	75	14811.	2169.0	3214.8	*	1	1430	175	179.	1924.4	3211.2	*	1	2250	275	176.	1802.2	3209.3
1	0615	76	13754.	2159.8	3214.6	*	1	1435	176	179.	1923.2	3211.2	*	1	2255	276	176.	1801.0	3209.3
1	0620	77	12716.	2150.6	3214.5	*	1	1440	177	179.	1922.0	3211.2	*	1	2300	277	175.	1799.8	3209.2
1	0625	78	11687.	2141.6	3214.4	*	1	1445	178	179.	1920.7	3211.2	*	1	2305	278	175.	1798.6	3209.2
1	0630	79	10666.	2132.7	3214.2	*	1	1450	179	179.	1919.5	3211.1	*	1	2310	279	175.	1797.4	3209.2
1	0635	80	9661.	2123.8	3214.1	*	1	1455	180	179.	1918.3	3211.1	*	1	2315	280	175.	1796.2	3209.2
1	0640	81	8682.	2115.2	3214.0	*	1	1500	181	179.	1917.0	3211.1	*	1	2320	281	175.	1795.0	3209.2
1	0645	82	7968.	2106.3	3213.9	*	1	1505	182	179.	1915.8	3211.1	*	1	2325	282	175.	1793.7	3209.1
1	0650	83	7207.	2096.6	3213.7	*	1	1510	183	179.	1914.6	3211.1	*	1	2330	283	175.	1792.5	3209.1
1	0655	84	6444.	2086.8	3213.6	*	1	1515	184	179.	1913.3	3211.0	*	1	2335	284	175.	1791.3	3209.1
1	0700	85	5711.	2077.5	3213.5	*	1	1520	185	179.	1912.1	3211.0	*	1	2340	285	175.	1790.1	3209.1
1	0705	86	5029.	2068.8	3213.4	*	1	1525	186	179.	1910.9	3211.0	*	1	2345	286	175.	1788.9	3209.1
1	0710	87	4406.	2060.8	3213.2	*	1	1530	187	179.	1909.6	3211.0	*	1	2350	287	175.	1787.7	3209.0
1	0715	88	3843.	2053.7	3213.1	*	1	1535	188	179.	1908.4	3211.0	*	1	2355	288	175.	1786.5	3209.0
1	0720	89	3341.	2047.3	3213.1	*	1	1540	189	179.	1907.2	3210.9	*	2	0000	289	175.	1785.3	3209.0
1	0725	90	2894.	2041.6	3213.0	*	1	1545	190	179.	1905.9	3210.9	*	2	0005	290	175.	1784.1	3209.0
1	0730	91	2498.	2036.5	3212.9	*	1	1550	191	179.	1904.7	3210.9	*	2	0010	291	175.	1782.9	3209.0
1	0735	92	2149.	2032.1	3212.8	*	1	1555	192	179.	1903.5	3210.9	*	2	0015	292	175.	1781.7	3208.9
1	0740	93	1841.	2028.1	3212.8	*	1	1600	193	179.	1902.2	3210.9	*	2	0020	293	175.	1780.5	3208.9
1	0745	94	1570.	2024.7	3212.7	*	1	1605	194	179.	1901.0	3210.8	*	2	0025	294	175.	1779.3	3208.9
1	0750	95	1334.	2021.7	3212.7	*	1	1610	195	179.	1899.8	3210.8	*	2	0030	295	175.	1778.1	3208.9
1	0755	96	1127.	2019.1	3212.7	*	1	1615	196	179.	1898.5	3210.8	*	2	0035	296	175.	1776.9	3208.9
1	0800	97	949.	2016.8	3212.6	*	1	1620	197	179.	1897.3	3210.8	*	2	0040	297	175.	1775.7	3208.9
1	0805	98	795.	2014.8	3212.6	*	1	1625	198	179.	1896.1	3210.8	*	2	0045	298	175.	1774.5	3208.8
1	0810	99	663.	2013.1	3212.6	*	1	1630	199	178.	1894.9	3210.7	*	2	0050	299	175.	1773.3	3208.8
1	0815	100	551.	2011.7	3212.6	*	1	1635	200	178.	1893.6	3210.7	*	2	0055	300	175.	1772.1	3208.8
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PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 30745.	5.17	7170.	1908.	1837.	1837.
		(INCHES) 1.218	1.296	1.296	1.296
		(AC-FT) 3555.	3783.	3784.	3784.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
2309.	5.17	2077.	1678.	1616.	1616.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3216.69	5.17	3213.47	3205.14	3203.52	3203.52

CUMULATIVE AREA = 54.73 SQ MI

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HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .95

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DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE		DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE		DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000	1	0.	.0	3161.0	*	1	0820	101	443.	2010.3	3212.5	*	1	1640	201	178.	1892.2	3210.7
1	0005	2	0.	.0	3161.0	*	1	0825	102	366.	2009.3	3212.5	*	1	1645	202	178.	1891.0	3210.7
1	0010	3	0.	.0	3161.0	*	1	0830	103	302.	2008.5	3212.5	*	1	1650	203	178.	1889.7	3210.7
1	0015	4	0.	.0	3161.0	*	1	0835	104	248.	2007.8	3212.5	*	1	1655	204	178.	1888.5	3210.6
1	0020	5	0.	.0	3161.0	*	1	0840	105	204.	2007.3	3212.5	*	1	1700	205	178.	1887.3	3210.6
1	0025	6	0.	.0	3161.0	*	1	0845	106	182.	2006.8	3212.5	*	1	1705	206	178.	1886.1	3210.6
1	0030	7	0.	.1	3161.0	*	1	0850	107	182.	2006.2	3212.5	*	1	1710	207	178.	1884.8	3210.6
1	0035	8	0.	.3	3161.0	*	1	0855	108	182.	2005.5	3212.5	*	1	1715	208	178.	1883.6	3210.6
1	0040	9	1.	.6	3161.1	*	1	0900	109	182.	2004.7	3212.5	*	1	1720	209	178.	1882.4	3210.5
1	0045	10	1.	1.0	3161.1	*	1	0905	110	182.	2003.8	3212.5	*	1	1725	210	178.	1881.2	3210.5
1	0050	11	1.	1.2	3161.1	*	1	0910	111	182.	2002.8	3212.4	*	1	1730	211	178.	1879.9	3210.5
1	0055	12	2.	1.5	3161.2	*	1	0915	112	182.	2001.8	3212.4	*	1	1735	212	178.	1878.7	3210.5
1	0100	13	2.	1.7	3161.2	*	1	0920	113	182.	2000.7	3212.4	*	1	1740	213	178.	1877.5	3210.5
1	0105	14	2.	1.9	3161.2	*	1	0925	114	182.	1999.6	3212.4	*	1	1745	214	178.	1876.3	3210.4

1	0110	15	2.	2.2	3161.2	*	1	0930	115	182.	1998.5	3212.4	*	1	1750	215	178.	1875.0	3210.4
1	0115	16	3.	2.7	3161.3	*	1	0935	116	182.	1997.3	3212.4	*	1	1755	216	178.	1873.8	3210.4
1	0120	17	4.	3.3	3161.4	*	1	0940	117	182.	1996.2	3212.3	*	1	1800	217	178.	1872.6	3210.4
1	0125	18	4.	4.0	3161.4	*	1	0945	118	182.	1995.0	3212.3	*	1	1805	218	178.	1871.4	3210.4
1	0130	19	6.	5.0	3161.6	*	1	0950	119	182.	1993.7	3212.3	*	1	1810	219	178.	1870.1	3210.4
1	0135	20	7.	6.3	3161.7	*	1	0955	120	182.	1992.5	3212.3	*	1	1815	220	178.	1868.9	3210.3
1	0140	21	9.	8.0	3161.9	*	1	1000	121	182.	1991.3	3212.3	*	1	1820	221	178.	1867.7	3210.3
1	0145	22	11.	10.1	3162.1	*	1	1005	122	181.	1990.1	3212.2	*	1	1825	222	178.	1866.5	3210.3
1	0150	23	12.	12.5	3162.2	*	1	1010	123	181.	1988.8	3212.2	*	1	1830	223	178.	1865.2	3210.3
1	0155	24	13.	15.2	3162.3	*	1	1015	124	181.	1987.6	3212.2	*	1	1835	224	178.	1864.0	3210.3
1	0200	25	14.	18.2	3162.5	*	1	1020	125	181.	1986.3	3212.2	*	1	1840	225	177.	1862.8	3210.2
1	0205	26	16.	21.5	3162.6	*	1	1025	126	181.	1985.1	3212.2	*	1	1845	226	177.	1861.6	3210.2
1	0210	27	18.	25.1	3162.8	*	1	1030	127	181.	1983.9	3212.1	*	1	1850	227	177.	1860.4	3210.2
1	0215	28	20.	29.3	3163.0	*	1	1035	128	181.	1982.6	3212.1	*	1	1855	228	177.	1859.1	3210.2
1	0220	29	22.	34.3	3163.3	*	1	1040	129	181.	1981.4	3212.1	*	1	1900	229	177.	1857.9	3210.2
1	0225	30	25.	40.2	3163.6	*	1	1045	130	181.	1980.1	3212.1	*	1	1905	230	177.	1856.7	3210.1
1	0230	31	28.	47.0	3163.9	*	1	1050	131	181.	1978.9	3212.1	*	1	1910	231	177.	1855.5	3210.1
1	0235	32	32.	54.6	3164.3	*	1	1055	132	181.	1977.6	3212.1	*	1	1915	232	177.	1854.2	3210.1
1	0240	33	36.	63.0	3164.8	*	1	1100	133	181.	1976.4	3212.0	*	1	1920	233	177.	1853.0	3210.1
1	0245	34	40.	72.4	3165.2	*	1	1105	134	181.	1975.1	3212.0	*	1	1925	234	177.	1851.8	3210.1
1	0250	35	45.	82.9	3165.8	*	1	1110	135	181.	1973.9	3212.0	*	1	1930	235	177.	1850.6	3210.0
1	0255	36	51.	94.5	3166.4	*	1	1115	136	181.	1972.6	3212.0	*	1	1935	236	177.	1849.4	3210.0
1	0300	37	57.	107.1	3167.0	*	1	1120	137	181.	1971.4	3212.0	*	1	1940	237	177.	1848.1	3210.0
1	0305	38	60.	120.8	3167.6	*	1	1125	138	181.	1970.1	3211.9	*	1	1945	238	177.	1846.9	3210.0
1	0310	39	62.	136.0	3168.2	*	1	1130	139	181.	1968.9	3211.9	*	1	1950	239	177.	1845.7	3210.0
1	0315	40	66.	153.5	3168.9	*	1	1135	140	181.	1967.7	3211.9	*	1	1955	240	177.	1844.5	3209.9
1	0320	41	69.	174.3	3169.7	*	1	1140	141	181.	1966.4	3211.9	*	1	2000	241	177.	1843.3	3209.9
1	0325	42	74.	200.5	3170.8	*	1	1145	142	181.	1965.2	3211.9	*	1	2005	242	177.	1842.1	3209.9
1	0330	43	80.	234.0	3172.1	*	1	1150	143	181.	1963.9	3211.8	*	1	2010	243	177.	1840.8	3209.9
1	0335	44	86.	276.1	3173.6	*	1	1155	144	181.	1962.7	3211.8	*	1	2015	244	177.	1839.6	3209.9
1	0340	45	93.	325.4	3175.3	*	1	1200	145	181.	1961.4	3211.8	*	1	2020	245	177.	1838.4	3209.8
1	0345	46	100.	380.2	3177.3	*	1	1205	146	181.	1960.2	3211.8	*	1	2025	246	177.	1837.2	3209.8
1	0350	47	106.	440.3	3179.2	*	1	1210	147	181.	1958.9	3211.8	*	1	2030	247	177.	1836.0	3209.8
1	0355	48	112.	507.1	3181.3	*	1	1215	148	180.	1957.7	3211.7	*	1	2035	248	177.	1834.8	3209.8
1	0400	49	118.	582.2	3183.5	*	1	1220	149	180.	1956.5	3211.7	*	1	2040	249	177.	1833.5	3209.8
1	0405	50	125.	667.2	3185.9	*	1	1225	150	180.	1955.2	3211.7	*	1	2045	250	177.	1832.3	3209.8
1	0410	51	132.	763.3	3188.5	*	1	1230	151	180.	1954.0	3211.7	*	1	2050	251	176.	1831.1	3209.7
1	0415	52	138.	871.2	3191.2	*	1	1235	152	180.	1952.7	3211.7	*	1	2055	252	176.	1829.9	3209.7
1	0420	53	144.	991.9	3194.0	*	1	1240	153	180.	1951.5	3211.6	*	1	2100	253	176.	1828.7	3209.7
1	0425	54	151.	1126.4	3197.0	*	1	1245	154	180.	1950.3	3211.6	*	1	2105	254	176.	1827.5	3209.7
1	0430	55	158.	1275.5	3200.0	*	1	1250	155	180.	1949.0	3211.6	*	1	2110	255	176.	1826.2	3209.7
1	0435	56	164.	1439.9	3203.1	*	1	1255	156	180.	1947.8	3211.6	*	1	2115	256	176.	1825.0	3209.6
1	0440	57	170.	1618.9	3206.3	*	1	1300	157	180.	1946.5	3211.6	*	1	2120	257	176.	1823.8	3209.6
1	0445	58	176.	1810.9	3209.4	*	1	1305	158	180.	1945.3	3211.5	*	1	2125	258	176.	1822.6	3209.6
1	0450	59	566.	2011.9	3212.6	*	1	1310	159	180.	1944.0	3211.5	*	1	2130	259	176.	1821.4	3209.6
1	0455	60	14869.	2169.5	3214.8	*	1	1315	160	180.	1942.8	3211.5	*	1	2135	260	176.	1820.2	3209.6
1	0500	61	24024.	2249.9	3215.9	*	1	1320	161	180.	1941.6	3211.5	*	1	2140	261	176.	1819.0	3209.5
1	0505	62	27955.	2284.4	3216.4	*	1	1325	162	180.	1940.3	3211.5	*	1	2145	262	176.	1817.8	3209.5
1	0510	63	29284.	2296.0	3216.5	*	1	1330	163	180.	1939.1	3211.4	*	1	2150	263	176.	1816.5	3209.5
1	0515	64	29213.	2295.4	3216.5	*	1	1335	164	180.	1937.9	3211.4	*	1	2155	264	176.	1815.3	3209.5
1	0520	65	28344.	2287.8	3216.4	*	1	1340	165	180.	1936.6	3211.4	*	1	2200	265	176.	1814.1	3209.5
1	0525	66	27013.	2276.1	3216.2	*	1	1345	166	180.	1935.4	3211.4	*	1	2205	266	176.	1812.9	3209.4
1	0530	67	25437.	2262.3	3216.0	*	1	1350	167	180.	1934.1	3211.4	*	1	2210	267	176.	1811.7	3209.4
1	0535	68	23764.	2247.6	3215.8	*	1	1355	168	180.	1932.9	3211.3	*	1	2215	268	176.	1810.5	3209.4
1	0540	69	22098.	2233.0	3215.6	*	1	1400	169	180.	1931.7	3211.3	*	1	2220	269	176.	1809.3	3209.4
1	0545	70	20513.	2219.1	3215.4	*	1	1405	170	180.	1930.4	3211.3	*	1	2225	270	176.	1808.1	3209.4
1	0550	71	19049.	2206.2	3215.3	*	1	1410	171	180.	1929.2	3211.3	*	1	2230	271	176.	1806.9	3209.3
1	0555	72	17717.	2194.5	3215.1	*	1	1415	172	180.	1928.0	3211.3	*	1	2235	272	176.	1805.6	3209.3
1	0600	73	16504.	2183.9	3215.0	*	1	1420	173	179.	1926.7	3211.2	*	1	2240	273	176.	1804.4	3209.3
1	0605	74	15384.	2174.1	3214.8	*	1	1425	174	179.	1925.5	3211.2	*	1	2245	274	176.	1803.2	3209.3
1	0610	75	14327.	2164.8	3214.7	*	1	1430	175	179.	1924.2	3211.2	*	1	2250	275	176.	1802.0	3209.3
1	0615	76	13307.	2155.8	3214.6	*	1	1435	176	179.	1923.0	3211.2	*	1	2255	276	176.	1800.8	3209.3
1	0620	77	12305.	2147.0	3214.4	*	1	1440	177	179.	1921.8	3211.2	*	1	2300	277	175.	1799.6	3209.2
1	0625	78	11311.	2138.3	3214.3	*	1	1445	178	179.	1920.5	3211.2	*	1	2305	278	175.	1798.4	3209.2
1	0630	79	10325.	2129.7	3214.2	*	1	1450	179	179.	1919.3	3211.1	*	1	2310	279	175.	1797.2	3209.2
1	0635	80	9352.	2121.1	3214.1	*	1	1455	180	179.	1918.1	3211.1	*	1	2315	280	175.	1796.0	3209.2
1	0640	81	8467.	2112.6	3214.0	*	1	1500	181	179.	1916.8	3211.1	*	1	2320	281	175.	1794.8	3209.2
1	0645	82	7757.	2103.6	3213.8	*	1	1505	182	179.	1915.6	3211.1	*	1	2325	282	175.	1793.6	3209.1
1	0650	83	7003.	2094.0	3213.7	*	1	1510	183	179.	1914.4	3211.1	*	1	2330	283	175.	1792.4	3209.1
1	0655	84	6254.	2084.4	3213.6	*	1	1515	184	179.	1913.1	3211.0	*	1	2335	284	175.	1791.1	3209.1
1	0700	85	5539.	2075.3	3213.4	*	1	1520	185	179.	1911.9	3211.0	*	1	2340	285	175.	1789.9	3209.1
1	0705	86	4875.	2066.8	3213.3	*	1	1525	186	179.	1910.7	3211.0	*	1	2345	286	175.	1788.7	3209.1
1	0710	87	4270.	2059.1	3213.2	*	1	1530	187	179.	1909.4	3211.0	*	1	2350	287	175.	1787.5	3209.0
1	0715	88	3724.	2052.2	3213.1	*	1	1535	188	179.	1908.2	3211.0	*	1	2355	288	175.	1786.3	3209.0
1	0720	89	3237.	2045.9	3213.0	*	1	1540	189	179.	1907.0	3210.9	*	2	0000	289	175.	1785.1	3209.0
1	0725	90	2804.	2040.4	3213.0	*	1	1545	190	179.	1905.7	3210.9	*	2	0005	290	175.	1783.9	3209.0
1	0730	91	2420.	2035.5	3212.9	*	1	1550	191	179.	1904.5	3210.9	*	2	0010	291	175.	1782.7	3209.0
1	0735	92	2082.	2031.2	3212.8	*	1	1555	192	179.	1903.3	3210.9	*	2	0015	292	175.	1781.5	3208.9
1	0740	93	1783.	2027.4	3212.8	*	1	1600	193	179.	1902.0	3210.9	*	2	0020	293	175.	1780.3	3208.9
1	0745	94	1521.	2024.1	3212.7	*	1	1605	194	179.	1900.8	3210.8	*	2	0025	294	175.	1779.1	3208.9
1	0750	95	1292.	2021.2	3212.7	*	1	1610	195	179.	1899.6	3210.8	*	2	0030	295	175.	1777.9	3208.9
1	0755	96	1092.	2018.6	3212.7	*	1	1615	196	179.	1898.4	3210.8	*	2	0035	296	175.	1776.7	3208.9
1	0800	97	919.	2016.4	3212.6	*	1	1620	197	179.	1897.1	3210.8	*	2	0040	297	175.	1775.5	3208.8
1	0805	98	770.	2014.5	3212.6	*	1	1625	198	179.	1895.9	3210.8	*	2	0045	298	175.	1774.3	3208.8
1	0810	99	643.	2012.9	3212.6	*	1	1630	199	178.	1894.7	3210.7	*	2	0050	299	175.	1773.1	3208.8
1	0815	100	534.	2011.5	3212.6	*	1	1635	200	178.	1893.4	3210.7	*	2	0055	300	175.	1771.9	3208.8
						*							*						

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 29284.	5.17	6747.	1801.	1735.	1735.

	(INCHES)	1.146	1.224	1.224	1.224
	(AC-FT)	3345.	3573.	3573.	3573.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
2296.	5.17	2073.	1674.	1612.	1612.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3216.51	5.17	3213.42	3205.04	3203.42	3203.42

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .93

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE		DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE		DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000		1	0.	.0	3161.0	*	1	0820		101	428.	2010.1	3212.5	*	1	1640		201	178.	1892.0	3210.7
1	0005		2	0.	.0	3161.0	*	1	0825		102	354.	2009.2	3212.5	*	1	1645		202	178.	1890.8	3210.7
1	0010		3	0.	.0	3161.0	*	1	0830		103	292.	2008.4	3212.5	*	1	1650		203	178.	1889.6	3210.7
1	0015		4	0.	.0	3161.0	*	1	0835		104	240.	2007.7	3212.5	*	1	1655		204	178.	1888.3	3210.6
1	0020		5	0.	.0	3161.0	*	1	0840		105	198.	2007.2	3212.5	*	1	1700		205	178.	1887.1	3210.6
1	0025		6	0.	.0	3161.0	*	1	0845		106	182.	2006.7	3212.5	*	1	1705		206	178.	1885.9	3210.6
1	0030		7	0.	.1	3161.0	*	1	0850		107	182.	2006.1	3212.5	*	1	1710		207	178.	1884.7	3210.6
1	0035		8	0.	.3	3161.0	*	1	0855		108	182.	2005.4	3212.5	*	1	1715		208	178.	1883.4	3210.6
1	0040		9	1.	.6	3161.1	*	1	0900		109	182.	2004.5	3212.5	*	1	1720		209	178.	1882.2	3210.5
1	0045		10	1.	.9	3161.1	*	1	0905		110	182.	2003.6	3212.4	*	1	1725		210	178.	1881.0	3210.5
1	0050		11	1.	1.1	3161.1	*	1	0910		111	182.	2002.7	3212.4	*	1	1730		211	178.	1879.7	3210.5
1	0055		12	1.	1.3	3161.1	*	1	0915		112	182.	2001.6	3212.4	*	1	1735		212	178.	1878.5	3210.5
1	0100		13	2.	1.4	3161.2	*	1	0920		113	182.	2000.6	3212.4	*	1	1740		213	178.	1877.3	3210.5
1	0105		14	2.	1.6	3161.2	*	1	0925		114	182.	1999.5	3212.4	*	1	1745		214	178.	1876.1	3210.4
1	0110		15	2.	1.9	3161.2	*	1	0930		115	182.	1998.3	3212.4	*	1	1750		215	178.	1874.8	3210.4
1	0115		16	3.	2.3	3161.3	*	1	0935		116	182.	1997.2	3212.4	*	1	1755		216	178.	1873.6	3210.4
1	0120		17	3.	2.7	3161.3	*	1	0940		117	182.	1996.0	3212.3	*	1	1800		217	178.	1872.4	3210.4
1	0125		18	4.	3.4	3161.4	*	1	0945		118	182.	1994.8	3212.3	*	1	1805		218	178.	1871.2	3210.4
1	0130		19	5.	4.2	3161.5	*	1	0950		119	182.	1993.6	3212.3	*	1	1810		219	178.	1869.9	3210.3
1	0135		20	6.	5.3	3161.6	*	1	0955		120	182.	1992.3	3212.3	*	1	1815		220	178.	1868.7	3210.3
1	0140		21	8.	6.8	3161.8	*	1	1000		121	182.	1991.1	3212.3	*	1	1820		221	178.	1867.5	3210.3
1	0145		22	10.	8.6	3162.0	*	1	1005		122	181.	1989.9	3212.2	*	1	1825		222	178.	1866.3	3210.3
1	0150		23	11.	10.7	3162.1	*	1	1010		123	181.	1988.6	3212.2	*	1	1830		223	178.	1865.1	3210.3
1	0155		24	12.	13.1	3162.2	*	1	1015		124	181.	1987.4	3212.2	*	1	1835		224	178.	1863.8	3210.3
1	0200		25	13.	15.7	3162.3	*	1	1020		125	181.	1986.2	3212.2	*	1	1840		225	177.	1862.6	3210.2
1	0205		26	15.	18.6	3162.5	*	1	1025		126	181.	1984.9	3212.2	*	1	1845		226	177.	1861.4	3210.2
1	0210		27	16.	21.8	3162.7	*	1	1030		127	181.	1983.7	3212.1	*	1	1850		227	177.	1860.2	3210.2
1	0215		28	18.	25.6	3162.8	*	1	1035		128	181.	1982.4	3212.1	*	1	1855		228	177.	1858.9	3210.2
1	0220		29	20.	30.0	3163.1	*	1	1040		129	181.	1981.2	3212.1	*	1	1900		229	177.	1857.7	3210.2
1	0225		30	23.	35.4	3163.3	*	1	1045		130	181.	1979.9	3212.1	*	1	1905		230	177.	1856.5	3210.1
1	0230		31	26.	41.6	3163.7	*	1	1050		131	181.	1978.7	3212.1	*	1	1910		231	177.	1855.3	3210.1
1	0235		32	29.	48.6	3164.0	*	1	1055		132	181.	1977.4	3212.1	*	1	1915		232	177.	1854.1	3210.1
1	0240		33	33.	56.3	3164.4	*	1	1100		133	181.	1976.2	3212.0	*	1	1920		233	177.	1852.8	3210.1
1	0245		34	37.	64.9	3164.9	*	1	1105		134	181.	1974.9	3212.0	*	1	1925		234	177.	1851.6	3210.1
1	0250		35	41.	74.6	3165.3	*	1	1110		135	181.	1973.7	3212.0	*	1	1930		235	177.	1850.4	3210.0
1	0255		36	47.	85.3	3165.9	*	1	1115		136	181.	1972.4	3212.0	*	1	1935		236	177.	1849.2	3210.0
1	0300		37	52.	97.0	3166.5	*	1	1120		137	181.	1971.2	3212.0	*	1	1940		237	177.	1848.0	3210.0
1	0305		38	58.	109.8	3167.1	*	1	1125		138	181.	1970.0	3211.9	*	1	1945		238	177.	1846.7	3210.0
1	0310		39	60.	123.9	3167.7	*	1	1130		139	181.	1968.7	3211.9	*	1	1950		239	177.	1845.5	3210.0
1	0315		40	63.	140.2	3168.3	*	1	1135		140	181.	1967.5	3211.9	*	1	1955		240	177.	1844.3	3209.9
1	0320		41	67.	159.7	3169.1	*	1	1140		141	181.	1966.2	3211.9	*	1	2000		241	177.	1843.1	3209.9
1	0325		42	71.	184.4	3170.1	*	1	1145		142	181.	1965.0	3211.9	*	1	2005		242	177.	1841.9	3209.9
1	0330		43	77.	216.1	3171.4	*	1	1150		143	181.	1963.7	3211.8	*	1	2010		243	177.	1840.7	3209.9
1	0335		44	83.	255.9	3172.9	*	1	1155		144	181.	1962.5	3211.8	*	1	2015		244	177.	1839.4	3209.9
1	0340		45	90.	302.9	3174.5	*	1	1200		145	181.	1961.2	3211.8	*	1	2020		245	177.	1838.2	3209.8
1	0345		46	97.	355.1	3176.4	*	1	1205		146	181.	1960.0	3211.8	*	1	2025		246	177.	1837.0	3209.8
1	0350		47	103.	412.4	3178.3	*	1	1210		147	181.	1958.8	3211.8	*	1	2030		247	177.	1835.8	3209.8
1	0355		48	109.	476.1	3180.3	*	1	1215		148	180.	1957.5	3211.7	*	1	2035		248	177.	1834.6	3209.8
1	0400		49	115.	547.8	3182.5	*	1	1220		149	180.	1956.3	3211.7	*	1	2040		249	177.	1833.4	3209.8
1	0405		50	122.	629.0	3184.8	*	1	1225		150	180.	1955.0	3211.7	*	1	2045		250	176.	1832.1	3209.7
1	0410		51	129.	721.0	3187.4	*	1	1230		151	180.	1953.8	3211.7	*	1	2050		251	176.	1830.9	3209.7
1	0415		52	135.	824.4	3190.0	*	1	1235		152	180.	1952.5	3211.7	*	1	2055		252	176.	1829.7	3209.7
1	0420		53	142.	940.0	3192.8	*	1	1240		153	180.	1951.3	3211.6	*	1	2100		253	176.	1828.5	3209.7
1	0425		54	148.	1068.9	3195.7	*	1	1245		154	180.	1950.1	3211.6	*	1	2105		254	176.	1827.3	3209.7
1	0430		55	155.	1212.0	3198.7	*	1	1250		155	180.	1948.8	3211.6	*	1	2110		255	176.	1826.1	3209.7
1	0435		56	162.	1369.7	3201.9	*	1	1255		156	180.	1947.6	3211.6	*	1	2115		256	176.	1824.8	3209.6
1	0440		57	167.	1541.7	3204.9	*	1	1300		157	180.	1946.3	3211.6	*	1	2120		257	176.	1823.6	3209.6
1	0445		58	173.	1726.2	3208.1	*	1	1305		158	180.	1945.1	3211.5	*	1	2125		258	176.	1822.4	3209.6
1	0450		59	179.	1920.8	3211.2	*	1	1310		159	180.	1943.9	3211.5	*	1	2130		259	176.	1821.2	3209.6
1	0455		60	7302.	2097.8	3213.8	*	1	1315		160	180.	1942.6	3211.5	*	1	2135		260	176.	1820.0	3209.6
1	0500		61	19622.	2211.2	3215.3	*	1	1320		161	180.	1941.4	3211.5	*	1	2140		261	176.	1818.8	3209.5
1	0505		62	25384.	2261.8	3216.0	*	1	1325		162	180.	1940.1	3211.5	*	1	2145		262	176.	1817.6	3209.5
1	0510		63	27531.	2280.6	3216.3	*	1	1330		163	180.	1938.9	3211.4	*	1	2150		263	176.	1816.4	3209.5
1	0515		64	27847.	2283.4	3216.3	*	1	1335		164	180.	1937.7	3211.4	*	1	2155		264	176.	1815.1	3209.5
1	0520		65	27182.	2277.6	3216.3	*	1	1340		165	180.	1936.4	3211.4	*	1	2200		265	176.	1813.9	3209.5
1	0525		66	25980.	2267.0	3216.1	*	1	1345		166	180.	1935.2	3211.4	*	1	2205		266	176.	1812.7	3209.4
1	0530	

| | | |

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .91

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	3161.0
1		0005	2	0.	.0	3161.0
1		0010	3	0.	.0	3161.0
1		0015	4	0.	.0	3161.0
1		0020	5	0.	.0	3161.0
1		0025	6	0.	.0	3161.0
1		0030	7	0.	.1	3161.0
1		0035	8	0.	.3	3161.0
1		0040	9	1.	.5	3161.1
1		0045	10	1.	.8	3161.1
1		0050	11	1.	1.0	3161.1
1		0055	12	1.	1.2	3161.1
1		0100	13	1.	1.3	3161.1
1		0105	14	2.	1.5	3161.2
1		0110	15	2.	1.7	3161.2
1		0115	16	2.	2.0	3161.2
1		0120	17	3.	2.4	3161.3
1		0125	18	3.	3.0	3161.3
1		0130	19	4.	3.7	3161.4
1		0135	20	5.	4.7	3161.5
1		0140	21	7.	6.1	3161.7
1		0145	22	9.	7.7	3161.9
1		0150	23	10.	9.6	3162.0
1		0155	24	11.	11.8	3162.1
1		0200	25	12.	14.2	3162.3
1		0205	26	14.	16.8	3162.4
1		0210	27	15.	19.8	3162.5
1		0215	28	17.	23.2	3162.7
1		0220	29	19.	27.3	3162.9
1		0225	30	21.	32.3	3163.2
1		0230	31	24.	38.1	3163.5
1		0235	32	27.	44.7	3163.8
1		0240	33	31.	51.9	3164.2
1		0245	34	34.	60.0	3164.6
1		0250	35	39.	69.1	3165.1
1		0255	36	44.	79.3	3165.6
1		0300	37	49.	90.4	3166.2
1		0305	38	55.	102.5	3166.8
1		0310	39	59.	115.9	3167.4
1		0315	40	62.	131.4	3168.0
1		0320	41	65.	150.1	3168.7
1		0325	42	69.	173.7	3169.7
1		0330	43	75.	204.2	3170.9
1		0335	44	82.	242.6	3172.4
1		0340	45	88.	288.0	3174.0
1		0345	46	94.	338.4	3175.8
1		0350	47	101.	393.8	3177.7
1		0355	48	107.	455.4	3179.7
1		0400	49	114.	524.8	3181.9
1		0405	50	120.	603.5	3184.1
1		0410	51	127.	692.6	3186.6
1		0415	52	133.	792.9	3189.2
1		0420	53	140.	905.1	3192.0
1		0425	54	146.	1030.3	3194.9
1		0430	55	153.	1169.2	3197.9
1		0435	56	160.	1322.5	3200.9
1		0440	57	166.	1489.7	3204.0
1		0445	58	171.	1669.2	3207.2
1		0450	59	177.	1858.4	3210.2
1		0455	60	3113.	2044.4	3213.0
1		0500	61	15985.	2179.3	3214.9
1		0505	62	23355.	2244.0	3215.8
1		0510	63	26218.	2269.1	3216.1
1		0515	64	26866.	2274.8	3216.2
1		0520	65	26370.	2270.5	3216.2
1		0525	66	25268.	2260.8	3216.0
1		0530	67	23858.	2248.4	3215.9
1		0535	68	22322.	2234.9	3215.7
1		0540	69	20779.	2221.4	3215.5
1		0545	70	19301.	2208.4	3215.3
1		0550	71	17934.	2196.4	3215.1
1		0555	72	16690.	2185.5	3215.0
1		0600	73	15554.	2175.5	3214.8
1		0605	74	14505.	2166.3	3214.7
1		0610	75	13514.	2157.6	3214.6
1		0615	76	12557.	2149.2	3214.5
1		0620	77	11615.	2141.0	3214.4
1		0625	78	10680.	2132.8	3214.2
1		0630	79	9750.	2124.6	3214.1
1		0635	80	8834.	2116.6	3214.0
1		0640	81	8117.	2108.1	3213.9
1		0645	82	7397.	2099.0	3213.8
1		0650	83	6656.	2089.5	3213.6
1		0655	84	5933.	2080.3	3213.5
1		0700	85	5249.	2071.6	3213.4
1		0705	86	4616.	2063.5	3213.3
1		0710	87	4041.	2056.2	3213.2
1		0715	88	3524.	2049.6	3213.1
1		0720	89	3062.	2043.7	3213.0
1		0725	90	2652.	2038.5	3212.9
1		0730	91	2290.	2033.9	3212.9
1		0735	92	1969.	2029.8	3212.8
1		0740	93	1687.	2026.2	3212.8
1		0745	94	1439.	2023.0	3212.7
1		0750	95	1223.	2020.3	3212.7
1		0755	96	1034.	2017.9	3212.7
1		0800	97	870.	2015.8	3212.6
1		0805	98	729.	2014.0	3212.6
1		0810	99	608.	2012.4	3212.6
1		0815	100	506.	2011.1	3212.6
1		0820	101	416.	2010.0	3212.5
1		0825	102	344.	2009.1	3212.5
1		0830	103	284.	2008.3	3212.5
1		0835	104	233.	2007.7	3212.5
1		0840	105	192.	2007.1	3212.5
1		0845	106	182.	2006.6	3212.5
1		0850	107	182.	2006.0	3212.5
1		0855	108	182.	2005.2	3212.5
1		0900	109	182.	2004.4	3212.5
1		0905	110	182.	2003.5	3212.4
1		0910	111	182.	2002.6	3212.4
1		0915	112	182.	2001.5	3212.4
1		0920	113	182.	2000.4	3212.4
1		0925	114	182.	1999.3	3212.4
1		0930	115	182.	1998.2	3212.4
1		0935	116	182.	1997.0	3212.3
1		0940	117	182.	1995.8	3212.3
1		0945	118	182.	1994.6	3212.3
1		0950	119	182.	1993.4	3212.3
1		1000	121	182.	1991.0	3212.3
1		1005	122	181.	1989.7	3212.2
1		1010	123	181.	1988.5	3212.2
1		1015	124	181.	1987.3	3212.2
1		1020	125	181.	1986.0	3212.2
1		1025	126	181.	1984.8	3212.2
1		1030	127	181.	1983.5	3212.1
1		1035	128	181.	1982.3	3212.1
1		1040	129	181.	1981.0	3212.1
1		1045	130	181.	1979.8	3212.1
1		1050	131	181.	1978.6	3212.1
1		1055	132	181.	1977.3	3212.1
1		1100	133	181.	1976.1	3212.0
1		1105	134	181.	1974.8	3212.0
1		1110	135	181.	1973.6	3212.0
1		1115	136	181.	1972.3	3212.0
1		1120	137	181.	1971.1	3212.0
1		1125	138	181.	1969.8	3211.9
1		1130	139	181.	1968.6	3211.9
1		1135	140	181.	1967.3	3211.9
1		1140	141	181.	1966.1	3211.9
1		1145	142	181.	1964.8	3211.9
1		1150	143	181.	1963.6	3211.8
1		1155	144	181.	1962.4	3211.8
1		1200	145	181.	1961.1	3211.8
1		1205	146	181.	1959.9	3211.8
1		1210	147	181.	1958.6	3211.8
1		1215	148	180.	1957.4	3211.7
1		1220	149	180.	1956.1	3211.7
1		1225	150	180.	1954.9	3211.7
1		1230	151	180.	1953.7	3211.7
1		1235	152	180.	1952.4	3211.7
1		1240	153	180.	1951.2	3211.6
1		1245	154	180.	1949.9	3211.6
1		1250	155	180.	1948.7	3211.6
1		1255	156	180.	1947.4	3211.6
1		1300	157	180.	1946.2	3211.6
1		1305	158	180.	1945.0	3211.5
1		1310	159	180.	1943.7	3211.5
1		1315	160	180.	1942.5	3211.5
1		1320	161	180.	1941.2	3211.5
1		1325	162	180.	1940.0	3211.5
1		1330	163	180.	1938.8	3211.4
1		1335	164	180.	1937.5	3211.4
1		1340	165	180.	1936.3	3211.4
1		1345	166	180.	1935.1	3211.4
1		1350	167	180.	1933.8	3211.4
1		1355	168	180.	1932.6	3211.3
1		1400	169	180.	1931.3	3211.3
1		1405	170	180.	1930.1	3211.3
1		1410	171	180.	1928.9	3211.3
1		1415	172	180.	1927.6	3211.3
1		1420	173	179.	1926.4	3211.2
1		1425	174	179.	1925.2	3211.2
1		1430	175	179.	1923.9	3211.2
1		1435	176	179.	1922.7	3211.2
1		1440	177	179.	1921.5	3211.2
1		1445	178	179.	1920.2	3211.1
1		1450	179	179.	1919.0	3211.1
1		1455	180	179.	1917.7	3211.1
1		1500	181	179.	1916.5	3211.1
1		1505	182	179.	1915.3	3211.1
1		1510	183	179.	1914.0	3211.0
1		1515	184	179.	1912.8	3211.0
1		1520	185	179.	1911.6	3211.0
1		1525	186	179.	1910.3	3211.0
1		1530	187	179.	1909.1	3211.0
1		1535	188	179.	1907.9	3211.0
1		1540	189	179.	1906.7	3210.9
1		1545	190	179.	1905.4	3210.9
1		1550	191	179.	1904.2	3210.9
1		1555	192	179.	1903.0	3210.9
1		1600	193	179.	1901.7	3210.9
1		1605	194	179.	1900.5	3210.8
1		1610	195	179.	1899.3	3210.8
1		1615	196	179.	1898.0	3210.8
1		1620	197	179.	1896.8	3210.8
1		1625	198	179.	1895.6	3210.8
1		1630	199	178.	1894.3	3210.7
1		1635	200	178.	1893.1	3210.7
1		1640	201	178.	1891.9	3210.7
1		1645	202	178.	1890.6	3210.7
1		1650	203	178.	1889.4	3210.7
1		1655	204	178.	1888.2	3210.6
1		1700	205	178.	1886.9	3210.6
1		1705	206	178.	1885.7	3210.6
1		1710	207	178.	1884.5	3210.6
1		1715	208	178.	1883.3	3210.6
1		1720	209	178.	1882.0	3210.5
1		1725	210	178.	1880.8	3210.5
1		1730	211	178.	1879.6	3210.5
1		1735	212	178.	1878.4	3210.5
1		1740	213	178.	1877.1	3210.5
1		1745	214	178.	1875.9	3210.4
1		1750	215	178.	1874.7	3210.4
1		1755	216	178.	1873.5	3210.4
1		1800	217	178.	1872.2	3210.4
1		1805	218	178.	1871.0	3210.4
1		1810	219	178.	1869.8	3210.3
1		1815	220	178.	1868.6	3210.3
1		1820	221	178.	1867.3	3210.3
1		1825	222	178.	1866.1	3210.3
1		1830	223	178.	1864.9	3210.3
1		1835	224	177.	1863.7	3210.2
1		1840	225	177.	1862.4	3210.2
1		1845	226	177.	1861.2	3210.2
1		1850	227	177.	1860.0	3210.2
1		1855	228	177.	1858.8	3210.2
1		1900	229	177.	1857.6	3210.2
1		1905	230	177.	1856.4	3210.1
1		1910	231	177.	1855.2	3210.1
1		1915	232	177.	1853.9	3210.1
1		1920	233	177.	1852.7	3210.1
1		1925	234	177.	1851.5	3210.1
1		1930	235	177.	1850.3	3210.0
1		1935	236	177.	1849.1	3210.0
1		1940	237	177.	1847.8	3210.0
1		1945	238	177.	1846.6	3210.0
1		1950	239	177.	1845.4	3210.0
1		1955	240	177.	1844.2	3209.9
1		2000	241	177.	1843.0	3209.9
1		2005	242	177.	1841.7	3209.9
1		2010	243	177.	1840.5	3209.9
1		2015	244	177.	1839.3	3209.9
1		2020	245	177.	1838.1	3209.8
1		2025	246	177.	1836.9	3209.8
1		2030	247	177.	1835.7	3209.8
1		2035	248	177.	1834.4	3209.8
1		2040	249	177.	1833.2	3209.8
1		2045	250	176.	1832.0	3209.7
1		2050	251	176.	1830.8	3209.7
1		2055	252	176.	1829.6	3209.7
1		2100	253	176.	1828.4	3209.7
1		2105	254	176.	1827.1	3209.7
1		2110	255	176.	1825.9	3209.6
1		2115	256	176.	1824.7	3209.6
1		2120	257	176.	1823.5	3209.6
1		2125	258	176.	1822.3	3209.6
1		2130	259	176.	1821.1	3209.6
1		2135	260	176.	1819.9	3209.6
1		2140	261	176.	1818.7	3209.5
1		2145	262	176.	1817.4	3209.5
1		2150	263	176.	1816.2	3209.5
1		2155	264	176.	1815.0	3209.5
1		2200	265	176.	1813.8	3209.5
1		2205	266	176.	1812.6	3209.4
1		2210	267	176.	1811.4	3209.4
1		2215	268	176.	1810.2	3209.4
1		2220	269	176.	1809.0	3209.4
1		2225	270	176.	1807.8	3209.4
1		2230	271	176.	1806.5	3209.3
1		2235	272	176.	1805.3	3209.3
1		2240	273	176.	1804.1	3209.3
1		2245	274	176.	1802.9	3209.3
1		2250	275	176.	1801.7	3209.3
1		2255	276	175.	1800.5	3209.2
1		2300	277	175.	1799.3	3209.2
1		2305	278	175.	1798.1	3209.2
1		2310	279	175.	1796.9	3209.2
1		2315	280	175.	1795.7	3209.2
1		2320	281	175.	1794.5	3209.2
1		2325	282	175.	1793.2	3209.1
1		2330	283	175.	1792.0	3209.1
1		2335	284	175.	1790.8	3209.1
1		2340	285	175.	1789.6	3209.1
1		2345	286	175.	1788.4	3209.1
1		2350	287	175.	1787.2	3209.0
1		2355	288	175.	1786.0	3209.0
1		0000	289	175.	1784.8	3209.0
1		0005	290	175.	1783.6	3209.0
1		0010	291	175.	1782.4	3209.0
1		0015	292	175.	1781.2	3208.9
1		0020	293	175.	1780.0	3208.9
1		0025	294	175.	1778.8	3208.9
1		0030	295	175.	1777.6	3208.9
1		0035	296	175.	1776.4	3208.9
1		0040	297	175.	1775.2	3208.8
1		0045	298	175.	1774.0	3208.8
1		0050	299	175.	1772.8	3208.8
1		0055	300	175.	1771.6	3208.8

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)				
		(CFS)			
26866.	5.25	6040.	1624.	1564.	1564.
		(INCHES) 1.026	1.103	1.103	1.103
		(AC-FT) 2995.	3221.	3221.	3221.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
(AC-FT)	(HR)				
2275.	5.25	2066.	1666.	1605.	1605.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
(FEET)	(HR)				
3216.22	5.25	3213.31	3204.87	3203.25	3203.25

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .90

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	3161.0
1		0005	2	0.	.0	3161.0
1		0010	3	0.	.0	3161.0
1		0015	4	0.	.0	3161.0
1		0020	5	0.	.0	3161.0
1		0025	6	0.	.0	3161.0
1		0030	7	0.	.1	3161.0
1		0035	8	0.	.2	3161.0
1		0040	9	1.	.5	3161.1
1		0045	10	1.	.8	3161.1
1		0050	11	1.	1.0	3161.1
1		0055	12	1.	1.1	3161.1
1		0100	13	1.	1.3	3161.1
1		0105	14	2.	1.4	3161.2
1		0110	15	2.	1.6	3161.2
1		0115	16	2.	1.9	3161.2
1		0120	17	3.	2.3	3161.3
1		0125	18	3.	2.9	3161.3
1		0130	19	4.	3.6	3161.4
1		0135	20	5.	4.6	3161.5
1		0140	21	6.	5.8	3161.6
1		0145	22	8.	7.4	3161.8
1		0150	23	10.	9.3	3162.0
1		0155	24	11.	11.4	3162.1
1		0200	25	12.	13.7	3162.2
1		0205	26	13.	16.3	3162.4
1		0210	27	15.	19.2	3162.5
1		0215	28	16.	22.5	3162.7
1		0220	29	18.	26.6	3162.9
1		0225	30	21.	31.4	3163.1
1		0230	31	23.	37.1	3163.4
1		0235	32	27.	43.5	3163.8
1		0240	33	30.	50.6	3164.1
1		0245	34	34.	58.6	3164.5
1		0250	35	38.	67.6	3165.0
1		0255	36	43.	77.6	3165.5
1		0300	37	48.	88.5	3166.1
1		0305	38	54.	100.4	3166.7
1		0310	39	58.	113.6	3167.3
1		0315	40	61.	128.9	3167.9
1		0320	41	64.	147.3	3168.6
1		0325	42	69.	170.6	3169.6
1		0330	43	74.	200.8	3170.8
1		0335	44	81.	238.8	3172.3
1		0340	45	87.	283.6	3173.9
1		0345	46	94.	333.6	3175.6
1		0350	47	101.	393.8	3177.5
1		0355	48	107.	455.4	3179.5
1		0400	49	114.	524.8	3181.7
1		0405	50	120.	603.5	3183.9
1		0410	51	127.	692.6	3186.4
1		0415	52	133.	792.9	3189.0
1		0420	53	140.	905.1	3191.8
1		0425	54	146.	1030.3	3194.7
1		0430	55	153.	1169.2	3197.7
1		0435	56	160.	1322.5	3200.7
1		0440	57	166.	1489.7	3203.8
1		0445	58	171.	1669.2	3207.0
1		0450	59	177.	1858.4	3210.0
1		0455	60	3113.	2044.4	3212.8
1		0500	61	15985.	2179.3	3214.7
1		0505	62	23355.	2244.0	3215.6
1		0510	63	26218.	2269.1	3215.9
1		0515	64	26866.	2274.8	3216.0
1		0520	65	26370.	2270.5	3216.0
1		0525	66	25268.	2260.8	3215.8
1		0530	67	23858.	2248.4	3215.7
1		0535	68	22322.	2234.9	3215.5
1		0540	69	20779.	2221.4	3215.3
1		0545	70	19301.	2208.4	3215.1
1		0550	71	17934.	2196.4	3214.9
1		0555	72	16690.	2185.5	3214.8
1		0600	73	15554.	2175.5	3214.6
1		0605	74	14505.	2166.3	3214.5
1		0610	75	13514.	2157.6	3214.4
1		0615	76	12557.	2149.2	3214.3
1		0620	77	11615.	2141.0	3214.2
1		0625	78	10680.	2132.8	3214.0
1		0630	79	9750.	2124.6	3213.9
1		0635	80	8834.	2116.6	3213.8
1		0640	81	8117.	2108.1	3213.7
1		0645	82	7397.	2099.0	3213.6
1		0650	83	6656.	2089.5	3213.4
1		0655	84	5933.	2080.3	3213.3
1		0700	85	5249.	2071.6	3213.2
1		0705	86	4616.	2063.5	3213.1
1		0710	87	4041.	2056.2	3213.0
1		0715	88	3524.	2049.6	3213.0
1		0720	89	3062.	2043.7	3212.9
1		0725	90	2652.	2038.5	3212.8
1		0730	91	2290.	2033.9	3212.8
1		0735	92	1969.	2029.8	3212.7
1		0740	93	1687.	2026.2	3212.7
1		0745	94	1439.	2023.0	3212.6
1		0750	95	1223.	2020.3	3212.6
1		0755	96	1034.	2017.9	3212.6
1		0800	97	870.	2015.8	3212.5
1		0805	98	729.	2014.0	3212.5
1		0810	99	608.	2012.4	3212.5
1		0815	100	506.	2011.1	3212.5
1		0820	101	416.	2010.0	3212.5
1		0825	102	344.	2009.1	3212.5
1		0830	103	284.	2008.3	3212.5
1		0835	104	233.	2007.7	3212.5
1		0840	105	192.	2007.1	3212.5
1		0845	106	182.	2006.6	3212.5
1		0850	107	182.	2006.0	3212.5
1		0855	108	182.	2005.2	3212.5
1		0900	109	182.	2004.4	3212.5
1		0905	110	182.	2003.5	3212.4
1		0910	111	182.	2002.5	3212.4
1		0915	112	182.	2001.5	3212.4
1		0920	113	182.	2000.4	3212.4
1		0925	114	182.	1999.3	3212.4
1		0930	115	182.	1998.2	3212.4
1		0935	116	182.	1997.0	3212.3
1		0940	117	182.	1995.8	3212.3
1		0945	118	182.	1994.6	3212.3
1		0950	119	182.	1993.4	3212.3
1		0955	120	182.	1992.2	3212.3
1		1000	121	182.	1990.9	3212.3
1		1005	122	181.	1989.7	3212.2
1		1010	123	181.	1988.5	3212.2
1		1015	124	181.	1987.2	3212.2
1		1020	125	181.	1986.0	3212.2
1		1025	126	181.	1984.7	3212.2
1		1030	127	181.	1983.5	3212.1
1		1035	128	181.	1982.3	3212.1
1		1040	129	181.	1981.0	3212.1
1		1045	130	181.	1979.8	3212.1
1		1050	131	181.	1978.5	3212.1
1		1055	132	181.	1977.3	3212.0
1		1100	133	181.	1976.0	3212.0
1		1105	134	181.	1974.8	3212.0
1		1110	135	181.	1973.5	3212.0
1		1115	136	181.	1972.3	3212.0
1		1120	137	181.	1971.0	3212.0
1		1125	138	181.	1969.8	3211.9
1		1130	139	181.	1968.5	3211.9
1		1135	140	181.	1967.3	3211.9
1		1140	141	181.	1966.1	3211.9
1		1145	142	181.	1964.8	3211.9
1		1150	143	181.	1963.6	3211.8
1		1155	144	181.	1962.4	3211.8
1		1200	145	181.	1961.1	3211.8
1		1205	146	181.	1959.8	3211.8
1		1210	147	181.	1958.6	3211.8
1		1215	148	180.	1957.4	3211.7
1		1220	149	180.	1956.1	3211.7
1		1225	150	180.	1954.9	3211.7
1		1230	151	180.	1953.7	3211.7
1		1235	152	180.	1952.4	3211.7
1		1240	153	180.	1951.2	3211.6
1		1245	154	180.	1949.9

1	0350	47	101.	388.4	3177.5	*	1	1210	147	181.	1958.6	3211.8	*	1	2030	247	177.	1835.6	3209.8	1	0035	8	0.	.2	3161.0	*	1	0855	108	182.	2005.2	3212.5	*	1	1715	208	178.	1883.2	3210.6
1	0355	48	106.	449.5	3179.5	*	1	1215	148	180.	1957.3	3211.7	*	1	2035	248	177.	1834.4	3209.8	1	0040	9	1.	.5	3161.1	*	1	0900	109	182.	2004.4	3212.5	*	1	1720	209	178.	1882.0	3210.5
1	0400	49	113.	518.2	3181.7	*	1	1220	149	180.	1956.1	3211.7	*	1	2040	249	177.	1833.2	3209.8	1	0045	10	1.	.7	3161.1	*	1	0905	110	182.	2003.5	3212.4	*	1	1725	210	178.	1880.7	3210.5
1	0405	50	119.	596.1	3183.9	*	1	1225	150	180.	1954.9	3211.7	*	1	2045	250	176.	1832.0	3209.7	1	0050	11	1.	.9	3161.1	*	1	0910	111	182.	2002.5	3212.4	*	1	1730	211	178.	1879.5	3210.5
1	0410	51	126.	684.5	3186.4	*	1	1230	151	180.	1953.6	3211.7	*	1	2050	251	176.	1830.8	3209.7	1	0055	12	1.	1.1	3161.1	*	1	0915	112	182.	2001.4	3212.4	*	1	1735	212	178.	1878.3	3210.5
1	0415	52	133.	783.8	3189.0	*	1	1235	152	180.	1952.4	3211.7	*	1	2055	252	176.	1829.5	3209.7	1	0100	13	1.	1.2	3161.1	*	1	0920	113	182.	2000.4	3212.4	*	1	1740	213	178.	1877.1	3210.5
1	0420	53	140.	895.0	3191.8	*	1	1240	153	180.	1951.1	3211.6	*	1	2100	253	176.	1828.3	3209.7	1	0105	14	2.	1.4	3161.2	*	1	0925	114	182.	1999.2	3212.4	*	1	1745	214	178.	1875.8	3210.4
1	0425	54	146.	1019.1	3194.6	*	1	1245	154	180.	1949.9	3211.6	*	1	2105	254	176.	1827.1	3209.7	1	0110	15	2.	1.5	3161.2	*	1	0930	115	182.	1998.1	3212.4	*	1	1750	215	178.	1874.6	3210.4
1	0430	55	152.	1156.9	3197.6	*	1	1250	155	180.	1948.7	3211.6	*	1	2110	255	176.	1825.9	3209.6	1	0115	16	2.	1.8	3161.2	*	1	0935	116	182.	1996.9	3212.3	*	1	1755	216	178.	1873.4	3210.4
1	0435	56	159.	1308.8	3200.7	*	1	1255	156	180.	1947.4	3211.6	*	1	2115	256	176.	1824.7	3209.6	1	0120	17	2.	2.2	3161.2	*	1	0940	117	182.	1995.7	3212.3	*	1	1800	217	178.	1872.2	3210.4
1	0440	57	165.	1474.6	3203.7	*	1	1300	157	180.	1946.2	3211.6	*	1	2120	257	176.	1823.5	3209.6	1	0125	18	3.	2.7	3161.3	*	1	0945	118	182.	1994.5	3212.3	*	1	1805	218	178.	1870.9	3210.4
1	0445	58	171.	1652.6	3206.9	*	1	1305	158	180.	1944.9	3211.5	*	1	2125	258	176.	1822.3	3209.6	1	0130	19	4.	3.4	3161.4	*	1	0950	119	182.	1993.3	3212.3	*	1	1810	219	178.	1869.7	3210.3
1	0450	59	177.	1840.2	3209.9	*	1	1310	159	180.	1943.7	3211.5	*	1	2130	259	176.	1821.0	3209.6	1	0135	20	5.	4.3	3161.5	*	1	0955	120	182.	1992.1	3212.3	*	1	1815	220	178.	1868.5	3210.3
1	0455	60	1894.	2028.8	3212.8	*	1	1315	160	180.	1942.5	3211.5	*	1	2135	260	176.	1819.8	3209.6	1	0140	21	6.	5.5	3161.6	*	1	1000	121	182.	1990.9	3212.3	*	1	1820	221	178.	1867.3	3210.3
1	0500	61	14925.	2170.0	3214.8	*	1	1320	161	180.	1941.2	3211.5	*	1	2140	261	176.	1818.6	3209.5	1	0145	22	8.	7.0	3161.8	*	1	1005	122	181.	1989.6	3212.2	*	1	1825	222	178.	1866.0	3210.3
1	0505	62	22763.	2238.8	3215.7	*	1	1325	162	180.	1940.0	3211.5	*	1	2145	262	176.	1817.4	3209.5	1	0150	23	10.	8.8	3162.0	*	1	1010	123	181.	1988.4	3212.2	*	1	1830	223	178.	1864.8	3210.3
1	0510	63	25834.	2265.7	3216.1	*	1	1330	163	180.	1938.7	3211.4	*	1	2150	263	176.	1816.2	3209.5	1	0155	24	11.	10.8	3162.1	*	1	1015	124	181.	1987.2	3212.2	*	1	1835	224	177.	1863.6	3210.2
1	0515	64	26578.	2272.3	3216.2	*	1	1335	164	180.	1937.5	3211.4	*	1	2155	264	176.	1815.0	3209.5	1	0200	25	12.	13.1	3162.2	*	1	1020	125	181.	1985.9	3212.2	*	1	1840	225	177.	1862.4	3210.2
1	0520	65	26132.	2268.4	3216.1	*	1	1340	165	180.	1936.3	3211.4	*	1	2200	265	176.	1813.8	3209.5	1	0205	26	13.	15.5	3162.3	*	1	1025	126	181.	1984.7	3212.2	*	1	1845	226	177.	1861.2	3210.2
1	0525	66	25058.	2258.9	3216.0	*	1	1345	166	180.	1935.0	3211.4	*	1	2205	266	176.	1812.6	3209.4	1	0210	27	14.	18.2	3162.5	*	1	1030	127	181.	1983.4	3212.1	*	1	1850	227	177.	1859.9	3210.2
1	0530	67	23669.	2246.8	3215.8	*	1	1350	167	180.	1933.8	3211.4	*	1	2210	267	176.	1811.3	3209.4	1	0215	28	16.	21.5	3162.6	*	1	1035	128	181.	1982.2	3212.1	*	1	1855	228	177.	1858.7	3210.2
1	0535	68	22151.	2233.4	3215.6	*	1	1355	168	180.	1932.5	3211.3	*	1	2215	268	176.	1810.1	3209.4	1	0220	29	18.	25.4	3162.8	*	1	1040	129	181.	1980.9	3212.1	*	1	1900	229	177.	1857.5	3210.2
1	0540	69	20622.	2220.0	3215.5	*	1	1400	169	180.	1931.3	3211.3	*	1	2220	269	176.	1808.9	3209.4	1	0225	30	20.	30.1	3163.1	*	1	1045	130	181.	1979.7	3212.1	*	1	1905	230	177.	1856.3	3210.1
1	0545	70	19157.	2207.2	3215.3	*	1	1405	170	180.	1930.1	3211.3	*	1	2225	270	176.	1807.7	3209.4	1	0230	31	23.	35.6	3163.4	*	1	1050	131	181.	1978.5	3212.1	*	1	1910	231	177.	1855.1	3210.1
1	0550	71	17802.	2195.3	3215.1	*	1	1410	171	180.	1928.8	3211.3	*	1	2230	271	176.	1806.5	3209.3	1	0235	32	26.	41.8	3163.7	*	1	1055	132	181.	1977.2	3212.0	*	1	1915	232	177.	1853.8	3210.1
1	0555	72	16568.	2184.4	3215.0	*	1	1415	172	180.	1927.6	3211.3	*	1	2235	272	176.	1805.3	3209.3	1	0240	33	29.	48.7	3164.0	*	1	1100	133	181.	1976.0	3212.0	*	1	1920	233	177.	1852.6	3210.1
1	0600	73	15441.	2174.6	3214.8	*	1	1420	173	179.	1926.4	3211.2	*	1	2240	273	176.	1804.1	3209.3	1	0245	34	33.	56.4	3164.4	*	1	1105	134	181.	1974.7	3212.0	*	1	1925	234	177.	1851.4	3210.1
1	0605	74	14400.	2165.4	3214.7	*	1	1425	174	179.	1925.1	3211.2	*	1	2245	274	176.	1802.9	3209.3	1	0250	35	37.	65.1	3164.9	*	1	1110	135	181.	1973.5	3212.0	*	1	1930	235	177.	1850.2	3210.0
1	0610	75	13417.	2156.8	3214.6	*	1	1430	175	179.	1923.9	3211.2	*	1	2250	275	176.	1801.7	3209.3	1	0255	36	42.	74.9	3165.4	*	1	1115	136	181.	1972.2	3212.0	*	1	1935	236	177.	1849.0	3210.0
1	0615	76	12467.	2148.5	3214.5	*	1	1435	176	179.	1922.7	3211.2	*	1	2255	276	175.	1800.5	3209.2	1	0300	37	47.	85.5	3165.9	*	1	1120	137	181.	1971.0	3212.0	*	1	1940	237	177.	1847.7	3210.0
1	0620	77	11533.	2140.3	3214.4	*	1	1440	177	179.	1921.4	3211.2	*	1	2300	277	175.	1799.2	3209.2	1	0305	38	52.	97.1	3166.5	*	1	1125	138	181.	1969.7	3211.9	*	1	1945	238	177.	1846.5	3210.0
1	0625	78	10604.	2132.1	3214.2	*	1	1445	178	179.	1920.2	3211.1	*	1	2305	278	175.	1798.0	3209.2	1	0310	39	58.	110.0	3167.1	*	1	1130	139	181.	1968.5	3211.9	*	1	1950	239	177.	1845.3	3210.0
1	0630	79	9682.	2124.0	3214.1	*	1	1450	179	179.	1918.9	3211.1	*	1	2310	279	175.	1796.8	3209.2	1	0315	40	60.	124.9	3167.7	*	1	1135	140	181.	1967.2	3211.9	*	1	1955	240	177.	1844.1	3209.9
1	0635	80	8773.	2116.0	3214.0	*	1	1455	180	179.	1917.7	3211.1	*	1	2315	280	175.	1795.6	3209.2	1	0320	41	64.	142.9	3168.4	*	1	1140	141	181.	1966.0	3211.9	*	1	2000	241	177.	1842.9	3209.9
1	0640	81	8075.	2107.6	3213.9	*	1	1500	181	179.	1916.5	3211.1	*	1	2320	281	175.	1794.4	3209.1	1	0325	42	68.	165.8	3169.4	*	1	1145	142	181.	1964.7	3211.9	*	1	2005	242	177.	1841.6	3209.9
1	0645	82	7354.	2098.4	3213.8	*	1	1505	182	179.	1915.2	3211.1	*	1	2325	282	175.	1793.2	3209.1	1	0330	43	73.	195.3	3170.6	*	1	1150	143	181.	1963.5	3211.8	*	1	2010	243	177.	1840.4	3209.9
1	0650	83	6615.	2089.0	3213.6	*	1	1510	183	179.	1914.0	3211.0	*	1	2330	283	175.	1792.0	3209.1	1	0335	44	80.	232.7	3172.1	*	1	1155	144	181.	1962.3	3211.8	*	1	2015	244	177.	1839.2	3209.9
1	0655	84	5895.	2079.8	3213.5	*	1	1515	184	179.	1912.8	3211.0	*	1	2335	284	175.	1790.8	3209.1	1	0340	45	86.	276.7	3173.6	*	1	1200	145	181.	1961.0	3211.8	*	1	2020	245	177.	1838.0	3209.8
1	0700	85	5214.	2071.1	3213.4	*	1	1520	185	179.	1911.5	3211.0	*	1	2340	285	175.	1789.6	3209.1	1	0345	46	93.	325.8	3175.4	*	1	1205	146	181.	1959.8	3211.8	*	1	2025	246	177.	1836.8	3209.8
1	0705	86	4585.	2063.1	3213.3	*	1	1525	186	179.	1910.3	3211.0	*	1	2345	286	175.	1788.4	3209.1	1	0350	47	100.	379.8	3177.2	*	1	1210	147	181.	1958.5	3211.8	*	1	2030	247	177.	1835.6	3209.8
1	0710	87	4014.	2055.8	3213.2	*	1	1530	187	179.	1909.1	3211.0	*	1	2350	287	175.	1787.2	3209.0	1	0355	48	105.	439.9	3179.2	*	1	1215	148	180.	1957.3	3211.7	*	1	2035	248	177.	1834.3	3209.8
1	0715	88	3500.	2049.3	3213.1	*	1	1535	188	179.	1907.8	3210.9	*	1	2355	288	175.	1786.0	3209.0	1	0400	49	112.	507.5	3181.3	*	1	1220	149	180.	1956.0	3211.7	*	1	2040	249	177.	1833.1	3209.8
1	0720	89	3042.	2043.5	3213.0	*	1	1540	189	179.	1906.6	3210.9	*	2	0000	289	175.	1784.8	3209.0	1	0405	50	118.	584.3	3183.6	*	1	1225	150	180.	1954.8	3211.7	*	1	2045	250	176.	1831.9	3209.7
1	0725	90	2634.	2038.3	3212.9	*	1	1545	190	179.	1905.4	3210.9	*	2	0005	290	175.	1783.6	3209.0	1	0410	51	125.	671.3	3186.0	*	1	1230	151	180.	1953.6	3211.7	*	1	2050	251	176.	1830.7	3209.7
1	0730	91	2274.	2033.7	3212.9	*	1	1550	191	179.	1904.2	3210.9	*	2	0010	291	175.	1782.4	3209.0	1	0415	52	132.	769.2	3188.6	*	1	1235	152	180.	1952.3	3211.7	*	1	2055	252	176.	1829.5	3209.7
1	0735	92	1956.	2029.6	3212.8	*	1	1555	192	179.	1902.9	3210.9	*	2	0015	292	175.	1781.2	3208.9	1	0420	53	139.	878.8	3191.4	*	1	1240	153	180.	1951.1	3211.6	*	1	2100	253	176.	1828.3	3209.7
1	0740	93	1676.	2026.0	3212.8	*	1	1600	193	179.	1901.7	3210.9	*	2	0020	293	175.	1779.9	3208.9	1	0425	54	145.	1001.1	3194.2	*	1	1245	154	180.	1949.8	3211.6	*	1	2105	254	176.	1827.1	3209.7
1	0745	94	1430.	2022.9	3212.7	*	1	1605	194	179.	1900.5	3210.8	*	2	0025	294	175.	1778.7	3208.9	1	0430	55	152.	1136.9	3197.2	*	1	1250	155	180.	1948.6	3211.6	*	1	2110	255	176.	1825.8	3209.6
1	0750	95	1214.	2020.2	3212.7	*	1	1610	195	179.	1899.2	3210.8	*	2	0030	295	175.	1777.5	3208.9	1	0435	56	158.	1286.8	3200.2	*	1	1255	156	180.	1947.3	3211.6	*	1	2115	256	176.	1824.6	3209.6
1	0755	96	1027.	2017.8	3212.6	*	1	1615	196	179.	1898.0	3210.8	*	2	0035	296	175.	1776.3	3208.9	1	0440	57	164.	1450.3	3203.3	*	1	1300	157	180.	1946.1	3211.6	*	1	2120	257	176.	1823.4	3209.6
1	0800	97	864.	2015.7	3212.6	*	1	1620	197	179.	1896.8	3210.8	*	2	0040	297	175.	1775.1	3208.8	1	0445	58	170.	1625.9	3206.4	*	1	1305	158	180.	1944.9	3211.5	*	1	2125	258	176.	1822.2	3209.6
1	0805	98	724.	2013.9	3212.6	*	1	1625	198	179.	1895.5	3210.8	*	2	0045	298	175.	1773.9	3208.8	1	0450	59	176.	1811.1	3209.4	*	1	1310	159	180.	1943.6	3211.5	*	1	2130	259	176.	1821.0	3209.6
1	0810	99	604.	2012.4	3212.6	*	1	1630	199	178.	1894.3	3210.7	*	2	0050	299	175.	1772.7	3208.8	1	0455	60	182.	2003.0	3212.4	*	1	1315	160	180.	1942.4	3211.5	*	1	2135	260	176.	1819.8	3209.6
1	0815	100	502.	2011.1	3212.6	*	1	1635	200	178.	1893.1	3210.7	*	2	0055	300	175.	1771.5	3208.8	1	0500	61	13085.	2153.9	3214.5	*	1	1320	161	180.	1941.1	3211.5	*	1	2140	261	176.	1818.6	3209.5
						*							*							1	0505	62	21752.	2229.9	3215.6	*	1	1325	162	180.	1939.9	3211.5	*	1	2145	262	176.	1817.3	3209.5
																				1	0510	63	25191.	2260.1	3216.0	*	1	1330	163	180.	1938.7	3211.4	*	1	2150	263	176.	1816.1	3209.5
																				1	0515	64	26106.	2268.1	3216.1	*	1	1335	164	180.	1937.4	3211.4	*	1	2155	264	176.	1814.9	3209.5
																				1	0520	65	25745.	2265.0	3216.1	*	1	1340	165	180.	1936.2	3211.4	*	1	2200	265	176.	1813.7	3209.5
																				1	0525	66	24722.	2256.0	3216.0	*	1	1345	166	180.	1935.0	3211.4	*	1	2205	266	176.	1812.5	3209.4
																				1	0530	67	23367.	2244.1	3215.8	*	1	1350	167	180.	1933.7	3211.4	*	1	2210	267	176.	1811.3	3209.4
																				1	0535	68	21876.	2231.0	3215.6	*	1	1355	168	180.	1932.5	3211.3	*	1	2215	268	176.	1810.1	3209.4
																				1	0540	69	20370.	2217.8	3215.4	*	1	1400	169	180.	1931.2	3211.3	*	1	2220	269	176.	1808.9	3209.4
																				1	0545	70	18927.	2205.1	3215.3	*	1	1405	170	180.	1930.0	3211.3	*	1	2225	270	176.	1807.7	3209.4
																				1	0550	71	17590.	2193.4	3215.1	*	1	1410	171	180.	1928.8	3211.3	*	1	2230	271	176.	1806.4	3209.3
																				1	0555	72	16372.	2182.7	3214.9	*	1	1415	172	180.	1927.5	3211.3	*	1	2235	272	176.	1805.2	3209.3
																				1	0600	73	15261.	2173.0	3214.8	*	1	1420	173	179.	1926.3	3211.2	*	1	2240	273	176.	1804.0	3209.3
																				1	0605	74	14233.	2164.0	3214.7	*	1	1425	174	179.	1925.1	3211.2	*	1	2245	274	176.	1802.8	3209.3
																				1	0610	75	13262.	2155.4	3214.6	*	1	1430	175	179.	1923.8	3211.2	*	1	2250	275	176.	1801.6	3209.3
																				1	0615	76	12324.	2147.2	3214.4	*	1	1435	176	179.	1922.6	3211.2	*	1	2255	276	175.	1800.4	3209.2
																				1	0620	77	11401.	2139.1	3214.3	*	1	1440	177	179.	1921.4	3211.2	*	1	2300	277	175.	1799.2	3209.2
																				1	0625	78	10484.	2131.1	3214.2	*	1	1445	178	179.	1920.1	3211.1	*	1	2305	278	175.	1798.0	3209.2
																				1	0630	79	9573.	2123.1	3214.1	*	1	1450	179	179.	1918.9	3211.1	*	1	2310	279	175.	1796.8	3209.2
																				1	0635	80	8674.	2115.2	3214.0	*	1	1455	180	179.	1917.7	3211.1	*	1	2315	280	175.	1795.6	3209.2
																				1	0640	81	8008.	2106.8	3213.9	*	1	1500	181	179.	1916.4	3211.1	*	1	2320	281	175.	1794.4	3209.1
																				1	0645	82	7285.	2097.6	3213.8	*	1	1505	182	179.	1915.2	3211.1	*	1	2325	282	175.	1793.2	3209.1
																				1	0650	83	6549.	2088.2	3213.6	*	1	1510	183	179.	1913.9	3211.0	*	1	2330	283	175.	1791.9	3209.1
																				1	0655	84	5834.	2079.0	3213.5	*	1	1515	184	179.	1912.7	3211.0	*	1	2335	284	175.	1790.7	3209.1
																				1	0700	85	5159.	2070.4	3213.4	*	1	1520	185	179.	1911.5	3211.0	*	1	2340	285	175.	1789.5	3209.1
																				1	0705	86	4536.	2062.5	3213.3	*	1	1525	186	179.	1910.2	3211.0	*	1	2345	286	175.	1788.3	3209.1
																				1	0710	87	3970.	2055.3	3213.2	*	1	1530	187	179.	1909.0	3211.0	*	1	2350	287	175.	1787.1	3209.0
																				1	0715	88	3462.	2048.8	3213.1	*	1	1535	188	179.	1907.8	3210.9	*	1	2355	288	175.	1785.9	3209.0
																				1	0720	89	3008.	2043.0	3213.0	*	1	1540	189	179.	1906.6	3210.9	*	2	0000	289	175.	1784.7	3209.0
																				1	0725	90	2606.	2037.9	3212.9	*	1	1545	190	179.	1905.3	3210.9	*	2	0005	290	175.	1783.5	3209.0
																				1	0730	91	2249.	2033.4	3212.9	*	1	1550	191	179.	1904.1	3210.9	*	2	0010	291	175.	1782.3	3209.0
																				1	0735	92	1935.	2029.3	3212.8	*	1	1555	192	179.	1902.9	3210.9	*	2	0015	292	175.	1781.1	3208.9
																				1	0740	93	1657.	2025.8	3212.8	*	1	1600	193	179.	1901.6	3210.9	*	2	0020	293	175.	1779.9	3208.9
																				1	0745	94	1414.	2022.7	3212.7	*	1	1605	194	179.	1900.4	3210.8	*	2	0025	294	175.	1778.7	3208.9
																				1	0750	95	1201.	2020.0	3212.7	*	1	1610	195	179.	1899.2	3210.8	*	2	0030	295	175.	1777.5	3208.9
																				1	0755	96	1015.	2017.6	3212.6	*	1	1615	196	179.	1897.9	3210.8	*	2	0035	296	175.	1776.3	3208.9
																				1	0800	97	855.	2015.6	3212.6	*	1	1620	197	179.	1896.7	3210.8	*	2	0040	297	175.	1775.1	3208.8
																				1	0805	98	716.	2013.8	3212.6	*	1	1625	198	179.	1895.5	3210.8	*	2	0045	298	175.	1773.9	3208.8
																				1	0810	99	597.	2012.3	3212.6	*	1	1630	199	178.	1894.2	3210.7	*	2	0050	299	175.	1772.7	3208.8
																				1	0815	100	497.	2011.0	3212.6	*	1	1635	200	178.	1893.0	3210.7	*	2	0055	300	175.	1771.5	3208.8
																											*												

PEAK FLOW TIME MAXIMUM AVERAGE FLOW

	6-HR	24-HR	72-HR	24.92-HR
+ (CFS) (HR)				
(CFS)				
+ 26578. 5.25	5956.	1603.	1544.	1544.
(INCHES)	1.012	1.089	1.089	1.089
(AC-FT)	2954.	3180.	3180.	3180.

PEAK STORAGE TIME MAXIMUM AVERAGE STORAGE

	6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT) (HR)				
2272. 5.25	2065.	1665.	1604.	1604.

PEAK STAGE TIME MAXIMUM AVERAGE STAGE

	6-HR	24-HR	72-HR	24.92-HR
+ (FEET) (HR)				
3216.18 5.25	3213.30	3204.84	3203.23	3203.23

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .89

| DA | MON | HRMN | ORD | OUTFLOW | STORAGE | STAGE | | DA | MON | HRMN | ORD | OUTFLOW | STORAGE | STAGE | | DA | MON | HRMN | ORD | OUTFLOW | STORAGE | STAG

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)				
26106.	5.25	5823.	1569.	1512.	1512.
		(INCHES) .989	1.066	1.066	1.066
		(AC-FT) 2887.	3113.	3113.	3113.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
(AC-FT)	(HR)				
2268.	5.25	2064.	1664.	1603.	1603.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
(FEET)	(HR)				
3216.13	5.25	3213.29	3204.81	3203.20	3203.20

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .88

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	3161.0
1		0005	2	0.	.0	3161.0
1		0010	3	0.	.0	3161.0
1		0015	4	0.	.0	3161.0
1		0020	5	0.	.0	3161.0
1		0025	6	0.	.0	3161.0
1		0030	7	0.	.1	3161.0
1		0035	8	0.	.2	3161.0
1		0040	9	0.	.4	3161.0
1		0045	10	1.	.7	3161.1
1		0050	11	1.	.9	3161.1
1		0055	12	1.	1.0	3161.1
1		0100	13	1.	1.1	3161.1
1		0105	14	1.	1.3	3161.1
1		0110	15	2.	1.4	3161.2
1		0115	16	2.	1.7	3161.2
1		0120	17	2.	2.0	3161.2
1		0125	18	3.	2.5	3161.3
1		0130	19	3.	3.1	3161.3
1		0135	20	4.	4.0	3161.4
1		0140	21	6.	5.1	3161.6
1		0145	22	7.	6.6	3161.7
1		0150	23	9.	8.2	3161.9
1		0155	24	11.	10.1	3162.1
1		0200	25	12.	12.2	3162.2
1		0205	26	13.	14.5	3162.3
1		0210	27	14.	17.1	3162.4
1		0215	28	15.	20.2	3162.6
1		0220	29	17.	23.9	3162.8
1		0225	30	19.	28.4	3163.0
1		0230	31	22.	33.7	3163.3
1		0235	32	25.	39.6	3163.6
1		0240	33	28.	46.3	3163.9
1		0245	34	31.	53.7	3164.3
1		0250	35	35.	62.1	3164.7
1		0255	36	40.	71.6	3165.2
1		0300	37	45.	81.9	3165.7
1		0305	38	50.	93.1	3166.3
1		0310	39	56.	105.6	3166.9
1		0315	40	59.	120.0	3167.5
1		0320	41	63.	137.5	3168.2
1		0325	42	67.	159.7	3169.1
1		0330	43	72.	188.6	3170.3
1		0335	44	79.	225.1	3171.8
1		0340	45	85.	268.3	3173.3
1		0345	46	92.	316.4	3175.0
1		0350	47	99.	369.3	3176.9
1		0355	48	104.	428.1	3178.8
1		0400	49	111.	494.4	3180.9
1		0405	50	117.	569.7	3183.2
1		0410	51	124.	655.1	3185.6
1		0415	52	131.	751.1	3188.2
1		0420	53	137.	858.8	3190.9
1		0425	54	144.	978.9	3193.7
1		0430	55	150.	1112.3	3196.7
1		0435	56	157.	1259.6	3199.7
1		0440	57	163.	1420.3	3202.8
1		0445	58	169.	1592.9	3205.8
1		0450	59	175.	1775.0	3208.8
1		0455	60	181.	1963.7	3211.8
1		0500	61	9608.	2123.4	3214.1
1		0505	62	19976.	2214.3	3215.4
1		0510	63	24165.	2251.1	3215.9
1		0515	64	25419.	2262.1	3216.0
1		0520	65	25220.	2260.4	3216.0
1		0525	66	24282.	2252.1	3215.9
1		0530	67	22981.	2240.7	3215.7
1		0535	68	21529.	2228.0	3215.6
1		0540	69	20054.	2215.0	3215.4
1		0545	70	18638.	2202.6	3215.2
1		0550	71	17325.	2191.1	3215.1
1		0555	72	16128.	2180.6	3214.9
1		0600	73	15035.	2171.0	3214.8
1		0605	74	14024.	2162.1	3214.7
1		0610	75	13069.	2153.7	3214.5
1		0615	76	12146.	2145.6	3214.4
1		0620	77	11237.	2137.7	3214.3
1		0625	78	10334.	2129.7	3214.2
1		0630	79	9436.	2121.9	3214.1
1		0635	80	8576.	2114.0	3214.0
1		0640	81	7914.	2105.6	3213.9
1		0645	82	7193.	2096.4	3213.7
1		0650	83	6463.	2087.1	3213.6
1		0655	84	5755.	2078.0	3213.5
1		0700	85	5089.	2069.5	3213.4
1		0705	86	4474.	2061.7	3213.3
1		0710	87	3916.	2054.6	3213.2
1		0715	88	3414.	2048.2	3213.1
1		0720	89	2967.	2042.5	3213.0
1		0725	90	2569.	2037.4	3212.9
1		0730	91	2218.	2033.0	3212.9
1		0735	92	1908.	2029.0	3212.8
1		0740	93	1634.	2025.5	3212.8
1		0745	94	1394.	2022.5	3212.7
1		0750	95	1184.	2019.8	3212.7
1		0755	96	1001.	2017.4	3212.6
1		0800	97	843.	2015.4	3212.6
1		0805	98	706.	2013.7	3212.6
1		0810	99	589.	2012.2	3212.6
1		0815	100	490.	2010.9	3212.6
1		0820	101	406.	2009.9	3212.5
1		0825	102	335.	2009.0	3212.5
1		0830	103	277.	2008.2	3212.5
1		0835	104	228.	2007.6	3212.5
1		0840	105	187.	2007.1	3212.5
1		0845	106	182.	2006.5	3212.5
1		0850	107	182.	2005.9	3212.5
1		0855	108	182.	2005.2	3212.5
1		0900	109	182.	2004.3	3212.5
1		0905	110	182.	2003.4	3212.4
1		0910	111	182.	2002.4	3212.4
1		0915	112	182.	2001.4	3212.4
1		0920	113	182.	2000.3	3212.4
1		0925	114	182.	1999.2	3212.4
1		0930	115	182.	1998.0	3212.4
1		0935	116	182.	1996.9	3212.3
1		0940	117	182.	1995.7	3212.3
1		0945	118	182.	1994.5	3212.3
1		0950	119	182.	1993.3	3212.3
1		0955	120	182.	1992.0	3212.3
1		1000	121	182.	1990.8	3212.3
1		1005	122	181.	1989.6	3212.2
1		1010	123	181.	1988.3	3212.2
1		1015	124	181.	1987.1	3212.2
1		1020	125	181.	1985.9	3212.2
1		1025	126	181.	1984.6	3212.2
1		1030	127	181.	1983.4	3212.1
1		1035	128	181.	1982.1	3212.1
1		1040	129	181.	1980.9	3212.1
1		1045	130	181.	1979.6	3212.1
1		1050	131	181.	1978.4	3212.1
1		1055	132	181.	1977.1	3212.0
1		1100	133	181.	1975.9	3212.0
1		1105	134	181.	1974.6	3212.0
1		1110	135	181.	1973.4	3212.0
1		1115	136	181.	1972.1	3212.0
1		1120	137	181.	1970.9	3212.0
1		1125	138	181.	1969.7	3211.9
1		1130	139	181.	1968.4	3211.9
1		1135	140	181.	1967.2	3211.9
1		1140	141	181.	1965.9	3211.9
1		1145	142	181.	1964.7	3211.9
1		1150	143	181.	1963.4	3211.8
1		1155	144	181.	1962.2	3211.8
1		1200	145	181.	1960.9	3211.8
1		1205	146	181.	1959.7	3211.8
1		1210	147	181.	1958.5	3211.8
1		1215	148	180.	1957.2	3211.7
1		1220	149	180.	1956.0	3211.7
1		1225	150	180.	1954.7	3211.7
1		1230	151	180.	1953.5	3211.7
1		1235	152	180.	1952.2	3211.7
1		1240	153	180.	1951.0	3211.6
1		1245	154	180.	1949.8	3211.6
1		1250	155	180.	1948.5	3211.6
1		1255	156	180.	1947.3	3211.6
1		1300	157	180.	1946.0	3211.6
1		1305	158	180.	1944.8	3211.5
1		1310	159	180.	1943.6	3211.5
1		1315	160	180.	1942.3	3211.5
1		1320	161	180.	1941.1	3211.5
1		1325	162	180.	1939.8	3211.5
1		1330	163	180.	1938.6	3211.4
1		1335	164	180.	1937.4	3211.4
1		1340	165	180.	1936.1	3211.4
1		1345	166	180.	1934.9	3211.4
1		1350	167	180.	1933.6	3211.4
1		1355	168	180.	1932.4	3211.3
1		1400	169	180.	1931.2	3211.3
1		1405	170	180.	1929.9	3211.3
1		1410	171	180.	1928.7	3211.3
1		1415	172	180.	1927.5	3211.3
1		1420	173	179.	1926.2	3211.2
1		1425	174	179.	1925.0	3211.2
1		1430	175	179.	1923.7	3211.2
1		1435	176	179.	1922.5	3211.2
1		1440	177	179.	1921.3	3211.2
1		1445	178	179.	1920.0	3211.1
1		1450	179	179.	1918.8	3211.1
1		1455	180	179.	1917.6	3211.1
1		1500	181	179.	1916.3	3211.1
1		1505	182	179.	1915.1	3211.1
1		1510	183	179.	1913.9	3211.0
1		1515	184	179.	1912.6	3211.0
1		1520	185	179.	1911.4	3211.0
1		1525	186	179.	1910.2	3211.0
1		1530	187	179.	1908.9	3211.0
1		1535	188	179.	1907.7	3210.9
1		1540	189	179.	1906.5	3210.9
1		1545	190	179.	1905.2	3210.9
1		1550	191	179.	1904.0	3210.9
1		1555	192	179.	1902.8	3210.9
1		1600	193	179.	1901.6	3210.9
1		1605	194	179.	1900.3	3210.8
1		1610	195	179.	1899.1	3210.8
1		1615	196	179.	1897.9	3210.8
1		1620	197	179.	1896.6	3210.8
1		1625	198	179.	1895.4	3210.8
1		1630	199	178.	1894.2	3210.7
1		1635	200	178.	1892.9	3210.7
1		1640	201	178.	1891.7	3210.7
1		1645	202	178.	1890.5	3210.7
1		1650	203	178.	1889.3	3210.7
1		1655	204	178.	1888.0	3210.6
1		1700	205	178.	1886.8	3210.6
1		1705	206	178.	1885.6	3210.6
1		1710	207	178.	1884.3	3210.6
1		1715	208	178.	1883.1	3210.6
1		1720	209	178.	1881.9	3210.5
1		1725	210	178.	1880.7	3210.5
1		1730	211	178.	1879.4	3210.5
1		1735	212	178.	1878.2	3210.5
1		1740	213	178.	1877.0	3210.5
1		1745	214	178.	1875.8	3210.4
1		1750	215	178.	1874.5	3210.4
1		1755	216	178.	1873.3	3210.4
1		1800	217	178.	1872.1	3210.4
1		1805	218	178.	1870.9	3210.4
1		1810	219	178.	1869.6	3210.3
1		1815	220	178.	1868.4	3210.3
1		1820	221	178.	1867.2	3210.3
1		1825	222	178.	1866.0	3210.3
1		1830	223	178.	1864.8	3210.3
1		1835	224	177.	1863.5	3210.2
1		1840	225	177.	1862.3	3210.2
1		1845	226	177.	1861.1	3210.2
1		1850	227	177.	1859.9	3210.2
1		1855	228	177.	1858.6	3210.2
1		1900	229	177.	1857.4	3210.1
1		1905	230	177.	1856.2	3210.1
1		1910	231	177.	1855.0	3210.1
1		1915	232	177.	1853.8	3210.1
1		1920	233	177.	1852.5	3210.1
1		1925	234	177.	1851.3	3210.1
1		1930	235	177.	1850.1	3210.0
1		1935	236	177.	1848.9	3210.0
1		1940	237	177.	1847.7	3210.0
1		1945	238	177.	1846.4	3210.0
1		1950	239	177.	1845.2	3210.0
1		1955	240	177.	1844.0	3209.9
1		2000	241	177.	1842.8	3209.9
1		2005	242	177.	1841.6	3209.9
1		2010	243	177.	1840.4	3209.9
1		2015	244	177.	1839.1	3209.9
1		2020	245	177.	1837.9	3209.8
1		2025	246	177.	1836.7	3209.8
1		2030	247	177.	1835.5	3209.8
1		2035	248	177.	1834.3	3209.8
1		2040	249	177.	1833.1	3209.8
1		2045	250	176.	1831.8	3209.7
1		2050	251	176.	1830.6	3209.7
1		2055	252	176.	1829.4	3209.7
1		2100	253	176.	1828.2	3209.7
1		2105	254	176.	1827.0	3209.7
1		2110	255	176.	1825.8	3209.6
1		2115	256	176.	1824.5	3209.6
1		2120	257	176.	1823.3	3209.6
1		2125	258	176.	1822.1	3209.6
1		2130	259	176.	1820.9	3209.6
1		2135	260	176.	1819.7	3209.6
1		2140	261	176.	1818.5	3209.5
1		2145	262	176.	1817.3	3209.5
1		2150	263	176.	1816.1	3209.5
1		2155	264	176.	1814.8	3209.5
1		2200	265	176.	1813.6	3209.5
1		2205	266	176.	1812.4	3209.4
1		2210	267	176.	1811.2	3209.4
1		2215	268	176.	1810.0	3209.4
1		2220	269	176.	1808.8	3209.4
1		2225	270	176.	1807.6	3209.4
1		2230	271	176.	1806.4	3209.3
1		2235	272	176.	1805.2	3209.3
1		2240	273	176.	1804.0	3209.3
1		2245	274	176.	1802.7	3209.3
1		2250	275	176.	1801.5	3209.3
1		2255	276	175.	1800.3	3209.2
1		2300	277	175.	1799.1	3209.2
1		2305	278	175.	1797.9	3209.2
1		2310	279	175.	1796.7	3209.2
1		2315	280	175.	1795.5	3209.2
1		2320	281	175.	1794.3	3209.1
1		2325	282	175.	1793.1	3209.1
1		2330	283	175.	1791.9	3209.1
1		2335	284	175.	1790.7	3209.1
1		2340	285	175.	1789.5	3209.1
1		2345	286	175.	1788.3	3209.1
1		2350	287	175.	1787.0	3209.0
1		2355	288	175.	1785.8	3209.0
1		0000	289	175.	1784.6	3209.0
1		0005	290	175.	1783.4	3209.0
1		0010	291	175.	1782.2	3209.0
1		0015	292	175.	1781.0	3208.9
1		0020	293	175.	1779.8	3208.9
1		0025	294	175.	1778.6	3208.9
1		0030	295	175.	1777.4	3208.9
1		0040	297	175.	1775.0	3208.8
1		0045	298	175.	1773.8	3208.8
1		0050	299	175.	1772.6	3208.8
1		0055	300	175.	1771.4	3208.8

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)				
25419.	5.25	5656.	1528.	1471.	1471.
		(INCHES) .961	1.038	1.038	1.038
		(AC-FT) 2805.	3030.	3030.	3030.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
(AC-FT)	(HR)				
2262.	5.25	2062.	1662.	1601.	1601.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
(FEET)	(HR)				
3216.04	5.25	3213.26	3204.77	3203.16	3203.16

CUMULATIVE AREA = 54.73 SQ MI

1

PEAK FLOW AND STAGE (END-OF-PERIOD) SUMMARY FOR MULTIPLE PLAN-RATIO ECONOMIC COMPUTATIONS
FLOWS IN CUBIC FEET PER SECOND, AREA IN SQUARE MILES
TIME TO PEAK IN HOURS

OPERATION	STATION	AREA	PLAN		RATIOS APPLIED TO PRECIPITATION RATIO 1 .99	RATIO 2 .98	RATIO 3 .95	RATIO 4 .93	RATIO 5 .92	RATIO 6 .91	RATIO 7 .90	RATIO 8 .89	RATIO 9 .88
HYDROGRAPH AT													
RR1		4.22	1	FLOW	4665.	4566.	4400.	4235.	4169.	4123.	4090.	4037.	3971.
				TIME	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92
HYDROGRAPH AT													
RR2		3.55	1	FLOW	3615.	3539.	3411.	3284.	3234.	3198.	3173.	3132.	3082.
				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
ROUTED TO													
RRR2		3.55	1	FLOW	3598.	3524.	3395.	3267.	3216.	3182.	3156.	3114.	3064.
				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
2 COMBINED AT													
CRR2		7.77	1	FLOW	8162.	7984.	7693.	7403.	7287.	7204.	7148.	7055.	6939.
				TIME	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92
ROUTED TO													
RCRR2		7.77	1	FLOW	7592.	7431.	7162.	6894.	6786.	6711.	6658.	6572.	6466.
				TIME	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25
HYDROGRAPH AT													
RR5		7.13	1	FLOW	6654.	6518.	6291.	6064.	5973.	5910.	5864.	5792.	5702.

				TIME	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08
ROUTED TO													
+	R-RR5	7.13	1	FLOW	6404.	6272.	6053.	5833.	5746.	5684.	5640.	5570.	5483.
				TIME	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25
HYDROGRAPH AT													
+	RR3	14.98	1	FLOW	11214.	10974.	10577.	10180.	10022.	9911.	9832.	9705.	9547.
				TIME	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25
3 COMBINED AT													
+	CRR3	29.89	1	FLOW	25210.	24678.	23791.	22907.	22554.	22307.	22130.	21848.	21496.
				TIME	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25
ROUTED TO													
+	RCRR3	29.89	1	FLOW	23626.	23122.	22285.	21452.	21122.	20891.	20726.	20463.	20133.
				TIME	4.67	4.67	4.67	4.75	4.75	4.75	4.75	4.75	4.75
HYDROGRAPH AT													
+	RR10	8.77	1	FLOW	5056.	4941.	4750.	4560.	4484.	4431.	4393.	4332.	4257.
				TIME	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33
2 COMBINED AT													
+	CRR10	38.66	1	FLOW	28067.	27466.	26466.	25469.	25071.	24792.	24593.	24275.	23879.
				TIME	4.67	4.67	4.67	4.67	4.67	4.67	4.67	4.67	4.67
ROUTED TO													
+	RCRR10	38.66	1	FLOW	26826.	26249.	25290.	24343.	23965.	23701.	23512.	23210.	22833.
				TIME	5.00	5.00	5.08	5.08	5.08	5.08	5.08	5.08	5.08
HYDROGRAPH AT													
+	RR12A	5.82	1	FLOW	4332.	4240.	4086.	3932.	3871.	3828.	3797.	3749.	3687.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
ROUTED TO													
+	R-RR12A	5.82	1	FLOW	4166.	4077.	3928.	3780.	3721.	3680.	3650.	3603.	3544.
				TIME	4.42	4.42	4.42	4.42	4.42	4.42	4.42	4.42	4.42
HYDROGRAPH AT													
+	104A	3.39	1	FLOW	1616.	1573.	1502.	1432.	1404.	1385.	1371.	1349.	1322.
				TIME	4.25	4.25	4.25	4.33	4.33	4.33	4.33	4.33	4.33
3 COMBINED AT													
+	C104A	47.87	1	FLOW	30579.	29923.	28831.	27742.	27308.	27004.	26787.	26440.	26007.
				TIME	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
HYDROGRAPH AT													
+	RD1	.43	1	FLOW	591.	578.	557.	535.	526.	520.	516.	509.	501.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
ROUTED TO													
+	R-RD1	.43	1	FLOW	587.	576.	553.	531.	525.	517.	512.	510.	499.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT													
+	RD2	.47	1	FLOW	800.	785.	760.	735.	724.	717.	712.	704.	694.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT													
+	CRD2	.90	1	FLOW	1340.	1311.	1264.	1218.	1203.	1188.	1178.	1164.	1148.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
ROUTED TO													
+	RCRD2	.90	1	FLOW	1313.	1283.	1241.	1201.	1181.	1167.	1162.	1145.	1131.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT													
+	RD3	.33	1	FLOW	532.	522.	504.	487.	480.	475.	472.	466.	459.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT													
+	CRD3	1.23	1	FLOW	1788.	1748.	1691.	1635.	1609.	1591.	1584.	1561.	1541.
				TIME	3.58	3.58	3.67	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT													
+	RR14A	4.60	1	FLOW	3517.	3442.	3317.	3192.	3143.	3108.	3083.	3043.	2994.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
ROUTED TO													
+	R-RR14A	4.60	1	FLOW	3496.	3421.	3297.	3173.	3123.	3088.	3063.	3023.	2974.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
HYDROGRAPH AT													
+	RD4	.40	1	FLOW	546.	534.	513.	492.	484.	478.	474.	467.	459.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT													
+	CRD4	5.00	1	FLOW	3607.	3530.	3402.	3274.	3223.	3186.	3161.	3120.	3070.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
ROUTED TO													
+	RCRD4	5.00	1	FLOW	3590.	3514.	3385.	3257.	3206.	3169.	3144.	3103.	3052.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
HYDROGRAPH AT													
+	RD5	.37	1	FLOW	529.	517.	497.	478.	470.	465.	461.	455.	447.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT													
+	CRD5	5.37	1	FLOW	3685.	3606.	3475.	3344.	3291.	3253.	3228.	3186.	3134.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
ROUTED TO													
+	RCRD5	5.37	1	FLOW	3663.	3585.	3453.	3321.	3271.	3232.	3206.	3166.	3114.
				TIME	4.17	4.17	4.17	4.17	4.17	4.25	4.17	4.25	4.17
HYDROGRAPH AT													
+	RD6	.25	1	FLOW	405.	397.	384.	370.	365.	361.	359.	354.	349.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT													
+	CRD6	5.62	1	FLOW	3730.	3651.	3517.	3383.	3332.	3292.	3266.	3224.	3173.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
3 COMBINED AT													
+	INRR	54.73	1	FLOW	33084.	32380.	31210.	30042.	29574.	29249.	29016.	28643.	28178.
				TIME	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
ROUTED TO													
+	RRDB	54.73	1	FLOW	31608.	30745.	29284.	27847.	27270.	26866.	26578.	26106.	25419.
				TIME	5.17	5.17	5.17	5.25	5.25	5.25	5.25	5.25	5.25
				** PEAK STAGES IN FEET **									
			1	STAGE	3216.80	3216.69	3216.51	3216.34	3216.27	3216.22	3216.18	3216.13	3216.04
				TIME	5.17	5.17	5.17	5.25	5.25	5.25	5.25	5.25	5.25
DIVERSION TO													
+	*D-RROUT	54.73	1	FLOW	31426.	30563.	29102.	27665.	27088.	26684.	26396.	25924.	25237.
				TIME	5.17	5.17	5.17	5.25	5.25	5.25	5.25	5.25	5.25
HYDROGRAPH AT													
+	*DOUTRR	54.73	1	FLOW	182.	182.	182.	182.	182.	182.	182.	182.	182.
				TIME	5.33	4.83	4.83	5.42	4.92	4.92	5.42	5.00	5.00
ROUTED TO													
+	ROUTRR	54.73	1	FLOW	182.	182.	182.	182.	182.	182.	182.	182.	182.
				TIME	4.92	4.92	5.00	5.08	5.08	5.08	5.08	5.08	5.08
HYDROGRAPH AT													
+	R3A	.19	1	FLOW	241.	236.	226.	217.	213.	211.	209.	206.	202.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT													
+	CR3A	54.92	1	FLOW	326.	319.	307.	294.	290.	286.	284.	280.	275.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
ROUTED TO													
+	RCR3A	54.92	1	FLOW	325.	318.	306.	294.	289.	285.	283.	279.	274.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67

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*** NORMAL END OF HEC-1 ***

B.3.8 50-year_FLAM3A

B.3.9 50-year_FLAM4A

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 *                                      *
 *   FLOOD HYDROGRAPH PACKAGE  (HEC-1)  *
 *              JUN   1998              *
 *            VERSION 4.1               *
 *                                      *
 *  RUN DATE   20MAY20  TIME  09:44:11  *
 *                                      *
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*                                    *
*   U.S. ARMY CORPS OF ENGINEERS     *
*   HYDROLOGIC ENGINEERING CENTER    *
*        609 SECOND STREET           *
*      DAVIS, CALIFORNIA 95616       *
*          (916) 756-1104            *
*                                    *
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X     X  XXXXXXX   XXXXX          X
X     X  X        X     X        XX
X     X  X        X              X
XXXXXXX  XXXX     X        XXXXX  X
X     X  X        X              X
X     X  X        X     X        X
X     X  XXXXXXX   XXXXX         XXX
```

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL   LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM


```
          LINE      ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

                    *DIAGRAM
 *** FREE ***
               1    ID   RED ROCK TRAIL TO FY19-87
               2    ID   US FEDERAL HIGHWAY ADMINISTRATION
               3    ID   PN WXXY4000
               4    ID
               5    ID   HEC-1 MODEL TAKEN FROM CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT (CCRFCD)
               6    ID   2018 MASTER PLAN UPDATE
               7    ID   FLAMINGO / TROPICANA WASHES WATERSHED
               8    ID   RECOMMENDED DRAINAGE SYSTEM WITH ULTIMATE DEVELOPMENT
               9    ID   INPUT FILE = FLAM3A.DAT
              10    ID   INPUT FILE DATE = MAY 2020
              11    ID   PRECIPITATION VALUES TAKEN FROM NOAA ATLAS 2 &
              12    ID   ADJUSTED PER CCRFCD HYDRAULIC CRITERIA & DRAINAGE DESIGN MANUAL TABLE 501
              13    ID   DESIGN STORM = 50-YEAR, 6-HOUR STORM
              14    ID   STORM DISTRIBUTION = SDN4
              15    ID   STORM CENTERING = SERIES A: REGIONAL DETENTION BASIN FLOWS NOT DIVERTED OUT
              16    ID   MODELED BY JACOBS (DAVE BERGH, PE)
              17    ID
              18    ID   JR CARDS CONTAIN DARFS BASED ON THE FOLLOWING VALUES:
              19    ID
              20    ID         AREA    DARF
              21    ID         SQ.MI.
              22    ID                 SDN 3   SDN 4   SDN 5
              23    ID         0 - 0.5 0.990
              24    ID         0.5 - 1 0.975
              25    ID         1 - 2   0.950
              26    ID         2 - 3   0.925
              27    ID         3 - 4   0.915
              28    ID         4 - 5   0.908
              29    ID         5 - 6   0.903
              30    ID         6 - 7   0.895
              31    ID         7 - 8   0.885
              32    ID         8 - 9           0.875
              33    ID         9 - 10          0.865
              34    ID         10 - 11         0.857
              35    ID         11 - 12         0.850
              36    ID         12 - 16                 0.832
              37    ID         16 - 20                 0.804
              38    ID         20 - 30                 0.765
              39    ID         30 - 40                 0.725
              40    ID         40 - 50                 0.695
              41    ID         50 - 100                0.640
              42    ID         100 - 150               0.580
              43    ID         150 - 200               0.530
              44    ID
              45    IT      5       0       0     300
              46    IO      5       0       0
              47    IN      5       0       0
              48    JR    PREC   0.875   0.865   0.857    0.85
                    *
```



```
          LINE      ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

              49    KK     RR1
              50    BA   4.225
              51    PB    3.59
              52    PC       0    0.02   0.058   0.075   0.099   0.126   0.137   0.145   0.149   0.151
              53    PC   0.155   0.156   0.159   0.162   0.169   0.172   0.179   0.189   0.201   0.211
              54    PC    0.22   0.228   0.232    0.24   0.246   0.252    0.26   0.269   0.276   0.283
              55    PC   0.286   0.292   0.302   0.312   0.321   0.332   0.352   0.376   0.415   0.462
              56    PC    0.53    0.61    0.71   0.732   0.756   0.782   0.799   0.813   0.823    0.83
              57    PC   0.835   0.844   0.851   0.864   0.885   0.908   0.924   0.944   0.968   0.973
              58    PC   0.978   0.982   0.984   0.986   0.988   0.991   0.992   0.993   0.994   0.997
              59    PC   0.998   0.999       1
              60    LS       0    85.8
              61    UD   0.443
                    *
              62    KK     RR2
              63    BA   3.547
              64    PB    3.64
              65    LS       0    86.2
              66    UD   0.545
                    *
              67    KK    RRR2
              68    KM   MUSKINGUM ROUTING UNSTABLE - USED MUSKINGUM-CUNGE
              69    KM   NATURAL WASH
              70    RD    1700   0.076    0.04       0    TRAP     100       2
                    *
              71    KK    CRR2
              72    KM   COMBINE RR1 AND RRR2
              73    HC       2
                    *
              74    KK   RCRR2
              75    KM   ROUTE CRR2 TO CRR3
              76    KM   NATURAL WASH
              77    KM   TRAVEL LENGTH = 15850
              78    KM   SLOPE = 0.043
              79    KM   N = 0.04
              80    KM   HYDRAULIC RADIUS = 1.5
              81    KM   VELOCITY = 16.2
              82    RM       3   0.272    0.15
                    *
              83    KK     RR5
              84    BA   7.132
              85    PB    3.46
              86    LS       0    87.9
              87    UD   0.615
                    *
```



```
          LINE      ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

              88    KK   R-RR5
              89    KM   ROUTE RR5 THROUGH RR3 TO CRR3
              90    KM   NATURAL WASH
              91    KM   TRAVEL LENGTH = 10700
              92    KM   SLOPE = 0.037
              93    KM   N = 0.04
              94    KM   HYDRAULIC RADIUS = 1.5
              95    KM   VELOCITY = 15
              96    RM       2   0.198    0.15
                    *
              97    KK     RR3
              98    BA  14.983
              99    PB    3.34
             100    LS       0      87
             101    UD   0.761
                    *
             102    KK    CRR3
             103    KM   COMBINE RCRR2, R-RR5, AND RR3
             104    HC       3
                    *
             105    KK   RCRR3
             106    KM   ROUTE CRR3 THROUGH RR10 TO CRR10
             107    KM   NATURAL WASH
             108    KM   TRAVEL LENGTH = 20700
             109    KM   SLOPE = 0.025
             110    KM   N = 0.04
             111    KM   HYDRAULIC RADIUS = 1.5
             112    KM   VELOCITY = 12.3
             113    RM       6   0.466    0.15
                    *
             114    KK    RR10
             115    BA   8.775
             116    PB    3.06
             117    LS       0    86.1
             118    UD   0.882
```

```
                 *

  119            KK   CRR10
  120            KM   COMBINE RCRR3 AND RR10
  121            HC       2
                 *

  122            KK  RCRR10
  123            KM   ROUTE CRR10 THROUGH 104A TO C104A (RED ROCK DETENTION BASIN)
  124            KM   NATURAL WASH
  125            KM   TRAVEL LENGTH = 14500
  126            KM   SLOPE = 0.021
  127            KM   N = 0.04
  128            KM   HYDRAULIC RADIUS = 1.5
  129            KM   VELOCITY = 11.3
1                                    HEC-1 INPUT                                    PAGE  4

 LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  130            RM       4   0.356    0.15
                 *

  131            KK   RR12A
  132            BA   5.821
  133            PB    3.20
  134            LS       0    87.6
  135            UD   0.728
                 *

  136            KK R-RR12A
  137            KM   ROUTE RR12A THROUGH 104A TO C104A (RED ROCK DETENTION BASIN)
  138            KM   NATURAL WASH
  139            KM   TRAVEL LENGTH = 12000
  140            KM   SLOPE = 0.026
  141            KM   N = 0.04
  142            KM   HYDRAULIC RADIUS = 1.5
  143            KM   VELOCITY = 12.6
  144            RM       3   0.265    0.15
                 *

  145            KK    104A
  146            BA   3.391
  147            PB    2.99
  148            LS       0    81.3
  149            UD   0.801
                 *

  150            KK   C104A
  151            KM   COMBINE RCRR10, R-RR12A, AND 104A
  152            HC       3
                 *

  153            KK     RD1
  154            BA   0.431
  155            PB    3.16
  156            LS       0    86.6
  157            UD   0.195
                 *

  158            KK   R-RD1
  159            KM   ROUTE RD1 THROUGH RD2 TO CRD2
  160            KM   FUTURE CONCRETE CHANNEL
  161            RD    5100   0.061   0.015       0    TRAP      12       2
                 *

  162            KK     RD2
  163            BA   0.473
  164            PB    3.10
  165            LS       0    91.2
  166            UD   0.167
                 *
1                                    HEC-1 INPUT                                    PAGE  5

 LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  167            KK    CRD2
  168            KM   COMBINE R-RD1 AND RD2
  169            HC       2
                 *

  170            KK   RCRD2
  171            KM   ROUTE CRD2 TO CRD3 (RED ROCK DETENTION BASIN)
  172            KM   FUTURE CONCRETE CHANNEL
  173            RD    4600    0.05   0.015       0    TRAP      12       2
                 *

  174            KK     RD3
  175            BA    0.33
  176            PB    3.06
  177            LS       0    90.3
  178            UD   0.168
                 *

  179            KK    CRD3
  180            KM   COMBINE RCRD2 AND RD3
  181            HC       2
                 *

  182            KK   RR14A
  183            BA   4.602
  184            PB    3.28
  185            LS       0    87.3
  186            UD   0.725
                 *

  187            KK R-RR14A
  188            KM   ROUTE RR14A THROUGH RD4 TO CRD4
  189            KM   FUTURE CONCRETE CHANNEL
  190            RD    5500   0.071   0.015       0    TRAP      12       2
                 *

  191            KK     RD4
  192            BA   0.402
  193            PB    3.16
  194            LS       0    85.1
  195            UD   0.177
                 *

  196            KK    CRD4
  197            KM   COMBINE R-RR14A AND RD4
  198            HC       2
                 *

  199            KK   RCRD4
  200            KM   ROUTE CRD4 THROUGH RD5 TO CRD5
  201            KM   FUTURE CONCRETE CHANNEL
  202            RD    4550   0.067   0.015       0    TRAP      20       2
                 *
1                                    HEC-1 INPUT                                    PAGE  6

 LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  203            KK     RD5
  204            BA    0.37
  205            PB    3.10
  206            LS       0    86.2
  207            UD   0.163
                 *

  208            KK    CRD5
  209            KM   COMBINE RCRD4 AND RD5
  210            HC       2
                 *

  211            KK   RCRD5
  212            KM   ROUTE CRD5 THROUGH RD6 TO CRD6 (RED ROCK DETENTION BASIN)
  213            KM   FUTURE CONCRETE CHANNEL
  214            RD    5600   0.047   0.015       0    TRAP      20       2
                 *

  215            KK     RD6
  216            BA    0.25
  217            PB    3.06
  218            LS       0      90
  219            UD    0.16
                 *

  220            KK    CRD6
  221            KM   COMBINE RCRD5 AND RD6
  222            HC       2
                 *

  223            KK    INRR
  224            KM   COMBINE C104A, CRD3, AND CRD6 - TOTAL INFLOW TO RED ROCK DETENTION BASIN
  225            KO       1
  226            HC       3
                 * ============================================================

  227            KK    RRDB
  228            KM   RED ROCK DETENTION BASIN
  229            KM   TAKEN FROM THE CORP MODELS FOR RED ROCK DETENTION BASIN
  230            KM   100YR COMPUTED PROBABILITY DETENTION DESIGN
  231            KM   FACILITY ID-MILE = RRWA 0716
  232            KM   STORAGE VOLUME = 2007 ACRE-FEET
  233            KM   OUTLET = 27"H x 27"W RCB ORIFICE
  234            KM   100-YR DISCHARGE = 182 CFS
  235            KM   SPILLWAY LENGTH = 600 FT
  236            KM   AUXILLARY OGEE SPILLWAY LENGTH = 323 FT
  237            KM   SPILLWAY CREST ELEVATION = 3212.5 FT NGVD
  238            KM   PMF DISCHARGE = 110000 CFS
  239            KM   TOP OF DAM ELEVATION = 3225 FT NGVD
  240            KO       1
  241            RS       1    STOR      -1
  242            SV       0       9     107     231     372     529     705     903    1125    1376
  243            SV    1659    1974    2007    2115    2331    2690    2933
  244            SQ       0      10      57      80      99     114     128     140     151     162
```

```
  LINE          ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

  245           SQ     171     181     182    8654   33270  110918  163477
  246           SE    3161    3162    3167    3172    3177    3182    3187    3192    3197    3202
  247           SE    3207    3212  3212.5    3214    3217    3222    3225
                * ========================================================

  248           KK *DOUTRR
  249           KM   DIVERT SPILLWAY OVERFLOW IN EXCESS OF CORPS DESIGN OUTFLOW
  250           DT*D-RROUT
  251           DI       0     182    3000    5000   10000
  252           DQ       0       0    2818    4818    9818
                *

  253           KK  ROUTRR
  254           KM   ROUTE OUTFLOW FROM RED ROCK DETENTION BASIN THROUGH R3A TO CR3A
  255           KM   FACILITY = RED ROCK CHANNEL
  256           KM   FACILITY # = RRWA 0714, 0709, 0701
  257           KM   LINING = RCP
  258           KM   LINING = RIPRAP CHNL 10'W X 6'D; 2:1SS
  259           RD    1500   0.008    0.04       0    TRAP      10       2
                *

  260           KK     R3A
  261           BA   0.186
  262           PB    2.93
  263           LS       0    84.3
  264           UD    0.11
                *

  265           KK    CR3A
  266           KM   COMBINE OUTFLOW FROM RED ROCK DETENTION BASIN WITH R3A
  267           HC       2
                *

  268           KK   RCR3A
  269           KM   ROUTE CR3A THROUGH UFR1 TO CUFR1
  270           KM   FACILITY = RED ROCK CHANNEL
  271           KM   FACILITY # = RRWA 0695, 0692, 0608, 0607
  272           KM   LINING = RCP
  273           RD    5045  0.0055   0.013       0    CIRC       8       0
                *

  274           ZZ
```

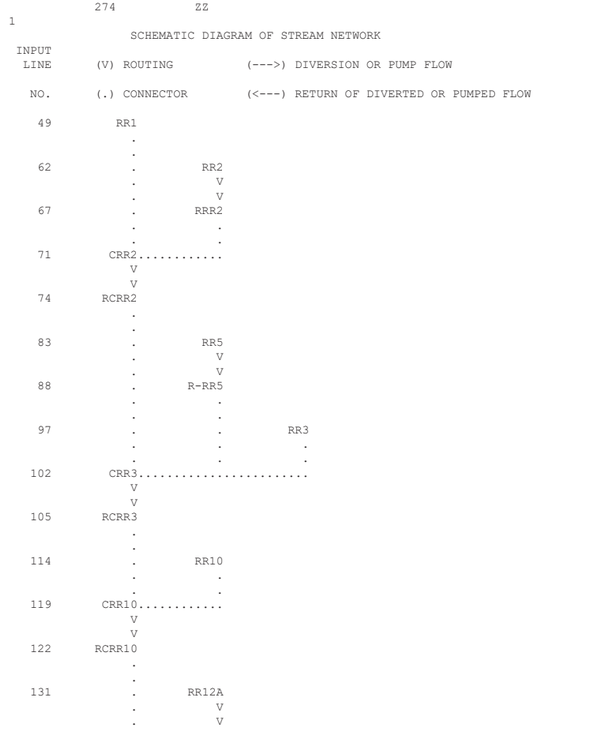
1

SCHEMATIC DIAGRAM OF STREAM NETWORK

INPUT

LINE (V) ROUTING (---->) DIVERSION OR PUMP FLOW

NO. (.) CONNECTOR (<---) RETURN OF DIVERTED OR PUMPED FLOW



(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

```
1*****************************************
 *                                       *
 *   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
 *             JUN   1998                *
 *           VERSION 4.1                 *
 *                                       *
 *  RUN DATE   20MAY20  TIME  09:44:11   *
 *                                       *
 *****************************************
```

```
 ***************************************
 *                                     *
 *    U.S. ARMY CORPS OF ENGINEERS     *
 *    HYDROLOGIC ENGINEERING CENTER    *
 *         609 SECOND STREET           *
 *       DAVIS, CALIFORNIA 95616       *
 *           (916) 756-1104            *
 *                                     *
 ***************************************
```

RED ROCK TRAIL TO FY19-87
US FEDERAL HIGHWAY ADMINISTRATION
PN WXXY4000

HEC-1 MODEL TAKEN FROM CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT (CCRFCD)
2018 MASTER PLAN UPDATE
FLAMINGO / TROPICANA WASHES WATERSHED
RECOMMENDED DRAINAGE SYSTEM WITH ULTIMATE DEVELOPMENT
INPUT FILE = FLAM3A.DAT
INPUT FILE DATE = MAY 2020
PRECIPITATION VALUES TAKEN FROM NOAA ATLAS 2 &
ADJUSTED PER CCRFCD HYDRAULIC CRITERIA & DRAINAGE DESIGN MANUAL TABLE 501
DESIGN STORM = 50-YEAR, 6-HOUR STORM
STORM DISTRIBUTION = SDN4
STORM CENTERING = SERIES A: REGIONAL DETENTION BASIN FLOWS NOT DIVERTED OUT
MODELED BY JACOBS (DAVE BERGH, PE)

JR CARDS CONTAIN DARFS BASED ON THE FOLLOWING VALUES:

AREA SQ.MI.	DARF SDN 3	SDN 4	SDN 5
0 - 0.5	0.990		
0.5 - 1	0.975		
1 - 2	0.950		
2 - 3	0.925		
3 - 4	0.915		
4 - 5	0.908		
5 - 6	0.903		
6 - 7	0.895		
7 - 8	0.885		
8 - 9		0.875	
9 - 10		0.865	
10 - 11		0.857	
11 - 12		0.850	
12 - 16			0.832
16 - 20			0.804
20 - 30			0.765
30 - 40			0.725
40 - 50			0.695
50 - 100			0.640
100 - 150			0.580
150 - 200			0.530

```
 46 IO          OUTPUT CONTROL VARIABLES
                     IPRNT          5  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL          0.  HYDROGRAPH PLOT SCALE

    IT          HYDROGRAPH TIME DATA
                      NMIN          5  MINUTES IN COMPUTATION INTERVAL
                     IDATE      1    0  STARTING DATE
                     ITIME       0000  STARTING TIME
                        NQ        300  NUMBER OF HYDROGRAPH ORDINATES
                    NDDATE      2    0  ENDING DATE
                    NDTIME       0055  ENDING TIME
                     ICENT         19  CENTURY MARK

                  COMPUTATION INTERVAL     .08 HOURS
                      TOTAL TIME BASE   24.92 HOURS

          ENGLISH UNITS
               DRAINAGE AREA         SQUARE MILES
               PRECIPITATION DEPTH   INCHES
               LENGTH, ELEVATION     FEET
               FLOW                  CUBIC FEET PER SECOND
               STORAGE VOLUME        ACRE-FEET
               SURFACE AREA          ACRES
               TEMPERATURE           DEGREES FAHRENHEIT

    JP          MULTI-PLAN OPTION
                     NPLAN          1  NUMBER OF PLANS

    JR          MULTI-RATIO OPTION
                    RATIOS OF PRECIPITATION
                    .88      .87      .86      .85


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


            **************
            *            *
223 KK      *      INRR  *
            *            *
            **************

225 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          1  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
```

```
                     QSCAL          0.  HYDROGRAPH PLOT SCALE

226 HC          HYDROGRAPH COMBINATION
                     ICOMP          3  NUMBER OF HYDROGRAPHS TO COMBINE

                                       ***
```

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .88

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.		1	0615	76	11698.		1	1230	151	0.		1	1845	226	0.
1	0005	2	0.		1	0620	77	10851.		1	1235	152	0.		1	1850	227	0.
1	0010	3	0.		1	0625	78	9965.		1	1240	153	0.		1	1855	228	0.
1	0015	4	0.		1	0630	79	9059.		1	1245	154	0.		1	1900	229	0.
1	0020	5	1.		1	0635	80	8153.		1	1250	155	0.		1	1905	230	0.
1	0025	6	9.		1	0640	81	7273.		1	1255	156	0.		1	1910	231	0.
1	0030	7	28.		1	0645	82	6441.		1	1300	157	0.		1	1915	232	0.
1	0035	8	48.		1	0650	83	5671.		1	1305	158	0.		1	1920	233	0.
1	0040	9	55.		1	0655	84	4971.		1	1310	159	0.		1	1925	234	0.
1	0045	10	55.		1	0700	85	4342.		1	1315	160	0.		1	1930	235	0.
1	0050	11	54.		1	0705	86	3782.		1	1320	161	0.		1	1935	236	0.
1	0055	12	56.		1	0710	87	3287.		1	1325	162	0.		1	1940	237	0.
1	0100	13	63.		1	0715	88	2848.		1	1330	163	0.		1	1945	238	0.
1	0105	14	76.		1	0720	89	2461.		1	1335	164	0.		1	1950	239	0.
1	0110	15	96.		1	0725	90	2119.		1	1340	165	0.		1	1955	240	0.
1	0115	16	124.		1	0730	91	1816.		1	1345	166	0.		1	2000	241	0.
1	0120	17	157.		1	0735	92	1549.		1	1350	167	0.		1	2005	242	0.
1	0125	18	197.		1	0740	93	1315.		1	1355	168	0.		1	2010	243	0.
1	0130	19	252.		1	0745	94	1110.		1	1400	169	0.		1	2015	244	0.
1	0135	20	321.		1	0750	95	933.		1	1405	170	0.		1	2020	245	0.
1	0140	21	397.		1	0755	96	780.		1	1410	171	0.		1	2025	246	0.
1	0145	22	474.		1	0800	97	650.		1	1415	172	0.		1	2030	247	0.
1	0150	23	548.		1	0805	98	539.		1	1420	173	0.		1	2035	248	0.
1	0155	24	621.		1	0810	99	447.		1	1425	174	0.		1	2040	249	0.
1	0200	25	702.		1	0815	100	369.		1	1430	175	0.		1	2045	250	0.
1	0205	26	792.		1	0820	101	304.		1	1435	176	0.		1	2050	251	0.
1	0210	27	892.		1	0825	102	251.		1	1440	177	0.		1	2055	252	0.
1	0215	28	1003.		1	0830	103	206.		1	1445	178	0.		1	2100	253	0.
1	0220	29	1127.		1	0835	104	170.		1	1450	179	0.		1	2105	254	0.
1	0225	30	1257.		1	0840	105	140.		1	1455	180	0.		1	2110	255	0.
1	0230	31	1388.		1	0845	106	115.		1	1500	181	0.		1	2115	256	0.
1	0235	32	1519.		1	0850	107	94.		1	1505	182	0.		1	2120	257	0.
1	0240	33	1663.		1	0855	108	77.		1	1510	183	0.		1	2125	258	0.
1	0245	34	1831.		1	0900	109	63.		1	1515	184	0.		1	2130	259	0.
1	0250	35	2016.		1	0905	110	51.		1	1520	185	0.		1	2135	260	0.
1	0255	36	2201.		1	0910	111	41.		1	1525	186	0.		1	2140	261	0.
1	0300	37	2390.		1	0915	112	33.		1	1530	187	0.		1	2145	262	0.
1	0305	38	2610.		1	0920	113	26.		1	1535	188	0.		1	2150	263	0.
1	0310	39	2891.		1	0925	114	20.		1	1540	189	0.		1	2155	264	0.
1	0315	40	3267.		1	0930	115	16.		1	1545	190	0.		1	2200	265	0.
1	0320	41	3773.		1	0935	116	12.		1	1550	191	0.		1	2205	266	0.
1	0325	42	4467.		1	0940	117	9.		1	1555	192	0.		1	2210	267	0.
1	0330	43	5390.		1	0945	118	7.		1	1600	193	0.		1	2215	268	0.
1	0335	44	6363.		1	0950	119	5.		1	1605	194	0.		1	2220	269	0.
1	0340	45	7039.		1	0955	120	4.		1	1610	195	0.		1	2225	270	0.
1	0345	46	7558.		1	1000	121	3.		1	1615	196	0.		1	2230	271	0.
1	0350	47	8262.		1	1005	122	2.		1	1620	197	0.		1	2235	272	0.
1	0355	48	9213.		1	1010	123	2.		1	1625	198	0.		1	2240	273	0.
1	0400	49	10332.		1	1015	124	1.		1	1630	199	0.		1	2245	274	0.
1	0405	50	11561.		1	1020	125	1.		1	1635	200	0.		1	2250	275	0.
1	0410	51	12884.		1	1025	126	1.		1	1640	201	0.		1	2255	276	0.
1	0415	52	14306.		1	1030	127	0.		1	1645	202	0.		1	2300	277	0.
1	0420	53	15830.		1	1035	128	0.		1	1650	203	0.		1	2305	278	0.
1	0425	54	17431.		1	1040	129	0.		1	1655	204	0.		1	2310	279	0.
1	0430	55	19093.		1	1045	130	0.		1	1700	205	0.		1	2315	280	0.
1	0435	56	20759.		1	1050	131	0.		1	1705	206	0.		1	2320	281	0.
1	0440	57	22298.		1	1055	132	0.		1	1710	207	0.		1	2325	282	0.
1	0445	58	23559.		1	1100	133	0.		1	1715	208	0.		1	2330	283	0.
1	0450	59	24485.		1	1105	134	0.		1	1720	209	0.		1	2335	284	0.
1	0455	60	25027.		1	1110	135	0.		1	1725	210	0.		1	2340	285	0.
1	0500	61	25086.		1	1115	136	0.		1	1730	211	0.		1	2345	286	0.
1	0505	62	24691.		1	1120	137	0.		1	1735	212	0.		1	2350	287	0.
1	0510	63	23957.		1	1125	138	0.		1	1740	213	0.		1	2355	288	0.
1	0515	64	22980.		1	1130	139	0.		1	1745	214	0.		2	0000	289	0.
1	0520	65	21846.		1	1135	140	0.		1	1750	215	0.		2	0005	290	0.
1	0525	66	20639.		1	1140	141	0.		1	1755	216	0.		2	0010	291	0.
1	0530	67	19435.		1	1145	142	0.		1	1800	217	0.		2	0015	292	0.
1	0535	68	18285.		1	1150	143	0.		1	1805	218	0.		2	0020	293	0.
1	0540	69	17227.		1	1155	144	0.		1	1810	219	0.		2	0025	294	0.
1	0545	70	16280.		1	1200	145	0.		1	1815	220	0.		2	0030	295	0.
1	0550	71	15446.		1	1205	146	0.		1	1820	221	0.		2	0035	296	0.
1	0555	72	14690.		1	1210	147	0.		1	1825	222	0.		2	0040	297	0.
1	0600	73	13969.		1	1215	148	0.		1	1830	223	0.		2	0045	298	0.
1	0605	74	13247.		1	1220	149	0.		1	1835	224	0.		2	0050	299	0.
1	0610	75	12495.		1	1225	150	0.		1	1840	225	0.		2	0055	300	0.

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 25086.	5.00	9415.	2379.	2292.	2292.
		(INCHES) 1.599	1.617	1.617	1.617
		(AC-FT) 4668.	4719.	4719.	4719.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .87

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	11526.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	10692.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	9820.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	8927.	1		1245	154	0.	1		1900	229	0.
1		0020	5	1.	1		0635	80	8035.	1		1250	155	0.	1		1905	230	0.
1		0025	6	8.	1		0640	81	7168.	1		1255	156	0.	1		1910	231	0.
1		0030	7	26.	1		0645	82	6348.	1		1300	157	0.	1		1915	232	0.
1		0035	8	45.	1		0650	83	5589.	1		1305	158	0.	1		1920	233	0.
1		0040	9	53.	1		0655	84	4899.	1		1310	159	0.	1		1925	234	0.
1		0045	10	52.	1		0700	85	4280.	1		1315	160	0.	1		1930	235	0.
1		0050	11	51.	1		0705	86	3728.	1		1320	161	0.	1		1935	236	0.
1		0055	12	53.	1		0710	87	3240.	1		1325	162	0.	1		1940	237	0.
1		0100	13	59.	1		0715	88	2808.	1		1330	163	0.	1		1945	238	0.
1		0105	14	71.	1		0720	89	2426.	1		1335	164	0.	1		1950	239	0.
1		0110	15	90.	1		0725	90	2088.	1		1340	165	0.	1		1955	240	0.
1		0115	16	116.	1		0730	91	1790.	1		1345	166	0.	1		2000	241	0.
1		0120	17	147.	1		0735	92	1527.	1		1350	167	0.	1		2005	242	0.
1		0125	18	185.	1		0740	93	1296.	1		1355	168	0.	1		2010	243	0.
1		0130	19	237.	1		0745	94	1094.	1		1400	169	0.	1		2015	244	0.
1		0135	20	303.	1		0750	95	919.	1		1405	170	0.	1		2020	245	0.
1		0140	21	376.	1		0755	96	769.	1		1410	171	0.	1		2025	246	0.
1		0145	22	449.	1		0800	97	640.	1		1415	172	0.	1		2030	247	0.
1		0150	23	520.	1		0805	98	532.	1		1420	173	0.	1		2035	248	0.
1		0155	24	591.	1		0810	99	440.	1		1425	174	0.	1		2040	249	0.
1		0200	25	668.	1		0815	100	364.	1		1430	175	0.	1		2045	250	0.
1		0205	26	756.	1		0820	101	300.	1		1435	176	0.	1		2050	251	0.
1		0210	27	853.	1		0825	102	247.	1		1440	177	0.	1		2055	252	0.
1		0215	28	961.	1		0830	103	204.	1		1445	178	0.	1		2100	253	0.
1		0220	29	1082.	1		0835	104	167.	1		1450	179	0.	1		2105	254	0.
1		0225	30	1209.	1		0840	105	138.	1		1455	180	0.	1		2110	255	0.
1		0230	31	1338.	1		0845	106	113.	1		1500	181	0.	1		2115	256	0.
1		0235	32	1467.	1		0850	107	93.	1		1505	182	0.	1		2120	257	0.
1		0240	33	1607.	1		0855	108	76.	1		1510	183	0.	1		2125	258	0.
1		0245	34	1772.	1		0900	109	62.	1		1515	184	0.	1		2130	259	0.
1		0250	35	1953.	1		0905	110	50.	1		1520	185	0.	1		2135	260	0.
1		0255	36	2134.	1		0910	111	41.	1		1525	186	0.	1		2140	261	0.
1		0300	37	2321.	1		0915	112	32.	1		1530	187	0.	1		2145	262	0.
1		0305	38	2538.	1		0920	113	26.	1		1535	188	0.	1		2150	263	0.
1		0310	39	2813.	1		0925	114	20.	1		1540	189	0.	1		2155	264	0.
1		0315	40	3179.	1		0930	115	16.	1		1545	190	0.	1		2200	265	0.
1		0320	41	3678.	1		0935	116	12.	1		1550	191	0.	1		2205	266	0.
1		0325	42	4357.	1		0940	117	9.	1		1555	192	0.	1		2210	267	0.
1		0330	43	5260.	1		0945	118	7.	1		1600	193	0.	1		2215	268	0.
1		0335	44	6221.	1		0950	119	5.	1		1605	194	0.	1		2220	269	0.
1		0340	45	6878.	1		0955	120	4.	1		1610	195	0.	1		2225	270	0.
1		0345	46	7392.	1		1000	121	3.	1		1615	196	0.	1		2230	271	0.
1		0350	47	8091.	1		1005	122	2.	1		1620	197	0.	1		2235	272	0.
1		0355	48	9028.	1		1010	123	2.	1		1625	198	0.	1		2240	273	0.
1		0400	49	10127.	1		1015	124	1.	1		1630	199	0.	1		2245	274	0.
1		0405	50	11340.	1		1020	125	1.	1		1635	200	0.	1		2250	275	0.
1		0410	51	12644.	1		1025	126	1.	1		1640	201	0.	1		2255	276	0.
1		0415	52	14040.	1		1030	127	0.	1		1645	202	0.	1		2300	277	0.
1		0420	53	15539.	1		1035	128	0.	1		1650	203	0.	1		2305	278	0.
1		0425	54	17117.	1		1040	129	0.	1		1655	204	0.	1		2310	279	0.
1		0430	55	18751.	1		1045	130	0.	1		1700	205	0.	1		2315	280	0.
1		0435	56	20395.	1		1050	131	0.	1		1705	206	0.	1		2320	281	0.
1		0440	57	21912.	1		1055	132	0.	1		1710	207	0.	1		2325	282	0.
1		0445	58	23154.	1		1100	133	0.	1		1715	208	0.	1		2330	283	0.
1		0450	59	24070.	1		1105	134	0.	1		1720	209	0.	1		2335	284	0.
1		0455	60	24609.	1		1110	135	0.	1		1725	210	0.	1		2340	285	0.
1		0500	61	24673.	1		1115	136	0.	1		1730	211	0.	1		2345	286	0.
1		0505	62	24288.	1		1120	137	0.	1		1735	212	0.	1		2350	287	0.
1		0510	63	23568.	1		1125	138	0.	1		1740	213	0.	1		2355	288	0.
1		0515	64	22611.	1		1130	139	0.	1		1745	214	0.	2		0000	289	0.
1		0520	65	21497.	1		1135	140	0.	1		1750	215	0.	2		0005	290	0.
1		0525	66	20312.	1		1140	141	0.	1		1755	216	0.	2		0010	291	0.
1		0530	67	19130.	1		1145	142	0.	1		1800	217	0.	2		0015	292	0.
1		0535	68	18000.	1		1150	143	0.	1		1805	218	0.	2		0020	293	0.
1		0540	69	16961.	1		1155	144	0.	1		1810	219	0.	2		0025	294	0.
1		0545	70	16031.	1		1200	145	0.	1		1815	220	0.	2		0030	295	0.
1		0550	71	15212.	1		1205	146	0.	1		1820	221	0.	2		0035	296	0.
1		0555	72	14468.	1		1210	147	0.	1		1825	222	0.	2		0040	297	0.
1		0600	73	13760.	1		1215	148	0.	1		1830	223	0.	2		0045	298	0.
1		0605	74	13050.	1		1220	149	0.	1		1835	224	0.	2		0050	299	0.
1		0610	75	12311.	1		1225	150	0.	1		1840	225	0.	2		0055	300	0.

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 24673.	5.00	9251.	2337.	2251.	2251.
		(INCHES) 1.572	1.588	1.588	1.588
		(AC-FT) 4587.	4636.	4636.	4636.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .86

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	11388.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	10565.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	9704.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	8822.	1		1245	154	0.	1		1900	229	0.
1		0020	5	1.	1		0635	80	7940.	1		1250	155	0.	1		1905	230	0.
1		0025	6	8.	1		0640	81	7084.	1		1255	156	0.	1		1910	231	0.
1		0030	7	25.	1		0645	82	6274.	1		1300	157	0.	1		1915	232	0.
1		0035	8	43.	1		0650	83	5524.	1		1305	158	0.	1		1920	233	0.
1		0040	9	51.	1		0655	84	4842.	1		1310	159	0.	1		1925	234	0.
1		0045	10	50.	1		0700	85	4230.	1		1315	160	0.	1		1930	235	0.
1		0050	11	48.	1		0705	86	3685.	1		1320	161	0.	1		1935	236	0.
1		0055	12	50.	1		0710	87	3202.	1		1325	162	0.	1		1940	237	0.
1		0100	13	56.	1		0715	88	2775.	1		1330	163	0.	1		1945	238	0.
1		0105	14	67.	1		0720	89	2398.	1		1335	164	0.	1		1950	239	0.
1		0110	15	85.	1		0725	90	2064.	1		1340	165	0.	1		1955	240	0.
1		0115	16	110.	1		0730	91	1770.	1		1345	166	0.	1		2000	241	0.
1		0120	17	139.	1		0735	92	1510.	1		1350	167	0.	1		2005	242	0.
1		0125	18	176.	1		0740	93	1281.	1		1355	168	0.	1		2010	243	0.
1		0130	19	226.	1		0745	94	1082.	1		1400	169	0.	1		2015	244	0.
1		0135	20	289.	1		0750	95	909.	1		1405	170	0.	1		2020	245	0.
1		0140	21	359.	1		0755	96	760.	1		1410	171	0.	1		2025	246	0.
1		0145	22	430.	1		0800	97	633.	1		1415	172	0.	1		2030	247	0.
1		0150	23	499.	1		0805	98	526.	1		1420	173	0.	1		2035	248	0.
1		0155	24	567.	1		0810	99	435.	1		1425	174	0.	1		2040	249	0.
1		0200	25	642.	1		0815	100	360.	1		1430	175	0.	1		2045	250	0.
1		0205	26	728.	1		0820	101	297.	1		1435	176	0.	1		2050	251	0.
1		0210	27	822.	1		0825	102	244.	1		1440	177	0.	1		2055	252	0.
1		0215	28	928.	1		0830	103	201.	1		1445	178	0.	1		2100	253	0.
1		0220	29	1047.	1		0835	104	166.	1		1450	179	0.	1		2105	254	0.
1		0225	30	1172.	1		0840	105	136.	1		1455	180	0.	1		2110	255	0.
1		0230	31	1298.	1		0845	106	112.	1		1500	181	0.	1		2115	256	0.
1		0235	32	1425.	1		0850	107	92.	1		1505	182	0.	1		2120	257	0.
1		0240	33	1563.	1		0855	108	75.	1		1510	183	0.	1		2125	258	0.
1		0245	34	1725.	1		0900	109	61.	1		1515	184	0.	1		2130	259	0.
1		0250	35	1903.	1		0905	110	50.	1		1520	185	0.	1		2135	260	0.
1		0255	36	2082.	1		0910	111	40.	1		1525	186	0.	1		2140	261	0.
1		0300	37	2264.	1		0915	112	32.	1		1530	187	0.	1		2145	262	0.
1		0305	38	2478.	1		0920	113	25.	1		1535	188	0.	1		2150	263	0.
1		0310	39	2750.	1		0925	114	20.	1		1540	189	0.	1		2155	264	0.
1		0315	40	3112.	1		0930	115	15.	1		1545	190	0.	1		2200	265	0.
1		0320	41	3601.	1		0935	116	12.	1		1550	191	0.	1		2205	266	0.
1		0325	42	4274.	1		0940	117	9.	1		1555	192	0.	1		2210	267	0.
1		0330	43	5170.	1		0945	118	7.	1		1600	193	0.	1		2215	268	0.
1		0335	44	6119.	1		0950	119	5.	1		1605	194	0.	1		2220	269	0.
1		0340	45	6772.	1		0955	120	4.	1		1610	195	0.	1		2225	270	0.
1		0345	46	7275.	1		1000	121	3.	1		1615	196	0.	1		2230	271	0.
1		0350	47	7961.	1		1005	122	2.	1		1620	197	0.	1		2235	272	0.
1		0355	48	8883.	1		1010	123	2.	1		1625	198	0.	1		2240	273	0.
1		0400	49	9968.	1		1015	124	1.	1		1630	199	0.	1		2245	274	0.
1		0405	50	11162.	1		1020	125	1.	1		1635	200	0.	1		2250	275	0.
1		0410	51	12446.	1		1025	126	1.	1		1640	201	0.	1		2255	276	0.
1		0415	52	13826.	1		1030	127	0.	1		1645	202	0.	1		2300	277	0.
1		0420	53	15309.	1		1035	128	0.	1		1650	203	0.	1		2305	278	0.
1		0425	54	16865.	1		1040	129	0.	1		1655	204	0.	1		2310	279	0.
1		0430	55	18481.	1		1045	130	0.	1		1700	205	0.	1		2315	280	0.
1		0435	56	20104.	1		1050	131	0.	1		1705	206	0.	1		2320	281	0.
1		0440	57	21603.	1		1055	132	0.	1		1710	207	0.	1		2325	282	0.
1		0445	58	22833.	1		1100	133	0.	1		1715	208	0.	1		2330	283	0.
1		0450	59	23741.	1		1105	134	0.	1		1720	209	0.	1		2335	284	0.
1		0455	60	24275.	1		1110	135	0.	1		1725	210	0.	1		2340	285	0.
1		0500	61	24339.	1		1115	136	0.	1		1730	211	0.	1		2345	286	0.
1		0505	62	23962.	1		1120	137	0.	1		1735	212	0.	1		2350	287	0.
1		0510	63	23257.	1		1125	138	0.	1		1740	213	0.	1		2355	288	0.
1		0515	64	22314.	1		1130	139	0.	1		1745	214	0.	2		0000	289	0.
1		0520	65	21218.	1		1135	140	0.	1		1750	215	0.	2		0005	290	0.
1		0525	66	20050.	1		1140	141	0.	1		1755	216	0.	2		0010	291	0.
1		0530	67	18885.	1		1145	142	0.	1		1800	217	0.	2		0015	292	0.

DA MON	HRMN	ORD	FLOW	DA MON	HRMN	ORD	FLOW	DA MON	HRMN	ORD	FLOW	DA MON	HRMN	ORD	FLOW
1	0535	68	17774.	1	1150	143	0.	1	1805	218	0.	2	0020	293	0.
1	0540	69	16749.	1	1155	144	0.	1	1810	219	0.	2	0025	294	0.
1	0545	70	15832.	1	1200	145	0.	1	1815	220	0.	2	0030	295	0.
1	0550	71	15024.	1	1205	146	0.	1	1820	221	0.	2	0035	296	0.
1	0555	72	14291.	1	1210	147	0.	1	1825	222	0.	2	0040	297	0.
1	0600	73	13593.	1	1215	148	0.	1	1830	223	0.	2	0045	298	0.
1	0605	74	12893.	1	1220	149	0.	1	1835	224	0.	2	0050	299	0.
1	0610	75	12163.	1	1225	150	0.	1	1840	225	0.	2	0055	300	0.

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
+ 24339.	5.00	(CFS)	9122.	2304.	2219.	2219.
		(INCHES)	1.550	1.566	1.566	1.566
		(AC-FT)	4523.	4570.	4570.	4570.

CUMULATIVE AREA = 54.73 SQ MI

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HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .85

DA MON	HRMN	ORD	FLOW	DA MON	HRMN	ORD	FLOW	DA MON	HRMN	ORD	FLOW	DA MON	HRMN	ORD	FLOW
1	0000	1	0.	1	0615	76	11268.	1	1230	151	0.	1	1845	226	0.
1	0005	2	0.	1	0620	77	10455.	1	1235	152	0.	1	1850	227	0.
1	0010	3	0.	1	0625	78	9603.	1	1240	153	0.	1	1855	228	0.
1	0015	4	0.	1	0630	79	8729.	1	1245	154	0.	1	1900	229	0.
1	0020	5	1.	1	0635	80	7858.	1	1250	155	0.	1	1905	230	0.
1	0025	6	7.	1	0640	81	7011.	1	1255	156	0.	1	1910	231	0.
1	0030	7	24.	1	0645	82	6209.	1	1300	157	0.	1	1915	232	0.
1	0035	8	42.	1	0650	83	5467.	1	1305	158	0.	1	1920	233	0.
1	0040	9	49.	1	0655	84	4792.	1	1310	159	0.	1	1925	234	0.
1	0045	10	49.	1	0700	85	4187.	1	1315	160	0.	1	1930	235	0.
1	0050	11	46.	1	0705	86	3647.	1	1320	161	0.	1	1935	236	0.
1	0055	12	48.	1	0710	87	3169.	1	1325	162	0.	1	1940	237	0.
1	0100	13	53.	1	0715	88	2747.	1	1330	163	0.	1	1945	238	0.
1	0105	14	64.	1	0720	89	2374.	1	1335	164	0.	1	1950	239	0.
1	0110	15	81.	1	0725	90	2043.	1	1340	165	0.	1	1955	240	0.
1	0115	16	105.	1	0730	91	1752.	1	1345	166	0.	1	2000	241	0.
1	0120	17	133.	1	0735	92	1494.	1	1350	167	0.	1	2005	242	0.
1	0125	18	168.	1	0740	93	1268.	1	1355	168	0.	1	2010	243	0.
1	0130	19	216.	1	0745	94	1071.	1	1400	169	0.	1	2015	244	0.
1	0135	20	277.	1	0750	95	900.	1	1405	170	0.	1	2020	245	0.
1	0140	21	345.	1	0755	96	752.	1	1410	171	0.	1	2025	246	0.
1	0145	22	413.	1	0800	97	627.	1	1415	172	0.	1	2030	247	0.
1	0150	23	480.	1	0805	98	520.	1	1420	173	0.	1	2035	248	0.
1	0155	24	547.	1	0810	99	431.	1	1425	174	0.	1	2040	249	0.
1	0200	25	620.	1	0815	100	356.	1	1430	175	0.	1	2045	250	0.
1	0205	26	703.	1	0820	101	294.	1	1435	176	0.	1	2050	251	0.
1	0210	27	796.	1	0825	102	242.	1	1440	177	0.	1	2055	252	0.
1	0215	28	900.	1	0830	103	199.	1	1445	178	0.	1	2100	253	0.
1	0220	29	1016.	1	0835	104	164.	1	1450	179	0.	1	2105	254	0.
1	0225	30	1140.	1	0840	105	135.	1	1455	180	0.	1	2110	255	0.
1	0230	31	1264.	1	0845	106	111.	1	1500	181	0.	1	2115	256	0.
1	0235	32	1389.	1	0850	107	91.	1	1505	182	0.	1	2120	257	0.
1	0240	33	1525.	1	0855	108	74.	1	1510	183	0.	1	2125	258	0.
1	0245	34	1684.	1	0900	109	61.	1	1515	184	0.	1	2130	259	0.
1	0250	35	1860.	1	0905	110	49.	1	1520	185	0.	1	2135	260	0.
1	0255	36	2036.	1	0910	111	40.	1	1525	186	0.	1	2140	261	0.
1	0300	37	2217.	1	0915	112	32.	1	1530	187	0.	1	2145	262	0.
1	0305	38	2426.	1	0920	113	25.	1	1535	188	0.	1	2150	263	0.
1	0310	39	2693.	1	0925	114	20.	1	1540	189	0.	1	2155	264	0.
1	0315	40	3051.	1	0930	115	15.	1	1545	190	0.	1	2200	265	0.
1	0320	41	3537.	1	0935	116	12.	1	1550	191	0.	1	2205	266	0.
1	0325	42	4197.	1	0940	117	9.	1	1555	192	0.	1	2210	267	0.
1	0330	43	5079.	1	0945	118	7.	1	1600	193	0.	1	2215	268	0.
1	0335	44	6015.	1	0950	119	5.	1	1605	194	0.	1	2220	269	0.
1	0340	45	6661.	1	0955	120	4.	1	1610	195	0.	1	2225	270	0.
1	0345	46	7168.	1	1000	121	3.	1	1615	196	0.	1	2230	271	0.
1	0350	47	7842.	1	1005	122	2.	1	1620	197	0.	1	2235	272	0.
1	0355	48	8752.	1	1010	123	2.	1	1625	198	0.	1	2240	273	0.
1	0400	49	9825.	1	1015	124	1.	1	1630	199	0.	1	2245	274	0.
1	0405	50	11009.	1	1020	125	1.	1	1635	200	0.	1	2250	275	0.
1	0410	51	12279.	1	1025	126	1.	1	1640	201	0.	1	2255	276	0.
1	0415	52	13641.	1	1030	127	0.	1	1645	202	0.	1	2300	277	0.
1	0420	53	15105.	1	1035	128	0.	1	1650	203	0.	1	2305	278	0.
1	0425	54	16645.	1	1040	129	0.	1	1655	204	0.	1	2310	279	0.
1	0430	55	18244.	1	1045	130	0.	1	1700	205	0.	1	2315	280	0.
1	0435	56	19849.	1	1050	131	0.	1	1705	206	0.	1	2320	281	0.
1	0440	57	21334.	1	1055	132	0.	1	1710	207	0.	1	2325	282	0.
1	0445	58	22551.	1	1100	133	0.	1	1715	208	0.	1	2330	283	0.
1	0450	59	23450.	1	1105	134	0.	1	1720	209	0.	1	2335	284	0.
1	0455	60	23982.	1	1110	135	0.	1	1725	210	0.	1	2340	285	0.
1	0500	61	24050.	1	1115	136	0.	1	1730	211	0.	1	2345	286	0.
1	0505	62	23681.	1	1120	137	0.	1	1735	212	0.	1	2350	287	0.

DA MON	HRMN	ORD	FLOW	DA MON	HRMN	ORD	FLOW	DA MON	HRMN	ORD	FLOW	DA MON	HRMN	ORD	FLOW
1	0510	63	22984.	1	1125	138	0.	1	1740	213	0.	1	2355	288	0.
1	0515	64	22056.	1	1130	139	0.	1	1745	214	0.	2	0000	289	0.
1	0520	65	20974.	1	1135	140	0.	1	1750	215	0.	2	0005	290	0.
1	0525	66	19823.	1	1140	141	0.	1	1755	216	0.	2	0010	291	0.
1	0530	67	18674.	1	1145	142	0.	1	1800	217	0.	2	0015	292	0.
1	0535	68	17575.	1	1150	143	0.	1	1805	218	0.	2	0020	293	0.
1	0540	69	16563.	1	1155	144	0.	1	1810	219	0.	2	0025	294	0.
1	0545	70	15658.	1	1200	145	0.	1	1815	220	0.	2	0030	295	0.
1	0550	71	14860.	1	1205	146	0.	1	1820	221	0.	2	0035	296	0.
1	0555	72	14137.	1	1210	147	0.	1	1825	222	0.	2	0040	297	0.
1	0600	73	13447.	1	1215	148	0.	1	1830	223	0.	2	0045	298	0.
1	0605	74	12755.	1	1220	149	0.	1	1835	224	0.	2	0050	299	0.
1	0610	75	12034.	1	1225	150	0.	1	1840	225	0.	2	0055	300	0.

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
+ 24050.	5.00	(CFS)	9008.	2275.	2191.	2191.
		(INCHES)	1.530	1.546	1.546	1.546
		(AC-FT)	4467.	4513.	4513.	4513.

CUMULATIVE AREA = 54.73 SQ MI

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227 KK * RRDB *

240 KO OUTPUT CONTROL VARIABLES
IPRNT 1 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE

HYDROGRAPH ROUTING DATA

241 RS STORAGE ROUTING
NSTPS 1 NUMBER OF SUBREACHES
ITYP STOR TYPE OF INITIAL CONDITION
RSVRIC -1.00 INITIAL CONDITION
X .00 WORKING R AND D COEFFICIENT

242 SV	STORAGE	.0	9.0	107.0	231.0	372.0	529.0	705.0	903.0	1125.0	1376.0
		1659.0	1974.0	2007.0	2115.0	2331.0	2690.0	2933.0			
244 SQ	DISCHARGE	0.	10.	57.	80.	99.	114.	128.	140.	151.	162.
		171.	181.	182.	8654.	33270.	110918.	163477.			
246 SE	ELEVATION	3161.00	3162.00	3167.00	3172.00	3177.00	3182.00	3187.00	3192.00	3197.00	3202.00
		3207.00	3212.00	3212.50	3214.00	3217.00	3222.00	3225.00			

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HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .88

DA MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000	1	0.	.0	3161.0	1	0820	101	464.	2010.6	3212.6	1	1640	201	178.	1892.6	3210.7
1	0005	2	0.	.0	3161.0	1	0825	102	385.	2009.6	3212.5	1	1645	202	178.	1891.4	3210.7
1	0010	3	0.	.0	3161.0	1	0830	103	318.	2008.7	3212.5	1	1650	203	178.	1890.2	3210.7
1	0015	4	0.	.0	3161.0	1	0835	104	263.	2008.0	3212.5	1	1655	204	178.	1889.0	3210.7
1	0020	5	0.	.0	3161.0	1	0840	105	217.	2007.4	3212.5	1	1700	205	178.	1887.7	3210.6
1	0025	6	0.	.0	3161.0	1	0845	106	182.	2006.9	3212.5	1	1705	206	178.	1886.5	3210.6
1	0030	7	0.	.2	3161.0	1	0850	107	182.	2006.4	3212.5	1	1710	207	178.	1885.3	3210.6
1	0035	8	0.	.4	3161.0	1	0855	108	182.	2005.7	3212.5	1	1715	208	178.	1884.0	3210.6
1	0040	9	1.	.8	3161.1	1	0900	109	182.	2005.0	3212.5	1	1720	209	178.	1882.8	3210.6
1	0045	10	1.	1.1	3161.1	1	0905	110	182.	2004.1	3212.5	1	1725	210	178.	1881.6	3210.5
1	0050	11	2.	1.5	3161.2	1	0910	111	182.	2003.2	3212.4	1	1730	211	178.	1880.4	3210.5
1	0055	12	2.	1.9	3161.2	1	0915	112	182.	2002.2	3212.4	1	1735	212	178.	1879.1	3210.5
1	0100	13	3.	2.3	3161.3	1	0920	113	182.	2001.1	3212.4	1	1740	213	178.	1877.9	3210.5
1	0105	14	3.	2.7	3161.3	1	0925	114	182.	2000.0	3212.4	1	1745	214	178.	1876.7	3210.5
1	0110	15	4.	3.3	3161.4	1	0930	115	182.	1998.9	3212.4	1	1750	215	178.	1875.5	3210.4
1	0115	16	4.	4.0	3161.4	1	0935	116	182.	1997.8	3212.4	1	1755	216	178.	1874.2	3210.4
1	0120	17	6.	5.0	3161.6	1	0940	117	182.	1996.6	3212.3	1	1800	217	178.	1873.0	3210.4
1	0125	18	7.	6.1	3161.7	1	0945	118	182.	1995.4	3212.3	1	1805	218	178.	1871.8	3210.4
1	0130	19	8.	7.6	3161.8	1	0950	119	182.	1994.2	3212.3	1	1810	219	178.	1870.6	3210.4
1	0135	20	10.	9.5	3162.0	1	0955	120	182.	1993.0	3212.3	1	1815	220	178.	1869.3	3210.3
1	0140	21	11.	11.9	3162.1	1	1000	121	182.	1991.7	3212.3	1	1820	221	178.	1868.1	3210.3
1	0145	22	13.	14.8	3162.3	1	1005	122	182.	1990.5	3212.3	1	1825	222	178.	1866.9	3210.3
1	0150	23	14.	18.3	3162.5	1	1010	123	181.	1989.3	3212.2	1	1830	223	178.	1865.7	3210.3

1	0155	24	16.	22.2	3162.7	*	1	1015	124	181.	1988.0	3212.2	*	1	1835	224	178.	1864.4	3210.3
1	0200	25	18.	26.6	3162.9	*	1	1020	125	181.	1986.8	3212.2	*	1	1840	225	177.	1863.2	3210.2
1	0205	26	21.	31.6	3163.2	*	1	1025	126	181.	1985.5	3212.2	*	1	1845	226	177.	1862.0	3210.2
1	0210	27	24.	37.3	3163.4	*	1	1030	127	181.	1984.3	3212.2	*	1	1850	227	177.	1860.8	3210.2
1	0215	28	27.	43.6	3163.8	*	1	1035	128	181.	1983.1	3212.1	*	1	1855	228	177.	1859.6	3210.2
1	0220	29	30.	50.8	3164.1	*	1	1040	129	181.	1981.8	3212.1	*	1	1900	229	177.	1858.3	3210.2
1	0225	30	34.	58.8	3164.5	*	1	1045	130	181.	1980.6	3212.1	*	1	1905	230	177.	1857.1	3210.1
1	0230	31	38.	67.6	3165.0	*	1	1050	131	181.	1979.3	3212.1	*	1	1910	231	177.	1855.9	3210.1
1	0235	32	43.	77.4	3165.5	*	1	1055	132	181.	1978.1	3212.1	*	1	1915	232	177.	1854.7	3210.1
1	0240	33	48.	88.0	3166.0	*	1	1100	133	181.	1976.8	3212.0	*	1	1920	233	177.	1853.5	3210.1
1	0245	34	53.	99.7	3166.6	*	1	1105	134	181.	1975.6	3212.0	*	1	1925	234	177.	1852.2	3210.1
1	0250	35	58.	112.5	3167.2	*	1	1110	135	181.	1974.3	3212.0	*	1	1930	235	177.	1851.0	3210.0
1	0255	36	61.	126.7	3167.8	*	1	1115	136	181.	1973.1	3212.0	*	1	1935	236	177.	1849.8	3210.0
1	0300	37	63.	142.0	3168.4	*	1	1120	137	181.	1971.8	3212.0	*	1	1940	237	177.	1848.6	3210.0
1	0305	38	67.	158.8	3169.1	*	1	1125	138	181.	1970.6	3211.9	*	1	1945	238	177.	1847.4	3210.0
1	0310	39	70.	177.3	3169.8	*	1	1130	139	181.	1969.3	3211.9	*	1	1950	239	177.	1846.1	3210.0
1	0315	40	74.	198.0	3170.7	*	1	1135	140	181.	1968.1	3211.9	*	1	1955	240	177.	1844.9	3210.0
1	0320	41	78.	221.7	3171.6	*	1	1140	141	181.	1966.9	3211.9	*	1	2000	241	177.	1843.7	3209.9
1	0325	42	82.	249.5	3172.7	*	1	1145	142	181.	1965.6	3211.9	*	1	2005	242	177.	1842.5	3209.9
1	0330	43	87.	282.9	3173.8	*	1	1150	143	181.	1964.4	3211.8	*	1	2010	243	177.	1841.3	3209.9
1	0335	44	92.	322.7	3175.3	*	1	1155	144	181.	1963.1	3211.8	*	1	2015	244	177.	1840.0	3209.9
1	0340	45	98.	368.2	3176.9	*	1	1200	145	181.	1961.9	3211.8	*	1	2020	245	177.	1838.8	3209.9
1	0345	46	103.	417.8	3178.5	*	1	1205	146	181.	1960.6	3211.8	*	1	2025	246	177.	1837.6	3209.8
1	0350	47	109.	471.6	3180.2	*	1	1210	147	181.	1959.4	3211.8	*	1	2030	247	177.	1836.4	3209.8
1	0355	48	114.	531.0	3182.1	*	1	1215	148	180.	1958.1	3211.7	*	1	2035	248	177.	1835.2	3209.8
1	0400	49	119.	597.5	3183.9	*	1	1220	149	180.	1956.9	3211.7	*	1	2040	249	177.	1834.0	3209.8
1	0405	50	125.	672.0	3186.1	*	1	1225	150	180.	1955.7	3211.7	*	1	2045	250	177.	1832.8	3209.8
1	0410	51	131.	755.3	3188.3	*	1	1230	151	180.	1954.4	3211.7	*	1	2050	251	176.	1831.5	3209.7
1	0415	52	137.	848.0	3190.6	*	1	1235	152	180.	1953.2	3211.7	*	1	2055	252	176.	1830.3	3209.7
1	0420	53	142.	950.8	3193.1	*	1	1240	153	180.	1951.9	3211.6	*	1	2100	253	176.	1829.1	3209.7
1	0425	54	148.	1064.4	3195.6	*	1	1245	154	180.	1950.7	3211.6	*	1	2105	254	176.	1827.9	3209.7
1	0430	55	154.	1189.1	3198.3	*	1	1250	155	180.	1949.4	3211.6	*	1	2110	255	176.	1826.7	3209.7
1	0435	56	160.	1325.2	3201.0	*	1	1255	156	180.	1948.2	3211.6	*	1	2115	256	176.	1825.5	3209.6
1	0440	57	165.	1472.4	3203.7	*	1	1300	157	180.	1947.0	3211.6	*	1	2120	257	176.	1824.2	3209.6
1	0445	58	170.	1629.2	3206.5	*	1	1305	158	180.	1945.7	3211.6	*	1	2125	258	176.	1823.0	3209.6
1	0450	59	175.	1793.4	3209.1	*	1	1310	159	180.	1944.5	3211.5	*	1	2130	259	176.	1821.8	3209.6
1	0455	60	181.	1962.7	3211.8	*	1	1315	160	180.	1943.2	3211.5	*	1	2135	260	176.	1820.6	3209.6
1	0500	61	8025.	2107.0	3213.9	*	1	1320	161	180.	1942.0	3211.5	*	1	2140	261	176.	1819.4	3209.5
1	0505	62	17326.	2191.1	3215.1	*	1	1325	162	180.	1940.8	3211.5	*	1	2145	262	176.	1818.2	3209.5
1	0510	63	21271.	2225.7	3215.5	*	1	1330	163	180.	1939.5	3211.5	*	1	2150	263	176.	1817.0	3209.5
1	0515	64	22509.	2236.6	3215.7	*	1	1335	164	180.	1938.3	3211.4	*	1	2155	264	176.	1815.8	3209.5
1	0520	65	22455.	2236.1	3215.7	*	1	1340	165	180.	1937.0	3211.4	*	1	2200	265	176.	1814.5	3209.5
1	0525	66	21772.	2230.1	3215.6	*	1	1345	166	180.	1935.8	3211.4	*	1	2205	266	176.	1813.3	3209.4
1	0530	67	20794.	2221.5	3215.5	*	1	1350	167	180.	1934.6	3211.4	*	1	2210	267	176.	1812.1	3209.4
1	0535	68	19704.	2212.0	3215.3	*	1	1355	168	180.	1933.3	3211.4	*	1	2215	268	176.	1810.9	3209.4
1	0540	69	18606.	2202.3	3215.2	*	1	1400	169	180.	1932.1	3211.3	*	1	2220	269	176.	1809.7	3209.4
1	0545	70	17562.	2193.2	3215.1	*	1	1405	170	180.	1930.9	3211.3	*	1	2225	270	176.	1808.5	3209.4
1	0550	71	16604.	2184.8	3215.0	*	1	1410	171	180.	1929.6	3211.3	*	1	2230	271	176.	1807.3	3209.4
1	0555	72	15738.	2177.2	3214.9	*	1	1415	172	180.	1928.4	3211.3	*	1	2235	272	176.	1806.1	3209.3
1	0600	73	14944.	2170.2	3214.8	*	1	1420	173	180.	1927.2	3211.3	*	1	2240	273	176.	1804.9	3209.3
1	0605	74	14191.	2163.6	3214.7	*	1	1425	174	179.	1925.9	3211.2	*	1	2245	274	176.	1803.7	3209.3
1	0610	75	13447.	2157.1	3214.6	*	1	1430	175	179.	1924.7	3211.2	*	1	2250	275	176.	1802.4	3209.3
1	0615	76	12686.	2150.4	3214.5	*	1	1435	176	179.	1923.4	3211.2	*	1	2255	276	176.	1801.2	3209.3
1	0620	77	11890.	2143.4	3214.4	*	1	1440	177	179.	1922.2	3211.2	*	1	2300	277	175.	1800.0	3209.2
1	0625	78	11055.	2136.1	3214.3	*	1	1445	178	179.	1921.0	3211.2	*	1	2305	278	175.	1798.8	3209.2
1	0630	79	10185.	2128.4	3214.2	*	1	1450	179	179.	1919.7	3211.1	*	1	2310	279	175.	1797.6	3209.2
1	0635	80	9295.	2120.6	3214.1	*	1	1455	180	179.	1918.5	3211.1	*	1	2315	280	175.	1796.4	3209.2
1	0640	81	8465.	2112.6	3214.0	*	1	1500	181	179.	1917.3	3211.1	*	1	2320	281	175.	1795.2	3209.2
1	0645	82	7781.	2103.9	3213.8	*	1	1505	182	179.	1916.0	3211.1	*	1	2325	282	175.	1794.0	3209.1
1	0650	83	7047.	2094.5	3213.7	*	1	1510	183	179.	1914.8	3211.1	*	1	2330	283	175.	1792.8	3209.1
1	0655	84	6313.	2085.2	3213.6	*	1	1515	184	179.	1913.6	3211.0	*	1	2335	284	175.	1791.6	3209.1
1	0700	85	5608.	2076.2	3213.5	*	1	1520	185	179.	1912.3	3211.0	*	1	2340	285	175.	1790.4	3209.1
1	0705	86	4951.	2067.8	3213.3	*	1	1525	186	179.	1911.1	3211.0	*	1	2345	286	175.	1789.2	3209.1
1	0710	87	4348.	2060.1	3213.2	*	1	1530	187	179.	1909.9	3211.0	*	1	2350	287	175.	1788.0	3209.0
1	0715	88	3803.	2053.2	3213.1	*	1	1535	188	179.	1908.6	3211.0	*	1	2355	288	175.	1786.7	3209.0
1	0720	89	3315.	2046.9	3213.1	*	1	1540	189	179.	1907.4	3210.9	*	2	0000	289	175.	1785.5	3209.0
1	0725	90	2879.	2041.4	3213.0	*	1	1545	190	179.	1906.2	3210.9	*	2	0005	290	175.	1784.3	3209.0
1	0730	91	2491.	2036.4	3212.9	*	1	1550	191	179.	1904.9	3210.9	*	2	0010	291	175.	1783.1	3209.0
1	0735	92	2147.	2032.1	3212.8	*	1	1555	192	179.	1903.7	3210.9	*	2	0015	292	175.	1781.9	3209.0
1	0740	93	1843.	2028.2	3212.8	*	1	1600	193	179.	1902.5	3210.9	*	2	0020	293	175.	1780.7	3208.9
1	0745	94	1575.	2024.8	3212.7	*	1	1605	194	179.	1901.2	3210.8	*	2	0025	294	175.	1779.5	3208.9
1	0750	95	1339.	2021.8	3212.7	*	1	1610	195	179.	1900.0	3210.8	*	2	0030	295	175.	1778.3	3208.9
1	0755	96	1134.	2019.1	3212.7	*	1	1615	196	179.	1898.8	3210.8	*	2	0035	296	175.	1777.1	3208.9
1	0800	97	956.	2016.9	3212.6	*	1	1620	197	179.	1897.6	3210.8	*	2	0040	297	175.	1775.9	3208.9
1	0805	98	802.	2014.9	3212.6	*	1	1625	198	179.	1896.3	3210.8	*	2	0045	298	175.	1774.7	3208.8
1	0810	99	671.	2013.2	3212.6	*	1	1630	199	178.	1895.1	3210.7	*	2	0050	299	175.	1773.5	3208.8
1	0815	100	559.	2011.8	3212.6	*	1	1635	200	178.	1893.9	3210.7	*	2	0055	300	175.	1772.3	3208.8

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
	(CFS)				
+ 22509.	5.25	5481.	1486.	1431.	1431.
	(INCHES)	.931	1.009	1.009	1.009
	(AC-FT)	2718.	2946.	2946.	2946.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
2237.	5.25	2061.	1670.	1609.	1609.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3215.69	5.25	3213.25	3205.06	3203.44	3203.44

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .87

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE		DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE		DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	3161.0	*	1		0820	101	458.	2010.5	3212.5	*	1		1640	201	178.	1892.5	3210.7
1		0005	2	0.	.0	3161.0	*	1		0825	102	379.	2009.5	3212.5	*	1		1645	202	178.	1891.3	3210.7
1		0010	3	0.	.0	3161.0	*	1		0830	103	314.	2008.7	3212.5	*	1		1650	203	178.	1890.1	3210.7
1		0015	4	0.	.0	3161.0	*	1		0835	104	259.	2008.0	3212.5	*	1		1655	204	178.	1888.9	3210.6
1		0020	5	0.	.0	3161.0	*	1		0840	105	214.	2007.4	3212.5	*	1		1700	205	178.	1887.6	3210.6
1		0025	6	0.	.0	3161.0	*	1		0845	106	182.	2006.9	3212.5	*	1		1705	206	178.	1886.4	3210.6
1		0030	7	0.	.2	3161.0	*	1		0850	107	182.	2006.4	3212.5	*	1		1710	207	178.	1885.2	3210.6
1		0035	8	0.	.4	3161.0	*	1		0855	108	182.	2005.7	3212.5	*	1		1715	208	178.	1884.0	3210.6
1		0040	9	1.	.7	3161.1	*	1		0900	109	182.	2004.9	3212.5	*	1		1720	209	178.	1882.7	3210.6
1		0045	10	1.	1.1	3161.1	*	1		0905	110	182.	2004.0	3212.5	*	1		1725	210	178.	1881.5	3210.5
1		0050	11	2.	1.4	3161.2	*	1		0910	111	182.	2003.1	3212.4	*	1		1730	211	178.	1880.3	3210.5
1		0055	12	2.	1.8	3161.2	*	1		0915	112	182.	2002.1	3212.4	*	1		1735	212	178.	1879.0	3210.5
1		0100	13	2.	2.1	3161.2	*	1		0920	113	182.	2001.1	3212.4	*	1		1740	213	178.	1877.8	3210.5
1		0105	14	3.	2.6	3161.3	*	1		0925	114	182.	2000.0	3212.4	*	1		1745	214	178.	1876.6	3210.5
1		0110	15	3.	3.1	3161.3	*	1		0930	115	182.	1998.8	3212.4	*	1		1750	215	178.	1875.4	3210.4
1		0115	16	4.	3.8	3161.4	*	1		0935	116	182.	1997.7	3212.4	*	1		1755	216	178.	1874.1	3210.4
1		0120	17	5.	4.7	3161.5	*	1		0940	117	182.	1996.5	3212.3	*	1		1800	217	178.	1872.9	3210.4
1		0125	18	6.	5.8	3161.6	*	1		0945	118	182.	1995.3	3212.3	*	1		1805	218	178.	1871.7	3210.4
1		0130	19	8.	7.2	3161.8	*	1		0950	119	182.	1994.1	3212.3	*	1		1810	219	178.	1870.5	3210.4
1		0135	20	10.	9.0	3162.0	*	1		0955	120	182.	1992.9	3212.3	*	1		1815	220	178.	1869.3	3210.3
1		0140	21	11.	11.2	3162.1	*	1		1000	121	182.	1991.6	3212.3	*	1		1820	221	178.	1868.0	3210.3
1		0145	22	12.	14.0	3162.3	*	1		1005	122	181.	1990.4	3212.2	*	1		1825	222	178.	1866.8	3210.3
1		0150	23	14.	17.2	3162.4	*	1		1010	123	181.	1989.2	3212.2	*	1		1830	223	178.	1865.6	3210.3
1		0155	24	16.	21.0	3162.6	*	1		1015	124	181.	1987.9	3212.2	*	1		1835	224	178.	1864.4	3210.3
1		0200	25	18.	25.2	3162.8	*	1		1020	125	181.	1986.7	3212.2	*	1		1840	225	177.	1863.1	3210.2
1		0205	26	20.	30.0	3163.1	*	1		1025	126	181.	1985.5	3212.2	*	1		1845	226	177.	1861.9	3210.2
1		0210	27	23.	35.4	3163.3	*	1		1030	127	181.	1984.2	3212.2	*	1		1850	227	177.	1860.7	3210.2
1		0215	28	26.	41.4	3163.7	*	1		1035	128	181.	1983.0	3212.1	*	1		1855	228	177.	1859.5	3210.2
1		0220	29	29.	48.3	3164.0	*	1		1040	129	181.	1981.7	3212.1	*	1		1900	229	177.	1858.2	3210.2
1		0225	30	33.	56.0	3164.4	*	1		1045	130	181.	1980.5	3212.1	*	1		1905	230	177.	1857.0	3210.1
1		0230	31	37.	64.5	3164.8	*	1		1050	131	181.	1979.2	3212.1	*	1		1910	231	177.	1855.8	3210.1
1		0235	32	41.	73.9	3165.3	*	1		1055	132	181.	1978.0	3212.1	*	1		1915	232	177.	1854.6	3210.1
1		0240	33	46.	84.2	3165.8	*	1		1100	133	181.	1976.7	3212.0	*	1		1920	233	177.	1853.4	3210.1
1		0245	34	51.	95.5	3166.4	*	1		1105	134	181.	1975.5	3212.0	*	1		1925	234	177.	1852.1	3210.1
1		0250	35	57.	107.9	3167.0	*	1		1110	135	181.	1974.2	3212.0	*	1		1930	235	177.	1850.9	3210.0
1		0255	36	60.	121.6	3167.6	*	1		1115	136	181.	1973.0	3212.0	*	1		1935	236	177.	1849.7	3210.0
1		0300	37	62.	136.5	3168.2	*	1		1120	137	181.	1971.7	3212.0	*	1		1940	237	177.	1848.5	3210.0
1		0305	38	65.	152.8	3168.8	*	1		1125	138	181.	1970.5	3211.9	*	1		1945	238	177.	1847.3	3210.0
1		0310	39	69.	170.8	3169.6	*	1		1130	139	181.	1969.3	3211.9	*	1		1950	239	177.	1846.0	3210.0
1		0315	40	73.	190.9	3170.4	*	1		1135	140	181.	1968.0	3211.9	*	1		1955	240	177.	1844.8	3209.9
1		0320	41	77.	214.0	3171.3	*	1		1140	141	181.	1966.8	3211.9	*	1		2000	241	177.	1843.6	3209.9
1		0325	42	81.	241.1	3172.4	*	1		1145	142	181.	1965.5	3211.9	*	1		2005	242	177.	1842.4	3209.9
1		0330	43	86.	273.7	3173.5	*	1		1150	143	181.	1964.3	3211.8	*	1		2010	243	177.	1841.2	3209.9
1		0335	44	91.	312.6	3174.9	*	1		1155	144	181.	1963.0	3211.8	*	1		2015	244	177.	1840.0	3209.9
1		0340	45	97.	357.1	3176.5	*	1		1200	145	181.	1961.8	3211.8	*	1		2020	245	177.	1838.7	3209.9
1		0345	46	102.	405.5	3178.1	*	1		1205	146	181.	1960.5	3211.8	*	1		2025	246	177.	1837.5	3209.8
1		0350	47	107.	458.1	3179.7	*	1		1210	147	181.	1959.3	3211.8	*	1		2030	247	177.	1836.3	3209.8
1		0355	48	113.	516.3	3181.6	*	1		1215	148	180.	1958.1	3211.7	*	1		2035	248	177.	1835.1	3209.8
1		0400	49	118.	581.5	3183.5	*	1		1220	149	180.	1956.8	3211.7	*	1		2040	249	177.	1833.9	3209.8
1		0405	50	124.	654.6	3185.6	*	1		1225	150	180.	1955.6	3211.7	*	1		2045	250	177.	1832.7	3209.8
1		0410	51	130.	736.3	3187.8	*	1		1230	151	180.	1954.3	3211.7	*	1		2050	251	176.	1831.4	3209.7
1		0415	52	135.	827.3	3190.1	*	1		1235	152	180.	1953.1	3211.7	*	1		2055	252	176.	1830.2	3209.7
1		0420	53	141.	928.2	3192.6	*	1		1240	153	180.	1951.8	3211.6	*	1		2100	253	176.	1829.0	3209.7
1		0425	54	147.	1039.6	3195.1	*	1		1245	154	180.	1950.6	3211.6	*	1		2105	254	176.	1827.8	3209.7
1		0430	55	153.	1162.1	3197.7	*	1		1250	155	180.	1949.4	3211.6	*	1		2110	255	176.	1826.6	3209.7
1		0435	56	158.	1295.8	3200.4	*	1		1255	156	180.	1948.1	3211.6	*	1		2115	256	176.	1825.4	3209.6
1		0440	57	164.	1440.4	3203.1	*	1		1300	157	180.	1946.9	3211.6	*	1		2120	257	176.	1824.2	3209.6
1		0445	58	169.	1594.4	3205.9	*	1		1305	158	180.	1945.6	3211.5	*	1		2125	258	176.	1822.9	3209.6
1		0450	59	174.	1755.9	3208.5	*	1		1310	159	180.	1944.4	3211.5	*	1		2130	259	176.	1821.7	3209.6
1		0455	60	179.	1922.3	3211.2	*	1		1315	160	180.	1943.2	3211.5	*	1		2135	260	176.	1820.5	3209.6
1		0500	61	5355.	2072.9	3213.4	*	1		1320	161	180.	1941.9	3211.5	*	1		2140	261	176.	1819.3	3209.5
1		0505	62	15062.	2171.2	3214.8	*	1		1325	162	180.	1940.7	3211.5	*	1		2145	262	176.	1818.1	3209.5
1		0510	63	20060.	2215.1	3215.4	*	1		1330	163	180.	1939.4	3211.5	*	1		2150	263	176.	1816.9	3209.5
1		0515	64	21768.	2230.1	3215.6	*	1		1335	164	180.	1938.2	3211.4	*	1		2155	264	176.	1815.7	3209.5
1		0520	65	21929.	2231.5	3215.6	*	1		1340	165	180.	1937.0	3211.4	*	1		2200	265	176.	1814.5	3209.5
1		0525	66	21352.	2226.4	3215.5	*	1		1345	166	180.	1935.7	3211.4	*	1		2205	266	176.	1813.2	3209.4
1		0530	67	20433.	2218.4	3215.4	*	1		1350	167	180.	1934.5	3211.4	*	1		2210	267	176.	1812.0	3209.4
1		0535	68	19380.	2209.1	3215.3	*	1		1355	168	180.	1933.2	3211.4	*	1		2215	268	176.	1810.8	3209.4
1		0540	69	18309.	2199.7	3215.2	*	1		1400	169	180.	1932.0	3211.3	*	1		2220	269	176.	1809.6	3209.4
1		0545	70	17287.	2190.8	3215.1	*	1		1405	170	180.	1930.8	3211.3	*	1		2225	270	176.	1808.4	3209.4
1		0550	71	16348.	2182.5	3214.9	*	1		1410	171	180.	1929.5	3211.3	*	1		2230	271	176.	1807.2	3209.4
1		0555	72	15498.	2175.1	3214.8	*	1		1415	172	180.	1928.3	3211.3	*	1		2235	272	176.	1806.0	3209.3
1		0600	73	14718.	2168.2	3214.7	*	1		1420	173	180.	1927.1	3211.3	*	1		2240	273	176.	1804.8	3209.3
1		0605	74	13978.	2161.7	3214.6	*	1		1425	174	179.	1925.8	3211.2	*	1		2245	274	176.	1803.6	3209.3
1		0610	75	13246.	2155.3	3214.6	*	1		1430	175	179.	1924.6	3211.2	*	1		2250	275	176.	1802.4	3209.3
1	

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE		DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE		DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000	1	0.	.0	3161.0	*	1	0820	101	453.	2010.4	3212.5	*	1	1640	201	178.	1892.5	3210.7
1	0005	2	0.	.0	3161.0	*	1	0825	102	375.	2009.5	3212.5	*	1	1645	202	178.	1891.2	3210.7
1	0010	3	0.	.0	3161.0	*	1	0830	103	310.	2008.6	3212.5	*	1	1650	203	178.	1890.0	3210.7
1	0015	4	0.	.0	3161.0	*	1	0835	104	256.	2007.9	3212.5	*	1	1655	204	178.	1888.8	3210.6
1	0020	5	0.	.0	3161.0	*	1	0840	105	211.	2007.4	3212.5	*	1	1700	205	178.	1887.6	3210.6
1	0025	6	0.	.0	3161.0	*	1	0845	106	182.	2006.9	3212.5	*	1	1705	206	178.	1886.3	3210.6
1	0030	7	0.	.1	3161.0	*	1	0850	107	182.	2006.3	3212.5	*	1	1710	207	178.	1885.1	3210.6
1	0035	8	0.	.4	3161.0	*	1	0855	108	182.	2005.6	3212.5	*	1	1715	208	178.	1883.9	3210.6
1	0040	9	1.	.7	3161.1	*	1	0900	109	182.	2004.9	3212.5	*	1	1720	209	178.	1882.7	3210.6
1	0045	10	1.	1.0	3161.1	*	1	0905	110	182.	2004.0	3212.5	*	1	1725	210	178.	1881.4	3210.5
1	0050	11	2.	1.4	3161.2	*	1	0910	111	182.	2003.0	3212.4	*	1	1730	211	178.	1880.2	3210.5
1	0055	12	2.	1.7	3161.2	*	1	0915	112	182.	2002.0	3212.4	*	1	1735	212	178.	1879.0	3210.5
1	0100	13	2.	2.1	3161.2	*	1	0920	113	182.	2001.0	3212.4	*	1	1740	213	178.	1877.8	3210.5
1	0105	14	3.	2.5	3161.3	*	1	0925	114	182.	1999.9	3212.4	*	1	1745	214	178.	1876.5	3210.5
1	0110	15	3.	3.0	3161.3	*	1	0930	115	182.	1998.8	3212.4	*	1	1750	215	178.	1875.3	3210.4
1	0115	16	4.	3.6	3161.4	*	1	0935	116	182.	1997.6	3212.4	*	1	1755	216	178.	1874.1	3210.4
1	0120	17	5.	4.4	3161.5	*	1	0940	117	182.	1996.4	3212.3	*	1	1800	217	178.	1872.9	3210.4
1	0125	18	6.	5.5	3161.6	*	1	0945	118	182.	1995.2	3212.3	*	1	1805	218	178.	1871.6	3210.4
1	0130	19	8.	6.8	3161.8	*	1	0950	119	182.	1994.0	3212.3	*	1	1810	219	178.	1870.4	3210.4
1	0135	20	9.	8.5	3161.9	*	1	0955	120	182.	1992.8	3212.3	*	1	1815	220	178.	1869.2	3210.3
1	0140	21	11.	10.7	3162.1	*	1	1000	121	182.	1991.6	3212.3	*	1	1820	221	178.	1868.0	3210.3
1	0145	22	12.	13.3	3162.2	*	1	1005	122	181.	1990.3	3212.2	*	1	1825	222	178.	1866.7	3210.3
1	0150	23	14.	16.4	3162.4	*	1	1010	123	181.	1989.1	3212.2	*	1	1830	223	178.	1865.5	3210.3
1	0155	24	15.	20.0	3162.6	*	1	1015	124	181.	1987.9	3212.2	*	1	1835	224	178.	1864.3	3210.3
1	0200	25	17.	24.1	3162.8	*	1	1020	125	181.	1986.6	3212.2	*	1	1840	225	177.	1863.1	3210.2
1	0205	26	19.	28.7	3163.0	*	1	1025	126	181.	1985.4	3212.2	*	1	1845	226	177.	1861.8	3210.2
1	0210	27	22.	33.8	3163.3	*	1	1030	127	181.	1984.1	3212.2	*	1	1850	227	177.	1860.6	3210.2
1	0215	28	25.	39.7	3163.6	*	1	1035	128	181.	1982.9	3212.1	*	1	1855	228	177.	1859.4	3210.2
1	0220	29	28.	46.3	3163.9	*	1	1040	129	181.	1981.6	3212.1	*	1	1900	229	177.	1858.2	3210.2
1	0225	30	31.	53.8	3164.3	*	1	1045	130	181.	1980.4	3212.1	*	1	1905	230	177.	1857.0	3210.1
1	0230	31	35.	62.0	3164.7	*	1	1050	131	181.	1979.1	3212.1	*	1	1910	231	177.	1855.7	3210.1
1	0235	32	40.	71.2	3165.2	*	1	1055	132	181.	1977.9	3212.1	*	1	1915	232	177.	1854.5	3210.1
1	0240	33	45.	81.2	3165.7	*	1	1100	133	181.	1976.7	3212.0	*	1	1920	233	177.	1853.3	3210.1
1	0245	34	50.	92.2	3166.2	*	1	1105	134	181.	1975.4	3212.0	*	1	1925	234	177.	1852.1	3210.1
1	0250	35	56.	104.3	3166.9	*	1	1110	135	181.	1974.2	3212.0	*	1	1930	235	177.	1850.9	3210.0
1	0255	36	59.	117.6	3167.4	*	1	1115	136	181.	1972.9	3212.0	*	1	1935	236	177.	1849.6	3210.0
1	0300	37	62.	132.2	3168.0	*	1	1120	137	181.	1971.7	3212.0	*	1	1940	237	177.	1848.4	3210.0
1	0305	38	65.	148.1	3168.7	*	1	1125	138	181.	1970.4	3211.9	*	1	1945	238	177.	1847.2	3210.0
1	0310	39	68.	165.6	3169.4	*	1	1130	139	181.	1969.2	3211.9	*	1	1950	239	177.	1846.0	3210.0
1	0315	40	72.	185.3	3170.2	*	1	1135	140	181.	1967.9	3211.9	*	1	1955	240	177.	1844.8	3209.9
1	0320	41	76.	207.9	3171.1	*	1	1140	141	181.	1966.7	3211.9	*	1	2000	241	177.	1843.5	3209.9
1	0325	42	80.	234.5	3172.1	*	1	1145	142	181.	1965.4	3211.9	*	1	2005	242	177.	1842.3	3209.9
1	0330	43	85.	266.5	3173.3	*	1	1150	143	181.	1964.2	3211.8	*	1	2010	243	177.	1841.1	3209.9
1	0335	44	90.	304.7	3174.6	*	1	1155	144	181.	1963.0	3211.8	*	1	2015	244	177.	1839.9	3209.9
1	0340	45	96.	348.5	3176.2	*	1	1200	145	181.	1961.7	3211.8	*	1	2020	245	177.	1838.7	3209.9
1	0345	46	101.	396.2	3177.8	*	1	1205	146	181.	1960.5	3211.8	*	1	2025	246	177.	1837.5	3209.8
1	0350	47	106.	447.9	3179.4	*	1	1210	147	181.	1959.2	3211.8	*	1	2030	247	177.	1836.2	3209.8
1	0355	48	112.	505.2	3181.2	*	1	1215	148	180.	1958.0	3211.7	*	1	2035	248	177.	1835.0	3209.8
1	0400	49	117.	569.3	3183.1	*	1	1220	149	180.	1956.7	3211.7	*	1	2040	249	177.	1833.8	3209.8
1	0405	50	123.	641.3	3185.2	*	1	1225	150	180.	1955.5	3211.7	*	1	2045	250	177.	1832.6	3209.8
1	0410	51	129.	721.7	3187.4	*	1	1230	151	180.	1954.3	3211.7	*	1	2050	251	176.	1831.4	3209.7
1	0415	52	134.	811.2	3189.7	*	1	1235	152	180.	1953.0	3211.7	*	1	2055	252	176.	1830.2	3209.7
1	0420	53	140.	910.6	3192.2	*	1	1240	153	180.	1951.8	3211.6	*	1	2100	253	176.	1828.9	3209.7
1	0425	54	146.	1020.4	3194.6	*	1	1245	154	180.	1950.5	3211.6	*	1	2105	254	176.	1827.7	3209.7
1	0430	55	152.	1141.1	3197.3	*	1	1250	155	180.	1949.3	3211.6	*	1	2110	255	176.	1826.5	3209.7
1	0435	56	157.	1272.9	3199.9	*	1	1255	156	180.	1948.0	3211.6	*	1	2115	256	176.	1825.3	3209.6
1	0440	57	163.	1415.4	3202.7	*	1	1300	157	180.	1946.8	3211.6	*	1	2120	257	176.	1824.1	3209.6
1	0445	58	168.	1567.3	3205.4	*	1	1305	158	180.	1945.6	3211.5	*	1	2125	258	176.	1822.9	3209.6
1	0450	59	173.	1726.5	3208.1	*	1	1310	159	180.	1944.3	3211.5	*	1	2130	259	176.	1821.7	3209.6
1	0455	60	178.	1890.7	3210.7	*	1	1315	160	180.	1943.1	3211.5	*	1	2135	260	176.	1820.4	3209.6
1	0500	61	3259.	2046.2	3213.0	*	1	1320	161	180.	1941.8	3211.5	*	1	2140	261	176.	1819.2	3209.5
1	0505	62	13280.	2155.6	3214.6	*	1	1325	162	180.	1940.6	3211.5	*	1	2145	262	176.	1818.0	3209.5
1	0510	63	19102.	2206.7	3215.3	*	1	1330	163	180.	1939.4	3211.5	*	1	2150	263	176.	1816.8	3209.5
1	0515	64	21178.	2224.9	3215.5	*	1	1335	164	180.	1938.1	3211.4	*	1	2155	264	176.	1815.6	3209.5
1	0520	65	21510.	2227.8	3215.6	*	1	1340	165	180.	1936.9	3211.4	*	1	2200	265	176.	1814.4	3209.5
1	0525	66	21016.	2223.5	3215.5	*	1	1345	166	180.	1935.6	3211.4	*	1	2205	266	176.	1813.2	3209.4
1	0530	67	20143.	2215.8	3215.4	*	1	1350	167	180.	1934.4	3211.4	*	1	2210	267	176.	1812.0	3209.4
1	0535	68	19121.	2206.8	3215.3	*	1	1355	168	180.	1933.2	3211.4	*	1	2215	268	176.	1810.8	3209.4
1	0540	69	18073.	2197.6	3215.1	*	1	1400	169	180.	1931.9	3211.3	*	1	2220	269	176.	1809.5	3209.4
1	0545	70	17068.	2188.8	3215.0	*	1	1405	170	180.	1930.7	3211.3	*	1	2225	270	176.	1808.3	3209.4
1	0550	71	16144.	2180.7	3214.9	*	1	1410	171	180.	1929.5	3211.3	*	1	2230	271	176.	1807.1	3209.4
1	0555	72	15306.	2173.4	3214.8	*	1	1415	172	180.	1928.2	3211.3	*	1	2235	272	176.	1805.9	3209.3
1	0600	73	14537.	2166.6	3214.7	*	1	1420	173	180.	1927.0	3211.3	*	1	2240	273	176.	1804.7	3209.3
1	0605	74	13807.	2160.2	3214.6	*	1	1425	174	179.	1925.8	3211.2	*	1	2245	274	176.	1803.5	3209.3
1	0610	75	13086.	2153.9	3214.5	*	1	1430	175	179.	1924.5	3211.2	*	1	2250	275	176.	1802.3	3209.3
1	0615	76	12348.	2147.4	3214.5	*	1	1435	176	179.	1923.3	3211.2	*	1	2255	276	176.	1801.1	3209.3
1	0620	77	11575.	2140.6	3214.4	*	1	1440	177	179.	1922.0	3211.2	*	1	2300	277	175.	1799.9	3209.2
1	0625	78	10763.	2133.5	3214.3	*	1	1445	178	179.	1920.8	3211.2	*	1	2305	278	175.	1798.7	3209.2
1	0630	79	9917.	2126.1	3214.2	*	1	1450	179	179.	1919.6	3211.1	*	1	2310	279	175.	1797.4	3209.2
1	0635	80	9051.	2118.5	3214.0	*	1	1455	180	179.	1918.3	3211.1	*	1	2315	280	175.	1796.2	3209.2
1	0640	81	8299.	2110.5	3213.9	*	1	1500	181	179.	1917.1	3211.1	*	1	2320	281	175.	1795.0	3209.2
1	0645	82	7610.	2101.7	3213.8	*	1	1505	182	179.	1915.9	3211.1	*	1	2325	282	175.	1793.8	3209.1
1	0650	83	6882.	2092.4	3213.7	*	1	1510	183	179.	1914.6	3211.1	*	1	2330	283	175.	1792.6	3209.1
1	0655	84	6159.	2083.2	3213.6	*	1	1515	184	179.	1913.4	3211.0	*	1	2335	284	175.	1791.4	3209.1
1	0700	85	5469.	2074.4	3213.4	*	1	1520	185	179.	1912.2	3211.0	*	1	2340	285	175.	1790.2	3209.1
1	0705	86	4826.	2066.2	3213.3	*	1	1525	186	179.	1910.9	3211.0	*	1	2345	286	175.	1789.0	3209.1
1	0710	87	4238.	2058.7	3213.2	*	1	1530	187	179.	1909.7	3211.0	*	1	2350	287	175.	1787.8	3209.0
1	0715	88	3707.	2051.9	3213.1	*	1	1535	188	179.	1908.5	3211.0	*	1	2355	288	175.	1786.6	3209.0
1	0720	89	3230.	2045.9	3213.0	*	1	1540	189	179.	1907.2	3210.9	*	2	0000	289	175.	1785.4	3209.0
1	0725	90	2805.	2040.4	3213.0	*	1	1545	190	179.	1906.0	3210.9	*	2	0005	290	175.	1784.2	3209.0
1	0730	91	2427.	2035.6	3212.9	*	1	1550	191	179.	1904.8	3210.9	*	2	0010	291	175.	1783.0	3209.0
1	0735	92	2092.	2031.4	3212.8	*	1	1555	192	179.	1903.5	3210.9	*	2	0015	292	175.	1781.8	3208.9
1	0740	93	1796.	2027.6	3212.8	*	1	1600	193	179.	1902.3	3210.9	*	2	0020	293	175.	1780.6	3208.9
1	0745	94	1535.	2024.2	3212.7	*	1	1605	194	179.	1901.1	3210.8	*	2	0025	294	175.	1779.4	3208.9
1	0750	95	1305.	2021.3	3212.7	*	1	1610	195	179.	1899.9	3210.8	*	2	0030	295	175.	1778.2	3208.9
1	0755	96	1105.	2018.8	3212.7	*	1	1615	196	179.	1898.6	3210.8	*	2	0035	296	175.	1777.0	3208.9
1	0800	97	931.	2016.6	3212.6	*	1	1620	197	179.	1897.4	3210.8	*	2	0040	297	175.	1775.7	3208.9
1	0805	98	782.	2014.6	3212.6	*	1	1625	198	179.	1896.2	3210.8	*	2	0045	298	175.	1774.5	3208.8
1	0810	99	654.	2013.0	3212.6	*	1	1630	199	178.	1894.9	3210.7	*	2	0050	299	175.	1773.3	3208.8
1	0815	100	545.	2011.6	3212.6	*	1	1635	200	178.	1893.7	3210.7	*	2	0055	300	175.	1772.1	3208.8

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 21929.	5.33	5315.	1444.	1391.	1391.
		(INCHES) .903	.981	.981	.981
		(AC-FT) 2635.	2864.	2864.	2864.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
2231.	5.33	2059.	1668.	1607.	1607.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3215.62	5.33	3213.22	3205.01	3203.40	3203.40

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .86

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE		DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE		DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000	1	0.	.0	3161.0	*	1	0820	101	453.	2010.4	3212.5	*	1	1640	201	178.	1892.5	3210.7
1	0005	2	0.	.0	3161.0	*	1	0825	102	375.	2009.5	3212.5	*	1	1645	202	178.	1891.2	3210.7
1	0010	3	0.	.0	3161.0	*	1	0830	103	310.	2008.6	3212.5	*	1	1650	203	178.	1890.0	3210.7
1	0015	4	0.	.0	3161.0	*	1	0835	104	256.	2007.9	3212.5	*	1	1655	204	178.	1888.8	3210.6
1	0020	5	0.	.0	3161.0	*	1	0840	105	211.	2007.4	3212.5	*	1	1700	205	178.	1887.6	3210.6
1	0025	6	0.	.0	3161.0	*	1	0845	106	182.	2006.9	3212.5	*	1	1705	206	178.	1886.3	3210.6
1	0030	7	0.	.1	3161.0	*	1	0850	107	182.	2006.3	3212.5	*	1	1710	207	178.	1885.1	3210.6
1	0035	8	0.	.4	3161.0	*	1	0855	108	182.	2005.6	3212.5	*	1	1715	208	178.	1883.9	3210.6
1	0040	9	1.	.7	3161.1	*	1	0900	109	182.	2004.9	3212.5	*	1	1720	209	178.	1882.7	3210.6
1	0045	10	1.	1.0	3161.1	*	1	0905	110	182.	2004.0	3212.5	*	1	1725	210	178.	1881.4	3210.5
1	0050	11	2.	1.4	3161.2	*	1	0910	111	182.	2003.0	3212.4	*	1	1730	211	178.	1880.2	3210.5
1	0055	12	2.	1.7	3161.2	*	1	0915	112	182.	2002.0	3212.4	*	1	1735	212	178.	1879.0	3210.5
1	0100	13	2.	2.1	3161.2	*	1	0920	113	182.	2001.0	3212.4	*	1	1740	213	178.	1877.8	3210.5
1	0105	14	3.	2.5	3161.3	*	1	0925	114	182.	1999.9	3212.4	*	1	1745	214	178.	1876.5	3210.5
1	0110	15	3.	3.0	3161.3	*	1	0930	115	182.	1998.8	3212.4	*	1	1750	215	178.	1875.3	3210.4
1	0115	16	4.	3.6	3161.4	*	1	0935	116	182.	1997.6	3212.4	*	1	1755	216	178.	1874.1	3210.4
1	0120	17	5.	4.4	3161.5	*	1	0940	117	182.	1996.4	3212.3	*	1	1800	217	178.	1872.9	3210.4
1	0125	18	6.	5.5	3161.6	*	1	0945	118	182.	1995.2	3212.3	*	1	1805	218	178.	1871.6	3210.4
1	0130	19	8.	6.8	3161.8	*	1	0950	119	182.	1994.0	3212.3	*	1	1810	219	178.	1870.4	3210.4
1	0135	20	9.	8.5	3161.9	*	1	0955	120	182.	1992.8	3212.3	*	1	1815	220	178.	1869.2	3210.3
1	0140	21	11.	10.7	3162.1	*	1	1000	121	182.	1991.6	3212.3	*	1	1820	221	178.	1868.0	3210.3
1	0145	22	12.	13.3	3162.2	*	1	1005	122	181.	1990.3	3212.2	*	1	1825	222	178.	1866.7	3210.3
1	0150	23	14.	16.4	3162.4	*	1	1010	123	181.	1989.1	3212.2	*	1	1830	223	178.	1865.5	3210.3
1	0155	24	15.	20.0	3162.6	*	1	1015	124	181.	1987.9	3212.2	*	1	1835	224	178.	1864.3	3210.3
1	0200	25	17.	24.1	3162.8	*	1	1020	125	181.	1986.6	3212.2	*	1	1840	225	177.	1863.1	3210.2
1	0205	26	19.	28.7	3163.0	*	1	1025	126	181.	1985.4	3212.2	*	1	1845	226	177.	1861.8	3210.2
1	0210	27	22.	33.8	3163.3	*	1	1030	127	181.	1984.1	3212.2	*	1	1850	227	177.	1860.6	3210.2
1	0215	28	25.	39.7	3163.6	*	1	1035	128	181.	1982.9	3212.1	*	1	1855	228	177.	1859.4	3210.2
1	0220	29	28.	46.3	3163.9	*	1	1040	129	181.	1981.6	3212.1	*	1	1900	229	177.	1858.2	3210.2
1	0225	30	31.	53.8	3164.3	*	1	1045	130	181.	1980.4	3212.1	*	1	1905	230	177.	1857.0	3210.1
1	0230	31	35.	62.0	3164.7	*	1	1050	131	181.	1979.1	3212.1	*	1	1910	231	177.	1855.7	3210.1
1	0235	32	40.	71.2	3165.2	*	1	1055	132	181.	1977.9	3212.1	*	1	1915	232	177.	1854.5	3210.1
1	0240	33	45.	81.2	3165.7	*	1	1100	133	181.	1976.7	3212.0	*	1	1920	233	177.	1853.3	3210.1
1	0245	34	50.	92.2	3166.2	*	1	1105	134	181.	1975.4	3212.0	*	1	1925	234	177.	1852.1	3210.1
1	0250	35	56.	104.3	3166.9	*	1	1110	135	181.	1974.2	3212.0	*	1	1930	235	177.	1850.9	3210.0
1	0255	36	59.	117.6	3167.4	*	1	1115	136	181.	1972.9	3212.0	*	1	1935	236	177.	1849.6	3210.0
1	0300	37	62.	132.2	3168.0	*	1	1120	137	181.	1971.7	3212.0	*	1	1940	237	177.	1848.4	3210.0
1	0305	38	65.	148.1	3168.7	*	1	1125	138	181.	1970.4	3211.9	*	1	1945	238	177.	1847.2	3210.0
1	0310	39	68.	165.6	3169.4	*	1	1130	139	181.	1969.2	3211.9	*	1	1950	239	177.	1846.0	3210.0
1	0315	40	72.	185.3	3170.2	*	1	1135	140	181.	1967.9	3211.9	*	1	1955	240	177.	1844.8	3209.9
1	0320	41	76.	207.9	3171.1	*	1	1140	141	181.	1966.7	3211.9	*	1	2000	241	177.	1843.5	3209.9
1	0325	42	80.	234.5	3172.1	*	1	1145	142	181.	1965.4	3211.9	*	1	2005	242	177.	1842.3	3209.9
1	0330	43	85.	266.5	3173.3	*	1	1150	143	181.	1964.2	3211.8	*	1	2010	243	177.	1841.1	3209.9
1	0335	44	90.	304.7	3174.6	*	1	1155	144	181.	1963.0	3211.8	*	1	2015	244	177.	1839.9	3209.9
1	0340	45	96.	348.5	3176.2	*	1	1200	145	181.	1961.7	3211.8	*	1	2020	245	177.	1838.7	3209.9
1	0345	46	101.	396.2	3177.8	*	1	1205	146	181.	1960.5	3211.8	*	1	2025	246	177.	1837.5	3209.8
1	0350	47	106.	447.9	3179.4	*	1	1210	147	181.	1959.2	3211.8	*	1	2030	247	177.	1836.2	3209.8
1	0355	48	112.	505.2	3181.2	*	1	1215	148	180.	1958.0	3211.7	*	1	2035	248	177.	1835.0	3209.8
1	0400	49	117.	569.3	3183.1	*	1	1220	149	180.	1956.7	3211.7	*	1	2040	249	177.	1833.8	3209.8
1	0405	50	123.	641.3	3185.2	*	1	1225	150	180.	1955.5	3211.7	*	1	2045	250	177.	1832.6	3209.8
1	0410	51	129.	721.7	3187.4	*	1	1230	151	180.	1954.3	3211.7	*	1	2050	251	176.	1831.4	3209.7
1	0415	52	134.	811.2	3189.7	*	1	1235	152	180.	1953.0	3211.7	*	1	2055	252	176.	1830.2	3209.7
1	0420	53	140.	910.6	3192.2	*	1	1240	153	180.	1951.8	3211.6	*	1	2100	253	176.	1828.9	3209.7
1	0425	54	146.	1020.4	3194.6	*	1	1245	154	180.	1950.5	3211.6	*	1	2105	254	176.	1827.7	3209.7
1	0430	55	152.

| | | |

				TIME	4.17	4.17	4.17	4.17
ROUTED TO								
+	R-RR12A	5.82	1	FLOW	3088.	3036.	2995.	2959.
				TIME	4.42	4.42	4.42	4.42
HYDROGRAPH AT								
+	104A	3.39	1	FLOW	1154.	1130.	1111.	1094.
				TIME	4.25	4.25	4.25	4.25
3 COMBINED AT								
+	C104A	47.87	1	FLOW	22884.	22501.	22195.	21928.
				TIME	5.00	5.00	5.00	5.00
HYDROGRAPH AT								
+	RD1	.43	1	FLOW	425.	417.	412.	407.
				TIME	3.58	3.58	3.58	3.58
ROUTED TO								
+	R-RD1	.43	1	FLOW	416.	408.	402.	398.
				TIME	3.67	3.67	3.67	3.67
HYDROGRAPH AT								
+	RD2	.47	1	FLOW	580.	571.	565.	559.
				TIME	3.58	3.58	3.58	3.58
2 COMBINED AT								
+	CRD2	.90	1	FLOW	966.	952.	938.	927.
				TIME	3.58	3.58	3.58	3.58
ROUTED TO								
+	RCRD2	.90	1	FLOW	942.	918.	914.	899.
				TIME	3.67	3.67	3.67	3.67
HYDROGRAPH AT								
+	RD3	.33	1	FLOW	384.	379.	374.	370.
				TIME	3.58	3.58	3.58	3.58
2 COMBINED AT								
+	CRD3	1.23	1	FLOW	1288.	1265.	1253.	1234.
				TIME	3.58	3.58	3.58	3.58
HYDROGRAPH AT								
+	RR14A	4.60	1	FLOW	2592.	2549.	2514.	2484.
				TIME	4.17	4.17	4.17	4.17
ROUTED TO								
+	R-RR14A	4.60	1	FLOW	2581.	2539.	2504.	2474.
				TIME	4.17	4.17	4.17	4.17
HYDROGRAPH AT								
+	RD4	.40	1	FLOW	388.	382.	376.	371.
				TIME	3.58	3.58	3.58	3.58
2 COMBINED AT								
+	CRD4	5.00	1	FLOW	2664.	2621.	2585.	2554.
				TIME	4.17	4.17	4.17	4.17
ROUTED TO								
+	RCRD4	5.00	1	FLOW	2656.	2612.	2576.	2544.
				TIME	4.17	4.17	4.17	4.17
HYDROGRAPH AT								
+	RD5	.37	1	FLOW	376.	370.	364.	360.
				TIME	3.58	3.58	3.58	3.58
2 COMBINED AT								
+	CRD5	5.37	1	FLOW	2727.	2683.	2646.	2613.
				TIME	4.17	4.17	4.17	4.17
ROUTED TO								
+	RCRD5	5.37	1	FLOW	2718.	2676.	2636.	2607.
				TIME	4.17	4.17	4.17	4.17
HYDROGRAPH AT								
+	RD6	.25	1	FLOW	292.	287.	284.	281.
				TIME	3.58	3.58	3.58	3.58
2 COMBINED AT								
+	CRD6	5.62	1	FLOW	2770.	2727.	2687.	2657.
				TIME	4.17	4.17	4.17	4.17
3 COMBINED AT								
+	INRR	54.73	1	FLOW	25086.	24673.	24339.	24050.
				TIME	5.00	5.00	5.00	5.00
ROUTED TO								
+	RRDB	54.73	1	FLOW	22509.	21929.	21510.	21142.
				TIME	5.25	5.33	5.33	5.33

** PEAK STAGES IN FEET **

1	STAGE	3215.69	3215.62	3215.57	3215.52
	TIME	5.25	5.33	5.33	5.33

DIVERSION TO								
+	*D-RROUT	54.73	1	FLOW	22327.	21747.	21328.	20960.
				TIME	5.25	5.33	5.33	5.33
HYDROGRAPH AT								
+	*DOUTRR	54.73	1	FLOW	182.	182.	182.	182.
				TIME	5.00	5.00	5.00	5.00
ROUTED TO								
+	ROUTRR	54.73	1	FLOW	182.	182.	182.	182.
				TIME	5.08	5.17	5.17	5.17
HYDROGRAPH AT								
+	R3A	.19	1	FLOW	169.	166.	163.	161.
				TIME	3.50	3.50	3.50	3.50
2 COMBINED AT								
+	CR3A	54.92	1	FLOW	254.	249.	246.	243.
				TIME	3.58	3.58	3.58	3.58
ROUTED TO								
+	RCR3A	54.92	1	FLOW	255.	250.	247.	244.
				TIME	3.67	3.67	3.67	3.67

1

*** NORMAL END OF HEC-1 ***

B.3.10 50-year_FLAM5A

```
1****************************************

 *                                      *
 *   FLOOD HYDROGRAPH PACKAGE  (HEC-1)  *
 *              JUN   1998              *
 *           VERSION 4.1                *
 *                                      *
 *  RUN DATE   20MAY20  TIME  09:44:19  *
 *                                      *
 ****************************************
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**************************************
*                                    *
*   U.S. ARMY CORPS OF ENGINEERS     *
*   HYDROLOGIC ENGINEERING CENTER    *
*        609 SECOND STREET           *
*      DAVIS, CALIFORNIA 95616       *
*          (916) 756-1104            *
*                                    *
**************************************
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X     X  XXXXXXX   XXXXX          X
X     X  X        X     X        XX
X     X  X        X              X
XXXXXXX  XXXX     X       XXXXX  X
X     X  X        X              X
X     X  X        X     X        X
X     X  XXXXXXX   XXXXX         XXX
```

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL   LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM


```
          LINE      ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

                    *DIAGRAM
 *** FREE ***
               1    ID   RED ROCK TRAIL TO FY19-87
               2    ID   US FEDERAL HIGHWAY ADMINISTRATION
               3    ID   PN WXXY4000
               4    ID
               5    ID   HEC-1 MODEL TAKEN FROM CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT (CCRFCD)
               6    ID   2018 MASTER PLAN UPDATE
               7    ID   FLAMINGO / TROPICANA WASHES WATERSHED
               8    ID   RECOMMENDED DRAINAGE SYSTEM WITH ULTIMATE DEVELOPMENT
               9    ID   INPUT FILE = FLAM3A.DAT
              10    ID   INPUT FILE DATE = MAY 2020
              11    ID   PRECIPITATION VALUES TAKEN FROM NOAA ATLAS 2 &
              12    ID   ADJUSTED PER CCRFCD HYDRAULIC CRITERIA & DRAINAGE DESIGN MANUAL TABLE 501
              13    ID   DESIGN STORM = 50-YEAR, 6-HOUR STORM
              14    ID   STORM DISTRIBUTION = SDN5
              15    ID   STORM CENTERING = SERIES A: REGIONAL DETENTION BASIN FLOWS NOT DIVERTED OUT
              16    ID   MODELED BY JACOBS (DAVE BERGH, PE)
              17    ID
              18    ID   JR CARDS CONTAIN DARFS BASED ON THE FOLLOWING VALUES:
              19    ID
              20    ID         AREA    DARF
              21    ID         SQ.MI.
              22    ID                 SDN 3   SDN 4   SDN 5
              23    ID         0 - 0.5 0.990
              24    ID         0.5 - 1 0.975
              25    ID         1 - 2   0.950
              26    ID         2 - 3   0.925
              27    ID         3 - 4   0.915
              28    ID         4 - 5   0.908
              29    ID         5 - 6   0.903
              30    ID         6 - 7   0.895
              31    ID         7 - 8   0.885
              32    ID         8 - 9           0.875
              33    ID         9 - 10          0.865
              34    ID         10 - 11         0.857
              35    ID         11 - 12         0.850
              36    ID         12 - 16                 0.832
              37    ID         16 - 20                 0.804
              38    ID         20 - 30                 0.765
              39    ID         30 - 40                 0.725
              40    ID         40 - 50                 0.695
              41    ID         50 - 100                0.640
              42    ID         100 - 150               0.580
              43    ID         150 - 200               0.530
              44    ID
              45    IT      5       0       0     300
              46    IO      5       0       0
              47    IN      5       0       0
              48    JR    PREC   0.832   0.804   0.765   0.725   0.695    0.64    0.58    0.53
                    *
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          LINE      ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

              49    KK     RR1
              50    BA   4.225
              51    PB    3.59
              52    PC       0    0.02   0.059    0.08    0.11   0.144    0.15    0.16   0.168   0.171
              53    PC    0.18   0.182   0.187    0.19   0.197   0.202    0.21    0.22    0.23   0.241
              54    PC    0.25   0.259   0.265    0.28    0.29     0.3   0.305   0.309    0.31   0.317
              55    PC   0.321   0.327   0.333   0.346   0.361   0.381   0.408    0.43   0.477   0.514
              56    PC   0.561    0.63    0.71    0.72   0.731   0.752   0.779    0.79   0.795   0.804
              57    PC    0.81    0.82   0.826    0.84   0.859   0.889    0.91   0.938   0.966    0.97
              58    PC   0.974   0.979   0.981   0.983   0.985   0.989    0.99   0.992   0.993   0.996
              59    PC   0.997   0.999       1
              60    LS       0    85.8
              61    UD   0.443
                    *
              62    KK     RR2
              63    BA   3.547
              64    PB    3.64
              65    LS       0    86.2
              66    UD   0.545
                    *
              67    KK    RRR2
              68    KM   MUSKINGUM ROUTING UNSTABLE - USED MUSKINGUM-CUNGE
              69    KM   NATURAL WASH
              70    RD    1700   0.076    0.04       0    TRAP     100       2
                    *
              71    KK    CRR2
              72    KM   COMBINE RR1 AND RRR2
              73    HC       2
                    *
              74    KK   RCRR2
              75    KM   ROUTE CRR2 TO CRR3
              76    KM   NATURAL WASH
              77    KM   TRAVEL LENGTH = 15850
              78    KM   SLOPE = 0.043
              79    KM   N = 0.04
              80    KM   HYDRAULIC RADIUS = 1.5
              81    KM   VELOCITY = 16.2
              82    RM       3   0.272    0.15
                    *
              83    KK     RR5
              84    BA   7.132
              85    PB    3.46
              86    LS       0    87.9
              87    UD   0.615
                    *
```



```
          LINE      ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

              88    KK   R-RR5
              89    KM   ROUTE RR5 THROUGH RR3 TO CRR3
              90    KM   NATURAL WASH
              91    KM   TRAVEL LENGTH = 10700
              92    KM   SLOPE = 0.037
              93    KM   N = 0.04
              94    KM   HYDRAULIC RADIUS = 1.5
              95    KM   VELOCITY = 15
              96    RM       2   0.198    0.15
                    *
              97    KK     RR3
              98    BA  14.983
              99    PB    3.34
             100    LS       0      87
             101    UD   0.761
                    *
             102    KK    CRR3
             103    KM   COMBINE RCRR2, R-RR5, AND RR3
             104    HC       3
                    *
             105    KK   RCRR3
             106    KM   ROUTE CRR3 THROUGH RR10 TO CRR10
             107    KM   NATURAL WASH
             108    KM   TRAVEL LENGTH = 20700
             109    KM   SLOPE = 0.025
             110    KM   N = 0.04
             111    KM   HYDRAULIC RADIUS = 1.5
             112    KM   VELOCITY = 12.3
             113    RM       6   0.466    0.15
                    *
             114    KK    RR10
             115    BA   8.775
             116    PB    3.06
             117    LS       0    86.1
             118    UD   0.882
```

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                 *

  119            KK   CRR10
  120            KM   COMBINE RCRR3 AND RR10
  121            HC       2
                 *

  122            KK  RCRR10
  123            KM   ROUTE CRR10 THROUGH 104A TO C104A (RED ROCK DETENTION BASIN)
  124            KM   NATURAL WASH
  125            KM   TRAVEL LENGTH = 14500
  126            KM   SLOPE = 0.021
  127            KM   N = 0.04
  128            KM   HYDRAULIC RADIUS = 1.5
  129            KM   VELOCITY = 11.3
1                                    HEC-1 INPUT                                    PAGE  4

 LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  130            RM       4   0.356    0.15
                 *

  131            KK   RR12A
  132            BA   5.821
  133            PB    3.20
  134            LS       0    87.6
  135            UD   0.728
                 *

  136            KK R-RR12A
  137            KM   ROUTE RR12A THROUGH 104A TO C104A (RED ROCK DETENTION BASIN)
  138            KM   NATURAL WASH
  139            KM   TRAVEL LENGTH = 12000
  140            KM   SLOPE = 0.026
  141            KM   N = 0.04
  142            KM   HYDRAULIC RADIUS = 1.5
  143            KM   VELOCITY = 12.6
  144            RM       3   0.265    0.15
                 *

  145            KK    104A
  146            BA   3.391
  147            PB    2.99
  148            LS       0    81.3
  149            UD   0.801
                 *

  150            KK   C104A
  151            KM   COMBINE RCRR10, R-RR12A, AND 104A
  152            HC       3
                 *

  153            KK     RD1
  154            BA   0.431
  155            PB    3.16
  156            LS       0    86.6
  157            UD   0.195
                 *

  158            KK   R-RD1
  159            KM   ROUTE RD1 THROUGH RD2 TO CRD2
  160            KM   FUTURE CONCRETE CHANNEL
  161            RD    5100   0.061   0.015       0    TRAP      12       2
                 *

  162            KK     RD2
  163            BA   0.473
  164            PB    3.10
  165            LS       0    91.2
  166            UD   0.167
                 *
1                                    HEC-1 INPUT                                    PAGE  5

 LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  167            KK    CRD2
  168            KM   COMBINE R-RD1 AND RD2
  169            HC       2
                 *

  170            KK   RCRD2
  171            KM   ROUTE CRD2 TO CRD3 (RED ROCK DETENTION BASIN)
  172            KM   FUTURE CONCRETE CHANNEL
  173            RD    4600    0.05   0.015       0    TRAP      12       2
                 *

  174            KK     RD3
  175            BA    0.33
  176            PB    3.06
  177            LS       0    90.3
  178            UD   0.168
                 *

  179            KK    CRD3
  180            KM   COMBINE RCRD2 AND RD3
  181            HC       2
                 *

  182            KK   RR14A
  183            BA   4.602
  184            PB    3.28
  185            LS       0    87.3
  186            UD   0.725
                 *

  187            KK R-RR14A
  188            KM   ROUTE RR14A THROUGH RD4 TO CRD4
  189            KM   FUTURE CONCRETE CHANNEL
  190            RD    5500   0.071   0.015       0    TRAP      12       2
                 *

  191            KK     RD4
  192            BA   0.402
  193            PB    3.16
  194            LS       0    85.1
  195            UD   0.177
                 *

  196            KK    CRD4
  197            KM   COMBINE R-RR14A AND RD4
  198            HC       2
                 *

  199            KK   RCRD4
  200            KM   ROUTE CRD4 THROUGH RD5 TO CRD5
  201            KM   FUTURE CONCRETE CHANNEL
  202            RD    4550   0.067   0.015       0    TRAP      20       2
                 *
1                                    HEC-1 INPUT                                    PAGE  6

 LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  203            KK     RD5
  204            BA    0.37
  205            PB    3.10
  206            LS       0    86.2
  207            UD   0.163
                 *

  208            KK    CRD5
  209            KM   COMBINE RCRD4 AND RD5
  210            HC       2
                 *

  211            KK   RCRD5
  212            KM   ROUTE CRD5 THROUGH RD6 TO CRD6 (RED ROCK DETENTION BASIN)
  213            KM   FUTURE CONCRETE CHANNEL
  214            RD    5600   0.047   0.015       0    TRAP      20       2
                 *

  215            KK     RD6
  216            BA    0.25
  217            PB    3.06
  218            LS       0      90
  219            UD    0.16
                 *

  220            KK    CRD6
  221            KM   COMBINE RCRD5 AND RD6
  222            HC       2
                 *

  223            KK    INRR
  224            KM   COMBINE C104A, CRD3, AND CRD6 - TOTAL INFLOW TO RED ROCK DETENTION BASIN
  225            KO       1
  226            HC       3
                 * ============================================================

  227            KK    RRDB
  228            KM   RED ROCK DETENTION BASIN
  229            KM   TAKEN FROM THE CORP MODELS FOR RED ROCK DETENTION BASIN
  230            KM   100YR COMPUTED PROBABILITY DETENTION DESIGN
  231            KM   FACILITY ID-MILE = RRWA 0716
  232            KM   STORAGE VOLUME = 2007 ACRE-FEET
  233            KM   OUTLET = 27"H x 27"W RCB ORIFICE
  234            KM   100-YR DISCHARGE = 182 CFS
  235            KM   SPILLWAY LENGTH = 600 FT
  236            KM   AUXILLARY OGEE SPILLWAY LENGTH = 323 FT
  237            KM   SPILLWAY CREST ELEVATION = 3212.5 FT NGVD
  238            KM   PMF DISCHARGE = 110000 CFS
  239            KM   TOP OF DAM ELEVATION = 3225 FT NGVD
  240            KO       1
  241            RS       1    STOR      -1
  242            SV       0       9     107     231     372     529     705     903    1125    1376
  243            SV    1659    1974    2007    2115    2331    2690    2933
  244            SQ       0      10      57      80      99     114     128     140     151     162
```
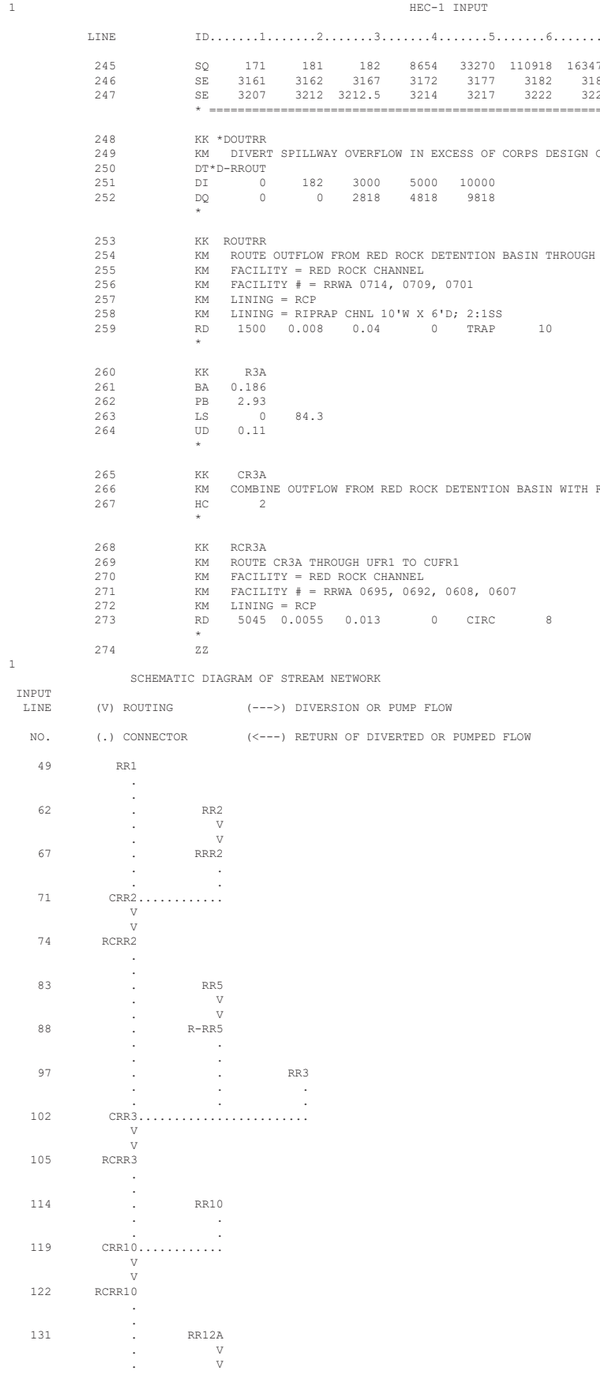
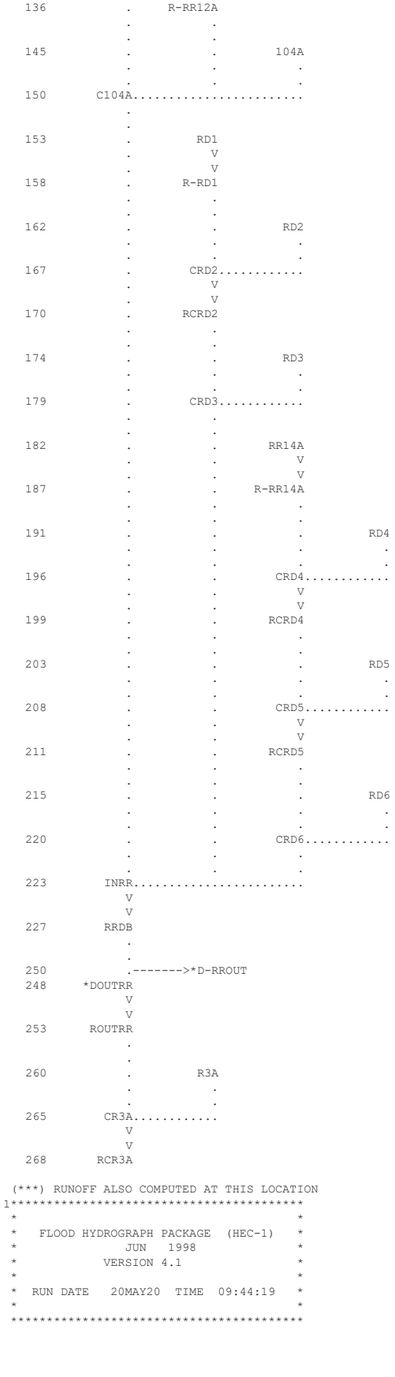

```
  LINE          ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

  245           SQ     171     181     182    8654   33270  110918  163477
  246           SE    3161    3162    3167    3172    3177    3182    3187    3192    3197    3202
  247           SE    3207    3212  3212.5    3214    3217    3222    3225
                * ========================================================

  248           KK *DOUTRR
  249           KM   DIVERT SPILLWAY OVERFLOW IN EXCESS OF CORPS DESIGN OUTFLOW
  250           DT*D-RROUT
  251           DI       0     182    3000    5000   10000
  252           DQ       0       0    2818    4818    9818
                *

  253           KK  ROUTRR
  254           KM   ROUTE OUTFLOW FROM RED ROCK DETENTION BASIN THROUGH R3A TO CR3A
  255           KM   FACILITY = RED ROCK CHANNEL
  256           KM   FACILITY # = RRWA 0714, 0709, 0701
  257           KM   LINING = RCP
  258           KM   LINING = RIPRAP CHNL 10'W X 6'D; 2:1SS
  259           RD    1500   0.008    0.04       0    TRAP      10       2
                *

  260           KK     R3A
  261           BA   0.186
  262           PB    2.93
  263           LS       0    84.3
  264           UD    0.11
                *

  265           KK    CR3A
  266           KM   COMBINE OUTFLOW FROM RED ROCK DETENTION BASIN WITH R3A
  267           HC       2
                *

  268           KK   RCR3A
  269           KM   ROUTE CR3A THROUGH UFR1 TO CUFR1
  270           KM   FACILITY = RED ROCK CHANNEL
  271           KM   FACILITY # = RRWA 0695, 0692, 0608, 0607
  272           KM   LINING = RCP
  273           RD    5045  0.0055   0.013       0    CIRC       8       0
                *

  274           ZZ
```

1

SCHEMATIC DIAGRAM OF STREAM NETWORK

INPUT
LINE (V) ROUTING (---->) DIVERSION OR PUMP FLOW
NO. (.) CONNECTOR (<---) RETURN OF DIVERTED OR PUMPED FLOW





(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

```
1*****************************************
 *                                       *
 *   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
 *             JUN   1998                *
 *          VERSION 4.1                  *
 *                                       *
 *  RUN DATE   20MAY20  TIME  09:44:19   *
 *                                       *
 *****************************************
```

```
*************************************
*                                   *
*    U.S. ARMY CORPS OF ENGINEERS   *
*    HYDROLOGIC ENGINEERING CENTER  *
*         609 SECOND STREET         *
*       DAVIS, CALIFORNIA 95616     *
*           (916) 756-1104          *
*                                   *
*************************************
```

```
                    RED ROCK TRAIL TO FY19-87
                    US FEDERAL HIGHWAY ADMINISTRATION
                    PN WXXY4000

                    HEC-1 MODEL TAKEN FROM CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT (CCRFCD)
                    2018 MASTER PLAN UPDATE
                    FLAMINGO / TROPICANA WASHES WATERSHED
                    RECOMMENDED DRAINAGE SYSTEM WITH ULTIMATE DEVELOPMENT
                    INPUT FILE = FLAM3A.DAT
                    INPUT FILE DATE = MAY 2020
                    PRECIPITATION VALUES TAKEN FROM NOAA ATLAS 2 &
                    ADJUSTED PER CCRFCD HYDRAULIC CRITERIA & DRAINAGE DESIGN MANUAL TABLE 501
                    DESIGN STORM = 50-YEAR, 6-HOUR STORM
                    STORM DISTRIBUTION = SDN5
                    STORM CENTERING = SERIES A: REGIONAL DETENTION BASIN FLOWS NOT DIVERTED OUT
                    MODELED BY JACOBS (DAVE BERGH, PE)

                    JR CARDS CONTAIN DARFS BASED ON THE FOLLOWING VALUES:

                           AREA    DARF
                           SQ.MI.
                                   SDN 3   SDN 4   SDN 5
                           0 - 0.5 0.990
                           0.5 - 1 0.975
                           1 - 2   0.950
                           2 - 3   0.925
                           3 - 4   0.915
                           4 - 5   0.908
                           5 - 6   0.903
                           6 - 7   0.895
                           7 - 8   0.885
                           8 - 9           0.875
                           9 - 10          0.865
                           10 - 11         0.857
                           11 - 12         0.850
                           12 - 16                 0.832
                           16 - 20                 0.804
                           20 - 30                 0.765
                           30 - 40                 0.725
                           40 - 50                 0.695
                           50 - 100                0.640
                           100 - 150               0.580
                           150 - 200               0.530


  46 IO         OUTPUT CONTROL VARIABLES
                      IPRNT          5  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

     IT         HYDROGRAPH TIME DATA
                       NMIN          5  MINUTES IN COMPUTATION INTERVAL
                      IDATE      1    0  STARTING DATE
                      ITIME       0000  STARTING TIME
                         NQ        300  NUMBER OF HYDROGRAPH ORDINATES
                     NDDATE      2    0  ENDING DATE
                     NDTIME       0055  ENDING TIME
                      ICENT         19  CENTURY MARK

                  COMPUTATION INTERVAL     .08 HOURS
                       TOTAL TIME BASE   24.92 HOURS

            ENGLISH UNITS
                 DRAINAGE AREA         SQUARE MILES
                 PRECIPITATION DEPTH   INCHES
                 LENGTH, ELEVATION     FEET
                 FLOW                  CUBIC FEET PER SECOND
                 STORAGE VOLUME        ACRE-FEET
                 SURFACE AREA          ACRES
                 TEMPERATURE           DEGREES FAHRENHEIT

     JP         MULTI-PLAN OPTION
                      NPLAN          1  NUMBER OF PLANS

     JR         MULTI-RATIO OPTION
                    RATIOS OF PRECIPITATION
                      .83      .80      .76      .73      .69      .64      .58      .53


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


             **************
             *            *
  223 KK     *     INRR   *
             *            *
             **************

  225 KO        OUTPUT CONTROL VARIABLES
                      IPRNT          1  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

  226 HC        HYDROGRAPH COMBINATION
                      ICOMP          3  NUMBER OF HYDROGRAPHS TO COMBINE

                                         ***

*********************************************************************************************************

                              HYDROGRAPH AT STATION     INRR
                                  SUM OF  3 HYDROGRAPHS
                                 PLAN 1,   RATIO =   .83

*********************************************************************************************************
```

DA MON	HRMN	ORD	FLOW	DA MON	HRMN	ORD	FLOW	DA MON	HRMN	ORD	FLOW	DA MON	HRMN	ORD	FLOW
1	0000	1	0.	1	0615	76	11760.	1	1230	151	0.	1	1845	226	0.
1	0005	2	0.	1	0620	77	11010.	1	1235	152	0.	1	1850	227	0.
1	0010	3	0.	1	0625	78	10184.	1	1240	153	0.	1	1855	228	0.
1	0015	4	0.	1	0630	79	9308.	1	1245	154	0.	1	1900	229	0.
1	0020	5	2.	1	0635	80	8413.	1	1250	155	0.	1	1905	230	0.
1	0025	6	13.	1	0640	81	7529.	1	1255	156	0.	1	1910	231	0.
1	0030	7	38.	1	0645	82	6685.	1	1300	157	0.	1	1915	232	0.
1	0035	8	60.	1	0650	83	5899.	1	1305	158	0.	1	1920	233	0.
1	0040	9	67.	1	0655	84	5184.	1	1310	159	0.	1	1925	234	0.
1	0045	10	72.	1	0700	85	4541.	1	1315	160	0.	1	1930	235	0.
1	0050	11	78.	1	0705	86	3969.	1	1320	161	0.	1	1935	236	0.
1	0055	12	90.	1	0710	87	3460.	1	1325	162	0.	1	1940	237	0.
1	0100	13	107.	1	0715	88	3009.	1	1330	163	0.	1	1945	238	0.
1	0105	14	128.	1	0720	89	2608.	1	1335	164	0.	1	1950	239	0.
1	0110	15	156.	1	0725	90	2252.	1	1340	165	0.	1	1955	240	0.
1	0115	16	194.	1	0730	91	1936.	1	1345	166	0.	1	2000	241	0.
1	0120	17	243.	1	0735	92	1656.	1	1350	167	0.	1	2005	242	0.
1	0125	18	304.	1	0740	93	1408.	1	1355	168	0.	1	2010	243	0.
1	0130	19	381.	1	0745	94	1191.	1	1400	169	0.	1	2015	244	0.
1	0135	20	471.	1	0750	95	1003.	1	1405	170	0.	1	2020	245	0.
1	0140	21	572.	1	0755	96	840.	1	1410	171	0.	1	2025	246	0.
1	0145	22	677.	1	0800	97	701.	1	1415	172	0.	1	2030	247	0.
1	0150	23	785.	1	0805	98	584.	1	1420	173	0.	1	2035	248	0.
1	0155	24	899.	1	0810	99	485.	1	1425	174	0.	1	2040	249	0.
1	0200	25	1031.	1	0815	100	402.	1	1430	175	0.	1	2045	250	0.
1	0205	26	1176.	1	0820	101	332.	1	1435	176	0.	1	2050	251	0.
1	0210	27	1316.	1	0825	102	275.	1	1440	177	0.	1	2055	252	0.
1	0215	28	1442.	1	0830	103	227.	1	1445	178	0.	1	2100	253	0.
1	0220	29	1557.	1	0835	104	187.	1	1450	179	0.	1	2105	254	0.
1	0225	30	1674.	1	0840	105	154.	1	1455	180	0.	1	2110	255	0.
1	0230	31	1812.	1	0845	106	127.	1	1500	181	0.	1	2115	256	0.
1	0235	32	1966.	1	0850	107	104.	1	1505	182	0.	1	2120	257	0.
1	0240	33	2129.	1	0855	108	85.	1	1510	183	0.	1	2125	258	0.
1	0245	34	2301.	1	0900	109	70.	1	1515	184	0.	1	2130	259	0.
1	0250	35	2493.	1	0905	110	57.	1	1520	185	0.	1	2135	260	0.
1	0255	36	2709.	1	0910	111	46.	1	1525	186	0.	1	2140	261	0.
1	0300	37	2952.	1	0915	112	37.	1	1530	187	0.	1	2145	262	0.
1	0305	38	3220.	1	0920	113	29.	1	1535	188	0.	1	2150	263	0.
1	0310	39	3516.	1	0925	114	23.	1	1540	189	0.	1	2155	264	0.
1	0315	40	3882.	1	0930	115	18.	1	1545	190	0.	1	2200	265	0.
1	0320	41	4306.	1	0935	116	13.	1	1550	191	0.	1	2205	266	0.
1	0325	42	4816.	1	0940	117	10.	1	1555	192	0.	1	2210	267	0.
1	0330	43	5515.	1	0945	118	8.	1	1600	193	0.	1	2215	268	0.
1	0335	44	6278.	1	0950	119	6.	1	1605	194	0.	1	2220	269	0.
1	0340	45	6783.	1	0955	120	5.	1	1610	195	0.	1	2225	270	0.
1	0345	46	7163.	1	1000	121	4.	1	1615	196	0.	1	2230	271	0.
1	0350	47	7760.	1	1005	122	3.	1	1620	197	0.	1	2235	272	0.
1	0355	48	8629.	1	1010	123	2.	1	1625	198	0.	1	2240	273	0.
1	0400	49	9599.	1	1015	124	2.	1	1630	199	0.	1	2245	274	0.
1	0405	50	10598.	1	1020	125	1.	1	1635	200	0.	1	2250	275	0.
1	0410	51	11671.	1	1025	126	1.	1	1640	201	0.	1	2255	276	0.
1	0415	52	12837.	1	1030	127	1.	1	1645	202	0.	1	2300	277	0.
1	0420	53	14064.	1	1035	128	0.	1	1650	203	0.	1	2305	278	0.
1	0425	54	15311.	1	1040	129	0.	1	1655	204	0.	1	2310	279	0.
1	0430	55	16563.	1	1045	130	0.	1	1700	205	0.	1	2315	280	0.
1	0435	56	17795.	1	1050	131	0.	1	1705	206	0.	1	2320	281	0.
1	0440	57	18925.	1	1055	132	0.	1	1710	207	0.	1	2325	282	0.
1	0445	58	19833.	1	1100	133	0.	1	1715	208	0.	1	2330	283	0.
1	0450	59	20476.	1	1105	134	0.	1	1720	209	0.	1	2335	284	0.
1	0455	60	20803.	1	1110	135	0.	1	1725	210	0.	1	2340	285	0.
1	0500	61	20732.	1	1115	136	0.	1	1730	211	0.	1	2345	286	0.
1	0505	62	20333.	1	1120	137	0.	1	1735	212	0.	1	2350	287	0.
1	0510	63	19750.	1	1125	138	0.	1	1740	213	0.	1	2355	288	0.
1	0515	64	19053.	1	1130	139	0.	1	1745	214	0.	2	0000	289	0.
1	0520	65	18284.	1	1135	140	0.	1	1750	215	0.	2	0005	290	0.
1	0525	66	17494.	1	1140	141	0.	1	1755	216	0.	2	0010	291	0.
1	0530	67	16729.	1	1145	142	0.	1	1800	217	0.	2	0015	292	0.
1	0535	68	16019.	1	1150	143	0.	1	1805	218	0.	2	0020	293	0.
1	0540	69	15384.	1	1155	144	0.	1	1810	219	0.	2	0025	294	0.
1	0545	70	14830.	1	1200	145	0.	1	1815	220	0.	2	0030	295	0.
1	0550	71	14352.	1	1205	146	0.	1	1820	221	0.	2	0035	296	0.
1	0555	72	13914.	1	1210	147	0.	1	1825	222	0.	2	0040	297	0.
1	0600	73	13472.	1	1215	148	0.	1	1830	223	0.	2	0045	298	0.
1	0605	74	12984.	1	1220	149	0.	1	1835	224	0.	2	0050	299	0.
1	0610	75	12419.	1	1225	150	0.	1	1840	225	0.	2	0055	300	0.

```
*********************************************************************************************************
```

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 20803.	4.92	8674.	2201.	2120.	2120.
		(INCHES) 1.473	1.495	1.495	1.495
		(AC-FT) 4301.	4365.	4365.	4365.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .80

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	11245.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	10531.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	9743.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	8906.	1		1245	154	0.	1		1900	229	0.
1		0020	5	1.	1		0635	80	8050.	1		1250	155	0.	1		1905	230	0.
1		0025	6	11.	1		0640	81	7205.	1		1255	156	0.	1		1910	231	0.
1		0030	7	33.	1		0645	82	6398.	1		1300	157	0.	1		1915	232	0.
1		0035	8	51.	1		0650	83	5647.	1		1305	158	0.	1		1920	233	0.
1		0040	9	58.	1		0655	84	4963.	1		1310	159	0.	1		1925	234	0.
1		0045	10	62.	1		0700	85	4348.	1		1315	160	0.	1		1930	235	0.
1		0050	11	67.	1		0705	86	3800.	1		1320	161	0.	1		1935	236	0.
1		0055	12	77.	1		0710	87	3313.	1		1325	162	0.	1		1940	237	0.
1		0100	13	90.	1		0715	88	2881.	1		1330	163	0.	1		1945	238	0.
1		0105	14	107.	1		0720	89	2497.	1		1335	164	0.	1		1950	239	0.
1		0110	15	131.	1		0725	90	2157.	1		1340	165	0.	1		1955	240	0.
1		0115	16	163.	1		0730	91	1854.	1		1345	166	0.	1		2000	241	0.
1		0120	17	205.	1		0735	92	1586.	1		1350	167	0.	1		2005	242	0.
1		0125	18	258.	1		0740	93	1349.	1		1355	168	0.	1		2010	243	0.
1		0130	19	324.	1		0745	94	1141.	1		1400	169	0.	1		2015	244	0.
1		0135	20	403.	1		0750	95	960.	1		1405	170	0.	1		2020	245	0.
1		0140	21	492.	1		0755	96	805.	1		1410	171	0.	1		2025	246	0.
1		0145	22	585.	1		0800	97	672.	1		1415	172	0.	1		2030	247	0.
1		0150	23	681.	1		0805	98	559.	1		1420	173	0.	1		2035	248	0.
1		0155	24	783.	1		0810	99	464.	1		1425	174	0.	1		2040	249	0.
1		0200	25	903.	1		0815	100	385.	1		1430	175	0.	1		2045	250	0.
1		0205	26	1037.	1		0820	101	318.	1		1435	176	0.	1		2050	251	0.
1		0210	27	1168.	1		0825	102	263.	1		1440	177	0.	1		2055	252	0.
1		0215	28	1286.	1		0830	103	217.	1		1445	178	0.	1		2100	253	0.
1		0220	29	1394.	1		0835	104	179.	1		1450	179	0.	1		2105	254	0.
1		0225	30	1505.	1		0840	105	147.	1		1455	180	0.	1		2110	255	0.
1		0230	31	1635.	1		0845	106	121.	1		1500	181	0.	1		2115	256	0.
1		0235	32	1782.	1		0850	107	100.	1		1505	182	0.	1		2120	257	0.
1		0240	33	1936.	1		0855	108	82.	1		1510	183	0.	1		2125	258	0.
1		0245	34	2100.	1		0900	109	67.	1		1515	184	0.	1		2130	259	0.
1		0250	35	2282.	1		0905	110	54.	1		1520	185	0.	1		2135	260	0.
1		0255	36	2487.	1		0910	111	44.	1		1525	186	0.	1		2140	261	0.
1		0300	37	2717.	1		0915	112	35.	1		1530	187	0.	1		2145	262	0.
1		0305	38	2970.	1		0920	113	28.	1		1535	188	0.	1		2150	263	0.
1		0310	39	3250.	1		0925	114	22.	1		1540	189	0.	1		2155	264	0.
1		0315	40	3597.	1		0930	115	17.	1		1545	190	0.	1		2200	265	0.
1		0320	41	4001.	1		0935	116	13.	1		1550	191	0.	1		2205	266	0.
1		0325	42	4488.	1		0940	117	10.	1		1555	192	0.	1		2210	267	0.
1		0330	43	5155.	1		0945	118	8.	1		1600	193	0.	1		2215	268	0.
1		0335	44	5882.	1		0950	119	6.	1		1605	194	0.	1		2220	269	0.
1		0340	45	6365.	1		0955	120	4.	1		1610	195	0.	1		2225	270	0.
1		0345	46	6731.	1		1000	121	3.	1		1615	196	0.	1		2230	271	0.
1		0350	47	7296.	1		1005	122	3.	1		1620	197	0.	1		2235	272	0.
1		0355	48	8120.	1		1010	123	2.	1		1625	198	0.	1		2240	273	0.
1		0400	49	9048.	1		1015	124	1.	1		1630	199	0.	1		2245	274	0.
1		0405	50	10004.	1		1020	125	1.	1		1635	200	0.	1		2250	275	0.
1		0410	51	11024.	1		1025	126	1.	1		1640	201	0.	1		2255	276	0.
1		0415	52	12132.	1		1030	127	1.	1		1645	202	0.	1		2300	277	0.
1		0420	53	13303.	1		1035	128	0.	1		1650	203	0.	1		2305	278	0.
1		0425	54	14494.	1		1040	129	0.	1		1655	204	0.	1		2310	279	0.
1		0430	55	15691.	1		1045	130	0.	1		1700	205	0.	1		2315	280	0.
1		0435	56	16869.	1		1050	131	0.	1		1705	206	0.	1		2320	281	0.
1		0440	57	17954.	1		1055	132	0.	1		1710	207	0.	1		2325	282	0.
1		0445	58	18827.	1		1100	133	0.	1		1715	208	0.	1		2330	283	0.
1		0450	59	19449.	1		1105	134	0.	1		1720	209	0.	1		2335	284	0.
1		0455	60	19771.	1		1110	135	0.	1		1725	210	0.	1		2340	285	0.
1		0500	61	19713.	1		1115	136	0.	1		1730	211	0.	1		2345	286	0.
1		0505	62	19342.	1		1120	137	0.	1		1735	212	0.	1		2350	287	0.
1		0510	63	18795.	1		1125	138	0.	1		1740	213	0.	1		2355	288	0.
1		0515	64	18142.	1		1130	139	0.	1		1745	214	0.	2		0000	289	0.
1		0520	65	17417.	1		1135	140	0.	1		1750	215	0.	2		0005	290	0.
1		0525	66	16672.	1		1140	141	0.	1		1755	216	0.	2		0010	291	0.
1		0530	67	15950.	1		1145	142	0.	1		1800	217	0.	2		0015	292	0.
1		0535	68	15278.	1		1150	143	0.	1		1805	218	0.	2		0020	293	0.
1		0540	69	14678.	1		1155	144	0.	1		1810	219	0.	2		0025	294	0.
1		0545	70	14156.	1		1200	145	0.	1		1815	220	0.	2		0030	295	0.
1		0550	71	13705.	1		1205	146	0.	1		1820	221	0.	2		0035	296	0.
1		0555	72	13291.	1		1210	147	0.	1		1825	222	0.	2		0040	297	0.
1		0600	73	12873.	1		1215	148	0.	1		1830	223	0.	2		0045	298	0.
1		0605	74	12410.	1		1220	149	0.	1		1835	224	0.	2		0050	299	0.
1		0610	75	11872.	1		1225	150	0.	1		1840	225	0.	2		0055	300	0.

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 19771.	4.92	8227.	2086.	2009.	2009.
		(INCHES) 1.397	1.417	1.417	1.417
		(AC-FT) 4079.	4137.	4137.	4137.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .76

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	10530.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	9864.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	9128.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	8346.	1		1245	154	0.	1		1900	229	0.
1		0020	5	1.	1		0635	80	7545.	1		1250	155	0.	1		1905	230	0.
1		0025	6	8.	1		0640	81	6755.	1		1255	156	0.	1		1910	231	0.
1		0030	7	25.	1		0645	82	5998.	1		1300	157	0.	1		1915	232	0.
1		0035	8	40.	1		0650	83	5295.	1		1305	158	0.	1		1920	233	0.
1		0040	9	47.	1		0655	84	4654.	1		1310	159	0.	1		1925	234	0.
1		0045	10	49.	1		0700	85	4078.	1		1315	160	0.	1		1930	235	0.
1		0050	11	53.	1		0705	86	3565.	1		1320	161	0.	1		1935	236	0.
1		0055	12	60.	1		0710	87	3109.	1		1325	162	0.	1		1940	237	0.
1		0100	13	70.	1		0715	88	2704.	1		1330	163	0.	1		1945	238	0.
1		0105	14	82.	1		0720	89	2344.	1		1335	164	0.	1		1950	239	0.
1		0110	15	100.	1		0725	90	2024.	1		1340	165	0.	1		1955	240	0.
1		0115	16	125.	1		0730	91	1740.	1		1345	166	0.	1		2000	241	0.
1		0120	17	158.	1		0735	92	1489.	1		1350	167	0.	1		2005	242	0.
1		0125	18	200.	1		0740	93	1266.	1		1355	168	0.	1		2010	243	0.
1		0130	19	253.	1		0745	94	1071.	1		1400	169	0.	1		2015	244	0.
1		0135	20	318.	1		0750	95	902.	1		1405	170	0.	1		2020	245	0.
1		0140	21	390.	1		0755	96	756.	1		1410	171	0.	1		2025	246	0.
1		0145	22	468.	1		0800	97	631.	1		1415	172	0.	1		2030	247	0.
1		0150	23	548.	1		0805	98	525.	1		1420	173	0.	1		2035	248	0.
1		0155	24	635.	1		0810	99	436.	1		1425	174	0.	1		2040	249	0.
1		0200	25	738.	1		0815	100	361.	1		1430	175	0.	1		2045	250	0.
1		0205	26	856.	1		0820	101	299.	1		1435	176	0.	1		2050	251	0.
1		0210	27	972.	1		0825	102	247.	1		1440	177	0.	1		2055	252	0.
1		0215	28	1079.	1		0830	103	204.	1		1445	178	0.	1		2100	253	0.
1		0220	29	1178.	1		0835	104	168.	1		1450	179	0.	1		2105	254	0.
1		0225	30	1280.	1		0840	105	138.	1		1455	180	0.	1		2110	255	0.
1		0230	31	1400.	1		0845	106	114.	1		1500	181	0.	1		2115	256	0.
1		0235	32	1535.	1		0850	107	94.	1		1505	182	0.	1		2120	257	0.
1		0240	33	1678.	1		0855	108	77.	1		1510	183	0.	1		2125	258	0.
1		0245	34	1829.	1		0900	109	63.	1		1515	184	0.	1		2130	259	0.
1		0250	35	1996.	1		0905	110	51.	1		1520	185	0.	1		2135	260	0.
1		0255	36	2184.	1		0910	111	41.	1		1525	186	0.	1		2140	261	0.
1		0300	37	2396.	1		0915	112	33.	1		1530	187	0.	1		2145	262	0.
1		0305	38	2631.	1		0920	113	26.	1		1535	188	0.	1		2150	263	0.
1		0310	39	2891.	1		0925	114	20.	1		1540	189	0.	1		2155	264	0.
1		0315	40	3211.	1		0930	115	16.	1		1545	190	0.	1		2200	265	0.
1		0320	41	3587.	1		0935	116	12.	1		1550	191	0.	1		2205	266	0.
1		0325	42	4039.	1		0940	117	9.	1		1555	192	0.	1		2210	267	0.
1		0330	43	4659.	1		0945	118	7.	1		1600	193	0.	1		2215	268	0.
1		0335	44	5338.	1		0950	119	5.	1		1605	194	0.	1		2220	269	0.
1		0340	45	5792.	1		0955	120	4.	1		1610	195	0.	1		2225	270	0.
1		0345	46	6133.	1		1000	121	3.	1		1615	196	0.	1		2230	271	0.
1		0350	47	6658.	1		1005	122	2.	1		1620	197	0.	1		2235	272	0.
1		0355	48	7424.	1		1010	123	2.	1		1625	198	0.	1		2240	273	0.
1		0400	49	8288.	1		1015	124	1.	1		1630	199	0.	1		2245	274	0.
1		0405	50	9175.	1		1020	125	1.	1		1635	200	0.	1		2250	275	0.
1		0410	51	10126.	1		1025	126	1.	1		1640	201	0.	1		2255	276	0.
1		0415	52	11160.	1		1030	127	1.	1		1645	202	0.	1		2300	277	0.
1		0420	53	12253.	1		1035	128	0.	1		1650	203	0.	1		2305	278	0.
1		0425	54	13366.	1		1040	129	0.	1		1655	204	0.	1		2310	279	0.
1		0430	55	14486.	1		1045	130	0.	1		1700	205	0.	1		2315	280	0.
1		0435	56	15591.	1		1050	131	0.	1		1705	206	0.	1		2320	281	0.
1		0440	57	16609.	1		1055	132	0.	1		1710	207	0.	1		2325	282	0.
1		0445	58	17435.	1		1100	133	0.	1		1715	208	0.	1		2330	283	0.
1		0450	59	18028.	1		1105	134	0.	1		1720	209	0.	1		2335	284	0.
1		0455	60	18344.	1		1110	135	0.	1		1725	210	0.	1		2340	285	0.
1		0500	61	18305.	1		1115	136	0.	1		1730	211	0.	1		2345	286	0.
1		0505	62	17972.	1		1120	137	0.	1		1735	212	0.	1		2350	287	0.
1		0510	63	17473.	1		1125	138	0.	1		1740	213	0.	1		2355	288	0.
1		0515	64	16877.	1		1130	139	0.	1		1745	214	0.	2		0000	289	0.
1		0520	65	16213.	1		1135	140	0.	1		1750	215	0.	2		0005	290	0.
1		0525	66	15530.	1		1140	141	0.	1		1755	216	0.	2		0010	291	0.
1		0530	67	14867.	1		1145	142	0.	1		1800	217	0.	2		0015	292	0.

1	0535	68	14251.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.					
1	0540	69	13699.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.					
1	0545	70	13220.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.					
1	0550	71	12805.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.					
1	0555	72	12425.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.					
1	0600	73	12040.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.					
1	0605	74	11612.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.					
1	0610	75	11113.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.					
				*					*					*									

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
	(CFS)				
+ 18344.	4.92	7609.	1928.	1857.	1857.
	(INCHES)	1.293	1.310	1.310	1.310
	(AC-FT)	3773.	3823.	3823.	3823.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .73

DA MON HRMN	ORD	FLOW	*	DA MON HRMN	ORD	FLOW	*	DA MON HRMN	ORD	FLOW	*	DA MON HRMN	ORD	FLOW
1 0000	1	0.	*	1 0615	76	9797.	*	1 1230	151	0.	*	1 1845	226	0.
1 0005	2	0.	*	1 0620	77	9180.	*	1 1235	152	0.	*	1 1850	227	0.
1 0010	3	0.	*	1 0625	78	8498.	*	1 1240	153	0.	*	1 1855	228	0.
1 0015	4	0.	*	1 0630	79	7772.	*	1 1245	154	0.	*	1 1900	229	0.
1 0020	5	0.	*	1 0635	80	7028.	*	1 1250	155	0.	*	1 1905	230	0.
1 0025	6	5.	*	1 0640	81	6293.	*	1 1255	156	0.	*	1 1910	231	0.
1 0030	7	18.	*	1 0645	82	5589.	*	1 1300	157	0.	*	1 1915	232	0.
1 0035	8	31.	*	1 0650	83	4935.	*	1 1305	158	0.	*	1 1920	233	0.
1 0040	9	37.	*	1 0655	84	4338.	*	1 1310	159	0.	*	1 1925	234	0.
1 0045	10	39.	*	1 0700	85	3802.	*	1 1315	160	0.	*	1 1930	235	0.
1 0050	11	40.	*	1 0705	86	3324.	*	1 1320	161	0.	*	1 1935	236	0.
1 0055	12	45.	*	1 0710	87	2899.	*	1 1325	162	0.	*	1 1940	237	0.
1 0100	13	51.	*	1 0715	88	2522.	*	1 1330	163	0.	*	1 1945	238	0.
1 0105	14	60.	*	1 0720	89	2186.	*	1 1335	164	0.	*	1 1950	239	0.
1 0110	15	72.	*	1 0725	90	1888.	*	1 1340	165	0.	*	1 1955	240	0.
1 0115	16	91.	*	1 0730	91	1624.	*	1 1345	166	0.	*	1 2000	241	0.
1 0120	17	116.	*	1 0735	92	1389.	*	1 1350	167	0.	*	1 2005	242	0.
1 0125	18	148.	*	1 0740	93	1182.	*	1 1355	168	0.	*	1 2010	243	0.
1 0130	19	190.	*	1 0745	94	1000.	*	1 1400	169	0.	*	1 2015	244	0.
1 0135	20	241.	*	1 0750	95	842.	*	1 1405	170	0.	*	1 2020	245	0.
1 0140	21	299.	*	1 0755	96	705.	*	1 1410	171	0.	*	1 2025	246	0.
1 0145	22	362.	*	1 0800	97	589.	*	1 1415	172	0.	*	1 2030	247	0.
1 0150	23	427.	*	1 0805	98	490.	*	1 1420	173	0.	*	1 2035	248	0.
1 0155	24	499.	*	1 0810	99	407.	*	1 1425	174	0.	*	1 2040	249	0.
1 0200	25	586.	*	1 0815	100	337.	*	1 1430	175	0.	*	1 2045	250	0.
1 0205	26	686.	*	1 0820	101	279.	*	1 1435	176	0.	*	1 2050	251	0.
1 0210	27	788.	*	1 0825	102	231.	*	1 1440	177	0.	*	1 2055	252	0.
1 0215	28	882.	*	1 0830	103	190.	*	1 1445	178	0.	*	1 2100	253	0.
1 0220	29	971.	*	1 0835	104	157.	*	1 1450	179	0.	*	1 2105	254	0.
1 0225	30	1064.	*	1 0840	105	129.	*	1 1455	180	0.	*	1 2110	255	0.
1 0230	31	1172.	*	1 0845	106	106.	*	1 1500	181	0.	*	1 2115	256	0.
1 0235	32	1295.	*	1 0850	107	87.	*	1 1505	182	0.	*	1 2120	257	0.
1 0240	33	1426.	*	1 0855	108	72.	*	1 1510	183	0.	*	1 2125	258	0.
1 0245	34	1563.	*	1 0900	109	59.	*	1 1515	184	0.	*	1 2130	259	0.
1 0250	35	1716.	*	1 0905	110	48.	*	1 1520	185	0.	*	1 2135	260	0.
1 0255	36	1888.	*	1 0910	111	38.	*	1 1525	186	0.	*	1 2140	261	0.
1 0300	37	2082.	*	1 0915	112	31.	*	1 1530	187	0.	*	1 2145	262	0.
1 0305	38	2296.	*	1 0920	113	24.	*	1 1535	188	0.	*	1 2150	263	0.
1 0310	39	2534.	*	1 0925	114	19.	*	1 1540	189	0.	*	1 2155	264	0.
1 0315	40	2827.	*	1 0930	115	15.	*	1 1545	190	0.	*	1 2200	265	0.
1 0320	41	3173.	*	1 0935	116	11.	*	1 1550	191	0.	*	1 2205	266	0.
1 0325	42	3590.	*	1 0940	117	9.	*	1 1555	192	0.	*	1 2210	267	0.
1 0330	43	4162.	*	1 0945	118	7.	*	1 1600	193	0.	*	1 2215	268	0.
1 0335	44	4792.	*	1 0950	119	5.	*	1 1605	194	0.	*	1 2220	269	0.
1 0340	45	5218.	*	1 0955	120	4.	*	1 1610	195	0.	*	1 2225	270	0.
1 0345	46	5535.	*	1 1000	121	3.	*	1 1615	196	0.	*	1 2230	271	0.
1 0350	47	6016.	*	1 1005	122	2.	*	1 1620	197	0.	*	1 2235	272	0.
1 0355	48	6722.	*	1 1010	123	2.	*	1 1625	198	0.	*	1 2240	273	0.
1 0400	49	7521.	*	1 1015	124	1.	*	1 1630	199	0.	*	1 2245	274	0.
1 0405	50	8341.	*	1 1020	125	1.	*	1 1635	200	0.	*	1 2250	275	0.
1 0410	51	9220.	*	1 1025	126	1.	*	1 1640	201	0.	*	1 2255	276	0.
1 0415	52	10177.	*	1 1030	127	0.	*	1 1645	202	0.	*	1 2300	277	0.
1 0420	53	11189.	*	1 1035	128	0.	*	1 1650	203	0.	*	1 2305	278	0.
1 0425	54	12220.	*	1 1040	129	0.	*	1 1655	204	0.	*	1 2310	279	0.
1 0430	55	13261.	*	1 1045	130	0.	*	1 1700	205	0.	*	1 2315	280	0.
1 0435	56	14290.	*	1 1050	131	0.	*	1 1705	206	0.	*	1 2320	281	0.
1 0440	57	15243.	*	1 1055	132	0.	*	1 1710	207	0.	*	1 2325	282	0.
1 0445	58	16019.	*	1 1100	133	0.	*	1 1715	208	0.	*	1 2330	283	0.
1 0450	59	16580.	*	1 1105	134	0.	*	1 1720	209	0.	*	1 2335	284	0.
1 0455	60	16886.	*	1 1110	135	0.	*	1 1725	210	0.	*	1 2340	285	0.
1 0500	61	16865.	*	1 1115	136	0.	*	1 1730	211	0.	*	1 2345	286	0.
1 0505	62	16573.	*	1 1120	137	0.	*	1 1735	212	0.	*	1 2350	287	0.

1	0510	63	16125.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.					
1	0515	64	15586.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.					
1	0520	65	14985.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.					
1	0525	66	14364.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.					
1	0530	67	13761.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.					
1	0535	68	13200.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.					
1	0540	69	12698.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.					
1	0545	70	12262.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.					
1	0550	71	11885.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.					
1	0555	72	11539.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.					
1	0600	73	11188.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.					
1	0605	74	10795.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.					
1	0610	75	10336.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.					
				*					*					*									

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
	(CFS)				
+ 16886.	4.92	6985.	1767.	1702.	1702.
	(INCHES)	1.186	1.201	1.201	1.201
	(AC-FT)	3463.	3506.	3506.	3506.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .69

DA MON HRMN	ORD	FLOW	*	DA MON HRMN	ORD	FLOW	*	DA MON HRMN	ORD	FLOW	*	DA MON HRMN	ORD	FLOW
1 0000	1	0.	*	1 0615	76	9250.	*	1 1230	151	0.	*	1 1845	226	0.
1 0005	2	0.	*	1 0620	77	8669.	*	1 1235	152	0.	*	1 1850	227	0.
1 0010	3	0.	*	1 0625	78	8027.	*	1 1240	153	0.	*	1 1855	228	0.
1 0015	4	0.	*	1 0630	79	7342.	*	1 1245	154	0.	*	1 1900	229	0.
1 0020	5	0.	*	1 0635	80	6641.	*	1 1250	155	0.	*	1 1905	230	0.
1 0025	6	4.	*	1 0640	81	5947.	*	1 1255	156	0.	*	1 1910	231	0.
1 0030	7	14.	*	1 0645	82	5283.	*	1 1300	157	0.	*	1 1915	232	0.
1 0035	8	25.	*	1 0650	83	4665.	*	1 1305	158	0.	*	1 1920	233	0.
1 0040	9	30.	*	1 0655	84	4101.	*	1 1310	159	0.	*	1 1925	234	0.
1 0045	10	32.	*	1 0700	85	3594.	*	1 1315	160	0.	*	1 1930	235	0.
1 0050	11	33.	*	1 0705	86	3143.	*	1 1320	161	0.	*	1 1935	236	0.
1 0055	12	36.	*	1 0710	87	2742.	*	1 1325	162	0.	*	1 1940	237	0.
1 0100	13	40.	*	1 0715	88	2385.	*	1 1330	163	0.	*	1 1945	238	0.
1 0105	14	46.	*	1 0720	89	2068.	*	1 1335	164	0.	*	1 1950	239	0.
1 0110	15	55.	*	1 0725	90	1786.	*	1 1340	165	0.	*	1 1955	240	0.
1 0115	16	70.	*	1 0730	91	1536.	*	1 1345	166	0.	*	1 2000	241	0.
1 0120	17	89.	*	1 0735	92	1314.	*	1 1350	167	0.	*	1 2005	242	0.
1 0125	18	115.	*	1 0740	93	1118.	*	1 1355	168	0.	*	1 2010	243	0.
1 0130	19	149.	*	1 0745	94	946.	*	1 1400	169	0.	*	1 2015	244	0.
1 0135	20	191.	*	1 0750	95	796.	*	1 1405	170	0.	*	1 2020	245	0.
1 0140	21	239.	*	1 0755	96	667.	*	1 1410	171	0.	*	1 2025	246	0.
1 0145	22	291.	*	1 0800	97	557.	*	1 1415	172	0.	*	1 2030	247	0.
1 0150	23	346.	*	1 0805	98	464.	*	1 1420	173	0.	*	1 2035	248	0.
1 0155	24	408.	*	1 0810	99	385.	*	1 1425	174	0.	*	1 2040	249	0.
1 0200	25	483.	*	1 0815	100	319.	*	1 1430	175	0.	*	1 2045	250	0.
1 0205	26	571.	*	1 0820	101	264.	*	1 1435	176	0.	*	1 2050	251	0.
1 0210	27	661.	*	1 0825	102	219.	*	1 1440	177	0.	*	1 2055	252	0.
1 0215	28	746.	*	1 0830	103	180.	*	1 1445	178	0.	*	1 2100	253	0.
1 0220	29	828.	*	1 0835	104	149.	*	1 1450	179	0.	*	1 2105	254	0.
1 0225	30	913.	*	1 0840	105	122.	*	1 1455	180	0.	*	1 2110	255	0.
1 0230	31	1012.	*	1 0845	106	101.	*	1 1500	181	0.	*	1 2115	256	0.
1 0235	32	1125.	*	1 0850	107	83.	*	1 1505	182	0.	*	1 2120	257	0.
1 0240	33	1245.	*	1 0855	108	68.	*	1 1510	183	0.	*	1 2125	258	0.
1 0245	34	1373.	*	1 0900	109	55.	*	1 1515	184	0.	*	1 2130	259	0.
1 0250	35	1515.	*	1 0905	110	45.	*	1 1520	185	0.	*	1 2135	260	0.
1 0255	36	1674.	*	1 0910	111	36.	*	1 1525	186	0.	*	1 2140	261	0.
1 0300	37	1854.	*	1 0915	112	29.	*	1 1530	187	0.	*	1 2145	262	0.
1 0305	38	2054.	*	1 0920	113	23.	*	1 1535	188	0.	*	1 2150	263	0.
1 0310	39	2277.	*	1 0925	114	18.	*	1 1540	189	0.	*	1 2155	264	0.
1 0315	40	2551.	*	1 0930	115	14.	*	1 1545	190	0.	*	1 2200	265	0.
1 0320	41	2874.	*	1 0935	116	11.	*	1 1550	191	0.	*	1 2205	266	0.
1 0325	42	3262.	*	1 0940	117	8.	*	1 1555	192	0.	*	1 2210	267	0.
1 0330	43	3794.	*	1 0945	118	6.	*	1 1600	193	0.	*	1 2215	268	0.
1 0335	44	4391.	*	1 0950	119	5.	*	1 1605	194	0.	*	1 2220	269	0.
1 0340	45	4794.	*	1 0955	120	4.	*	1 1610	195	0.	*	1 2225	270	0.
1 0345	46	5089.	*	1 1000	121	3.	*	1 1615	196	0.	*	1 2230	271	0.
1 0350	47	5543.	*	1 1005	122	2.	*	1 1620	197	0.	*	1 2235	272	0.
1 0355	48	6206.	*	1 1010	123	2.	*	1 1625	198	0.	*	1 2240	273	0.
1 0400	49	6955.	*	1 1015	124	1.	*	1 1630	199	0.	*	1 2245	274	0.
1 0405	50	7725.	*	1 1020	125	1.	*	1 1635	200	0.	*	1 2250	275	0.
1 0410	51	8550.	*	1 1025	126	1.	*	1 1640	201	0.	*	1 2255	276	0.
1 0415	52	9449.	*	1 1030	127	0.	*	1 1645	202	0.	*	1 2300	277	0.
1 0420	53	10401.	*	1 1035	128	0.	*	1 1650	203	0.	*	1 2305	278	0.
1 0425	54	11373.	*	1 1040	129	0.	*	1 1655	204	0.	*	1 2310	279	0.
1 0430	55	12353.	*	1 1045	130	0.	*	1 1700	205	0.	*	1 2315	280	0.
1 0435	56	13325.	*	1 1050	131	0.	*	1 1705	206	0.	*	1 2320	281	0.
1 0440	57	14227.	*	1 1055	132	0.	*	1 1710	207	0.	*	1 2325	282	0.

1	0445	58	14965.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.					
1	0450	59	15503.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.					
1	0455	60	15802.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.					
1	0500	61	15796.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.					
1	0505	62	15530.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.					
1	0510	63	15121.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.					
1	0515	64	14624.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.					
1	0520	65	14068.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.					
1	0525	66	13493.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.					
1	0530	67	12935.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.					
1	0535	68	12415.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.					
1	0540	69	11950.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.					
1	0545	70	11546.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.					
1	0550	71	11197.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.					
1	0555	72	10877.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.					
1	0600	73	10550.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.					
1	0605	74	10185.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.					
1	0610	75	9755.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.					

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 15802.	4.92		6522.	1649.	1588.	1588.
		(INCHES)	1.108	1.120	1.120	1.120
		(AC-FT)	3234.	3271.	3271.	3271.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .64

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	0000		1	0.	1	0615		76	8247.	1	1230		151	0.	1	1845		226	0.
1	0005		2	0.	1	0620		77	7734.	1	1235		152	0.	1	1850		227	0.
1	0010		3	0.	1	0625		78	7164.	1	1240		153	0.	1	1855		228	0.
1	0015		4	0.	1	0630		79	6556.	1	1245		154	0.	1	1900		229	0.
1	0020		5	0.	1	0635		80	5932.	1	1250		155	0.	1	1905		230	0.
1	0025		6	2.	1	0640		81	5314.	1	1255		156	0.	1	1910		231	0.
1	0030		7	7.	1	0645		82	4722.	1	1300		157	0.	1	1915		232	0.
1	0035		8	15.	1	0650		83	4171.	1	1305		158	0.	1	1920		233	0.
1	0040		9	20.	1	0655		84	3668.	1	1310		159	0.	1	1925		234	0.
1	0045		10	22.	1	0700		85	3215.	1	1315		160	0.	1	1930		235	0.
1	0050		11	22.	1	0705		86	2812.	1	1320		161	0.	1	1935		236	0.
1	0055		12	23.	1	0710		87	2454.	1	1325		162	0.	1	1940		237	0.
1	0100		13	24.	1	0715		88	2135.	1	1330		163	0.	1	1945		238	0.
1	0105		14	27.	1	0720		89	1852.	1	1335		164	0.	1	1950		239	0.
1	0110		15	31.	1	0725		90	1600.	1	1340		165	0.	1	1955		240	0.
1	0115		16	39.	1	0730		91	1376.	1	1345		166	0.	1	2000		241	0.
1	0120		17	51.	1	0735		92	1177.	1	1350		167	0.	1	2005		242	0.
1	0125		18	67.	1	0740		93	1002.	1	1355		168	0.	1	2010		243	0.
1	0130		19	89.	1	0745		94	848.	1	1400		169	0.	1	2015		244	0.
1	0135		20	117.	1	0750		95	714.	1	1405		170	0.	1	2020		245	0.
1	0140		21	149.	1	0755		96	598.	1	1410		171	0.	1	2025		246	0.
1	0145		22	184.	1	0800		97	500.	1	1415		172	0.	1	2030		247	0.
1	0150		23	222.	1	0805		98	416.	1	1420		173	0.	1	2035		248	0.
1	0155		24	266.	1	0810		99	345.	1	1425		174	0.	1	2040		249	0.
1	0200		25	321.	1	0815		100	286.	1	1430		175	0.	1	2045		250	0.
1	0205		26	387.	1	0820		101	237.	1	1435		176	0.	1	2050		251	0.
1	0210		27	456.	1	0825		102	196.	1	1440		177	0.	1	2055		252	0.
1	0215		28	523.	1	0830		103	162.	1	1445		178	0.	1	2100		253	0.
1	0220		29	589.	1	0835		104	133.	1	1450		179	0.	1	2105		254	0.
1	0225		30	659.	1	0840		105	110.	1	1455		180	0.	1	2110		255	0.
1	0230		31	741.	1	0845		106	90.	1	1500		181	0.	1	2115		256	0.
1	0235		32	836.	1	0850		107	74.	1	1505		182	0.	1	2120		257	0.
1	0240		33	937.	1	0855		108	61.	1	1510		183	0.	1	2125		258	0.
1	0245		34	1046.	1	0900		109	50.	1	1515		184	0.	1	2130		259	0.
1	0250		35	1166.	1	0905		110	40.	1	1520		185	0.	1	2135		260	0.
1	0255		36	1303.	1	0910		111	33.	1	1525		186	0.	1	2140		261	0.
1	0300		37	1458.	1	0915		112	26.	1	1530		187	0.	1	2145		262	0.
1	0305		38	1629.	1	0920		113	21.	1	1535		188	0.	1	2150		263	0.
1	0310		39	1821.	1	0925		114	16.	1	1540		189	0.	1	2155		264	0.
1	0315		40	2059.	1	0930		115	13.	1	1545		190	0.	1	2200		265	0.
1	0320		41	2343.	1	0935		116	10.	1	1550		191	0.	1	2205		266	0.
1	0325		42	2685.	1	0940		117	7.	1	1555		192	0.	1	2210		267	0.
1	0330		43	3156.	1	0945		118	6.	1	1600		193	0.	1	2215		268	0.
1	0335		44	3680.	1	0950		119	4.	1	1605		194	0.	1	2220		269	0.
1	0340		45	4041.	1	0955		120	3.	1	1610		195	0.	1	2225		270	0.
1	0345		46	4300.	1	1000		121	3.	1	1615		196	0.	1	2230		271	0.
1	0350		47	4693.	1	1005		122	2.	1	1620		197	0.	1	2235		272	0.
1	0355		48	5279.	1	1010		123	1.	1	1625		198	0.	1	2240		273	0.
1	0400		49	5939.	1	1015		124	1.	1	1630		199	0.	1	2245		274	0.
1	0405		50	6618.	1	1020		125	1.	1	1635		200	0.	1	2250		275	0.
1	0410		51	7345.	1	1025		126	1.	1	1640		201	0.	1	2255		276	0.
1	0415		52	8139.	1	1030		127	0.	1	1645		202	0.	1	2300		277	0.

1	0420	53	8981.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.					
1	0425	54	9843.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.					
1	0430	55	10715.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.					
1	0435	56	11581.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.					
1	0440	57	12391.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.					
1	0445	58	13059.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.					
1	0450	59	13552.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.					
1	0455	60	13837.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.					
1	0500	61	13851.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.					
1	0505	62	13637.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.					
1	0510	63	13295.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.					
1	0515	64	12875.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.					
1	0520	65	12401.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.					
1	0525	66	11910.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.					
1	0530	67	11433.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.					
1	0535	68	10986.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.					
1	0540	69	10587.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.					
1	0545	70	10241.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.					
1	0550	71	9943.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.					
1	0555	72	9668.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.					
1	0600	73	9386.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.					
1	0605	74	9069.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.					
1	0610	75	8692.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.					

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 13851.	5.00		5688.	1436.	1383.	1383.
		(INCHES)	.966	.976	.976	.976
		(AC-FT)	2821.	2848.	2848.	2848.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .58

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	0000		1	0.	1	0615		76	7160.	1	1230		151	0.	1	1845		226	0.
1	0005		2	0.	1	0620		77	6720.	1	1235		152	0.	1	1850		227	0.
1	0010		3	0.	1	0625		78	6230.	1	1240		153	0.	1	1855		228	0.
1	0015		4	0.	1	0630		79	5704.	1	1245		154	0.	1	1900		229	0.
1	0020		5	0.	1	0635		80	5163.	1	1250		155	0.	1	1905		230	0.
1	0025		6	1.	1	0640		81	4627.	1	1255		156	0.	1	1910		231	0.
1	0030		7	3.	1	0645		82	4114.	1	1300		157	0.	1	1915		232	0.
1	0035		8	7.	1	0650		83	3634.	1	1305		158	0.	1	1920		233	0.
1	0040		9	11.	1	0655		84	3197.	1	1310		159	0.	1	1925		234	0.
1	0045		10	13.	1	0700		85	2804.	1	1315		160	0.	1	1930		235	0.
1	0050		11	14.	1	0705		86	2453.	1	1320		161	0.	1	1935		236	0.
1	0055		12	15.	1	0710		87	2141.	1	1325		162	0.	1	1940		237	0.
1	0100		13	15.	1	0715		88	1864.	1	1330		163	0.	1	1945		238	0.
1	0105		14	15.	1	0720		89	1617.	1	1335		164	0.	1	1950		239	0.
1	0110		15	16.	1	0725		90	1397.	1	1340		165	0.	1	1955		240	0.
1	0115		16	19.	1	0730		91	1202.	1	1345		166	0.	1	2000		241	0.
1	0120		17	24.	1	0735		92	1028.	1	1350		167	0.	1	2005		242	0.
1	0125		18	33.	1	0740		93	875.	1	1355		168	0.	1	2010		243	0.
1	0130		19	45.	1	0745		94	741.	1	1400		169	0.	1	2015		244	0.
1	0135		20	61.	1	0750		95	624.	1	1405		170	0.	1	2020		245	0.
1	0140		21	79.	1	0755		96	523.	1	1410		171	0.	1	2025		246	0.
1	0145		22	100.	1	0800		97	437.	1	1415		172	0.	1	2030		247	0.
1	0150		23	122.	1	0805		98	364.	1	1420		173	0.	1	2035		248	0.
1	0155		24	149.	1	0810		99	302.	1	1425		174	0.	1	2040		249	0.
1	0200		25	185.	1	0815		100	251.	1	1430		175	0.	1	2045		250	0.
1	0205		26	229.	1	0820		101	207.	1	1435		176	0.	1	2050		251	0.
1	0210		27	277.	1	0825		102	172.	1	1440		177	0.	1	2055		252	0.
1	0215		28	323.	1	0830		103	142.	1	1445		178	0.	1	2100		253	0.
1	0220		29	370.	1	0835		104	117.	1	1450		179	0.	1	2105		254	0.
1	0225		30	422.	1	0840		105	96.	1	1455		180	0.	1	2110		255	0.
1	0230		31	485.	1	0845		106	79.	1	1500		181	0.	1	2115		256	0.
1	0235		32	557.	1	0850		107	65.	1	1505		182	0.	1	2120		257	0.
1	0240		33	638.	1	0855		108	53.	1	1510		183	0.	1	2125		258	0.
1	0245		34	724.	1	0900		109	44.	1	1515		184	0.	1	2130		259	0.
1	0250		35	821.	1	0905		110	35.	1	1520		185	0.	1	2135		260	0.
1	0255		36	932.	1	0910		111	29.	1	1525		186	0.	1	2140		261	0.
1	0300		37	1058.	1	0915		112	23.	1	1530		187	0.	1	2145		262	0.
1	0305		38	1200.	1	0920		113	18.	1	1535		188	0.	1	2150		263	0.
1	0310		39	1361.	1	0925		114	14.	1	1540		189	0.	1	2155		264	0.
1	0315		40	1559.	1	0930		115	11.	1	1545		190	0.	1	2200		265	0.
1	0320		41	1796.	1	0935		116	8.	1	1550		191	0.	1	2205		266	0.
1	0325		42	2088.	1	0940		117	6.	1	1555		192	0.	1	2210		267	0.
1	0330		43	2488.	1	0945		118	5.	1	1600		193	0.	1	2215		268	0.
1	0335		44	2939.	1	0950		119	4.	1	1605		194	0.	1	2220		269	0.
1	0340		45	3252.	1	0955		120	3.	1	1610		195	0.	1	2225		270	0.
1	0345		46	3474.	1	1000		121	2.	1	1615		196	0.	1	2230		271	0.
1	0350		47	3806.	1	1005		122	2.	1	1620		197	0.	1	2235		272	0.

DA	HRMN	ORD	FLOW	*	DA	HRMN	ORD	FLOW	*	DA	HRMN	ORD	FLOW	*	DA	HRMN	ORD	FLOW
1	0355	48	4304.	*	1	1010	123	1.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	4868.	*	1	1015	124	1.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	5450.	*	1	1020	125	1.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	6072.	*	1	1025	126	1.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	6752.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	7475.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	8216.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	8970.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	9725.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	10432.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	11023.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	11466.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	11733.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	11769.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	11608.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	11335.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	10995.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	10610.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	10206.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	9812.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	9445.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	9116.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	8832.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	8587.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	8360.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	8127.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	7860.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	7541.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
+ 11769.	5.00	(CFS)	4804.	1211.	1166.	1166.
		(INCHES)	.816	.823	.823	.823
		(AC-FT)	2382.	2402.	2402.	2402.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .53

DA MON	HRMN	ORD	FLOW	*	DA MON	HRMN	ORD	FLOW	*	DA MON	HRMN	ORD	FLOW	*	DA MON	HRMN	ORD	FLOW
1	0000	1	0.	*	1	0615	76	6263.	*	1	1230	151	0.	*	1	1845	226	0.
1	0005	2	0.	*	1	0620	77	5883.	*	1	1235	152	0.	*	1	1850	227	0.
1	0010	3	0.	*	1	0625	78	5457.	*	1	1240	153	0.	*	1	1855	228	0.
1	0015	4	0.	*	1	0630	79	4999.	*	1	1245	154	0.	*	1	1900	229	0.
1	0020	5	0.	*	1	0635	80	4527.	*	1	1250	155	0.	*	1	1905	230	0.
1	0025	6	0.	*	1	0640	81	4059.	*	1	1255	156	0.	*	1	1910	231	0.
1	0030	7	1.	*	1	0645	82	3610.	*	1	1300	157	0.	*	1	1915	232	0.
1	0035	8	3.	*	1	0650	83	3191.	*	1	1305	158	0.	*	1	1920	233	0.
1	0040	9	5.	*	1	0655	84	2808.	*	1	1310	159	0.	*	1	1925	234	0.
1	0045	10	7.	*	1	0700	85	2463.	*	1	1315	160	0.	*	1	1930	235	0.
1	0050	11	9.	*	1	0705	86	2155.	*	1	1320	161	0.	*	1	1935	236	0.
1	0055	12	9.	*	1	0710	87	1882.	*	1	1325	162	0.	*	1	1940	237	0.
1	0100	13	10.	*	1	0715	88	1639.	*	1	1330	163	0.	*	1	1945	238	0.
1	0105	14	9.	*	1	0720	89	1422.	*	1	1335	164	0.	*	1	1950	239	0.
1	0110	15	10.	*	1	0725	90	1229.	*	1	1340	165	0.	*	1	1955	240	0.
1	0115	16	11.	*	1	0730	91	1057.	*	1	1345	166	0.	*	1	2000	241	0.
1	0120	17	13.	*	1	0735	92	905.	*	1	1350	167	0.	*	1	2005	242	0.
1	0125	18	17.	*	1	0740	93	771.	*	1	1355	168	0.	*	1	2010	243	0.
1	0130	19	24.	*	1	0745	94	652.	*	1	1400	169	0.	*	1	2015	244	0.
1	0135	20	32.	*	1	0750	95	549.	*	1	1405	170	0.	*	1	2020	245	0.
1	0140	21	43.	*	1	0755	96	461.	*	1	1410	171	0.	*	1	2025	246	0.
1	0145	22	54.	*	1	0800	97	385.	*	1	1415	172	0.	*	1	2030	247	0.
1	0150	23	67.	*	1	0805	98	321.	*	1	1420	173	0.	*	1	2035	248	0.
1	0155	24	82.	*	1	0810	99	266.	*	1	1425	174	0.	*	1	2040	249	0.
1	0200	25	105.	*	1	0815	100	221.	*	1	1430	175	0.	*	1	2045	250	0.
1	0205	26	134.	*	1	0820	101	183.	*	1	1435	176	0.	*	1	2050	251	0.
1	0210	27	165.	*	1	0825	102	151.	*	1	1440	177	0.	*	1	2055	252	0.
1	0215	28	196.	*	1	0830	103	125.	*	1	1445	178	0.	*	1	2100	253	0.
1	0220	29	227.	*	1	0835	104	103.	*	1	1450	179	0.	*	1	2105	254	0.
1	0225	30	263.	*	1	0840	105	85.	*	1	1455	180	0.	*	1	2110	255	0.
1	0230	31	308.	*	1	0845	106	70.	*	1	1500	181	0.	*	1	2115	256	0.
1	0235	32	362.	*	1	0850	107	57.	*	1	1505	182	0.	*	1	2120	257	0.
1	0240	33	423.	*	1	0855	108	47.	*	1	1510	183	0.	*	1	2125	258	0.
1	0245	34	491.	*	1	0900	109	38.	*	1	1515	184	0.	*	1	2130	259	0.
1	0250	35	568.	*	1	0905	110	31.	*	1	1520	185	0.	*	1	2135	260	0.
1	0255	36	656.	*	1	0910	111	25.	*	1	1525	186	0.	*	1	2140	261	0.
1	0300	37	758.	*	1	0915	112	20.	*	1	1530	187	0.	*	1	2145	262	0.
1	0305	38	875.	*	1	0920	113	16.	*	1	1535	188	0.	*	1	2150	263	0.
1	0310	39	1008.	*	1	0925	114	12.	*	1	1540	189	0.	*	1	2155	264	0.
1	0315	40	1176.	*	1	0930	115	10.	*	1	1545	190	0.	*	1	2200	265	0.
1	0320	41	1377.	*	1	0935	116	7.	*	1	1550	191	0.	*	1	2205	266	0.
1	0325	42	1621.	*	1	0940	117	6.	*	1	1555	192	0.	*	1	2210	267	0.

DA	HRMN	ORD	FLOW	*	DA	HRMN	ORD	FLOW	*	DA	HRMN	ORD	FLOW	*	DA	HRMN	ORD	FLOW
1	0330	43	1963.	*	1	0945	118	4.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	2352.	*	1	0950	119	3.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	2623.	*	1	0955	120	3.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	2814.	*	1	1000	121	2.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	3104.	*	1	1005	122	2.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	3530.	*	1	1010	123	1.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	4013.	*	1	1015	124	1.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	4515.	*	1	1020	125	1.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	5051.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	5635.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	6261.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	6906.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	7563.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	8221.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	8844.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	9371.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	9771.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	10020.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	10071.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	9952.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	9735.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	9459.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	9142.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	8809.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	8484.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	8180.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	7908.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	7673.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	7470.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	7283.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	7088.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	6863.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	6590.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
+ 10071.	5.00	(CFS)	4091.	1030.	992.	992.
		(INCHES)	.695	.700	.700	.700
		(AC-FT)	2029.	2042.	2042.	2042.

CUMULATIVE AREA = 54.73 SQ MI

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227 KK RRDB

240 KO OUTPUT CONTROL VARIABLES
IPRNT 1 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE

HYDROGRAPH ROUTING DATA

241 RS STORAGE ROUTING
NSTPS 1 NUMBER OF SUBREACHES
ITYP STOR TYPE OF INITIAL CONDITION
RSVRIC -1.00 INITIAL CONDITION
X .00 WORKING R AND D COEFFICIENT

242 SV STORAGE	.0	9.0	107.0	231.0	372.0	529.0	705.0	903.0	1125.0	1376.0
	1659.0	1974.0	2007.0	2115.0	2331.0	2690.0	2933.0			
244 SQ DISCHARGE	0.	10.	57.	80.	99.	114.	128.	140.	151.	162.
	171.	181.	182.	8654.	33270.	110918.	163477.			
246 SE ELEVATION	3161.00	3162.00	3167.00	3172.00	3177.00	3182.00	3187.00	3192.00	3197.00	3202.00
	3207.00	3212.00	3212.50	3214.00	3217.00	3222.00	3225.00			

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HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .83

DA MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000	1	0.	.0	3161.0	*	1	0820	101	503.	2011.1	3212.6	*	1	1640	201	178.	1893.2	3210.7
1	0005	2	0.	.0	3161.0	*	1	0825	102	418.	2010.0	3212.5	*	1	1645	202	178.	1892.0	3210.7
1	0010	3	0.	.0	3161.0	*	1	0830	103	347.	2009.1	3212.5	*	1	1650	203	178.	1890.8	3210.7

| | | |

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE		DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE		DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0450	59		169.	1587.3	3205.7	*	1	1310	159		180.	1944.8	3211.5	*	1	2130	259		176.	1822.2	3209.6
1	0455	60		173.	1721.2	3208.0	*	1	1315	160		180.	1943.6	3211.5	*	1	2135	260		176.	1820.9	3209.6
1	0500	61		177.	1856.0	3210.1	*	1	1320	161		180.	1942.3	3211.5	*	1	2140	261		176.	1819.7	3209.6
1	0505	62		181.	1989.2	3212.2	*	1	1325	162		180.	1941.1	3211.5	*	1	2145	262		176.	1818.5	3209.5
1	0510	63		7118.	2095.4	3213.7	*	1	1330	163		180.	1939.9	3211.5	*	1	2150	263		176.	1817.3	3209.5
1	0515	64		13016.	2153.3	3214.5	*	1	1335	164		180.	1938.6	3211.4	*	1	2155	264		176.	1816.1	3209.5
1	0520	65		15701.	2176.8	3214.9	*	1	1340	165		180.	1937.4	3211.4	*	1	2200	265		176.	1814.9	3209.5
1	0525	66		16458.	2183.5	3215.0	*	1	1345	166		180.	1936.1	3211.4	*	1	2205	266		176.	1813.7	3209.5
1	0530	67		16375.	2182.8	3214.9	*	1	1350	167		180.	1934.9	3211.4	*	1	2210	267		176.	1812.5	3209.4
1	0535	68		15946.	2179.0	3214.9	*	1	1355	168		180.	1933.7	3211.4	*	1	2215	268		176.	1811.2	3209.4
1	0540	69		15400.	2174.2	3214.8	*	1	1400	169		180.	1932.4	3211.3	*	1	2220	269		176.	1810.0	3209.4
1	0545	70		14846.	2169.3	3214.8	*	1	1405	170		180.	1931.2	3211.3	*	1	2225	270		176.	1808.8	3209.4
1	0550	71		14330.	2164.8	3214.7	*	1	1410	171		180.	1930.0	3211.3	*	1	2230	271		176.	1807.6	3209.4
1	0555	72		13861.	2160.7	3214.6	*	1	1415	172		180.	1928.7	3211.3	*	1	2235	272		176.	1806.4	3209.3
1	0600	73		13422.	2156.8	3214.6	*	1	1420	173		180.	1927.5	3211.3	*	1	2240	273		176.	1805.2	3209.3
1	0605	74		12982.	2153.0	3214.5	*	1	1425	174		179.	1926.3	3211.2	*	1	2245	274		176.	1804.0	3209.3
1	0610	75		12508.	2148.8	3214.5	*	1	1430	175		179.	1925.0	3211.2	*	1	2250	275		176.	1802.8	3209.3
1	0615	76		11973.	2144.1	3214.4	*	1	1435	176		179.	1923.8	3211.2	*	1	2255	276		176.	1801.6	3209.3
1	0620	77		11362.	2138.8	3214.3	*	1	1440	177		179.	1922.5	3211.2	*	1	2300	277		175.	1800.4	3209.2
1	0625	78		10671.	2132.7	3214.2	*	1	1445	178		179.	1921.3	3211.2	*	1	2305	278		175.	1799.1	3209.2
1	0630	79		9912.	2126.0	3214.2	*	1	1450	179		179.	1920.1	3211.1	*	1	2310	279		175.	1797.9	3209.2
1	0635	80		9104.	2118.9	3214.1	*	1	1455	180		179.	1918.8	3211.1	*	1	2315	280		175.	1796.7	3209.2
1	0640	81		8366.	2111.3	3213.9	*	1	1500	181		179.	1917.6	3211.1	*	1	2320	281		175.	1795.5	3209.2
1	0645	82		7700.	2102.8	3213.8	*	1	1505	182		179.	1916.4	3211.1	*	1	2325	282		175.	1794.3	3209.1
1	0650	83		6987.	2093.7	3213.7	*	1	1510	183		179.	1915.1	3211.1	*	1	2330	283		175.	1793.1	3209.1
1	0655	84		6271.	2084.6	3213.6	*	1	1515	184		179.	1913.9	3211.0	*	1	2335	284		175.	1791.9	3209.1
1	0700	85		5584.	2075.9	3213.5	*	1	1520	185		179.	1912.7	3211.0	*	1	2340	285		175.	1790.7	3209.1
1	0705	86		4942.	2067.7	3213.3	*	1	1525	186		179.	1911.4	3211.0	*	1	2345	286		175.	1789.5	3209.1
1	0710	87		4353.	2060.2	3213.2	*	1	1530	187		179.	1910.2	3211.0	*	1	2350	287		175.	1788.3	3209.1
1	0715	88		3819.	2053.4	3213.1	*	1	1535	188		179.	1909.0	3211.0	*	1	2355	288		175.	1787.1	3209.0
1	0720	89		3338.	2047.2	3213.1	*	1	1540	189		179.	1907.7	3210.9	*	2	0000	289		175.	1785.9	3209.0
1	0725	90		2908.	2041.8	3213.0	*	1	1545	190		179.	1906.5	3210.9	*	2	0005	290		175.	1784.7	3209.0
1	0730	91		2524.	2036.9	3212.9	*	1	1550	191		179.	1905.3	3210.9	*	2	0010	291		175.	1783.5	3209.0
1	0735	92		2182.	2032.5	3212.9	*	1	1555	192		179.	1904.0	3210.9	*	2	0015	292		175.	1782.3	3209.0
1	0740	93		1878.	2028.6	3212.8	*	1	1600	193		179.	1902.8	3210.9	*	2	0020	293		175.	1781.1	3208.9
1	0745	94		1609.	2025.2	3212.8	*	1	1605	194		179.	1901.6	3210.9	*	2	0025	294		175.	1779.8	3208.9
1	0750	95		1371.	2022.2	3212.7	*	1	1610	195		179.	1900.4	3210.8	*	2	0030	295		175.	1778.6	3208.9
1	0755	96		1164.	2019.5	3212.7	*	1	1615	196		179.	1899.1	3210.8	*	2	0035	296		175.	1777.4	3208.9
1	0800	97		983.	2017.2	3212.6	*	1	1620	197		179.	1897.9	3210.8	*	2	0040	297		175.	1776.2	3208.9
1	0805	98		827.	2015.2	3212.6	*	1	1625	198		179.	1896.7	3210.8	*	2	0045	298		175.	1775.0	3208.8
1	0810	99		693.	2013.5	3212.6	*	1	1630	199		179.	1895.4	3210.8	*	2	0050	299		175.	1773.8	3208.8
1	0815	100		579.	2012.1	3212.6	*	1	1635	200		178.	1894.2	3210.7	*	2	0055	300		175.	1772.6	3208.8
							*								*							

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 16458.	5.42	4306.	1192.	1148.	1148.
		(INCHES)	.732	.810	.810	.810
		(AC-FT)	2135.	2365.	2365.	2365.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
2183.	5.42	2049.	1665.	1604.	1604.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3214.95	5.42	3213.08	3205.03	3203.42	3203.42

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .76

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE		DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE		DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000		1	0.	.0	3161.0	*	1	0820	101		453.	2010.5	3212.5	*	1	1640	201		178.	1892.6	3210.7
1	0005		2	0.	.0	3161.0	*	1	0825	102		376.	2009.5	3212.5	*	1	1645	202		178.	1891.4	3210.7
1	0010		3	0.	.0	3161.0	*	1	0830	103		312.	2008.7	3212.5	*	1	1650	203		178.	1890.1	3210.7
1	0015		4	0.	.0	3161.0	*	1	0835	104		259.	2008.0	3212.5	*	1	1655	204		178.	1888.9	3210.6
1	0020		5	0.	.0	3161.0	*	1	0840	105		214.	2007.4	3212.5	*	1	1700	205		178.	1887.7	3210.6
1	0025		6	0.	.0	3161.0	*	1	0845	106		182.	2006.9	3212.5	*	1	1705	206		178.	1886.5	3210.6
1	0030		7	0.	.1	3161.0	*	1	0850	107		182.	2006.4	3212.5	*	1	1710	207		178.	1885.2	3210.6
1	0035		8	0.	.4	3161.0	*	1	0855	108		182.	2005.7	3212.5	*	1	1715	208		178.	1884.0	3210.6
1	0040		9	1.	.7	3161.1	*	1	0900	109		182.	2004.9	3212.5	*	1	1720	209		178.	1882.8	3210.6
1	0045		10	1.	1.0	3161.1	*	1	0905	110		182.	2004.1	3212.5	*	1	1725	210		178.	1881.6	3210.5
1	0050		11	1.	1.3	3161.1	*	1	0910	111		182.	2003.1	3212.4	*	1	1730	211		178.	1880.3	3210.5
1	0055		12	2.	1.7	3161.2	*	1	0915	112		182.	2002.1	3212.4	*	1	1735	212		178.	1879.1	3210.5
1	0100		13	2.	2.1	3161.2	*	1	0920	113		182.	2001.1	3212.4	*	1	1740	213		178.	1877.9	3210.5
1	0105		14	3.	2.6	3161.3	*	1	0925	114		182.	2000.0	3212.4	*	1	1745	214		178.	1876.7	3210.5
1	0110		15	4.	3.2	3161.4	*	1	0930	115		182.	1998.9	3212.4	*	1	1750	215		178.	1875.4	3210.4
1	0115		16	4.	4.0	3161.4	*	1	0935	116		182.	1997.7	3212.4	*	1	1755	216		178.	1874.2	3210.4
1	0120		17	5.	4.9	3161.5	*	1	0940	117		182.	1996.5	3212.3	*	1	1800	217		178.	1873.0	3210.4
1	0125		18	7.	6.1	3161.7	*	1	0945	118		182.	1995.3	3212.3	*	1	1805	218		178.	1871.8	3210.4
1	0130		19	8.	7.6	3161.8	*	1	0950	119		182.	1994.1	3212.3	*	1	1810	219		178.	1870.5	3210.4

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE		DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE		DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0135		20	10.	9.5	3162.0	*	1	0955	120		182.	1992.9	3212.3	*	1	1815	220		178.	1869.3	3210.3
1	0140		21	11.	11.9	3162.1	*	1	1000	121		182.	1991.7	3212.3	*	1	1820	221		178.	1868.1	3210.3
1	0145		22	13.	14.8	3162.3	*	1	1005	122		181.	1990.5	3212.2	*	1	1825	222		178.	1866.9	3210.3
1	0150		23	14.	18.2	3162.5	*	1	1010	123		181.	1989.2	3212.2	*	1	1830	223		178.	1865.6	3210.3
1	0155		24	16.	22.1	3162.7	*	1	1015	124		181.	1988.0	3212.2	*	1	1835	224		178.	1864.4	3210.3
1	0200		25	19.	26.7	3162.9	*	1	1020	125		181.	1986.8	3212.2	*	1	1840	225		177.	1863.2	3210.2
1	0205		26	21.	32.1	3163.2	*	1	1025	126		181.	1985.5	3212.2	*	1	1845	226		177.	1862.0	3210.2
1	0210		27	24.	38.2	3163.5	*	1	1030	127		181.	1984.3	3212.2	*	1	1850	227		177.	1860.7	3210.2
1	0215		28	27.	45.1	3163.8	*	1	1035	128		181.	1983.0	3212.1	*	1	1855	228		177.	1859.5	3210.2
1	0220		29	31.	52.7	3164.2	*	1	1040	129		181.	1981.8	3212.1	*	1	1900	229		177.	1858.3	3210.2
1	0225		30	35.	60.9	3164.6	*	1	1045	130		181.	1980.5	3212.1	*	1	1905	230		177.	1857.1	3210.1
1	0230		31	39.	69.9	3165.1	*	1	1050	131		181.	1979.3	3212.1	*	1	1910	231		177.	1855.9	3210.1
1	0235		32	44.	79.7	3165.6	*	1	1055	132		181.	1978.0	3212.1	*	1	1915	232		177.	1854.6	3210.1
1	0240		33	49.	90.5	3166.2	*	1	1100	133		181.	1976.8	3212.0	*	1	1920	233		177.	1853.4	3210.1
1	0245		34	55.	102.2	3166.8	*	1	1105	134		181.	1975.5	3212.0	*	1	1925	234		177.	1852.2	3210.1
1	0250		35	58.	115.0	3167.3	*	1	1110	135		181.	1974.3	3212.0	*	1	1930	235		177.	1851.0	3210.0
1	0255		36	61.	129.0	3167.9	*	1	1115	136		181.	1973.0	3212.0	*	1	1935	236		177.	1849.8	3210.0
1	0300		37	64.	144.3	3168.5	*	1	1120	137		181.	1971.8	3212.0	*	1	1940	237		177.	1848.5	3210.0
1	0305		38	67.	161.2	3169.2	*	1	1125	138		181.	1970.6	3211.9	*	1	1945	238		177.	1847.3	3210.0
1	0310		39	70.	179.7	3169.9	*	1	1130	139		181.	1969.3	3211.9	*	1	1950	239		177.	1846.1	3210.0
1	0315		40	74.	200.2	3170.8	*	1	1135	140		181.	1968.1	3211.9	*	1	1955	240		177.	1844.9	3210.0
1	0320		41	79.	223.1	3171.7	*	1	1140	141		181.	1966.8	3211.9	*	1	2000	241		177.	1843.7	3209.9
1	0325		42	82.	248.8	3172.6	*	1	1145	142		181.	1965.6	3211.9	*	1	2005	242		177.	1842.4	3209.9
1	0330		43	86.	278.2	3173.7	*	1	1150	143		181.	1964.3	3211.8	*	1	2010	243		177.	1841.2	3209.9
1	0335		44	91.	312.0	3174.9	*	1	1155	144		181.	1963.1	3211.8	*	1	2015	244		177.	1840.0	3209.9
1	0340		45	96.	349.7	3176.2	*	1	1200	145		181.	1961.8	3211.8	*	1	2020	245		177.	1838.8	3209.9
1	0345		46	101.	390.1	3177.6	*	1	1205	146		181.	1960.6	3211.8	*	1	2025	246		177.	1837.6	3209.8
1	0350		47	105.	433.4	3179.0	*	1	1210	147		181.	1959.4	3211.8	*	1	2030	247		177.	1836.4	3209.8
1	0355		48	109.	481.1	3180.5	*	1	1215	148		180.	1958.1	3211.7	*	1	2035	248		177.	1835.1	3209.8
1	0400		49	114.	534.5	3182.2	*	1	1220	149		180.	1956.9	3211.7	*	1	2040	249		177.	1833.9	3209.8
1	0405		50	119.	593.8	3183.8	*	1	1225	150		180.	1955.6	3211.7	*	1	2045	250		177.	1832.7	3209.8
1	0410		51	124.	659.4	3185.7	*	1	1230	151		180.	1954.4	3211.7	*	1	2050	251		176.	1831.5	3209.7
1	0415		52	130.	731.9	3187.7	*	1	1235	152		180.	1953.1	3211.7	*	1	2055	252		176.	1830.3	3209.7
1	0420		53	134.	811.6	3189.7	*	1	1240	153		180.	1951.9	3211.6	*	1	2100	253		176.	1829.1	3209.7
1	0425		54	140.	898.8	3191.9	*	1	1245	154		180.	1950.7	3211.6	*	1	2105	254		176.	1827.9	3209.7
1	0430		55	144.	993.8	3194.0	*	1	1250	155		180.	1949.4	3211.6	*	1	2110	255		176.	1826.6	3209.7
1	0435		56	150.	1096.3	3196.4	*	1	1255	156		180.	1948.2	3211.6	*	1	2115	256		176.	1825.4	3209.6
1	0440		57	155.	1206.2	3198.6	*	1	1300	157		180.	1946.9	3211.6	*	1	2120	257		176.	1824.2	3209.6
1	0445		58	160.	1322.3	3200.9	*	1	1305	158		180.	1945.7	3211.6	*	1	2125	258		176.	1823.0	3209.6
1	0450		59	164.	1443.3	3203.2	*	1	1310	159		180.	1944.4	3211.5	*	1	2130	259		176.	1821.8	3209.6
1	0455		60	168.	1567.4	3205.4	*	1	1315	160		180.	1943.2	3211.5	*	1	2135	260		176.	1820.6	3209.6
1	0500		61	172.	1692.5	3207.5	*	1	1320	161		180.	1942.0	3211.5	*	1	2140	261		176.	1819.4	3209.5
1	0505		62	176.	1816.2	3209.5	*	1	1325	162		180.	1940.7	3211.5	*	1	2145	262		176.	1818.1	3209.5
1	0510		63	180.	1937.0	3211.4	*	1	1330	163		180.	1939.5	3211.5	*	1	2150	263		176.	1816.9	3209.5
1	0515		64	3088.	2044.0	3213.0	*	1	1335	164		180.	1938.3	3211.4	*	1	2155	264		176.	1815.7	3209.5
1	0520		65	8863.	2116.8	3214.0	*	1	1340	165		180.	1937.0	3211.4	*	1	2200	265		176.	1814.5	3209.5
1	0525		66	12814.	2151.5	3214.5	*	1	1345	166		180.	1935.8	3211.4	*	1	2205	266		176.	1813.3	3209.4
1	0530		67	14158.	2163.3	3214.7	*	1	1350	167		180.	1934.5	3211.4	*	1	2210	267		176.	1812.1	3209.4
1	0535		68	14384.	2165.3	3214.7	*	1	1355	168		180.	1933.3	3211.4	*	1	2215	268		176.	1810.9	3209.4
1	0540		69	14154.	2163.3	3214.7	*	1	1400	169		180.	1932.1	3211.3	*	1	2220	269		176.	1809.7	3209.4
1	0545		70	13763.	2159.8	3214.6	*	1	1405	170		180.	1930.8	3211.3	*	1	2225	270		176.	1808.5	3209.4
1	0550		71	13340.	2156.1	3214.6	*	1	1410	171		180.	1929.6	3211.3	*	1	2230	271		176.	1807.2	3209.4
1	0555		72	12931.	2152.5	3214.5	*	1	1415	172		180.	1928.4	3211.3	*	1	2235	272		176.	1806.0	3209.3
1	0600		73	12537.	2149.1	3214.5	*	1	1420	173		180.	1927.1	3211.3	*	1	2240	273		176.	1804.8	3209.3
1	0605		74	12136.	2145.6	3214.4	*	1	1425	174		179.	1925.9	3211.2	*	1	2245	274		176.	1803.6	3209.3
1	0610		75	11700.	2141.7	3214.4	*	1	1430	175		179.	1924.6	3211.2	*	1	2250	275		176.	1802.4	3209.3
1	0615		76	11205.	2137.4	3214.3	*	1	1435	176		179.	1923.4	3211.2	*	1	2255	276		176.	1801.2	3209.3
1	0620		77	10637.	2132.4	3214.2	*	1	1440	177		179.	1922.2	3211.2	*	1	2300	277		175.	1800.0	3209.2
1	0625		78	9994.	2126.8	3214.2	*	1	1445	178		179.	1920.9	3211.2	*	1	2305	278		175.	1798.8	3209.2
1	0630		79	9285.	2120.5	3214.1	*	1	1450	179		179.	1919.7	3211.1	*	1	2310	279		175.	1797.6	3209.2
1	0635		80	8561.	2113.8	3214.0	*	1	1455	180		179.	1918.5	3211.1	*	1	2315	280		175.	1796.4	3209.2
1	0640		81	7961.	2106.2	3213.9	*	1	1500	181		179.	1917.2	3211.1	*	1	2320	281		175.	1795.2	3209.2
1	0645		82	7287.	2097.6	3213.8	*	1	1505	182		179.	1916.0	3211.1	*	1	2325	282		175.	1794.0	3209.1
1	0650		83	6589.	2088.7	3213.6	*	1	1510	183		179.	1914.8	3211.1	*	1	2330	283		175.	1792.7	3209.1
1	0655		84	5902.	2079.9	3213.5	*	1	1515	184		179.	1913.5	3211.0	*	1	2335	284		175.	1791.5	3209.1
1	0700		85	5249.	2071.6	3213.4	*	1	1520	185		179.	1912.3	3211.0	*	1	2340	285		175.	1790.3	3209.1
1	0705		86	4642.	2063.9	3213.3	*	1	1525	186		179.	1911.1	3211.0	*	1	2345	286		175.	1789.1	3209.1
1	0710		87	4087.	2056.8	3213.2	*	1	1530	187		179.	1909.8	3211.0	*	1	2350	287		175.	1787.9	3209.0
1	0715		88	3585.	2050.4	3213.1	*	1	1535	188		179.	1908.6	3211.0	*	1	2355	288		175.	1786.7	3209.0
1	0720		89	3133.	2044.6	3213.0	*	1	1540	189		179.	1907.4	3210.9	*	2	0000	289		175.	1785.5	3209.0
1	0725		90	2730.	2039.5	3213.0	*	1	1545	190		179.	1906.1	3210.9	*	2	0005	290		175.	1784.3	3209.0
1	0730		91	2369.	2034.9	3212.9	*	1	1550	191		179.	1904.9	3210.9	*	2	0010	291		175.	1783.1	3209.0
1	0735		92	2048.	2030.8	3212.8	*	1	1555	192		179.	1903.7	3210.9	*	2	0015	292		175.	1781.9	3209.0
1	0740		93	1763.	2027.2	3212.8	*	1	1600	193		179.	1902.4	3210.9	*	2	0020	293		175.	1780.7	3208.9
1	0745		94	1510.	2023.9	3212.7	*	1	1605	194		179.	1901.2	3210.8	*	2	0025	294		175.	1779.5	3208.9
1	0750		95	1287.	2021.1	3212.7	*	1	1610	195		179.	1900.0	3210.8	*	2	0030	295		175.	1778.3	3208.9
1	0755		96	1092.	2018.6	3212.7	*	1	1615	196		179.	1898.8	3210.8	*	2	0035	296		175.	1777.1	3208.9
1	0800		97	923.	2016.4	3212.6	*	1	1620	197		179.	1897.5	3210.8	*	2	0040	297		175.	1775.9	3208.9
1	0805		98	776.	2014.6	3212.6	*	1	1625	198		179.	1896.3	3210.8	*	2	0045	298		175.	1774.7	3208.8
1	0810		99	650.	2013.0	3212.6	*	1	1630	199		178.	1895.1	3210.7	*	2	0050	299		175.	1773.5	3208.8
1	0815		100	543.	2011.6	3212.6	*	1	1635	200		178.	1893.8	3210.7	*	2	0055	300		175.	1772.3	3208.8
															*							

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 14384.	5.58	3677.	1034.	996.	996.
		(INCHES)	.625	.703	.703	.703
		(AC-FT)	1823.	2051.	2051.	2051.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR

+ (AC-FT)	(HR)				
2165.	5.58	2042.	1655.	1594.	1594.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3214.70	5.58	3212.98	3204.79	3203.18	3203.18

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .73

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	3161.0	1		0820	101	423.	2010.1	3212.5	1		1640	201	178.	1892.2	3210.7
1		0005	2	0.	.0	3161.0	1		0825	102	351.	2009.2	3212.5	1		1645	202	178.	1891.0	3210.7
1		0010	3	0.	.0	3161.0	1		0830	103	291.	2008.4	3212.5	1		1650	203	178.	1889.7	3210.7
1		0015	4	0.	.0	3161.0	1		0835	104	241.	2007.8	3212.5	1		1655	204	178.	1888.5	3210.6
1		0020	5	0.	.0	3161.0	1		0840	105	200.	2007.2	3212.5	1		1700	205	178.	1887.3	3210.6
1		0025	6	0.	.0	3161.0	1		0845	106	182.	2006.7	3212.5	1		1705	206	178.	1886.0	3210.6
1		0030	7	0.	.1	3161.0	1		0850	107	182.	2006.1	3212.5	1		1710	207	178.	1884.8	3210.6
1		0035	8	0.	.3	3161.0	1		0855	108	182.	2005.4	3212.5	1		1715	208	178.	1883.6	3210.6
1		0040	9	1.	.5	3161.1	1		0900	109	182.	2004.6	3212.5	1		1720	209	178.	1882.4	3210.5
1		0045	10	1.	.8	3161.1	1		0905	110	182.	2003.7	3212.5	1		1725	210	178.	1881.1	3210.5
1		0050	11	1.	1.0	3161.1	1		0910	111	182.	2002.8	3212.4	1		1730	211	178.	1879.9	3210.5
1		0055	12	1.	1.3	3161.1	1		0915	112	182.	2001.8	3212.4	1		1735	212	178.	1878.7	3210.5
1		0100	13	2.	1.6	3161.2	1		0920	113	182.	2000.7	3212.4	1		1740	213	178.	1877.5	3210.5
1		0105	14	2.	2.0	3161.2	1		0925	114	182.	1999.6	3212.4	1		1745	214	178.	1876.2	3210.4
1		0110	15	3.	2.4	3161.3	1		0930	115	182.	1998.5	3212.4	1		1750	215	178.	1875.0	3210.4
1		0115	16	3.	3.0	3161.3	1		0935	116	182.	1997.3	3212.4	1		1755	216	178.	1873.8	3210.4
1		0120	17	4.	3.7	3161.4	1		0940	117	182.	1996.1	3212.3	1		1800	217	178.	1872.6	3210.4
1		0125	18	5.	4.5	3161.5	1		0945	118	182.	1994.9	3212.3	1		1805	218	178.	1871.3	3210.4
1		0130	19	6.	5.7	3161.6	1		0950	119	182.	1993.7	3212.3	1		1810	219	178.	1870.1	3210.4
1		0135	20	8.	7.1	3161.8	1		0955	120	182.	1992.5	3212.3	1		1815	220	178.	1868.9	3210.3
1		0140	21	10.	8.9	3162.0	1		1000	121	182.	1991.3	3212.3	1		1820	221	178.	1867.7	3210.3
1		0145	22	11.	11.1	3162.1	1		1005	122	181.	1990.0	3212.2	1		1825	222	178.	1866.4	3210.3
1		0150	23	12.	13.7	3162.2	1		1010	123	181.	1988.8	3212.2	1		1830	223	178.	1865.2	3210.3
1		0155	24	14.	16.8	3162.4	1		1015	124	181.	1987.6	3212.2	1		1835	224	178.	1864.0	3210.3
1		0200	25	16.	20.5	3162.6	1		1020	125	181.	1986.3	3212.2	1		1840	225	177.	1862.8	3210.2
1		0205	26	18.	24.7	3162.8	1		1025	126	181.	1985.1	3212.2	1		1845	226	177.	1861.5	3210.2
1		0210	27	20.	29.7	3163.1	1		1030	127	181.	1983.8	3212.1	1		1850	227	177.	1860.3	3210.2
1		0215	28	23.	35.3	3163.3	1		1035	128	181.	1982.6	3212.1	1		1855	228	177.	1859.1	3210.2
1		0220	29	26.	41.5	3163.7	1		1040	129	181.	1981.3	3212.1	1		1900	229	177.	1857.9	3210.2
1		0225	30	29.	48.3	3164.0	1		1045	130	181.	1980.1	3212.1	1		1905	230	177.	1856.7	3210.1
1		0230	31	32.	55.8	3164.4	1		1050	131	181.	1978.8	3212.1	1		1910	231	177.	1855.4	3210.1
1		0235	32	36.	64.1	3164.8	1		1055	132	181.	1977.6	3212.1	1		1915	232	177.	1854.2	3210.1
1		0240	33	41.	73.2	3165.3	1		1100	133	181.	1976.4	3212.0	1		1920	233	177.	1853.0	3210.1
1		0245	34	46.	83.2	3165.8	1		1105	134	181.	1975.1	3212.0	1		1925	234	177.	1851.8	3210.1
1		0250	35	51.	94.1	3166.3	1		1110	135	181.	1973.9	3212.0	1		1930	235	177.	1850.6	3210.0
1		0255	36	57.	106.2	3167.0	1		1115	136	181.	1972.6	3212.0	1		1935	236	177.	1849.3	3210.0
1		0300	37	59.	119.5	3167.5	1		1120	137	181.	1971.4	3212.0	1		1940	237	177.	1848.1	3210.0
1		0305	38	62.	134.1	3168.1	1		1125	138	181.	1970.1	3211.9	1		1945	238	177.	1846.9	3210.0
1		0310	39	65.	150.3	3168.7	1		1130	139	181.	1968.9	3211.9	1		1950	239	177.	1845.7	3210.0
1		0315	40	68.	168.3	3169.5	1		1135	140	181.	1967.6	3211.9	1		1955	240	177.	1844.5	3209.9
1		0320	41	72.	188.5	3170.3	1		1140	141	181.	1966.4	3211.9	1		2000	241	177.	1843.3	3209.9
1		0325	42	76.	211.3	3171.2	1		1145	142	181.	1965.1	3211.9	1		2005	242	177.	1842.0	3209.9
1		0330	43	81.	237.4	3172.2	1		1150	143	181.	1963.9	3211.8	1		2010	243	177.	1840.8	3209.9
1		0335	44	85.	267.7	3173.3	1		1155	144	181.	1962.7	3211.8	1		2015	244	177.	1839.6	3209.9
1		0340	45	90.	301.6	3174.5	1		1200	145	181.	1961.4	3211.8	1		2020	245	177.	1838.4	3209.8
1		0345	46	94.	338.0	3175.8	1		1205	146	181.	1960.2	3211.8	1		2025	246	177.	1837.2	3209.8
1		0350	47	99.	377.1	3177.2	1		1210	147	181.	1958.9	3211.8	1		2030	247	177.	1835.9	3209.8
1		0355	48	104.	420.2	3178.5	1		1215	148	180.	1957.7	3211.7	1		2035	248	177.	1834.7	3209.8
1		0400	49	108.	468.5	3180.1	1		1220	149	180.	1956.4	3211.7	1		2040	249	177.	1833.5	3209.8
1		0405	50	113.	522.4	3181.8	1		1225	150	180.	1955.2	3211.7	1		2045	250	177.	1832.3	3209.8
1		0410	51	118.	582.1	3183.5	1		1230	151	180.	1954.0	3211.7	1		2050	251	176.	1831.1	3209.7
1		0415	52	123.	648.0	3185.4	1		1235	152	180.	1952.7	3211.7	1		2055	252	176.	1829.9	3209.7
1		0420	53	129.	720.7	3187.4	1		1240	153	180.	1951.5	3211.6	1		2100	253	176.	1828.7	3209.7
1		0425	54	134.	800.5	3189.4	1		1245	154	180.	1950.2	3211.6	1		2105	254	176.	1827.4	3209.7
1		0430	55	139.	887.3	3191.6	1		1250	155	180.	1949.0	3211.6	1		2110	255	176.	1826.2	3209.7
1		0435	56	144.	981.2	3193.8	1		1255	156	180.	1947.7	3211.6	1		2115	256	176.	1825.0	3209.6
1		0440	57	149.	1081.8	3196.0	1		1300	157	180.	1946.5	3211.6	1		2120	257	176.	1823.8	3209.6
1		0445	58	154.	1188.5	3198.3	1		1305	158	180.	1945.3	3211.5	1		2125	258	176.	1822.6	3209.6
1		0450	59	159.	1299.6	3200.5	1		1310	159	180.	1944.0	3211.5	1		2130	259	176.	1821.4	3209.6
1		0455	60	163.	1413.8	3202.7	1		1315	160	180.	1942.8	3211.5	1		2135	260	176.	1820.2	3209.6
1		0500	61	167.	1528.9	3204.7	1		1320	161	180.	1941.5	3211.5	1		2140	261	176.	1818.9	3209.5
1		0505	62	170.	1642.8	3206.7	1		1325	162	180.	1940.3	3211.5	1		2145	262	176.	1817.7	3209.5
1		0510	63	174.	1754.3	3208.5	1		1330	163	180.	1939.1	3211.4	1		2150	263	176.	1816.5	3209.5
1		0515	64	177.	1862.2	3210.2	1		1335	164	180.	1937.8	3211.4	1		2155	264	176.	1815.3	3209.5
1		0520	65	181.	1966.3	3211.9	1		1340	165	180.	1936.6	3211.4	1		2200	265	176.	1814.1	3209.5
1		0525	66	3831.	2053.5	3213.1	1		1345	166	180.	1935.4	3211.4	1		2205	266	176.	1812.9	3209.4
1		0530	67	8183.	2109.0	3213.9	1		1350	167	180.	1934.1	3211.4	1		2210	267	176.	1811.7	3209.4
1		0535	68	11016.	2135.7	3214.3	1		1355	168	180.	1932.9	3211.3	1		2215	268	176.	1810.5	3209.4
1		0540	69	12106.	2145.3	3214.4	1		1400	169	180.	1931.6	3211.3	1		2220	269	176.	1809.3	3209.4
1		0545	70	12317.	2147.1	3214.4	1		1405	170	180.	1930.4	3211.3	1		2225	270	176.	1808.0	3209.4
1		0550	71	12180.	2145.9	3214.4	1		1410	171	180.	1929.2	3211.3	1		2230	271	176.	1806.8	3209.3
1		0555	72	11916.	2143.6	3214.4	1		1415	172	180.	1927.9	3211.3	1		2235	272	176.	1805.6	3209.3
1		0600	73	11605.	2140.9	3214.4	1		1420	173	179.	1926.7	3211.2	1		2240	273	176.	1804.4	3209.3
1		0605	74	11259.	2137.9	3214.3	1		1425	174	179.	1925.5	3211.2	1		2245	274	176.	1803.2	3209.3
1		0610	75	10868.	2134.4	3214.3	1		1430	175	179.	1924.2	3211.2	1		2250	275	176.	1802.0	3209.3
1		0615	76	10416.	2130.5	3214.2	1		1435	176	179.	1923.0	3211.2	1		2255	276	176.	1800.8	3209.3
1		0620	77	9894.	2125.9	3214.2	1		1440	177	179.	1921.7	3211.2	1		2300	277	175.	1799.6	3209.2
1		0625	78	9299.	2120.7	3214.1	1		1445	178	179.	1920.5	3211.2	1		2305	278	175.	1798.4	3209.2
1		0630	79	8646.	2114.9	3214.0	1		1450	179	179.	1919.3	3211.1	1		2310	279	175.	1797.2	3209.2
1		0635	80	8116.	2108.1	3213.9	1		1455	180	179.	1918.0	3211.1	1		2315	280	175.	1796.0	3209.2
1		0640	81	7497.	2100.2	3213.8	1		1500	181	179.	1916.8	3211.1	1		2320	281	175.	1794.7	3209.2
1		0645	82	6835.	2091.8	3213.7	1		1505	182	179.	1915.6	3211.1	1		2325	282	175.	1793.5	3209.1
1		0650	83	6166.	2083.3	3213.6	1		1510	183	179.	1914.3	3211.1	1		2330	283	175.	1792.3	3209.1
1		0655	84	5515.	2075.0	3213.4	1		1515	184	179.	1913.1	3211.0	1		2335	284	175.	1791.1	3209.1
1		0700	85	4900.	2067.2	3213.3	1		1520	185	179.	1911.9	3211.0	1		2340	285	175.	1789.9	3209.1
1		0705	86	4331.	2059.9	3213.2	1		1525	186	179.	1910.6	3211.0	1		2345	286	175.	1788.7	3209.1
1		0710	87	3813.	2053.3	3213.1	1		1530	187	179.	1909.4	3211.0	1		2350	287	175.	1787.5	3209.0
1		0715	88	3344.	2047.3	3213.1	1		1535	188	179.	1908.2	3211.0	1		2355	288	175.	1786.3	3209.0
1		0720	89	2923.	2041.9	3213.0	1		1540	189	179.	1906.9	3210.9	2		0000	289	175.	1785.1	3209.0
1		0725	90	2546.	2037.1	3212.9	1		1545	190	179.	1905.7	3210.9	2		0005	290	175.	1783.9	3209.0
1		0730	91	2210.	2032.9	3212.9	1		1550	191	179.	1904.5	3210.9	2		0010	291	175.	1782.7	3209.0
1		0735	92	1911.	2029.0	3212.8	1		1555	192	179.	1903.3	3210.9	2		0015	292	175.	1781.5	3208.9
1		0740	93	1645.	2025.6	3212.8	1		1600	193	179.	1902.0	3210.9	2		0020	293	175.	1780.3	3208.9
1		0745	94	1409.	2022.6	3212.7	1		1605	194	179.	1900.8	3210.8	2		0025	294	175.	1779.1	3208.9
1		0750	95	1201.	2020.0	3212.7	1		1610	195	179.	1899.6	3210.8	2		0030	295	175.	1777.9	3208.9
1		0755	96	1019.	2017.7	3212.6	1		1615	196	179.	1898.3	3210.8	2		0035	296	175.	1776.7	3208.9
1		0800	97	861.	2015.7	3212.6	1		1620	197	179.	1897.1	3210.8	2		0040	297	175.	1775.5	3208.8
1		0805	98	724.	2013.9	3212.6	1		1625	198	179.	1895.9	3210.8	2		0045	298	175.	1774.3	3208.8
1		0810	99	607.	2012.4	3212.6	1		1630	199	178.	1894.6	3210.7	2		0050	299	175.	1773.1	3208.8
1		0815	100	507.	2011.1	3212.6	1		1635	200	178.	1893.4	3210.7	2		0055	300	175.	1771.9	3208.8

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW		
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 12317.	5.75		3041.	874.	842.	842.
		(INCHES)	.517	.594	.594	.594
		(AC-FT)	1508.	1734.	1734.	1734.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
2147.	5.75	2034.	1644.	1584.	1584.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3214.45	5.75	3212.87	3204.52	3202.92	3202.92

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .69

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	3161.0	1		0820	101	400.	2009.8	3212.5	1		1640	201	178.	1891.9	3210.7
1		0005	2	0.	.0	3161.0	1		0825	102	333.	2008.9	3212.5	1		1645	202	178.	1890.6	3210.7
1		0010	3	0.	.0	3161.0	1		0830	103	276.	2008.2	3212.5	1		1650	203	178.	1889.4	3210.7
1		0015	4	0.	.0	3161.0	1		0835	104	229.	2007.6	3212.5	1		1655	204	178.	1888.2	3210.6
1		0020	5	0.	.0	3161.0	1		0840	105	189.	2007.1	3212.5	1		1700	205	178.	1887.0	3210.6
1		0025	6	0.	.0	3161.0	1		0845	106	182.	2006.6	3212.5	1		1705	206	178.	1885.7	3210.6
1		0030	7	0.	.1	3161.0	1		0850	107	182.	2006.0	3212.5	1		1710	207	178.	1884.5	3210.6
1		0035	8	0.	.2	3161.0	1		0855	108	182.	2005.2	3212.5	1		1715	208	178.	1883.3	3210.6
1		0040	9	0.	.4	3161.0	1		0900	109	182.	2004.4	3212.5	1		1720	209	178.	1882.0	3210.5
1		0045	10	1.	.6	3161.1	1		0905	110	182.	2003.5	3212.4	1		1725	210	178.	1880.8	3210.5
1		0050	11	1.	.8	3161.1	1		0910	111	182.	2002.5	3212.4	1		1730	211	178.	1879.6	3210.5
1		0055	12	1.	1.1	3161.1	1		0915	112	182.	2001.5	3212.4	1		1735	212	178.	1878.4	3210.5
1		0100	13	1.	1.3	3161.1	1		0920	113	182.	2000.4	3212.4	1		1740	213	178.	1877.1	3210.5
1		0105	14	2.	1.6	3161.2	1		0925	114	182.	1999.3	3212.4	1		1745	214	178.	1875.9	3210.4
1		0110	15	2.	1.9	3161.2	1		0930	115	182.	1998.2	3212.4	1		1750	215	178.	1874.7	3210.4
1		0115	16	3.	2.3	3161.3	1		0935	116	182.	1997.0	3212.3	1		1755	216	178.	1873.5	3210.4
1		0120	17	3.	2.9	3161.3	1		0940	117	182.	1995.8	3212.3	1		1800	217	178.	1872.2	3210.4
1		0125	18	4.	3.5	3161.4	1		0945	118	182.	1994.6	3212.3	1		1805	218	178.	1871.0	3210.4
1		0130	19	5.	4.4	3161.5	1		0950	119	182.	1993.4	3212.3	1		1810	219	178.	1869.8	3210.3
1		0135	20	6.	5.6	3161.6	1		0955	120	182.	1992.2	3212.3	1		1815	220	178.	1868.6	3210.3
1		0140	21	8.	7.0	3161.8	1		1000	121	182.	1991.0	3212.3	1		1820	221	178.	1867.3	3210.3
1		0145	22	10.	8.8	3162.0	1		1005	122	181.	1989.7	3212.2	1		1825	222	178.	1866.1	3210.3
1		0150	23	11.	10.9	3162.1	1		1010	123	181.	1988.5	3212.2	1		1830	223	178.	1864.9	3210.3
1		0155	24	12.	13.4	3162.2	1		1015	124	181.	1987.2	3212.2	1		1835	224	177.	1863.7	3210.2
1		0200	25	14.	16.4	3162.4	1		1020	125	181.	1986.0	3212.2	1		1840	225	177.	1862.5	3210.2
1		0205	26	15.	19.9	3162.6	1		1025	126	181.	1984.8	3212.2	1		1845	226	177.	1861.2	3210.2
1		0210	27	17.	24.0	3162.8	1		1030	127	181.	1983.5	3212.1	1		1850	227	177.	1860.0	3210.2
1		0215	28	19.	28.8	3163.0	1		1035	128	181.	1982.3	3212.1	1		1855	228	177.	1858.8	3210.2
1		0220	29	22.	34.0	3163.3	1		1040	129	181.	1981.0	3212.1	1		1900	229	177.	1857.6	3210.2
1		0225	30	25.	39.9	3163.6	1		1045	130	181.	1979.8	3212.1	1		1905	230	177.	1856.3	3210.1
1		0230	31	28.	46.3	3163.9	1		1050	131	181.	1978.5	3212.1	1		1910	231	177.	1855.1	3210.1
1		0235	32	31.	53.5	3164.3	1		1055	132	181.	1977.3	3212.0	1		1915	232	177.	1853.9	3210.1
1		0240	33	35.	61.4	3164.7	1		1100	133	181.	1976.0	3212.0	1		1920	233	177.	1852.7	3210.1
1		0245	34	39.	70.2	3165.1	1		1105	134	181.	1974.8	3212.0	1		1925	234	177.	1851.5	3210.1
1		0250	35	44.	79.8	3165.6	1		1110	135	181.	1973.5	3212.0	1		1930	235	177.	1850.2	3210.0

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DA MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0730	91	1872.	2028.5	3212.8	1	1550	191	179.	1903.5	3210.9	2	0010	291	175.	1781.7	3208.9
1	0735	92	1618.	2025.3	3212.8	1	1555	192	179.	1902.3	3210.9	2	0015	292	175.	1780.5	3208.9
1	0740	93	1393.	2022.4	3212.7	1	1600	193	179.	1901.0	3210.8	2	0020	293	175.	1779.3	3208.9
1	0745	94	1194.	2019.9	3212.7	1	1605	194	179.	1899.8	3210.8	2	0025	294	175.	1778.1	3208.9
1	0750	95	1018.	2017.7	3212.6	1	1610	195	179.	1898.6	3210.8	2	0030	295	175.	1776.9	3208.9
1	0755	96	864.	2015.7	3212.6	1	1615	196	179.	1897.3	3210.8	2	0035	296	175.	1775.7	3208.9
1	0800	97	730.	2014.0	3212.6	1	1620	197	179.	1896.1	3210.8	2	0040	297	175.	1774.5	3208.8
1	0805	98	614.	2012.5	3212.6	1	1625	198	178.	1894.9	3210.7	2	0045	298	175.	1773.3	3208.8
1	0810	99	515.	2011.2	3212.6	1	1630	199	178.	1893.7	3210.7	2	0050	299	175.	1772.1	3208.8
1	0815	100	430.	2010.2	3212.5	1	1635	200	178.	1892.4	3210.7	2	0055	300	175.	1770.9	3208.8

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 8301.	6.25		1726.	543.	523.	523.
		(INCHES)	.293	.369	.369	.369
		(AC-FT)	856.	1078.	1078.	1078.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
2110.	6.25	2016.	1616.	1557.	1557.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3213.94	6.25	3212.61	3203.88	3202.30	3202.30

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .58

DA MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000	1	0.	.0	3161.0	1	0820	101	314.	2008.7	3212.5	1	1640	201	178.	1890.4	3210.7
1	0005	2	0.	.0	3161.0	1	0825	102	261.	2008.0	3212.5	1	1645	202	178.	1889.2	3210.7
1	0010	3	0.	.0	3161.0	1	0830	103	216.	2007.4	3212.5	1	1650	203	178.	1888.0	3210.6
1	0015	4	0.	.0	3161.0	1	0835	104	182.	2007.0	3212.5	1	1655	204	178.	1886.7	3210.6
1	0020	5	0.	.0	3161.0	1	0840	105	182.	2006.4	3212.5	1	1700	205	178.	1885.5	3210.6
1	0025	6	0.	.0	3161.0	1	0845	106	182.	2005.8	3212.5	1	1705	206	178.	1884.3	3210.6
1	0030	7	0.	.0	3161.0	1	0850	107	182.	2005.0	3212.5	1	1710	207	178.	1883.0	3210.6
1	0035	8	0.	.0	3161.0	1	0855	108	182.	2004.2	3212.5	1	1715	208	178.	1881.8	3210.5
1	0040	9	0.	.1	3161.0	1	0900	109	182.	2003.3	3212.4	1	1720	209	178.	1880.6	3210.5
1	0045	10	0.	.2	3161.0	1	0905	110	182.	2002.3	3212.4	1	1725	210	178.	1879.4	3210.5
1	0050	11	0.	.3	3161.0	1	0910	111	182.	2001.3	3212.4	1	1730	211	178.	1878.1	3210.5
1	0055	12	0.	.4	3161.0	1	0915	112	182.	2000.2	3212.4	1	1735	212	178.	1876.9	3210.5
1	0100	13	1.	.5	3161.1	1	0920	113	182.	1999.1	3212.4	1	1740	213	178.	1875.7	3210.4
1	0105	14	1.	.6	3161.1	1	0925	114	182.	1997.9	3212.4	1	1745	214	178.	1874.5	3210.4
1	0110	15	1.	.7	3161.1	1	0930	115	182.	1996.8	3212.3	1	1750	215	178.	1873.2	3210.4
1	0115	16	1.	.8	3161.1	1	0935	116	182.	1995.6	3212.3	1	1755	216	178.	1872.0	3210.4
1	0120	17	1.	.9	3161.1	1	0940	117	182.	1994.4	3212.3	1	1800	217	178.	1870.8	3210.4
1	0125	18	1.	1.1	3161.1	1	0945	118	182.	1993.2	3212.3	1	1805	218	178.	1869.6	3210.3
1	0130	19	2.	1.4	3161.2	1	0950	119	182.	1991.9	3212.3	1	1810	219	178.	1868.3	3210.3
1	0135	20	2.	1.7	3161.2	1	0955	120	182.	1990.7	3212.3	1	1815	220	178.	1867.1	3210.3
1	0140	21	2.	2.2	3161.2	1	1000	121	181.	1989.5	3212.2	1	1820	221	178.	1865.9	3210.3
1	0145	22	3.	2.8	3161.3	1	1005	122	181.	1988.3	3212.2	1	1825	222	178.	1864.7	3210.3
1	0150	23	4.	3.5	3161.4	1	1010	123	181.	1987.0	3212.2	1	1830	223	177.	1863.5	3210.2
1	0155	24	5.	4.4	3161.5	1	1015	124	181.	1985.8	3212.2	1	1835	224	177.	1862.2	3210.2
1	0200	25	6.	5.5	3161.6	1	1020	125	181.	1984.5	3212.2	1	1840	225	177.	1861.0	3210.2
1	0205	26	8.	6.9	3161.8	1	1025	126	181.	1983.3	3212.1	1	1845	226	177.	1859.8	3210.2
1	0210	27	10.	8.6	3162.0	1	1030	127	181.	1982.0	3212.1	1	1850	227	177.	1858.6	3210.2
1	0215	28	11.	10.6	3162.1	1	1035	128	181.	1980.8	3212.1	1	1855	228	177.	1857.3	3210.1
1	0220	29	12.	12.9	3162.2	1	1040	129	181.	1979.5	3212.1	1	1900	229	177.	1856.1	3210.1
1	0225	30	13.	15.6	3162.3	1	1045	130	181.	1978.3	3212.1	1	1905	230	177.	1854.9	3210.1
1	0230	31	15.	18.6	3162.5	1	1050	131	181.	1977.1	3212.0	1	1910	231	177.	1853.7	3210.1
1	0235	32	16.	22.1	3162.7	1	1055	132	181.	1975.8	3212.0	1	1915	232	177.	1852.5	3210.1
1	0240	33	18.	26.1	3162.9	1	1100	133	181.	1974.6	3212.0	1	1920	233	177.	1851.2	3210.1
1	0245	34	20.	30.6	3163.1	1	1105	134	181.	1973.3	3212.0	1	1925	234	177.	1850.0	3210.0
1	0250	35	23.	35.8	3163.4	1	1110	135	181.	1972.1	3212.0	1	1930	235	177.	1848.8	3210.0
1	0255	36	26.	41.7	3163.7	1	1115	136	181.	1970.8	3211.9	1	1935	236	177.	1847.6	3210.0
1	0300	37	29.	48.3	3164.0	1	1120	137	181.	1969.6	3211.9	1	1940	237	177.	1846.4	3210.0
1	0305	38	32.	55.9	3164.4	1	1125	138	181.	1968.3	3211.9	1	1945	238	177.	1845.1	3210.0
1	0310	39	37.	64.5	3164.8	1	1130	139	181.	1967.1	3211.9	1	1950	239	177.	1843.9	3209.9
1	0315	40	41.	74.3	3165.3	1	1135	140	181.	1965.8	3211.9	1	1955	240	177.	1842.7	3209.9
1	0320	41	47.	85.5	3165.9	1	1140	141	181.	1964.6	3211.9	1	2000	241	177.	1841.5	3209.9
1	0325	42	53.	98.5	3166.6	1	1145	142	181.	1963.4	3211.8	1	2005	242	177.	1840.3	3209.9
1	0330	43	58.	113.9	3167.3	1	1150	143	181.	1962.1	3211.8	1	2010	243	177.	1839.1	3209.9
1	0335	44	62.	132.2	3168.0	1	1155	144	181.	1960.9	3211.8	1	2015	244	177.	1837.8	3209.8
1	0340	45	66.	153.1	3168.9	1	1200	145	181.	1959.6	3211.8	1	2020	245	177.	1836.6	3209.8
1	0345	46	70.	175.8	3169.8	1	1205	146	181.	1958.4	3211.8	1	2025	246	177.	1835.4	3209.8
1	0350	47	74.	200.3	3170.8	1	1210	147	180.	1957.1	3211.7	1	2030	247	177.	1834.2	3209.8
1	0355	48	79.	227.7	3171.9	1	1215	148	180.	1955.9	3211.7	1	2035	248	177.	1833.0	3209.8
1	0400	49	84.	258.8	3173.0	1	1220	149	180.	1954.6	3211.7	1	2040	249	176.	1831.8	3209.7
1	0405	50	88.	293.7	3174.2	1	1225	150	180.	1953.4	3211.7	1	2045	250	176.	1830.5	3209.7
1	0410	51	94.	332.8	3175.6	1	1230	151	180.	1952.2	3211.7	1	2050	251	176.	1829.3	3209.7
1	0415	52	99.	376.2	3177.1	1	1235	152	180.	1950.9	3211.6	1	2055	252	176.	1828.1	3209.7
1	0420	53	104.	424.5	3178.7	1	1240	153	180.	1949.7	3211.6	1	2100	253	176.	1826.9	3209.7
1	0425	54	109.	477.8	3180.4	1	1245	154	180.	1948.4	3211.6	1	2105	254	176.	1825.7	3209.6
1	0430	55	115.	536.2	3182.2	1	1250	155	180.	1947.2	3211.6	1	2110	255	176.	1824.5	3209.6
1	0435	56	120.	599.8	3184.0	1	1255	156	180.	1946.0	3211.6	1	2115	256	176.	1823.3	3209.6
1	0440	57	125.	668.4	3186.0	1	1300	157	180.	1944.7	3211.5	1	2120	257	176.	1822.0	3209.6
1	0445	58	130.	741.4	3187.9	1	1305	158	180.	1943.5	3211.5	1	2125	258	176.	1820.8	3209.6
1	0450	59	135.	817.9	3189.9	1	1310	159	180.	1942.2	3211.5	1	2130	259	176.	1819.6	3209.5
1	0455	60	140.	896.8	3191.8	1	1315	160	180.	1941.0	3211.5	1	2135	260	176.	1818.4	3209.5
1	0500	61	144.	976.8	3193.7	1	1320	161	180.	1939.8	3211.5	1	2140	261	176.	1817.2	3209.5
1	0505	62	148.	1056.3	3195.5	1	1325	162	180.	1938.5	3211.4	1	2145	262	176.	1816.0	3209.5
1	0510	63	151.	1134.3	3197.2	1	1330	163	180.	1937.3	3211.4	1	2150	263	176.	1814.8	3209.5
1	0515	64	155.	1210.1	3198.7	1	1335	164	180.	1936.0	3211.4	1	2155	264	176.	1813.6	3209.5
1	0520	65	158.	1283.4	3200.2	1	1340	165	180.	1934.8	3211.4	1	2200	265	176.	1812.3	3209.4
1	0525	66	161.	1354.0	3201.6	1	1345	166	180.	1933.6	3211.4	1	2205	266	176.	1811.1	3209.4
1	0530	67	163.	1421.8	3202.8	1	1350	167	180.	1932.3	3211.3	1	2210	267	176.	1809.9	3209.4
1	0535	68	166.	1487.0	3204.0	1	1355	168	180.	1931.1	3211.3	1	2215	268	176.	1808.7	3209.4
1	0540	69	168.	1549.8	3205.1	1	1400	169	180.	1929.9	3211.3	1	2220	269	176.	1807.5	3209.4
1	0545	70	169.	1610.4	3206.1	1	1405	170	180.	1928.6	3211.3	1	2225	270	176.	1806.3	3209.3
1	0550	71	171.	1669.2	3207.2	1	1410	171	180.	1927.4	3211.3	1	2230	271	176.	1805.1	3209.3
1	0555	72	173.	1726.4	3208.1	1	1415	172	179.	1926.1	3211.2	1	2235	272	176.	1803.9	3209.3
1	0600	73	175.	1782.0	3209.0	1	1420	173	179.	1924.9	3211.2	1	2240	273	176.	1802.7	3209.3
1	0605	74	177.	1835.8	3209.8	1	1425	174	179.	1923.7	3211.2	1	2245	274	176.	1801.5	3209.3
1	0610	75	178.	1887.6	3210.6	1	1430	175	179.	1922.4	3211.2	1	2250	275	175.	1800.3	3209.2
1	0615	76	180.	1937.0	3211.4	1	1435	176	179.	1921.2	3211.2	1	2255	276	175.	1799.0	3209.2
1	0620	77	181.	1983.6	3212.1	1	1440	177	179.	1920.0	3211.1	1	2300	277	175.	1797.8	3209.2
1	0625	78	1413.	2022.7	3212.7	1	1445	178	179.	1918.7	3211.1	1	2305	278	175.	1796.6	3209.2
1	0630	79	3350.	2047.4	3213.1	1	1450	179	179.	1917.5	3211.1	1	2310	279	175.	1795.4	3209.2
1	0635	80	4236.	2058.7	3213.2	1	1455	180	179.	1916.3	3211.1	1	2315	280	175.	1794.2	3209.1
1	0640	81	4516.	2062.3	3213.3	1	1500	181	179.	1915.0	3211.1	1	2320	281	175.	1793.0	3209.1
1	0645	82	4454.	2061.5	3213.3	1	1505	182	179.	1913.8	3211.0	1	2325	282	175.	1791.8	3209.1
1	0650	83	4207.	2058.3	3213.2	1	1510	183	179.	1912.6	3211.0	1	2330	283	175.	1790.6	3209.1
1	0655	84	3871.	2054.0	3213.2	1	1515	184	179.	1911.3	3211.0	1	2335	284	175.	1789.4	3209.1
1	0700	85	3500.	2049.3	3213.1	1	1520	185	179.	1910.1	3211.0	1	2340	285	175.	1788.2	3209.1
1	0705	86	3129.	2044.6	3213.0	1	1525	186	179.	1908.9	3211.0	1	2345	286	175.	1787.0	3209.0
1	0710	87	2775.	2040.1	3213.0	1	1530	187	179.	1907.6	3210.9	1	2350	287	175.	1785.8	3209.0
1	0715	88	2447.	2035.9	3212.9	1	1535	188	179.	1906.4	3210.9	1	2355	288	175.	1784.6	3209.0
1	0720	89	2146.	2032.0	3212.8	1	1540	189	179.	1905.2	3210.9	2	0000	289	175.	1783.4	3209.0
1	0725	90	1874.	2028.6	3212.8	1	1545	190	179.	1903.9	3210.9	2	0005	290	175.	1782.2	3209.0
1	0730	91	1630.	2025.5	3212.8	1	1550	191	179.	1902.7	3210.9	2	0010	291	175.	1780.9	3208.9
1	0735	92	1411.	2022.7	3212.7	1	1555	192	179.	1901.5	3210.8	2	0015	292	175.	1779.7	3208.9
1	0740	93	1216.	2020.2	3212.7	1	1600	193	179.	1900.2	3210.8	2	0020	293	175.	1778.5	3208.9
1	0745	94	1042.	2018.0	3212.7	1	1605	194	179.	1899.0	3210.8	2	0025	294	175.	1777.3	3208.9
1	0750	95	889.	2016.0	3212.6	1	1610	195	179.	1897.8	3210.8	2	0030	295	175.	1776.1	3208.9
1	0755	96	755.	2014.3	3212.6	1	1615	196	179.	1896.6	3210.8	2	0035	296	175.	1774.9	3208.8
1	0800	97	638.	2012.8	3212.6	1	1620	197	179.	1895.3	3210.8	2	0040	297	175.	1773.7	3208.8
1	0805	98	537.	2011.5	3212.6	1	1625	198	178.	1894.1	3210.7	2	0045	298	175.	1772.5	3208.8
1	0810	99	450.	2010.4	3212.5	1	1630	199	178.	1892.9	3210.7	2	0050	299	175.	1771.3	3208.8
1	0815	100	376.	2009.5	3212.5	1	1635	200	178.	1891.6	3210.7	2	0055	300	175.	1770.1	3208.8

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 4516.	6.67		833.	318.	307.	307.
		(INCHES)	.142	.216	.216	.216
		(AC-FT)	413.	632.	632.	632.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
2062.	6.67	2000.	1591.	1532.	1532.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3213.27	6.67	3212.38	3203.31	3201.76	3201.76

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .53

DA MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000	1	0.	.0	3161.0	1	0820	101	181.	1975.9	3212.0	1	1640	201	177.	1858.8	3210.2
1	0005	2	0.	.0	3161.0	1	0825	102	181.	1975.8	3212.0	1	1645	202	177.	1857.5	3210.2
1	0010	3	0.	.0	3161.0	1	0830	103	181.	1975.5	3212.0	1	1650	203	177.	1856.3	3210.1
1	0015	4	0.	.0	3161.0	1	0835	104	181.	1975.1	3212.0	1	1655	204	177.	1855.1	3210.1
1	0020	5	0.	.0	3161.0	1	0840	105	181.	1974.5	3212.0	1	1700	205	177.	1853.9	3210.1
1	0025	6	0.	.0	3161.0	1	0845	106	181.	1973.8	3212.0	1	1705	206	177.	1852.7	3210.1
1	0030	7	0.	.0	3161.0	1	0850	107	181.	1973.0	3212.0	1	1710	207	177.	1851.4	3210.1
1	0035	8	0.	.0	3161.0	1	0855	108	181.	1972.1	3212.0	1	1715	208	177.	1850.2	3210.0
1	0040	9	0.	.0	3161.0	1	0900	109	181.	1971.1	3212.0	1	1720	209	177.	1849.0	3210.0
1	0045	10	0.	.1	3161.0	1	0905	110	181.	1970.1	3211.9	1	1725	210	177.	1847.8	3210.0
1	0050	11	0.	.1	3161.0	1	0910	111	181.	1969.1	3211.9	1	1730	211	177.	1846.6	3210.0
1	0055	12	0.	.2	3161.0	1	0915	112	181.	1968.0	3211.9	1	1735	212	177.	1845.3	3210.0

1	0100	13	0.	.3	3161.0	*	1	0920	113	181.	1966.9	3211.9	*	1	1740	213	177.	1844.1	3209.9
1	0105	14	0.	.3	3161.0	*	1	0925	114	181.	1965.7	3211.9	*	1	1745	214	177.	1842.9	3209.9
1	0110	15	0.	.4	3161.0	*	1	0930	115	181.	1964.5	3211.8	*	1	1750	215	177.	1841.7	3209.9
1	0115	16	1.	.5	3161.1	*	1	0935	116	181.	1963.4	3211.8	*	1	1755	216	177.	1840.5	3209.9
1	0120	17	1.	.5	3161.1	*	1	0940	117	181.	1962.2	3211.8	*	1	1800	217	177.	1839.2	3209.9
1	0125	18	1.	.6	3161.1	*	1	0945	118	181.	1960.9	3211.8	*	1	1805	218	177.	1838.0	3209.8
1	0130	19	1.	.8	3161.1	*	1	0950	119	181.	1959.7	3211.8	*	1	1810	219	177.	1836.8	3209.8
1	0135	20	1.	1.0	3161.1	*	1	0955	120	181.	1958.5	3211.8	*	1	1815	220	177.	1835.6	3209.8
1	0140	21	1.	1.2	3161.1	*	1	1000	121	180.	1957.3	3211.7	*	1	1820	221	177.	1834.4	3209.8
1	0145	22	2.	1.5	3161.2	*	1	1005	122	180.	1956.0	3211.7	*	1	1825	222	177.	1833.2	3209.8
1	0150	23	2.	1.9	3161.2	*	1	1010	123	180.	1954.8	3211.7	*	1	1830	223	176.	1831.9	3209.7
1	0155	24	3.	2.4	3161.3	*	1	1015	124	180.	1953.6	3211.7	*	1	1835	224	176.	1830.7	3209.7
1	0200	25	3.	3.1	3161.3	*	1	1020	125	180.	1952.3	3211.7	*	1	1840	225	176.	1829.5	3209.7
1	0205	26	4.	3.9	3161.4	*	1	1025	126	180.	1951.1	3211.6	*	1	1845	226	176.	1828.3	3209.7
1	0210	27	5.	4.9	3161.5	*	1	1030	127	180.	1949.9	3211.6	*	1	1850	227	176.	1827.1	3209.7
1	0215	28	7.	6.1	3161.7	*	1	1035	128	180.	1948.6	3211.6	*	1	1855	228	176.	1825.9	3209.6
1	0220	29	8.	7.5	3161.8	*	1	1040	129	180.	1947.4	3211.6	*	1	1900	229	176.	1824.7	3209.6
1	0225	30	10.	9.1	3162.0	*	1	1045	130	180.	1946.1	3211.6	*	1	1905	230	176.	1823.4	3209.6
1	0230	31	11.	11.0	3162.1	*	1	1050	131	180.	1944.9	3211.5	*	1	1910	231	176.	1822.2	3209.6
1	0235	32	12.	13.2	3162.2	*	1	1055	132	180.	1943.7	3211.5	*	1	1915	232	176.	1821.0	3209.6
1	0240	33	13.	15.8	3162.3	*	1	1100	133	180.	1942.4	3211.5	*	1	1920	233	176.	1819.8	3209.6
1	0245	34	15.	18.9	3162.5	*	1	1105	134	180.	1941.2	3211.5	*	1	1925	234	176.	1818.6	3209.5
1	0250	35	16.	22.4	3162.7	*	1	1110	135	180.	1939.9	3211.5	*	1	1930	235	176.	1817.4	3209.5
1	0255	36	18.	26.5	3162.9	*	1	1115	136	180.	1938.7	3211.4	*	1	1935	236	176.	1816.2	3209.5
1	0300	37	21.	31.2	3163.1	*	1	1120	137	180.	1937.5	3211.4	*	1	1940	237	176.	1815.0	3209.5
1	0305	38	23.	36.7	3163.4	*	1	1125	138	180.	1936.2	3211.4	*	1	1945	238	176.	1813.7	3209.5
1	0310	39	26.	43.0	3163.7	*	1	1130	139	180.	1935.0	3211.4	*	1	1950	239	176.	1812.5	3209.4
1	0315	40	30.	50.4	3164.1	*	1	1135	140	180.	1933.8	3211.4	*	1	1955	240	176.	1811.3	3209.4
1	0320	41	34.	58.9	3164.5	*	1	1140	141	180.	1932.5	3211.3	*	1	2000	241	176.	1810.1	3209.4
1	0325	42	39.	69.0	3165.1	*	1	1145	142	180.	1931.3	3211.3	*	1	2005	242	176.	1808.9	3209.4
1	0330	43	45.	81.1	3165.7	*	1	1150	143	180.	1930.0	3211.3	*	1	2010	243	176.	1807.7	3209.4
1	0335	44	52.	95.6	3166.4	*	1	1155	144	180.	1928.8	3211.3	*	1	2015	244	176.	1806.5	3209.3
1	0340	45	58.	112.3	3167.2	*	1	1200	145	180.	1927.6	3211.3	*	1	2020	245	176.	1805.3	3209.3
1	0345	46	61.	130.6	3168.0	*	1	1205	146	179.	1926.3	3211.2	*	1	2025	246	176.	1804.1	3209.3
1	0350	47	65.	150.6	3168.8	*	1	1210	147	179.	1925.1	3211.2	*	1	2030	247	176.	1802.9	3209.3
1	0355	48	69.	173.0	3169.7	*	1	1215	148	179.	1923.9	3211.2	*	1	2035	248	176.	1801.6	3209.3
1	0400	49	74.	198.5	3170.7	*	1	1220	149	179.	1922.6	3211.2	*	1	2040	249	175.	1800.4	3209.2
1	0405	50	79.	227.3	3171.9	*	1	1225	150	179.	1921.4	3211.2	*	1	2045	250	175.	1799.2	3209.2
1	0410	51	84.	259.7	3173.0	*	1	1230	151	179.	1920.2	3211.1	*	1	2050	251	175.	1798.0	3209.2
1	0415	52	89.	295.9	3174.3	*	1	1235	152	179.	1918.9	3211.1	*	1	2055	252	175.	1796.8	3209.2
1	0420	53	94.	336.2	3175.7	*	1	1240	153	179.	1917.7	3211.1	*	1	2100	253	175.	1795.6	3209.2
1	0425	54	100.	380.9	3177.3	*	1	1245	154	179.	1916.5	3211.1	*	1	2105	254	175.	1794.4	3209.1
1	0430	55	105.	430.0	3178.8	*	1	1250	155	179.	1915.2	3211.1	*	1	2110	255	175.	1793.2	3209.1
1	0435	56	110.	483.6	3180.6	*	1	1255	156	179.	1914.0	3211.0	*	1	2115	256	175.	1792.0	3209.1
1	0440	57	115.	541.6	3182.4	*	1	1300	157	179.	1912.8	3211.0	*	1	2120	257	175.	1790.8	3209.1
1	0445	58	120.	603.5	3184.1	*	1	1305	158	179.	1911.5	3211.0	*	1	2125	258	175.	1789.6	3209.1
1	0450	59	125.	668.6	3186.0	*	1	1310	159	179.	1910.3	3211.0	*	1	2130	259	175.	1788.4	3209.1
1	0455	60	130.	735.9	3187.8	*	1	1315	160	179.	1909.1	3211.0	*	1	2135	260	175.	1787.2	3209.0
1	0500	61	134.	804.1	3189.5	*	1	1320	161	179.	1907.8	3210.9	*	1	2140	261	175.	1786.0	3209.0
1	0505	62	138.	872.2	3191.2	*	1	1325	162	179.	1906.6	3210.9	*	1	2145	262	175.	1784.7	3209.0
1	0510	63	142.	939.0	3192.8	*	1	1330	163	179.	1905.4	3210.9	*	1	2150	263	175.	1783.5	3209.0
1	0515	64	145.	1004.1	3194.3	*	1	1335	164	179.	1904.1	3210.9	*	1	2155	264	175.	1782.3	3209.0
1	0520	65	148.	1067.1	3195.7	*	1	1340	165	179.	1902.9	3210.9	*	1	2200	265	175.	1781.1	3208.9
1	0525	66	151.	1127.9	3197.1	*	1	1345	166	179.	1901.7	3210.9	*	1	2205	266	175.	1779.9	3208.9
1	0530	67	154.	1186.4	3198.2	*	1	1350	167	179.	1900.4	3210.8	*	1	2210	267	175.	1778.7	3208.9
1	0535	68	156.	1242.7	3199.3	*	1	1355	168	179.	1899.2	3210.8	*	1	2215	268	175.	1777.5	3208.9
1	0540	69	159.	1297.1	3200.4	*	1	1400	169	179.	1898.0	3210.8	*	1	2220	269	175.	1776.3	3208.9
1	0545	70	161.	1349.6	3201.5	*	1	1405	170	179.	1896.7	3210.8	*	1	2225	270	175.	1775.1	3208.8
1	0550	71	163.	1400.6	3202.4	*	1	1410	171	179.	1895.5	3210.8	*	1	2230	271	175.	1773.9	3208.8
1	0555	72	164.	1450.3	3203.3	*	1	1415	172	178.	1894.3	3210.7	*	1	2235	272	175.	1772.7	3208.8
1	0600	73	166.	1498.7	3204.2	*	1	1420	173	178.	1893.1	3210.7	*	1	2240	273	175.	1771.5	3208.8
1	0605	74	167.	1545.6	3205.0	*	1	1425	174	178.	1891.8	3210.7	*	1	2245	274	175.	1770.3	3208.8
1	0610	75	169.	1590.7	3205.8	*	1	1430	175	178.	1890.6	3210.7	*	1	2250	275	174.	1769.1	3208.7
1	0615	76	170.	1633.8	3206.6	*	1	1435	176	178.	1889.4	3210.7	*	1	2255	276	174.	1767.9	3208.7
1	0620	77	171.	1674.5	3207.2	*	1	1440	177	178.	1888.1	3210.6	*	1	2300	277	174.	1766.7	3208.7
1	0625	78	173.	1712.3	3207.8	*	1	1445	178	178.	1886.9	3210.6	*	1	2305	278	174.	1765.5	3208.7
1	0630	79	174.	1747.1	3208.4	*	1	1450	179	178.	1885.7	3210.6	*	1	2310	279	174.	1764.3	3208.7
1	0635	80	175.	1778.8	3208.9	*	1	1455	180	178.	1884.5	3210.6	*	1	2315	280	174.	1763.1	3208.7
1	0640	81	176.	1807.1	3209.4	*	1	1500	181	178.	1883.2	3210.6	*	1	2320	281	174.	1761.9	3208.6
1	0645	82	177.	1832.3	3209.8	*	1	1505	182	178.	1882.0	3210.5	*	1	2325	282	174.	1760.7	3208.6
1	0650	83	177.	1854.5	3210.1	*	1	1510	183	178.	1880.8	3210.5	*	1	2330	283	174.	1759.5	3208.6
1	0655	84	178.	1873.9	3210.4	*	1	1515	184	178.	1879.6	3210.5	*	1	2335	284	174.	1758.3	3208.6
1	0700	85	178.	1890.9	3210.7	*	1	1520	185	178.	1878.3	3210.5	*	1	2340	285	174.	1757.1	3208.6
1	0705	86	179.	1905.5	3210.9	*	1	1525	186	178.	1877.1	3210.5	*	1	2345	286	174.	1755.9	3208.5
1	0710	87	179.	1918.2	3211.1	*	1	1530	187	178.	1875.9	3210.4	*	1	2350	287	174.	1754.7	3208.5
1	0715	88	180.	1929.1	3211.3	*	1	1535	188	178.	1874.7	3210.4	*	1	2355	288	174.	1753.5	3208.5
1	0720	89	180.	1938.4	3211.4	*	1	1540	189	178.	1873.4	3210.4	*	2	0000	289	174.	1752.3	3208.5
1	0725	90	180.	1946.3	3211.6	*	1	1545	190	178.	1872.2	3210.4	*	2	0005	290	174.	1751.1	3208.5
1	0730	91	180.	1952.9	3211.7	*	1	1550	191	178.	1871.0	3210.4	*	2	0010	291	174.	1749.9	3208.4
1	0735	92	181.	1958.4	3211.8	*	1	1555	192	178.	1869.8	3210.3	*	2	0015	292	174.	1748.7	3208.4
1	0740	93	181.	1963.0	3211.8	*	1	1600	193	178.	1868.5	3210.3	*	2	0020	293	174.	1747.5	3208.4
1	0745	94	181.	1966.6	3211.9	*	1	1605	194	178.	1867.3	3210.3	*	2	0025	294	174.	1746.3	3208.4
1	0750	95	181.	1969.5	3211.9	*	1	1610	195	178.	1866.1	3210.3	*	2	0030	295	174.	1745.1	3208.4
1	0755	96	181.	1971.7	3212.0	*	1	1615	196	178.	1864.9	3210.3	*	2	0035	296	174.	1743.9	3208.3
1	0800	97	181.	1973.4	3212.0	*	1	1620	197	177.	1863.6	3210.2	*	2	0040	297	174.	1742.7	3208.3
1	0805	98	181.	1974.6	3212.0	*	1	1625	198	177.	1862.4	3210.2	*	2	0045	298	174.	1741.5	3208.3
1	0810	99	181.	1975.4	3212.0	*	1	1630	199	177.	1861.2	3210.2	*	2	0050	299	174.	1740.3	3208.3
1	0815	100	181.	1975.8	3212.0	*	1	1635	200	177.	1860.0	3210.2	*	2	0055	300	174.	1739.1	3208.3
						*							*						

****

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 181.	8.33		180.	153.	147.	147.
		(INCHES)	.031	.104	.104	.104
		(AC-FT)	89.	303.	303.	303.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
1976.	8.33	1949.	1538.	1481.	1481.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3212.03	8.33	3211.60	3202.32	3200.80	3200.80

CUMULATIVE AREA = 54.73 SQ MI

1

PEAK FLOW AND STAGE (END-OF-PERIOD) SUMMARY FOR MULTIPLE PLAN-RATIO ECONOMIC COMPUTATIONS
FLOWS IN CUBIC FEET PER SECOND, AREA IN SQUARE MILES
TIME TO PEAK IN HOURS

OPERATION	STATION	AREA	PLAN		RATIOS APPLIED TO PRECIPITATION RATIO 1	RATIO 2	RATIO 3	RATIO 4	RATIO 5	RATIO 6	RATIO 7	RATIO 8
					.83	.80	.76	.73	.69	.64	.58	.53
HYDROGRAPH AT												
+	RR1	4.22	1	FLOW	2615.	2484.	2303.	2118.	1981.	1732.	1465.	1248.
				TIME	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83
HYDROGRAPH AT												
+	RR2	3.55	1	FLOW	2060.	1958.	1817.	1673.	1566.	1371.	1163.	993.
				TIME	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92
ROUTED TO												
+	RRR2	3.55	1	FLOW	2043.	1942.	1801.	1659.	1554.	1363.	1158.	992.
				TIME	3.92	3.92	3.92	4.00	4.00	4.00	4.00	4.00
2 COMBINED AT												
+	CRR2	7.77	1	FLOW	4577.	4347.	4030.	3710.	3473.	3040.	2578.	2202.
				TIME	3.83	3.83	3.92	3.92	3.92	3.92	3.92	3.92
ROUTED TO												
+	RCRR2	7.77	1	FLOW	4363.	4146.	3844.	3538.	3309.	2895.	2451.	2091.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
HYDROGRAPH AT												
+	RR5	7.13	1	FLOW	3876.	3691.	3434.	3172.	2976.	2620.	2238.	1926.
				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
ROUTED TO												
+	R-RR5	7.13	1	FLOW	3743.	3565.	3318.	3066.	2878.	2536.	2169.	1868.
				TIME	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25
HYDROGRAPH AT												
+	RR3	14.98	1	FLOW	6652.	6320.	5861.	5393.	5045.	4413.	3738.	3188.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
3 COMBINED AT												
+	CRR3	29.89	1	FLOW	14758.	14029.	13019.	11989.	11223.	9833.	8344.	7131.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
ROUTED TO												
+	RCRR3	29.89	1	FLOW	14036.	13345.	12387.	11410.	10683.	9364.	7950.	6798.
				TIME	4.67	4.67	4.67	4.67	4.67	4.67	4.67	4.67
HYDROGRAPH AT												
+	RR10	8.77	1	FLOW	3003.	2844.	2624.	2400.	2235.	1936.	1618.	1361.
				TIME	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33
2 COMBINED AT												
+	CRR10	38.66	1	FLOW	16673.	15847.	14702.	13536.	12668.	11093.	9407.	8035.
				TIME	4.67	4.67	4.67	4.67	4.67	4.67	4.67	4.67
ROUTED TO												
+	RCRR10	38.66	1	FLOW	16165.	15361.	14247.	13112.	12267.	10736.	9096.	7762.
				TIME	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
HYDROGRAPH AT												
+	RR12A	5.82	1	FLOW	2545.	2419.	2245.	2067.	1935.	1695.	1438.	1229.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
ROUTED TO												
+	R-RR12A	5.82	1	FLOW	2478.	2355.	2185.	2012.	1883.	1649.	1398.	1194.
				TIME	4.42	4.42	4.42	4.42	4.42	4.42	4.42	4.42
HYDROGRAPH AT												
+	104A	3.39	1	FLOW	915.	857.	778.	699.	640.	536.	429.	345.
				TIME	4.25	4.25	4.25	4.25	4.25	4.25	4.33	4.33
3 COMBINED AT												
+	C104A	47.87	1	FLOW	18613.	17688.	16406.	15101.	14130.	12368.	10483.	8949.

				TIME	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
HYDROGRAPH AT												
+	RD1	.43	1	FLOW	327.	311.	288.	265.	247.	216.	182.	155.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
ROUTED TO												
+	R-RD1	.43	1	FLOW	314.	298.	275.	255.	236.	210.	177.	148.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT												
+	RD2	.47	1	FLOW	443.	424.	398.	370.	350.	313.	272.	239.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT												
+	CRD2	.90	1	FLOW	743.	708.	659.	609.	572.	507.	434.	373.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
ROUTED TO												
+	RCRD2	.90	1	FLOW	702.	674.	626.	582.	545.	486.	419.	359.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT												
+	RD3	.33	1	FLOW	294.	281.	263.	244.	230.	204.	177.	154.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT												
+	CRD3	1.23	1	FLOW	991.	945.	879.	812.	763.	675.	578.	496.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT												
+	RR14A	4.60	1	FLOW	2064.	1961.	1820.	1676.	1569.	1374.	1166.	996.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
ROUTED TO												
+	R-RR14A	4.60	1	FLOW	2063.	1961.	1819.	1675.	1567.	1372.	1165.	994.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
HYDROGRAPH AT												
+	RD4	.40	1	FLOW	297.	282.	260.	238.	222.	192.	161.	136.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT												
+	CRD4	5.00	1	FLOW	2134.	2027.	1879.	1731.	1619.	1418.	1204.	1028.
				TIME	4.08	4.08	4.17	4.17	4.17	4.17	4.17	4.17
ROUTED TO												
+	RCRD4	5.00	1	FLOW	2131.	2025.	1878.	1729.	1618.	1416.	1201.	1024.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
HYDROGRAPH AT												
+	RD5	.37	1	FLOW	287.	272.	252.	231.	216.	188.	159.	135.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT												
+	CRD5	5.37	1	FLOW	2199.	2087.	1935.	1779.	1664.	1456.	1236.	1054.
				TIME	4.08	4.08	4.08	4.08	4.17	4.17	4.17	4.17
ROUTED TO												
+	RCRD5	5.37	1	FLOW	2195.	2088.	1933.	1779.	1663.	1455.	1232.	1051.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
HYDROGRAPH AT												
+	RD6	.25	1	FLOW	223.	213.	199.	184.	174.	154.	133.	116.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT												
+	CRD6	5.62	1	FLOW	2244.	2133.	1973.	1815.	1698.	1486.	1259.	1075.
				TIME	4.08	4.08	4.08	4.17	4.17	4.17	4.17	4.17
3 COMBINED AT												
+	INRR	54.73	1	FLOW	20803.	19771.	18344.	16886.	15802.	13851.	11769.	10071.
				TIME	4.92	4.92	4.92	4.92	4.92	5.00	5.00	5.00
ROUTED TO												
+	RRDB	54.73	1	FLOW	17909.	16458.	14384.	12317.	10929.	8301.	4516.	181.
				TIME	5.33	5.42	5.58	5.75	5.92	6.25	6.67	8.33
				** PEAK STAGES IN FEET **								
			1	STAGE	3215.13	3214.95	3214.70	3214.45	3214.28	3213.94	3213.27	3212.03
				TIME	5.33	5.42	5.58	5.75	5.92	6.25	6.67	8.33
DIVERSION TO												
+	*D-RROUT	54.73	1	FLOW	17727.	16276.	14202.	12135.	10747.	8119.	4334.	0.
				TIME	5.33	5.42	5.58	5.75	5.92	6.25	6.67	.00
HYDROGRAPH AT												
+	*DOUTRR	54.73	1	FLOW	182.	182.	182.	182.	182.	182.	182.	181.
				TIME	5.08	5.17	5.25	5.42	5.58	5.92	6.42	8.33
ROUTED TO												
+	ROUTRR	54.73	1	FLOW	182.	182.	182.	182.	182.	182.	182.	181.
				TIME	5.33	5.25	5.42	5.58	5.67	6.00	6.58	8.42

HYDROGRAPH AT												
+	R3A	.19	1	FLOW	131.	123.	113.	103.	96.	82.	68.	56.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
2 COMBINED AT												
+	CR3A	54.92	1	FLOW	237.	231.	221.	211.	203.	188.	182.	181.
				TIME	4.83	4.83	4.83	4.83	4.83	4.83	6.58	8.42
ROUTED TO												
+	RCR3A	54.92	1	FLOW	234.	228.	218.	208.	201.	187.	182.	181.
				TIME	4.92	4.92	4.92	5.00	5.00	5.00	6.67	8.50

1

*** NORMAL END OF HEC-1 ***

B.3.11 50-year_RED_ROCK_TRAILS

```
1****************************************
*                                      *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)  *
*              JUN   1998              *
*            VERSION 4.1               *
*                                      *
*  RUN DATE   28JUL20  TIME  08:50:32  *
*                                      *
****************************************
```

```
****************************************
*                                      *
*    U.S. ARMY CORPS OF ENGINEERS      *
*    HYDROLOGIC ENGINEERING CENTER     *
*          609 SECOND STREET           *
*       DAVIS, CALIFORNIA 95616        *
*            (916) 756-1104            *
*                                      *
****************************************
```

```
X     X  XXXXXXX   XXXXX          X
X     X  X        X     X        XX
X     X  X        X              X
XXXXXXX  XXXX     X        XXXXX  X
X     X  X        X              X
X     X  X        X     X        X
X     X  XXXXXXX   XXXXX         XXX
```

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL   LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

1 HEC-1 INPUT PAGE 1

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          LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

                        *DIAGRAM
 *** FREE ***
               1        ID   RED ROCK TRAIL TO FY19-87
               2        ID   US FEDERAL HIGHWAY ADMINISTRATION
               3        ID   PN WXXY4000
               4        ID
               5        ID   FLAMINGO / TROPICANA WASHES WATERSHED
               6        ID   INPUT FILE = RED_ROCK_TRAILS_50YR.DAT
               7        ID   INPUT FILE DATE = JULY 2020
               8        ID   PRECIPITATION VALUES TAKEN FROM NOAA ATLAS 2 &
               9        ID   ADJUSTED PER CCRFCD HYDRAULIC CRITERIA & DRAINAGE DESIGN MANUAL TABLE 501
              10        ID   DESIGN STORM = 50-YEAR, 6-HOUR STORM
              11        ID   STORM DISTRIBUTION = SDN3
              12        ID     MODELED BY JACOBS/CH2M (JAMES MONROE AND CESAR BRAMBILA)
              13        ID
              14        ID     JR CARDS CONTAIN DARFS BASED ON THE FOLLOWING VALUES:
              15        ID
              16        ID     AREA (SQUARE MILES)    DARF
              17        ID
              18        ID           0.5 - 1              0.975
              19        ID           4 - 5                0.908
              20        ID
              21        ID
              22        IT       5       0       0     550
              23        IO       5       0       0
              24        IN       5       0       0
              25        JR    PREC   0.975   0.908
                        *

              26        KK   SUB-A
              27        BA   4.567
              28        PB    3.20
              29        PC   0.000   0.020   0.057   0.070   0.087   0.108   0.124   0.130   0.130   0.130
              30        PC   0.130   0.130   0.130   0.133   0.140   0.142   0.148   0.158   0.172   0.181
              31        PC   0.190   0.197   0.199   0.200   0.201   0.204   0.214   0.229   0.241   0.249
              32        PC   0.251   0.256   0.270   0.278   0.281   0.283   0.295   0.322   0.352   0.409
              33        PC   0.499   0.590   0.710   0.744   0.781   0.812   0.819   0.835   0.851   0.856
              34        PC   0.860   0.868   0.876   0.888   0.910   0.926   0.937   0.950   0.970   0.976
              35        PC   0.982   0.985   0.987   0.989   0.990   0.993   0.993   0.994   0.995   0.998
              36        PC   0.998   0.999   1.000
              37        LS       0    87.3
              38        UD   1.043
                        *

              39        KK   SUB-B
              40        BA   0.675
              41        PB    3.06
              42        LS       0    85.0
              43        UD   0.435
                        *
              44        ZZ
```

1 SCHEMATIC DIAGRAM OF STREAM NETWORK

```
 INPUT
  LINE      (V) ROUTING          (--->) DIVERSION OR PUMP FLOW

   NO.      (.) CONNECTOR        (<---) RETURN OF DIVERTED OR PUMPED FLOW

    26       SUB-A
                .
                .
    39          .       SUB-B

  (***) RUNOFF ALSO COMPUTED AT THIS LOCATION
```

```
1****************************************
*                                      *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)  *
*              JUN   1998              *
*            VERSION 4.1               *
*                                      *
*  RUN DATE   28JUL20  TIME  08:50:32  *
*                                      *
****************************************
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```
****************************************
*                                      *
*    U.S. ARMY CORPS OF ENGINEERS      *
*    HYDROLOGIC ENGINEERING CENTER     *
*          609 SECOND STREET           *
*       DAVIS, CALIFORNIA 95616        *
*            (916) 756-1104            *
*                                      *
****************************************
```

RED ROCK TRAIL TO FY19-87
US FEDERAL HIGHWAY ADMINISTRATION
PN WXXY4000

FLAMINGO / TROPICANA WASHES WATERSHED
INPUT FILE = RED_ROCK_TRAILS_50YR.DAT
INPUT FILE DATE = JULY 2020
PRECIPITATION VALUES TAKEN FROM NOAA ATLAS 2 &
ADJUSTED PER CCRFCD HYDRAULIC CRITERIA & DRAINAGE DESIGN MANUAL TABLE 501
DESIGN STORM = 50-YEAR, 6-HOUR STORM
STORM DISTRIBUTION = SDN3
  MODELED BY JACOBS/CH2M (JAMES MONROE AND CESAR BRAMBILA)

  JR CARDS CONTAIN DARFS BASED ON THE FOLLOWING VALUES:

  AREA (SQUARE MILES)   DARF

        0.5 - 1   0.975
        4 - 5   0.908

```
 23 IO          OUTPUT CONTROL VARIABLES
                      IPRNT          5  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL          0.  HYDROGRAPH PLOT SCALE

 IT          HYDROGRAPH TIME DATA
                       NMIN          5  MINUTES IN COMPUTATION INTERVAL
                      IDATE      1    0  STARTING DATE
                      ITIME         0000  STARTING TIME
                         NQ        550  NUMBER OF HYDROGRAPH ORDINATES
                      NDDATE     2    0  ENDING DATE
                      NDTIME       2145  ENDING TIME
                      ICENT         19  CENTURY MARK

                    COMPUTATION INTERVAL     .08 HOURS
                       TOTAL TIME BASE   45.75 HOURS

                  ENGLISH UNITS
                       DRAINAGE AREA         SQUARE MILES
                       PRECIPITATION DEPTH   INCHES
                       LENGTH, ELEVATION     FEET
                       FLOW                  CUBIC FEET PER SECOND
                       STORAGE VOLUME        ACRE-FEET
                       SURFACE AREA          ACRES
                       TEMPERATURE           DEGREES FAHRENHEIT

 JP          MULTI-PLAN OPTION
                       NPLAN          1  NUMBER OF PLANS

 JR          MULTI-RATIO OPTION
                     RATIOS OF PRECIPITATION
                     .98       .91
```

1

PEAK FLOW AND STAGE (END-OF-PERIOD) SUMMARY FOR MULTIPLE PLAN-RATIO ECONOMIC COMPUTATIONS
FLOWS IN CUBIC FEET PER SECOND, AREA IN SQUARE MILES
TIME TO PEAK IN HOURS

OPERATION	STATION	AREA	PLAN		RATIOS APPLIED TO PRECIPITATION RATIO 1	RATIO 2
					.98	.91
HYDROGRAPH AT						
+	SUB-A	4.57	1	FLOW	2563.	2311.
				TIME	4.50	4.50
HYDROGRAPH AT						
+	SUB-B	.68	1	FLOW	563.	504.
				TIME	3.92	3.92

B.3.12 100-year_FLAM3A

```
1****************************************

 *                                      *
 *   FLOOD HYDROGRAPH PACKAGE  (HEC-1)  *
 *              JUN   1998              *
 *           VERSION 4.1                *
 *                                      *
 *  RUN DATE   20MAY20  TIME  09:44:59  *
 *                                      *
 ****************************************
```

```
**************************************
*                                    *
*   U.S. ARMY CORPS OF ENGINEERS     *
*   HYDROLOGIC ENGINEERING CENTER    *
*        609 SECOND STREET           *
*      DAVIS, CALIFORNIA 95616       *
*          (916) 756-1104            *
*                                    *
**************************************
```

```
X     X  XXXXXXX   XXXXX           X
X     X  X        X     X         XX
X     X  X        X               X
XXXXXXX  XXXX     X        XXXXX  X
X     X  X        X               X
X     X  X        X     X         X
X     X  XXXXXXX   XXXXX          XXX
```

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL   LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM


```
          LINE      ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

                    *DIAGRAM
 *** FREE ***
               1    ID   RED ROCK TRAIL TO FY19-87
               2    ID   US FEDERAL HIGHWAY ADMINISTRATION
               3    ID   PN=WXXY4000
               4    ID
               5    ID   HEC-1 MODEL TAKEN FROM CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT
               6    ID   2018 MASTER PLAN UPDATE
               7    ID   FLAMINGO / TROPICANA WASHES WATERSHED
               8    ID   RECOMMENDED DRAINAGE SYSTEM WITH ULTIMATE DEVELOPMENT
               9    ID   INPUT FILE = FLAM3A.DAT
              10    ID   INPUT FILE DATE = DECEMBER 2019
              11    ID   DESIGN STORM = 100-YEAR, 6-HOUR STORM
              12    ID   PRECIPITATION VALUES TAKEN FROM NOAA ATLAS 2 &
              13    ID   ADJUSTED PER CCRFCD HYDRAULIC CRITERIA & DRAINAGE DESIGN MANUAL TABLE 501
              14    ID   STORM DISTRIBUTION = SDN3
              15    ID   STORM CENTERING = SERIES A: REGIONAL DETENTION BASIN FLOWS NOT DIVERTED OUT
              16    ID   MODELED BY JACOBS (DAVE BERGH, PE)
              17    ID
              18    ID   JR CARDS CONTAIN DARFS BASED ON THE FOLLOWING VALUES:
              19    ID
              20    ID         AREA    DARF
              21    ID         SQ.MI.
              22    ID                 SDN 3   SDN 4   SDN 5
              23    ID         0 - 0.5 0.990
              24    ID         0.5 - 1 0.975
              25    ID         1 - 2   0.950
              26    ID         2 - 3   0.925
              27    ID         3 - 4   0.915
              28    ID         4 - 5   0.908
              29    ID         5 - 6   0.903
              30    ID         6 - 7   0.895
              31    ID         7 - 8   0.885
              32    ID         8 - 9           0.875
              33    ID         9 - 10          0.865
              34    ID         10 - 11         0.857
              35    ID         11 - 12         0.850
              36    ID         12 - 16                 0.832
              37    ID         16 - 20                 0.804
              38    ID         20 - 30                 0.765
              39    ID         30 - 40                 0.725
              40    ID         40 - 50                 0.695
              41    ID         50 - 100                0.640
              42    ID         100 - 150               0.580
              43    ID         150 - 200               0.530
              44    ID
              45    IT      5       0       0     300
              46    IO      5       0       0
              47    IN      5       0       0
              48    JR    PREC    0.99   0.975    0.95   0.925   0.915   0.908   0.903   0.895   0.885
                    *
```



```
          LINE      ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

              49    KK     RR1
              50    BA   4.225
              51    PB    4.16
              52    PC   0.000   0.020   0.057   0.070   0.087   0.108   0.124   0.130   0.130   0.130
              53    PC   0.130   0.130   0.130   0.133   0.140   0.142   0.148   0.158   0.172   0.181
              54    PC   0.190   0.197   0.199   0.200   0.201   0.204   0.214   0.229   0.241   0.249
              55    PC   0.251   0.256   0.270   0.278   0.281   0.283   0.295   0.322   0.352   0.409
              56    PC   0.499   0.590   0.710   0.744   0.781   0.812   0.819   0.835   0.851   0.856
              57    PC   0.860   0.868   0.876   0.888   0.910   0.926   0.937   0.950   0.970   0.976
              58    PC   0.982   0.985   0.987   0.989   0.990   0.993   0.993   0.994   0.995   0.998
              59    PC   0.998   0.999   1.000
              60    LS       0    85.8
              61    UD   0.443
                    *
              62    KK     RR2
              63    BA   3.547
              64    PB    4.18
              65    LS       0    86.2
              66    UD   0.545
                    *
              67    KK    RRR2
              68    KM   MUSKINGUM ROUTING UNSTABLE - USED MUSKINGUM-CUNGE
              69    KM   NATURAL WASH
              70    RD    1700   0.076    0.04       0    TRAP     100       2
                    *
              71    KK    CRR2
              72    KM   COMBINE RR1 AND RRR2
              73    HC       2
                    *
              74    KK   RCRR2
              75    KM   ROUTE CRR2 TO CRR3
              76    KM   NATURAL WASH
              77    KM   TRAVEL LENGTH = 15850
              78    KM   SLOPE = 0.043
              79    KM   N = 0.04
              80    KM   HYDRAULIC RADIUS = 1.5
              81    KM   VELOCITY = 16.2
              82    RM       3   0.272    0.15
                    *
              83    KK     RR5
              84    BA   7.132
              85    PB    3.91
              86    LS       0    87.9
              87    UD   0.615
                    *
```



```
          LINE      ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

              88    KK   R-RR5
              89    KM   ROUTE RR5 THROUGH RR3 TO CRR3
              90    KM   NATURAL WASH
              91    KM   TRAVEL LENGTH = 10700
              92    KM   SLOPE = 0.037
              93    KM   N = 0.04
              94    KM   HYDRAULIC RADIUS = 1.5
              95    KM   VELOCITY = 15
              96    RM       2   0.198    0.15
                    *
              97    KK     RR3
              98    BA  14.983
              99    PB    3.82
             100    LS       0      87
             101    UD   0.761
                    *
             102    KK    CRR3
             103    KM   COMBINE RCRR2, R-RR5, AND RR3
             104    HC       3
                    *
             105    KK   RCRR3
             106    KM   ROUTE CRR3 THROUGH RR10 TO CRR10
             107    KM   NATURAL WASH
             108    KM   TRAVEL LENGTH = 20700
             109    KM   SLOPE = 0.025
             110    KM   N = 0.04
             111    KM   HYDRAULIC RADIUS = 1.5
             112    KM   VELOCITY = 12.3
             113    RM       6   0.466    0.15
                    *
             114    KK    RR10
             115    BA   8.775
             116    PB    3.44
             117    LS       0    86.1
             118    UD   0.882
```

```
                 *

                 KK   CRR10
                 KM   COMBINE RCRR3 AND RR10
                 HC       2
                 *

                 KK  RCRR10
                 KM   ROUTE CRR10 THROUGH 104A TO C104A (RED ROCK DETENTION BASIN)
                 KM   NATURAL WASH
                 KM   TRAVEL LENGTH = 14500
                 KM   SLOPE = 0.021
                 KM   N = 0.04
                 KM   HYDRAULIC RADIUS = 1.5
                 KM   VELOCITY = 11.3
1                                    HEC-1 INPUT                                    PAGE  4

            LINE     ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

                 RM       4   0.356    0.15
                 *

                 KK   RR12A
                 BA   5.821
                 PB    3.53
                 LS       0    87.6
                 UD   0.728
                 *

                 KK R-RR12A
                 KM   ROUTE RR12A THROUGH 104A TO C104A (RED ROCK DETENTION BASIN)
                 KM   NATURAL WASH
                 KM   TRAVEL LENGTH = 12000
                 KM   SLOPE = 0.026
                 KM   N = 0.04
                 KM   HYDRAULIC RADIUS = 1.5
                 KM   VELOCITY = 12.6
                 RM       3   0.265    0.15
                 *

                 KK    104A
                 BA   3.391
                 PB    3.34
                 LS       0    81.3
                 UD   0.801
                 *

                 KK   C104A
                 KM   COMBINE RCRR10, R-RR12A, AND 104A
                 HC       3
                 *

                 KK     RD1
                 BA   0.431
                 PB    3.51
                 LS       0    86.6
                 UD   0.195
                 *

                 KK   R-RD1
                 KM   ROUTE RD1 THROUGH RD2 TO CRD2
                 KM   FUTURE CONCRETE CHANNEL
                 RD    5100   0.061   0.015       0    TRAP      12       2
                 *

                 KK     RD2
                 BA   0.473
                 PB    3.42
                 LS       0    91.2
                 UD   0.167
                 *
1                                    HEC-1 INPUT                                    PAGE  5

            LINE     ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

                 KK    CRD2
                 KM   COMBINE R-RD1 AND RD2
                 HC       2
                 *

                 KK   RCRD2
                 KM   ROUTE CRD2 TO CRD3 (RED ROCK DETENTION BASIN)
                 KM   FUTURE CONCRETE CHANNEL
                 RD    4600    0.05   0.015       0    TRAP      12       2
                 *

                 KK     RD3
                 BA    0.33
                 PB    3.36
                 LS       0    90.3
                 UD   0.168
                 *

                 KK    CRD3
                 KM   COMBINE RCRD2 AND RD3
                 HC       2
                 *

                 KK   RR14A
                 BA   4.602
                 PB    3.75
                 LS       0    87.3
                 UD   0.725
                 *

                 KK R-RR14A
                 KM   ROUTE RR14A THROUGH RD4 TO CRD4
                 KM   FUTURE CONCRETE CHANNEL
                 RD    5500   0.071   0.015       0    TRAP      12       2
                 *

                 KK     RD4
                 BA   0.402
                 PB    3.49
                 LS       0    85.1
                 UD   0.177
                 *

                 KK    CRD4
                 KM   COMBINE R-RR14A AND RD4
                 HC       2
                 *

                 KK   RCRD4
                 KM   ROUTE CRD4 THROUGH RD5 TO CRD5
                 KM   FUTURE CONCRETE CHANNEL
                 RD    4550   0.067   0.015       0    TRAP      20       2
                 *
1                                    HEC-1 INPUT                                    PAGE  6

            LINE     ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

                 KK     RD5
                 BA    0.37
                 PB    3.42
                 LS       0    86.2
                 UD   0.163
                 *

                 KK    CRD5
                 KM   COMBINE RCRD4 AND RD5
                 HC       2
                 *

                 KK   RCRD5
                 KM   ROUTE CRD5 THROUGH RD6 TO CRD6 (RED ROCK DETENTION BASIN)
                 KM   FUTURE CONCRETE CHANNEL
                 RD    5600   0.047   0.015       0    TRAP      20       2
                 *

                 KK     RD6
                 BA    0.25
                 PB    3.36
                 LS       0      90
                 UD    0.16
                 *

                 KK    CRD6
                 KM   COMBINE RCRD5 AND RD6
                 HC       2
                 *

                 KK    INRR
                 KM   COMBINE C104A, CRD3, AND CRD6 - TOTAL INFLOW TO RED ROCK DETENTION BASIN
                 KO       1
                 HC       3
                 * ============================================================

                 KK    RRDB
                 KM   RED ROCK DETENTION BASIN
                 KM   TAKEN FROM THE CORP MODELS FOR RED ROCK DETENTION BASIN
                 KM   100YR COMPUTED PROBABILITY DETENTION DESIGN
                 KM   FACILITY ID-MILE = RRWA 0716
                 KM   STORAGE VOLUME = 2007 ACRE-FEET
                 KM   OUTLET = 27"H x 27"W RCB ORIFICE
                 KM   100-YR DISCHARGE = 182 CFS
                 KM   SPILLWAY LENGTH = 600 FT
                 KM   AUXILLARY OGEE SPILLWAY LENGTH = 323 FT
                 KM   SPILLWAY CREST ELEVATION = 3212.5 FT NGVD
                 KM   PMF DISCHARGE = 110000 CFS
                 KM   TOP OF DAM ELEVATION = 3225 FT NGVD
                 KO       1
                 RS       1    STOR      -1
                 SV       0       9     107     231     372     529     705     903    1125    1376
                 SV    1659    1974    2007    2115    2331    2690    2933
                 SQ       0      10      57      80      99     114     128     140     151     162
```

```
  LINE          ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

  245           SQ     171     181     182    8654   33270  110918  163477
  246           SE    3161    3162    3167    3172    3177    3182    3187    3192    3197    3202
  247           SE    3207    3212  3212.5    3214    3217    3222    3225
                * ========================================================

  248           KK *DOUTRR
  249           KM   DIVERT SPILLWAY OVERFLOW IN EXCESS OF CORPS DESIGN OUTFLOW
  250           DT*D-RROUT
  251           DI       0     182    3000    5000   10000
  252           DQ       0       0    2818    4818    9818
                *

  253           KK  ROUTRR
  254           KM   ROUTE OUTFLOW FROM RED ROCK DETENTION BASIN THROUGH R3A TO CR3A
  255           KM   FACILITY = RED ROCK CHANNEL
  256           KM   FACILITY # = RRWA 0714, 0709, 0701
  257           KM   LINING = RCP
  258           KM   LINING = RIPRAP CHNL 10'W X 6'D; 2:1SS
  259           RD    1500   0.008    0.04       0    TRAP      10       2
                *

  260           KK     R3A
  261           BA   0.186
  262           PB    3.28
  263           LS       0    84.3
  264           UD    0.11
                *

  265           KK    CR3A
  266           KM   COMBINE OUTFLOW FROM RED ROCK DETENTION BASIN WITH R3A
  267           HC       2
                *

  268           KK   RCR3A
  269           KM   ROUTE CR3A THROUGH UFR1 TO CUFR1
  270           KM   FACILITY = RED ROCK CHANNEL
  271           KM   FACILITY # = RRWA 0695, 0692, 0608, 0607
  272           KM   LINING = RCP
  273           RD    5045  0.0055   0.013       0    CIRC       8       0
                *

  274           ZZ
```

1

SCHEMATIC DIAGRAM OF STREAM NETWORK

INPUT

LINE (V) ROUTING (---->) DIVERSION OR PUMP FLOW

NO. (.) CONNECTOR (<---) RETURN OF DIVERTED OR PUMPED FLOW

```
  49         RR1
               .
               .
  62           .        RR2
               .          V
               .          V
  67           .       RRR2
               .         .
               .         .
  71        CRR2.............
              V
              V
  74       RCRR2
             .
             .
  83          .        RR5
              .          V
              .          V
  88          .     R-RR5
              .         .
              .         .
  97          .         .        RR3
              .         .          .
              .         .          .
 102       CRR3.......................
              V
              V
 105       RCRR3
             .
             .
 114          .       RR10
              .         .
              .         .
 119       CRR10............
              V
              V
 122      RCRR10
             .
             .
 131          .      RR12A
              .         V
              .         V
 136          .    R-RR12A
              .         .
              .         .
 145          .         .       104A
              .         .         .
              .         .         .
 150       C104A.......................
              .
              .
 153          .        RD1
              .         V
              .         V
 158          .      R-RD1
              .         .
              .         .
 162          .         .        RD2
              .         .         .
              .         .         .
 167          .       CRD2............
              .         V
              .         V
 170          .      RCRD2
              .         .
              .         .
 174          .         .        RD3
              .         .         .
              .         .         .
 179          .       CRD3............
              .         .
              .         .
 182          .         .       RR14A
              .         .         V
              .         .         V
 187          .         .    R-RR14A
              .         .         .
              .         .         .
 191          .         .         .        RD4
              .         .         .         .
              .         .         .         .
 196          .         .       CRD4............
              .         .         V
              .         .         V
 199          .         .      RCRD4
              .         .         .
              .         .         .
 203          .         .         .        RD5
              .         .         .         .
              .         .         .         .
 208          .         .       CRD5............
              .         .         V
              .         .         V
 211          .         .      RCRD5
              .         .         .
              .         .         .
 215          .         .         .        RD6
              .         .         .         .
              .         .         .         .
 220          .         .       CRD6............
              .         .         .
              .         .         .
 223       INRR.......................
             V
             V
 227       RRDB
             .
             .
 250         .-------->*D-RROUT
 248     *DOUTRR
             V
             V
 253     ROUTRR
             .
             .
 260         .        R3A
             .         .
             .         .
 265       CR3A............
             V
             V
 268      RCR3A
```

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

```
1*****************************************
 *                                       *
 *   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
 *             JUN   1998                *
 *          VERSION 4.1                  *
 *                                       *
 *  RUN DATE   20MAY20  TIME  09:44:59   *
 *                                       *
 *****************************************

 ***************************************
 *                                     *
 *    U.S. ARMY CORPS OF ENGINEERS     *
 *    HYDROLOGIC ENGINEERING CENTER    *
 *         609 SECOND STREET           *
 *       DAVIS, CALIFORNIA 95616       *
 *           (916) 756-1104            *
 *                                     *
 ***************************************
```

```
RED ROCK TRAIL TO FY19-87
US FEDERAL HIGHWAY ADMINISTRATION
PN=WXXY4000

HEC-1 MODEL TAKEN FROM CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT
2018 MASTER PLAN UPDATE
FLAMINGO / TROPICANA WASHES WATERSHED
RECOMMENDED DRAINAGE SYSTEM WITH ULTIMATE DEVELOPMENT
INPUT FILE = FLAM3A.DAT
INPUT FILE DATE = DECEMBER 2019
DESIGN STORM = 100-YEAR, 6-HOUR STORM
PRECIPITATION VALUES TAKEN FROM NOAA ATLAS 2 &
ADJUSTED PER CCRFCD HYDRAULIC CRITERIA & DRAINAGE DESIGN MANUAL TABLE 501
STORM DISTRIBUTION = SDN3
STORM CENTERING = SERIES A: REGIONAL DETENTION BASIN FLOWS NOT DIVERTED OUT
MODELED BY JACOBS (DAVE BERGH, PE)

JR CARDS CONTAIN DARFS BASED ON THE FOLLOWING VALUES:

       AREA    DARF
       SQ.MI.
               SDN 3   SDN 4   SDN 5
       0 - 0.5 0.990
       0.5 - 1 0.975
       1 - 2   0.950
       2 - 3   0.925
       3 - 4   0.915
       4 - 5   0.908
       5 - 6   0.903
       6 - 7   0.895
       7 - 8   0.885
       8 - 9           0.875
       9 - 10          0.865
       10 - 11         0.857
       11 - 12         0.850
       12 - 16                 0.832
       16 - 20                 0.804
       20 - 30                 0.765
       30 - 40                 0.725
       40 - 50                 0.695
       50 - 100                0.640
       100 - 150               0.580
       150 - 200               0.530

 46 IO         OUTPUT CONTROL VARIABLES
                   IPRNT          5  PRINT CONTROL
                   IPLOT          0  PLOT CONTROL
                   QSCAL          0.  HYDROGRAPH PLOT SCALE

    IT         HYDROGRAPH TIME DATA
                    NMIN          5  MINUTES IN COMPUTATION INTERVAL
                   IDATE      1   0  STARTING DATE
                   ITIME       0000  STARTING TIME
                      NQ        300  NUMBER OF HYDROGRAPH ORDINATES
                  NDDATE      2   0  ENDING DATE
                  NDTIME       0055  ENDING TIME
                   ICENT         19  CENTURY MARK

                COMPUTATION INTERVAL     .08 HOURS
                    TOTAL TIME BASE   24.92 HOURS

          ENGLISH UNITS
               DRAINAGE AREA         SQUARE MILES
               PRECIPITATION DEPTH   INCHES
               LENGTH, ELEVATION     FEET
               FLOW                  CUBIC FEET PER SECOND
               STORAGE VOLUME        ACRE-FEET
               SURFACE AREA          ACRES
               TEMPERATURE           DEGREES FAHRENHEIT

    JP         MULTI-PLAN OPTION
                   NPLAN          1  NUMBER OF PLANS

    JR         MULTI-RATIO OPTION
                   RATIOS OF PRECIPITATION
                   .99      .98      .95      .93      .92      .91      .90      .89      .88

*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

          **************
          *            *
223 KK    *     INRR   *
          *            *
          **************

225 KO         OUTPUT CONTROL VARIABLES
                   IPRNT          1  PRINT CONTROL
                   IPLOT          0  PLOT CONTROL
                   QSCAL          0.  HYDROGRAPH PLOT SCALE

226 HC         HYDROGRAPH COMBINATION
                   ICOMP          3  NUMBER OF HYDROGRAPHS TO COMBINE

                                     ***
```

****

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .99

****

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	1	0615	76	14840.	1	1230	151	0.	1	1845	226	0.
1	0005	2	0.	1	0620	77	13609.	1	1235	152	0.	1	1850	227	0.
1	0010	3	0.	1	0625	78	12384.	1	1240	153	0.	1	1855	228	0.
1	0015	4	0.	1	0630	79	11176.	1	1245	154	0.	1	1900	229	0.
1	0020	5	3.	1	0635	80	10002.	1	1250	155	0.	1	1905	230	0.
1	0025	6	16.	1	0640	81	8884.	1	1255	156	0.	1	1910	231	0.
1	0030	7	44.	1	0645	82	7837.	1	1300	157	0.	1	1915	232	0.
1	0035	8	76.	1	0650	83	6876.	1	1305	158	0.	1	1920	233	0.
1	0040	9	91.	1	0655	84	6006.	1	1310	159	0.	1	1925	234	0.
1	0045	10	87.	1	0700	85	5229.	1	1315	160	0.	1	1930	235	0.
1	0050	11	79.	1	0705	86	4540.	1	1320	161	0.	1	1935	236	0.
1	0055	12	78.	1	0710	87	3933.	1	1325	162	0.	1	1940	237	0.
1	0100	13	89.	1	0715	88	3398.	1	1330	163	0.	1	1945	238	0.
1	0105	14	111.	1	0720	89	2928.	1	1335	164	0.	1	1950	239	0.
1	0110	15	147.	1	0725	90	2514.	1	1340	165	0.	1	1955	240	0.
1	0115	16	193.	1	0730	91	2151.	1	1345	166	0.	1	2000	241	0.
1	0120	17	245.	1	0735	92	1832.	1	1350	167	0.	1	2005	242	0.
1	0125	18	304.	1	0740	93	1552.	1	1355	168	0.	1	2010	243	0.
1	0130	19	386.	1	0745	94	1309.	1	1400	169	0.	1	2015	244	0.
1	0135	20	492.	1	0750	95	1098.	1	1405	170	0.	1	2020	245	0.
1	0140	21	604.	1	0755	96	916.	1	1410	171	0.	1	2025	246	0.
1	0145	22	709.	1	0800	97	761.	1	1415	172	0.	1	2030	247	0.
1	0150	23	802.	1	0805	98	630.	1	1420	173	0.	1	2035	248	0.
1	0155	24	879.	1	0810	99	520.	1	1425	174	0.	1	2040	249	0.
1	0200	25	946.	1	0815	100	428.	1	1430	175	0.	1	2045	250	0.
1	0205	26	1019.	1	0820	101	351.	1	1435	176	0.	1	2050	251	0.
1	0210	27	1114.	1	0825	102	288.	1	1440	177	0.	1	2055	252	0.
1	0215	28	1251.	1	0830	103	236.	1	1445	178	0.	1	2100	253	0.
1	0220	29	1431.	1	0835	104	194.	1	1450	179	0.	1	2105	254	0.
1	0225	30	1625.	1	0840	105	159.	1	1455	180	0.	1	2110	255	0.
1	0230	31	1798.	1	0845	106	130.	1	1500	181	0.	1	2115	256	0.
1	0235	32	1948.	1	0850	107	107.	1	1505	182	0.	1	2120	257	0.
1	0240	33	2119.	1	0855	108	87.	1	1510	183	0.	1	2125	258	0.
1	0245	34	2346.	1	0900	109	71.	1	1515	184	0.	1	2130	259	0.
1	0250	35	2596.	1	0905	110	58.	1	1520	185	0.	1	2135	260	0.
1	0255	36	2809.	1	0910	111	46.	1	1525	186	0.	1	2140	261	0.
1	0300	37	2995.	1	0915	112	37.	1	1530	187	0.	1	2145	262	0.
1	0305	38	3227.	1	0920	113	29.	1	1535	188	0.	1	2150	263	0.
1	0310	39	3575.	1	0925	114	23.	1	1540	189	0.	1	2155	264	0.
1	0315	40	4075.	1	0930	115	18.	1	1545	190	0.	1	2200	265	0.
1	0320	41	4854.	1	0935	116	14.	1	1550	191	0.	1	2205	266	0.
1	0325	42	6022.	1	0940	117	10.	1	1555	192	0.	1	2210	267	0.
1	0330	43	7525.	1	0945	118	8.	1	1600	193	0.	1	2215	268	0.
1	0335	44	9065.	1	0950	119	6.	1	1605	194	0.	1	2220	269	0.
1	0340	45	10143.	1	0955	120	5.	1	1610	195	0.	1	2225	270	0.
1	0345	46	11053.	1	1000	121	4.	1	1615	196	0.	1	2230	271	0.
1	0350	47	12163.	1	1005	122	3.	1	1620	197	0.	1	2235	272	0.
1	0355	48	13536.	1	1010	123	2.	1	1625	198	0.	1	2240	273	0.
1	0400	49	15217.	1	1015	124	2.	1	1630	199	0.	1	2245	274	0.
1	0405	50	17168.	1	1020	125	1.	1	1635	200	0.	1	2250	275	0.
1	0410	51	19258.	1	1025	126	1.	1	1640	201	0.	1	2255	276	0.
1	0415	52	21480.	1	1030	127	1.	1	1645	202	0.	1	2300	277	0.
1	0420	53	23897.	1	1035	128	0.	1	1650	203	0.	1	2305	278	0.
1	0425	54	26494.	1	1040	129	0.	1	1655	204	0.	1	2310	279	0.
1	0430	55	29244.	1	1045	130	0.	1	1700	205	0.	1	2315	280	0.
1	0435	56	32024.	1	1050	131	0.	1	1705	206	0.	1	2320	281	0.
1	0440	57	34588.	1	1055	132	0.	1	1710	207	0.	1	2325	282	0.
1	0445	58	36707.	1	1100	133	0.	1	1715	208	0.	1	2330	283	0.
1	0450	59	38292.	1	1105	134	0.	1	1720	209	0.	1	2335	284	0.
1	0455	60	39255.	1	1110	135	0.	1	1725	210	0.	1	2340	285	0.
1	0500	61	39438.	1	1115	136	0.	1	1730	211	0.	1	2345	286	0.
1	0505	62	38838.	1	1120	137	0.	1	1735	212	0.	1	2350	287	0.
1	0510	63	37572.	1	1125	138	0.	1	1740	213	0.	1	2355	288	0.
1	0515	64	35801.	1	1130	139	0.	1	1745	214	0.	2	0000	289	0.
1	0520	65	33700.	1	1135	140	0.	1	1750	215	0.	2	0005	290	0.
1	0525	66	31436.	1	1140	141	0.	1	1755	216	0.	2	0010	291	0.
1	0530	67	29153.	1	1145	142	0.	1	1800	217	0.	2	0015	292	0.
1	0535	68	26954.	1	1150	143	0.	1	1805	218	0.	2	0020	293	0.
1	0540	69	24912.	1	1155	144	0.	1	1810	219	0.	2	0025	294	0.
1	0545	70	23070.	1	1200	145	0.	1	1815	220	0.	2	0030	295	0.
1	0550	71	21432.	1	1205	146	0.	1	1820	221	0.	2	0035	296	0.
1	0555	72	19956.	1	1210	147	0.	1	1825	222	0.	2	0040	297	0.
1	0600	73	18598.	1	1215	148	0.	1	1830	223	0.	2	0045	298	0.
1	0605	74	17316.	1	1220	149	0.	1	1835	224	0.	2	0050	299	0.
1	0610	75	16072.	1	1225	150	0.	1	1840	225	0.	2	0055	300	0.

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PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 39438.	5.00	13613.	3437.	3310.	3310.
		(INCHES) 2.312	2.335	2.335	2.335
		(AC-FT) 6750.	6817.	6817.	6817.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .98

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	14567.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	13360.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	12158.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	10972.	1		1245	154	0.	1		1900	229	0.
1		0020	5	3.	1		0635	80	9821.	1		1250	155	0.	1		1905	230	0.
1		0025	6	15.	1		0640	81	8723.	1		1255	156	0.	1		1910	231	0.
1		0030	7	41.	1		0645	82	7696.	1		1300	157	0.	1		1915	232	0.
1		0035	8	71.	1		0650	83	6752.	1		1305	158	0.	1		1920	233	0.
1		0040	9	85.	1		0655	84	5898.	1		1310	159	0.	1		1925	234	0.
1		0045	10	82.	1		0700	85	5135.	1		1315	160	0.	1		1930	235	0.
1		0050	11	73.	1		0705	86	4458.	1		1320	161	0.	1		1935	236	0.
1		0055	12	72.	1		0710	87	3862.	1		1325	162	0.	1		1940	237	0.
1		0100	13	82.	1		0715	88	3337.	1		1330	163	0.	1		1945	238	0.
1		0105	14	102.	1		0720	89	2875.	1		1335	164	0.	1		1950	239	0.
1		0110	15	135.	1		0725	90	2469.	1		1340	165	0.	1		1955	240	0.
1		0115	16	179.	1		0730	91	2112.	1		1345	166	0.	1		2000	241	0.
1		0120	17	226.	1		0735	92	1799.	1		1350	167	0.	1		2005	242	0.
1		0125	18	282.	1		0740	93	1525.	1		1355	168	0.	1		2010	243	0.
1		0130	19	359.	1		0745	94	1286.	1		1400	169	0.	1		2015	244	0.
1		0135	20	459.	1		0750	95	1078.	1		1405	170	0.	1		2020	245	0.
1		0140	21	565.	1		0755	96	900.	1		1410	171	0.	1		2025	246	0.
1		0145	22	665.	1		0800	97	748.	1		1415	172	0.	1		2030	247	0.
1		0150	23	753.	1		0805	98	619.	1		1420	173	0.	1		2035	248	0.
1		0155	24	827.	1		0810	99	511.	1		1425	174	0.	1		2040	249	0.
1		0200	25	891.	1		0815	100	420.	1		1430	175	0.	1		2045	250	0.
1		0205	26	961.	1		0820	101	345.	1		1435	176	0.	1		2050	251	0.
1		0210	27	1054.	1		0825	102	283.	1		1440	177	0.	1		2055	252	0.
1		0215	28	1187.	1		0830	103	232.	1		1445	178	0.	1		2100	253	0.
1		0220	29	1362.	1		0835	104	190.	1		1450	179	0.	1		2105	254	0.
1		0225	30	1551.	1		0840	105	156.	1		1455	180	0.	1		2110	255	0.
1		0230	31	1721.	1		0845	106	128.	1		1500	181	0.	1		2115	256	0.
1		0235	32	1867.	1		0850	107	105.	1		1505	182	0.	1		2120	257	0.
1		0240	33	2033.	1		0855	108	86.	1		1510	183	0.	1		2125	258	0.
1		0245	34	2255.	1		0900	109	70.	1		1515	184	0.	1		2130	259	0.
1		0250	35	2498.	1		0905	110	57.	1		1520	185	0.	1		2135	260	0.
1		0255	36	2705.	1		0910	111	46.	1		1525	186	0.	1		2140	261	0.
1		0300	37	2887.	1		0915	112	36.	1		1530	187	0.	1		2145	262	0.
1		0305	38	3113.	1		0920	113	29.	1		1535	188	0.	1		2150	263	0.
1		0310	39	3450.	1		0925	114	23.	1		1540	189	0.	1		2155	264	0.
1		0315	40	3942.	1		0930	115	17.	1		1545	190	0.	1		2200	265	0.
1		0320	41	4702.	1		0935	116	13.	1		1550	191	0.	1		2205	266	0.
1		0325	42	5849.	1		0940	117	10.	1		1555	192	0.	1		2210	267	0.
1		0330	43	7317.	1		0945	118	8.	1		1600	193	0.	1		2215	268	0.
1		0335	44	8827.	1		0950	119	6.	1		1605	194	0.	1		2220	269	0.
1		0340	45	9896.	1		0955	120	5.	1		1610	195	0.	1		2225	270	0.
1		0345	46	10776.	1		1000	121	3.	1		1615	196	0.	1		2230	271	0.
1		0350	47	11864.	1		1005	122	3.	1		1620	197	0.	1		2235	272	0.
1		0355	48	13206.	1		1010	123	2.	1		1625	198	0.	1		2240	273	0.
1		0400	49	14850.	1		1015	124	2.	1		1630	199	0.	1		2245	274	0.
1		0405	50	16766.	1		1020	125	1.	1		1635	200	0.	1		2250	275	0.
1		0410	51	18813.	1		1025	126	1.	1		1640	201	0.	1		2255	276	0.
1		0415	52	20989.	1		1030	127	1.	1		1645	202	0.	1		2300	277	0.
1		0420	53	23358.	1		1035	128	0.	1		1650	203	0.	1		2305	278	0.
1		0425	54	25909.	1		1040	129	0.	1		1655	204	0.	1		2310	279	0.
1		0430	55	28604.	1		1045	130	0.	1		1700	205	0.	1		2315	280	0.
1		0435	56	31335.	1		1050	131	0.	1		1705	206	0.	1		2320	281	0.
1		0440	57	33852.	1		1055	132	0.	1		1710	207	0.	1		2325	282	0.
1		0445	58	35934.	1		1100	133	0.	1		1715	208	0.	1		2330	283	0.
1		0450	59	37494.	1		1105	134	0.	1		1720	209	0.	1		2335	284	0.
1		0455	60	38445.	1		1110	135	0.	1		1725	210	0.	1		2340	285	0.
1		0500	61	38633.	1		1115	136	0.	1		1730	211	0.	1		2345	286	0.
1		0505	62	38052.	1		1120	137	0.	1		1735	212	0.	1		2350	287	0.
1		0510	63	36817.	1		1125	138	0.	1		1740	213	0.	1		2355	288	0.
1		0515	64	35087.	1		1130	139	0.	1		1745	214	0.	2		0000	289	0.
1		0520	65	33034.	1		1135	140	0.	1		1750	215	0.	2		0005	290	0.
1		0525	66	30819.	1		1140	141	0.	1		1755	216	0.	2		0010	291	0.
1		0530	67	28585.	1		1145	142	0.	1		1800	217	0.	2		0015	292	0.
1		0535	68	26433.	1		1150	143	0.	1		1805	218	0.	2		0020	293	0.
1		0540	69	24434.	1		1155	144	0.	1		1810	219	0.	2		0025	294	0.
1		0545	70	22630.	1		1200	145	0.	1		1815	220	0.	2		0030	295	0.
1		0550	71	21026.	1		1205	146	0.	1		1820	221	0.	2		0035	296	0.
1		0555	72	19581.	1		1210	147	0.	1		1825	222	0.	2		0040	297	0.
1		0600	73	18250.	1		1215	148	0.	1		1830	223	0.	2		0045	298	0.
1		0605	74	16995.	1		1220	149	0.	1		1835	224	0.	2		0050	299	0.
1		0610	75	15775.	1		1225	150	0.	1		1840	225	0.	2		0055	300	0.

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 38633.	5.00	13322.	3363.	3239.	3239.
		(INCHES) 2.263	2.285	2.285	2.285
		(AC-FT) 6606.	6670.	6670.	6670.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .95

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	14111.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	12944.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	11781.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	10633.	1		1245	154	0.	1		1900	229	0.
1		0020	5	2.	1		0635	80	9518.	1		1250	155	0.	1		1905	230	0.
1		0025	6	12.	1		0640	81	8455.	1		1255	156	0.	1		1910	231	0.
1		0030	7	37.	1		0645	82	7460.	1		1300	157	0.	1		1915	232	0.
1		0035	8	64.	1		0650	83	6545.	1		1305	158	0.	1		1920	233	0.
1		0040	9	76.	1		0655	84	5718.	1		1310	159	0.	1		1925	234	0.
1		0045	10	73.	1		0700	85	4978.	1		1315	160	0.	1		1930	235	0.
1		0050	11	64.	1		0705	86	4323.	1		1320	161	0.	1		1935	236	0.
1		0055	12	62.	1		0710	87	3745.	1		1325	162	0.	1		1940	237	0.
1		0100	13	70.	1		0715	88	3236.	1		1330	163	0.	1		1945	238	0.
1		0105	14	88.	1		0720	89	2788.	1		1335	164	0.	1		1950	239	0.
1		0110	15	117.	1		0725	90	2394.	1		1340	165	0.	1		1955	240	0.
1		0115	16	156.	1		0730	91	2048.	1		1345	166	0.	1		2000	241	0.
1		0120	17	198.	1		0735	92	1745.	1		1350	167	0.	1		2005	242	0.
1		0125	18	247.	1		0740	93	1479.	1		1355	168	0.	1		2010	243	0.
1		0130	19	317.	1		0745	94	1247.	1		1400	169	0.	1		2015	244	0.
1		0135	20	407.	1		0750	95	1046.	1		1405	170	0.	1		2020	245	0.
1		0140	21	504.	1		0755	96	873.	1		1410	171	0.	1		2025	246	0.
1		0145	22	595.	1		0800	97	726.	1		1415	172	0.	1		2030	247	0.
1		0150	23	676.	1		0805	98	600.	1		1420	173	0.	1		2035	248	0.
1		0155	24	744.	1		0810	99	495.	1		1425	174	0.	1		2040	249	0.
1		0200	25	803.	1		0815	100	408.	1		1430	175	0.	1		2045	250	0.
1		0205	26	869.	1		0820	101	335.	1		1435	176	0.	1		2050	251	0.
1		0210	27	957.	1		0825	102	275.	1		1440	177	0.	1		2055	252	0.
1		0215	28	1083.	1		0830	103	225.	1		1445	178	0.	1		2100	253	0.
1		0220	29	1251.	1		0835	104	185.	1		1450	179	0.	1		2105	254	0.
1		0225	30	1431.	1		0840	105	152.	1		1455	180	0.	1		2110	255	0.
1		0230	31	1592.	1		0845	106	124.	1		1500	181	0.	1		2115	256	0.
1		0235	32	1733.	1		0850	107	102.	1		1505	182	0.	1		2120	257	0.
1		0240	33	1892.	1		0855	108	83.	1		1510	183	0.	1		2125	258	0.
1		0245	34	2103.	1		0900	109	68.	1		1515	184	0.	1		2130	259	0.
1		0250	35	2335.	1		0905	110	55.	1		1520	185	0.	1		2135	260	0.
1		0255	36	2534.	1		0910	111	44.	1		1525	186	0.	1		2140	261	0.
1		0300	37	2708.	1		0915	112	35.	1		1530	187	0.	1		2145	262	0.
1		0305	38	2926.	1		0920	113	28.	1		1535	188	0.	1		2150	263	0.
1		0310	39	3249.	1		0925	114	22.	1		1540	189	0.	1		2155	264	0.
1		0315	40	3719.	1		0930	115	17.	1		1545	190	0.	1		2200	265	0.
1		0320	41	4448.	1		0935	116	13.	1		1550	191	0.	1		2205	266	0.
1		0325	42	5555.	1		0940	117	10.	1		1555	192	0.	1		2210	267	0.
1		0330	43	6968.	1		0945	118	8.	1		1600	193	0.	1		2215	268	0.
1		0335	44	8429.	1		0950	119	6.	1		1605	194	0.	1		2220	269	0.
1		0340	45	9466.	1		0955	120	4.	1		1610	195	0.	1		2225	270	0.
1		0345	46	10317.	1		1000	121	3.	1		1615	196	0.	1		2230	271	0.
1		0350	47	11361.	1		1005	122	3.	1		1620	197	0.	1		2235	272	0.
1		0355	48	12656.	1		1010	123	2.	1		1625	198	0.	1		2240	273	0.
1		0400	49	14245.	1		1015	124	1.	1		1630	199	0.	1		2245	274	0.
1		0405	50	16090.	1		1020	125	1.	1		1635	200	0.	1		2250	275	0.
1		0410	51	18072.	1		1025	126	1.	1		1640	201	0.	1		2255	276	0.
1		0415	52	20175.	1		1030	127	1.	1		1645	202	0.	1		2300	277	0.
1		0420	53	22467.	1		1035	128	0.	1		1650	203	0.	1		2305	278	0.
1		0425	54	24933.	1		1040	129	0.	1		1655	204	0.	1		2310	279	0.
1		0430	55	27542.	1		1045	130	0.	1		1700	205	0.	1		2315	280	0.
1		0435	56	30186.	1		1050	131	0.	1		1705	206	0.	1		2320	281	0.
1		0440	57	32627.	1		1055	132	0.	1		1710	207	0.	1		2325	282	0.
1		0445	58	34648.	1		1100	133	0.	1		1715	208	0.	1		2330	283	0.
1		0450	59	36166.	1		1105	134	0.	1		1720	209	0.	1		2335	284	0.
1		0455	60	37096.	1		1110	135	0.	1		1725	210	0.	1		2340	285	0.
1		0500	61	37290.	1		1115	136	0.	1		1730	211	0.	1		2345	286	0.
1		0505	62	36740.	1		1120	137	0.	1		1735	212	0.	1		2350	287	0.
1		0510	63	35560.	1		1125	138	0.	1		1740	213	0.	1		2355	288	0.
1		0515	64	33899.	1		1130	139	0.	1		1745	214	0.	2		0000	289	0.
1		0520	65	31923.	1		1135	140	0.	1		1750	215	0.	2		0005	290	0.
1		0525	66	29791.	1		1140	141	0.	1		1755	216	0.	2		0010	291	0.
1		0530	67	27639.	1		1145	142	0.	1		1800	217	0.	2		0015	292	0.

1	0535	68	25564.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.					
1	0540	69	23636.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.					
1	0545	70	21897.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.					
1	0550	71	20350.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.					
1	0555	72	18955.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.					
1	0600	73	17671.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.					
1	0605	74	16458.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.					
1	0610	75	15280.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.					
				*					*					*									

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 37290.	5.00	12838.	3239.	3120.	3120.
		(INCHES) 2.181	2.201	2.201	2.201
		(AC-FT) 6366.	6425.	6425.	6425.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .93

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	*	1	0615	76	13656.	*	1	1230	151	0.	*	1	1845	226	0.				
1	0005	2	0.	*	1	0620	77	12528.	*	1	1235	152	0.	*	1	1850	227	0.				
1	0010	3	0.	*	1	0625	78	11404.	*	1	1240	153	0.	*	1	1855	228	0.				
1	0015	4	0.	*	1	0630	79	10294.	*	1	1245	154	0.	*	1	1900	229	0.				
1	0020	5	1.	*	1	0635	80	9215.	*	1	1250	155	0.	*	1	1905	230	0.				
1	0025	6	10.	*	1	0640	81	8186.	*	1	1255	156	0.	*	1	1910	231	0.				
1	0030	7	32.	*	1	0645	82	7223.	*	1	1300	157	0.	*	1	1915	232	0.				
1	0035	8	57.	*	1	0650	83	6338.	*	1	1305	158	0.	*	1	1920	233	0.				
1	0040	9	69.	*	1	0655	84	5538.	*	1	1310	159	0.	*	1	1925	234	0.				
1	0045	10	64.	*	1	0700	85	4821.	*	1	1315	160	0.	*	1	1930	235	0.				
1	0050	11	56.	*	1	0705	86	4187.	*	1	1320	161	0.	*	1	1935	236	0.				
1	0055	12	53.	*	1	0710	87	3627.	*	1	1325	162	0.	*	1	1940	237	0.				
1	0100	13	60.	*	1	0715	88	3134.	*	1	1330	163	0.	*	1	1945	238	0.				
1	0105	14	75.	*	1	0720	89	2701.	*	1	1335	164	0.	*	1	1950	239	0.				
1	0110	15	100.	*	1	0725	90	2320.	*	1	1340	165	0.	*	1	1955	240	0.				
1	0115	16	134.	*	1	0730	91	1984.	*	1	1345	166	0.	*	1	2000	241	0.				
1	0120	17	171.	*	1	0735	92	1690.	*	1	1350	167	0.	*	1	2005	242	0.				
1	0125	18	215.	*	1	0740	93	1432.	*	1	1355	168	0.	*	1	2010	243	0.				
1	0130	19	277.	*	1	0745	94	1208.	*	1	1400	169	0.	*	1	2015	244	0.				
1	0135	20	359.	*	1	0750	95	1013.	*	1	1405	170	0.	*	1	2020	245	0.				
1	0140	21	447.	*	1	0755	96	846.	*	1	1410	171	0.	*	1	2025	246	0.				
1	0145	22	529.	*	1	0800	97	703.	*	1	1415	172	0.	*	1	2030	247	0.				
1	0150	23	603.	*	1	0805	98	582.	*	1	1420	173	0.	*	1	2035	248	0.				
1	0155	24	665.	*	1	0810	99	480.	*	1	1425	174	0.	*	1	2040	249	0.				
1	0200	25	720.	*	1	0815	100	395.	*	1	1430	175	0.	*	1	2045	250	0.				
1	0205	26	781.	*	1	0820	101	324.	*	1	1435	176	0.	*	1	2050	251	0.				
1	0210	27	864.	*	1	0825	102	266.	*	1	1440	177	0.	*	1	2055	252	0.				
1	0215	28	984.	*	1	0830	103	218.	*	1	1445	178	0.	*	1	2100	253	0.				
1	0220	29	1142.	*	1	0835	104	179.	*	1	1450	179	0.	*	1	2105	254	0.				
1	0225	30	1314.	*	1	0840	105	147.	*	1	1455	180	0.	*	1	2110	255	0.				
1	0230	31	1469.	*	1	0845	106	120.	*	1	1500	181	0.	*	1	2115	256	0.				
1	0235	32	1603.	*	1	0850	107	99.	*	1	1505	182	0.	*	1	2120	257	0.				
1	0240	33	1754.	*	1	0855	108	81.	*	1	1510	183	0.	*	1	2125	258	0.				
1	0245	34	1955.	*	1	0900	109	66.	*	1	1515	184	0.	*	1	2130	259	0.				
1	0250	35	2176.	*	1	0905	110	53.	*	1	1520	185	0.	*	1	2135	260	0.				
1	0255	36	2367.	*	1	0910	111	43.	*	1	1525	186	0.	*	1	2140	261	0.				
1	0300	37	2533.	*	1	0915	112	34.	*	1	1530	187	0.	*	1	2145	262	0.				
1	0305	38	2742.	*	1	0920	113	27.	*	1	1535	188	0.	*	1	2150	263	0.				
1	0310	39	3051.	*	1	0925	114	21.	*	1	1540	189	0.	*	1	2155	264	0.				
1	0315	40	3500.	*	1	0930	115	16.	*	1	1545	190	0.	*	1	2200	265	0.				
1	0320	41	4200.	*	1	0935	116	13.	*	1	1550	191	0.	*	1	2205	266	0.				
1	0325	42	5258.	*	1	0940	117	10.	*	1	1555	192	0.	*	1	2210	267	0.				
1	0330	43	6628.	*	1	0945	118	7.	*	1	1600	193	0.	*	1	2215	268	0.				
1	0335	44	8033.	*	1	0950	119	6.	*	1	1605	194	0.	*	1	2220	269	0.				
1	0340	45	9034.	*	1	0955	120	4.	*	1	1610	195	0.	*	1	2225	270	0.				
1	0345	46	9859.	*	1	1000	121	3.	*	1	1615	196	0.	*	1	2230	271	0.				
1	0350	47	10864.	*	1	1005	122	2.	*	1	1620	197	0.	*	1	2235	272	0.				
1	0355	48	12110.	*	1	1010	123	2.	*	1	1625	198	0.	*	1	2240	273	0.				
1	0400	49	13640.	*	1	1015	124	1.	*	1	1630	199	0.	*	1	2245	274	0.				
1	0405	50	15423.	*	1	1020	125	1.	*	1	1635	200	0.	*	1	2250	275	0.				
1	0410	51	17332.	*	1	1025	126	1.	*	1	1640	201	0.	*	1	2255	276	0.				
1	0415	52	19367.	*	1	1030	127	1.	*	1	1645	202	0.	*	1	2300	277	0.				
1	0420	53	21578.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.				
1	0425	54	23962.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.				
1	0430	55	26482.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.				
1	0435	56	29041.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.				
1	0440	57	31404.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.				
1	0445	58	33365.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.				
1	0450	59	34840.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.				
1	0455	60	35749.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.				
1	0500	61	35949.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.				
1	0505	62	35433.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.				

1	0510	63	34304.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.					
1	0515	64	32711.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.					
1	0520	65	30814.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.					
1	0525	66	28763.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.					
1	0530	67	26692.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.					
1	0535	68	24695.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.					
1	0540	69	22839.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.					
1	0545	70	21164.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.					
1	0550	71	19673.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.					
1	0555	72	18329.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.					
1	0600	73	17091.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.					
1	0605	74	15921.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.					
1	0610	75	14784.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.					
				*					*					*									

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 35949.	5.00	12356.	3116.	3002.	3002.
		(INCHES) 2.099	2.118	2.118	2.118
		(AC-FT) 6127.	6181.	6181.	6181.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .92

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	*	1	0615	76	13474.	*	1	1230	151	0.	*	1	1845	226	0.				
1	0005	2	0.	*	1	0620	77	12362.	*	1	1235	152	0.	*	1	1850	227	0.				
1	0010	3	0.	*	1	0625	78	11253.	*	1	1240	153	0.	*	1	1855	228	0.				
1	0015	4	0.	*	1	0630	79	10158.	*	1	1245	154	0.	*	1	1900	229	0.				
1	0020	5	1.	*	1	0635	80	9094.	*	1	1250	155	0.	*	1	1905	230	0.				
1	0025	6	10.	*	1	0640	81	8079.	*	1	1255	156	0.	*	1	1910	231	0.				
1	0030	7	30.	*	1	0645	82	7129.	*	1	1300	157	0.	*	1	1915	232	0.				
1	0035	8	54.	*	1	0650	83	6256.	*	1	1305	158	0.	*	1	1920	233	0.				
1	0040	9	65.	*	1	0655	84	5465.	*	1	1310	159	0.	*	1	1925	234	0.				
1	0045	10	61.	*	1	0700	85	4759.	*	1	1315	160	0.	*	1	1930	235	0.				
1	0050	11	53.	*	1	0705	86	4132.	*	1	1320	161	0.	*	1	1935	236	0.				
1	0055	12	50.	*	1	0710	87	3580.	*	1	1325	162	0.	*	1	1940	237	0.				
1	0100	13	56.	*	1	0715	88	3094.	*	1	1330	163	0.	*	1	1945	238	0.				
1	0105	14	70.	*	1	0720	89	2666.	*	1	1335	164	0.	*	1	1950	239	0.				
1	0110	15	93.	*	1	0725	90	2290.	*	1	1340	165	0.	*	1	1955	240	0.				
1	0115	16	126.	*	1	0730	91	1959.	*	1	1345	166	0.	*	1	2000	241	0.				
1	0120	17	161.	*	1	0735	92	1668.	*	1	1350	167	0.	*	1	2005	242	0.				
1	0125	18	203.	*	1	0740	93	1414.	*	1	1355	168	0.	*	1	2010	243	0.				
1	0130	19	262.	*	1	0745	94	1192.	*	1	1400	169	0.	*	1	2015	244	0.				
1	0135	20	341.	*	1	0750	95	1000.	*	1	1405	170	0.	*	1	2020	245	0.				
1	0140	21	425.	*	1	0755	96	835.	*	1	1410	171	0.	*	1	2025	246	0.				
1	0145	22	504.	*	1	0800	97	694.	*	1	1415	172	0.	*	1	2030	247	0.				
1	0150	23	575.	*	1	0805	98	574.	*	1	1420	173	0.	*	1	2035	248	0.				
1	0155	24	634.	*	1	0810	99	474.	*	1	1425	174	0.	*	1	2040	249	0.				
1	0200	25	687.	*	1	0815	100	390.	*	1	1430	175	0.	*	1	2045	250	0.				
1	0205	26	747.	*	1	0820	101	320.	*	1	1435	176	0.	*	1	2050	251	0.				
1	0210	27	828.	*	1	0825	102	263.	*	1	1440	177	0.	*	1	2055	252	0.				
1	0215	28	945.	*	1	0830	103	216.	*	1	1445	178	0.	*	1	2100	253	0.				
1	0220	29	1101.	*	1	0835	104	177.	*	1	1450	179	0.	*	1	2105	254	0.				
1	0225	30	1269.	*	1	0840	105	145.	*	1	1455	180	0.	*	1	2110	255	0.				
1	0230	31	1420.	*	1	0845	106	119.	*	1	1500	181	0.	*	1	2115	256	0.				
1	0235	32	1552.	*	1	0850	107	97.	*	1	1505	182	0.	*	1	2120	257	0.				
1	0240	33	1700.	*	1	0855	108	80.	*	1	1510	183	0.	*	1	2125	258	0.				
1	0245	34	1897.	*	1	0900	109	65.	*	1	1515	184	0.	*	1	2130	259	0.				
1	0250	35	2113.	*	1	0905	110	53.	*	1	1520	185	0.	*	1	2135	260	0.				
1	0255	36	2300.	*	1	0910	111	42.	*	1	1525	186	0.	*	1	2140	261	0.				
1	0300	37	2464.	*	1	0915	112	34.	*	1	1530	187	0.	*	1	2145	262	0.				
1	0305	38	2668.	*	1	0920	113	27.	*	1	1535	188	0.	*	1	2150	263	0.				
1	0310	39	2972.	*	1	0925	114	21.	*	1	1540	189	0.	*	1	2155	264	0.				
1	0315	40	3413.	*	1	0930	115	16.	*	1	1545	190	0.	*	1	2200	265	0.				
1	0320	41	4104.	*	1	0935	116	13.	*	1	1550	191	0.	*	1	2205	266	0.				
1	0325	42	5143.	*	1	0940	117	10.	*	1	1555	192	0.	*	1	2210	267	0.				
1	0330	43	6486.	*	1	0945	118	7.	*	1	1600	193	0.	*	1	2215	268	0.				
1	0335	44	7881.	*	1	0950	119	6.	*	1	1605	194	0.	*	1	2220	269	0.				
1	0340	45	8862.	*	1	0955	120	4.	*	1	1610	195	0.	*	1	2225	270	0.				
1	0345	46	9667.	*	1	1000	121	3.	*	1	1615	196	0.	*	1	2230	271	0.				
1	0350	47	10663.	*	1	1005	122	2.	*	1	1620	197	0.	*	1	2235	272	0.				
1	0355	48	11892.	*	1	1010	123	2.	*	1	1625	198	0.	*	1	2240	273	0.				
1	0400	49	13398.	*	1	1015	124	1.	*	1	1630	199	0.	*	1	2245	274	0.				
1	0405	50	15155.	*	1	1020	125	1.	*	1	1635	200	0.	*	1	2250	275	0.				
1	0410	51	17042.	*	1	1025	126	1.	*	1	1640	201	0.	*	1	2255	276	0.				
1	0415	52	19042.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.				
1	0420	53	21224.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.				
1	0425	54	23570.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.				
1	0430	55	26059.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.				
1	0435	56	28584.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.				
1	0440	57	30916.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.				

1	0445	58	32851.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.					
1	0450	59	34312.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.					
1	0455	60	35211.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.					
1	0500	61	35415.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.					
1	0505	62	34910.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.					
1	0510	63	33802.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.					
1	0515	64	32236.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.					
1	0520	65	30370.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.					
1	0525	66	28352.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.					
1	0530	67	26315.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.					
1	0535	68	24348.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.					
1	0540	69	22521.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.					
1	0545	70	20871.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.					
1	0550	71	19403.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.					
1	0555	72	18079.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.					
1	0600	73	16859.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.					
1	0605	74	15707.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.					
1	0610	75	14586.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.					

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
	(CFS)				
+ 35415.	5.00	12163.	3067.	2955.	2955.
	(INCHES)	2.066	2.084	2.084	2.084
	(AC-FT)	6031.	6084.	6084.	6084.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .91

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	1	0615	76	13346.	1	1230	151	0.	1	1845	226	0.				
1	0005	2	0.	1	0620	77	12245.	1	1235	152	0.	1	1850	227	0.				
1	0010	3	0.	1	0625	78	11147.	1	1240	153	0.	1	1855	228	0.				
1	0015	4	0.	1	0630	79	10063.	1	1245	154	0.	1	1900	229	0.				
1	0020	5	1.	1	0635	80	9009.	1	1250	155	0.	1	1905	230	0.				
1	0025	6	9.	1	0640	81	8004.	1	1255	156	0.	1	1910	231	0.				
1	0030	7	29.	1	0645	82	7063.	1	1300	157	0.	1	1915	232	0.				
1	0035	8	52.	1	0650	83	6198.	1	1305	158	0.	1	1920	233	0.				
1	0040	9	63.	1	0655	84	5415.	1	1310	159	0.	1	1925	234	0.				
1	0045	10	59.	1	0700	85	4715.	1	1315	160	0.	1	1930	235	0.				
1	0050	11	50.	1	0705	86	4094.	1	1320	161	0.	1	1935	236	0.				
1	0055	12	48.	1	0710	87	3547.	1	1325	162	0.	1	1940	237	0.				
1	0100	13	53.	1	0715	88	3066.	1	1330	163	0.	1	1945	238	0.				
1	0105	14	66.	1	0720	89	2642.	1	1335	164	0.	1	1950	239	0.				
1	0110	15	89.	1	0725	90	2269.	1	1340	165	0.	1	1955	240	0.				
1	0115	16	120.	1	0730	91	1941.	1	1345	166	0.	1	2000	241	0.				
1	0120	17	154.	1	0735	92	1653.	1	1350	167	0.	1	2005	242	0.				
1	0125	18	194.	1	0740	93	1401.	1	1355	168	0.	1	2010	243	0.				
1	0130	19	252.	1	0745	94	1182.	1	1400	169	0.	1	2015	244	0.				
1	0135	20	328.	1	0750	95	991.	1	1405	170	0.	1	2020	245	0.				
1	0140	21	410.	1	0755	96	828.	1	1410	171	0.	1	2025	246	0.				
1	0145	22	487.	1	0800	97	688.	1	1415	172	0.	1	2030	247	0.				
1	0150	23	556.	1	0805	98	569.	1	1420	173	0.	1	2035	248	0.				
1	0155	24	613.	1	0810	99	470.	1	1425	174	0.	1	2040	249	0.				
1	0200	25	665.	1	0815	100	386.	1	1430	175	0.	1	2045	250	0.				
1	0205	26	723.	1	0820	101	317.	1	1435	176	0.	1	2050	251	0.				
1	0210	27	803.	1	0825	102	260.	1	1440	177	0.	1	2055	252	0.				
1	0215	28	918.	1	0830	103	214.	1	1445	178	0.	1	2100	253	0.				
1	0220	29	1071.	1	0835	104	175.	1	1450	179	0.	1	2105	254	0.				
1	0225	30	1237.	1	0840	105	144.	1	1455	180	0.	1	2110	255	0.				
1	0230	31	1387.	1	0845	106	118.	1	1500	181	0.	1	2115	256	0.				
1	0235	32	1516.	1	0850	107	96.	1	1505	182	0.	1	2120	257	0.				
1	0240	33	1662.	1	0855	108	79.	1	1510	183	0.	1	2125	258	0.				
1	0245	34	1856.	1	0900	109	64.	1	1515	184	0.	1	2130	259	0.				
1	0250	35	2070.	1	0905	110	52.	1	1520	185	0.	1	2135	260	0.				
1	0255	36	2255.	1	0910	111	42.	1	1525	186	0.	1	2140	261	0.				
1	0300	37	2416.	1	0915	112	34.	1	1530	187	0.	1	2145	262	0.				
1	0305	38	2617.	1	0920	113	26.	1	1535	188	0.	1	2150	263	0.				
1	0310	39	2919.	1	0925	114	21.	1	1540	189	0.	1	2155	264	0.				
1	0315	40	3354.	1	0930	115	16.	1	1545	190	0.	1	2200	265	0.				
1	0320	41	4033.	1	0935	116	12.	1	1550	191	0.	1	2205	266	0.				
1	0325	42	5061.	1	0940	117	9.	1	1555	192	0.	1	2210	267	0.				
1	0330	43	6391.	1	0945	118	7.	1	1600	193	0.	1	2215	268	0.				
1	0335	44	7765.	1	0950	119	6.	1	1605	194	0.	1	2220	269	0.				
1	0340	45	8744.	1	0955	120	4.	1	1610	195	0.	1	2225	270	0.				
1	0345	46	9545.	1	1000	121	3.	1	1615	196	0.	1	2230	271	0.				
1	0350	47	10525.	1	1005	122	2.	1	1620	197	0.	1	2235	272	0.				
1	0355	48	11740.	1	1010	123	2.	1	1625	198	0.	1	2240	273	0.				
1	0400	49	13233.	1	1015	124	1.	1	1630	199	0.	1	2245	274	0.				
1	0405	50	14970.	1	1020	125	1.	1	1635	200	0.	1	2250	275	0.				
1	0410	51	16833.	1	1025	126	1.	1	1640	201	0.	1	2255	276	0.				
1	0415	52	18817.	1	1030	127	0.	1	1645	202	0.	1	2300	277	0.				

1	0420	53	20974.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.					
1	0425	54	23303.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.					
1	0430	55	25764.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.					
1	0435	56	28264.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.					
1	0440	57	30575.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.					
1	0445	58	32495.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.					
1	0450	59	33941.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.					
1	0455	60	34836.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.					
1	0500	61	35039.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.					
1	0505	62	34543.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.					
1	0510	63	33451.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.					
1	0515	64	31904.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.					
1	0520	65	30059.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.					
1	0525	66	28065.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.					
1	0530	67	26049.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.					
1	0535	68	24105.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.					
1	0540	69	22297.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.					
1	0545	70	20665.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.					
1	0550	71	19213.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.					
1	0555	72	17904.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.					
1	0600	73	16697.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.					
1	0605	74	15557.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.					
1	0610	75	14447.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.					

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
	(CFS)				
+ 35039.	5.00	12029.	3033.	2922.	2922.
	(INCHES)	2.043	2.061	2.061	2.061
	(AC-FT)	5965.	6016.	6016.	6016.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .90

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	1	0615	76	13255.	1	1230	151	0.	1	1845	226	0.				
1	0005	2	0.	1	0620	77	12162.	1	1235	152	0.	1	1850	227	0.				
1	0010	3	0.	1	0625	78	11071.	1	1240	153	0.	1	1855	228	0.				
1	0015	4	0.	1	0630	79	9995.	1	1245	154	0.	1	1900	229	0.				
1	0020	5	1.	1	0635	80	8949.	1	1250	155	0.	1	1905	230	0.				
1	0025	6	9.	1	0640	81	7950.	1	1255	156	0.	1	1910	231	0.				
1	0030	7	28.	1	0645	82	7016.	1	1300	157	0.	1	1915	232	0.				
1	0035	8	51.	1	0650	83	6156.	1	1305	158	0.	1	1920	233	0.				
1	0040	9	62.	1	0655	84	5379.	1	1310	159	0.	1	1925	234	0.				
1	0045	10	57.	1	0700	85	4683.	1	1315	160	0.	1	1930	235	0.				
1	0050	11	49.	1	0705	86	4067.	1	1320	161	0.	1	1935	236	0.				
1	0055	12	46.	1	0710	87	3524.	1	1325	162	0.	1	1940	237	0.				
1	0100	13	51.	1	0715	88	3045.	1	1330	163	0.	1	1945	238	0.				
1	0105	14	64.	1	0720	89	2624.	1	1335	164	0.	1	1950	239	0.				
1	0110	15	86.	1	0725	90	2254.	1	1340	165	0.	1	1955	240	0.				
1	0115	16	116.	1	0730	91	1928.	1	1345	166	0.	1	2000	241	0.				
1	0120	17	150.	1	0735	92	1642.	1	1350	167	0.	1	2005	242	0.				
1	0125	18	189.	1	0740	93	1392.	1	1355	168	0.	1	2010	243	0.				
1	0130	19	244.	1	0745	94	1174.	1	1400	169	0.	1	2015	244	0.				
1	0135	20	319.	1	0750	95	985.	1	1405	170	0.	1	2020	245	0.				
1	0140	21	399.	1	0755	96	822.	1	1410	171	0.	1	2025	246	0.				
1	0145	22	474.	1	0800	97	683.	1	1415	172	0.	1	2030	247	0.				
1	0150	23	542.	1	0805	98	566.	1	1420	173	0.	1	2035	248	0.				
1	0155	24	599.	1	0810	99	467.	1	1425	174	0.	1	2040	249	0.				
1	0200	25	649.	1	0815	100	384.	1	1430	175	0.	1	2045	250	0.				
1	0205	26	707.	1	0820	101	315.	1	1435	176	0.	1	2050	251	0.				
1	0210	27	785.	1	0825	102	259.	1	1440	177	0.	1	2055	252	0.				
1	0215	28	900.	1	0830	103	212.	1	1445	178	0.	1	2100	253	0.				
1	0220	29	1051.	1	0835	104	174.	1	1450	179	0.	1	2105	254	0.				
1	0225	30	1215.	1	0840	105	143.	1	1455	180	0.	1	2110	255	0.				
1	0230	31	1363.	1	0845	106	117.	1	1500	181	0.	1	2115	256	0.				
1	0235	32	1491.	1	0850	107	96.	1	1505	182	0.	1	2120	257	0.				
1	0240	33	1636.	1	0855	108	78.	1	1510	183	0.	1	2125	258	0.				
1	0245	34	1827.	1	0900	109	64.	1	1515	184	0.	1	2130	259	0.				
1	0250	35	2039.	1	0905	110	52.	1	1520	185	0.	1	2135	260	0.				
1	0255	36	2222.	1	0910	111	42.	1	1525	186	0.	1	2140	261	0.				
1	0300	37	2383.	1	0915	112	33.	1	1530	187	0.	1	2145	262	0.				
1	0305	38	2582.	1	0920	113	26.	1	1535	188	0.	1	2150	263	0.				
1	0310	39	2879.	1	0925	114	21.	1	1540	189	0.	1	2155	264	0.				
1	0315	40	3312.	1	0930	115	16.	1	1545	190	0.	1	2200	265	0.				
1	0320	41	3983.	1	0935	116	12.	1	1550	191	0.	1	2205	266	0.				
1	0325	42	5000.	1	0940	117	9.	1	1555	192	0.	1	2210	267	0.				
1	0330	43	6328.	1	0945	118	7.	1	1600	193	0.	1	2215	268	0.				
1	0335	44	7690.	1	0950	119	5.	1	1605	194	0.	1	2220	269	0.				
1	0340	45	8655.	1	0955	120	4.	1	1610	195	0.	1	2225	270	0.				
1	0345	46	9459.	1	1000	121	3.	1	1615	196	0.	1	2230	271	0.				
1	0350	47	10430.	1	1005	122	2.	1	1620	197	0.	1	2235	272	0.				

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0355	48	11632.	1		1010	123	2.	1		1625	198	0.	1		2240	273	0.
1		0400	49	13112.	1		1015	124	1.	1		1630	199	0.	1		2245	274	0.
1		0405	50	14838.	1		1020	125	1.	1		1635	200	0.	1		2250	275	0.
1		0410	51	16688.	1		1025	126	1.	1		1640	201	0.	1		2255	276	0.
1		0415	52	18655.	1		1030	127	0.	1		1645	202	0.	1		2300	277	0.
1		0420	53	20799.	1		1035	128	0.	1		1650	203	0.	1		2305	278	0.
1		0425	54	23107.	1		1040	129	0.	1		1655	204	0.	1		2310	279	0.
1		0430	55	25554.	1		1045	130	0.	1		1700	205	0.	1		2315	280	0.
1		0435	56	28035.	1		1050	131	0.	1		1705	206	0.	1		2320	281	0.
1		0440	57	30330.	1		1055	132	0.	1		1710	207	0.	1		2325	282	0.
1		0445	58	32238.	1		1100	133	0.	1		1715	208	0.	1		2330	283	0.
1		0450	59	33676.	1		1105	134	0.	1		1720	209	0.	1		2335	284	0.
1		0455	60	34566.	1		1110	135	0.	1		1725	210	0.	1		2340	285	0.
1		0500	61	34773.	1		1115	136	0.	1		1730	211	0.	1		2345	286	0.
1		0505	62	34283.	1		1120	137	0.	1		1735	212	0.	1		2350	287	0.
1		0510	63	33200.	1		1125	138	0.	1		1740	213	0.	1		2355	288	0.
1		0515	64	31667.	1		1130	139	0.	1		1745	214	0.	2		0000	289	0.
1		0520	65	29838.	1		1135	140	0.	1		1750	215	0.	2		0005	290	0.
1		0525	66	27859.	1		1140	141	0.	1		1755	216	0.	2		0010	291	0.
1		0530	67	25861.	1		1145	142	0.	1		1800	217	0.	2		0015	292	0.
1		0535	68	23932.	1		1150	143	0.	1		1805	218	0.	2		0020	293	0.
1		0540	69	22138.	1		1155	144	0.	1		1810	219	0.	2		0025	294	0.
1		0545	70	20519.	1		1200	145	0.	1		1815	220	0.	2		0030	295	0.
1		0550	71	19078.	1		1205	146	0.	1		1820	221	0.	2		0035	296	0.
1		0555	72	17778.	1		1210	147	0.	1		1825	222	0.	2		0040	297	0.
1		0600	73	16581.	1		1215	148	0.	1		1830	223	0.	2		0045	298	0.
1		0605	74	15449.	1		1220	149	0.	1		1835	224	0.	2		0050	299	0.
1		0610	75	14348.	1		1225	150	0.	1		1840	225	0.	2		0055	300	0.

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW				
		6-HR	24-HR	72-HR	24.92-HR	
+ (CFS)	(HR)					
		(CFS)				
+ 34773.	5.00	11933.	3009.	2898.	2898.	
		(INCHES)	2.027	2.044	2.044	2.044
		(AC-FT)	5917.	5968.	5968.	5968.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .89

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	13109.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	12029.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	10951.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	9886.	1		1245	154	0.	1		1900	229	0.
1		0020	5	1.	1		0635	80	8852.	1		1250	155	0.	1		1905	230	0.
1		0025	6	8.	1		0640	81	7864.	1		1255	156	0.	1		1910	231	0.
1		0030	7	27.	1		0645	82	6940.	1		1300	157	0.	1		1915	232	0.
1		0035	8	49.	1		0650	83	6090.	1		1305	158	0.	1		1920	233	0.
1		0040	9	60.	1		0655	84	5321.	1		1310	159	0.	1		1925	234	0.
1		0045	10	55.	1		0700	85	4633.	1		1315	160	0.	1		1930	235	0.
1		0050	11	47.	1		0705	86	4024.	1		1320	161	0.	1		1935	236	0.
1		0055	12	44.	1		0710	87	3486.	1		1325	162	0.	1		1940	237	0.
1		0100	13	48.	1		0715	88	3013.	1		1330	163	0.	1		1945	238	0.
1		0105	14	60.	1		0720	89	2596.	1		1335	164	0.	1		1950	239	0.
1		0110	15	81.	1		0725	90	2230.	1		1340	165	0.	1		1955	240	0.
1		0115	16	110.	1		0730	91	1908.	1		1345	166	0.	1		2000	241	0.
1		0120	17	142.	1		0735	92	1625.	1		1350	167	0.	1		2005	242	0.
1		0125	18	179.	1		0740	93	1377.	1		1355	168	0.	1		2010	243	0.
1		0130	19	233.	1		0745	94	1161.	1		1400	169	0.	1		2015	244	0.
1		0135	20	305.	1		0750	95	974.	1		1405	170	0.	1		2020	245	0.
1		0140	21	382.	1		0755	96	813.	1		1410	171	0.	1		2025	246	0.
1		0145	22	455.	1		0800	97	676.	1		1415	172	0.	1		2030	247	0.
1		0150	23	520.	1		0805	98	560.	1		1420	173	0.	1		2035	248	0.
1		0155	24	575.	1		0810	99	462.	1		1425	174	0.	1		2040	249	0.
1		0200	25	625.	1		0815	100	380.	1		1430	175	0.	1		2045	250	0.
1		0205	26	681.	1		0820	101	312.	1		1435	176	0.	1		2050	251	0.
1		0210	27	757.	1		0825	102	256.	1		1440	177	0.	1		2055	252	0.
1		0215	28	870.	1		0830	103	210.	1		1445	178	0.	1		2100	253	0.
1		0220	29	1018.	1		0835	104	172.	1		1450	179	0.	1		2105	254	0.
1		0225	30	1179.	1		0840	105	141.	1		1455	180	0.	1		2110	255	0.
1		0230	31	1325.	1		0845	106	116.	1		1500	181	0.	1		2115	256	0.
1		0235	32	1452.	1		0850	107	95.	1		1505	182	0.	1		2120	257	0.
1		0240	33	1593.	1		0855	108	78.	1		1510	183	0.	1		2125	258	0.
1		0245	34	1781.	1		0900	109	63.	1		1515	184	0.	1		2130	259	0.
1		0250	35	1990.	1		0905	110	51.	1		1520	185	0.	1		2135	260	0.
1		0255	36	2170.	1		0910	111	41.	1		1525	186	0.	1		2140	261	0.
1		0300	37	2328.	1		0915	112	33.	1		1530	187	0.	1		2145	262	0.
1		0305	38	2525.	1		0920	113	26.	1		1535	188	0.	1		2150	263	0.
1		0310	39	2816.	1		0925	114	20.	1		1540	189	0.	1		2155	264	0.
1		0315	40	3242.	1		0930	115	16.	1		1545	190	0.	1		2200	265	0.
1		0320	41	3906.	1		0935	116	12.	1		1550	191	0.	1		2205	266	0.
1		0325	42	4913.	1		0940	117	9.	1		1555	192	0.	1		2210	267	0.

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0330	43	6216.	1		0945	118	7.	1		1600	193	0.	1		2215	268	0.
1		0335	44	7573.	1		0950	119	5.	1		1605	194	0.	1		2220	269	0.
1		0340	45	8527.	1		0955	120	4.	1		1610	195	0.	1		2225	270	0.
1		0345	46	9304.	1		1000	121	3.	1		1615	196	0.	1		2230	271	0.
1		0350	47	10268.	1		1005	122	2.	1		1620	197	0.	1		2235	272	0.
1		0355	48	11458.	1		1010	123	2.	1		1625	198	0.	1		2240	273	0.
1		0400	49	12918.	1		1015	124	1.	1		1630	199	0.	1		2245	274	0.
1		0405	50	14622.	1		1020	125	1.	1		1635	200	0.	1		2250	275	0.
1		0410	51	16452.	1		1025	126	1.	1		1640	201	0.	1		2255	276	0.
1		0415	52	18398.	1		1030	127	0.	1		1645	202	0.	1		2300	277	0.
1		0420	53	20516.	1		1035	128	0.	1		1650	203	0.	1		2305	278	0.
1		0425	54	22799.	1		1040	129	0.	1		1655	204	0.	1		2310	279	0.
1		0430	55	25215.	1		1045	130	0.	1		1700	205	0.	1		2315	280	0.
1		0435	56	27672.	1		1050	131	0.	1		1705	206	0.	1		2320	281	0.
1		0440	57	29942.	1		1055	132	0.	1		1710	207	0.	1		2325	282	0.
1		0445	58	31829.	1		1100	133	0.	1		1715	208	0.	1		2330	283	0.
1		0450	59	33254.	1		1105	134	0.	1		1720	209	0.	1		2335	284	0.
1		0455	60	34138.	1		1110	135	0.	1		1725	210	0.	1		2340	285	0.
1		0500	61	34344.	1		1115	136	0.	1		1730	211	0.	1		2345	286	0.
1		0505	62	33865.	1		1120	137	0.	1		1735	212	0.	1		2350	287	0.
1		0510	63	32799.	1		1125	138	0.	1		1740	213	0.	1		2355	288	0.
1		0515	64	31288.	1		1130	139	0.	1		1745	214	0.	2		0000	289	0.
1		0520	65	29483.	1		1135	140	0.	1		1750	215	0.	2		0005	290	0.
1		0525	66	27532.	1		1140	141	0.	1		1755	216	0.	2		0010	291	0.
1		0530	67	25558.	1		1145	142	0.	1		1800	217	0.	2		0015	292	0.
1		0535	68	23654.	1		1150	143	0.	1		1805	218	0.	2		0020	293	0.
1		0540	69	21883.	1		1155	144	0.	1		1810	219	0.	2		0025	294	0.
1		0545	70	20284.	1		1200	145	0.	1		1815	220	0.	2		0030	295	0.
1		0550	71	18862.	1		1205	146	0.	1		1820	221	0.	2		0035	296	0.
1		0555	72	17578.	1		1210	147	0.	1		1825	222	0.	2		0040	297	0.
1		0600	73	16395.	1		1215	148	0.	1		1830	223	0.	2		0045	298	0.
1		0605	74	15277.	1		1220	149	0.	1		1835	224	0.	2		0050	299	0.
1		0610	75	14189.	1		1225	150	0.	1		1840	225	0.	2		0055	300	0.

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW				
		6-HR	24-HR	72-HR	24.92-HR	
+ (CFS)	(HR)					
		(CFS)				
+ 34344.	5.00	11780.	2970.	2860.	2860.	
		(INCHES)	2.001	2.018	2.018	2.018
		(AC-FT)	5841.	5890.	5890.	5890.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .88

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	12927.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	11862.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	10800.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	9751.	1		1245	154	0.	1		1900	229	0.
1		0020	5	1.	1		0635	80	8731.	1		1250	155	0.	1		1905	230	0.
1		0025	6	7.	1		0640	81	7757.	1		1255	156	0.	1		1910	231	0.
1		0030	7	25.	1		0645	82	6845.	1		1300	157	0.	1		1915	232	0.
1		0035	8	47.	1		0650	83	6007.	1		1305	158	0.	1		1920	233	0.
1		0040	9	57.	1		0655	84	5249.	1		1310	159	0.	1		1925	234	0.
1		0045	10	52.	1		0700	85	4571.	1		1315	160	0.	1		1930	235	0.
1		0050	11	44.	1		0705	86	3969.	1		1320	161	0.	1		1935	236	0.
1		0055	12	41.	1		0710	87	3439.	1		1325	162	0.	1		1940	237	0.
1		0100	13	45.	1		0715	88	2972.	1		1330	163	0.	1		1945	238	0.
1		0105	14	56.	1		0720	89	2561.	1		1335	164	0.	1		1950	239	0.
1		0110	15	76.	1		0725	90	2200.	1		1340	165	0.	1		1955	240	0.
1		0115	16	103.	1		0730	91	1882.	1		1345	166	0.	1		2000	241	0.
1		0120	17	133.	1		0735	92	1603.	1		1350	167	0.	1		2005	242	0.
1		0125	18	168.	1		0740	93	1359.	1		1355	168	0.	1		2010	243	0.
1		0130	19	220.	1		0745	94	1146.	1		1400	169	0.	1		2015	244	0.
1		0135	20	288.	1		0750	95	961.	1		1405	170	0.	1		2020	245	0.
1		0140	21	362.	1		0755	96	803.	1		1410	171	0.	1		2025	246	0.
1		0145	22	432.	1		0800	97	667.	1		1415	172	0.	1		2030	247	0.
1		0150	23	494.	1		0805	98	552.	1		1420	173	0.	1		2035	248	0.
1		0155	24	547.	1		0810	99	455.	1		1425	174	0.	1		2040	249	0.
1		0200	25	594.	1		0815	100	375.	1		1430	175	0.	1		2045	250	0.
1		0205	26	649.	1		0820	101	308.	1		1435	176	0.	1		2050	251	0.
1		0210	27	723.	1		0825	102	253.	1		1440	177	0.	1		2055	252	0.
1		0215	28	833.	1		0830	103	207.	1		1445	178	0.	1		2100	253	0.
1		0220	29	978.	1		0835	104	170.	1		1450	179	0.	1		2105	254	0.
1		0225	30	1135.	1		0840	105	139.	1		1455	180	0.	1		2110	255	0.
1		0230	31	1278.	1		0845	106	114.	1		1500	181	0.	1		2115	256	0.
1		0235	32	1401.	1		0850	107	94.	1		1505	182	0.	1		2120	257	0.
1		0240	33	1541.	1		0855	108	76.	1		1510	183	0.	1		2125	258	0.
1		0245	34	1725.	1		0900	109	62.	1		1515	184	0.	1		2130	259	0.
1		0250	35	1928.	1		0905	110	51.	1		1520	185	0.	1		2135	260	0.
1		0255	36	2105.	1		0910	111	41.	1		1525	186	0.	1		2140	261	0.
1		0300	37	2260.	1		0915	112	33.	1		1530	187	0.	1		2145	262	0.

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1	0740	93	2185.	2032.5	3212.9	*	1	1600	193	179.	1903.2	3210.9	*	2	0020	293	175.	1781.4	3208.9
1	0745	94	1864.	2028.4	3212.8	*	1	1605	194	179.	1902.0	3210.9	*	2	0025	294	175.	1780.2	3208.9
1	0750	95	1583.	2024.9	3212.7	*	1	1610	195	179.	1900.7	3210.8	*	2	0030	295	175.	1779.0	3208.9
1	0755	96	1338.	2021.7	3212.7	*	1	1615	196	179.	1899.5	3210.8	*	2	0035	296	175.	1777.8	3208.9
1	0800	97	1126.	2019.0	3212.7	*	1	1620	197	179.	1898.3	3210.8	*	2	0040	297	175.	1776.6	3208.9
1	0805	98	943.	2016.7	3212.6	*	1	1625	198	179.	1897.1	3210.8	*	2	0045	298	175.	1775.4	3208.8
1	0810	99	786.	2014.7	3212.6	*	1	1630	199	179.	1895.8	3210.8	*	2	0050	299	175.	1774.2	3208.8
1	0815	100	653.	2013.0	3212.6	*	1	1635	200	178.	1894.6	3210.7	*	2	0055	300	175.	1773.0	3208.8
						*							*						

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PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
	(CFS)				
+ 39118.	5.08	9704.	2543.	2449.	2449.
	(INCHES)	1.648	1.728	1.728	1.728
	(AC-FT)	4812.	5044.	5044.	5044.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
2358.	5.08	2101.	1701.	1638.	1638.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3217.38	5.08	3213.80	3205.69	3204.05	3204.05

CUMULATIVE AREA = 54.73 SQ MI

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HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .98

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DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE		DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE		DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000		1	0.	.0	3161.0	*	1	0820		101	532.	2011.5	3212.6	*	1	1640		201	178.	1893.3	3210.7
1	0005		2	0.	.0	3161.0	*	1	0825		102	439.	2010.3	3212.5	*	1	1645		202	178.	1892.0	3210.7
1	0010		3	0.	.0	3161.0	*	1	0830		103	362.	2009.3	3212.5	*	1	1650		203	178.	1890.8	3210.7
1	0015		4	0.	.0	3161.0	*	1	0835		104	298.	2008.5	3212.5	*	1	1655		204	178.	1889.6	3210.7
1	0020		5	0.	.0	3161.0	*	1	0840		105	245.	2007.8	3212.5	*	1	1700		205	178.	1888.4	3210.6
1	0025		6	0.	.1	3161.0	*	1	0845		106	201.	2007.2	3212.5	*	1	1705		206	178.	1887.1	3210.6
1	0030		7	0.	.3	3161.0	*	1	0850		107	182.	2006.7	3212.5	*	1	1710		207	178.	1885.9	3210.6
1	0035		8	1.	.6	3161.1	*	1	0855		108	182.	2006.1	3212.5	*	1	1715		208	178.	1884.7	3210.6
1	0040		9	1.	1.2	3161.1	*	1	0900		109	182.	2005.4	3212.5	*	1	1720		209	178.	1883.4	3210.6
1	0045		10	2.	1.7	3161.2	*	1	0905		110	182.	2004.6	3212.5	*	1	1725		210	178.	1882.2	3210.5
1	0050		11	3.	2.3	3161.3	*	1	0910		111	182.	2003.7	3212.4	*	1	1730		211	178.	1881.0	3210.5
1	0055		12	3.	2.7	3161.3	*	1	0915		112	182.	2002.7	3212.4	*	1	1735		212	178.	1879.8	3210.5
1	0100		13	4.	3.2	3161.4	*	1	0920		113	182.	2001.7	3212.4	*	1	1740		213	178.	1878.5	3210.5
1	0105		14	4.	3.8	3161.4	*	1	0925		114	182.	2000.6	3212.4	*	1	1745		214	178.	1877.3	3210.5
1	0110		15	5.	4.6	3161.5	*	1	0930		115	182.	1999.5	3212.4	*	1	1750		215	178.	1876.1	3210.4
1	0115		16	6.	5.7	3161.6	*	1	0935		116	182.	1998.4	3212.4	*	1	1755		216	178.	1874.9	3210.4
1	0120		17	8.	7.0	3161.8	*	1	0940		117	182.	1997.2	3212.4	*	1	1800		217	178.	1873.6	3210.4
1	0125		18	10.	8.7	3162.0	*	1	0945		118	182.	1996.0	3212.3	*	1	1805		218	178.	1872.4	3210.4
1	0130		19	11.	10.8	3162.1	*	1	0950		119	182.	1994.8	3212.3	*	1	1810		219	178.	1871.2	3210.4
1	0135		20	12.	13.6	3162.2	*	1	0955		120	182.	1993.6	3212.3	*	1	1815		220	178.	1870.0	3210.3
1	0140		21	14.	17.0	3162.4	*	1	1000		121	182.	1992.4	3212.3	*	1	1820		221	178.	1868.7	3210.3
1	0145		22	16.	21.2	3162.6	*	1	1005		122	182.	1991.1	3212.3	*	1	1825		222	178.	1867.5	3210.3
1	0150		23	18.	25.9	3162.9	*	1	1010		123	181.	1989.9	3212.2	*	1	1830		223	178.	1866.3	3210.3
1	0155		24	21.	31.2	3163.1	*	1	1015		124	181.	1988.7	3212.2	*	1	1835		224	178.	1865.1	3210.3
1	0200		25	23.	37.0	3163.4	*	1	1020		125	181.	1987.4	3212.2	*	1	1840		225	178.	1863.8	3210.3
1	0205		26	26.	43.2	3163.7	*	1	1025		126	181.	1986.2	3212.2	*	1	1845		226	177.	1862.6	3210.2
1	0210		27	30.	50.0	3164.1	*	1	1030		127	181.	1984.9	3212.2	*	1	1850		227	177.	1861.4	3210.2
1	0215		28	33.	57.5	3164.5	*	1	1035		128	181.	1983.7	3212.1	*	1	1855		228	177.	1860.2	3210.2
1	0220		29	37.	66.0	3164.9	*	1	1040		129	181.	1982.4	3212.1	*	1	1900		229	177.	1859.0	3210.2
1	0225		30	42.	75.8	3165.4	*	1	1045		130	181.	1981.2	3212.1	*	1	1905		230	177.	1857.7	3210.2
1	0230		31	47.	86.7	3166.0	*	1	1050		131	181.	1979.9	3212.1	*	1	1910		231	177.	1856.5	3210.1
1	0235		32	53.	98.7	3166.6	*	1	1055		132	181.	1978.7	3212.1	*	1	1915		232	177.	1855.3	3210.1
1	0240		33	58.	111.8	3167.2	*	1	1100		133	181.	1977.5	3212.1	*	1	1920		233	177.	1854.1	3210.1
1	0245		34	61.	126.1	3167.8	*	1	1105		134	181.	1976.2	3212.0	*	1	1925		234	177.	1852.9	3210.1
1	0250		35	64.	142.1	3168.4	*	1	1110		135	181.	1975.0	3212.0	*	1	1930		235	177.	1851.6	3210.1
1	0255		36	67.	159.5	3169.1	*	1	1115		136	181.	1973.7	3212.0	*	1	1935		236	177.	1850.4	3210.0
1	0300		37	70.	178.3	3169.9	*	1	1120		137	181.	1972.5	3212.0	*	1	1940		237	177.	1849.2	3210.0
1	0305		38	74.	198.5	3170.7	*	1	1125		138	181.	1971.2	3212.0	*	1	1945		238	177.	1848.0	3210.0
1	0310		39	78.	220.6	3171.6	*	1	1130		139	181.	1970.0	3211.9	*	1	1950		239	177.	1846.8	3210.0
1	0315		40	82.	245.5	3172.5	*	1	1135		140	181.	1968.7	3211.9	*	1	1955		240	177.	1845.5	3210.0
1	0320		41	86.	274.7	3173.5	*	1	1140		141	181.	1967.5	3211.9	*	1	2000		241	177.	1844.3	3209.9
1	0325		42	91.	310.4	3174.8	*	1	1145		142	181.	1966.2	3211.9	*	1	2005		242	177.	1843.1	3209.9
1	0330		43	97.	355.1	3176.4	*	1	1150		143	181.	1965.0	3211.9	*	1	2010		243	177.	1841.9	3209.9
1	0335		44	103.	410.0	3178.2	*	1	1155		144	181.	1963.7	3211.8	*	1	2015		244	177.	1840.7	3209.9
1	0340		45	109.	473.7	3180.2	*	1	1200		145	181.	1962.5	3211.8	*	1	2020		245	177.	1839.5	3209.9
1	0345		46	115.	544.1	3182.4	*	1	1205		146	181.	1961.3	3211.8	*	1	2025		246	177.	1838.2	3209.8
1	0350		47	121.	621.3	3184.6	*	1	1210		147	181.	1960.0	3211.8	*	1	2030		247	177.	1837.0	3209.8
1	0355		48	128.	706.7	3187.0	*	1	1215		148	181.	1958.8	3211.8	*	1	2035		248	177.	1835.8	3209.8
1	0400		49	134.	802.5	3189.5	*	1	1220		149	180.	1957.5	3211.7	*	1	2040		249	177.	1834.6	3209.8
1	0405		50	140.	910.4	3192.2	*	1	1225		150	180.	1956.3	3211.7	*	1	2045		250	177.	1833.4	3209.8
1	0410		51	146.	1031.9	3194.9	*	1	1230		151	180.	1955.0	3211.7	*	1	2050		251	176.	1832.2	3209.7
1	0415		52	153.	1167.9	3197.9	*	1	1235		152	180.	1953.8	3211.7	*	1	2055		252	176.	1830.9	3209.7
1	0420		53	160.	1319.6	3200.9	*	1	1240		153	180.	1952.6	3211.7	*	1	2100		253	176.	1829.7	3209.7
1	0425		54	166.	1488.1	3204.0	*	1	1245		154	180.	1951.3	3211.6	*	1	2105		254	176.	1828.5	3209.7
1	0430		55	171.	1674.7	3207.2	*	1	1250		155	180.	1950.1	3211.6	*	1	2110		255	176.	1827.3	3209.7
1	0435		56	178.	1879.9	3210.5	*	1	1255		156	180.	1948.8	3211.6	*	1	2115		256	176.	1826.1	3209.7
1	0440		57	6117.	2082.7	3213.6	*	1	1300		157	180.	1947.6	3211.6	*	1	2120		257	176.	1824.9	3209.6
1	0445		58	21512.	2227.8	3215.6	*	1	1305		158	180.	1946.4	3211.6	*	1	2125		258	176.	1823.7	3209.6
1	0450		59	30081.	2303.0	3216.6	*	1	1310		159	180.	1945.1	3211.5	*	1	2130		259	176.	1822.4	3209.6
1	0455		60	35175.	2339.8	3217.1	*	1	1315		160	180.	1943.9	3211.5	*	1	2135		260	176.	1821.2	3209.6
1	0500		61	38047.	2353.1	3217.3	*	1	1320		161	180.	1942.6	3211.5	*	1	2140		261	176.	1820.0	3209.6
1	0505		62	38299.	2354.3	3217.3	*	1	1325		162	180.	1941.4	3211.5	*	1	2145		262	176.	1818.8	3209.5
1	0510		63	37561.	2350.8	3217.3	*	1	1330		163	180.	1940.2	3211.5	*	1	2150		263	176.	1817.6	3209.5
1	0515		64	36187.	2344.5	3217.2	*	1	1335		164	180.	1938.9	3211.4	*	1	2155		264	176.	1816.4	3209.5
1	0520		65	34372.	2336.1	3217.1	*	1	1340		165	180.	1937.7	3211.4	*	1	2200		265	176.	1815.2	3209.5
1	0525		66	32619.	2325.3	3216.9	*	1	1345		166	180.	1936.4	3211.4	*	1	2205		266	176.	1813.9	3209.5
1	0530		67	30975.	2310.9	3216.7	*	1	1350		167	180.	1935.2	3211.4	*	1	2210		267	176.	1812.7	3209.4
1	0535		68	29021.	2293.7	3216.5	*	1	1355		168	180.	1934.0	3211.4	*	1	2215		268	176.	1811.5	3209.4
1	0540		69	26999.	2276.0	3216.2	*	1	1400		169	180.	1932.7	3211.3	*	1	2220		269	176.	1810.3	3209.4
1	0545		70	25044.	2258.8	3216.0	*	1	1405		170	180.	1931.5	3211.3	*	1	2225		270	176.	1809.1	3209.4
1	0550		71	23231.	2242.9	3215.8	*	1	1410		171	180.	1930.3	3211.3	*	1	2230		271	176.	1807.9	3209.4
1	0555		72	21581.	2228.4	3215.6	*	1	1415		172	180.	1929.0	3211.3	*	1	2235		272	176.	1806.7	3209.3
1	0600		73	20079.	2215.2	3215.4	*	1	1420		173	180.	1927.8	3211.3	*	1	2240		273	176.	1805.5	3209.3
1	0605		74	18694.	2203.1	3215.2	*	1	1425		174	179.	1926.5	3211.2	*	1	2245		274	176.	1804.3	3209.3
1	0610		75	17393.	2191.7	3215.1	*	1	1430		175	179.	1925.3	3211.2	*	1	2250		275	176.	1803.1	3209.3
1	0615		76	16140.	2180.7	3214.9	*	1	1435		176	179.	1924.1	3211.2	*	1	2255		276	176.	1801.8	3209.3
1	0620		77	14913.	2169.9	3214.8	*	1	1440		177	179.	1922.8	3211.2	*	1	2300		277	175.	1800.6	3209.2
1	0625		78	13699.	2159.3	3214.6	*	1	1445		178	179.	1921.6	3211.2	*	1	2305		278	175.	1799.4	3209.2
1	0630		79	12496.	2148.7	3214.5	*	1	1450		179	179.	1920.4	3211.1	*	1	2310		279	175.	1798.2	3209.2
1	0635		80	11313.	2138.3	3214.3	*	1	1455		180	179.	1919.1	3211.1	*	1	2315		280	175.	1797.0	3209.2
1	0640		81	10162.	2128.2	3214.2	*	1	1500		181	179.	1917.9	3211.1	*	1	2320		281	175.	1795.8	3209.2
1	0645		82	9061.	2118.6	3214.0	*	1	1505		182	179.	1916.7	3211.1	*	1	2325		282	175.	1794.6	3209.2
1	0650		83	8180.	2109.0	3213.9	*	1	1510		183	179.	1915.4	3211.1	*	1	2330		283	175.	1793.4	3209.1
1	0655		84	7391.	2098.9	3213.8	*	1	1515		184	179.	1914.2	3211.1	*	1	2335		284	175.	1792.2	3209.1
1	0700		85	6594.	2088.7	3213.6	*	1	1520		185	179.	1913.0	3211.0	*	1	2340		285	175.	1791.0	3209.1
1	0705		86	5829.	2079.0	3213.5	*	1	1525		186	179.	1911.7	3211.0	*	1	2345		286	175.	1789.8	3209.1
1	0710		87	5119.	2069.9	3213.4	*	1	1530		187	179.	1910.5	3211.0	*	1	2350		287	175.	1788.6	3209.1
1	0715		88	4473.	2061.7	3213.3	*	1	1535		188	179.	1909.3	3211.0	*	1	2355		288	175.	1787.4	3209.0
1	0720		89	3892.	2054.3	3213.2	*	1	1540		189	179.	1908.0	3211.0	*	2	0000		289	175.	1786.2	3209.0
1	0725		90	3373.	2047.7	3213.1	*	1	1545		190	179.	1906.8	3210.9	*	2	0005		290	175.	1784.9	3209.0
1	0730		91	2913.	2041.8	3213.0	*	1	1550		191	179.	1905.6	3210.9	*	2	0010		291	175.	1783.7	3209.0
1	0735		92	2506.	2036.6	3212.9	*	1	1555		192	179.	1904.3	3210.9	*	2	0015		292	175.	1782.5	3209.0
1	0740		93	2147.	2032.0	3212.8	*	1	1600		193	179.	1903.1	3210.9	*	2	0020		293	175.	1781.3	3208.9
1	0745		94	1831.	2028.0	3212.8	*	1	1605		194	179.	1901.9	3210.9	*	2	0025		294	175.	1780.1	3208.9
1	0750		95	1555.	2024.5	3212.7	*	1	1610		195	179.	1900.6	3210.8	*	2	0030		295	175.	1778.9	3208.9
1	0755		96	1314.	2021.4	3212.7	*	1	1615		196	179.	1899.4	3210.8	*	2	0035		296	175.	1777.7	3208.9
1	0800		97	1106.	2018.8	3212.7	*	1	1620		197	179.	1898.2	3210.8	*	2	0040		297	175.	1776.5	3208.9
1	0805		98	926.	2016.5	3212.6	*	1	1625		198	179.	1897.0	3210.8	*	2	0045		298	175.	1775.3	3208.8
1	0810		99	773.	2014.5	3212.6	*	1	1630		199	179.	1895.7	3210.8	*	2	0050		299	175.	1774.1	3208.8
1	0815		100	642.	2012.9	3212.6	*	1	1635		200	178.	1894.5	3210.7	*	2	0055		300	175.	1772.9	3208.8
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PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
	(CFS)				
+ 38299.	5.08	9408.	2469.	2378.	2378.
	(INCHES)	1.598	1.677	1.678	1.678
	(AC-FT)	4665.	4897.	4897.	4897.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
2354.	5.08	2098.	1698.	1636.	1636.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3217.32	5.08	3213.76	3205.63	3203.99	3203.99

CUMULATIVE AREA = 54.73 SQ MI

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HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .95

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DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE		DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE		DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000		1	0.	.0	3161.0	*	1	0820		101	516.	2011.3	3212.6	*	1	1640		201	178.	1893.1	3210.7
1	0005		2	0.	.0	3161.0	*	1	0825		102	426.	2010.1	3212.5	*	1	1645		202	178.	1891.9	3210.7
1	0010		3	0.	.0	3161.0	*	1	0830		103	351.	2009.2	3212.5	*	1	1650		203	178.	1890.6	3210.7
1	0015		4	0.	.0	3161.0	*	1	0835		104	289.	2008.4	3212.5	*	1	1655		204	178.	1889.4	3210.7
1	0020		5	0.	.0	3161.0	*	1	0840		105	238.	2007.7	3212.5	*	1	1700		205	178.	1888.2	3210.6
1	0025		6	0.	.1	3161.0	*	1	0845		106	195.	2007.2	3212.5	*	1	1705		206	178.	1886.9	3210.6
1	0030		7	0.	.2	3161.0	*	1	0850		107	182.	2006.6	3212.5	*	1	1710		207	178.	1885.7	3210.6
1	0035		8	1.	.6	3161.1	*	1	0855		108	182.	2006.0	3212.5	*	1	1715		208	178.	1884.5	3210.6
1	0040		9	1.	1.0	3161.1	*	1	0900		109	182.	2005.3	3212.5	*	1	1720		209	178.	1883.3	3210.6
1	0045		10	2.	1.5	3161.2	*	1	0905		110	182.	2004.5	3212.5	*	1	1725		210	178.	1882.0	3210.5
1	0050		11	2.	2.0	3161.2	*	1	0910		111	182.	2003.6	3212.4	*	1	1730		211	178.	1880.8	3210.5
1	0055		12	3.	2.4	3161.3	*	1	0915		112	182.	2002.6	3212.4	*	1	1735		212	178.	1879.6	3210.5
1	0100		13	3.	2.9	3161.3	*	1	0920		113	182.	2001.5	3212.4	*	1	1740		213	178.	1878.4	3210.5
1	0105		14	4.	3.4	3161.4	*	1	0925		114	182.	2000.5	3212.4	*	1	1745		214	178.	1877.1	3210.5

1	0110	15	5.	4.1	3161.5	*	1	0930	115	182.	1999.3	3212.4	*	1	1750	215	178.	1875.9	3210.4
1	0115	16	6.	5.0	3161.6	*	1	0935	116	182.	1998.2	3212.4	*	1	1755	216	178.	1874.7	3210.4
1	0120	17	7.	6.1	3161.7	*	1	0940	117	182.	1997.0	3212.3	*	1	1800	217	178.	1873.5	3210.4
1	0125	18	8.	7.6	3161.8	*	1	0945	118	182.	1995.8	3212.3	*	1	1805	218	178.	1872.2	3210.4
1	0130	19	10.	9.5	3162.0	*	1	0950	119	182.	1994.6	3212.3	*	1	1810	219	178.	1871.0	3210.4
1	0135	20	11.	11.9	3162.1	*	1	0955	120	182.	1993.4	3212.3	*	1	1815	220	178.	1869.8	3210.3
1	0140	21	13.	15.0	3162.3	*	1	1000	121	182.	1992.2	3212.3	*	1	1820	221	178.	1868.6	3210.3
1	0145	22	15.	18.7	3162.5	*	1	1005	122	182.	1991.0	3212.3	*	1	1825	222	178.	1867.3	3210.3
1	0150	23	17.	22.9	3162.7	*	1	1010	123	181.	1989.7	3212.2	*	1	1830	223	178.	1866.1	3210.3
1	0155	24	19.	27.7	3163.0	*	1	1015	124	181.	1988.5	3212.2	*	1	1835	224	178.	1864.9	3210.3
1	0200	25	21.	32.9	3163.2	*	1	1020	125	181.	1987.2	3212.2	*	1	1840	225	177.	1863.7	3210.2
1	0205	26	24.	38.5	3163.5	*	1	1025	126	181.	1986.0	3212.2	*	1	1845	226	177.	1862.5	3210.2
1	0210	27	27.	44.6	3163.8	*	1	1030	127	181.	1984.8	3212.2	*	1	1850	227	177.	1861.2	3210.2
1	0215	28	30.	51.4	3164.2	*	1	1035	128	181.	1983.5	3212.1	*	1	1855	228	177.	1860.0	3210.2
1	0220	29	34.	59.2	3164.6	*	1	1040	129	181.	1982.3	3212.1	*	1	1900	229	177.	1858.8	3210.2
1	0225	30	38.	68.2	3165.0	*	1	1045	130	181.	1981.0	3212.1	*	1	1905	230	177.	1857.6	3210.2
1	0230	31	43.	78.4	3165.5	*	1	1050	131	181.	1979.8	3212.1	*	1	1910	231	177.	1856.3	3210.1
1	0235	32	49.	89.5	3166.1	*	1	1055	132	181.	1978.5	3212.1	*	1	1915	232	177.	1855.1	3210.1
1	0240	33	54.	101.6	3166.7	*	1	1100	133	181.	1977.3	3212.0	*	1	1920	233	177.	1853.9	3210.1
1	0245	34	58.	115.0	3167.3	*	1	1105	134	181.	1976.0	3212.0	*	1	1925	234	177.	1852.7	3210.1
1	0250	35	61.	129.9	3167.9	*	1	1110	135	181.	1974.8	3212.0	*	1	1930	235	177.	1851.5	3210.1
1	0255	36	64.	146.2	3168.6	*	1	1115	136	181.	1973.5	3212.0	*	1	1935	236	177.	1850.2	3210.0
1	0300	37	68.	163.8	3169.3	*	1	1120	137	181.	1972.3	3212.0	*	1	1940	237	177.	1849.0	3210.0
1	0305	38	71.	182.7	3170.1	*	1	1125	138	181.	1971.0	3212.0	*	1	1945	238	177.	1847.8	3210.0
1	0310	39	75.	203.5	3170.9	*	1	1130	139	181.	1969.8	3211.9	*	1	1950	239	177.	1846.6	3210.0
1	0315	40	79.	226.9	3171.8	*	1	1135	140	181.	1968.6	3211.9	*	1	1955	240	177.	1845.4	3210.0
1	0320	41	83.	254.5	3172.8	*	1	1140	141	181.	1967.3	3211.9	*	1	2000	241	177.	1844.1	3209.9
1	0325	42	88.	288.4	3174.0	*	1	1145	142	181.	1966.1	3211.9	*	1	2005	242	177.	1842.9	3209.9
1	0330	43	93.	330.9	3175.5	*	1	1150	143	181.	1964.8	3211.9	*	1	2010	243	177.	1841.7	3209.9
1	0335	44	100.	383.2	3177.4	*	1	1155	144	181.	1963.6	3211.8	*	1	2015	244	177.	1840.5	3209.9
1	0340	45	106.	444.1	3179.3	*	1	1200	145	181.	1962.3	3211.8	*	1	2020	245	177.	1839.3	3209.9
1	0345	46	112.	511.5	3181.4	*	1	1205	146	181.	1961.1	3211.8	*	1	2025	246	177.	1838.1	3209.8
1	0350	47	118.	585.3	3183.6	*	1	1210	147	181.	1959.8	3211.8	*	1	2030	247	177.	1836.8	3209.8
1	0355	48	125.	667.2	3185.9	*	1	1215	148	181.	1958.6	3211.8	*	1	2035	248	177.	1835.6	3209.8
1	0400	49	131.	759.0	3188.4	*	1	1220	149	180.	1957.4	3211.7	*	1	2040	249	177.	1834.4	3209.8
1	0405	50	138.	862.5	3191.0	*	1	1225	150	180.	1956.1	3211.7	*	1	2045	250	177.	1833.2	3209.8
1	0410	51	144.	979.2	3193.7	*	1	1230	151	180.	1954.9	3211.7	*	1	2050	251	176.	1832.0	3209.7
1	0415	52	150.	1109.9	3196.7	*	1	1235	152	180.	1953.6	3211.7	*	1	2055	252	176.	1830.8	3209.7
1	0420	53	157.	1255.6	3199.6	*	1	1240	153	180.	1952.4	3211.7	*	1	2100	253	176.	1829.6	3209.7
1	0425	54	163.	1417.8	3202.7	*	1	1245	154	180.	1951.1	3211.6	*	1	2105	254	176.	1828.3	3209.7
1	0430	55	169.	1597.3	3205.9	*	1	1250	155	180.	1949.9	3211.6	*	1	2110	255	176.	1827.1	3209.7
1	0435	56	175.	1794.9	3209.2	*	1	1255	156	180.	1948.7	3211.6	*	1	2115	256	176.	1825.9	3209.6
1	0440	57	367.	2009.4	3212.5	*	1	1300	157	180.	1947.4	3211.6	*	1	2120	257	176.	1824.7	3209.6
1	0445	58	16426.	2183.2	3214.9	*	1	1305	158	180.	1946.2	3211.6	*	1	2125	258	176.	1823.5	3209.6
1	0450	59	27125.	2277.1	3216.3	*	1	1310	159	180.	1944.9	3211.5	*	1	2130	259	176.	1822.3	3209.6
1	0455	60	32483.	2324.1	3216.9	*	1	1315	160	180.	1943.7	3211.5	*	1	2135	260	176.	1821.1	3209.6
1	0500	61	36099.	2344.1	3217.2	*	1	1320	161	180.	1942.5	3211.5	*	1	2140	261	176.	1819.8	3209.6
1	0505	62	36881.	2347.7	3217.2	*	1	1325	162	180.	1941.2	3211.5	*	1	2145	262	176.	1818.6	3209.5
1	0510	63	36257.	2344.8	3217.2	*	1	1330	163	180.	1940.0	3211.5	*	1	2150	263	176.	1817.4	3209.5
1	0515	64	34953.	2338.8	3217.1	*	1	1335	164	180.	1938.7	3211.4	*	1	2155	264	176.	1816.2	3209.5
1	0520	65	33230.	2330.6	3217.0	*	1	1340	165	180.	1937.5	3211.4	*	1	2200	265	176.	1815.0	3209.5
1	0525	66	31892.	2318.9	3216.8	*	1	1345	166	180.	1936.3	3211.4	*	1	2205	266	176.	1813.8	3209.5
1	0530	67	30101.	2303.2	3216.6	*	1	1350	167	180.	1935.0	3211.4	*	1	2210	267	176.	1812.6	3209.4
1	0535	68	28128.	2285.9	3216.4	*	1	1355	168	180.	1933.8	3211.4	*	1	2215	268	176.	1811.4	3209.4
1	0540	69	26140.	2268.4	3216.1	*	1	1400	169	180.	1932.6	3211.3	*	1	2220	269	176.	1810.1	3209.4
1	0545	70	24238.	2251.7	3215.9	*	1	1405	170	180.	1931.3	3211.3	*	1	2225	270	176.	1808.9	3209.4
1	0550	71	22482.	2236.3	3215.7	*	1	1410	171	180.	1930.1	3211.3	*	1	2230	271	176.	1807.7	3209.4
1	0555	72	20887.	2222.3	3215.5	*	1	1415	172	180.	1928.8	3211.3	*	1	2235	272	176.	1806.5	3209.3
1	0600	73	19436.	2209.6	3215.3	*	1	1420	173	180.	1927.6	3211.3	*	1	2240	273	176.	1805.3	3209.3
1	0605	74	18099.	2197.9	3215.2	*	1	1425	174	179.	1926.4	3211.2	*	1	2245	274	176.	1804.1	3209.3
1	0610	75	16842.	2186.8	3215.0	*	1	1430	175	179.	1925.1	3211.2	*	1	2250	275	176.	1802.9	3209.3
1	0615	76	15632.	2176.2	3214.9	*	1	1435	176	179.	1923.9	3211.2	*	1	2255	276	176.	1801.7	3209.3
1	0620	77	14446.	2165.8	3214.7	*	1	1440	177	179.	1922.7	3211.2	*	1	2300	277	175.	1800.5	3209.2
1	0625	78	13272.	2155.5	3214.6	*	1	1445	178	179.	1921.4	3211.2	*	1	2305	278	175.	1799.3	3209.2
1	0630	79	12108.	2145.3	3214.4	*	1	1450	179	179.	1920.2	3211.1	*	1	2310	279	175.	1798.1	3209.2
1	0635	80	10962.	2135.3	3214.3	*	1	1455	180	179.	1919.0	3211.1	*	1	2315	280	175.	1796.8	3209.2
1	0640	81	9849.	2125.5	3214.1	*	1	1500	181	179.	1917.7	3211.1	*	1	2320	281	175.	1795.6	3209.2
1	0645	82	8782.	2116.1	3214.0	*	1	1505	182	179.	1916.5	3211.1	*	1	2325	282	175.	1794.4	3209.1
1	0650	83	7994.	2106.6	3213.9	*	1	1510	183	179.	1915.3	3211.1	*	1	2330	283	175.	1793.2	3209.1
1	0655	84	7202.	2096.5	3213.7	*	1	1515	184	179.	1914.0	3211.0	*	1	2335	284	175.	1792.0	3209.1
1	0700	85	6413.	2086.4	3213.6	*	1	1520	185	179.	1912.8	3211.0	*	1	2340	285	175.	1790.8	3209.1
1	0705	86	5663.	2076.9	3213.5	*	1	1525	186	179.	1911.6	3211.0	*	1	2345	286	175.	1789.6	3209.1
1	0710	87	4970.	2068.0	3213.3	*	1	1530	187	179.	1910.3	3211.0	*	1	2350	287	175.	1788.4	3209.1
1	0715	88	4341.	2060.0	3213.2	*	1	1535	188	179.	1909.1	3211.0	*	1	2355	288	175.	1787.2	3209.0
1	0720	89	3776.	2052.8	3213.1	*	1	1540	189	179.	1907.9	3211.0	*	2	0000	289	175.	1786.0	3209.0
1	0725	90	3272.	2046.4	3213.0	*	1	1545	190	179.	1906.6	3210.9	*	2	0005	290	175.	1784.8	3209.0
1	0730	91	2825.	2040.7	3213.0	*	1	1550	191	179.	1905.4	3210.9	*	2	0010	291	175.	1783.6	3209.0
1	0735	92	2430.	2035.7	3212.9	*	1	1555	192	179.	1904.2	3210.9	*	2	0015	292	175.	1782.4	3209.0
1	0740	93	2082.	2031.2	3212.8	*	1	1600	193	179.	1902.9	3210.9	*	2	0020	293	175.	1781.2	3208.9
1	0745	94	1776.	2027.3	3212.8	*	1	1605	194	179.	1901.7	3210.9	*	2	0025	294	175.	1780.0	3208.9
1	0750	95	1508.	2023.9	3212.7	*	1	1610	195	179.	1900.5	3210.8	*	2	0030	295	175.	1778.8	3208.9
1	0755	96	1275.	2020.9	3212.7	*	1	1615	196	179.	1899.2	3210.8	*	2	0035	296	175.	1777.6	3208.9
1	0800	97	1073.	2018.4	3212.7	*	1	1620	197	179.	1898.0	3210.8	*	2	0040	297	175.	1776.3	3208.9
1	0805	98	898.	2016.1	3212.6	*	1	1625	198	179.	1896.8	3210.8	*	2	0045	298	175.	1775.1	3208.8
1	0810	99	749.	2014.2	3212.6	*	1	1630	199	179.	1895.5	3210.8	*	2	0050	299	175.	1773.9	3208.8
1	0815	100	623.	2012.6	3212.6	*	1	1635	200	178.	1894.3	3210.7	*	2	0055	300	175.	1772.7	3208.8

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 36881.	5.08	8917.	2345.	2259.	2259.

	(INCHES)	1.515	1.594	1.594	1.594
	(AC-FT)	4421.	4652.	4652.	4652.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
2348.	5.08	2094.	1694.	1632.	1632.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3217.23	5.08	3213.71	3205.53	3203.89	3203.89

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .93

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000	1	0.	.0	3161.0	*	1	0820	101	500.	2011.1	3212.6	*	1	1640	201	178.	1892.9	3210.7	
1	0005	2	0.	.0	3161.0	*	1	0825	102	413.	2009.9	3212.5	*	1	1645	202	178.	1891.7	3210.7	
1	0010	3	0.	.0	3161.0	*	1	0830	103	340.	2009.0	3212.5	*	1	1650	203	178.	1890.5	3210.7	
1	0015	4	0.	.0	3161.0	*	1	0835	104	280.	2008.3	3212.5	*	1	1655	204	178.	1889.2	3210.7	
1	0020	5	0.	.0	3161.0	*	1	0840	105	230.	2007.6	3212.5	*	1	1700	205	178.	1888.0	3210.6	
1	0025	6	0.	.0	3161.0	*	1	0845	106	189.	2007.1	3212.5	*	1	1705	206	178.	1886.8	3210.6	
1	0030	7	0.	.2	3161.0	*	1	0850	107	182.	2006.6	3212.5	*	1	1710	207	178.	1885.5	3210.6	
1	0035	8	1.	.5	3161.1	*	1	0855	108	182.	2005.9	3212.5	*	1	1715	208	178.	1884.3	3210.6	
1	0040	9	1.	.9	3161.1	*	1	0900	109	182.	2005.2	3212.5	*	1	1720	209	178.	1883.1	3210.6	
1	0045	10	2.	1.4	3161.2	*	1	0905	110	182.	2004.3	3212.5	*	1	1725	210	178.	1881.9	3210.5	
1	0050	11	2.	1.8	3161.2	*	1	0910	111	182.	2003.4	3212.4	*	1	1730	211	178.	1880.6	3210.5	
1	0055	12	2.	2.1	3161.2	*	1	0915	112	182.	2002.4	3212.4	*	1	1735	212	178.	1879.4	3210.5	
1	0100	13	3.	2.5	3161.3	*	1	0920	113	182.	2001.4	3212.4	*	1	1740	213	178.	1878.2	3210.5	
1	0105	14	3.	2.9	3161.3	*	1	0925	114	182.	2000.3	3212.4	*	1	1745	214	178.	1877.0	3210.5	
1	0110	15	4.	3.5	3161.4	*	1	0930	115	182.	1999.2	3212.4	*	1	1750	215	178.	1875.7	3210.4	
1	0115	16	5.	4.3	3161.5	*	1	0935	116	182.	1998.0	3212.4	*	1	1755	216	178.	1874.5	3210.4	
1	0120	17	6.	5.3	3161.6	*	1	0940	117	182.	1996.9	3212.3	*	1	1800	217	178.	1873.3	3210.4	
1	0125	18	7.	6.6	3161.7	*	1	0945	118	182.	1995.7	3212.3	*	1	1805	218	178.	1872.1	3210.4	
1	0130	19	9.	8.2	3161.9	*	1	0950	119	182.	1994.5	3212.3	*	1	1810	219	178.	1870.8	3210.4	
1	0135	20	11.	10.4	3162.1	*	1	0955	120	182.	1993.2	3212.3	*	1	1815	220	178.	1869.6	3210.3	
1	0140	21	12.	13.1	3162.2	*	1	1000	121	182.	1992.0	3212.3	*	1	1820	221	178.	1868.4	3210.3	
1	0145	22	14.	16.3	3162.4	*	1	1005	122	182.	1990.8	3212.3	*	1	1825	222	178.	1867.2	3210.3	
1	0150	23	15.	20.1	3162.6	*	1	1010	123	181.	1989.5	3212.2	*	1	1830	223	178.	1865.9	3210.3	
1	0155	24	17.	24.4	3162.8	*	1	1015	124	181.	1988.3	3212.2	*	1	1835	224	178.	1864.7	3210.3	
1	0200	25	20.	29.0	3163.0	*	1	1020	125	181.	1987.1	3212.2	*	1	1840	225	177.	1863.5	3210.2	
1	0205	26	22.	34.0	3163.3	*	1	1025	126	181.	1985.8	3212.2	*	1	1845	226	177.	1862.3	3210.2	
1	0210	27	25.	39.5	3163.6	*	1	1030	127	181.	1984.6	3212.2	*	1	1850	227	177.	1861.1	3210.2	
1	0215	28	28.	45.7	3163.9	*	1	1035	128	181.	1983.3	3212.1	*	1	1855	228	177.	1859.8	3210.2	
1	0220	29	31.	52.8	3164.2	*	1	1040	129	181.	1982.1	3212.1	*	1	1900	229	177.	1858.6	3210.2	
1	0225	30	35.	61.1	3164.7	*	1	1045	130	181.	1980.8	3212.1	*	1	1905	230	177.	1857.4	3210.1	
1	0230	31	39.	70.4	3165.1	*	1	1050	131	181.	1979.6	3212.1	*	1	1910	231	177.	1856.2	3210.1	
1	0235	32	44.	80.7	3165.7	*	1	1055	132	181.	1978.3	3212.1	*	1	1915	232	177.	1855.0	3210.1	
1	0240	33	50.	91.9	3166.2	*	1	1100	133	181.	1977.1	3212.0	*	1	1920	233	177.	1853.7	3210.1	
1	0245	34	56.	104.3	3166.9	*	1	1105	134	181.	1975.9	3212.0	*	1	1925	234	177.	1852.5	3210.1	
1	0250	35	59.	118.2	3167.5	*	1	1110	135	181.	1974.6	3212.0	*	1	1930	235	177.	1851.3	3210.1	
1	0255	36	62.	133.4	3168.1	*	1	1115	136	181.	1973.4	3212.0	*	1	1935	236	177.	1850.1	3210.0	
1	0300	37	65.	149.8	3168.7	*	1	1120	137	181.	1972.1	3212.0	*	1	1940	237	177.	1848.9	3210.0	
1	0305	38	68.	167.5	3169.4	*	1	1125	138	181.	1970.9	3212.0	*	1	1945	238	177.	1847.6	3210.0	
1	0310	39	72.	187.0	3170.2	*	1	1130	139	181.	1969.6	3211.9	*	1	1950	239	177.	1846.4	3210.0	
1	0315	40	76.	209.0	3171.1	*	1	1135	140	181.	1968.4	3211.9	*	1	1955	240	177.	1845.2	3210.0	
1	0320	41	81.	235.0	3172.1	*	1	1140	141	181.	1967.1	3211.9	*	1	2000	241	177.	1844.0	3209.9	
1	0325	42	85.	267.0	3173.3	*	1	1145	142	181.	1965.9	3211.9	*	1	2005	242	177.	1842.8	3209.9	
1	0330	43	90.	307.3	3174.7	*	1	1150	143	181.	1964.6	3211.9	*	1	2010	243	177.	1841.5	3209.9	
1	0335	44	97.	357.2	3176.5	*	1	1155	144	181.	1963.4	3211.8	*	1	2015	244	177.	1840.3	3209.9	
1	0340	45	103.	415.3	3178.4	*	1	1200	145	181.	1962.2	3211.8	*	1	2020	245	177.	1839.1	3209.9	
1	0345	46	109.	479.6	3180.4	*	1	1205	146	181.	1960.9	3211.8	*	1	2025	246	177.	1837.9	3209.8	
1	0350	47	116.	550.2	3182.6	*	1	1210	147	181.	1959.7	3211.8	*	1	2030	247	177.	1836.7	3209.8	
1	0355	48	122.	628.5	3184.8	*	1	1215	148	181.	1958.4	3211.8	*	1	2035	248	177.	1835.5	3209.8	
1	0400	49	129.	716.3	3187.3	*	1	1220	149	180.	1957.2	3211.7	*	1	2040	249	177.	1834.2	3209.8	
1	0405	50	135.	815.5	3189.8	*	1	1225	150	180.	1955.9	3211.7	*	1	2045	250	177.	1833.0	3209.8	
1	0410	51	141.	927.3	3192.5	*	1	1230	151	180.	1954.7	3211.7	*	1	2050	251	176.	1831.8	3209.7	
1	0415	52	147.	1052.7	3195.4	*	1	1235	152	180.	1953.5	3211.7	*	1	2055	252	176.	1830.6	3209.7	
1	0420	53	154.	1192.6	3198.3	*	1	1240	153	180.	1952.2	3211.7	*	1	2100	253	176.	1829.4	3209.7	
1	0425	54	161.	1348.4	3201.4	*	1	1245	154	180.	1951.0	3211.6	*	1	2105	254	176.	1828.2	3209.7	
1	0430	55	167.	1520.9	3204.6	*	1	1250	155	180.	1949.7	3211.6	*	1	2110	255	176.	1827.0	3209.7	
1	0435	56	173.	1711.0	3207.8	*	1	1255	156	180.	1948.5	3211.6	*	1	2115	256	176.	1825.7	3209.6	
1	0440	57	179.	1917.9	3211.1	*	1	1300	157	180.	1947.2	3211.6	*	1	2120	257	176.	1824.5	3209.6	
1	0445	58	8377.	2111.5	3214.0	*	1	1305	158	180.	1946.0	3211.6	*	1	2125	258	176.	1823.3	3209.6	
1	0450	59	22787.	2239.0	3215.7	*	1	1310	159	180.	1944.8	3211.5	*	1	2130	259	176.	1822.1	3209.6	
1	0455	60	29837.	2300.9	3216.6	*	1	1315	160	180.	1943.5	3211.5	*	1	2135	260	176.	1820.9	3209.6	
1	0500	61	33226.	2330.6	3217.0	*	1	1320	161	180.	1942.3	3211.5	*	1	2140	261	176.	1819.7	3209.6	
1	0505	62	35308.	2340.4	3217.1	*	1	1325	162	180.	1941.0	3211.5	*	1	2145	262	176.	1818.5	3209.5	
1	0510	63	34933.	2338.7	3217.1	*	1	1330	163	180.	1939.8	3211.5	*	1	2150	263	176.	1817.2	3209.5	
1	0515	64	33716.	2333.1	3217.0	*	1	1335	164	180.	1938.6	3211.4	*	1	2155	264	176.	1816.0	3209.5	
1	0520	65	32463.	2323.9	3216.9	*	1	1340	165	180.	1937.3	3211.4	*	1	2200	265	176.	1814.8	3209.5	
1	0525	66	30956.	2310.7	3216.7	*	1	1345	166	180.	1936.1	3211.4	*	1	2205	266	176.	1813.6	3209.5	
1	0530	67	29136.	2294.7	3216.5	*	1	1350	167	180.	1934.9	3211.4	*	1	2210	267	176.	1812.4	3209.4	
1	0535	68	27196.	2277.7	3216.3	*	1	1355	168	180.	1933.6	3211

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0545	70	23425.	2244.6	3215.8	1		1405	170	180.	1931.1	3211.3	1		2225	270	176.	1808.8	3209.4
1		0550	71	21730.	2229.7	3215.6	1		1410	171	180.	1929.9	3211.3	1		2230	271	176.	1807.6	3209.4
1		0555	72	20192.	2216.2	3215.4	1		1415	172	180.	1928.7	3211.3	1		2235	272	176.	1806.3	3209.3
1		0600	73	18793.	2204.0	3215.2	1		1420	173	180.	1927.4	3211.3	1		2240	273	176.	1805.1	3209.3
1		0605	74	17504.	2192.7	3215.1	1		1425	174	179.	1926.2	3211.2	1		2245	274	176.	1803.9	3209.3
1		0610	75	16291.	2182.0	3214.9	1		1430	175	179.	1925.0	3211.2	1		2250	275	176.	1802.7	3209.3
1		0615	76	15124.	2171.8	3214.8	1		1435	176	179.	1923.7	3211.2	1		2255	276	176.	1801.5	3209.3
1		0620	77	13979.	2161.7	3214.6	1		1440	177	179.	1922.5	3211.2	1		2300	277	175.	1800.3	3209.2
1		0625	78	12844.	2151.8	3214.5	1		1445	178	179.	1921.3	3211.2	1		2305	278	175.	1799.1	3209.2
1		0630	79	11719.	2141.9	3214.4	1		1450	179	179.	1920.0	3211.1	1		2310	279	175.	1797.9	3209.2
1		0635	80	10612.	2132.2	3214.2	1		1455	180	179.	1918.8	3211.1	1		2315	280	175.	1796.7	3209.2
1		0640	81	9535.	2122.7	3214.1	1		1500	181	179.	1917.5	3211.1	1		2320	281	175.	1795.5	3209.2
1		0645	82	8540.	2113.5	3214.0	1		1505	182	179.	1916.3	3211.1	1		2325	282	175.	1794.3	3209.1
1		0650	83	7792.	2104.0	3213.8	1		1510	183	179.	1915.1	3211.1	1		2330	283	175.	1793.1	3209.1
1		0655	84	7003.	2094.0	3213.7	1		1515	184	179.	1913.8	3211.0	1		2335	284	175.	1791.8	3209.1
1		0700	85	6228.	2084.1	3213.6	1		1520	185	179.	1912.6	3211.0	1		2340	285	175.	1790.6	3209.1
1		0705	86	5494.	2074.7	3213.4	1		1525	186	179.	1911.4	3211.0	1		2345	286	175.	1789.4	3209.1
1		0710	87	4819.	2066.1	3213.3	1		1530	187	179.	1910.1	3211.0	1		2350	287	175.	1788.2	3209.1
1		0715	88	4207.	2058.3	3213.2	1		1535	188	179.	1908.9	3211.0	1		2355	288	175.	1787.0	3209.0
1		0720	89	3659.	2051.3	3213.1	1		1540	189	179.	1907.7	3210.9	2		0000	289	175.	1785.8	3209.0
1		0725	90	3170.	2045.1	3213.0	1		1545	190	179.	1906.5	3210.9	2		0005	290	175.	1784.6	3209.0
1		0730	91	2737.	2039.6	3213.0	1		1550	191	179.	1905.2	3210.9	2		0010	291	175.	1783.4	3209.0
1		0735	92	2354.	2034.7	3212.9	1		1555	192	179.	1904.0	3210.9	2		0015	292	175.	1782.2	3209.0
1		0740	93	2017.	2030.4	3212.8	1		1600	193	179.	1902.8	3210.9	2		0020	293	175.	1781.0	3208.9
1		0745	94	1721.	2026.6	3212.8	1		1605	194	179.	1901.5	3210.8	2		0025	294	175.	1779.8	3208.9
1		0750	95	1461.	2023.3	3212.7	1		1610	195	179.	1900.3	3210.8	2		0030	295	175.	1778.6	3208.9
1		0755	96	1235.	2020.4	3212.7	1		1615	196	179.	1899.1	3210.8	2		0035	296	175.	1777.4	3208.9
1		0800	97	1039.	2017.9	3212.7	1		1620	197	179.	1897.8	3210.8	2		0040	297	175.	1776.2	3208.9
1		0805	98	870.	2015.8	3212.6	1		1625	198	179.	1896.6	3210.8	2		0045	298	175.	1775.0	3208.8
1		0810	99	726.	2013.9	3212.6	1		1630	199	179.	1895.4	3210.8	2		0050	299	175.	1773.8	3208.8
1		0815	100	603.	2012.4	3212.6	1		1635	200	178.	1894.1	3210.7	2		0055	300	175.	1772.6	3208.8

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 35308.	5.08		8427.	2223.	2141.	2141.
		(INCHES)	1.432	1.510	1.510	1.510
		(AC-FT)	4179.	4409.	4409.	4409.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
2340.	5.08	2090.	1689.	1627.	1627.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3217.13	5.08	3213.64	3205.42	3203.79	3203.79

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .92

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	3161.0	1		0820	101	493.	2011.0	3212.6	1		1640	201	178.	1892.8	3210.7
1		0005	2	0.	.0	3161.0	1		0825	102	408.	2009.9	3212.5	1		1645	202	178.	1891.6	3210.7
1		0010	3	0.	.0	3161.0	1		0830	103	336.	2009.0	3212.5	1		1650	203	178.	1890.4	3210.7
1		0015	4	0.	.0	3161.0	1		0835	104	277.	2008.2	3212.5	1		1655	204	178.	1889.2	3210.7
1		0020	5	0.	.0	3161.0	1		0840	105	227.	2007.6	3212.5	1		1700	205	178.	1887.9	3210.6
1		0025	6	0.	.0	3161.0	1		0845	106	187.	2007.1	3212.5	1		1705	206	178.	1886.7	3210.6
1		0030	7	0.	.2	3161.0	1		0850	107	182.	2006.5	3212.5	1		1710	207	178.	1885.5	3210.6
1		0035	8	1.	.5	3161.1	1		0855	108	182.	2005.9	3212.5	1		1715	208	178.	1884.3	3210.6
1		0040	9	1.	.9	3161.1	1		0900	109	182.	2005.1	3212.5	1		1720	209	178.	1883.0	3210.6
1		0045	10	1.	1.3	3161.1	1		0905	110	182.	2004.3	3212.5	1		1725	210	178.	1881.8	3210.5
1		0050	11	2.	1.7	3161.2	1		0910	111	182.	2003.4	3212.4	1		1730	211	178.	1880.6	3210.5
1		0055	12	2.	2.0	3161.2	1		0915	112	182.	2002.4	3212.4	1		1735	212	178.	1879.3	3210.5
1		0100	13	3.	2.4	3161.3	1		0920	113	182.	2001.3	3212.4	1		1740	213	178.	1878.1	3210.5
1		0105	14	3.	2.8	3161.3	1		0925	114	182.	2000.2	3212.4	1		1745	214	178.	1876.9	3210.5
1		0110	15	4.	3.3	3161.4	1		0930	115	182.	1999.1	3212.4	1		1750	215	178.	1875.7	3210.4
1		0115	16	4.	4.0	3161.4	1		0935	116	182.	1998.0	3212.4	1		1755	216	178.	1874.4	3210.4
1		0120	17	6.	5.0	3161.6	1		0940	117	182.	1996.8	3212.3	1		1800	217	178.	1873.2	3210.4
1		0125	18	7.	6.2	3161.7	1		0945	118	182.	1995.6	3212.3	1		1805	218	178.	1872.0	3210.4
1		0130	19	9.	7.8	3161.9	1		0950	119	182.	1994.4	3212.3	1		1810	219	178.	1870.8	3210.4
1		0135	20	10.	9.8	3162.0	1		0955	120	182.	1993.2	3212.3	1		1815	220	178.	1869.5	3210.3
1		0140	21	12.	12.3	3162.2	1		1000	121	182.	1991.9	3212.3	1		1820	221	178.	1868.3	3210.3
1		0145	22	13.	15.4	3162.3	1		1005	122	182.	1990.7	3212.3	1		1825	222	178.	1867.1	3210.3
1		0150	23	15.	19.1	3162.5	1		1010	123	181.	1989.5	3212.2	1		1830	223	178.	1865.9	3210.3
1		0155	24	17.	23.1	3162.7	1		1015	124	181.	1988.2	3212.2	1		1835	224	178.	1864.7	3210.3
1		0200	25	19.	27.5	3162.9	1		1020	125	181.	1987.0	3212.2	1		1840	225	177.	1863.4	3210.2
1		0205	26	21.	32.3	3163.2	1		1025	126	181.	1985.8	3212.2	1		1845	226	177.	1862.2	3210.2
1		0210	27	24.	37.6	3163.5	1		1030	127	181.	1984.5	3212.2	1		1850	227	177.	1861.0	3210.2
1		0215	28	27.	43.5	3163.8	1		1035	128	181.	1983.3	3212.1	1		1855	228	177.	1859.8	3210.2
1		0220	29	30.	50.4	3164.1	1		1040	129	181.	1982.0	3212.1	1		1900	229	177.	1858.5	3210.2
1		0225	30	34.	58.3	3164.5	1		1045	130	181.	1980.8	3212.1	1		1905	230	177.	1857.3	3210.1
1		0230	31	38.	67.3	3165.0	1		1050	131	181.	1979.5	3212.1	1		1910	231	177.	1856.1	3210.1
1		0235	32	43.	77.3	3165.5	1		1055	132	181.	1978.3	3212.1	1		1915	232	177.	1854.9	3210.1
1		0240	33	48.	88.2	3166.0	1		1100	133	181.	1977.0	3212.0	1		1920	233	177.	1853.7	3210.1
1		0245	34	54.	100.2	3166.7	1		1105	134	181.	1975.8	3212.0	1		1925	234	177.	1852.4	3210.1
1		0250	35	58.	113.6	3167.3	1		1110	135	181.	1974.5	3212.0	1		1930	235	177.	1851.2	3210.1
1		0255	36	61.	128.4	3167.9	1		1115	136	181.	1973.3	3212.0	1		1935	236	177.	1850.0	3210.0
1		0300	37	64.	144.4	3168.5	1		1120	137	181.	1972.0	3212.0	1		1940	237	177.	1848.8	3210.0
1		0305	38	67.	161.6	3169.2	1		1125	138	181.	1970.8	3211.9	1		1945	238	177.	1847.6	3210.0
1		0310	39	71.	180.6	3170.0	1		1130	139	181.	1969.6	3211.9	1		1950	239	177.	1846.3	3210.0
1		0315	40	75.	202.1	3170.8	1		1135	140	181.	1968.3	3211.9	1		1955	240	177.	1845.1	3210.0
1		0320	41	79.	227.4	3171.9	1		1140	141	181.	1967.1	3211.9	1		2000	241	177.	1843.9	3209.9
1		0325	42	84.	258.7	3173.0	1		1145	142	181.	1965.8	3211.9	1		2005	242	177.	1842.7	3209.9
1		0330	43	89.	298.1	3174.4	1		1150	143	181.	1964.6	3211.9	1		2010	243	177.	1841.5	3209.9
1		0335	44	96.	347.0	3176.1	1		1155	144	181.	1963.3	3211.8	1		2015	244	177.	1840.3	3209.9
1		0340	45	102.	403.9	3178.0	1		1200	145	181.	1962.1	3211.8	1		2020	245	177.	1839.0	3209.9
1		0345	46	108.	467.0	3180.0	1		1205	146	181.	1960.8	3211.8	1		2025	246	177.	1837.8	3209.8
1		0350	47	115.	536.3	3182.2	1		1210	147	181.	1959.6	3211.8	1		2030	247	177.	1836.6	3209.8
1		0355	48	121.	613.1	3184.4	1		1215	148	181.	1958.4	3211.8	1		2035	248	177.	1835.4	3209.8
1		0400	49	128.	699.4	3186.8	1		1220	149	180.	1957.1	3211.7	1		2040	249	177.	1834.2	3209.8
1		0405	50	134.	796.8	3189.3	1		1225	150	180.	1955.9	3211.7	1		2045	250	177.	1833.0	3209.8
1		0410	51	140.	906.7	3192.1	1		1230	151	180.	1954.6	3211.7	1		2050	251	176.	1831.7	3209.7
1		0415	52	146.	1030.0	3194.9	1		1235	152	180.	1953.4	3211.7	1		2055	252	176.	1830.5	3209.7
1		0420	53	153.	1167.6	3197.8	1		1240	153	180.	1952.1	3211.7	1		2100	253	176.	1829.3	3209.7
1		0425	54	160.	1320.8	3200.9	1		1245	154	180.	1950.9	3211.6	1		2105	254	176.	1828.1	3209.7
1		0430	55	166.	1490.6	3204.0	1		1250	155	180.	1949.7	3211.6	1		2110	255	176.	1826.9	3209.7
1		0435	56	172.	1677.6	3207.3	1		1255	156	180.	1948.4	3211.6	1		2115	256	176.	1825.7	3209.6
1		0440	57	178.	1881.3	3210.5	1		1300	157	180.	1947.2	3211.6	1		2120	257	176.	1824.5	3209.6
1		0445	58	5901.	2079.9	3213.5	1		1305	158	180.	1945.9	3211.6	1		2125	258	176.	1823.2	3209.6
1		0450	59	20609.	2219.9	3215.5	1		1310	159	180.	1944.7	3211.5	1		2130	259	176.	1822.0	3209.6
1		0455	60	28586.	2289.9	3216.4	1		1315	160	180.	1943.5	3211.5	1		2135	260	176.	1820.8	3209.6
1		0500	61	32378.	2323.2	3216.9	1		1320	161	180.	1942.2	3211.5	1		2140	261	176.	1819.6	3209.5
1		0505	62	34296.	2335.7	3217.1	1		1325	162	180.	1941.0	3211.5	1		2145	262	176.	1818.4	3209.5
1		0510	63	34347.	2336.0	3217.1	1		1330	163	180.	1939.7	3211.5	1		2150	263	176.	1817.2	3209.5
1		0515	64	33232.	2330.7	3217.0	1		1335	164	180.	1938.5	3211.4	1		2155	264	176.	1816.0	3209.5
1		0520	65	32145.	2321.1	3216.9	1		1340	165	180.	1937.3	3211.4	1		2200	265	176.	1814.8	3209.5
1		0525	66	30576.	2307.4	3216.7	1		1345	166	180.	1936.0	3211.4	1		2205	266	176.	1813.5	3209.5
1		0530	67	28748.	2291.3	3216.4	1		1350	167	180.	1934.8	3211.4	1		2210	267	176.	1812.3	3209.4
1		0535	68	26822.	2274.4	3216.2	1		1355	168	180.	1933.5	3211.4	1		2215	268	176.	1811.1	3209.4
1		0540	69	24913.	2257.7	3216.0	1		1400	169	180.	1932.3	3211.3	1		2220	269	176.	1809.9	3209.4
1		0545	70	23099.	2241.8	3215.8	1		1405	170	180.	1931.1	3211.3	1		2225	270	176.	1808.7	3209.4
1		0550	71	21429.	2227.1	3215.6	1		1410	171	180.	1929.8	3211.3	1		2230	271	176.	1807.5	3209.4
1		0555	72	19914.	2213.8	3215.4	1		1415	172	180.	1928.6	3211.3	1		2235	272	176.	1806.3	3209.3
1		0600	73	18536.	2201.7	3215.2	1		1420	173	180.	1927.4	3211.3	1		2240	273	176.	1805.1	3209.3
1		0605	74	17266.	2190.6	3215.0	1		1425	174	179.	1926.1	3211.2	1		2245	274	176.	1803.9	3209.3
1		0610	75	16071.	2180.1	3214.9	1		1430	175	179.	1924.9	3211.2	1		2250	275	176.	1802.6	3209.3
1		0615	76	14921.	2170.0	3214.8	1		1435	176	179.	1923.7	3211.2	1		2255	276	176.	1801.4	3209.3
1		0620	77	13792.	2160.1	3214.6	1		1440	177	179.	1922.4	3211.2	1		2300	277	175.	1800.2	3209.2
1		0625	78	12673.	2150.3	3214.5	1		1445	178	179.	1921.2	3211.2	1		2305	278	175.	1799.0	3209.2
1		0630	79	11564.	2140.5	3214.4	1		1450	179	179.	1919.9	3211.1	1		2310	279	175.	1797.8	3209.2
1		0635	80	10472.	2130.9	3214.2	1		1455	180	179.	1918.7	3211.1	1		2315	280	175.	1796.6	3209.2
1		0640	81	9409.	2121.6	3214.1	1		1500	181	179.	1917.5	3211.1	1		2320	281	175.	1795.4	3209.2
1		0645	82	8456.	2112.5	3214.0	1		1505	182	179.	1916.2	3211.1	1		2325	282	175.	1794.2	3209.1
1		0650	83	7706.	2102.9	3213.8	1		1510	183	179.	1915.0	3211.1	1		2330	283	175.	1793.0	3209.1
1		0655	84	6921.	2092.9	3213.7	1		1515	184	179.	1913.8	3211.0	1		2335	284	175.	1791.8	3209.1
1		0700	85	6152.	2083.1	3213.6	1		1520	185	179.	1912.5	3211.0	1		2340	285	175.	1790.6	3209.1
1		0705	86	5426.	2073.8	3213.4	1		1525	186	179.	1911.3	3211.0	1		2345	286	175.	1789.4	3209.1
1		0710	87	4758.	2065.3	3213.3	1		1530	187	179.	1910.1	3211.0	1		2350	287	175.	1788.2	3209.1
1		0715	88	4154.	2057.6	3213.2	1		1535	188	179.	1908.8	3211.0	1		2355	288	175.	1787.0	3209.0
1		0720	89	3612.	2050.7	3213.1	1		1540	189	179.	1907.6	3210.9	2		0000	289	175.	1785.7	3209.0
1		0725	90	3130.	2044.6	3213.0	1		1545	190	179.	1906.4	3210.9	2		0005	290	175.	1784.5	3209.0
1		0730	91	2702.	2039.1	3212.9	1		1550	191	179.	1905.2	3210.9	2		0010	291	175.	1783.3	3209.0
1		0735	92	2324.	2034.3	3212.9	1		1555	192	179.	1903.9	3210.9	2		0015	292	175.	1782.1	3209.0
1		0740	93	1991.	2030.1	3212.8	1		1600	193	179.	1902.7	3210.9	2		0020	293	175.	1780.9	3208.9
1		0745	94	1698.	2026.3	3212.8	1		1605	194	179.	1901.5	3210.8	2		0025	294	175.	1779.7	3208.9
1		0750	95	1442.	2023.1	3212.7	1		1610	195	179.	1900.2	3210.8	2		0030	295	175.	1778.5	3208.9
1		0755	96	1219.	2020.2	3212.7	1		1615	196	179.	1899.0	3210.8	2		0035	296	175.	1777.3	3208.9
1		0800	97	1026.	2017.8	3212.6	1		1620	197	179.	1897.8	3210.8	2		0040	297	175.	1776.1	3208.9
1		0805	98	859.	2015.6	3212.6	1		1625	198	179.	1896.5	3210.8	2		0045	298	175.	1774.9	3208.8
1		0810	99	717.	2013.8	3212.6	1		1630	199	179.	1895.3	3210.8	2		0050	299	175.	1773.7	3208.8
1		0815	100	596.	2012.3	3212.6	1		1635	200	178.	1894.1	3210.7	2		0055	300	175.	1772.5	3208.8

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 34347.	5.17		8232.	2174.	2094.	2094.
		(INCHES)	1.398	1.477	1.477	1.477
		(AC-FT)	4082.	4311.	4312.	4312.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
2336.	5.17	2088.	1688.	1625.	1625.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3217.07	5.17	3213.61	3205.37	3203.74	3203.74

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .91

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	3161.0
1		0005	2	0.	.0	3161.0
1		0010	3	0.	.0	3161.0
1		0015	4	0.	.0	3161.0
1		0020	5	0.	.0	3161.0
1		0025	6	0.	.0	3161.0
1		0030	7	0.	.2	3161.0
1		0035	8	0.	.4	3161.0
1		0040	9	1.	.8	3161.1
1		0045	10	1.	1.3	3161.1
1		0050	11	2.	1.6	3161.2
1		0055	12	2.	1.9	3161.2
1		0100	13	2.	2.3	3161.3
1		0105	14	3.	2.7	3161.3
1		0110	15	4.	3.2	3161.4
1		0115	16	4.	3.9	3161.4
1		0120	17	5.	4.8	3161.5
1		0125	18	7.	5.9	3161.7
1		0130	19	8.	7.4	3161.8
1		0135	20	10.	9.4	3162.0
1		0140	21	11.	11.8	3162.1
1		0145	22	13.	14.8	3162.3
1		0150	23	14.	18.3	3162.5
1		0155	24	16.	22.2	3162.7
1		0200	25	18.	26.5	3162.9
1		0205	26	21.	31.2	3163.1
1		0210	27	23.	36.3	3163.4
1		0215	28	26.	42.0	3163.7
1		0220	29	29.	48.7	3164.0
1		0225	30	33.	56.4	3164.4
1		0230	31	37.	65.2	3164.9
1		0235	32	42.	75.0	3165.4
1		0240	33	47.	85.6	3165.9
1		0245	34	52.	97.4	3166.5
1		0250	35	58.	110.5	3167.1
1		0255	36	60.	125.0	3167.7
1		0300	37	63.	140.7	3168.4
1		0305	38	66.	157.6	3169.0
1		0310	39	70.	176.1	3169.8
1		0315	40	74.	197.2	3170.6
1		0320	41	78.	222.2	3171.6
1		0325	42	83.	252.9	3172.8
1		0330	43	88.	291.8	3174.2
1		0335	44	95.	339.9	3175.9
1		0340	45	101.	396.1	3177.8
1		0345	46	107.	458.3	3179.7
1		0350	47	114.	526.7	3181.9
1		0355	48	120.	602.5	3184.1
1		0400	49	127.	687.7	3186.5
1		0405	50	133.	783.9	3189.0
1		0410	51	139.	892.5	3191.7
1		0415	52	146.	1014.3	3194.5
1		0420	53	152.	1150.3	3197.5
1		0425	54	159.	1301.7	3200.5
1		0430	55	165.	1469.5	3203.7
1		0435	56	171.	1654.4	3206.9
1		0440	57	177.	1855.8	3210.1
1		0445	58	4182.	2058.0	3213.2
1		0450	59	19094.	2206.6	3215.3
1		0455	60	27715.	2282.3	3216.3
1		0500	61	31786.	2318.0	3216.8
1		0505	62	33588.	2332.5	3217.0
1		0510	63	33937.	2334.1	3217.0
1		0515	64	33001.	2328.6	3217.0
1		0520	65	31863.	2318.7	3216.8
1		0525	66	30284.	2304.8	3216.6
1		0530	67	28465.	2288.8	3216.4
1		0535	68	26555.	2272.1	3216.2
1		0540	69	24665.	2255.5	3216.0
1		0545	70	22870.	2239.7	3215.7
1		0550	71	21218.	2225.2	3215.5
1		0555	72	19719.	2212.1	3215.3
1		0600	73	18356.	2200.1	3215.2
1		0605	74	17099.	2189.1	3215.0
1		0610	75	15917.	2178.7	3214.9
1		0615	76	14778.	2168.7	3214.7
1		0620	77	13661.	2158.9	3214.6
1		0625	78	12553.	2149.2	3214.5
1		0630	79	11455.	2139.6	3214.3
1		0635	80	10373.	2130.1	3214.2
1		0640	81	9321.	2120.9	3214.1
1		0645	82	8397.	2111.7	3214.0
1		0650	83	7645.	2102.1	3213.8
1		0655	84	6863.	2092.2	3213.7
1		0700	85	6098.	2082.4	3213.5
1		0705	86	5378.	2073.2	3213.4
1		0710	87	4716.	2064.8	3213.3
1		0715	88	4116.	2057.2	3213.2
1		0720	89	3579.	2050.3	3213.1
1		0725	90	3101.	2044.2	3213.0
1		0730	91	2677.	2038.8	3212.9
1		0735	92	2303.	2034.0	3212.9
1		0740	93	1973.	2029.8	3212.8
1		0745	94	1683.	2026.1	3212.8
1		0750	95	1429.	2022.9	3212.7
1		0755	96	1208.	2020.1	3212.7
1		0800	97	1017.	2017.6	3212.6
1		0805	98	851.	2015.5	3212.6
1		0810	99	710.	2013.7	3212.6
1		0815	100	590.	2012.2	3212.6
1		0820	101	486.	2010.9	3212.6
1		0825	102	401.	2009.8	3212.5
1		0830	103	331.	2008.9	3212.5
1		0835	104	272.	2008.2	3212.5
1		0840	105	224.	2007.5	3212.5
1		0845	106	184.	2007.0	3212.5
1		0850	107	182.	2006.5	3212.5
1		0855	108	182.	2005.8	3212.5
1		0900	109	182.	2005.1	3212.5
1		0905	110	182.	2004.2	3212.5
1		0910	111	182.	2003.3	3212.4
1		0915	112	182.	2002.3	3212.4
1		0920	113	182.	2001.3	3212.4
1		0925	114	182.	2000.2	3212.4
1		0930	115	182.	1999.1	3212.4
1		0935	116	182.	1997.9	3212.4
1		0940	117	182.	1996.7	3212.3
1		0945	118	182.	1995.5	3212.3
1		0950	119	182.	1994.3	3212.3
1		0955	120	182.	1993.1	3212.3
1		1000	121	182.	1991.9	3212.3
1		1005	122	182.	1990.7	3212.3
1		1010	123	181.	1989.4	3212.2
1		1015	124	181.	1988.2	3212.2
1		1020	125	181.	1987.0	3212.2
1		1025	126	181.	1985.7	3212.2
1		1030	127	181.	1984.5	3212.2
1		1035	128	181.	1983.2	3212.1
1		1040	129	181.	1982.0	3212.1
1		1045	130	181.	1980.7	3212.1
1		1050	131	181.	1979.5	3212.1
1		1055	132	181.	1978.2	3212.1
1		1100	133	181.	1977.0	3212.0
1		1105	134	181.	1975.7	3212.0
1		1110	135	181.	1974.5	3212.0
1		1115	136	181.	1973.2	3212.0
1		1120	137	181.	1972.0	3212.0
1		1125	138	181.	1970.7	3211.9
1		1130	139	181.	1969.5	3211.9
1		1135	140	181.	1968.3	3211.9
1		1140	141	181.	1967.0	3211.9
1		1145	142	181.	1965.8	3211.9
1		1150	143	181.	1964.5	3211.8
1		1155	144	181.	1963.3	3211.8
1		1200	145	181.	1962.0	3211.8
1		1205	146	181.	1960.8	3211.8
1		1210	147	181.	1959.5	3211.8
1		1215	148	181.	1958.3	3211.8
1		1220	149	180.	1957.1	3211.7
1		1225	150	180.	1955.8	3211.7
1		1230	151	180.	1954.6	3211.7
1		1235	152	180.	1953.3	3211.7
1		1240	153	180.	1952.1	3211.7
1		1245	154	180.	1950.9	3211.6
1		1250	155	180.	1949.6	3211.6
1		1255	156	180.	1948.4	3211.6
1		1300	157	180.	1947.1	3211.6
1		1305	158	180.	1945.9	3211.6
1		1310	159	180.	1944.6	3211.5
1		1315	160	180.	1943.4	3211.5
1		1320	161	180.	1942.2	3211.5
1		1325	162	180.	1940.9	3211.5
1		1330	163	180.	1939.7	3211.5
1		1335	164	180.	1938.5	3211.4
1		1340	165	180.	1937.2	3211.4
1		1345	166	180.	1936.0	3211.4
1		1350	167	180.	1934.7	3211.4
1		1355	168	180.	1933.5	3211.4
1		1400	169	180.	1932.3	3211.3
1		1405	170	180.	1931.0	3211.3
1		1410	171	180.	1929.8	3211.3
1		1415	172	180.	1928.5	3211.3
1		1420	173	180.	1927.3	3211.3
1		1425	174	179.	1926.1	3211.2
1		1430	175	179.	1924.8	3211.2
1		1435	176	179.	1923.6	3211.2
1		1440	177	179.	1922.4	3211.2
1		1445	178	179.	1921.1	3211.2
1		1450	179	179.	1919.9	3211.1
1		1455	180	179.	1918.7	3211.1
1		1500	181	179.	1917.4	3211.1
1		1505	182	179.	1916.2	3211.1
1		1510	183	179.	1915.0	3211.1
1		1515	184	179.	1913.7	3211.0
1		1520	185	179.	1912.5	3211.0
1		1525	186	179.	1911.3	3211.0
1		1530	187	179.	1910.0	3211.0
1		1535	188	179.	1908.8	3211.0
1		1540	189	179.	1907.6	3210.9
1		1545	190	179.	1906.3	3210.9
1		1550	191	179.	1905.1	3210.9
1		1555	192	179.	1903.9	3210.9
1		1600	193	179.	1902.6	3210.9
1		1605	194	179.	1901.4	3210.8
1		1610	195	179.	1900.2	3210.8
1		1615	196	179.	1898.9	3210.8
1		1620	197	179.	1897.7	3210.8
1		1625	198	179.	1896.5	3210.8
1		1630	199	179.	1895.3	3210.8
1		1635	200	178.	1894.0	3210.7
1		1640	201	178.	1892.8	3210.7
1		1645	202	178.	1891.5	3210.7
1		1650	203	178.	1890.3	3210.7
1		1655	204	178.	1889.1	3210.7
1		1700	205	178.	1887.9	3210.6
1		1705	206	178.	1886.6	3210.6
1		1710	207	178.	1885.4	3210.6
1		1715	208	178.	1884.2	3210.6
1		1720	209	178.	1882.9	3210.6
1		1725	210	178.	1881.7	3210.5
1		1730	211	178.	1880.5	3210.5
1		1735	212	178.	1879.3	3210.5
1		1740	213	178.	1878.0	3210.5
1		1745	214	178.	1876.8	3210.5
1		1750	215	178.	1875.6	3210.4
1		1755	216	178.	1874.4	3210.4
1		1800	217	178.	1873.2	3210.4
1		1805	218	178.	1871.9	3210.4
1		1810	219	178.	1870.7	3210.4
1		1815	220	178.	1869.5	3210.3
1		1820	221	178.	1868.3	3210.3
1		1825	222	178.	1867.1	3210.3
1		1830	223	178.	1865.8	3210.3
1		1835	224	178.	1864.6	3210.3
1		1840	225	177.	1863.4	3210.2
1		1845	226	177.	1862.1	3210.2
1		1850	227	177.	1860.9	3210.2
1		1855	228	177.	1859.7	3210.2
1		1900	229	177.	1858.5	3210.2
1		1905	230	177.	1857.3	3210.1
1		1910	231	177.	1856.1	3210.1
1		1915	232	177.	1854.8	3210.1
1		1920	233	177.	1853.6	3210.1
1		1925	234	177.	1852.4	3210.1
1		1930	235	177.	1851.2	3210.1
1		1935	236	177.	1850.0	3210.0
1		1940	237	177.	1848.7	3210.0
1		1945	238	177.	1847.5	3210.0
1		1950	239	177.	1846.3	3210.0
1		1955	240	177.	1845.1	3210.0
1		2000	241	177.	1843.9	3209.9
1		2005	242	177.	1842.6	3209.9
1		2010	243	177.	1841.4	3209.9
1		2015	244	177.	1840.2	3209.9
1		2020	245	177.	1839.0	3209.9
1		2025	246	177.	1837.8	3209.8
1		2030	247	177.	1836.6	3209.8
1		2035	248	177.	1835.3	3209.8
1		2040	249	177.	1834.1	3209.8
1		2045	250	177.	1832.9	3209.8
1		2050	251	176.	1831.7	3209.7
1		2055	252	176.	1830.5	3209.7
1		2100	253	176.	1829.3	3209.7
1		2105	254	176.	1828.0	3209.7
1		2110	255	176.	1826.8	3209.7
1		2115	256	176.	1825.6	3209.6
1		2120	257	176.	1824.4	3209.6
1		2125	258	176.	1823.2	3209.6
1		2130	259	176.	1822.0	3209.6
1		2135	260	176.	1820.8	3209.6
1		2140	261	176.	1819.6	3209.5
1		2145	262	176.	1818.3	3209.5
1		2150	263	176.	1817.1	3209.5
1		2155	264	176.	1815.9	3209.5
1		2200	265	176.	1814.7	3209.5
1		2205	266	176.	1813.5	3209.5
1		2210	267	176.	1812.3	3209.4
1		2215	268	176.	1811.1	3209.4
1		2220	269	176.	1809.9	3209.4
1		2225	270	176.	1808.6	3209.4
1		2230	271	176.	1807.4	3209.4
1		2235	272	176.	1806.2	3209.3
1		2240	273	176.	1805.0	3209.3
1		2245	274	176.	1803.8	3209.3
1		2250	275	176.	1802.6	3209.3
1		2255	276	176.	1801.4	3209.3
1		2300	277	175.	1800.2	3209.2
1		2305	278	175.	1799.0	3209.2
1		2310	279	175.	1797.8	3209.2
1		2315	280	175.	1796.6	3209.2
1		2320	281	175.	1795.4	3209.2
1		2325	282	175.	1794.1	3209.1
1		2330	283	175.	1792.9	3209.1
1		2335	284	175.	1791.7	3209.1
1		2340	285	175.	1790.5	3209.1
1		2345	286	175.	1789.3	3209.1
1		2350	287	175.	1788.1	3209.0
1		2355	288	175.	1786.9	3209.0
1		0000	289	175.	1785.7	3209.0
1		0005	290	175.	1784.5	3209.0
1		0010	291	175.	1783.3	3209.0
1		0015	292	175.	1782.1	3209.0
1		0020	293	175.	1780.9	3208.9
1		0025	294	175.	1779.7	3208.9
1		0030	295	175.	1778.5	3208.9
1		0035	296	175.	1777.3	3208.9
1		0040	297	175.	1776.1	3208.9
1		0045	298	175.	1774.9	3208.8
1		0050	299	175.	1773.7	3208.8
1		0055	300	175.	1772.5	3208.8

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
	(CFS)				
+ 33937.	5.17	8096.	2140.	2061.	2061.
	(INCHES)	1.375	1.454	1.454	1.454
	(AC-FT)	4014.	4244.	4244.	4244.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
2334.	5.17	2086.	1686.	1624.	1624.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3217.04	5.17	3213.60	3205.34	3203.71	3203.71

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .90

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	3161.0
1		0005	2	0.	.0	3161.0
1		0010	3	0.	.0	3161.0
1		0015	4	0.	.0	3161.0
1		0020	5	0.	.0	3161.0
1		0025	6	0.	.0	3161.0
1		0030	7	0.	.2	3161.0
1		0035	8	0.	.4	3161.0
1		0040	9	1.	.8	3161.1
1		0045	10	1.	1.2	3161.1
1		0050	11	2.	1.6	3161.2
1		0055	12	2.	1.9	3161.2
1		0100	13	2.	2.2	3161.2
1		0105	14	3.	2.6	3161.3
1		0110	15	3.	3.1	3161.3
1		0115	16	4.	3.8	3161.4
1		0120	17	5.	4.6	3161.5
1		0125	18	6.	5.8	3161.6
1		0130	19	8.	7.2	3161.8
1		0135	20	10.	9.1	3162.0
1		0140	21	11.	11.5	3162.1
1		0145	22	13.	14.4	3162.3
1		0150	23	14.	17.8	3162.4
1		0155	24	16.	21.6	3162.6
1		0200	25	18.	25.8	3162.9
1		0205	26	20.	30.4	3163.1
1		0210	27	23.	35.3	3163.3
1		0215	28	25.	41.0	3163.6
1		0220	29	28.	47.5	3164.0
1		0225	30	32.	55.1	3164.4
1		0230	31	36.	63.7	3164.8
1		0235	32	41.	73.3	3165.3
1		0240	33	46.	83.8	3165.8
1		0245	34	51.	95.4	3166.4
1		0250	35	57.	108.3	3167.1
1		0255	36	60.	122.6	3167.6
1		0300	37	63.	138.0	3168.3
1		0305	38	66.	154.7	3168.9
1		0310	39	69.	173.0	3169.7
1		0315	40	73.	193.8	3170.5
1		0320	41	78.	218.4	3171.5
1		0325	42	82.	248.8	3172.6
1		0330	43	88.	287.2	3174.0
1		0335	44	94.	334.9	3175.7
1		0340	45	101.	390.5	3177.6
1		0345	46	107.	452.2	3179.6
1		0350	47	114.	526.7	3181.9
1		0355	48	120.	602.5	3184.1
1		0400	49	127.	687.7	3186.5
1		0405	50	133.	783.9	3189.0
1		0410	51	139.	892.5	3191.7
1		0415	52	146.	1014.3	3194.5
1		0420	53	152.	1150.3	3197.5
1		0425	54	159.	1301.7	3200.5
1		0430	55	165.	1469.5	3203.7
1		0435	56	171.	1654.4	3206.9
1		0440	57	177.	1855.8	3210.1
1		0445	58	4182.	2058.0	3213.2
1		0450	59	19094.	2206.6	3215.3
1		0455	60	27715.	2282.3	3216.3
1		0500	61	31786.	2318.0	3216.8
1		0505	62	33588.	2332.5	3217.0
1		0510	63	33937.	2334.1	3217.0
1		0515	64	33001.	2328.6	3217.0
1		0520	65	31863.	2318.7	3216.8
1		0525	66	30284.	2304.8	3216.6
1		0530	67	28465.	2288.8	3216.4
1		0535	68	26555.	2272.1	3216.2
1		0540	69	24665.	2255.5	3216.0
1		0545	70	22870.	2239.7	3215.7
1		0550	71	21218.	2225.2	3215.5
1		0555	72	19719.	2212.1	3215.3
1		0600	73	18356.	2200.1	3215.2
1		0605	74	17099.	2189.1	3215.0
1		0610	75	15917.	2178.7	3214.9
1		0615	76	14778.	2168.7	3214.7
1		0620	77	13661.	2158.9	3214.6
1		0625	78	12553.	2149.2	3214.5
1		0630	79	11455.	2139.6	3214.3
1		0635	80	10373.	2130.1	3214.2
1		0640	81	9321.	2120.9	3214.1
1		0645	82	8397.	2111.7	3214.0
1		0650	83	7645.	2102.1	3213.8
1		0655	84	6863.	2092.2	3213.7
1		0700	85	6098.	2082.4	3213.5
1		0705	86	5378.	2073.2	3213.4
1		0710	87	4716.	2064.8	3213.3
1		0715	88	4116.	2057.2	3213.2
1		0720	89	3579.	2050.3	3213.1
1		0725	90	3101.	2044.2	3213.0
1		0730	91	2677.	2038.8	3212.9
1		0735	92	2303.	2034.0	3212.9
1		0740	93	1973.	2029.8	3212.8
1		0745	94	1683.	2026.1	3212.8
1		0750	95	1429.	2022.9	3212.7
1		0755	96	1208.	2020.1	3212.7
1		0800	97	1017.	2017.6	3212.6
1		0805	98	851.	2015.5	3212.6
1		0810	99	710.	2013.7	3212.6
1		0815	100	590.	2012.2	3212.6
1		0820	101	486.	2010.9	3212.6
1		0825	102	401.	2009.8	3212.5
1		0830	103	331.	2008.9	3212.5
1		0835	104	272.	2008.2	3212.5
1		0840	105	224.	2007.5	3212.5
1		0845	106	184.	2007.0	3212.5
1		0850	107	182.	2006.5	3212.5
1		0855	108	182.	2005.8	3212.5
1		0900	109	182.	2005.1	3212.5
1		0905	110	182.	2004.2	3212.5
1		0910	111	182.	2003.3	3212.4
1		0915	112	182.	2002.3	3212.4
1		0920	113	182.	2001.3	3212.4
1		0925	114	182.	2000.2	3212.4
1		0930	115	182.	1999.0	3212.4
1		0935	116	182.	1997.9	3212.4
1		0940	117	182.	1996.7	3212.3
1		0945	118	182.	1995.5	3212.3
1		0950	119	182.	1994.3	3212.3
1		0955	120	182.	1993.1	3212.3
1		1000	121	182.	1991.9	3212.3
1		1005	122	182.	1990.6	3212.3
1		1010	123	181.	1989.4	3212.2
1		1015	124	181.	1988.2	3212.2
1		1020	125	181.	1986.9	3212.2
1		1025	126	181.	1985.7	3212.2
1		1030	127	181.	1984.4	3212.2
1		1035	128	181.	1983.2	3212.1
1		1040	129	181.	1981.9	3212.1
1		1045	130	181.	1980.7	3212.1
1		1050	131	181.	1979.4	3212.1
1		1055	132	181.	1978.2	3212.1
1		1100	133	181.	1976.9	3212.0
1		1105	134	181.	1975.7	3212.0
1		1110	135	181.	1974.5	3212.0
1		1115	136	181.	1973.2	3212.0
1		1120	137	181.	1972.0	3212.0
1		1125	138	181.	1970.7	3211.9
1		1130	139	181.	1969.5	3211.9
1		1135	140	181.	1968.2	3211.9
1		1140	141	181.	1967.0	3211.9
1		1145	142	181.	1965.8	3211.9
1		1150	143	181.	1964.5	3211.8
1		1155	144	181.	1963.3	3211.8
1		1200	145	181.	1962.0	3211.8
1		1205	146	181.	1960.8	3211.8
1		1210	147	181.	1959.5	3211.8
1		1215	148	181.	1958.3	3211.8
1		1220	149	180.	1957.1	3211.7
1		1225	150	180.	1955.8	3211.7
1		1230	151	180.	1954.6	3211.7
1		1235	152	180.	1953.3	3211.7
1		1240

1	0350	47	113.	519.9	3181.7	*	1	1210	147	181.	1959.5	3211.8	*	1	2030	247	177.	1836.5	3209.8	1	0035	8	0.	.4	3161.0	*	1	0855	108	182.	2005.8	3212.5	*	1	1715	208	178.	1884.1	3210.6
1	0355	48	119.	595.1	3183.9	*	1	1215	148	181.	1958.3	3211.8	*	1	2035	248	177.	1835.3	3209.8	1	0040	9	1.	.8	3161.1	*	1	0900	109	182.	2005.0	3212.5	*	1	1720	209	178.	1882.9	3210.6
1	0400	49	126.	679.4	3186.3	*	1	1220	149	180.	1957.0	3211.7	*	1	2040	249	177.	1834.1	3209.8	1	0045	10	1.	1.2	3161.1	*	1	0905	110	182.	2004.2	3212.5	*	1	1725	210	178.	1881.7	3210.5
1	0405	50	132.	774.8	3188.8	*	1	1225	150	180.	1955.8	3211.7	*	1	2045	250	177.	1832.9	3209.8	1	0050	11	2.	1.5	3161.2	*	1	0910	111	182.	2003.3	3212.4	*	1	1730	211	178.	1880.4	3210.5
1	0410	51	139.	882.4	3191.5	*	1	1230	151	180.	1954.5	3211.7	*	1	2050	251	176.	1831.7	3209.7	1	0055	12	2.	1.8	3161.2	*	1	0915	112	182.	2002.3	3212.4	*	1	1735	212	178.	1879.2	3210.5
1	0415	52	145.	1003.1	3194.3	*	1	1235	152	180.	1953.3	3211.7	*	1	2055	252	176.	1830.4	3209.7	1	0100	13	2.	2.1	3161.2	*	1	0920	113	182.	2001.2	3212.4	*	1	1740	213	178.	1878.0	3210.5
1	0420	53	152.	1138.0	3197.3	*	1	1240	153	180.	1952.1	3211.7	*	1	2100	253	176.	1829.2	3209.7	1	0105	14	3.	2.5	3161.3	*	1	0925	114	182.	2000.1	3212.4	*	1	1745	214	178.	1876.8	3210.5
1	0425	54	158.	1288.1	3200.2	*	1	1245	154	180.	1950.8	3211.6	*	1	2105	254	176.	1828.0	3209.7	1	0110	15	3.	2.9	3161.3	*	1	0930	115	182.	1999.0	3212.4	*	1	1750	215	178.	1875.5	3210.4
1	0430	55	164.	1454.5	3203.4	*	1	1250	155	180.	1949.6	3211.6	*	1	2110	255	176.	1826.8	3209.7	1	0115	16	4.	3.6	3161.4	*	1	0935	116	182.	1997.8	3212.4	*	1	1755	216	178.	1874.3	3210.4
1	0435	56	170.	1637.9	3206.6	*	1	1255	156	180.	1948.3	3211.6	*	1	2115	256	176.	1825.6	3209.6	1	0120	17	5.	4.4	3161.5	*	1	0940	117	182.	1996.7	3212.3	*	1	1800	217	178.	1873.1	3210.4
1	0440	57	177.	1837.7	3209.8	*	1	1300	157	180.	1947.1	3211.6	*	1	2120	257	176.	1824.4	3209.6	1	0125	18	6.	5.5	3161.6	*	1	0945	118	182.	1995.5	3212.3	*	1	1805	218	178.	1871.9	3210.4
1	0445	58	2957.	2042.4	3213.0	*	1	1305	158	180.	1945.9	3211.6	*	1	2125	258	176.	1823.2	3209.6	1	0130	19	8.	6.9	3161.8	*	1	0950	119	182.	1994.2	3212.3	*	1	1810	219	178.	1870.6	3210.4
1	0450	59	18015.	2197.1	3215.1	*	1	1310	159	180.	1944.6	3211.5	*	1	2130	259	176.	1821.9	3209.6	1	0135	20	10.	8.6	3162.0	*	1	0955	120	182.	1993.0	3212.3	*	1	1815	220	178.	1869.4	3210.3
1	0455	60	27093.	2276.8	3216.2	*	1	1315	160	180.	1943.4	3211.5	*	1	2135	260	176.	1820.7	3209.6	1	0140	21	11.	10.9	3162.1	*	1	1000	121	182.	1991.8	3212.3	*	1	1820	221	178.	1868.2	3210.3
1	0500	61	31364.	2314.3	3216.8	*	1	1320	161	180.	1942.1	3211.5	*	1	2140	261	176.	1819.5	3209.5	1	0145	22	12.	13.7	3162.2	*	1	1005	122	182.	1990.6	3212.3	*	1	1825	222	178.	1867.0	3210.3
1	0505	62	33147.	2329.9	3217.0	*	1	1325	162	180.	1940.9	3211.5	*	1	2145	262	176.	1818.3	3209.5	1	0150	23	14.	17.0	3162.4	*	1	1010	123	181.	1989.3	3212.2	*	1	1830	223	178.	1865.7	3210.3
1	0510	63	33591.	2332.5	3217.0	*	1	1330	163	180.	1939.7	3211.5	*	1	2150	263	176.	1817.1	3209.5	1	0155	24	16.	20.7	3162.6	*	1	1015	124	181.	1988.1	3212.2	*	1	1835	224	178.	1864.5	3210.3
1	0515	64	32829.	2327.1	3216.9	*	1	1335	164	180.	1938.4	3211.4	*	1	2155	264	176.	1815.9	3209.5	1	0200	25	18.	24.7	3162.8	*	1	1020	125	181.	1986.9	3212.2	*	1	1840	225	177.	1863.3	3210.2
1	0520	65	31659.	2316.9	3216.8	*	1	1340	165	180.	1937.2	3211.4	*	1	2200	265	176.	1814.7	3209.5	1	0205	26	20.	29.1	3163.0	*	1	1025	126	181.	1985.6	3212.2	*	1	1845	226	177.	1862.1	3210.2
1	0525	66	30075.	2303.0	3216.6	*	1	1345	166	180.	1935.9	3211.4	*	1	2205	266	176.	1813.5	3209.5	1	0210	27	22.	33.9	3163.3	*	1	1030	127	181.	1984.4	3212.2	*	1	1850	227	177.	1860.9	3210.2
1	0530	67	28263.	2287.1	3216.4	*	1	1350	167	180.	1934.7	3211.4	*	1	2210	267	176.	1812.2	3209.4	1	0215	28	25.	39.3	3163.5	*	1	1035	128	181.	1983.1	3212.1	*	1	1855	228	177.	1859.6	3210.2
1	0535	68	26365.	2270.4	3216.2	*	1	1355	168	180.	1933.5	3211.4	*	1	2215	268	176.	1811.0	3209.4	1	0220	29	28.	45.6	3163.9	*	1	1040	129	181.	1981.9	3212.1	*	1	1900	229	177.	1858.4	3210.2
1	0540	69	24488.	2253.9	3215.9	*	1	1400	169	180.	1932.2	3211.3	*	1	2220	269	176.	1809.8	3209.4	1	0225	30	31.	53.0	3164.2	*	1	1045	130	181.	1980.6	3212.1	*	1	1905	230	177.	1857.2	3210.1
1	0545	70	22707.	2238.3	3215.7	*	1	1405	170	180.	1931.0	3211.3	*	1	2225	270	176.	1808.6	3209.4	1	0230	31	35.	61.4	3164.7	*	1	1050	131	181.	1979.4	3212.1	*	1	1910	231	177.	1856.0	3210.1
1	0550	71	21068.	2223.9	3215.5	*	1	1410	171	180.	1929.8	3211.3	*	1	2230	271	176.	1807.4	3209.4	1	0235	32	40.	70.7	3165.1	*	1	1055	132	181.	1978.1	3212.1	*	1	1915	232	177.	1854.7	3210.1
1	0555	72	19580.	2210.9	3215.3	*	1	1415	172	180.	1928.5	3211.3	*	1	2235	272	176.	1806.2	3209.3	1	0240	33	44.	80.9	3165.7	*	1	1100	133	181.	1976.9	3212.0	*	1	1920	233	177.	1853.5	3210.1
1	0600	73	18227.	2199.0	3215.2	*	1	1420	173	180.	1927.3	3211.3	*	1	2240	273	176.	1805.0	3209.3	1	0245	34	50.	92.2	3166.2	*	1	1105	134	181.	1975.6	3212.0	*	1	1925	234	177.	1852.3	3210.1
1	0605	74	16980.	2188.1	3215.0	*	1	1425	174	179.	1926.0	3211.2	*	1	2245	274	176.	1803.8	3209.3	1	0250	35	56.	104.8	3166.9	*	1	1110	135	181.	1974.4	3212.0	*	1	1930	235	177.	1851.1	3210.0
1	0610	75	15807.	2177.8	3214.9	*	1	1430	175	179.	1924.8	3211.2	*	1	2250	275	176.	1802.6	3209.3	1	0255	36	59.	118.8	3167.5	*	1	1115	136	181.	1973.2	3212.0	*	1	1935	236	177.	1849.9	3210.0
1	0615	76	14677.	2167.8	3214.7	*	1	1435	176	179.	1923.6	3211.2	*	1	2255	276	176.	1801.4	3209.3	1	0300	37	62.	133.8	3168.1	*	1	1120	137	181.	1971.9	3212.0	*	1	1940	237	177.	1848.6	3210.0
1	0620	77	13567.	2158.1	3214.6	*	1	1440	177	179.	1922.3	3211.2	*	1	2300	277	175.	1800.1	3209.2	1	0305	38	65.	150.1	3168.7	*	1	1125	138	181.	1970.7	3211.9	*	1	1945	238	177.	1847.4	3210.0
1	0625	78	12468.	2148.5	3214.5	*	1	1445	178	179.	1921.1	3211.2	*	1	2305	278	175.	1798.9	3209.2	1	0310	39	68.	168.0	3169.5	*	1	1130	139	181.	1969.4	3211.9	*	1	1950	239	177.	1846.2	3210.0
1	0630	79	11377.	2138.9	3214.3	*	1	1450	179	179.	1919.9	3211.1	*	1	2310	279	175.	1797.7	3209.2	1	0315	40	72.	188.4	3170.3	*	1	1135	140	181.	1968.2	3211.9	*	1	1955	240	177.	1845.0	3210.0
1	0635	80	10303.	2129.5	3214.2	*	1	1455	180	179.	1918.6	3211.1	*	1	2315	280	175.	1796.5	3209.2	1	0320	41	77.	212.5	3171.3	*	1	1140	141	181.	1966.9	3211.9	*	1	2000	241	177.	1843.8	3209.9
1	0640	81	9258.	2120.3	3214.1	*	1	1500	181	179.	1917.4	3211.1	*	1	2320	281	175.	1795.3	3209.2	1	0325	42	82.	242.3	3172.4	*	1	1145	142	181.	1965.7	3211.9	*	1	2005	242	177.	1842.6	3209.9
1	0645	82	8355.	2111.2	3213.9	*	1	1505	182	179.	1916.2	3211.1	*	1	2325	282	175.	1794.1	3209.1	1	0330	43	87.	280.1	3173.7	*	1	1150	143	181.	1964.4	3211.8	*	1	2010	243	177.	1841.3	3209.9
1	0650	83	7602.	2101.6	3213.8	*	1	1510	183	179.	1914.9	3211.1	*	1	2330	283	175.	1792.9	3209.1	1	0335	44	93.	326.9	3175.4	*	1	1155	144	181.	1963.2	3211.8	*	1	2015	244	177.	1840.1	3209.9
1	0655	84	6822.	2091.6	3213.7	*	1	1515	184	179.	1913.7	3211.0	*	1	2335	284	175.	1791.7	3209.1	1	0340	45	100.	381.7	3177.3	*	1	1200	145	181.	1961.9	3211.8	*	1	2020	245	177.	1838.9	3209.9
1	0700	85	6060.	2081.9	3213.5	*	1	1520	185	179.	1912.5	3211.0	*	1	2340	285	175.	1790.5	3209.1	1	0345	46	106.	442.4	3179.2	*	1	1205	146	181.	1960.7	3211.8	*	1	2025	246	177.	1837.7	3209.8
1	0705	86	5344.	2072.8	3213.4	*	1	1525	186	179.	1911.2	3211.0	*	1	2345	286	175.	1789.3	3209.1	1	0350	47	112.	509.1	3181.4	*	1	1210	147	181.	1959.5	3211.8	*	1	2030	247	177.	1836.5	3209.8
1	0710	87	4685.	2064.4	3213.3	*	1	1530	187	179.	1910.0	3211.0	*	1	2350	287	175.	1788.1	3209.0	1	0355	48	118.	583.1	3183.5	*	1	1215	148	180.	1958.2	3211.7	*	1	2035	248	177.	1835.3	3209.8
1	0715	88	4089.	2056.8	3213.2	*	1	1535	188	179.	1908.8	3211.0	*	1	2355	288	175.	1786.9	3209.0	1	0400	49	125.	666.2	3185.9	*	1	1220	149	180.	1957.0	3211.7	*	1	2040	249	177.	1834.0	3209.8
1	0720	89	3556.	2050.0	3213.1	*	1	1540	189	179.	1907.5	3210.9	*	2	0000	289	175.	1785.7	3209.0	1	0405	50	131.	760.1	3188.4	*	1	1225	150	180.	1955.7	3211.7	*	1	2045	250	177.	1832.8	3209.8
1	0725	90	3081.	2044.0	3213.0	*	1	1545	190	179.	1906.3	3210.9	*	2	0005	290	175.	1784.5	3209.0	1	0410	51	138.	866.2	3191.1	*	1	1230	151	180.	1954.5	3211.7	*	1	2050	251	176.	1831.6	3209.7
1	0730	91	2660.	2038.6	3212.9	*	1	1550	191	179.	1905.1	3210.9	*	2	0010	291	175.	1783.3	3209.0	1	0415	52	144.	985.3	3193.9	*	1	1235	152	180.	1953.2	3211.7	*	1	2055	252	176.	1830.4	3209.7
1	0735	92	2288.	2033.8	3212.9	*	1	1555	192	179.	1903.8	3210.9	*	2	0015	292	175.	1782.1	3209.0	1	0420	53	151.	1118.2	3196.8	*	1	1240	153	180.	1952.0	3211.7	*	1	2100	253	176.	1829.2	3209.7
1	0740	93	1960.	2029.7	3212.8	*	1	1600	193	179.	1902.6	3210.9	*	2	0020	293	175.	1780.8	3208.9	1	0425	54	157.	1266.3	3199.8	*	1	1245	154	180.	1950.8	3211.6	*	1	2105	254	176.	1828.0	3209.7
1	0745	94	1672.	2026.0	3212.8	*	1	1605	194	179.	1901.4	3210.8	*	2	0025	294	175.	1779.6	3208.9	1	0430	55	164.	1430.6	3203.0	*	1	1250	155	180.	1949.5	3211.6	*	1	2110	255	176.	1826.7	3209.7
1	0750	95	1420.	2022.8	3212.7	*	1	1610	195	179.	1900.1	3210.8	*	2	0030	295	175.	1778.4	3208.9	1	0435	56	169.	1611.5	3206.2	*	1	1255	156	180.	1948.3	3211.6	*	1	2115	256	176.	1825.5	3209.6
1	0755	96	1200.	2020.0	3212.7	*	1	1615	196	179.	1898.9	3210.8	*	2	0035	296	175.	1777.2	3208.9	1	0440	57	176.	1808.7	3209.4	*	1	1300	157	180.	1947.0	3211.6	*	1	2120	257	176.	1824.3	3209.6
1	0800	97	1010.	2017.6	3212.6	*	1	1620	197	179.	1897.7	3210.8	*	2	0040	297	175.	1776.0	3208.9	1	0445	58	999.	2017.4	3212.6	*	1	1305	158	180.	1945.8	3211.6	*	1	2125	258	176.	1823.1	3209.6
1	0805	98	846.	2015.5	3212.6	*	1	1625	198	179.	1896.5	3210.8	*	2	0045	298	175.	1774.8	3208.8	1	0450	59	16289.	2182.0	3214.9	*	1	1310	159	180.	1944.6	3211.5	*	1	2130	259	176.	1821.9	3209.6
1	0810	99	706.	2013.7	3212.6	*	1	1630	199	178.	1895.2	3210.7	*	2	0050	299	175.	1773.6	3208.8	1	0455	60	26101.	2268.1	3216.1	*	1	1315	160	180.	1943.3	3211.5	*	1	2135	260	176.	1820.7	3209.6
1	0815	100	586.	2012.2	3212.6	*	1	1635	200	178.	1894.0	3210.7	*	2	0055	300	175.	1772.4	3208.8	1	0500	61	30689.	2308.4	3216.7	*	1	1320	161	180.	1942.1	3211.5	*	1	2140	261	176.	1819.5	3209.5
						*							*							1	0505	62	32614.	2325.2	3216.9	*	1	1325	162	180.	1940.8	3211.5	*	1	2145	262	176.	1818.3	3209.5
1	0510	63	33019.	2328.8	3217.0	*	1	1330	163	180.	1939.6	3211.5	*	1	2150	263	176.	1817.0	3209.5
1	0515	64	32469.	2324.0	3216.9	*	1	1335	164	180.	1938.4	3211.4	*	1	2155	264	176.	1815.8	3209.5
1	0520	65	31294.	2313.7	3216.8	*	1	1340	165	180.	1937.1	3211.4	*	1	2200	265	176.	1814.6	3209.5
1	0525	66	29723.	2299.9	3216.6	*	1	1345	166	180.	1935.9	3211.4	*	1	2205	266	176.	1813.4	3209.5
1	0530	67	27932.	2284.2	3216.3	*	1	1350	167	180.	1934.6	3211.4	*	1	2210	267	176.	1812.2	3209.4
1	0535	68	26057.	2267.7	3216.1	*	1	1355	168	180.	1933.4	3211.4	*	1	2215	268	176.	1811.0	3209.4
1	0540	69	24204.	2251.4	3215.9	*	1	1400	169	180.	1932.2	3211.3	*	1	2220	269	176.	1809.8	3209.4
1	0545	70	22445.	2236.0	3215.7	*	1	1405	170	180.	1930.9	3211.3	*	1	2225	270	176.	1808.6	3209.4
1	0550	71	20826.	2221.8	3215.5	*	1	1410	171	180.	1929.7	3211.3	*	1	2230	271	176.	1807.4	3209.4
1	0555	72	19357.	2208.9	3215.3	*	1	1415	172	180.	1928.5	3211.3	*	1	2235	272	176.	1806.1	3209.3
1	0600	73	18021.	2197.2	3215.1	*	1	1420	173	180.	1927.2	3211.3	*	1	2240	273	176.	1804.9	3209.3
1	0605	74	16790.	2186.4	3215.0	*	1	1425	174	179.	1926.0	3211.2	*	1	2245	274	176.	1803.7	3209.3
1	0610	75	15631.	2176.2	3214.9	*	1	1430	175	179.	1924.7	3211.2	*	1	2250	275	176.	1802.5	3209.3
1	0615	76	14514.	2166.4	3214.7	*	1	1435	176	179.	1923.5	3211.2	*	1	2255	276	176.	1801.3	3209.3
1	0620	77	13418.	2156.8	3214.6	*	1	1440	177	179.	1922.3	3211.2	*	1	2300	277	175.	1800.1	3209.2
1	0625	78	12331.	2147.3	3214.4	*	1	1445	178	179.	1921.0	3211.2	*	1	2305	278	175.	1798.9	3209.2
1	0630	79	11253.	2137.8	3214.3	*	1	1450	179	179.	1919.8	3211.1	*	1	2310	279	175.	1797.7	3209.2
1	0635	80	10191.	2128.5	3214.2	*	1	1455	180	179.	1918.6	3211.1	*	1	2315	280	175.	1796.5	3209.2
1	0640	81	9158.	2119.4	3214.1	*	1	1500	181	179.	1917.3	3211.1	*	1	2320	281	175.	1795.3	3209.2
1	0645	82	8287.	2110.3	3213.9	*	1	1505	182	179.	1916.1	3211.1	*	1	2325	282	175.	1794.1	3209.1
1	0650	83	7533.	2100.7	3213.8	*	1	1510	183	179.	1914.9	3211.1	*	1	2330	283	175.	1792.8	3209.1
1	0655	84	6756.	2090.8	3213.7	*	1	1515	184	179.	1913.6	3211.0	*	1	2335	284	175.	1791.6	3209.1
1	0700	85	5999.	2081.2	3213.5	*	1	1520	185	179.	1912.4	3211.0	*	1	2340	285	175.	1790.4	3209.1
1	0705	86	5289.	2072.1	3213.4	*	1	1525	186	179.	1911.2	3211.0	*	1	2345	286	175.	1789.2	3209.1
1	0710	87	4636.	2063.8	3213.3	*	1	1530	187	179.	1909.9	3211.0	*	1	2350	287	175.	1788.0	3209.0
1	0715	88	4046.	2056.3	3213.2	*	1	1535	188	179.	1908.7	3211.0	*	1	2355	288	175.	1786.8	3209.0
1	0720	89	3518.	2049.5	3213.1	*	1	1540	189	179.	1907.5	3210.9	*	2	0000	289	175.	1785.6	3209.0
1	0725	90	3048.	2043.5	3213.0	*	1	1545	190	179.	1906.2	3210.9	*	2	0005	290	175.	1784.4	3209.0
1	0730	91	2631.	2038.2	3212.9	*	1	1550	191	179.	1905.0	3210.9	*	2	0010	291	175.	1783.2	3209.0
1	0735	92	2263.	2033.5	3212.9	*	1	1555	192	179.	1903.8	3210.9	*	2	0015	292	175.	1782.0	3209.0
1	0740	93	1939.	2029.4	3212.8	*	1	1600	193	179.	1902.5	3210.9	*	2	0020	293	175.	1780.8	3208.9
1	0745	94	1654.	2025.8	3212.8	*	1	1605	194	179.	1901.3	3210.8	*	2	0025	294	175.	1779.6	3208.9
1	0750	95	1405.	2022.6	3212.7	*	1	1610	195	179.	1900.1	3210.8	*	2	0030	295	175.	1778.4	3208.9
1	0755	96	1187.	2019.8	3212.7	*	1	1615	196	179.	1898.9	3210.8	*	2	0035	296	175.	1777.2	3208.9
1	0800	97	999.	2017.4	3212.6	*	1	1620	197	179.	1897.6	3210.8	*	2	0040	297	175.	1776.0	3208.8
1	0805	98	837.	2015.3	3212.6	*	1	1625	198	179.	1896.4	3210.8	*	2	0045	298	175.	1774.8	3208.8
1	0810	99	698.	2013.6	3212.6	*	1	1630	199	178.	1895.2	3210.7	*	2	0050	299	175.	1773.6	3208.8
1	0815	100	580.	2012.1	3212.6	*	1	1635	200	178.	1893.9	3210.7	*	2	0055	300	175.	1772.4	3208.8
													*																						

PEAK FLOW TIME MAXIMUM AVERAGE FLOW

	6-HR	24-HR	72-HR	24.92-HR
+ (CFS) (HR)				
(CFS)				
+ 33591. 5.17	7998.	2115.	2037.	2037.
(INCHES)	1.359	1.437	1.437	1.437
(AC-FT)	3966.	4195.	4195.	4195.

PEAK STORAGE TIME MAXIMUM AVERAGE STORAGE

	6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT) (HR)				
2332. 5.17	2086.	1685.	1623.	1623.

PEAK STAGE TIME MAXIMUM AVERAGE STAGE

	6-HR	24-HR	72-HR	24.92-HR
+ (FEET) (HR)				
3217.02 5.17	3213.59	3205.32	3203.69	3203.69

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .89

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 33019.	5.17	7843.	2076.	2000.	2000.
		(INCHES) 1.332	1.411	1.411	1.411
		(AC-FT) 3889.	4118.	4118.	4118.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
2329.	5.17	2084.	1684.	1622.	1622.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3216.97	5.17	3213.57	3205.29	3203.66	3203.66

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .88

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	3161.0	1		0820	101	474.	2010.7	3212.6	1		1640	201	178.	1892.6	3210.7
1		0005	2	0.	.0	3161.0	1		0825	102	392.	2009.7	3212.5	1		1645	202	178.	1891.4	3210.7
1		0010	3	0.	.0	3161.0	1		0830	103	323.	2008.8	3212.5	1		1650	203	178.	1890.2	3210.7
1		0015	4	0.	.0	3161.0	1		0835	104	266.	2008.1	3212.5	1		1655	204	178.	1888.9	3210.6
1		0020	5	0.	.0	3161.0	1		0840	105	219.	2007.5	3212.5	1		1700	205	178.	1887.7	3210.6
1		0025	6	0.	.0	3161.0	1		0845	106	182.	2007.0	3212.5	1		1705	206	178.	1886.5	3210.6
1		0030	7	0.	.1	3161.0	1		0850	107	182.	2006.4	3212.5	1		1710	207	178.	1885.3	3210.6
1		0035	8	0.	.4	3161.0	1		0855	108	182.	2005.8	3212.5	1		1715	208	178.	1884.0	3210.6
1		0040	9	1.	.7	3161.1	1		0900	109	182.	2005.0	3212.5	1		1720	209	178.	1882.8	3210.6
1		0045	10	1.	1.1	3161.1	1		0905	110	182.	2004.1	3212.5	1		1725	210	178.	1881.6	3210.5
1		0050	11	2.	1.4	3161.2	1		0910	111	182.	2003.2	3212.4	1		1730	211	178.	1880.4	3210.5
1		0055	12	2.	1.7	3161.2	1		0915	112	182.	2002.2	3212.4	1		1735	212	178.	1879.1	3210.5
1		0100	13	2.	2.0	3161.2	1		0920	113	182.	2001.1	3212.4	1		1740	213	178.	1877.9	3210.5
1		0105	14	3.	2.3	3161.3	1		0925	114	182.	2000.0	3212.4	1		1745	214	178.	1876.7	3210.5
1		0110	15	3.	2.8	3161.3	1		0930	115	182.	1998.9	3212.4	1		1750	215	178.	1875.4	3210.4
1		0115	16	4.	3.3	3161.4	1		0935	116	182.	1997.7	3212.4	1		1755	216	178.	1874.2	3210.4
1		0120	17	5.	4.1	3161.5	1		0940	117	182.	1996.6	3212.3	1		1800	217	178.	1873.0	3210.4
1		0125	18	6.	5.1	3161.6	1		0945	118	182.	1995.4	3212.3	1		1805	218	178.	1871.8	3210.4
1		0130	19	7.	6.4	3161.7	1		0950	119	182.	1994.2	3212.3	1		1810	219	178.	1870.6	3210.4
1		0135	20	9.	8.1	3161.9	1		0955	120	182.	1992.9	3212.3	1		1815	220	178.	1869.3	3210.3
1		0140	21	11.	10.3	3162.1	1		1000	121	182.	1991.7	3212.3	1		1820	221	178.	1868.1	3210.3
1		0145	22	12.	12.9	3162.2	1		1005	122	181.	1990.5	3212.2	1		1825	222	178.	1866.9	3210.3
1		0150	23	13.	16.0	3162.4	1		1010	123	181.	1989.3	3212.2	1		1830	223	178.	1865.7	3210.3
1		0155	24	15.	19.5	3162.5	1		1015	124	181.	1988.0	3212.2	1		1835	224	178.	1864.4	3210.3
1		0200	25	17.	23.4	3162.7	1		1020	125	181.	1986.8	3212.2	1		1840	225	177.	1863.2	3210.2
1		0205	26	19.	27.5	3162.9	1		1025	126	181.	1985.5	3212.2	1		1845	226	177.	1862.0	3210.2
1		0210	27	21.	32.1	3163.2	1		1030	127	181.	1984.3	3212.2	1		1850	227	177.	1860.8	3210.2
1		0215	28	24.	37.3	3163.4	1		1035	128	181.	1983.0	3212.1	1		1855	228	177.	1859.5	3210.2
1		0220	29	26.	43.4	3163.8	1		1040	129	181.	1981.8	3212.1	1		1900	229	177.	1858.3	3210.2
1		0225	30	30.	50.5	3164.1	1		1045	130	181.	1980.5	3212.1	1		1905	230	177.	1857.1	3210.1
1		0230	31	34.	58.5	3164.5	1		1050	131	181.	1979.3	3212.1	1		1910	231	177.	1855.9	3210.1
1		0235	32	38.	67.5	3165.0	1		1055	132	181.	1978.1	3212.1	1		1915	232	177.	1854.7	3210.1
1		0240	33	43.	77.4	3165.5	1		1100	133	181.	1976.8	3212.0	1		1920	233	177.	1853.4	3210.1
1		0245	34	48.	88.3	3166.0	1		1105	134	181.	1975.6	3212.0	1		1925	234	177.	1852.2	3210.1
1		0250	35	54.	100.5	3166.7	1		1110	135	181.	1974.3	3212.0	1		1930	235	177.	1851.0	3210.0
1		0255	36	58.	114.0	3167.3	1		1115	136	181.	1973.1	3212.0	1		1935	236	177.	1849.8	3210.0
1		0300	37	61.	128.7	3167.9	1		1120	137	181.	1971.8	3212.0	1		1940	237	177.	1848.6	3210.0
1		0305	38	64.	144.5	3168.5	1		1125	138	181.	1970.6	3211.9	1		1945	238	177.	1847.3	3210.0
1		0310	39	67.	161.9	3169.2	1		1130	139	181.	1969.3	3211.9	1		1950	239	177.	1846.1	3210.0
1		0315	40	71.	181.7	3170.0	1		1135	140	181.	1968.1	3211.9	1		1955	240	177.	1844.9	3210.0
1		0320	41	75.	205.2	3171.0	1		1140	141	181.	1966.8	3211.9	1		2000	241	177.	1843.7	3209.9
1		0325	42	80.	234.3	3172.1	1		1145	142	181.	1965.6	3211.9	1		2005	242	177.	1842.5	3209.9
1		0330	43	85.	271.2	3173.4	1		1150	143	181.	1964.3	3211.8	1		2010	243	177.	1841.3	3209.9
1		0335	44	92.	317.0	3175.1	1		1155	144	181.	1963.1	3211.8	1		2015	244	177.	1840.0	3209.9
1		0340	45	99.	370.6	3177.0	1		1200	145	181.	1961.9	3211.8	1		2020	245	177.	1838.8	3209.9
1		0345	46	105.	430.1	3178.9	1		1205	146	181.	1960.6	3211.8	1		2025	246	177.	1837.6	3209.8
1		0350	47	111.	495.5	3180.9	1		1210	147	181.	1959.4	3211.8	1		2030	247	177.	1836.4	3209.8
1		0355	48	117.	568.1	3183.1	1		1215	148	180.	1958.1	3211.7	1		2035	248	177.	1835.2	3209.8
1		0400	49	124.	649.7	3185.4	1		1220	149	180.	1956.9	3211.7	1		2040	249	177.	1834.0	3209.8
1		0405	50	130.	741.9	3187.9	1		1225	150	180.	1955.6	3211.7	1		2045	250	177.	1832.7	3209.8
1		0410	51	137.	846.1	3190.6	1		1230	151	180.	1954.4	3211.7	1		2050	251	176.	1831.5	3209.7
1		0415	52	143.	963.1	3193.4	1		1235	152	180.	1953.2	3211.7	1		2055	252	176.	1830.3	3209.7
1		0420	53	149.	1093.7	3196.3	1		1240	153	180.	1951.9	3211.6	1		2100	253	176.	1829.1	3209.7
1		0425	54	156.	1239.3	3199.3	1		1245	154	180.	1950.7	3211.6	1		2105	254	176.	1827.9	3209.7
1		0430	55	163.	1400.8	3202.4	1		1250	155	180.	1949.4	3211.6	1		2110	255	176.	1826.7	3209.7
1		0435	56	168.	1578.7	3205.6	1		1255	156	180.	1948.2	3211.6	1		2115	256	176.	1825.4	3209.6
1		0440	57	175.	1772.7	3208.8	1		1300	157	180.	1947.0	3211.6	1		2120	257	176.	1824.2	3209.6
1		0445	58	181.	1980.7	3212.1	1		1305	158	180.	1945.7	3211.6	1		2125	258	176.	1823.0	3209.6
1		0450	59	13225.	2155.1	3214.6	1		1310	159	180.	1944.5	3211.5	1		2130	259	176.	1821.8	3209.6
1		0455	60	24464.	2253.7	3215.9	1		1315	160	180.	1943.2	3211.5	1		2135	260	176.	1820.6	3209.6
1		0500	61	29673.	2299.4	3216.6	1		1320	161	180.	1942.0	3211.5	1		2140	261	176.	1819.4	3209.5
1		0505	62	31874.	2318.7	3216.8	1		1325	162	180.	1940.8	3211.5	1		2145	262	176.	1818.2	3209.5
1		0510	63	32407.	2323.4	3216.9	1		1330	163	180.	1939.5	3211.5	1		2150	263	176.	1817.0	3209.5
1		0515	64	31927.	2319.2	3216.8	1		1335	164	180.	1938.3	3211.4	1		2155	264	176.	1815.7	3209.5
1		0520	65	30800.	2309.3	3216.7	1		1340	165	180.	1937.0	3211.4	1		2200	265	176.	1814.5	3209.5
1		0525	66	29267.	2295.9	3216.5	1		1345	166	180.	1935.8	3211.4	1		2205	266	176.	1813.3	3209.4
1		0530	67	27511.	2280.5	3216.3	1		1350	167	180.	1934.6	3211.4	1		2210	267	176.	1812.1	3209.4
1		0535	68	25669.	2264.3	3216.1	1		1355	168	180.	1933.3	3211.4	1		2215	268	176.	1810.9	3209.4
1		0540	69	23847.	2248.3	3215.9	1		1400	169	180.	1932.1	3211.3	1		2220	269	176.	1809.7	3209.4
1		0545	70	22117.	2233.1	3215.6	1		1405	170	180.	1930.8	3211.3	1		2225	270	176.	1808.5	3209.4
1		0550	71	20524.	2219.2	3215.4	1		1410	171	180.	1929.6	3211.3	1		2230	271	176.	1807.3	3209.4
1		0555	72	19079.	2206.5	3215.3	1		1415	172	180.	1928.4	3211.3	1		2235	272	176.	1806.1	3209.3
1		0600	73	17764.	2194.9	3215.1	1		1420	173	180.	1927.1	3211.3	1		2240	273	176.	1804.8	3209.3
1		0605	74	16552.	2184.3	3215.0	1		1425	174	179.	1925.9	3211.2	1		2245	274	176.	1803.6	3209.3
1		0610	75	15410.	2174.3	3214.8	1		1430	175	179.	1924.7	3211.2	1		2250	275	176.	1802.4	3209.3
1		0615	76	14311.	2164.6	3214.7	1		1435	176	179.	1923.4	3211.2	1		2255	276	176.	1801.2	3209.3
1		0620	77	13231.	2155.2	3214.6	1		1440	177	179.	1922.2	3211.2	1		2300	277	175.	1800.0	3209.2
1		0625	78	12160.	2145.8	3214.4	1		1445	178	179.	1921.0	3211.2	1		2305	278	175.	1798.8	3209.2
1		0630	79	11098.	2136.4	3214.3	1		1450	179	179.	1919.7	3211.1	1		2310	279	175.	1797.6	3209.2
1		0635	80	10051.	2127.3	3214.2	1		1455	180	179.	1918.5	3211.1	1		2315	280	175.	1796.4	3209.2
1		0640	81	9032.	2118.3	3214.0	1		1500	181	179.	1917.3	3211.1	1		2320	281	175.	1795.2	3209.2
1		0645	82	8203.	2109.3	3213.9	1		1505	182	179.	1916.0	3211.1	1		2325	282	175.	1794.0	3209.1
1		0650	83	7447.	2099.6	3213.8	1		1510	183	179.	1914.8	3211.1	1		2330	283	175.	1792.8	3209.1
1		0655	84	6674.	2089.8	3213.6	1		1515	184	179.	1913.6	3211.0	1		2335	284	175.	1791.6	3209.1
1		0700	85	5923.	2080.2	3213.5	1		1520	185	179.	1912.3	3211.0	1		2340	285	175.	1790.4	3209.1
1		0705	86	5220.	2071.2	3213.4	1		1525	186	179.	1911.1	3211.0	1		2345	286	175.	1789.1	3209.1
1		0710	87	4575.	2063.0	3213.3	1		1530	187	179.	1909.9	3211.0	1		2350	287	175.	1787.9	3209.0
1		0715	88	3993.	2055.6	3213.2	1		1535	188	179.	1908.6	3211.0	1		2355	288	175.	1786.7	3209.0
1		0720	89	3471.	2048.9	3213.1	1		1540	189	179.	1907.4	3210.9	2		0000	289	175.	1785.5	3209.0
1		0725	90	3007.	2043.0	3213.0	1		1545	190	179.	1906.2	3210.9	2		0005	290	175.	1784.3	3209.0
1		0730	91	2596.	2037.8	3212.9	1		1550	191	179.	1904.9	3210.9	2		0010	291	175.	1783.1	3209.0
1		0735	92	2233.	2033.1	3212.9	1		1555	192	179.	1903.7	3210.9	2		0015	292	175.	1781.9	3209.0
1		0740	93	1913.	2029.1	3212.8	1		1600	193	179.	1902.5	3210.9	2		0020	293	175.	1780.7	3208.9
1		0745	94	1632.	2025.5	3212.8	1		1605	194	179.	1901.2	3210.8	2		0025	294	175.	1779.5	3208.9
1		0750	95	1386.	2022.3	3212.7	1		1610	195	179.	1900.0	3210.8	2		0030	295	175.	1778.3	3208.9
1		0755	96	1172.	2019.6	3212.7	1		1615	196	179.	1898.8	3210.8	2		0035	296	175.	1777.1	3208.9
1		0800	97	986.	2017.2	3212.6	1		1620	197	179.	1897.5	3210.8	2		0040	297	175.	1775.9	3208.9
1		0805	98	826.	2015.2	3212.6	1		1625	198	179.	1896.3	3210.8	2		0045	298	175.	1774.7	3208.8
1		0810	99	689.	2013.5	3212.6	1		1630	199	178.	1895.1	3210.7	2		0050	299	175.	1773.5	3208.8
1		0815	100	572.	2012.0	3212.6	1		1635	200	178.	1893.9	3210.7	2		0055	300	175.	1772.3	3208.8

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 32407.	5.17	7649.	2028.	1953.	1953.
		(INCHES) 1.299	1.378	1.378	1.378
		(AC-FT) 3793.	4022.	4022.	4022.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
2323.	5.17	2082.	1682.	1620.	1620.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3216.89	5.17	3213.54	3205.24	3203.62	3203.62

CUMULATIVE AREA = 54.73 SQ MI

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PEAK FLOW AND STAGE (END-OF-PERIOD) SUMMARY FOR MULTIPLE PLAN-RATIO ECONOMIC COMPUTATIONS
FLOWS IN CUBIC FEET PER SECOND, AREA IN SQUARE MILES
TIME TO PEAK IN HOURS

OPERATION	STATION	AREA	PLAN		RATIOS APPLIED TO PRECIPITATION RATIO 1 .99	RATIO 2 .98	RATIO 3 .95	RATIO 4 .93	RATIO 5 .92	RATIO 6 .91	RATIO 7 .90	RATIO 8 .89	RATIO 9 .88
HYDROGRAPH AT													
+	RR1	4.22	1	FLOW	5714.	5597.	5404.	5210.	5133.	5079.	5040.	4978.	4901.
				TIME	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92
HYDROGRAPH AT													
+	RR2	3.55	1	FLOW	4368.	4279.	4132.	3985.	3926.	3885.	3855.	3808.	3749.
				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
ROUTED TO													
+	RRR2	3.55	1	FLOW	4356.	4263.	4118.	3969.	3911.	3871.	3838.	3793.	3734.
				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
2 COMBINED AT													
+	CRR2	7.77	1	FLOW	9959.	9754.	9411.	9076.	8939.	8840.	8776.	8667.	8532.
				TIME	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92
ROUTED TO													
+	RCRR2	7.77	1	FLOW	9262.	9071.	8752.	8435.	8308.	8219.	8156.	8056.	7931.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.25	4.25	4.25
HYDROGRAPH AT													
+	RR5	7.13	1	FLOW	7828.	7674.	7416.	7158.	7055.	6983.	6931.	6849.	6746.

				TIME	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08
ROUTED TO													
+	R-RR5	7.13	1	FLOW	7541.	7391.	7141.	6892.	6792.	6722.	6673.	6593.	6493.
				TIME	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25
HYDROGRAPH AT													
+	RR3	14.98	1	FLOW	13504.	13225.	12762.	12299.	12116.	11988.	11897.	11750.	11568.
				TIME	4.17	4.17	4.17	4.25	4.25	4.25	4.25	4.25	4.25
3 COMBINED AT													
+	CRR3	29.89	1	FLOW	30279.	29664.	28643.	27622.	27214.	26929.	26725.	26399.	25992.
				TIME	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25
ROUTED TO													
+	RCRR3	29.89	1	FLOW	28422.	27841.	26874.	25908.	25522.	25252.	25060.	24751.	24366.
				TIME	4.67	4.67	4.67	4.67	4.67	4.67	4.67	4.67	4.67
HYDROGRAPH AT													
+	RR10	8.77	1	FLOW	6006.	5875.	5657.	5440.	5353.	5292.	5249.	5180.	5094.
				TIME	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33
2 COMBINED AT													
+	CRR10	38.66	1	FLOW	33666.	32975.	31823.	30674.	30215.	29894.	29664.	29298.	28840.
				TIME	4.67	4.67	4.67	4.67	4.67	4.67	4.67	4.67	4.67
ROUTED TO													
+	RCRR10	38.66	1	FLOW	32194.	31531.	30425.	29322.	28882.	28573.	28353.	28001.	27562.
				TIME	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
HYDROGRAPH AT													
+	RR12A	5.82	1	FLOW	4964.	4861.	4691.	4520.	4452.	4404.	4370.	4315.	4247.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
ROUTED TO													
+	R-RR12A	5.82	1	FLOW	4776.	4677.	4512.	4347.	4281.	4235.	4202.	4150.	4084.
				TIME	4.42	4.42	4.42	4.42	4.42	4.42	4.42	4.42	4.42
HYDROGRAPH AT													
+	104A	3.39	1	FLOW	1954.	1905.	1823.	1741.	1709.	1686.	1670.	1644.	1612.
				TIME	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25
3 COMBINED AT													
+	C104A	47.87	1	FLOW	36513.	35761.	34508.	33258.	32758.	32409.	32159.	31760.	31262.
				TIME	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
HYDROGRAPH AT													
+	RD1	.43	1	FLOW	687.	673.	648.	624.	614.	608.	603.	595.	585.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
ROUTED TO													
+	R-RD1	.43	1	FLOW	678.	671.	647.	623.	608.	601.	600.	594.	579.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT													
+	RD2	.47	1	FLOW	904.	887.	859.	831.	820.	812.	807.	798.	786.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT													
+	CRD2	.90	1	FLOW	1533.	1506.	1454.	1402.	1381.	1365.	1356.	1343.	1318.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
ROUTED TO													
+	RCRD2	.90	1	FLOW	1491.	1473.	1424.	1371.	1352.	1336.	1325.	1316.	1288.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT													
+	RD3	.33	1	FLOW	599.	588.	569.	550.	542.	537.	533.	527.	519.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT													
+	CRD3	1.23	1	FLOW	2039.	2001.	1931.	1862.	1837.	1814.	1801.	1787.	1751.
				TIME	3.58	3.58	3.67	3.58	3.58	3.67	3.58	3.58	3.67
HYDROGRAPH AT													
+	RR14A	4.60	1	FLOW	4231.	4145.	4000.	3856.	3799.	3759.	3730.	3684.	3627.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
ROUTED TO													
+	R-RR14A	4.60	1	FLOW	4210.	4123.	3979.	3836.	3779.	3737.	3710.	3663.	3607.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
HYDROGRAPH AT													
+	RD4	.40	1	FLOW	633.	619.	596.	572.	563.	557.	552.	545.	536.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT													
+	CRD4	5.00	1	FLOW	4336.	4247.	4099.	3952.	3893.	3850.	3822.	3774.	3716.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
ROUTED TO													
+	RCRD4	5.00	1	FLOW	4320.	4232.	4082.	3934.	3876.	3834.	3804.	3757.	3699.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
HYDROGRAPH AT													
+	RD5	.37	1	FLOW	609.	596.	574.	552.	544.	538.	533.	527.	518.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT													
+	CRD5	5.37	1	FLOW	4427.	4337.	4184.	4032.	3973.	3930.	3899.	3851.	3792.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
ROUTED TO													
+	RCRD5	5.37	1	FLOW	4403.	4314.	4162.	4008.	3951.	3905.	3878.	3827.	3769.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
HYDROGRAPH AT													
+	RD6	.25	1	FLOW	457.	448.	433.	419.	413.	409.	406.	401.	395.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT													
+	CRD6	5.62	1	FLOW	4478.	4388.	4234.	4078.	4019.	3973.	3945.	3893.	3835.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
3 COMBINED AT													
+	INRR	54.73	1	FLOW	39438.	38633.	37290.	35949.	35415.	35039.	34773.	34344.	33810.
				TIME	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
ROUTED TO													
+	RRDB	54.73	1	FLOW	39118.	38299.	36881.	35308.	34347.	33937.	33591.	33019.	32407.
				TIME	5.08	5.08	5.08	5.08	5.17	5.17	5.17	5.17	5.17

** PEAK STAGES IN FEET **

			1	STAGE	3217.38	3217.32	3217.23	3217.13	3217.07	3217.04	3217.02	3216.97	3216.89
				TIME	5.08	5.08	5.08	5.08	5.17	5.17	5.17	5.17	5.17
DIVERSION TO													
+	*D-RROUT	54.73	1	FLOW	38936.	38117.	36699.	35126.	34165.	33755.	33409.	32837.	32225.
				TIME	5.08	5.08	5.08	5.08	5.17	5.17	5.17	5.17	5.17
HYDROGRAPH AT													
+	*DOUTRR	54.73	1	FLOW	182.	182.	182.	182.	182.	182.	182.	182.	182.
				TIME	5.75	4.67	4.83	5.58	5.50	4.92	5.58	4.92	4.83
ROUTED TO													
+	ROUTRR	54.73	1	FLOW	182.	182.	182.	182.	182.	182.	182.	182.	182.
				TIME	4.75	4.83	4.83	4.83	4.83	4.92	4.92	4.92	4.92
HYDROGRAPH AT													
+	R3A	.19	1	FLOW	286.	279.	269.	258.	254.	251.	249.	246.	242.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT													
+	CR3A	54.92	1	FLOW	385.	377.	363.	349.	344.	340.	337.	333.	328.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
ROUTED TO													
+	RCR3A	54.92	1	FLOW	381.	374.	360.	347.	342.	338.	335.	331.	326.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67

1

*** NORMAL END OF HEC-1 ***

B.3.13 100-year_FLAM4A

```
1****************************************
 *                                      *
 *   FLOOD HYDROGRAPH PACKAGE  (HEC-1)  *
 *              JUN   1998              *
 *           VERSION 4.1                *
 *                                      *
 *  RUN DATE   20MAY20  TIME  09:45:08  *
 *                                      *
 ****************************************
```

```
************************************
*                                  *
*    U.S. ARMY CORPS OF ENGINEERS  *
*    HYDROLOGIC ENGINEERING CENTER *
*         609 SECOND STREET        *
*       DAVIS, CALIFORNIA 95616    *
*            (916) 756-1104        *
*                                  *
************************************
```

```
X     X  XXXXXXX   XXXXX           X
X     X  X        X     X         XX
X     X  X        X               X
XXXXXXX  XXXX     X        XXXXX  X
X     X  X        X               X
X     X  X        X     X         X
X     X  XXXXXXX   XXXXX          XXX
```

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL   LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM


```
          LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

                    *DIAGRAM
 *** FREE ***
               1    ID   RED ROCK TRAIL TO FY19-87
               2    ID   US FEDERAL HIGHWAY ADMINISTRATION
               3    ID   PN=WXXY4000
               4    ID
               5    ID   HEC-1 MODEL TAKEN FROM CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT
               6    ID   2018 MASTER PLAN UPDATE
               7    ID   FLAMINGO / TROPICANA WASHES WATERSHED
               8    ID   RECOMMENDED DRAINAGE SYSTEM WITH ULTIMATE DEVELOPMENT
               9    ID   INPUT FILE = FLAM4A.DAT
              10    ID   INPUT FILE DATE = DECEMBER 2019
              11    ID   PRECIPITATION VALUES TAKEN FROM NOAA ATLAS 2 &
              12    ID   ADJUSTED PER CCRFCD HYDRAULIC CRITERIA & DRAINAGE DESIGN MANUAL TABLE 501
              13    ID   DESIGN STORM = 100-YEAR, 6-HOUR STORM
              14    ID   STORM DISTRIBUTION = SDN4
              15    ID   STORM CENTERING = SERIES A: REGIONAL DETENTION BASIN FLOWS NOT DIVERTED OUT
              16    ID   MODELED BY JACOBS (DAVE BERGH, PE)
              17    ID
              18    ID   JR CARDS CONTAIN DARFS BASED ON THE FOLLOWING VALUES:
              19    ID
              20    ID         AREA    DARF
              21    ID         SQ.MI.
              22    ID                 SDN 3   SDN 4   SDN 5
              23    ID         0 - 0.5 0.990
              24    ID         0.5 - 1 0.975
              25    ID         1 - 2   0.950
              26    ID         2 - 3   0.925
              27    ID         3 - 4   0.915
              28    ID         4 - 5   0.908
              29    ID         5 - 6   0.903
              30    ID         6 - 7   0.895
              31    ID         7 - 8   0.885
              32    ID         8 - 9           0.875
              33    ID         9 - 10          0.865
              34    ID         10 - 11         0.857
              35    ID         11 - 12         0.850
              36    ID         12 - 16                 0.832
              37    ID         16 - 20                 0.804
              38    ID         20 - 30                 0.765
              39    ID         30 - 40                 0.725
              40    ID         40 - 50                 0.695
              41    ID         50 - 100                0.640
              42    ID         100 - 150               0.580
              43    ID         150 - 200               0.530
              44    ID
              45    IT      5       0       0     300
              46    IO      5       0       0
              47    IN      5       0       0
              48    JR    PREC   0.875   0.865   0.857    0.85
                    *
```



```
          LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

              49    KK     RR1
              50    BA   4.225
              51    PB    4.16
              52    PC       0    0.02   0.058   0.075   0.099   0.126   0.137   0.145   0.149   0.151
              53    PC   0.155   0.156   0.159   0.162   0.169   0.172   0.179   0.189   0.201   0.211
              54    PC    0.22   0.228   0.232    0.24   0.246   0.252    0.26   0.269   0.276   0.283
              55    PC   0.286   0.292   0.302   0.312   0.321   0.332   0.352   0.376   0.415   0.462
              56    PC    0.53    0.61    0.71   0.732   0.756   0.782   0.799   0.813   0.823    0.83
              57    PC   0.835   0.844   0.851   0.864   0.885   0.908   0.924   0.944   0.968   0.973
              58    PC   0.978   0.982   0.984   0.986   0.988   0.991   0.992   0.993   0.994   0.997
              59    PC   0.998   0.999       1
              60    LS       0    85.8
              61    UD   0.443
                    *

              62    KK     RR2
              63    BA   3.547
              64    PB    4.18
              65    LS       0    86.2
              66    UD   0.545
                    *

              67    KK    RRR2
              68    KM   MUSKINGUM ROUTING UNSTABLE - USED MUSKINGUM-CUNGE
              69    KM   NATURAL WASH
              70    RD    1700   0.076    0.04       0    TRAP     100       2
                    *

              71    KK    CRR2
              72    KM   COMBINE RR1 AND RRR2
              73    HC       2
                    *

              74    KK   RCRR2
              75    KM   ROUTE CRR2 TO CRR3
              76    KM   NATURAL WASH
              77    KM   TRAVEL LENGTH = 15850
              78    KM   SLOPE = 0.043
              79    KM   N = 0.04
              80    KM   HYDRAULIC RADIUS = 1.5
              81    KM   VELOCITY = 16.2
              82    RM       3   0.272    0.15
                    *

              83    KK     RR5
              84    BA   7.132
              85    PB    3.91
              86    LS       0    87.9
              87    UD   0.615
                    *
```



```
          LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

              88    KK   R-RR5
              89    KM   ROUTE RR5 THROUGH RR3 TO CRR3
              90    KM   NATURAL WASH
              91    KM   TRAVEL LENGTH = 10700
              92    KM   SLOPE = 0.037
              93    KM   N = 0.04
              94    KM   HYDRAULIC RADIUS = 1.5
              95    KM   VELOCITY = 15
              96    RM       2   0.198    0.15
                    *

              97    KK     RR3
              98    BA  14.983
              99    PB    3.82
             100    LS       0      87
             101    UD   0.761
                    *

             102    KK    CRR3
             103    KM   COMBINE RCRR2, R-RR5, AND RR3
             104    HC       3
                    *

             105    KK   RCRR3
             106    KM   ROUTE CRR3 THROUGH RR10 TO CRR10
             107    KM   NATURAL WASH
             108    KM   TRAVEL LENGTH = 20700
             109    KM   SLOPE = 0.025
             110    KM   N = 0.04
             111    KM   HYDRAULIC RADIUS = 1.5
             112    KM   VELOCITY = 12.3
             113    RM       6   0.466    0.15
                    *

             114    KK    RR10
             115    BA   8.775
             116    PB    3.44
             117    LS       0    86.1
             118    UD   0.882
```

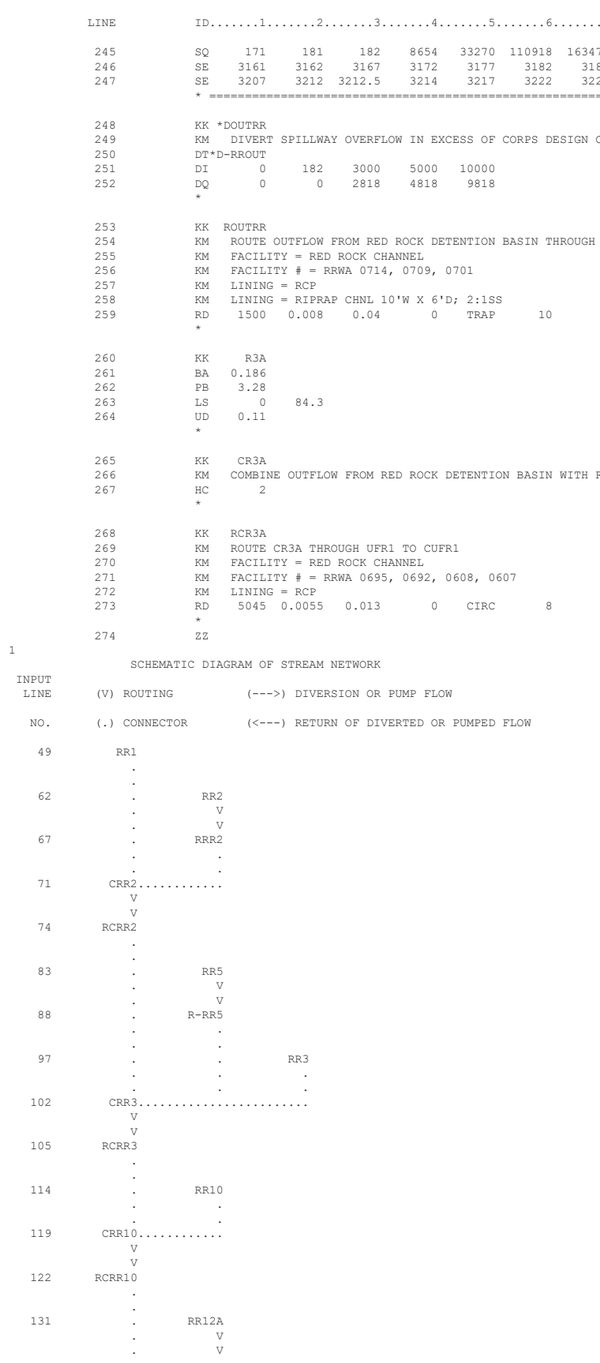
```
                 *

                 KK   CRR10
                 KM   COMBINE RCRR3 AND RR10
                 HC       2
                 *

                 KK  RCRR10
                 KM   ROUTE CRR10 THROUGH 104A TO C104A (RED ROCK DETENTION BASIN)
                 KM   NATURAL WASH
                 KM   TRAVEL LENGTH = 14500
                 KM   SLOPE = 0.021
                 KM   N = 0.04
                 KM   HYDRAULIC RADIUS = 1.5
                 KM   VELOCITY = 11.3
1                                    HEC-1 INPUT                                    PAGE  4

            LINE     ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

                 RM       4   0.356    0.15
                 *

                 KK   RR12A
                 BA   5.821
                 PB    3.53
                 LS       0    87.6
                 UD   0.728
                 *

                 KK R-RR12A
                 KM   ROUTE RR12A THROUGH 104A TO C104A (RED ROCK DETENTION BASIN)
                 KM   NATURAL WASH
                 KM   TRAVEL LENGTH = 12000
                 KM   SLOPE = 0.026
                 KM   N = 0.04
                 KM   HYDRAULIC RADIUS = 1.5
                 KM   VELOCITY = 12.6
                 RM       3   0.265    0.15
                 *

                 KK    104A
                 BA   3.391
                 PB    3.34
                 LS       0    81.3
                 UD   0.801
                 *

                 KK   C104A
                 KM   COMBINE RCRR10, R-RR12A, AND 104A
                 HC       3
                 *

                 KK     RD1
                 BA   0.431
                 PB    3.51
                 LS       0    86.6
                 UD   0.195
                 *

                 KK   R-RD1
                 KM   ROUTE RD1 THROUGH RD2 TO CRD2
                 KM   FUTURE CONCRETE CHANNEL
                 RD    5100   0.061   0.015       0    TRAP      12       2
                 *

                 KK     RD2
                 BA   0.473
                 PB    3.42
                 LS       0    91.2
                 UD   0.167
                 *
1                                    HEC-1 INPUT                                    PAGE  5

            LINE     ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

                 KK    CRD2
                 KM   COMBINE R-RD1 AND RD2
                 HC       2
                 *

                 KK   RCRD2
                 KM   ROUTE CRD2 TO CRD3 (RED ROCK DETENTION BASIN)
                 KM   FUTURE CONCRETE CHANNEL
                 RD    4600    0.05   0.015       0    TRAP      12       2
                 *

                 KK     RD3
                 BA    0.33
                 PB    3.36
                 LS       0    90.3
                 UD   0.168
                 *

                 KK    CRD3
                 KM   COMBINE RCRD2 AND RD3
                 HC       2
                 *

                 KK   RR14A
                 BA   4.602
                 PB    3.75
                 LS       0    87.3
                 UD   0.725
                 *

                 KK R-RR14A
                 KM   ROUTE RR14A THROUGH RD4 TO CRD4
                 KM   FUTURE CONCRETE CHANNEL
                 RD    5500   0.071   0.015       0    TRAP      12       2
                 *

                 KK     RD4
                 BA   0.402
                 PB    3.49
                 LS       0    85.1
                 UD   0.177
                 *

                 KK    CRD4
                 KM   COMBINE R-RR14A AND RD4
                 HC       2
                 *

                 KK   RCRD4
                 KM   ROUTE CRD4 THROUGH RD5 TO CRD5
                 KM   FUTURE CONCRETE CHANNEL
                 RD    4550   0.067   0.015       0    TRAP      20       2
                 *
1                                    HEC-1 INPUT                                    PAGE  6

            LINE     ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

                 KK     RD5
                 BA    0.37
                 PB    3.42
                 LS       0    86.2
                 UD   0.163
                 *

                 KK    CRD5
                 KM   COMBINE RCRD4 AND RD5
                 HC       2
                 *

                 KK   RCRD5
                 KM   ROUTE CRD5 THROUGH RD6 TO CRD6 (RED ROCK DETENTION BASIN)
                 KM   FUTURE CONCRETE CHANNEL
                 RD    5600   0.047   0.015       0    TRAP      20       2
                 *

                 KK     RD6
                 BA    0.25
                 PB    3.36
                 LS       0      90
                 UD    0.16
                 *

                 KK    CRD6
                 KM   COMBINE RCRD5 AND RD6
                 HC       2
                 *

                 KK    INRR
                 KM   COMBINE C104A, CRD3, AND CRD6 - TOTAL INFLOW TO RED ROCK DETENTION BASIN
                 KO       1
                 HC       3
                 * ============================================================

                 KK    RRDB
                 KM   RED ROCK DETENTION BASIN
                 KM   TAKEN FROM THE CORP MODELS FOR RED ROCK DETENTION BASIN
                 KM   100YR COMPUTED PROBABILITY DETENTION DESIGN
                 KM   FACILITY ID-MILE = RRWA 0716
                 KM   STORAGE VOLUME = 2007 ACRE-FEET
                 KM   OUTLET = 27"H x 27"W RCB ORIFICE
                 KM   100-YR DISCHARGE = 182 CFS
                 KM   SPILLWAY LENGTH = 600 FT
                 KM   AUXILLARY OGEE SPILLWAY LENGTH = 323 FT
                 KM   SPILLWAY CREST ELEVATION = 3212.5 FT NGVD
                 KM   PMF DISCHARGE = 110000 CFS
                 KM   TOP OF DAM ELEVATION = 3225 FT NGVD
                 KO       1
                 RS       1    STOR      -1
                 SV       0       9     107     231     372     529     705     903    1125    1376
                 SV    1659    1974    2007    2115    2331    2690    2933
                 SQ       0      10      57      80      99     114     128     140     151     162
```

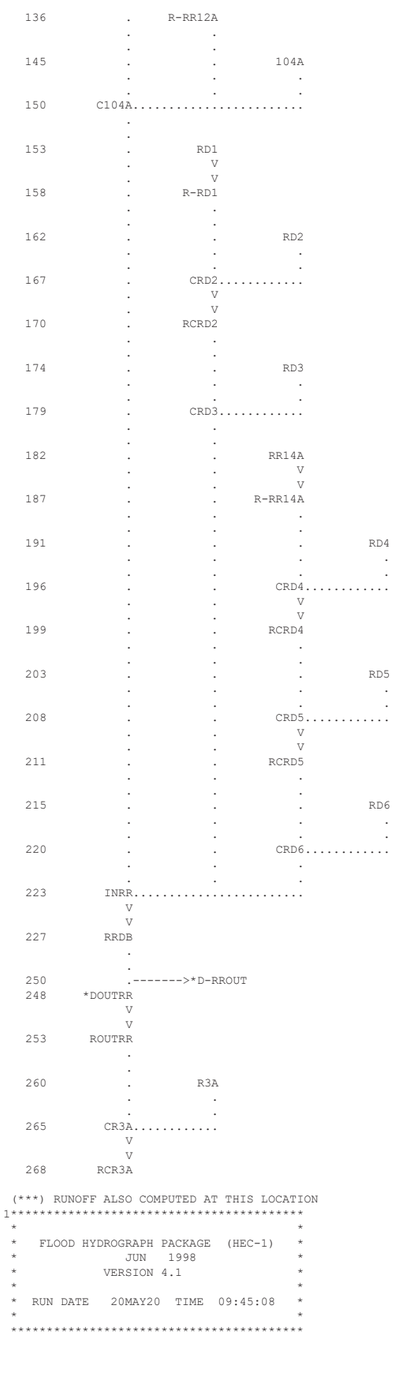
```
  LINE          ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

  245           SQ     171     181     182    8654   33270  110918  163477
  246           SE    3161    3162    3167    3172    3177    3182    3187    3192    3197    3202
  247           SE    3207    3212  3212.5    3214    3217    3222    3225
                * ========================================================

  248           KK *DOUTRR
  249           KM   DIVERT SPILLWAY OVERFLOW IN EXCESS OF CORPS DESIGN OUTFLOW
  250           DT*D-RROUT
  251           DI       0     182    3000    5000   10000
  252           DQ       0       0    2818    4818    9818
                *

  253           KK  ROUTRR
  254           KM   ROUTE OUTFLOW FROM RED ROCK DETENTION BASIN THROUGH R3A TO CR3A
  255           KM   FACILITY = RED ROCK CHANNEL
  256           KM   FACILITY # = RRWA 0714, 0709, 0701
  257           KM   LINING = RCP
  258           KM   LINING = RIPRAP CHNL 10'W X 6'D; 2:1SS
  259           RD    1500   0.008    0.04       0    TRAP      10       2
                *

  260           KK     R3A
  261           BA   0.186
  262           PB    3.28
  263           LS       0    84.3
  264           UD    0.11
                *

  265           KK    CR3A
  266           KM   COMBINE OUTFLOW FROM RED ROCK DETENTION BASIN WITH R3A
  267           HC       2
                *

  268           KK   RCR3A
  269           KM   ROUTE CR3A THROUGH UFR1 TO CUFR1
  270           KM   FACILITY = RED ROCK CHANNEL
  271           KM   FACILITY # = RRWA 0695, 0692, 0608, 0607
  272           KM   LINING = RCP
  273           RD    5045  0.0055   0.013       0    CIRC       8       0
                *

  274           ZZ
```

1

SCHEMATIC DIAGRAM OF STREAM NETWORK

INPUT
LINE (V) ROUTING (---->) DIVERSION OR PUMP FLOW
NO. (.) CONNECTOR (<---) RETURN OF DIVERTED OR PUMPED FLOW





(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

```
1*****************************************
 *                                       *
 *   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
 *             JUN   1998                *
 *          VERSION 4.1                  *
 *                                       *
 *  RUN DATE   20MAY20  TIME  09:45:08   *
 *                                       *
 *****************************************
```

```
*************************************
*                                   *
*    U.S. ARMY CORPS OF ENGINEERS   *
*    HYDROLOGIC ENGINEERING CENTER  *
*         609 SECOND STREET         *
*       DAVIS, CALIFORNIA 95616     *
*           (916) 756-1104          *
*                                   *
*************************************
```

RED ROCK TRAIL TO FY19-87
US FEDERAL HIGHWAY ADMINISTRATION
PN=WXXY4000

HEC-1 MODEL TAKEN FROM CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT
2018 MASTER PLAN UPDATE
FLAMINGO / TROPICANA WASHES WATERSHED
RECOMMENDED DRAINAGE SYSTEM WITH ULTIMATE DEVELOPMENT
INPUT FILE = FLAM4A.DAT
INPUT FILE DATE = DECEMBER 2019
PRECIPITATION VALUES TAKEN FROM NOAA ATLAS 2 &
ADJUSTED PER CCRFCD HYDRAULIC CRITERIA & DRAINAGE DESIGN MANUAL TABLE 501
DESIGN STORM = 100-YEAR, 6-HOUR STORM
STORM DISTRIBUTION = SDN4
STORM CENTERING = SERIES A: REGIONAL DETENTION BASIN FLOWS NOT DIVERTED OUT
MODELED BY JACOBS (DAVE BERGH, PE)

JR CARDS CONTAIN DARFS BASED ON THE FOLLOWING VALUES:

AREA SQ.MI.	DARF SDN 3	SDN 4	SDN 5
0 - 0.5	0.990		
0.5 - 1	0.975		
1 - 2	0.950		
2 - 3	0.925		
3 - 4	0.915		
4 - 5	0.908		
5 - 6	0.903		
6 - 7	0.895		
7 - 8	0.885		
8 - 9		0.875	
9 - 10		0.865	
10 - 11		0.857	
11 - 12		0.850	
12 - 16			0.832
16 - 20			0.804
20 - 30			0.765
30 - 40			0.725
40 - 50			0.695
50 - 100			0.640
100 - 150			0.580
150 - 200			0.530

46 IO OUTPUT CONTROL VARIABLES
IPRNT 5 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE

IT HYDROGRAPH TIME DATA
NMIN 5 MINUTES IN COMPUTATION INTERVAL
IDATE 1 0 STARTING DATE
ITIME 0000 STARTING TIME
NQ 300 NUMBER OF HYDROGRAPH ORDINATES
NDDATE 2 0 ENDING DATE
NDTIME 0055 ENDING TIME
ICENT 19 CENTURY MARK

COMPUTATION INTERVAL .08 HOURS
TOTAL TIME BASE 24.92 HOURS

ENGLISH UNITS
DRAINAGE AREA SQUARE MILES
PRECIPITATION DEPTH INCHES
LENGTH, ELEVATION FEET
FLOW CUBIC FEET PER SECOND
STORAGE VOLUME ACRE-FEET
SURFACE AREA ACRES
TEMPERATURE DEGREES FAHRENHEIT

JP MULTI-PLAN OPTION
NPLAN 1 NUMBER OF PLANS

JR MULTI-RATIO OPTION
RATIOS OF PRECIPITATION
.88 .87 .86 .85

*** ***

****
* *
223 KK * INRR *
* *
****

225 KO OUTPUT CONTROL VARIABLES
IPRNT 1 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE

226 HC HYDROGRAPH COMBINATION
ICOMP 3 NUMBER OF HYDROGRAPHS TO COMBINE

***

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .88

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	13761.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	12759.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	11713.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	10642.	1		1245	154	0.	1		1900	229	0.
1		0020	5	2.	1		0635	80	9574.	1		1250	155	0.	1		1905	230	0.
1		0025	6	17.	1		0640	81	8538.	1		1255	156	0.	1		1910	231	0.
1		0030	7	46.	1		0645	82	7557.	1		1300	157	0.	1		1915	232	0.
1		0035	8	72.	1		0650	83	6651.	1		1305	158	0.	1		1920	233	0.
1		0040	9	84.	1		0655	84	5828.	1		1310	159	0.	1		1925	234	0.
1		0045	10	87.	1		0700	85	5089.	1		1315	160	0.	1		1930	235	0.
1		0050	11	90.	1		0705	86	4432.	1		1320	161	0.	1		1935	236	0.
1		0055	12	99.	1		0710	87	3850.	1		1325	162	0.	1		1940	237	0.
1		0100	13	116.	1		0715	88	3336.	1		1330	163	0.	1		1945	238	0.
1		0105	14	142.	1		0720	89	2882.	1		1335	164	0.	1		1950	239	0.
1		0110	15	179.	1		0725	90	2480.	1		1340	165	0.	1		1955	240	0.
1		0115	16	228.	1		0730	91	2126.	1		1345	166	0.	1		2000	241	0.
1		0120	17	285.	1		0735	92	1813.	1		1350	167	0.	1		2005	242	0.
1		0125	18	355.	1		0740	93	1539.	1		1355	168	0.	1		2010	243	0.
1		0130	19	446.	1		0745	94	1299.	1		1400	169	0.	1		2015	244	0.
1		0135	20	557.	1		0750	95	1091.	1		1405	170	0.	1		2020	245	0.
1		0140	21	678.	1		0755	96	912.	1		1410	171	0.	1		2025	246	0.
1		0145	22	798.	1		0800	97	759.	1		1415	172	0.	1		2030	247	0.
1		0150	23	913.	1		0805	98	630.	1		1420	173	0.	1		2035	248	0.
1		0155	24	1024.	1		0810	99	522.	1		1425	174	0.	1		2040	249	0.
1		0200	25	1140.	1		0815	100	431.	1		1430	175	0.	1		2045	250	0.
1		0205	26	1264.	1		0820	101	355.	1		1435	176	0.	1		2050	251	0.
1		0210	27	1395.	1		0825	102	293.	1		1440	177	0.	1		2055	252	0.
1		0215	28	1535.	1		0830	103	241.	1		1445	178	0.	1		2100	253	0.
1		0220	29	1688.	1		0835	104	198.	1		1450	179	0.	1		2105	254	0.
1		0225	30	1847.	1		0840	105	163.	1		1455	180	0.	1		2110	255	0.
1		0230	31	2007.	1		0845	106	134.	1		1500	181	0.	1		2115	256	0.
1		0235	32	2168.	1		0850	107	110.	1		1505	182	0.	1		2120	257	0.
1		0240	33	2345.	1		0855	108	90.	1		1510	183	0.	1		2125	258	0.
1		0245	34	2554.	1		0900	109	73.	1		1515	184	0.	1		2130	259	0.
1		0250	35	2782.	1		0905	110	60.	1		1520	185	0.	1		2135	260	0.
1		0255	36	3008.	1		0910	111	48.	1		1525	186	0.	1		2140	261	0.
1		0300	37	3238.	1		0915	112	38.	1		1530	187	0.	1		2145	262	0.
1		0305	38	3506.	1		0920	113	30.	1		1535	188	0.	1		2150	263	0.
1		0310	39	3842.	1		0925	114	24.	1		1540	189	0.	1		2155	264	0.
1		0315	40	4287.	1		0930	115	18.	1		1545	190	0.	1		2200	265	0.
1		0320	41	4884.	1		0935	116	14.	1		1550	191	0.	1		2205	266	0.
1		0325	42	5701.	1		0940	117	11.	1		1555	192	0.	1		2210	267	0.
1		0330	43	6779.	1		0945	118	8.	1		1600	193	0.	1		2215	268	0.
1		0335	44	7911.	1		0950	119	6.	1		1605	194	0.	1		2220	269	0.
1		0340	45	8686.	1		0955	120	5.	1		1610	195	0.	1		2225	270	0.
1		0345	46	9312.	1		1000	121	4.	1		1615	196	0.	1		2230	271	0.
1		0350	47	10170.	1		1005	122	3.	1		1620	197	0.	1		2235	272	0.
1		0355	48	11308.	1		1010	123	2.	1		1625	198	0.	1		2240	273	0.
1		0400	49	12634.	1		1015	124	2.	1		1630	199	0.	1		2245	274	0.
1		0405	50	14093.	1		1020	125	1.	1		1635	200	0.	1		2250	275	0.
1		0410	51	15664.	1		1025	126	1.	1		1640	201	0.	1		2255	276	0.
1		0415	52	17350.	1		1030	127	1.	1		1645	202	0.	1		2300	277	0.
1		0420	53	19165.	1		1035	128	0.	1		1650	203	0.	1		2305	278	0.
1		0425	54	21071.	1		1040	129	0.	1		1655	204	0.	1		2310	279	0.
1		0430	55	23047.	1		1045	130	0.	1		1700	205	0.	1		2315	280	0.
1		0435	56	25025.	1		1050	131	0.	1		1705	206	0.	1		2320	281	0.
1		0440	57	26844.	1		1055	132	0.	1		1710	207	0.	1		2325	282	0.
1		0445	58	28325.	1		1100	133	0.	1		1715	208	0.	1		2330	283	0.
1		0450	59	29407.	1		1105	134	0.	1		1720	209	0.	1		2335	284	0.
1		0455	60	30021.	1		1110	135	0.	1		1725	210	0.	1		2340	285	0.
1		0500	61	30052.	1		1115	136	0.	1		1730	211	0.	1		2345	286	0.
1		0505	62	29542.	1		1120	137	0.	1		1735	212	0.	1		2350	287	0.
1		0510	63	28627.	1		1125	138	0.	1		1740	213	0.	1		2355	288	0.
1		0515	64	27419.	1		1130	139	0.	1		1745	214	0.	2		0000	289	0.
1		0520	65	26024.	1		1135	140	0.	1		1750	215	0.	2		0005	290	0.
1		0525	66	24545.	1		1140	141	0.	1		1755	216	0.	2		0010	291	0.
1		0530	67	23073.	1		1145	142	0.	1		1800	217	0.	2		0015	292	0.
1		0535	68	21673.	1		1150	143	0.	1		1805	218	0.	2		0020	293	0.
1		0540	69	20388.	1		1155	144	0.	1		1810	219	0.	2		0025	294	0.
1		0545	70	19243.	1		1200	145	0.	1		1815	220	0.	2		0030	295	0.
1		0550	71	18235.	1		1205	146	0.	1		1820	221	0.	2		0035	296	0.
1		0555	72	17326.	1		1210	147	0.	1		1825	222	0.	2		0040	297	0.
1		0600	73	16462.	1		1215	148	0.	1		1830	223	0.	2		0045	298	0.
1		0605	74	15600.	1		1220	149	0.	1		1835	224	0.	2		0050	299	0.
1		0610	75	14707.	1		1225	150	0.	1		1840	225	0.	2		0055	300	0.

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)				
		(CFS)			
30052.	5.00	11345.	2873.	2767.	2767.
		(INCHES) 1.927	1.952	1.952	1.952
		(AC-FT) 5626.	5698.	5698.	5698.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .87

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	13566.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	12579.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	11548.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	10492.	1		1245	154	0.	1		1900	229	0.
1		0020	5	2.	1		0635	80	9440.	1		1250	155	0.	1		1905	230	0.
1		0025	6	15.	1		0640	81	8418.	1		1255	156	0.	1		1910	231	0.
1		0030	7	43.	1		0645	82	7452.	1		1300	157	0.	1		1915	232	0.
1		0035	8	68.	1		0650	83	6558.	1		1305	158	0.	1		1920	233	0.
1		0040	9	80.	1		0655	84	5747.	1		1310	159	0.	1		1925	234	0.
1		0045	10	83.	1		0700	85	5018.	1		1315	160	0.	1		1930	235	0.
1		0050	11	85.	1		0705	86	4370.	1		1320	161	0.	1		1935	236	0.
1		0055	12	93.	1		0710	87	3797.	1		1325	162	0.	1		1940	237	0.
1		0100	13	109.	1		0715	88	3290.	1		1330	163	0.	1		1945	238	0.
1		0105	14	134.	1		0720	89	2842.	1		1335	164	0.	1		1950	239	0.
1		0110	15	169.	1		0725	90	2446.	1		1340	165	0.	1		1955	240	0.
1		0115	16	216.	1		0730	91	2097.	1		1345	166	0.	1		2000	241	0.
1		0120	17	270.	1		0735	92	1788.	1		1350	167	0.	1		2005	242	0.
1		0125	18	337.	1		0740	93	1517.	1		1355	168	0.	1		2010	243	0.
1		0130	19	423.	1		0745	94	1281.	1		1400	169	0.	1		2015	244	0.
1		0135	20	530.	1		0750	95	1076.	1		1405	170	0.	1		2020	245	0.
1		0140	21	646.	1		0755	96	899.	1		1410	171	0.	1		2025	246	0.
1		0145	22	762.	1		0800	97	749.	1		1415	172	0.	1		2030	247	0.
1		0150	23	873.	1		0805	98	622.	1		1420	173	0.	1		2035	248	0.
1		0155	24	980.	1		0810	99	514.	1		1425	174	0.	1		2040	249	0.
1		0200	25	1093.	1		0815	100	425.	1		1430	175	0.	1		2045	250	0.
1		0205	26	1214.	1		0820	101	350.	1		1435	176	0.	1		2050	251	0.
1		0210	27	1341.	1		0825	102	289.	1		1440	177	0.	1		2055	252	0.
1		0215	28	1479.	1		0830	103	238.	1		1445	178	0.	1		2100	253	0.
1		0220	29	1629.	1		0835	104	195.	1		1450	179	0.	1		2105	254	0.
1		0225	30	1785.	1		0840	105	161.	1		1455	180	0.	1		2110	255	0.
1		0230	31	1942.	1		0845	106	132.	1		1500	181	0.	1		2115	256	0.
1		0235	32	2101.	1		0850	107	108.	1		1505	182	0.	1		2120	257	0.
1		0240	33	2275.	1		0855	108	89.	1		1510	183	0.	1		2125	258	0.
1		0245	34	2480.	1		0900	109	72.	1		1515	184	0.	1		2130	259	0.
1		0250	35	2704.	1		0905	110	59.	1		1520	185	0.	1		2135	260	0.
1		0255	36	2926.	1		0910	111	47.	1		1525	186	0.	1		2140	261	0.
1		0300	37	3152.	1		0915	112	38.	1		1530	187	0.	1		2145	262	0.
1		0305	38	3414.	1		0920	113	30.	1		1535	188	0.	1		2150	263	0.
1		0310	39	3746.	1		0925	114	23.	1		1540	189	0.	1		2155	264	0.
1		0315	40	4183.	1		0930	115	18.	1		1545	190	0.	1		2200	265	0.
1		0320	41	4773.	1		0935	116	14.	1		1550	191	0.	1		2205	266	0.
1		0325	42	5570.	1		0940	117	11.	1		1555	192	0.	1		2210	267	0.
1		0330	43	6627.	1		0945	118	8.	1		1600	193	0.	1		2215	268	0.
1		0335	44	7742.	1		0950	119	6.	1		1605	194	0.	1		2220	269	0.
1		0340	45	8515.	1		0955	120	5.	1		1610	195	0.	1		2225	270	0.
1		0345	46	9138.	1		1000	121	4.	1		1615	196	0.	1		2230	271	0.
1		0350	47	9976.	1		1005	122	3.	1		1620	197	0.	1		2235	272	0.
1		0355	48	11092.	1		1010	123	2.	1		1625	198	0.	1		2240	273	0.
1		0400	49	12397.	1		1015	124	2.	1		1630	199	0.	1		2245	274	0.
1		0405	50	13835.	1		1020	125	1.	1		1635	200	0.	1		2250	275	0.
1		0410	51	15380.	1		1025	126	1.	1		1640	201	0.	1		2255	276	0.
1		0415	52	17043.	1		1030	127	1.	1		1645	202	0.	1		2300	277	0.
1		0420	53	18830.	1		1035	128	0.	1		1650	203	0.	1		2305	278	0.
1		0425	54	20707.	1		1040	129	0.	1		1655	204	0.	1		2310	279	0.
1		0430	55	22655.	1		1045	130	0.	1		1700	205	0.	1		2315	280	0.
1		0435	56	24607.	1		1050	131	0.	1		1705	206	0.	1		2320	281	0.
1		0440	57	26400.	1		1055	132	0.	1		1710	207	0.	1		2325	282	0.
1		0445	58	27863.	1		1100	133	0.	1		1715	208	0.	1		2330	283	0.
1		0450	59	28931.	1		1105	134	0.	1		1720	209	0.	1		2335	284	0.
1		0455	60	29539.	1		1110	135	0.	1		1725	210	0.	1		2340	285	0.
1		0500	61	29575.	1		1115	136	0.	1		1730	211	0.	1		2345	286	0.
1		0505	62	29079.	1		1120	137	0.	1		1735	212	0.	1		2350	287	0.
1		0510	63	28181.	1		1125	138	0.	1		1740	213	0.	1		2355	288	0.
1		0515	64	26995.	1		1130	139	0.	1		1745	214	0.	2		0000	289	0.
1		0520	65	25624.	1		1135	140	0.	1		1750	215	0.	2		0005	290	0.
1		0525	66	24170.	1		1140	141	0.	1		1755	216	0.	2		0010	291	0.
1		0530	67	22725.	1		1145	142	0.	1		1800	217	0.	2		0015	292	0.
1		0535	68	21348.	1		1150	143	0.	1		1805	218	0.	2		0020	293	0.
1		0540	69	20085.	1		1155	144	0.	1		1810	219	0.	2		0025	294	0.
1		0545	70	18959.	1		1200	145	0.	1		1815	220	0.	2		0030	295	0.
1		0550	71	17968.	1		1205	146	0.	1		1820	221	0.	2		0035	296	0.
1		0555	72	17073.	1		1210	147	0.	1		1825	222	0.	2		0040	297	0.
1		0600	73	16224.	1		1215	148	0.	1		1830	223	0.	2		0045	298	0.
1		0605	74	15376.	1		1220	149	0.	1		1835	224	0.	2		0050	299	0.
1		0610	75	14497.	1		1225	150	0.	1		1840	225	0.	2		0055	300	0.

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)				
		(CFS)			
29575.	5.00	11156.	2824.	2720.	2720.
		(INCHES) 1.895	1.919	1.919	1.919
		(AC-FT) 5532.	5601.	5601.	5601.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .86

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	13409.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	12434.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	11415.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	10373.	1		1245	154	0.	1		1900	229	0.
1		0020	5	2.	1		0635	80	9333.	1		1250	155	0.	1		1905	230	0.
1		0025	6	15.	1		0640	81	8323.	1		1255	156	0.	1		1910	231	0.
1		0030	7	41.	1		0645	82	7367.	1		1300	157	0.	1		1915	232	0.
1		0035	8	66.	1		0650	83	6484.	1		1305	158	0.	1		1920	233	0.
1		0040	9	77.	1		0655	84	5682.	1		1310	159	0.	1		1925	234	0.
1		0045	10	80.	1		0700	85	4962.	1		1315	160	0.	1		1930	235	0.
1		0050	11	81.	1		0705	86	4321.	1		1320	161	0.	1		1935	236	0.
1		0055	12	89.	1		0710	87	3754.	1		1325	162	0.	1		1940	237	0.
1		0100	13	104.	1		0715	88	3253.	1		1330	163	0.	1		1945	238	0.
1		0105	14	127.	1		0720	89	2810.	1		1335	164	0.	1		1950	239	0.
1		0110	15	161.	1		0725	90	2419.	1		1340	165	0.	1		1955	240	0.
1		0115	16	206.	1		0730	91	2073.	1		1345	166	0.	1		2000	241	0.
1		0120	17	258.	1		0735	92	1768.	1		1350	167	0.	1		2005	242	0.
1		0125	18	322.	1		0740	93	1500.	1		1355	168	0.	1		2010	243	0.
1		0130	19	406.	1		0745	94	1267.	1		1400	169	0.	1		2015	244	0.
1		0135	20	509.	1		0750	95	1064.	1		1405	170	0.	1		2020	245	0.
1		0140	21	621.	1		0755	96	889.	1		1410	171	0.	1		2025	246	0.
1		0145	22	734.	1		0800	97	741.	1		1415	172	0.	1		2030	247	0.
1		0150	23	842.	1		0805	98	615.	1		1420	173	0.	1		2035	248	0.
1		0155	24	946.	1		0810	99	509.	1		1425	174	0.	1		2040	249	0.
1		0200	25	1055.	1		0815	100	420.	1		1430	175	0.	1		2045	250	0.
1		0205	26	1174.	1		0820	101	347.	1		1435	176	0.	1		2050	251	0.
1		0210	27	1299.	1		0825	102	285.	1		1440	177	0.	1		2055	252	0.
1		0215	28	1435.	1		0830	103	235.	1		1445	178	0.	1		2100	253	0.
1		0220	29	1582.	1		0835	104	193.	1		1450	179	0.	1		2105	254	0.
1		0225	30	1736.	1		0840	105	159.	1		1455	180	0.	1		2110	255	0.
1		0230	31	1891.	1		0845	106	130.	1		1500	181	0.	1		2115	256	0.
1		0235	32	2048.	1		0850	107	107.	1		1505	182	0.	1		2120	257	0.
1		0240	33	2220.	1		0855	108	88.	1		1510	183	0.	1		2125	258	0.
1		0245	34	2421.	1		0900	109	72.	1		1515	184	0.	1		2130	259	0.
1		0250	35	2641.	1		0905	110	58.	1		1520	185	0.	1		2135	260	0.
1		0255	36	2860.	1		0910	111	47.	1		1525	186	0.	1		2140	261	0.
1		0300	37	3084.	1		0915	112	37.	1		1530	187	0.	1		2145	262	0.
1		0305	38	3343.	1		0920	113	30.	1		1535	188	0.	1		2150	263	0.
1		0310	39	3667.	1		0925	114	23.	1		1540	189	0.	1		2155	264	0.
1		0315	40	4101.	1		0930	115	18.	1		1545	190	0.	1		2200	265	0.
1		0320	41	4681.	1		0935	116	14.	1		1550	191	0.	1		2205	266	0.
1		0325	42	5471.	1		0940	117	11.	1		1555	192	0.	1		2210	267	0.
1		0330	43	6516.	1		0945	118	8.	1		1600	193	0.	1		2215	268	0.
1		0335	44	7617.	1		0950	119	6.	1		1605	194	0.	1		2220	269	0.
1		0340	45	8373.	1		0955	120	5.	1		1610	195	0.	1		2225	270	0.
1		0345	46	8983.	1		1000	121	4.	1		1615	196	0.	1		2230	271	0.
1		0350	47	9814.	1		1005	122	3.	1		1620	197	0.	1		2235	272	0.
1		0355	48	10920.	1		1010	123	2.	1		1625	198	0.	1		2240	273	0.
1		0400	49	12212.	1		1015	124	2.	1		1630	199	0.	1		2245	274	0.
1		0405	50	13630.	1		1020	125	1.	1		1635	200	0.	1		2250	275	0.
1		0410	51	15157.	1		1025	126	1.	1		1640	201	0.	1		2255	276	0.
1		0415	52	16796.	1		1030	127	1.	1		1645	202	0.	1		2300	277	0.
1		0420	53	18562.	1		1035	128	0.	1		1650	203	0.	1		2305	278	0.
1		0425	54	20419.	1		1040	129	0.	1		1655	204	0.	1		2310	279	0.
1		0430	55	22341.	1		1045	130	0.	1		1700	205	0.	1		2315	280	0.
1		0435	56	24269.	1		1050	131	0.	1		1705	206	0.	1		2320	281	0.
1		0440	57	26045.	1		1055	132	0.	1		1710	207	0.	1		2325	282	0.
1		0445	58	27491.	1		1100	133	0.	1		1715	208	0.	1		2330	283	0.
1		0450	59	28549.	1		1105	134	0.	1		1720	209	0.	1		2335	284	0.
1		0455	60	29155.	1		1110	135	0.	1		1725	210	0.	1		2340	285	0.
1		0500	61	29194.	1		1115	136	0.	1		1730	211	0.	1		2345	286	0.
1		0505	62	28706.	1		1120	137	0.	1		1735	212	0.	1		2350	287	0.
1		0510	63	27823.	1		1125	138	0.	1		1740	213	0.	1		2355	288	0.
1		0515	64	26655.	1		1130	139	0.	1		1745	214	0.	2		0000	289	0.
1		0520	65	25305.	1		1135	140	0.	1		1750	215	0.	2		0005	290	0.
1		0525	66	23873.	1		1140	141	0.	1		1755	216	0.	2		0010	291	0.
1		0530	67	22446.	1		1145	142	0.	1		1800	217	0.	2		0015	292	0.

DA	HRMN	ORD	FLOW	*	DA	HRMN	ORD	FLOW	*	DA	HRMN	ORD	FLOW	*	DA	HRMN	ORD	FLOW
1	0535	68	21089.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	19843.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	18732.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	17755.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	16872.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	16034.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	15197.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	14329.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
+ 29194.	5.00	(CFS)	11005.	2785.	2683.	2683.
		(INCHES)	1.869	1.893	1.893	1.893
		(AC-FT)	5457.	5525.	5525.	5525.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .85

DA MON	HRMN	ORD	FLOW	*	DA MON	HRMN	ORD	FLOW	*	DA MON	HRMN	ORD	FLOW	*	DA MON	HRMN	ORD	FLOW
1	0000	1	0.	*	1	0615	76	13272.	*	1	1230	151	0.	*	1	1845	226	0.
1	0005	2	0.	*	1	0620	77	12308.	*	1	1235	152	0.	*	1	1850	227	0.
1	0010	3	0.	*	1	0625	78	11300.	*	1	1240	153	0.	*	1	1855	228	0.
1	0015	4	0.	*	1	0630	79	10268.	*	1	1245	154	0.	*	1	1900	229	0.
1	0020	5	2.	*	1	0635	80	9239.	*	1	1250	155	0.	*	1	1905	230	0.
1	0025	6	14.	*	1	0640	81	8239.	*	1	1255	156	0.	*	1	1910	231	0.
1	0030	7	40.	*	1	0645	82	7294.	*	1	1300	157	0.	*	1	1915	232	0.
1	0035	8	63.	*	1	0650	83	6419.	*	1	1305	158	0.	*	1	1920	233	0.
1	0040	9	75.	*	1	0655	84	5626.	*	1	1310	159	0.	*	1	1925	234	0.
1	0045	10	77.	*	1	0700	85	4913.	*	1	1315	160	0.	*	1	1930	235	0.
1	0050	11	78.	*	1	0705	86	4278.	*	1	1320	161	0.	*	1	1935	236	0.
1	0055	12	85.	*	1	0710	87	3717.	*	1	1325	162	0.	*	1	1940	237	0.
1	0100	13	100.	*	1	0715	88	3221.	*	1	1330	163	0.	*	1	1945	238	0.
1	0105	14	122.	*	1	0720	89	2783.	*	1	1335	164	0.	*	1	1950	239	0.
1	0110	15	154.	*	1	0725	90	2395.	*	1	1340	165	0.	*	1	1955	240	0.
1	0115	16	198.	*	1	0730	91	2053.	*	1	1345	166	0.	*	1	2000	241	0.
1	0120	17	248.	*	1	0735	92	1751.	*	1	1350	167	0.	*	1	2005	242	0.
1	0125	18	310.	*	1	0740	93	1486.	*	1	1355	168	0.	*	1	2010	243	0.
1	0130	19	390.	*	1	0745	94	1254.	*	1	1400	169	0.	*	1	2015	244	0.
1	0135	20	491.	*	1	0750	95	1053.	*	1	1405	170	0.	*	1	2020	245	0.
1	0140	21	599.	*	1	0755	96	881.	*	1	1410	171	0.	*	1	2025	246	0.
1	0145	22	709.	*	1	0800	97	733.	*	1	1415	172	0.	*	1	2030	247	0.
1	0150	23	815.	*	1	0805	98	609.	*	1	1420	173	0.	*	1	2035	248	0.
1	0155	24	916.	*	1	0810	99	504.	*	1	1425	174	0.	*	1	2040	249	0.
1	0200	25	1023.	*	1	0815	100	416.	*	1	1430	175	0.	*	1	2045	250	0.
1	0205	26	1139.	*	1	0820	101	343.	*	1	1435	176	0.	*	1	2050	251	0.
1	0210	27	1263.	*	1	0825	102	283.	*	1	1440	177	0.	*	1	2055	252	0.
1	0215	28	1396.	*	1	0830	103	233.	*	1	1445	178	0.	*	1	2100	253	0.
1	0220	29	1542.	*	1	0835	104	191.	*	1	1450	179	0.	*	1	2105	254	0.
1	0225	30	1693.	*	1	0840	105	157.	*	1	1455	180	0.	*	1	2110	255	0.
1	0230	31	1847.	*	1	0845	106	129.	*	1	1500	181	0.	*	1	2115	256	0.
1	0235	32	2002.	*	1	0850	107	106.	*	1	1505	182	0.	*	1	2120	257	0.
1	0240	33	2171.	*	1	0855	108	87.	*	1	1510	183	0.	*	1	2125	258	0.
1	0245	34	2370.	*	1	0900	109	71.	*	1	1515	184	0.	*	1	2130	259	0.
1	0250	35	2588.	*	1	0905	110	58.	*	1	1520	185	0.	*	1	2135	260	0.
1	0255	36	2804.	*	1	0910	111	46.	*	1	1525	186	0.	*	1	2140	261	0.
1	0300	37	3024.	*	1	0915	112	37.	*	1	1530	187	0.	*	1	2145	262	0.
1	0305	38	3280.	*	1	0920	113	29.	*	1	1535	188	0.	*	1	2150	263	0.
1	0310	39	3602.	*	1	0925	114	23.	*	1	1540	189	0.	*	1	2155	264	0.
1	0315	40	4027.	*	1	0930	115	18.	*	1	1545	190	0.	*	1	2200	265	0.
1	0320	41	4600.	*	1	0935	116	14.	*	1	1550	191	0.	*	1	2205	266	0.
1	0325	42	5379.	*	1	0940	117	10.	*	1	1555	192	0.	*	1	2210	267	0.
1	0330	43	6415.	*	1	0945	118	8.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	7505.	*	1	0950	119	6.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	8262.	*	1	0955	120	5.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	8861.	*	1	1000	121	4.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	9680.	*	1	1005	122	3.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	10773.	*	1	1010	123	2.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	12047.	*	1	1015	124	2.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	13450.	*	1	1020	125	1.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	14958.	*	1	1025	126	1.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	16584.	*	1	1030	127	1.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	18330.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	20163.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	22070.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	23979.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	25734.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	27169.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	28219.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	28819.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	28860.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	28382.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.

DA	HRMN	ORD	FLOW	*	DA	HRMN	ORD	FLOW	*	DA	HRMN	ORD	FLOW	*	DA	HRMN	ORD	FLOW
1	0510	63	27511.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	26360.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	25026.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	23611.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	22203.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	20862.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	19631.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	18533.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	17568.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	16696.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	15867.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	15040.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	14182.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
+ 28860.	5.00	(CFS)	10873.	2752.	2650.	2650.
		(INCHES)	1.847	1.870	1.870	1.870
		(AC-FT)	5392.	5458.	5458.	5458.

CUMULATIVE AREA = 54.73 SQ MI

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              *************
              *           *
227 KK        *    RRDB   *
              *           *
              *************

240 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          1  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

              HYDROGRAPH ROUTING DATA

241 RS          STORAGE ROUTING
                      NSTPS          1  NUMBER OF SUBREACHES
                       ITYP       STOR  TYPE OF INITIAL CONDITION
                     RSVRIC      -1.00  INITIAL CONDITION
                          X        .00 WORKING R AND D COEFFICIENT

242 SV            STORAGE        .0      9.0    107.0    231.0    372.0    529.0    705.0    903.0   1125.0   1376.0
                             1659.0   1974.0   2007.0   2115.0   2331.0   2690.0   2933.0

244 SQ          DISCHARGE        0.      10.      57.      80.      99.     114.     128.     140.     151.     162.
                               171.     181.     182.    8654.   33270.  110918.  163477.

246 SE          ELEVATION   3161.00  3162.00  3167.00  3172.00  3177.00  3182.00  3187.00  3192.00  3197.00  3202.00
                            3207.00  3212.00  3212.50  3214.00  3217.00  3222.00  3225.00

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HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .88

DA MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000	1	0.	.0	3161.0	*	1	0820	101	542.	2011.6	3212.6	*	1	1640	201	178.	1893.5	3210.7
1	0005	2	0.	.0	3161.0	*	1	0825	102	449.	2010.4	3212.5	*	1	1645	202	178.	1892.3	3210.7
1	0010	3	0.	.0	3161.0	*	1	0830	103	372.	2009.4	3212.5	*	1	1650	203	178.	1891.1	3210.7
1	0015	4	0.	.0	3161.0	*	1	0835	104	307.	2008.6	3212.5	*	1	1655	204	178.	1889.8	3210.7
1	0020	5	0.	.0	3161.0	*	1	0840	105	253.	2007.9	3212.5	*	1	1700	205	178.	1888.6	3210.6
1	0025	6	0.	.1	3161.0	*	1	0845	106	209.	2007.3	3212.5	*	1	1705	206	178.	1887.4	3210.6
1	0030	7	0.	.3	3161.0	*	1	0850	107	182.	2006.8	3212.5	*	1	1710	207	178.	1886.2	3210.6
1	0035	8	1.	.7	3161.1	*	1	0855	108	182.	2006.3	3212.5	*	1	1715	208	178.	1884.9	3210.6
1	0040	9	1.	1.2	3161.1	*	1	0900	109	182.	2005.6	3212.5	*	1	1720	209	178.	1883.7	3210.6
1	0045	10	2.	1.8	3161.2	*	1	0905	110	182.	2004.8	3212.5	*	1	1725	210	178.	1882.5	3210.5
1	0050	11	3.	2.4	3161.3	*	1	0910	111	182.	2003.9	3212.5	*	1	1730	211	178.	1881.3	3210.5
1	0055	12	3.	3.0	3161.3	*	1	0915	112	182.	2002.9	3212.4	*	1	1735	212	178.	1880.0	3210.5
1	0100	13	4.	3.7	3161.4	*	1	0920	113	182.	2001.9	3212.4	*	1	1740	213	178.	1878.8	3210.5
1	0105	14	5.	4.6	3161.5	*	1	0925	114	182.	2000.9	3212.4	*	1	1745	214	178.	1877.6	3210.5
1	0110	15	6.	5.7	3161.6	*	1	0930	115	182.	1999.8	3212.4	*	1	1750	215	178.	1876.3	3210.4
1	0115	16	8.	7.0	3161.8	*	1	0935	116	182.	1998.6	3212.4	*	1	1755	216	178.	1875.1	3210.4
1	0120	17	10.	8.7	3162.0	*	1	0940	117	182.	1997.4	3212.4	*	1	1800	217	178.	1873.9	3210.4
1	0125	18	11.	10.9	3162.1	*	1	0945	118	182.	1996.3	3212.3	*	1	1805	218	178.	1872.7	3210.4
1	0130	19	12.	13.5	3162.2	*	1	0950	119	182.	1995.1	3212.3	*	1	1810	219	178.	1871.4	3210.4
1	0135	20	14.	16.9	3162.4	*	1	0955	120	182.	1993.8	3212.3	*	1	1815	220	178.	1870.2	3210.4
1	0140	21	16.	21.0	3162.6	*	1	1000	121	182.	1992.6	3212.3	*	1	1820	221	178.	1869.0	3210.3
1	0145	22	18.	26.0	3162.9	*	1	1005	122	182.	1991.4	3212.3	*	1	1825	222	178.	1867.8	3210.3
1	0150	23	21.	31.8	3163.2	*	1	1010	123	181.	1990.2	3212.2	*	1	1830	223	178.	1866.6	3210.3

1	0155	24	24.	38.3	3163.5	*	1	1015	124	181.	1988.9	3212.2	*	1	1835	224	178.	1865.3	3210.3
1	0200	25	28.	45.6	3163.9	*	1	1020	125	181.	1987.7	3212.2	*	1	1840	225	178.	1864.1	3210.3
1	0205	26	31.	53.6	3164.3	*	1	1025	126	181.	1986.4	3212.2	*	1	1845	226	177.	1862.9	3210.2
1	0210	27	36.	62.6	3164.7	*	1	1030	127	181.	1985.2	3212.2	*	1	1850	227	177.	1861.7	3210.2
1	0215	28	40.	72.4	3165.2	*	1	1035	128	181.	1984.0	3212.2	*	1	1855	228	177.	1860.4	3210.2
1	0220	29	46.	83.2	3165.8	*	1	1040	129	181.	1982.7	3212.1	*	1	1900	229	177.	1859.2	3210.2
1	0225	30	51.	95.0	3166.4	*	1	1045	130	181.	1981.5	3212.1	*	1	1905	230	177.	1858.0	3210.2
1	0230	31	57.	107.9	3167.0	*	1	1050	131	181.	1980.2	3212.1	*	1	1910	231	177.	1856.8	3210.1
1	0235	32	60.	121.9	3167.6	*	1	1055	132	181.	1979.0	3212.1	*	1	1915	232	177.	1855.6	3210.1
1	0240	33	63.	137.0	3168.2	*	1	1100	133	181.	1977.7	3212.1	*	1	1920	233	177.	1854.3	3210.1
1	0245	34	66.	153.5	3168.9	*	1	1105	134	181.	1976.5	3212.0	*	1	1925	234	177.	1853.1	3210.1
1	0250	35	69.	171.4	3169.6	*	1	1110	135	181.	1975.2	3212.0	*	1	1930	235	177.	1851.9	3210.1
1	0255	36	73.	190.8	3170.4	*	1	1115	136	181.	1974.0	3212.0	*	1	1935	236	177.	1850.7	3210.0
1	0300	37	76.	211.8	3171.2	*	1	1120	137	181.	1972.7	3212.0	*	1	1940	237	177.	1849.5	3210.0
1	0305	38	80.	234.5	3172.1	*	1	1125	138	181.	1971.5	3212.0	*	1	1945	238	177.	1848.2	3210.0
1	0310	39	84.	259.2	3173.0	*	1	1130	139	181.	1970.2	3211.9	*	1	1950	239	177.	1847.0	3210.0
1	0315	40	87.	286.6	3174.0	*	1	1135	140	181.	1969.0	3211.9	*	1	1955	240	177.	1845.8	3210.0
1	0320	41	92.	317.6	3175.1	*	1	1140	141	181.	1967.8	3211.9	*	1	2000	241	177.	1844.6	3209.9
1	0325	42	96.	353.4	3176.3	*	1	1145	142	181.	1966.5	3211.9	*	1	2005	242	177.	1843.4	3209.9
1	0330	43	101.	395.7	3177.8	*	1	1150	143	181.	1965.3	3211.9	*	1	2010	243	177.	1842.1	3209.9
1	0335	44	106.	445.6	3179.3	*	1	1155	144	181.	1964.0	3211.8	*	1	2015	244	177.	1840.9	3209.9
1	0340	45	111.	502.0	3181.1	*	1	1200	145	181.	1962.8	3211.8	*	1	2020	245	177.	1839.7	3209.9
1	0345	46	117.	563.2	3183.0	*	1	1205	146	181.	1961.5	3211.8	*	1	2025	246	177.	1838.5	3209.8
1	0350	47	122.	629.4	3184.9	*	1	1210	147	181.	1960.3	3211.8	*	1	2030	247	177.	1837.3	3209.8
1	0355	48	128.	702.5	3186.9	*	1	1215	148	181.	1959.0	3211.8	*	1	2035	248	177.	1836.1	3209.8
1	0400	49	133.	784.1	3189.0	*	1	1220	149	180.	1957.8	3211.7	*	1	2040	249	177.	1834.8	3209.8
1	0405	50	138.	875.2	3191.3	*	1	1225	150	180.	1956.6	3211.7	*	1	2045	250	177.	1833.6	3209.8
1	0410	51	144.	976.7	3193.7	*	1	1230	151	180.	1955.3	3211.7	*	1	2050	251	177.	1832.4	3209.8
1	0415	52	149.	1089.3	3196.2	*	1	1235	152	180.	1954.1	3211.7	*	1	2055	252	176.	1831.2	3209.7
1	0420	53	155.	1214.0	3198.8	*	1	1240	153	180.	1952.8	3211.7	*	1	2100	253	176.	1830.0	3209.7
1	0425	54	161.	1351.5	3201.5	*	1	1245	154	180.	1951.6	3211.6	*	1	2105	254	176.	1828.8	3209.7
1	0430	55	166.	1502.3	3204.2	*	1	1250	155	180.	1950.3	3211.6	*	1	2110	255	176.	1827.6	3209.7
1	0435	56	171.	1666.7	3207.1	*	1	1255	156	180.	1949.1	3211.6	*	1	2115	256	176.	1826.3	3209.7
1	0440	57	177.	1844.1	3209.9	*	1	1300	157	180.	1947.9	3211.6	*	1	2120	257	176.	1825.1	3209.6
1	0445	58	1777.	2027.3	3212.8	*	1	1305	158	180.	1946.6	3211.6	*	1	2125	258	176.	1823.9	3209.6
1	0450	59	14810.	2169.0	3214.8	*	1	1310	159	180.	1945.4	3211.5	*	1	2130	259	176.	1822.7	3209.6
1	0455	60	23211.	2242.7	3215.8	*	1	1315	160	180.	1944.1	3211.5	*	1	2135	260	176.	1821.5	3209.6
1	0500	61	27058.	2276.5	3216.2	*	1	1320	161	180.	1942.9	3211.5	*	1	2140	261	176.	1820.3	3209.6
1	0505	62	28602.	2290.0	3216.4	*	1	1325	162	180.	1941.7	3211.5	*	1	2145	262	176.	1819.1	3209.5
1	0510	63	28874.	2292.4	3216.5	*	1	1330	163	180.	1940.4	3211.5	*	1	2150	263	176.	1817.8	3209.5
1	0515	64	28394.	2288.2	3216.4	*	1	1335	164	180.	1939.2	3211.4	*	1	2155	264	176.	1816.6	3209.5
1	0520	65	27451.	2279.9	3216.3	*	1	1340	165	180.	1937.9	3211.4	*	1	2200	265	176.	1815.4	3209.5
1	0525	66	26230.	2269.2	3216.1	*	1	1345	166	180.	1936.7	3211.4	*	1	2205	266	176.	1814.2	3209.5
1	0530	67	24865.	2257.3	3216.0	*	1	1350	167	180.	1935.5	3211.4	*	1	2210	267	176.	1813.0	3209.4
1	0535	68	23461.	2244.9	3215.8	*	1	1355	168	180.	1934.2	3211.4	*	1	2215	268	176.	1811.8	3209.4
1	0540	69	22091.	2232.9	3215.6	*	1	1400	169	180.	1933.0	3211.3	*	1	2220	269	176.	1810.6	3209.4
1	0545	70	20808.	2221.7	3215.5	*	1	1405	170	180.	1931.8	3211.3	*	1	2225	270	176.	1809.4	3209.4
1	0550	71	19642.	2211.4	3215.3	*	1	1410	171	180.	1930.5	3211.3	*	1	2230	271	176.	1808.2	3209.4
1	0555	72	18593.	2202.2	3215.2	*	1	1415	172	180.	1929.3	3211.3	*	1	2235	272	176.	1806.9	3209.3
1	0600	73	17635.	2193.8	3215.1	*	1	1420	173	180.	1928.0	3211.3	*	1	2240	273	176.	1805.7	3209.3
1	0605	74	16731.	2185.9	3215.0	*	1	1425	174	180.	1926.8	3211.3	*	1	2245	274	176.	1804.5	3209.3
1	0610	75	15842.	2178.1	3214.9	*	1	1430	175	179.	1925.6	3211.2	*	1	2250	275	176.	1803.3	3209.3
1	0615	76	14935.	2170.1	3214.8	*	1	1435	176	179.	1924.3	3211.2	*	1	2255	276	176.	1802.1	3209.3
1	0620	77	13991.	2161.8	3214.7	*	1	1440	177	179.	1923.1	3211.2	*	1	2300	277	176.	1800.9	3209.3
1	0625	78	13002.	2153.2	3214.5	*	1	1445	178	179.	1921.9	3211.2	*	1	2305	278	175.	1799.7	3209.2
1	0630	79	11974.	2144.1	3214.4	*	1	1450	179	179.	1920.6	3211.2	*	1	2310	279	175.	1798.5	3209.2
1	0635	80	10922.	2134.9	3214.3	*	1	1455	180	179.	1919.4	3211.1	*	1	2315	280	175.	1797.3	3209.2
1	0640	81	9870.	2125.7	3214.1	*	1	1500	181	179.	1918.2	3211.1	*	1	2320	281	175.	1796.1	3209.2
1	0645	82	8843.	2116.7	3214.0	*	1	1505	182	179.	1916.9	3211.1	*	1	2325	282	175.	1794.9	3209.2
1	0650	83	8057.	2107.4	3213.9	*	1	1510	183	179.	1915.7	3211.1	*	1	2330	283	175.	1793.6	3209.1
1	0655	84	7284.	2097.5	3213.8	*	1	1515	184	179.	1914.5	3211.1	*	1	2335	284	175.	1792.4	3209.1
1	0700	85	6507.	2087.6	3213.6	*	1	1520	185	179.	1913.2	3211.0	*	1	2340	285	175.	1791.2	3209.1
1	0705	86	5764.	2078.2	3213.5	*	1	1525	186	179.	1912.0	3211.0	*	1	2345	286	175.	1790.0	3209.1
1	0710	87	5074.	2069.4	3213.4	*	1	1530	187	179.	1910.8	3211.0	*	1	2350	287	175.	1788.8	3209.1
1	0715	88	4444.	2061.3	3213.3	*	1	1535	188	179.	1909.5	3211.0	*	1	2355	288	175.	1787.6	3209.0
1	0720	89	3876.	2054.1	3213.2	*	1	1540	189	179.	1908.3	3211.0	*	2	0000	289	175.	1786.4	3209.0
1	0725	90	3368.	2047.6	3213.1	*	1	1545	190	179.	1907.1	3210.9	*	2	0005	290	175.	1785.2	3209.0
1	0730	91	2915.	2041.8	3213.0	*	1	1550	191	179.	1905.8	3210.9	*	2	0010	291	175.	1784.0	3209.0
1	0735	92	2513.	2036.7	3212.9	*	1	1555	192	179.	1904.6	3210.9	*	2	0015	292	175.	1782.8	3209.0
1	0740	93	2157.	2032.2	3212.8	*	1	1600	193	179.	1903.4	3210.9	*	2	0020	293	175.	1781.6	3208.9
1	0745	94	1843.	2028.2	3212.8	*	1	1605	194	179.	1902.1	3210.9	*	2	0025	294	175.	1780.4	3208.9
1	0750	95	1567.	2024.7	3212.7	*	1	1610	195	179.	1900.9	3210.8	*	2	0030	295	175.	1779.2	3208.9
1	0755	96	1326.	2021.6	3212.7	*	1	1615	196	179.	1899.7	3210.8	*	2	0035	296	175.	1778.0	3208.9
1	0800	97	1118.	2018.9	3212.7	*	1	1620	197	179.	1898.4	3210.8	*	2	0040	297	175.	1776.8	3208.9
1	0805	98	938.	2016.6	3212.6	*	1	1625	198	179.	1897.2	3210.8	*	2	0045	298	175.	1775.6	3208.9
1	0810	99	784.	2014.7	3212.6	*	1	1630	199	179.	1896.0	3210.8	*	2	0050	299	175.	1774.4	3208.8
1	0815	100	653.	2013.0	3212.6	*	1	1635	200	178.	1894.8	3210.7	*	2	0055	300	175.	1773.2	3208.8
						*							*						

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
	(CFS)				
+ 28874.	5.17	7446.	1979.	1906.	1906.
	(INCHES)	1.265	1.344	1.344	1.344
	(AC-FT)	3692.	3924.	3924.	3924.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
2292.	5.17	2081.	1693.	1631.	1631.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3216.46	5.17	3213.53	3205.60	3203.97	3203.97

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .87

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE		DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE		DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0630	79	11804.	2142.6	3214.4	*	1	1450	179	179.	1920.5	3211.2	*	1	2310	279	175.	1798.4	3209.2
1	0635	80	10768.	2133.6	3214.3	*	1	1455	180	179.	1919.3	3211.1	*	1	2315	280	175.	1797.2	3209.2
1	0640	81	9732.	2124.5	3214.1	*	1	1500	181	179.	1918.1	3211.1	*	1	2320	281	175.	1796.0	3209.2
1	0645	82	8719.	2115.6	3214.0	*	1	1505	182	179.	1916.8	3211.1	*	1	2325	282	175.	1794.8	3209.2
1	0650	83	7974.	2106.3	3213.9	*	1	1510	183	179.	1915.6	3211.1	*	1	2330	283	175.	1793.6	3209.1
1	0655	84	7199.	2096.5	3213.7	*	1	1515	184	179.	1914.4	3211.1	*	1	2335	284	175.	1792.4	3209.1
1	0700	85	6427.	2086.6	3213.6	*	1	1520	185	179.	1913.1	3211.0	*	1	2340	285	175.	1791.2	3209.1
1	0705	86	5690.	2077.2	3213.5	*	1	1525	186	179.	1911.9	3211.0	*	1	2345	286	175.	1789.9	3209.1
1	0710	87	5007.	2068.5	3213.4	*	1	1530	187	179.	1910.7	3211.0	*	1	2350	287	175.	1788.7	3209.1
1	0715	88	4384.	2060.6	3213.2	*	1	1535	188	179.	1909.4	3211.0	*	1	2355	288	175.	1787.5	3209.0
1	0720	89	3824.	2053.4	3213.1	*	1	1540	189	179.	1908.2	3211.0	*	2	0000	289	175.	1786.3	3209.0
1	0725	90	3322.	2047.0	3213.1	*	1	1545	190	179.	1907.0	3210.9	*	2	0005	290	175.	1785.1	3209.0
1	0730	91	2875.	2041.3	3213.0	*	1	1550	191	179.	1905.7	3210.9	*	2	0010	291	175.	1783.9	3209.0
1	0735	92	2478.	2036.3	3212.9	*	1	1555	192	179.	1904.5	3210.9	*	2	0015	292	175.	1782.7	3209.0
1	0740	93	2127.	2031.8	3212.8	*	1	1600	193	179.	1903.3	3210.9	*	2	0020	293	175.	1781.5	3208.9
1	0745	94	1818.	2027.8	3212.8	*	1	1605	194	179.	1902.1	3210.9	*	2	0025	294	175.	1780.3	3208.9
1	0750	95	1546.	2024.4	3212.7	*	1	1610	195	179.	1900.8	3210.8	*	2	0030	295	175.	1779.1	3208.9
1	0755	96	1308.	2021.4	3212.7	*	1	1615	196	179.	1899.6	3210.8	*	2	0035	296	175.	1777.9	3208.9
1	0800	97	1102.	2018.7	3212.7	*	1	1620	197	179.	1898.4	3210.8	*	2	0040	297	175.	1776.7	3208.9
1	0805	98	925.	2016.5	3212.6	*	1	1625	198	179.	1897.1	3210.8	*	2	0045	298	175.	1775.5	3208.8
1	0810	99	773.	2014.5	3212.6	*	1	1630	199	179.	1895.9	3210.8	*	2	0050	299	175.	1774.3	3208.8
1	0815	100	644.	2012.9	3212.6	*	1	1635	200	178.	1894.7	3210.7	*	2	0055	300	175.	1773.1	3208.8
						*							*									

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 28329.	5.17	7253.	1930.	1859.	1859.
		(INCHES) 1.232	1.311	1.311	1.311
		(AC-FT) 3596.	3828.	3828.	3828.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
2288.	5.17	2080.	1691.	1629.	1629.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3216.40	5.17	3213.50	3205.55	3203.92	3203.92

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .86

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE		DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE		DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000	1	0.	.0	3161.0	*	1	0820	101	529.	2011.4	3212.6	*	1	1640	201	178.	1893.4	3210.7
1	0005	2	0.	.0	3161.0	*	1	0825	102	438.	2010.3	3212.5	*	1	1645	202	178.	1892.1	3210.7
1	0010	3	0.	.0	3161.0	*	1	0830	103	363.	2009.3	3212.5	*	1	1650	203	178.	1890.9	3210.7
1	0015	4	0.	.0	3161.0	*	1	0835	104	299.	2008.5	3212.5	*	1	1655	204	178.	1889.7	3210.7
1	0020	5	0.	.0	3161.0	*	1	0840	105	247.	2007.8	3212.5	*	1	1700	205	178.	1888.5	3210.6
1	0025	6	0.	.1	3161.0	*	1	0845	106	203.	2007.3	3212.5	*	1	1705	206	178.	1887.2	3210.6
1	0030	7	0.	.3	3161.0	*	1	0850	107	182.	2006.8	3212.5	*	1	1710	207	178.	1886.0	3210.6
1	0035	8	1.	.6	3161.1	*	1	0855	108	182.	2006.2	3212.5	*	1	1715	208	178.	1884.8	3210.6
1	0040	9	1.	1.1	3161.1	*	1	0900	109	182.	2005.5	3212.5	*	1	1720	209	178.	1883.6	3210.6
1	0045	10	2.	1.6	3161.2	*	1	0905	110	182.	2004.7	3212.5	*	1	1725	210	178.	1882.3	3210.5
1	0050	11	2.	2.2	3161.2	*	1	0910	111	182.	2003.8	3212.5	*	1	1730	211	178.	1881.1	3210.5
1	0055	12	3.	2.7	3161.3	*	1	0915	112	182.	2002.8	3212.4	*	1	1735	212	178.	1879.9	3210.5
1	0100	13	4.	3.4	3161.4	*	1	0920	113	182.	2001.8	3212.4	*	1	1740	213	178.	1878.7	3210.5
1	0105	14	5.	4.2	3161.5	*	1	0925	114	182.	2000.7	3212.4	*	1	1745	214	178.	1877.4	3210.5
1	0110	15	6.	5.1	3161.6	*	1	0930	115	182.	1999.6	3212.4	*	1	1750	215	178.	1876.2	3210.4
1	0115	16	7.	6.3	3161.7	*	1	0935	116	182.	1998.5	3212.4	*	1	1755	216	178.	1875.0	3210.4
1	0120	17	9.	7.9	3161.9	*	1	0940	117	182.	1997.3	3212.4	*	1	1800	217	178.	1873.8	3210.4
1	0125	18	10.	9.8	3162.0	*	1	0945	118	182.	1996.1	3212.3	*	1	1805	218	178.	1872.5	3210.4
1	0130	19	12.	12.2	3162.2	*	1	0950	119	182.	1994.9	3212.3	*	1	1810	219	178.	1871.3	3210.4
1	0135	20	13.	15.3	3162.3	*	1	0955	120	182.	1993.7	3212.3	*	1	1815	220	178.	1870.1	3210.4
1	0140	21	15.	19.1	3162.5	*	1	1000	121	182.	1992.5	3212.3	*	1	1820	221	178.	1868.9	3210.3
1	0145	22	17.	23.7	3162.7	*	1	1005	122	182.	1991.2	3212.3	*	1	1825	222	178.	1867.6	3210.3
1	0150	23	20.	29.0	3163.0	*	1	1010	123	181.	1990.0	3212.2	*	1	1830	223	178.	1866.4	3210.3
1	0155	24	22.	35.0	3163.3	*	1	1015	124	181.	1988.8	3212.2	*	1	1835	224	178.	1865.2	3210.3
1	0200	25	26.	41.7	3163.7	*	1	1020	125	181.	1987.5	3212.2	*	1	1840	225	178.	1864.0	3210.3
1	0205	26	29.	49.2	3164.1	*	1	1025	126	181.	1986.3	3212.2	*	1	1845	226	177.	1862.7	3210.2
1	0210	27	33.	57.5	3164.5	*	1	1030	127	181.	1985.1	3212.2	*	1	1850	227	177.	1861.5	3210.2
1	0215	28	38.	66.7	3164.9	*	1	1035	128	181.	1983.8	3212.1	*	1	1855	228	177.	1860.3	3210.2
1	0220	29	42.	76.8	3165.5	*	1	1040	129	181.	1982.6	3212.1	*	1	1900	229	177.	1859.1	3210.2
1	0225	30	48.	87.9	3166.0	*	1	1045	130	181.	1981.3	3212.1	*	1	1905	230	177.	1857.9	3210.2
1	0230	31	54.	100.0	3166.6	*	1	1050	131	181.	1980.1	3212.1	*	1	1910	231	177.	1856.6	3210.1
1	0235	32	58.	113.2	3167.3	*	1	1055	132	181.	1978.8	3212.1	*	1	1915	232	177.	1855.4	3210.1
1	0240	33	61.	127.5	3167.8	*	1	1100	133	181.	1977.6	3212.1	*	1	1920	233	177.	1854.2	3210.1
1	0245	34	64.	143.0	3168.5	*	1	1105	134	181.	1976.3	3212.0	*	1	1925	234	177.	1853.0	3210.1
1	0250	35	67.	160.0	3169.1	*	1	1110	135	181.	1975.1	3212.0	*	1	1930	235	177.	1851.8	3210.1
1	0255	36	70.	178.5	3169.9	*	1	1115	136	181.	1973.8	3212.0	*	1	1935	236	177.	1850.5	3210.0
1	0300	37	74.	198.5	3170.7	*	1	1120	137	181.	1972.6	3212.0	*	1	1940	237	177.	1849.3	3210.0
1	0305	38	78.	220.1	3171.6	*	1	1125	138	181.	1971.3	3212.0	*	1	1945	238	177.	1848.1	3210.0
1	0310	39	82.	243.7	3172.4	*	1	1130	139	181.	1970.1	3211.9	*	1	1950	239	177.	1846.9	3210.0
1	0315	40	85.	269.8	3173.4	*	1	1135	140	181.	1968.8	3211.9	*	1	1955	240	177.	1845.7	3210.0
1	0320	41	89.	299.5	3174.4	*	1	1140	141	181.	1967.6	3211.9	*	1	2000	241	177.	1844.4	3209.9
1	0325	42	94.	333.8	3175.6	*	1	1145	142	181.	1966.4	3211.9	*	1	2005	242	177.	1843.2	3209.9
1	0330	43	99.	374.4	3177.1	*	1	1150	143	181.	1965.1	3211.9	*	1	2010	243	177.	1842.0	3209.9
1	0335	44	104.	422.4	3178.6	*	1	1155	144	181.	1963.9	3211.8	*	1	2015	244	177.	1840.8	3209.9
1	0340	45	109.	476.7	3180.3	*	1	1200	145	181.	1962.6	3211.8	*	1	2020	245	177.	1839.6	3209.9
1	0345	46	115.	535.7	3182.2	*	1	1205	146	181.	1961.4	3211.8	*	1	2025	246	177.	1838.3	3209.8
1	0350	47	120.	599.6	3184.0	*	1	1210	147	181.	1960.1	3211.8	*	1	2030	247	177.	1837.1	3209.8
1	0355	48	125.	670.2	3186.0	*	1	1215	148	181.	1958.9	3211.8	*	1	2035	248	177.	1835.9	3209.8
1	0400	49	131.	748.9	3188.1	*	1	1220	149	180.	1957.6	3211.7	*	1	2040	249	177.	1834.7	3209.8
1	0405	50	136.	837.0	3190.3	*	1	1225	150	180.	1956.4	3211.7	*	1	2045	250	177.	1833.5	3209.8
1	0410	51	142.	935.2	3192.7	*	1	1230	151	180.	1955.2	3211.7	*	1	2050	251	177.	1832.3	3209.8
1	0415	52	147.	1044.2	3195.2	*	1	1235	152	180.	1953.9	3211.7	*	1	2055	252	176.	1831.1	3209.7
1	0420	53	153.	1164.9	3197.8	*	1	1240	153	180.	1952.7	3211.7	*	1	2100	253	176.	1829.8	3209.7
1	0425	54	159.	1298.1	3200.4	*	1	1245	154	180.	1951.4	3211.6	*	1	2105	254	176.	1828.6	3209.7
1	0430	55	164.	1444.2	3203.2	*	1	1250	155	180.	1950.2	3211.6	*	1	2110	255	176.	1827.4	3209.7
1	0435	56	169.	1603.6	3206.0	*	1	1255	156	180.	1949.0	3211.6	*	1	2115	256	176.	1826.2	3209.7
1	0440	57	175.	1775.7	3208.9	*	1	1300	157	180.	1947.7	3211.6	*	1	2120	257	176.	1825.0	3209.6
1	0445	58	181.	1958.8	3211.8	*	1	1305	158	180.	1946.5	3211.6	*	1	2125	258	176.	1823.8	3209.6
1	0450	59	9174.	2119.6	3214.1	*	1	1310	159	180.	1945.2	3211.5	*	1	2130	259	176.	1822.6	3209.6
1	0455	60	20266.	2216.9	3215.4	*	1	1315	160	180.	1944.0	3211.5	*	1	2135	260	176.	1821.3	3209.6
1	0500	61	25288.	2261.0	3216.0	*	1	1320	161	180.	1942.8	3211.5	*	1	2140	261	176.	1820.1	3209.6
1	0505	62	27352.	2279.1	3216.3	*	1	1325	162	180.	1941.5	3211.5	*	1	2145	262	176.	1818.9	3209.5
1	0510	63	27866.	2283.6	3216.3	*	1	1330	163	180.	1940.3	3211.5	*	1	2150	263	176.	1817.7	3209.5
1	0515	64	27513.	2280.5	3216.3	*	1	1335	164	180.	1939.0	3211.4	*	1	2155	264	176.	1816.5	3209.5
1	0520	65	26649.	2272.9	3216.2	*	1	1340	165	180.	1937.8	3211.4	*	1	2200	265	176.	1815.3	3209.5
1	0525	66	25488.	2262.7	3216.1	*	1	1345	166	180.	1936.6	3211.4	*	1	2205	266	176.	1814.1	3209.5
1	0530	67	24175.	2251.2	3215.9	*	1	1350	167	180.	1935.3	3211.4	*	1	2210	267	176.	1812.9	3209.4
1	0535	68	22818.	2239.3	3215.7	*	1	1355	168	180.	1934.1	3211.4	*	1	2215	268	176.	1811.6	3209.4
1	0540	69	21492.	2227.7	3215.6	*	1	1400	169	180.	1932.8	3211.3	*	1	2220	269	176.	1810.4	3209.4
1	0545	70	20249.	2216.7	3215.4	*	1	1405	170	180.	1931.6	3211.3	*	1	2225	270	176.	1809.2	3209.4
1	0550	71	19119.	2206.8	3215.3	*	1	1410	171	180.	1930.4	3211.3	*	1	2230	271	176.	1808.0	3209.4
1	0555	72	18101.	2197.9	3215.2	*	1	1415	172	180.	1929.1	3211.3	*	1	2235	272	176.	1806.8	3209.3
1	0600	73	17172.	2189.7	3215.0	*	1	1420	173	180.	1927.9	3211.3	*	1	2240	273	176.	1805.6	3209.3
1	0605	74	16294.	2182.0	3214.9	*	1	1425	174	179.	1926.7	3211.2	*	1	2245	274	176.	1804.4	3209.3
1	0610	75	15431.	2174.5	3214.8	*	1	1430	175	179.	1925.4	3211.2	*	1	2250	275	176.	1803.2	3209.3
1	0615	76	14551.	2166.7	3214.7	*	1	1435	176	179.	1924.2	3211.2	*	1	2255	276	176.	1802.0	3209.3
1	0620	77	13632.	2158.7	3214.6	*	1	1440	177	179.	1923.0	3211.2	*	1	2300	277	176.	1800.8	3209.3
1	0625	78	12670.	2150.2	3214.5	*	1	1445	178	179.	1921.7	3211.2	*	1	2305	278	175.	1799.5	3209.2
1	0630	79	11669.	2141.5	3214.4	*	1	1450	179	179.	1920.5	3211.2	*	1	2310	279	175.	1798.3	3209.2
1	0635	80	10645.	2132.5	3214.2	*	1	1455	180	179.	1919.2	3211.1	*	1	2315	280	175.	1797.1	3209.2
1	0640	81	9621.	2123.5	3214.1	*	1	1500	181	179.	1918.0	3211.1	*	1	2320	281	175.	1795.9	3209.2
1	0645	82	8628.	2114.7	3214.0	*	1	1505	182	179.	1916.8	3211.1	*	1	2325	282	175.	1794.7	3209.2
1	0650	83	7904.	2105.4	3213.9	*	1	1510	183	179.	1915.5	3211.1	*	1	2330	283	175.	1793.5	3209.1
1	0655	84	7130.	2095.6	3213.7	*	1	1515	184	179.	1914.3	3211.1	*	1	2335	284	175.	1792.3	3209.1
1	0700	85	6361.	2085.8	3213.6	*	1	1520	185	179.	1913.1	3211.0	*	1	2340	285	175.	1791.1	3209.1
1	0705	86	5630.	2076.4	3213.5	*	1	1525	186	179.	1911.8	3211.0	*	1	2345	286	175.	1789.9	3209.1
1	0710	87	4952.	2067.8	3213.3	*	1	1530	187	179.	1910.6	3211.0	*	1	2350	287	175.	1788.7	3209.1
1	0715	88	4336.	2060.0	3213.2	*	1	1535	188	179.	1909.4	3211.0	*	1	2355	288	175.	1787.5	3209.0
1	0720	89	3781.	2052.9	3213.1	*	1	1540	189	179.	1908.1	3211.0	*	2	0000	289	175.	1786.3	3209.0
1	0725	90	3285.	2046.6	3213.0	*	1	1545	190	179.	1906.9	3210.9	*	2	0005	290	175.	1785.1	3209.0
1	0730	91	2843.	2040.9	3213.0	*	1	1550	191	179.	1905.7	3210.9	*	2	0010	291	175.	1783.9	3209.0
1	0735	92	2451.	2035.9	3212.9	*	1	1555	192	179.	1904.4	3210.9	*	2	0015	292	175.	1782.7	3209.0
1	0740	93	2104.	2031.5	3212.8	*	1	1600	193	179.	1903.2	3210.9	*	2	0020	293	175.	1781.4	3208.9
1	0745	94	1797.	2027.6	3212.8	*	1	1605	194	179.	1902.0	3210.9	*	2	0025	294	175.	1780.2	3208.9
1	0750	95	1528.	2024.2	3212.7	*	1	1610	195	179.	1900.8	3210.8	*	2	0030	295	175.	1779.0	3208.9
1	0755	96	1294.	2021.2	3212.7	*	1	1615	196	179.	1899.5	3210.8	*	2	0035	296	175.	1777.8	3208.9
1	0800	97	1090.	2018.6	3212.7	*	1	1620	197	179.	1898.3	3210.8	*	2	0040	297	175.	1776.6	3208.9
1	0805	98	915.	2016.3	3212.6	*	1	1625	198	179.	1897.1	3210.8	*	2	0045	298	175.	1775.4	3208.8
1	0810	99	765.	2014.4	3212.6	*	1	1630	199	179.	1895.8	3210.8	*	2	0050	299	175.	1774.2	3208.8
1	0815	100	637.	2012.8	3212.6	*	1	1635	200	178.	1894.6	3210.7	*	2	0055	300	175.	1773.0	3208.8
						*							*									

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 27866.	5.17	7099.	1891.	1822.	1822.
		(INCHES) 1.206	1.285	1.285	1.285
		(AC-FT) 3520.	3751.	3752.	3752.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
2284.	5.17	2078.	1689.	1627.	1627.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3216.34	5.17	3213.48	3205.51	3203.88	3203.88

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .85

| | | |

				TIME	4.17	4.17	4.17	4.17
ROUTED TO								
+	R-RR12A	5.82	1	FLOW	3555.	3498.	3452.	3412.
				TIME	4.42	4.42	4.42	4.42
HYDROGRAPH AT								
+	104A	3.39	1	FLOW	1409.	1381.	1358.	1339.
				TIME	4.25	4.25	4.25	4.25
3 COMBINED AT								
+	C104A	47.87	1	FLOW	27476.	27035.	26684.	26376.
				TIME	5.00	5.00	5.00	5.00
HYDROGRAPH AT								
+	RD1	.43	1	FLOW	496.	487.	481.	475.
				TIME	3.58	3.58	3.58	3.58
ROUTED TO								
+	R-RD1	.43	1	FLOW	482.	479.	471.	463.
				TIME	3.67	3.67	3.67	3.67
HYDROGRAPH AT								
+	RD2	.47	1	FLOW	656.	647.	640.	633.
				TIME	3.58	3.58	3.58	3.58
2 COMBINED AT								
+	CRD2	.90	1	FLOW	1110.	1093.	1083.	1068.
				TIME	3.58	3.58	3.58	3.58
ROUTED TO								
+	RCRD2	.90	1	FLOW	1071.	1054.	1041.	1035.
				TIME	3.67	3.67	3.67	3.67
HYDROGRAPH AT								
+	RD3	.33	1	FLOW	434.	428.	423.	418.
				TIME	3.58	3.58	3.58	3.58
2 COMBINED AT								
+	CRD3	1.23	1	FLOW	1481.	1451.	1437.	1420.
				TIME	3.58	3.58	3.58	3.58
HYDROGRAPH AT								
+	RR14A	4.60	1	FLOW	3136.	3087.	3047.	3012.
				TIME	4.17	4.17	4.17	4.17
ROUTED TO								
+	R-RR14A	4.60	1	FLOW	3127.	3076.	3036.	3002.
				TIME	4.17	4.17	4.17	4.17
HYDROGRAPH AT								
+	RD4	.40	1	FLOW	452.	444.	438.	433.
				TIME	3.58	3.58	3.58	3.58
2 COMBINED AT								
+	CRD4	5.00	1	FLOW	3222.	3170.	3129.	3093.
				TIME	4.17	4.17	4.17	4.17
ROUTED TO								
+	RCRD4	5.00	1	FLOW	3214.	3162.	3121.	3085.
				TIME	4.17	4.17	4.17	4.17
HYDROGRAPH AT								
+	RD5	.37	1	FLOW	435.	428.	422.	417.
				TIME	3.58	3.58	3.58	3.58
2 COMBINED AT								
+	CRD5	5.37	1	FLOW	3296.	3243.	3200.	3163.
				TIME	4.17	4.17	4.17	4.17
ROUTED TO								
+	RCRD5	5.37	1	FLOW	3288.	3233.	3193.	3154.
				TIME	4.17	4.17	4.17	4.17
HYDROGRAPH AT								
+	RD6	.25	1	FLOW	330.	325.	321.	318.
				TIME	3.58	3.58	3.58	3.58
2 COMBINED AT								
+	CRD6	5.62	1	FLOW	3346.	3290.	3250.	3210.
				TIME	4.17	4.17	4.17	4.17
3 COMBINED AT								
+	INRR	54.73	1	FLOW	30052.	29575.	29194.	28860.
				TIME	5.00	5.00	5.00	5.00
ROUTED TO								
+	RRDB	54.73	1	FLOW	28874.	28329.	27866.	27441.
				TIME	5.17	5.17	5.17	5.17

** PEAK STAGES IN FEET **

1	STAGE	3216.46	3216.40	3216.34	3216.29
	TIME	5.17	5.17	5.17	5.17

DIVERSION TO								
+	*D-RROUT	54.73	1	FLOW	28692.	28147.	27684.	27259.
				TIME	5.17	5.17	5.17	5.17
HYDROGRAPH AT								
+	*DOUTRR	54.73	1	FLOW	182.	182.	182.	182.
				TIME	5.00	4.83	5.42	4.83
ROUTED TO								
+	ROUTRR	54.73	1	FLOW	182.	182.	182.	182.
				TIME	4.92	4.92	4.92	4.92
HYDROGRAPH AT								
+	R3A	.19	1	FLOW	203.	199.	196.	194.
				TIME	3.50	3.50	3.50	3.50
2 COMBINED AT								
+	CR3A	54.92	1	FLOW	300.	295.	292.	288.
				TIME	3.58	3.58	3.58	3.58
ROUTED TO								
+	RCR3A	54.92	1	FLOW	300.	295.	292.	288.
				TIME	3.67	3.67	3.67	3.67

1

*** NORMAL END OF HEC-1 ***

B.3.14 100-year_FLAM5A

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1****************************************

 *                                      *
 *   FLOOD HYDROGRAPH PACKAGE  (HEC-1)  *
 *              JUN   1998              *
 *            VERSION 4.1               *
 *                                      *
 *  RUN DATE   20MAY20  TIME  09:45:15  *
 *                                      *
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*                                    *
*   U.S. ARMY CORPS OF ENGINEERS     *
*   HYDROLOGIC ENGINEERING CENTER    *
*        609 SECOND STREET           *
*      DAVIS, CALIFORNIA 95616       *
*          (916) 756-1104            *
*                                    *
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X     X  XXXXXXX   XXXXX           X
X     X  X        X     X         XX
X     X  X        X               X
XXXXXXX  XXXX     X        XXXXX  X
X     X  X        X               X
X     X  X        X     X         X
X     X  XXXXXXX   XXXXX          XXX
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THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL   LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM


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          LINE      ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

                    *DIAGRAM
 *** FREE ***
               1    ID   RED ROCK TRAIL TO FY19-87
               2    ID   US FEDERAL HIGHWAY ADMINISTRATION
               3    ID   PN=WXXY4000
               4    ID
               5    ID   HEC-1 MODEL TAKEN FROM CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT
               6    ID   2018 MASTER PLAN UPDATE
               7    ID   FLAMINGO / TROPICANA WASHES WATERSHED
               8    ID   RECOMMENDED DRAINAGE SYSTEM WITH ULTIMATE DEVELOPMENT
               9    ID   INPUT FILE = FLAM5A.DAT
              10    ID   INPUT FILE DATE = DECEMBER 2019
              11    ID   PRECIPITATION VALUES TAKEN FROM NOAA ATLAS 2 &
              12    ID   ADJUSTED PER CCRFCD HYDRAULIC CRITERIA & DRAINAGE DESIGN MANUAL TABLE 501
              13    ID   DESIGN STORM = 100-YEAR, 6-HOUR STORM
              14    ID   STORM DISTRIBUTION = SDN5
              15    ID   STORM CENTERING = SERIES A: REGIONAL DETENTION BASIN FLOWS NOT DIVERTED OUT
              16    ID   MODELED BY JACOBS (DAVE BERGH, PE)
              17    ID
              18    ID   JR CARDS CONTAIN DARFS BASED ON THE FOLLOWING VALUES:
              19    ID
              20    ID         AREA    DARF
              21    ID         SQ.MI.
              22    ID                 SDN 3   SDN 4   SDN 5
              23    ID         0 - 0.5 0.990
              24    ID         0.5 - 1 0.975
              25    ID         1 - 2   0.950
              26    ID         2 - 3   0.925
              27    ID         3 - 4   0.915
              28    ID         4 - 5   0.908
              29    ID         5 - 6   0.903
              30    ID         6 - 7   0.895
              31    ID         7 - 8   0.885
              32    ID         8 - 9           0.875
              33    ID         9 - 10          0.865
              34    ID         10 - 11         0.857
              35    ID         11 - 12         0.850
              36    ID         12 - 16                 0.832
              37    ID         16 - 20                 0.804
              38    ID         20 - 30                 0.765
              39    ID         30 - 40                 0.725
              40    ID         40 - 50                 0.695
              41    ID         50 - 100                0.640
              42    ID         100 - 150               0.580
              43    ID         150 - 200               0.530
              44    ID
              45    IT      5       0       0     300
              46    IO      5       0       0
              47    IN      5       0       0
              48    JR    PREC   0.832   0.804   0.765   0.725   0.695    0.64    0.58    0.53
                    *
```



```
          LINE      ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

              49    KK     RR1
              50    BA   4.225
              51    PB    4.16
              52    PC       0    0.02   0.059    0.08    0.11   0.144    0.15    0.16   0.168   0.171
              53    PC    0.18   0.182   0.187    0.19   0.197   0.202    0.21    0.22    0.23   0.241
              54    PC    0.25   0.259   0.265    0.28    0.29     0.3   0.305   0.309    0.31   0.317
              55    PC   0.321   0.327   0.333   0.346   0.361   0.381   0.408    0.43   0.477   0.514
              56    PC   0.561    0.63    0.71    0.72   0.731   0.752   0.779    0.79   0.795   0.804
              57    PC    0.81    0.82   0.826    0.84   0.859   0.889    0.91   0.938   0.966    0.97
              58    PC   0.974   0.979   0.981   0.983   0.985   0.989    0.99   0.992   0.993   0.996
              59    PC   0.997   0.999       1
              60    LS       0    85.8
              61    UD   0.443
                    *
              62    KK     RR2
              63    BA   3.547
              64    PB    4.18
              65    LS       0    86.2
              66    UD   0.545
                    *
              67    KK    RRR2
              68    KM   MUSKINGUM ROUTING UNSTABLE - USED MUSKINGUM-CUNGE
              69    KM   NATURAL WASH
              70    RD    1700   0.076    0.04       0    TRAP     100       2
                    *
              71    KK    CRR2
              72    KM   COMBINE RR1 AND RRR2
              73    HC       2
                    *
              74    KK   RCRR2
              75    KM   ROUTE CRR2 TO CRR3
              76    KM   NATURAL WASH
              77    KM   TRAVEL LENGTH = 15850
              78    KM   SLOPE = 0.043
              79    KM   N = 0.04
              80    KM   HYDRAULIC RADIUS = 1.5
              81    KM   VELOCITY = 16.2
              82    RM       3   0.272    0.15
                    *
              83    KK     RR5
              84    BA   7.132
              85    PB    3.91
              86    LS       0    87.9
              87    UD   0.615
                    *
```



```
          LINE      ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

              88    KK   R-RR5
              89    KM   ROUTE RR5 THROUGH RR3 TO CRR3
              90    KM   NATURAL WASH
              91    KM   TRAVEL LENGTH = 10700
              92    KM   SLOPE = 0.037
              93    KM   N = 0.04
              94    KM   HYDRAULIC RADIUS = 1.5
              95    KM   VELOCITY = 15
              96    RM       2   0.198    0.15
                    *
              97    KK     RR3
              98    BA  14.983
              99    PB    3.82
             100    LS       0      87
             101    UD   0.761
                    *
             102    KK    CRR3
             103    KM   COMBINE RCRR2, R-RR5, AND RR3
             104    HC       3
                    *
             105    KK   RCRR3
             106    KM   ROUTE CRR3 THROUGH RR10 TO CRR10
             107    KM   NATURAL WASH
             108    KM   TRAVEL LENGTH = 20700
             109    KM   SLOPE = 0.025
             110    KM   N = 0.04
             111    KM   HYDRAULIC RADIUS = 1.5
             112    KM   VELOCITY = 12.3
             113    RM       6   0.466    0.15
                    *
             114    KK    RR10
             115    BA   8.775
             116    PB    3.44
             117    LS       0    86.1
             118    UD   0.882
```

```
                 *

                 KK   CRR10
                 KM   COMBINE RCRR3 AND RR10
                 HC       2
                 *

                 KK  RCRR10
                 KM   ROUTE CRR10 THROUGH 104A TO C104A (RED ROCK DETENTION BASIN)
                 KM   NATURAL WASH
                 KM   TRAVEL LENGTH = 14500
                 KM   SLOPE = 0.021
                 KM   N = 0.04
                 KM   HYDRAULIC RADIUS = 1.5
                 KM   VELOCITY = 11.3
1                                    HEC-1 INPUT                                    PAGE  4

            LINE     ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

                 RM       4   0.356    0.15
                 *

                 KK   RR12A
                 BA   5.821
                 PB    3.53
                 LS       0    87.6
                 UD   0.728
                 *

                 KK R-RR12A
                 KM   ROUTE RR12A THROUGH 104A TO C104A (RED ROCK DETENTION BASIN)
                 KM   NATURAL WASH
                 KM   TRAVEL LENGTH = 12000
                 KM   SLOPE = 0.026
                 KM   N = 0.04
                 KM   HYDRAULIC RADIUS = 1.5
                 KM   VELOCITY = 12.6
                 RM       3   0.265    0.15
                 *

                 KK    104A
                 BA   3.391
                 PB    3.34
                 LS       0    81.3
                 UD   0.801
                 *

                 KK   C104A
                 KM   COMBINE RCRR10, R-RR12A, AND 104A
                 HC       3
                 *

                 KK     RD1
                 BA   0.431
                 PB    3.51
                 LS       0    86.6
                 UD   0.195
                 *

                 KK   R-RD1
                 KM   ROUTE RD1 THROUGH RD2 TO CRD2
                 KM   FUTURE CONCRETE CHANNEL
                 RD    5100   0.061   0.015       0    TRAP      12       2
                 *

                 KK     RD2
                 BA   0.473
                 PB    3.42
                 LS       0    91.2
                 UD   0.167
                 *
1                                    HEC-1 INPUT                                    PAGE  5

            LINE     ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

                 KK    CRD2
                 KM   COMBINE R-RD1 AND RD2
                 HC       2
                 *

                 KK   RCRD2
                 KM   ROUTE CRD2 TO CRD3 (RED ROCK DETENTION BASIN)
                 KM   FUTURE CONCRETE CHANNEL
                 RD    4600    0.05   0.015       0    TRAP      12       2
                 *

                 KK     RD3
                 BA    0.33
                 PB    3.36
                 LS       0    90.3
                 UD   0.168
                 *

                 KK    CRD3
                 KM   COMBINE RCRD2 AND RD3
                 HC       2
                 *

                 KK   RR14A
                 BA   4.602
                 PB    3.75
                 LS       0    87.3
                 UD   0.725
                 *

                 KK R-RR14A
                 KM   ROUTE RR14A THROUGH RD4 TO CRD4
                 KM   FUTURE CONCRETE CHANNEL
                 RD    5500   0.071   0.015       0    TRAP      12       2
                 *

                 KK     RD4
                 BA   0.402
                 PB    3.49
                 LS       0    85.1
                 UD   0.177
                 *

                 KK    CRD4
                 KM   COMBINE R-RR14A AND RD4
                 HC       2
                 *

                 KK   RCRD4
                 KM   ROUTE CRD4 THROUGH RD5 TO CRD5
                 KM   FUTURE CONCRETE CHANNEL
                 RD    4550   0.067   0.015       0    TRAP      20       2
                 *
1                                    HEC-1 INPUT                                    PAGE  6

            LINE     ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

                 KK     RD5
                 BA    0.37
                 PB    3.42
                 LS       0    86.2
                 UD   0.163
                 *

                 KK    CRD5
                 KM   COMBINE RCRD4 AND RD5
                 HC       2
                 *

                 KK   RCRD5
                 KM   ROUTE CRD5 THROUGH RD6 TO CRD6 (RED ROCK DETENTION BASIN)
                 KM   FUTURE CONCRETE CHANNEL
                 RD    5600   0.047   0.015       0    TRAP      20       2
                 *

                 KK     RD6
                 BA    0.25
                 PB    3.36
                 LS       0      90
                 UD    0.16
                 *

                 KK    CRD6
                 KM   COMBINE RCRD5 AND RD6
                 HC       2
                 *

                 KK    INRR
                 KM   COMBINE C104A, CRD3, AND CRD6 - TOTAL INFLOW TO RED ROCK DETENTION BASIN
                 KO       1
                 HC       3
                 * ============================================================

                 KK    RRDB
                 KM   RED ROCK DETENTION BASIN
                 KM   TAKEN FROM THE CORP MODELS FOR RED ROCK DETENTION BASIN
                 KM   100YR COMPUTED PROBABILITY DETENTION DESIGN
                 KM   FACILITY ID-MILE = RRWA 0716
                 KM   STORAGE VOLUME = 2007 ACRE-FEET
                 KM   OUTLET = 27"H x 27"W RCB ORIFICE
                 KM   100-YR DISCHARGE = 182 CFS
                 KM   SPILLWAY LENGTH = 600 FT
                 KM   AUXILLARY OGEE SPILLWAY LENGTH = 323 FT
                 KM   SPILLWAY CREST ELEVATION = 3212.5 FT NGVD
                 KM   PMF DISCHARGE = 110000 CFS
                 KM   TOP OF DAM ELEVATION = 3225 FT NGVD
                 KO       1
                 RS       1    STOR      -1
                 SV       0       9     107     231     372     529     705     903    1125    1376
                 SV    1659    1974    2007    2115    2331    2690    2933
                 SQ       0      10      57      80      99     114     128     140     151     162
```

```
  LINE          ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

  245           SQ     171     181     182    8654   33270  110918  163477
  246           SE    3161    3162    3167    3172    3177    3182    3187    3192    3197    3202
  247           SE    3207    3212  3212.5    3214    3217    3222    3225
                * ========================================================

  248           KK *DOUTRR
  249           KM   DIVERT SPILLWAY OVERFLOW IN EXCESS OF CORPS DESIGN OUTFLOW
  250           DT*D-RROUT
  251           DI       0     182    3000    5000   10000
  252           DQ       0       0    2818    4818    9818
                *

  253           KK  ROUTRR
  254           KM   ROUTE OUTFLOW FROM RED ROCK DETENTION BASIN THROUGH R3A TO CR3A
  255           KM   FACILITY = RED ROCK CHANNEL
  256           KM   FACILITY # = RRWA 0714, 0709, 0701
  257           KM   LINING = RCP
  258           KM   LINING = RIPRAP CHNL 10'W X 6'D; 2:1SS
  259           RD    1500   0.008    0.04       0    TRAP      10       2
                *

  260           KK     R3A
  261           BA   0.186
  262           PB    3.28
  263           LS       0    84.3
  264           UD    0.11
                *

  265           KK    CR3A
  266           KM   COMBINE OUTFLOW FROM RED ROCK DETENTION BASIN WITH R3A
  267           HC       2
                *

  268           KK   RCR3A
  269           KM   ROUTE CR3A THROUGH UFR1 TO CUFR1
  270           KM   FACILITY = RED ROCK CHANNEL
  271           KM   FACILITY # = RRWA 0695, 0692, 0608, 0607
  272           KM   LINING = RCP
  273           RD    5045  0.0055   0.013       0    CIRC       8       0
                *

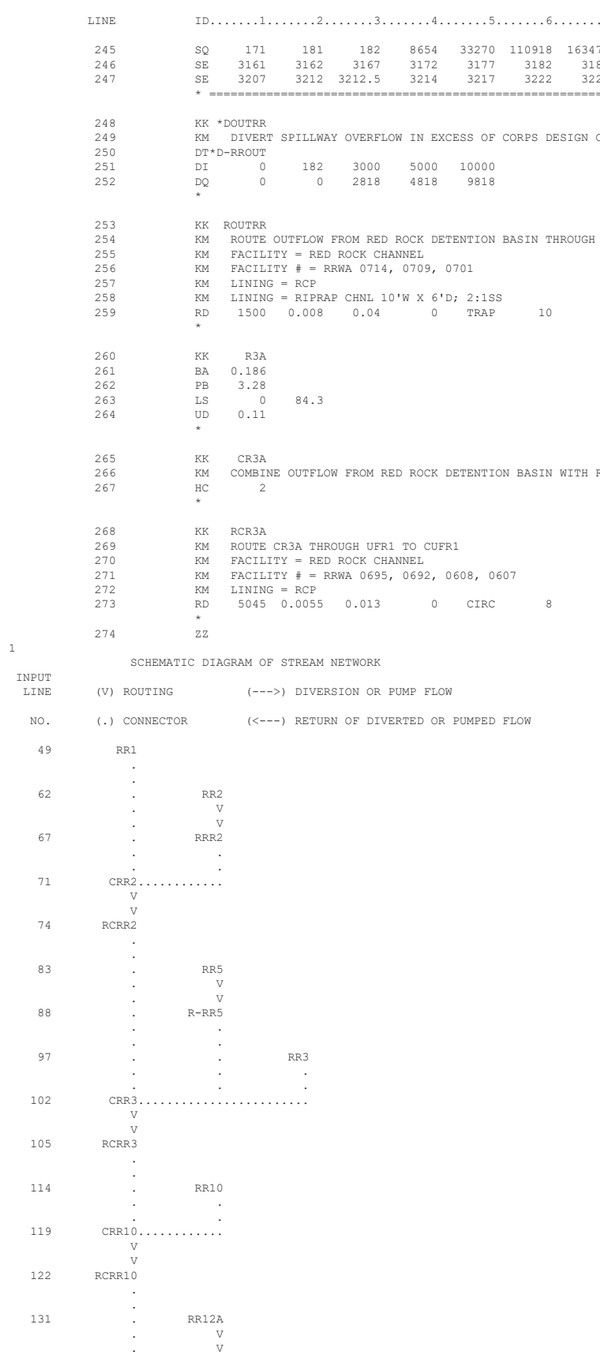
  274           ZZ
```

1

SCHEMATIC DIAGRAM OF STREAM NETWORK

INPUT
LINE (V) ROUTING (---->) DIVERSION OR PUMP FLOW

NO. (.) CONNECTOR (<---) RETURN OF DIVERTED OR PUMPED FLOW



(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

```
1*****************************************
 *                                       *
 *   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
 *             JUN   1998                *
 *          VERSION 4.1                  *
 *                                       *
 *  RUN DATE   20MAY20  TIME  09:45:16   *
 *                                       *
 *****************************************
```

```
*************************************
*                                   *
*    U.S. ARMY CORPS OF ENGINEERS   *
*    HYDROLOGIC ENGINEERING CENTER  *
*         609 SECOND STREET         *
*       DAVIS, CALIFORNIA 95616     *
*           (916) 756-1104          *
*                                   *
*************************************
```

```
                  RED ROCK TRAIL TO FY19-87
                  US FEDERAL HIGHWAY ADMINISTRATION
                  PN=WXXY4000

                  HEC-1 MODEL TAKEN FROM CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT
                  2018 MASTER PLAN UPDATE
                  FLAMINGO / TROPICANA WASHES WATERSHED
                  RECOMMENDED DRAINAGE SYSTEM WITH ULTIMATE DEVELOPMENT
                  INPUT FILE = FLAM5A.DAT
                  INPUT FILE DATE = DECEMBER 2019
                  PRECIPITATION VALUES TAKEN FROM NOAA ATLAS 2 &
                  ADJUSTED PER CCRFCD HYDRAULIC CRITERIA & DRAINAGE DESIGN MANUAL TABLE 501
                  DESIGN STORM = 100-YEAR, 6-HOUR STORM
                  STORM DISTRIBUTION = SDN5
                  STORM CENTERING = SERIES A: REGIONAL DETENTION BASIN FLOWS NOT DIVERTED OUT
                  MODELED BY JACOBS (DAVE BERGH, PE)

                  JR CARDS CONTAIN DARFS BASED ON THE FOLLOWING VALUES:

                         AREA    DARF
                         SQ.MI.
                                 SDN 3   SDN 4   SDN 5
                         0 - 0.5 0.990
                         0.5 - 1 0.975
                         1 - 2   0.950
                         2 - 3   0.925
                         3 - 4   0.915
                         4 - 5   0.908
                         5 - 6   0.903
                         6 - 7   0.895
                         7 - 8   0.885
                         8 - 9           0.875
                         9 - 10          0.865
                         10 - 11         0.857
                         11 - 12         0.850
                         12 - 16                 0.832
                         16 - 20                 0.804
                         20 - 30                 0.765
                         30 - 40                 0.725
                         40 - 50                 0.695
                         50 - 100                0.640
                         100 - 150               0.580
                         150 - 200               0.530


  46 IO          OUTPUT CONTROL VARIABLES
                       IPRNT           5  PRINT CONTROL
                       IPLOT           0  PLOT CONTROL
                       QSCAL          0.  HYDROGRAPH PLOT SCALE

     IT          HYDROGRAPH TIME DATA
                        NMIN           5  MINUTES IN COMPUTATION INTERVAL
                       IDATE      1    0  STARTING DATE
                       ITIME        0000  STARTING TIME
                          NQ         300  NUMBER OF HYDROGRAPH ORDINATES
                      NDDATE      2    0  ENDING DATE
                      NDTIME        0055  ENDING TIME
                       ICENT          19  CENTURY MARK

                   COMPUTATION INTERVAL     .08 HOURS
                        TOTAL TIME BASE   24.92 HOURS

          ENGLISH UNITS
               DRAINAGE AREA         SQUARE MILES
               PRECIPITATION DEPTH   INCHES
               LENGTH, ELEVATION     FEET
               FLOW                  CUBIC FEET PER SECOND
               STORAGE VOLUME        ACRE-FEET
               SURFACE AREA          ACRES
               TEMPERATURE           DEGREES FAHRENHEIT

     JP          MULTI-PLAN OPTION
                       NPLAN           1  NUMBER OF PLANS

     JR          MULTI-RATIO OPTION
                     RATIOS OF PRECIPITATION
                       .83       .80       .76       .73       .69       .64       .58       .53


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


              *************
              *           *
  223 KK      *      INRR *
              *           *
              *************

  225 KO         OUTPUT CONTROL VARIABLES
                       IPRNT           1  PRINT CONTROL
                       IPLOT           0  PLOT CONTROL
                       QSCAL          0.  HYDROGRAPH PLOT SCALE

  226 HC         HYDROGRAPH COMBINATION
                       ICOMP           3  NUMBER OF HYDROGRAPHS TO COMBINE

                                                ***

*****************************************************************************************************

                                    HYDROGRAPH AT STATION     INRR
                                         SUM OF  3 HYDROGRAPHS
                                        PLAN 1,   RATIO =   .83

*****************************************************************************************************
```

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	13856.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	12968.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	11991.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	10954.	1		1245	154	0.	1		1900	229	0.
1		0020	5	4.	1		0635	80	9896.	1		1250	155	0.	1		1905	230	0.
1		0025	6	23.	1		0640	81	8853.	1		1255	156	0.	1		1910	231	0.
1		0030	7	60.	1		0645	82	7857.	1		1300	157	0.	1		1915	232	0.
1		0035	8	88.	1		0650	83	6931.	1		1305	158	0.	1		1920	233	0.
1		0040	9	101.	1		0655	84	6089.	1		1310	159	0.	1		1925	234	0.
1		0045	10	111.	1		0700	85	5333.	1		1315	160	0.	1		1930	235	0.
1		0050	11	125.	1		0705	86	4659.	1		1320	161	0.	1		1935	236	0.
1		0055	12	148.	1		0710	87	4061.	1		1325	162	0.	1		1940	237	0.
1		0100	13	179.	1		0715	88	3530.	1		1330	163	0.	1		1945	238	0.
1		0105	14	218.	1		0720	89	3059.	1		1335	164	0.	1		1950	239	0.
1		0110	15	268.	1		0725	90	2641.	1		1340	165	0.	1		1955	240	0.
1		0115	16	333.	1		0730	91	2270.	1		1345	166	0.	1		2000	241	0.
1		0120	17	414.	1		0735	92	1941.	1		1350	167	0.	1		2005	242	0.
1		0125	18	515.	1		0740	93	1651.	1		1355	168	0.	1		2010	243	0.
1		0130	19	637.	1		0745	94	1396.	1		1400	169	0.	1		2015	244	0.
1		0135	20	779.	1		0750	95	1175.	1		1405	170	0.	1		2020	245	0.
1		0140	21	934.	1		0755	96	984.	1		1410	171	0.	1		2025	246	0.
1		0145	22	1095.	1		0800	97	821.	1		1415	172	0.	1		2030	247	0.
1		0150	23	1255.	1		0805	98	683.	1		1420	173	0.	1		2035	248	0.
1		0155	24	1418.	1		0810	99	567.	1		1425	174	0.	1		2040	249	0.
1		0200	25	1597.	1		0815	100	470.	1		1430	175	0.	1		2045	250	0.
1		0205	26	1787.	1		0820	101	389.	1		1435	176	0.	1		2050	251	0.
1		0210	27	1965.	1		0825	102	321.	1		1440	177	0.	1		2055	252	0.
1		0215	28	2119.	1		0830	103	265.	1		1445	178	0.	1		2100	253	0.
1		0220	29	2257.	1		0835	104	218.	1		1450	179	0.	1		2105	254	0.
1		0225	30	2397.	1		0840	105	180.	1		1455	180	0.	1		2110	255	0.
1		0230	31	2560.	1		0845	106	148.	1		1500	181	0.	1		2115	256	0.
1		0235	32	2744.	1		0850	107	122.	1		1505	182	0.	1		2120	257	0.
1		0240	33	2938.	1		0855	108	100.	1		1510	183	0.	1		2125	258	0.
1		0245	34	3143.	1		0900	109	82.	1		1515	184	0.	1		2130	259	0.
1		0250	35	3373.	1		0905	110	66.	1		1520	185	0.	1		2135	260	0.
1		0255	36	3631.	1		0910	111	54.	1		1525	186	0.	1		2140	261	0.
1		0300	37	3922.	1		0915	112	43.	1		1530	187	0.	1		2145	262	0.
1		0305	38	4240.	1		0920	113	34.	1		1535	188	0.	1		2150	263	0.
1		0310	39	4589.	1		0925	114	26.	1		1540	189	0.	1		2155	264	0.
1		0315	40	5017.	1		0930	115	20.	1		1545	190	0.	1		2200	265	0.
1		0320	41	5516.	1		0935	116	16.	1		1550	191	0.	1		2205	266	0.
1		0325	42	6114.	1		0940	117	12.	1		1555	192	0.	1		2210	267	0.
1		0330	43	6930.	1		0945	118	9.	1		1600	193	0.	1		2215	268	0.
1		0335	44	7812.	1		0950	119	7.	1		1605	194	0.	1		2220	269	0.
1		0340	45	8393.	1		0955	120	5.	1		1610	195	0.	1		2225	270	0.
1		0345	46	8846.	1		1000	121	4.	1		1615	196	0.	1		2230	271	0.
1		0350	47	9562.	1		1005	122	3.	1		1620	197	0.	1		2235	272	0.
1		0355	48	10595.	1		1010	123	2.	1		1625	198	0.	1		2240	273	0.
1		0400	49	11743.	1		1015	124	2.	1		1630	199	0.	1		2245	274	0.
1		0405	50	12928.	1		1020	125	1.	1		1635	200	0.	1		2250	275	0.
1		0410	51	14205.	1		1025	126	1.	1		1640	201	0.	1		2255	276	0.
1		0415	52	15594.	1		1030	127	1.	1		1645	202	0.	1		2300	277	0.
1		0420	53	17057.	1		1035	128	0.	1		1650	203	0.	1		2305	278	0.
1		0425	54	18544.	1		1040	129	0.	1		1655	204	0.	1		2310	279	0.
1		0430	55	20035.	1		1045	130	0.	1		1700	205	0.	1		2315	280	0.
1		0435	56	21494.	1		1050	131	0.	1		1705	206	0.	1		2320	281	0.
1		0440	57	22824.	1		1055	132	0.	1		1710	207	0.	1		2325	282	0.
1		0445	58	23883.	1		1100	133	0.	1		1715	208	0.	1		2330	283	0.
1		0450	59	24620.	1		1105	134	0.	1		1720	209	0.	1		2335	284	0.
1		0455	60	24977.	1		1110	135	0.	1		1725	210	0.	1		2340	285	0.
1		0500	61	24858.	1		1115	136	0.	1		1730	211	0.	1		2345	286	0.
1		0505	62	24352.	1		1120	137	0.	1		1735	212	0.	1		2350	287	0.
1		0510	63	23620.	1		1125	138	0.	1		1740	213	0.	1		2355	288	0.
1		0515	64	22753.	1		1130	139	0.	1		1745	214	0.	2		0000	289	0.
1		0520	65	21797.	1		1135	140	0.	1		1750	215	0.	2		0005	290	0.
1		0525	66	20818.	1		1140	141	0.	1		1755	216	0.	2		0010	291	0.
1		0530	67	19875.	1		1145	142	0.	1		1800	217	0.	2		0015	292	0.
1		0535	68	18999.	1		1150	143	0.	1		1805	218	0.	2		0020	293	0.
1		0540	69	18217.	1		1155	144	0.	1		1810	219	0.	2		0025	294	0.
1		0545	70	17541.	1		1200	145	0.	1		1815	220	0.	2		0030	295	0.
1		0550	71	16958.	1		1205	146	0.	1		1820	221	0.	2		0035	296	0.
1		0555	72	16427.	1		1210	147	0.	1		1825	222	0.	2		0040	297	0.
1		0600	73	15895.	1		1215	148	0.	1		1830	223	0.	2		0045	298	0.
1		0605	74	15311.	1		1220	149	0.	1		1835	224	0.	2		0050	299	0.
1		0610	75	14637.	1		1225	150	0.	1		1840	225	0.	2		0055	300	0.

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PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 24977.	4.92	10480.	2665.	2567.	2567.
		(INCHES) 1.780	1.811	1.811	1.811
		(AC-FT) 5197.	5286.	5286.	5286.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .80

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	13271.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	12422.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	11487.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	10496.	1		1245	154	0.	1		1900	229	0.
1		0020	5	3.	1		0635	80	9484.	1		1250	155	0.	1		1905	230	0.
1		0025	6	19.	1		0640	81	8485.	1		1255	156	0.	1		1910	231	0.
1		0030	7	52.	1		0645	82	7531.	1		1300	157	0.	1		1915	232	0.
1		0035	8	77.	1		0650	83	6644.	1		1305	158	0.	1		1920	233	0.
1		0040	9	88.	1		0655	84	5837.	1		1310	159	0.	1		1925	234	0.
1		0045	10	96.	1		0700	85	5113.	1		1315	160	0.	1		1930	235	0.
1		0050	11	108.	1		0705	86	4467.	1		1320	161	0.	1		1935	236	0.
1		0055	12	127.	1		0710	87	3894.	1		1325	162	0.	1		1940	237	0.
1		0100	13	154.	1		0715	88	3385.	1		1330	163	0.	1		1945	238	0.
1		0105	14	187.	1		0720	89	2934.	1		1335	164	0.	1		1950	239	0.
1		0110	15	230.	1		0725	90	2533.	1		1340	165	0.	1		1955	240	0.
1		0115	16	286.	1		0730	91	2177.	1		1345	166	0.	1		2000	241	0.
1		0120	17	357.	1		0735	92	1862.	1		1350	167	0.	1		2005	242	0.
1		0125	18	445.	1		0740	93	1583.	1		1355	168	0.	1		2010	243	0.
1		0130	19	553.	1		0745	94	1339.	1		1400	169	0.	1		2015	244	0.
1		0135	20	679.	1		0750	95	1127.	1		1405	170	0.	1		2020	245	0.
1		0140	21	818.	1		0755	96	944.	1		1410	171	0.	1		2025	246	0.
1		0145	22	963.	1		0800	97	788.	1		1415	172	0.	1		2030	247	0.
1		0150	23	1108.	1		0805	98	655.	1		1420	173	0.	1		2035	248	0.
1		0155	24	1257.	1		0810	99	544.	1		1425	174	0.	1		2040	249	0.
1		0200	25	1423.	1		0815	100	451.	1		1430	175	0.	1		2045	250	0.
1		0205	26	1599.	1		0820	101	373.	1		1435	176	0.	1		2050	251	0.
1		0210	27	1766.	1		0825	102	308.	1		1440	177	0.	1		2055	252	0.
1		0215	28	1913.	1		0830	103	254.	1		1445	178	0.	1		2100	253	0.
1		0220	29	2045.	1		0835	104	210.	1		1450	179	0.	1		2105	254	0.
1		0225	30	2179.	1		0840	105	173.	1		1455	180	0.	1		2110	255	0.
1		0230	31	2336.	1		0845	106	142.	1		1500	181	0.	1		2115	256	0.
1		0235	32	2512.	1		0850	107	117.	1		1505	182	0.	1		2120	257	0.
1		0240	33	2697.	1		0855	108	96.	1		1510	183	0.	1		2125	258	0.
1		0245	34	2894.	1		0900	109	78.	1		1515	184	0.	1		2130	259	0.
1		0250	35	3113.	1		0905	110	64.	1		1520	185	0.	1		2135	260	0.
1		0255	36	3359.	1		0910	111	51.	1		1525	186	0.	1		2140	261	0.
1		0300	37	3635.	1		0915	112	41.	1		1530	187	0.	1		2145	262	0.
1		0305	38	3937.	1		0920	113	32.	1		1535	188	0.	1		2150	263	0.
1		0310	39	4271.	1		0925	114	25.	1		1540	189	0.	1		2155	264	0.
1		0315	40	4681.	1		0930	115	20.	1		1545	190	0.	1		2200	265	0.
1		0320	41	5154.	1		0935	116	15.	1		1550	191	0.	1		2205	266	0.
1		0325	42	5719.	1		0940	117	12.	1		1555	192	0.	1		2210	267	0.
1		0330	43	6499.	1		0945	118	9.	1		1600	193	0.	1		2215	268	0.
1		0335	44	7348.	1		0950	119	7.	1		1605	194	0.	1		2220	269	0.
1		0340	45	7908.	1		0955	120	5.	1		1610	195	0.	1		2225	270	0.
1		0345	46	8342.	1		1000	121	4.	1		1615	196	0.	1		2230	271	0.
1		0350	47	9022.	1		1005	122	3.	1		1620	197	0.	1		2235	272	0.
1		0355	48	10007.	1		1010	123	2.	1		1625	198	0.	1		2240	273	0.
1		0400	49	11102.	1		1015	124	2.	1		1630	199	0.	1		2245	274	0.
1		0405	50	12234.	1		1020	125	1.	1		1635	200	0.	1		2250	275	0.
1		0410	51	13457.	1		1025	126	1.	1		1640	201	0.	1		2255	276	0.
1		0415	52	14782.	1		1030	127	1.	1		1645	202	0.	1		2300	277	0.
1		0420	53	16180.	1		1035	128	0.	1		1650	203	0.	1		2305	278	0.
1		0425	54	17602.	1		1040	129	0.	1		1655	204	0.	1		2310	279	0.
1		0430	55	19030.	1		1045	130	0.	1		1700	205	0.	1		2315	280	0.
1		0435	56	20427.	1		1050	131	0.	1		1705	206	0.	1		2320	281	0.
1		0440	57	21705.	1		1055	132	0.	1		1710	207	0.	1		2325	282	0.
1		0445	58	22725.	1		1100	133	0.	1		1715	208	0.	1		2330	283	0.
1		0450	59	23440.	1		1105	134	0.	1		1720	209	0.	1		2335	284	0.
1		0455	60	23793.	1		1110	135	0.	1		1725	210	0.	1		2340	285	0.
1		0500	61	23693.	1		1115	136	0.	1		1730	211	0.	1		2345	286	0.
1		0505	62	23218.	1		1120	137	0.	1		1735	212	0.	1		2350	287	0.
1		0510	63	22529.	1		1125	138	0.	1		1740	213	0.	1		2355	288	0.
1		0515	64	21707.	1		1130	139	0.	1		1745	214	0.	2		0000	289	0.
1		0520	65	20804.	1		1135	140	0.	1		1750	215	0.	2		0005	290	0.
1		0525	66	19878.	1		1140	141	0.	1		1755	216	0.	2		0010	291	0.
1		0530	67	18982.	1		1145	142	0.	1		1800	217	0.	2		0015	292	0.
1		0535	68	18153.	1		1150	143	0.	1		1805	218	0.	2		0020	293	0.
1		0540	69	17414.	1		1155	144	0.	1		1810	219	0.	2		0025	294	0.
1		0545	70	16773.	1		1200	145	0.	1		1815	220	0.	2		0030	295	0.
1		0550	71	16221.	1		1205	146	0.	1		1820	221	0.	2		0035	296	0.
1		0555	72	15718.	1		1210	147	0.	1		1825	222	0.	2		0040	297	0.
1		0600	73	15213.	1		1215	148	0.	1		1830	223	0.	2		0045	298	0.
1		0605	74	14657.	1		1220	149	0.	1		1835	224	0.	2		0050	299	0.
1		0610	75	14016.	1		1225	150	0.	1		1840	225	0.	2		0055	300	0.

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 23793.	4.92	9960.	2531.	2438.	2438.
		(INCHES) 1.692	1.720	1.720	1.720
		(AC-FT) 4939.	5020.	5020.	5020.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .76

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	12456.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	11663.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	10788.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	9859.	1		1245	154	0.	1		1900	229	0.
1		0020	5	2.	1		0635	80	8909.	1		1250	155	0.	1		1905	230	0.
1		0025	6	14.	1		0640	81	7972.	1		1255	156	0.	1		1910	231	0.
1		0030	7	41.	1		0645	82	7077.	1		1300	157	0.	1		1915	232	0.
1		0035	8	63.	1		0650	83	6244.	1		1305	158	0.	1		1920	233	0.
1		0040	9	72.	1		0655	84	5486.	1		1310	159	0.	1		1925	234	0.
1		0045	10	78.	1		0700	85	4806.	1		1315	160	0.	1		1930	235	0.
1		0050	11	86.	1		0705	86	4200.	1		1320	161	0.	1		1935	236	0.
1		0055	12	101.	1		0710	87	3661.	1		1325	162	0.	1		1940	237	0.
1		0100	13	122.	1		0715	88	3183.	1		1330	163	0.	1		1945	238	0.
1		0105	14	148.	1		0720	89	2759.	1		1335	164	0.	1		1950	239	0.
1		0110	15	181.	1		0725	90	2382.	1		1340	165	0.	1		1955	240	0.
1		0115	16	227.	1		0730	91	2048.	1		1345	166	0.	1		2000	241	0.
1		0120	17	284.	1		0735	92	1751.	1		1350	167	0.	1		2005	242	0.
1		0125	18	356.	1		0740	93	1489.	1		1355	168	0.	1		2010	243	0.
1		0130	19	446.	1		0745	94	1260.	1		1400	169	0.	1		2015	244	0.
1		0135	20	551.	1		0750	95	1060.	1		1405	170	0.	1		2020	245	0.
1		0140	21	668.	1		0755	96	888.	1		1410	171	0.	1		2025	246	0.
1		0145	22	792.	1		0800	97	741.	1		1415	172	0.	1		2030	247	0.
1		0150	23	916.	1		0805	98	617.	1		1420	173	0.	1		2035	248	0.
1		0155	24	1046.	1		0810	99	512.	1		1425	174	0.	1		2040	249	0.
1		0200	25	1192.	1		0815	100	424.	1		1430	175	0.	1		2045	250	0.
1		0205	26	1352.	1		0820	101	351.	1		1435	176	0.	1		2050	251	0.
1		0210	27	1504.	1		0825	102	290.	1		1440	177	0.	1		2055	252	0.
1		0215	28	1639.	1		0830	103	239.	1		1445	178	0.	1		2100	253	0.
1		0220	29	1763.	1		0835	104	197.	1		1450	179	0.	1		2105	254	0.
1		0225	30	1888.	1		0840	105	162.	1		1455	180	0.	1		2110	255	0.
1		0230	31	2034.	1		0845	106	134.	1		1500	181	0.	1		2115	256	0.
1		0235	32	2199.	1		0850	107	110.	1		1505	182	0.	1		2120	257	0.
1		0240	33	2372.	1		0855	108	90.	1		1510	183	0.	1		2125	258	0.
1		0245	34	2555.	1		0900	109	74.	1		1515	184	0.	1		2130	259	0.
1		0250	35	2759.	1		0905	110	60.	1		1520	185	0.	1		2135	260	0.
1		0255	36	2987.	1		0910	111	48.	1		1525	186	0.	1		2140	261	0.
1		0300	37	3244.	1		0915	112	39.	1		1530	187	0.	1		2145	262	0.
1		0305	38	3525.	1		0920	113	31.	1		1535	188	0.	1		2150	263	0.
1		0310	39	3836.	1		0925	114	24.	1		1540	189	0.	1		2155	264	0.
1		0315	40	4218.	1		0930	115	19.	1		1545	190	0.	1		2200	265	0.
1		0320	41	4660.	1		0935	116	14.	1		1550	191	0.	1		2205	266	0.
1		0325	42	5188.	1		0940	117	11.	1		1555	192	0.	1		2210	267	0.
1		0330	43	5911.	1		0945	118	8.	1		1600	193	0.	1		2215	268	0.
1		0335	44	6706.	1		0950	119	6.	1		1605	194	0.	1		2220	269	0.
1		0340	45	7237.	1		0955	120	5.	1		1610	195	0.	1		2225	270	0.
1		0345	46	7647.	1		1000	121	4.	1		1615	196	0.	1		2230	271	0.
1		0350	47	8278.	1		1005	122	3.	1		1620	197	0.	1		2235	272	0.
1		0355	48	9191.	1		1010	123	2.	1		1625	198	0.	1		2240	273	0.
1		0400	49	10221.	1		1015	124	2.	1		1630	199	0.	1		2245	274	0.
1		0405	50	11280.	1		1020	125	1.	1		1635	200	0.	1		2250	275	0.
1		0410	51	12416.	1		1025	126	1.	1		1640	201	0.	1		2255	276	0.
1		0415	52	13654.	1		1030	127	1.	1		1645	202	0.	1		2300	277	0.
1		0420	53	14964.	1		1035	128	0.	1		1650	203	0.	1		2305	278	0.
1		0425	54	16298.	1		1040	129	0.	1		1655	204	0.	1		2310	279	0.
1		0430	55	17636.	1		1045	130	0.	1		1700	205	0.	1		2315	280	0.
1		0435	56	18949.	1		1050	131	0.	1		1705	206	0.	1		2320	281	0.
1		0440	57	20153.	1		1055	132	0.	1		1710	207	0.	1		2325	282	0.
1		0445	58	21120.	1		1100	133	0.	1		1715	208	0.	1		2330	283	0.
1		0450	59	21802.	1		1105	134	0.	1		1720	209	0.	1		2335	284	0.
1		0455	60	22146.	1		1110	135	0.	1		1725	210	0.	1		2340	285	0.
1		0500	61	22067.	1		1115	136	0.	1		1730	211	0.	1		2345	286	0.
1		0505	62	21639.	1		1120	137	0.	1		1735	212	0.	1		2350	287	0.
1		0510	63	21010.	1		1125	138	0.	1		1740	213	0.	1		2355	288	0.
1		0515	64	20257.	1		1130	139	0.	1		1745	214	0.	2		0000	289	0.
1		0520	65	19425.	1		1135	140	0.	1		1750	215	0.	2		0005	290	0.
1		0525	66	18571.	1		1140	141	0.	1		1755	216	0.	2		0010	291	0.
1		0530	67	17745.	1		1145	142	0.	1		1800	217	0.	2		0015	292	0.

1	0535	68	16979.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.					
1	0540	69	16295.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.					
1	0545	70	15704.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.					
1	0550	71	15195.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.					
1	0555	72	14731.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.					
1	0600	73	14264.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.					
1	0605	74	13749.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.					
1	0610	75	13152.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.					
				*					*					*									

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PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 22146.	4.92	9241.	2346.	2260.	2260.
		(INCHES) 1.570	1.594	1.594	1.594
		(AC-FT) 4582.	4653.	4653.	4653.

CUMULATIVE AREA = 54.73 SQ MI

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HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .73

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	*	1	0615	76	11620.	*	1	1230	151	0.	*	1	1845	226	0.					
1	0005	2	0.	*	1	0620	77	10884.	*	1	1235	152	0.	*	1	1850	227	0.					
1	0010	3	0.	*	1	0625	78	10070.	*	1	1240	153	0.	*	1	1855	228	0.					
1	0015	4	0.	*	1	0630	79	9205.	*	1	1245	154	0.	*	1	1900	229	0.					
1	0020	5	1.	*	1	0635	80	8320.	*	1	1250	155	0.	*	1	1905	230	0.					
1	0025	6	10.	*	1	0640	81	7446.	*	1	1255	156	0.	*	1	1910	231	0.					
1	0030	7	31.	*	1	0645	82	6610.	*	1	1300	157	0.	*	1	1915	232	0.					
1	0035	8	49.	*	1	0650	83	5834.	*	1	1305	158	0.	*	1	1920	233	0.					
1	0040	9	57.	*	1	0655	84	5126.	*	1	1310	159	0.	*	1	1925	234	0.					
1	0045	10	61.	*	1	0700	85	4491.	*	1	1315	160	0.	*	1	1930	235	0.					
1	0050	11	67.	*	1	0705	86	3925.	*	1	1320	161	0.	*	1	1935	236	0.					
1	0055	12	78.	*	1	0710	87	3422.	*	1	1325	162	0.	*	1	1940	237	0.					
1	0100	13	93.	*	1	0715	88	2976.	*	1	1330	163	0.	*	1	1945	238	0.					
1	0105	14	113.	*	1	0720	89	2580.	*	1	1335	164	0.	*	1	1950	239	0.					
1	0110	15	138.	*	1	0725	90	2228.	*	1	1340	165	0.	*	1	1955	240	0.					
1	0115	16	174.	*	1	0730	91	1915.	*	1	1345	166	0.	*	1	2000	241	0.					
1	0120	17	219.	*	1	0735	92	1638.	*	1	1350	167	0.	*	1	2005	242	0.					
1	0125	18	277.	*	1	0740	93	1393.	*	1	1355	168	0.	*	1	2010	243	0.					
1	0130	19	349.	*	1	0745	94	1178.	*	1	1400	169	0.	*	1	2015	244	0.					
1	0135	20	434.	*	1	0750	95	992.	*	1	1405	170	0.	*	1	2020	245	0.					
1	0140	21	531.	*	1	0755	96	831.	*	1	1410	171	0.	*	1	2025	246	0.					
1	0145	22	633.	*	1	0800	97	693.	*	1	1415	172	0.	*	1	2030	247	0.					
1	0150	23	737.	*	1	0805	98	577.	*	1	1420	173	0.	*	1	2035	248	0.					
1	0155	24	848.	*	1	0810	99	479.	*	1	1425	174	0.	*	1	2040	249	0.					
1	0200	25	975.	*	1	0815	100	397.	*	1	1430	175	0.	*	1	2045	250	0.					
1	0205	26	1115.	*	1	0820	101	328.	*	1	1435	176	0.	*	1	2050	251	0.					
1	0210	27	1252.	*	1	0825	102	271.	*	1	1440	177	0.	*	1	2055	252	0.					
1	0215	28	1375.	*	1	0830	103	224.	*	1	1445	178	0.	*	1	2100	253	0.					
1	0220	29	1489.	*	1	0835	104	185.	*	1	1450	179	0.	*	1	2105	254	0.					
1	0225	30	1605.	*	1	0840	105	152.	*	1	1455	180	0.	*	1	2110	255	0.					
1	0230	31	1740.	*	1	0845	106	125.	*	1	1500	181	0.	*	1	2115	256	0.					
1	0235	32	1892.	*	1	0850	107	103.	*	1	1505	182	0.	*	1	2120	257	0.					
1	0240	33	2052.	*	1	0855	108	84.	*	1	1510	183	0.	*	1	2125	258	0.					
1	0245	34	2222.	*	1	0900	109	69.	*	1	1515	184	0.	*	1	2130	259	0.					
1	0250	35	2410.	*	1	0905	110	56.	*	1	1520	185	0.	*	1	2135	260	0.					
1	0255	36	2620.	*	1	0910	111	45.	*	1	1525	186	0.	*	1	2140	261	0.					
1	0300	37	2856.	*	1	0915	112	36.	*	1	1530	187	0.	*	1	2145	262	0.					
1	0305	38	3115.	*	1	0920	113	29.	*	1	1535	188	0.	*	1	2150	263	0.					
1	0310	39	3401.	*	1	0925	114	22.	*	1	1540	189	0.	*	1	2155	264	0.					
1	0315	40	3754.	*	1	0930	115	17.	*	1	1545	190	0.	*	1	2200	265	0.					
1	0320	41	4163.	*	1	0935	116	13.	*	1	1550	191	0.	*	1	2205	266	0.					
1	0325	42	4654.	*	1	0940	117	10.	*	1	1555	192	0.	*	1	2210	267	0.					
1	0330	43	5326.	*	1	0945	118	8.	*	1	1600	193	0.	*	1	2215	268	0.					
1	0335	44	6062.	*	1	0950	119	6.	*	1	1605	194	0.	*	1	2220	269	0.					
1	0340	45	6561.	*	1	0955	120	5.	*	1	1610	195	0.	*	1	2225	270	0.					
1	0345	46	6943.	*	1	1000	121	4.	*	1	1615	196	0.	*	1	2230	271	0.					
1	0350	47	7523.	*	1	1005	122	3.	*	1	1620	197	0.	*	1	2235	272	0.					
1	0355	48	8369.	*	1	1010	123	2.	*	1	1625	198	0.	*	1	2240	273	0.					
1	0400	49	9322.	*	1	1015	124	2.	*	1	1630	199	0.	*	1	2245	274	0.					
1	0405	50	10305.	*	1	1020	125	1.	*	1	1635	200	0.	*	1	2250	275	0.					
1	0410	51	11361.	*	1	1025	126	1.	*	1	1640	201	0.	*	1	2255	276	0.					
1	0415	52	12511.	*	1	1030	127	1.	*	1	1645	202	0.	*	1	2300	277	0.					
1	0420	53	13729.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.					
1	0425	54	14971.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.					
1	0430	55	16219.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.					
1	0435	56	17445.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.					
1	0440	57	18573.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.					
1	0445	58	19482.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.					
1	0450	59	20130.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.					
1	0455	60	20465.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.					
1	0500	61	20406.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.					
1	0505	62	20026.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.					
1	0510	63	19458.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.					
1	0515	64	18774.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.					
1	0520	65	18015.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.					
1	0525	66	17233.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.					
1	0530	67	16477.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.					
1	0535	68	15776.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.					
1	0540	69	15151.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.					
1	0545	70	14610.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.					
1	0550	71	14145.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.					
1	0555	72	13720.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.					
1	0600	73	13291.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.					
1	0605	74	12817.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.					
1	0610	75	12265.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.					
				*					*					*									

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PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 20465.	4.92	8512.	2159.	2079.	2079.
		(INCHES) 1.446	1.467	1.467	1.467
		(AC-FT) 4221.	4282.	4282.	4282.

CUMULATIVE AREA = 54.73 SQ MI

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HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .69

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	*	1	0615	76	10994.	*	1	1230	151	0.	*	1	1845	226	0.					
1	0005	2	0.	*	1	0620	77	10299.	*	1	1235	152	0.	*	1	1850	227	0.					
1	0010	3	0.	*	1	0625	78	9531.	*	1	1240	153	0.	*	1	1855	228	0.					
1	0015	4	0.	*	1	0630	79	8714.	*	1	1245	154	0.	*	1	1900	229	0.					
1	0020	5	1.	*	1	0635	80	7878.	*	1	1250	155	0.	*	1	1905	230	0.					
1	0025	6	8.	*	1	0640	81	7051.	*	1	1255	156	0.	*	1	1910	231	0.					
1	0030	7	25.	*	1	0645	82	6261.	*	1	1300	157	0.	*	1	1915	232	0.					
1	0035	8	40.	*	1	0650	83	5526.	*	1	1305	158	0.	*	1	1920	233	0.					
1	0040	9	47.	*	1	0655	84	4857.	*	1	1310	159	0.	*	1	1925	234	0.					
1	0045	10	50.	*	1	0700	85	4255.	*	1	1315	160	0.	*	1	1930	235	0.					
1	0050	11	55.	*	1	0705	86	3720.	*	1	1320	161	0.	*	1	1935	236	0.					
1	0055	12	63.	*	1	0710	87	3243.	*	1	1325	162	0.	*	1	1940	237	0.					
1	0100	13	75.	*	1	0715	88	2821.	*	1	1330	163	0.	*	1	1945	238	0.					
1	0105	14	90.	*	1	0720	89	2445.	*	1	1335	164	0.	*	1	1950	239	0.					
1	0110	15	110.	*	1	0725	90	2111.	*	1	1340	165	0.	*	1	1955	240	0.					
1	0115	16	139.	*	1	0730	91	1815.	*	1	1345	166	0.	*	1	2000	241	0.					
1	0120	17	176.	*	1	0735	92	1553.	*	1	1350	167	0.	*	1	2005	242	0.					
1	0125	18	224.	*	1	0740	93	1321.	*	1	1355	168	0.	*	1	2010	243	0.					
1	0130	19	284.	*	1	0745	94	1117.	*	1	1400	169	0.	*	1	2015	244	0.					
1	0135	20	356.	*	1	0750	95	940.	*	1	1405	170	0.	*	1	2020	245	0.					
1	0140	21	438.	*	1	0755	96	788.	*	1	1410	171	0.	*	1	2025	246	0.					
1	0145	22	525.	*	1	0800	97	658.	*	1	1415	172	0.	*	1	2030	247	0.					
1	0150	23	615.	*	1	0805	98	547.	*	1	1420	173	0.	*	1	2035	248	0.					
1	0155	24	712.	*	1	0810	99	454.	*	1	1425	174	0.	*	1	2040	249	0.					
1	0200	25	825.	*	1	0815	100	376.	*	1	1430	175	0.	*	1	2045	250	0.					
1	0205	26	951.	*	1	0820	101	311.	*	1	1435	176	0.	*	1	2050	251	0.					
1	0210	27	1075.	*	1	0825	102	257.	*	1	1440	177	0.	*	1	2055	252	0.					
1	0215	28	1189.	*	1	0830	103	212.	*	1	1445	178	0.	*	1	2100	253	0.					
1	0220	29	1294.	*	1	0835	104	175.	*	1	1450	179	0.	*	1	2105	254	0.					
1	0225	30	1403.	*	1	0840	105	144.	*	1	1455	180	0.	*	1	2110	255	0.					
1	0230	31	1530.	*	1	0845	106	119.	*	1	1500	181	0.	*	1	2115	256	0.					
1	0235	32	1672.	*	1	0850	107	97.	*	1	1505	182	0.	*	1	2120	257	0.					
1	0240	33	1822.	*	1	0855	108	80.	*	1	1510	183	0.	*	1	2125	258	0.					
1	0245	34	1980.	*	1	0900	109	65.	*	1	1515	184	0.	*	1	2130	259	0.					
1	0250	35	2156.	*	1	0905	110	53.	*	1	1520	185	0.	*	1	2135	260	0.					
1	0255	36	2353.	*	1	0910	111	43.	*	1	1525	186	0.	*	1	2140	261	0.					
1	0300	37	2574.	*	1	0915	112	34.	*	1	1530	187	0.	*	1	2145	262	0.					
1	0305	38	2816.	*	1	0920	113	27.	*	1	1535	188	0.	*	1	2150	263	0.					
1	0310	39	3085.	*	1	0925	114	21.	*	1	1540	189	0.	*	1	2155	264	0.					
1	0315	40	3414.	*	1	0930	115	16.	*	1	1545	190	0.	*	1	2200	265	0.					
1	0320	41	3799.	*	1	0935	116	13.	*	1	1550	191	0.	*	1	2205	266	0.					
1	0325	42	4260.	*	1	0940	117	10.	*	1	1555	192	0.	*	1	2210	267	0.					
1	0330	43	4893.	*	1	0945	118	7.	*	1	1600	193	0.	*	1	2215	268	0.					
1	0335	44	5585.	*	1	0950	119	6.	*	1	1605	194	0.	*	1	2220	269	0.					
1	0340	45	6056.	*	1	0955	120	4.	*	1	1610	195	0.	*	1	2225	270	0.					
1	0345	46	6417.	*	1	1000	121	3.	*	1	1615	196	0.	*	1	2230	271	0.					
1	0350	47	6966.	*	1	1005	122	3.	*	1	1620	197	0.	*	1	2235	272	0.					
1	0355	48	7763.	*	1	1010	123	2.	*	1	1625	198	0.	*	1	2240	273	0.					
1	0400	49	8661.	*	1	1015	124	1.	*	1	1630	199	0.	*	1	2245	274	0.					
1	0405	50	9587.	*	1	1020	125	1.	*	1	1635	200	0.	*	1	2250	275	0.					
1	0410	51	10580.	*	1	1025	126	1.	*	1	1640	201	0.	*	1	2255	276	0.					
1	0415	52	11664.	*	1	1030	127	1.	*	1	1645	202	0.	*	1	2300	277	0.					
1	0420	53	12812.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.					
1	0425	54	13983.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.					
1	0430	55	15164.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.					
1	0435	56	16327.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.					
1	0440	57	17397.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.					

1	0445	58	18263.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.					
1	0450	59	18884.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.					
1	0455	60	19213.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.					
1	0500	61	19172.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.					
1	0505	62	18825.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.					
1	0510	63	18299.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.					
1	0515	64	17664.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.					
1	0520	65	16960.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.					
1	0525	66	16233.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.					
1	0530	67	15530.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.					
1	0535	68	14877.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.					
1	0540	69	14295.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.					
1	0545	70	13791.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.					
1	0550	71	13358.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.					
1	0555	72	12963.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.					
1	0600	73	12563.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.					
1	0605	74	12119.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.					
1	0610	75	11601.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.					

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
	(CFS)				
+ 19213.	4.92	7970.	2020.	1945.	1945.
	(INCHES)	1.354	1.372	1.372	1.372
	(AC-FT)	3952.	4006.	4006.	4006.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .64

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	0000		1	0.	1	0615		76	9848.	1	1230		151	0.	1	1845		226	0.
1	0005		2	0.	1	0620		77	9231.	1	1235		152	0.	1	1850		227	0.
1	0010		3	0.	1	0625		78	8546.	1	1240		153	0.	1	1855		228	0.
1	0015		4	0.	1	0630		79	7816.	1	1245		154	0.	1	1900		229	0.
1	0020		5	0.	1	0635		80	7068.	1	1250		155	0.	1	1905		230	0.
1	0025		6	4.	1	0640		81	6329.	1	1255		156	0.	1	1910		231	0.
1	0030		7	15.	1	0645		82	5621.	1	1300		157	0.	1	1915		232	0.
1	0035		8	27.	1	0650		83	4962.	1	1305		158	0.	1	1920		233	0.
1	0040		9	33.	1	0655		84	4362.	1	1310		159	0.	1	1925		234	0.
1	0045		10	34.	1	0700		85	3823.	1	1315		160	0.	1	1930		235	0.
1	0050		11	36.	1	0705		86	3342.	1	1320		161	0.	1	1935		236	0.
1	0055		12	40.	1	0710		87	2915.	1	1325		162	0.	1	1940		237	0.
1	0100		13	46.	1	0715		88	2536.	1	1330		163	0.	1	1945		238	0.
1	0105		14	55.	1	0720		89	2198.	1	1335		164	0.	1	1950		239	0.
1	0110		15	67.	1	0725		90	1899.	1	1340		165	0.	1	1955		240	0.
1	0115		16	85.	1	0730		91	1633.	1	1345		166	0.	2	2000		241	0.
1	0120		17	110.	1	0735		92	1397.	1	1350		167	0.	2	2005		242	0.
1	0125		18	142.	1	0740		93	1188.	1	1355		168	0.	2	2010		243	0.
1	0130		19	183.	1	0745		94	1005.	1	1400		169	0.	2	2015		244	0.
1	0135		20	233.	1	0750		95	846.	1	1405		170	0.	2	2020		245	0.
1	0140		21	291.	1	0755		96	709.	1	1410		171	0.	2	2025		246	0.
1	0145		22	354.	1	0800		97	592.	1	1415		172	0.	2	2030		247	0.
1	0150		23	420.	1	0805		98	493.	1	1420		173	0.	2	2035		248	0.
1	0155		24	493.	1	0810		99	409.	1	1425		174	0.	2	2040		249	0.
1	0200		25	580.	1	0815		100	339.	1	1430		175	0.	2	2045		250	0.
1	0205		26	680.	1	0820		101	280.	1	1435		176	0.	2	2050		251	0.
1	0210		27	781.	1	0825		102	232.	1	1440		177	0.	2	2055		252	0.
1	0215		28	876.	1	0830		103	191.	1	1445		178	0.	2	2100		253	0.
1	0220		29	966.	1	0835		104	158.	1	1450		179	0.	2	2105		254	0.
1	0225		30	1060.	1	0840		105	130.	1	1455		180	0.	2	2110		255	0.
1	0230		31	1169.	1	0845		106	107.	1	1500		181	0.	2	2115		256	0.
1	0235		32	1292.	1	0850		107	88.	1	1505		182	0.	2	2120		257	0.
1	0240		33	1423.	1	0855		108	72.	1	1510		183	0.	2	2125		258	0.
1	0245		34	1561.	1	0900		109	59.	1	1515		184	0.	2	2130		259	0.
1	0250		35	1713.	1	0905		110	48.	1	1520		185	0.	2	2135		260	0.
1	0255		36	1885.	1	0910		111	39.	1	1525		186	0.	2	2140		261	0.
1	0300		37	2078.	1	0915		112	31.	1	1530		187	0.	2	2145		262	0.
1	0305		38	2290.	1	0920		113	24.	1	1535		188	0.	2	2150		263	0.
1	0310		39	2525.	1	0925		114	19.	1	1540		189	0.	2	2155		264	0.
1	0315		40	2813.	1	0930		115	15.	1	1545		190	0.	2	2200		265	0.
1	0320		41	3152.	1	0935		116	11.	1	1550		191	0.	2	2205		266	0.
1	0325		42	3558.	1	0940		117	9.	1	1555		192	0.	2	2210		267	0.
1	0330		43	4116.	1	0945		118	7.	1	1600		193	0.	2	2215		268	0.
1	0335		44	4735.	1	0950		119	5.	1	1605		194	0.	2	2220		269	0.
1	0340		45	5162.	1	0955		120	4.	1	1610		195	0.	2	2225		270	0.
1	0345		46	5480.	1	1000		121	3.	1	1615		196	0.	2	2230		271	0.
1	0350		47	5963.	1	1005		122	2.	1	1620		197	0.	2	2235		272	0.
1	0355		48	6669.	1	1010		123	2.	1	1625		198	0.	2	2240		273	0.
1	0400		49	7468.	1	1015		124	1.	1	1630		199	0.	2	2245		274	0.
1	0405		50	8292.	1	1020		125	1.	1	1635		200	0.	2	2250		275	0.
1	0410		51	9174.	1	1025		126	1.	1	1640		201	0.	2	2255		276	0.
1	0415		52	10135.	1	1030		127	0.	1	1645		202	0.	2	2300		277	0.

1	0420	53	11156.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.					
1	0425	54	12199.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.					
1	0430	55	13252.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.					
1	0435	56	14295.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.					
1	0440	57	15260.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.					
1	0445	58	16048.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.					
1	0450	59	16620.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.					
1	0455	60	16935.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.					
1	0500	61	16924.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.					
1	0505	62	16636.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.					
1	0510	63	16189.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.					
1	0515	64	15647.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.					
1	0520	65	15039.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.					
1	0525	66	14410.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.					
1	0530	67	13801.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.					
1	0535	68	13235.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.					
1	0540	69	12731.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.					
1	0545	70	12295.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.					
1	0550	71	11921.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.					
1	0555	72	11579.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.					
1	0600	73	11231.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.					
1	0605	74	10842.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.					
1	0610	75	10386.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.					

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
	(CFS)				
+ 16935.	4.92	6993.	1769.	1704.	1704.
	(INCHES)	1.188	1.202	1.202	1.202
	(AC-FT)	3468.	3509.	3509.	3509.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .58

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	0000		1	0.	1	0615		76	8602.	1	1230		151	0.	1	1845		226	0.
1	0005		2	0.	1	0620		77	8068.	1	1235		152	0.	1	1850		227	0.
1	0010		3	0.	1	0625		78	7474.	1	1240		153	0.	1	1855		228	0.
1	0015		4	0.	1	0630		79	6839.	1	1245		154	0.	1	1900		229	0.
1	0020		5	0.	1	0635		80	6188.	1	1250		155	0.	1	1905		230	0.
1	0025		6	2.	1	0640		81	5542.	1	1255		156	0.	1	1910		231	0.
1	0030		7	7.	1	0645		82	4924.	1	1300		157	0.	1	1915		232	0.
1	0035		8	14.	1	0650		83	4348.	1	1305		158	0.	1	1920		233	0.
1	0040		9	20.	1	0655		84	3823.	1	1310		159	0.	1	1925		234	0.
1	0045		10	22.	1	0700		85	3352.	1	1315		160	0.	1	1930		235	0.
1	0050		11	22.	1	0705		86	2931.	1	1320		161	0.	1	1935		236	0.
1	0055		12	23.	1	0710		87	2558.	1	1325		162	0.	1	1940		237	0.
1	0100		13	25.	1	0715		88	2225.	1	1330		163	0.	1	1945		238	0.
1	0105		14	28.	1	0720		89	1930.	1	1335		164	0.	1	1950		239	0.
1	0110		15	34.	1	0725		90	1667.	1	1340		165	0.	1	1955		240	0.
1	0115		16	43.	1	0730		91	1434.	1	1345		166	0.	1	2000		241	0.
1	0120		17	57.	1	0735		92	1227.	1	1350		167	0.	1	2005		242	0.
1	0125		18	75.	1	0740		93	1044.	1	1355		168	0.	1	2010		243	0.
1	0130		19	100.	1	0745		94	883.	1	1400		169	0.	1	2015		244	0.
1	0135		20	131.	1	0750		95	743.	1	1405		170	0.	1	2020		245	0.
1	0140		21	167.	1	0755		96	623.	1	1410		171	0.	1	2025		246	0.
1	0145		22	207.	1	0800		97	520.	1	1415		172	0.	1	2030		247	0.
1	0150		23	251.	1	0805		98	433.	1	1420		173	0.	1	2035		248	0.
1	0155		24	300.	1	0810		99	360.	1	1425		174	0.	1	2040		249	0.
1	0200		25	361.	1	0815		100	298.	1	1430		175	0.	1	2045		250	0.
1	0205		26	433.	1	0820		101	247.	1	1435		176	0.	1	2050		251	0.
1	0210		27	509.	1	0825		102	204.	1	1440		177	0.	1	2055		252	0.
1	0215		28	582.	1	0830		103	168.	1	1445		178	0.	1	2100		253	0.
1	0220		29	653.	1	0835		104	139.	1	1450		179	0.	1	2105		254	0.
1	0225		30	729.	1	0840		105	114.	1	1455		180	0.	1	2110		255	0.
1	0230		31	818.	1	0845		106	94.	1	1500		181	0.	1	2115		256	0.
1	0235		32	919.	1	0850		107	77.	1	1505		182	0.	1	2120		257	0.
1	0240		33	1027.	1	0855		108	63.	1	1510		183	0.	1	2125		258	0.
1	0245		34	1142.	1	0900		109	52.	1	1515		184	0.	1	2130		259	0.
1	0250		35	1268.	1	0905		110	42.	1	1520		185	0.	1	2135		260	0.
1	0255		36	1411.	1	0910		111	34.	1	1525		186	0.	1	2140		261	0.
1	0300		37	1573.	1	0915		112	27.	1	1530		187	0.	1	2145		262	0.
1	0305		38	1752.	1	0920		113	21.	1	1535		188	0.	1	2150		263	0.
1	0310		39	1950.	1	0925		114	17.	1	1540		189	0.	1	2155		264	0.
1	0315		40	2195.	1	0930		115	13.	1	1545		190	0.	1	2200		265	0.
1	0320		41	2483.	1	0935		116	10.	1	1550		191	0.	1	2205		266	0.
1	0325		42	2831.	1	0940		117	8.	1	1555		192	0.	1	2210		267	0.
1	0330		43	3308.	1	0945		118	6.	1	1600		193	0.	1	2215		268	0.
1	0335		44	3845.	1	0950		119	5.	1	1605		194	0.	1	2220		269	0.
1	0340		45	4217.	1	0955		120	3.	1	1610		195	0.	1	2225		270	0.
1	0345		46	4491.	1	1000		121	3.	1	1615		196	0.	1	2230		271	0.
1	0350		47	4907.	1	1005		122	2.	1	1620		197	0.	1	2235		272	0.

DA	MON	HRMN	ORD	FLOW		DA	MON	HRMN	ORD	FLOW		DA	MON	HRMN	ORD	FLOW		DA	MON	HRMN	ORD	FLOW
1	0355	48	5515.	*	1	1010	123	2.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	6201.	*	1	1015	124	1.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	6912.	*	1	1020	125	1.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	7672.	*	1	1025	126	1.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	8501.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	9384.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	10291.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	11210.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	12122.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	12971.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	13671.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	14188.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	14485.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	14502.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	14276.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	13914.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	13468.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	12964.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	12441.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	11933.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	11460.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	11038.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	10674.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	10362.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	10077.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	9785.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	9455.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	9064.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW				
		6-HR	24-HR	72-HR	24.92-HR	
+ (CFS)	(HR)					
		(CFS)				
+ 14502.	5.00	5952.	1503.	1448.	1448.	
		(INCHES)	1.011	1.021	1.021	1.021
		(AC-FT)	2951.	2981.	2981.	2981.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .53

DA	MON	HRMN	ORD	FLOW		DA	MON	HRMN	ORD	FLOW		DA	MON	HRMN	ORD	FLOW		DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	*	1	0615	76	7570.	*	1	1230	151	0.	*	1	1845	226	0.
1	0005	2	0.	*	1	0620	77	7105.	*	1	1235	152	0.	*	1	1850	227	0.
1	0010	3	0.	*	1	0625	78	6586.	*	1	1240	153	0.	*	1	1855	228	0.
1	0015	4	0.	*	1	0630	79	6029.	*	1	1245	154	0.	*	1	1900	229	0.
1	0020	5	0.	*	1	0635	80	5457.	*	1	1250	155	0.	*	1	1905	230	0.
1	0025	6	1.	*	1	0640	81	4890.	*	1	1255	156	0.	*	1	1910	231	0.
1	0030	7	3.	*	1	0645	82	4346.	*	1	1300	157	0.	*	1	1915	232	0.
1	0035	8	7.	*	1	0650	83	3839.	*	1	1305	158	0.	*	1	1920	233	0.
1	0040	9	11.	*	1	0655	84	3377.	*	1	1310	159	0.	*	1	1925	234	0.
1	0045	10	14.	*	1	0700	85	2961.	*	1	1315	160	0.	*	1	1930	235	0.
1	0050	11	15.	*	1	0705	86	2590.	*	1	1320	161	0.	*	1	1935	236	0.
1	0055	12	15.	*	1	0710	87	2261.	*	1	1325	162	0.	*	1	1940	237	0.
1	0100	13	15.	*	1	0715	88	1967.	*	1	1330	163	0.	*	1	1945	238	0.
1	0105	14	16.	*	1	0720	89	1707.	*	1	1335	164	0.	*	1	1950	239	0.
1	0110	15	17.	*	1	0725	90	1475.	*	1	1340	165	0.	*	1	1955	240	0.
1	0115	16	22.	*	1	0730	91	1268.	*	1	1345	166	0.	*	1	2000	241	0.
1	0120	17	28.	*	1	0735	92	1085.	*	1	1350	167	0.	*	1	2005	242	0.
1	0125	18	39.	*	1	0740	93	924.	*	1	1355	168	0.	*	1	2010	243	0.
1	0130	19	53.	*	1	0745	94	782.	*	1	1400	169	0.	*	1	2015	244	0.
1	0135	20	71.	*	1	0750	95	658.	*	1	1405	170	0.	*	1	2020	245	0.
1	0140	21	93.	*	1	0755	96	552.	*	1	1410	171	0.	*	1	2025	246	0.
1	0145	22	118.	*	1	0800	97	461.	*	1	1415	172	0.	*	1	2030	247	0.
1	0150	23	146.	*	1	0805	98	383.	*	1	1420	173	0.	*	1	2035	248	0.
1	0155	24	178.	*	1	0810	99	318.	*	1	1425	174	0.	*	1	2040	249	0.
1	0200	25	220.	*	1	0815	100	264.	*	1	1430	175	0.	*	1	2045	250	0.
1	0205	26	271.	*	1	0820	101	219.	*	1	1435	176	0.	*	1	2050	251	0.
1	0210	27	325.	*	1	0825	102	181.	*	1	1440	177	0.	*	1	2055	252	0.
1	0215	28	379.	*	1	0830	103	149.	*	1	1445	178	0.	*	1	2100	253	0.
1	0220	29	434.	*	1	0835	104	123.	*	1	1450	179	0.	*	1	2105	254	0.
1	0225	30	493.	*	1	0840	105	101.	*	1	1455	180	0.	*	1	2110	255	0.
1	0230	31	563.	*	1	0845	106	83.	*	1	1500	181	0.	*	1	2115	256	0.
1	0235	32	644.	*	1	0850	107	68.	*	1	1505	182	0.	*	1	2120	257	0.
1	0240	33	732.	*	1	0855	108	56.	*	1	1510	183	0.	*	1	2125	258	0.
1	0245	34	826.	*	1	0900	109	46.	*	1	1515	184	0.	*	1	2130	259	0.
1	0250	35	932.	*	1	0905	110	37.	*	1	1520	185	0.	*	1	2135	260	0.
1	0255	36	1051.	*	1	0910	111	30.	*	1	1525	186	0.	*	1	2140	261	0.
1	0300	37	1185.	*	1	0915	112	24.	*	1	1530	187	0.	*	1	2145	262	0.
1	0305	38	1336.	*	1	0920	113	19.	*	1	1535	188	0.	*	1	2150	263	0.
1	0310	39	1504.	*	1	0925	114	15.	*	1	1540	189	0.	*	1	2155	264	0.
1	0315	40	1712.	*	1	0930	115	12.	*	1	1545	190	0.	*	1	2200	265	0.
1	0320	41	1961.	*	1	0935	116	9.	*	1	1550	191	0.	*	1	2205	266	0.
1	0325	42	2261.	*	1	0940	117	7.	*	1	1555	192	0.	*	1	2210	267	0.
1	0330	43	2671.	*	1	0945	118	5.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	3134.	*	1	0950	119	4.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	3463.	*	1	0955	120	3.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	3706.	*	1	1000	121	2.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	4066.	*	1	1005	122	2.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	4590.	*	1	1010	123	1.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	5185.	*	1	1015	124	1.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	5798.	*	1	1020	125	1.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	6458.	*	1	1025	126	1.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	7179.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	7951.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	8745.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	9550.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	10352.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	11105.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	11733.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	12201.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	12480.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	12515.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	12342.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	12048.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	11679.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	11258.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	10820.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	10393.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	9996.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	9641.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	9336.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	9075.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	8835.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	8589.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	8308.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	7971.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW				
		6-HR	24-HR	72-HR	24.92-HR	
+ (CFS)	(HR)					
		(CFS)				
+ 12515.	5.00	5108.	1288.	1241.	1241.	
		(INCHES)	.868	.875	.875	.875
		(AC-FT)	2533.	2555.	2555.	2555.

CUMULATIVE AREA = 54.73 SQ MI

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227 KK     **************
           *            *
           *      RRDB  *
           *            *
           **************

240 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          1  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL          0.  HYDROGRAPH PLOT SCALE

              HYDROGRAPH ROUTING DATA

241 RS          STORAGE ROUTING
                     NSTPS          1  NUMBER OF SUBREACHES
                      ITYP       STOR  TYPE OF INITIAL CONDITION
                     RSVRIC      -1.00  INITIAL CONDITION
                          X        .00 WORKING R AND D COEFFICIENT

242 SV            STORAGE         .0      9.0     107.0     231.0     372.0     529.0     705.0     903.0    1125.0    1376.0
                                1659.0   1974.0    2007.0    2115.0    2331.0    2690.0    2933.0

244 SQ          DISCHARGE         0.      10.       57.       80.       99.      114.      128.      140.      151.      162.
                                171.     181.      182.     8654.    33270.   110918.   163477.

246 SE          ELEVATION      3161.00   3162.00   3167.00   3172.00   3177.00   3182.00   3187.00   3192.00   3197.00   3202.00
                               3207.00   3212.00   3212.50   3214.00   3217.00   3222.00   3225.00
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HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .83

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE		DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE		DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000	1	0.	.0	3161.0	3212.6	*	1	0820	101	589.	2012.2	3212.6	*	1	1640	201	178.	1894.1	3210.7
1	0005	2	0.	.0	3161.0	3212.6	*	1	0825	102	489.	2010.9	3212.6	*	1	1645	202	178.	1892.9	3210.7
1	0010	3	0.	.0	3161.0	3212.5	*	1	0830	103	406.	2009.9	3212.5	*	1	1650	203	178.	1891.7	3210.7

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| | | |

+ (AC-FT)	(HR)				
2213.	5.33	2061.	1680.	1618.	1618.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3215.36	5.33	3213.24	3205.38	3203.75	3203.75

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .73

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	3161.0	1		0820	101	497.	2011.0	3212.6	1		1640	201	178.	1893.1	3210.7
1		0005	2	0.	.0	3161.0	1		0825	102	413.	2009.9	3212.5	1		1645	202	178.	1891.9	3210.7
1		0010	3	0.	.0	3161.0	1		0830	103	343.	2009.1	3212.5	1		1650	203	178.	1890.7	3210.7
1		0015	4	0.	.0	3161.0	1		0835	104	284.	2008.3	3212.5	1		1655	204	178.	1889.5	3210.7
1		0020	5	0.	.0	3161.0	1		0840	105	235.	2007.7	3212.5	1		1700	205	178.	1888.2	3210.6
1		0025	6	0.	.0	3161.0	1		0845	106	194.	2007.2	3212.5	1		1705	206	178.	1887.0	3210.6
1		0030	7	0.	.2	3161.0	1		0850	107	182.	2006.6	3212.5	1		1710	207	178.	1885.8	3210.6
1		0035	8	1.	.5	3161.1	1		0855	108	182.	2006.0	3212.5	1		1715	208	178.	1884.5	3210.6
1		0040	9	1.	.8	3161.1	1		0900	109	182.	2005.3	3212.5	1		1720	209	178.	1883.3	3210.6
1		0045	10	1.	1.2	3161.1	1		0905	110	182.	2004.5	3212.5	1		1725	210	178.	1882.1	3210.5
1		0050	11	2.	1.6	3161.2	1		0910	111	182.	2003.6	3212.4	1		1730	211	178.	1880.9	3210.5
1		0055	12	2.	2.1	3161.2	1		0915	112	182.	2002.6	3212.4	1		1735	212	178.	1879.6	3210.5
1		0100	13	3.	2.7	3161.3	1		0920	113	182.	2001.6	3212.4	1		1740	213	178.	1878.4	3210.5
1		0105	14	4.	3.4	3161.4	1		0925	114	182.	2000.5	3212.4	1		1745	214	178.	1877.2	3210.5
1		0110	15	5.	4.2	3161.5	1		0930	115	182.	1999.4	3212.4	1		1750	215	178.	1876.0	3210.4
1		0115	16	6.	5.3	3161.6	1		0935	116	182.	1998.2	3212.4	1		1755	216	178.	1874.7	3210.4
1		0120	17	7.	6.6	3161.7	1		0940	117	182.	1997.1	3212.3	1		1800	217	178.	1873.5	3210.4
1		0125	18	9.	8.2	3161.9	1		0945	118	182.	1995.9	3212.3	1		1805	218	178.	1872.3	3210.4
1		0130	19	11.	10.3	3162.1	1		0950	119	182.	1994.7	3212.3	1		1810	219	178.	1871.1	3210.4
1		0135	20	12.	12.9	3162.2	1		0955	120	182.	1993.5	3212.3	1		1815	220	178.	1869.8	3210.3
1		0140	21	13.	16.2	3162.4	1		1000	121	182.	1992.2	3212.3	1		1820	221	178.	1868.6	3210.3
1		0145	22	15.	20.1	3162.6	1		1005	122	182.	1991.0	3212.3	1		1825	222	178.	1867.4	3210.3
1		0150	23	18.	24.7	3162.8	1		1010	123	181.	1989.8	3212.2	1		1830	223	178.	1866.2	3210.3
1		0155	24	20.	30.0	3163.1	1		1015	124	181.	1988.5	3212.2	1		1835	224	178.	1865.0	3210.3
1		0200	25	23.	36.1	3163.4	1		1020	125	181.	1987.3	3212.2	1		1840	225	177.	1863.7	3210.2
1		0205	26	26.	43.2	3163.7	1		1025	126	181.	1986.1	3212.2	1		1845	226	177.	1862.5	3210.2
1		0210	27	30.	51.1	3164.1	1		1030	127	181.	1984.8	3212.2	1		1850	227	177.	1861.3	3210.2
1		0215	28	34.	59.9	3164.6	1		1035	128	181.	1983.6	3212.1	1		1855	228	177.	1860.1	3210.2
1		0220	29	39.	69.5	3165.1	1		1040	129	181.	1982.3	3212.1	1		1900	229	177.	1858.8	3210.2
1		0225	30	44.	79.9	3165.6	1		1045	130	181.	1981.1	3212.1	1		1905	230	177.	1857.6	3210.2
1		0230	31	49.	91.1	3166.2	1		1050	131	181.	1979.8	3212.1	1		1910	231	177.	1856.4	3210.1
1		0235	32	55.	103.3	3166.8	1		1055	132	181.	1978.6	3212.1	1		1915	232	177.	1855.2	3210.1
1		0240	33	59.	116.4	3167.4	1		1100	133	181.	1977.3	3212.1	1		1920	233	177.	1854.0	3210.1
1		0245	34	61.	130.7	3168.0	1		1105	134	181.	1976.1	3212.0	1		1925	234	177.	1852.7	3210.1
1		0250	35	64.	146.3	3168.6	1		1110	135	181.	1974.8	3212.0	1		1930	235	177.	1851.5	3210.1
1		0255	36	67.	163.1	3169.3	1		1115	136	181.	1973.6	3212.0	1		1935	236	177.	1850.3	3210.0
1		0300	37	71.	181.5	3170.0	1		1120	137	181.	1972.3	3212.0	1		1940	237	177.	1849.1	3210.0
1		0305	38	75.	201.6	3170.8	1		1125	138	181.	1971.1	3212.0	1		1945	238	177.	1847.9	3210.0
1		0310	39	79.	223.5	3171.7	1		1130	139	181.	1969.9	3211.9	1		1950	239	177.	1846.6	3210.0
1		0315	40	82.	247.6	3172.6	1		1135	140	181.	1968.6	3211.9	1		1955	240	177.	1845.4	3210.0
1		0320	41	86.	274.3	3173.5	1		1140	141	181.	1967.4	3211.9	1		2000	241	177.	1844.2	3209.9
1		0325	42	90.	304.0	3174.6	1		1145	142	181.	1966.1	3211.9	1		2005	242	177.	1843.0	3209.9
1		0330	43	94.	337.7	3175.8	1		1150	143	181.	1964.9	3211.9	1		2010	243	177.	1841.8	3209.9
1		0335	44	99.	376.3	3177.1	1		1155	144	181.	1963.6	3211.8	1		2015	244	177.	1840.6	3209.9
1		0340	45	103.	419.1	3178.5	1		1200	145	181.	1962.4	3211.8	1		2020	245	177.	1839.3	3209.9
1		0345	46	108.	464.8	3180.0	1		1205	146	181.	1961.1	3211.8	1		2025	246	177.	1838.1	3209.8
1		0350	47	113.	513.9	3181.5	1		1210	147	181.	1959.9	3211.8	1		2030	247	177.	1836.9	3209.8
1		0355	48	117.	567.8	3183.1	1		1215	148	181.	1958.7	3211.8	1		2035	248	177.	1835.7	3209.8
1		0400	49	122.	627.9	3184.8	1		1220	149	180.	1957.4	3211.7	1		2040	249	177.	1834.5	3209.8
1		0405	50	127.	694.6	3186.7	1		1225	150	180.	1956.2	3211.7	1		2045	250	177.	1833.3	3209.8
1		0410	51	132.	768.4	3188.6	1		1230	151	180.	1954.9	3211.7	1		2050	251	176.	1832.0	3209.7
1		0415	52	137.	849.6	3190.7	1		1235	152	180.	1953.7	3211.7	1		2055	252	176.	1830.8	3209.7
1		0420	53	142.	939.0	3192.8	1		1240	153	180.	1952.4	3211.7	1		2100	253	176.	1829.6	3209.7
1		0425	54	147.	1036.9	3195.0	1		1245	154	180.	1951.2	3211.6	1		2105	254	176.	1828.4	3209.7
1		0430	55	152.	1143.3	3197.4	1		1250	155	180.	1950.0	3211.6	1		2110	255	176.	1827.2	3209.7
1		0435	56	157.	1258.1	3199.7	1		1255	156	180.	1948.7	3211.6	1		2115	256	176.	1826.0	3209.7
1		0440	57	162.	1381.0	3202.1	1		1300	157	180.	1947.5	3211.6	1		2120	257	176.	1824.7	3209.6
1		0445	58	166.	1511.0	3204.4	1		1305	158	180.	1946.2	3211.6	1		2125	258	176.	1823.5	3209.6
1		0450	59	171.	1646.2	3206.8	1		1310	159	180.	1945.0	3211.5	1		2130	259	176.	1822.3	3209.6
1		0455	60	175.	1784.8	3209.0	1		1315	160	180.	1943.8	3211.5	1		2135	260	176.	1821.1	3209.6
1		0500	61	179.	1924.3	3211.2	1		1320	161	180.	1942.5	3211.5	1		2140	261	176.	1819.9	3209.6
1		0505	62	3598.	2050.5	3213.1	1		1325	162	180.	1941.3	3211.5	1		2145	262	176.	1818.7	3209.5
1		0510	63	11054.	2136.1	3214.3	1		1330	163	180.	1940.0	3211.5	1		2150	263	176.	1817.5	3209.5
1		0515	64	15598.	2175.9	3214.8	1		1335	164	180.	1938.8	3211.4	1		2155	264	176.	1816.3	3209.5
1		0520	65	17174.	2189.8	3215.0	1		1340	165	180.	1937.6	3211.4	1		2200	265	176.	1815.0	3209.5
1		0525	66	17428.	2192.0	3215.1	1		1345	166	180.	1936.3	3211.4	1		2205	266	176.	1813.8	3209.5
1		0530	67	17105.	2189.2	3215.0	1		1350	167	180.	1935.1	3211.4	1		2210	267	176.	1812.6	3209.4
1		0535	68	16554.	2184.3	3215.0	1		1355	168	180.	1933.8	3211.4	1		2215	268	176.	1811.4	3209.4
1		0540	69	15939.	2178.9	3214.9	1		1400	169	180.	1932.6	3211.3	1		2220	269	176.	1810.2	3209.4
1		0545	70	15342.	2173.7	3214.8	1		1405	170	180.	1931.4	3211.3	1		2225	270	176.	1809.0	3209.4
1		0550	71	14798.	2168.9	3214.7	1		1410	171	180.	1930.1	3211.3	1		2230	271	176.	1807.8	3209.4
1		0555	72	14310.	2164.6	3214.7	1		1415	172	180.	1928.9	3211.3	1		2235	272	176.	1806.6	3209.3
1		0600	73	13857.	2160.7	3214.6	1		1420	173	180.	1927.7	3211.3	1		2240	273	176.	1805.4	3209.3
1		0605	74	13404.	2156.7	3214.6	1		1425	174	179.	1926.4	3211.2	1		2245	274	176.	1804.1	3209.3
1		0610	75	12917.	2152.4	3214.5	1		1430	175	179.	1925.2	3211.2	1		2250	275	176.	1802.9	3209.3
1		0615	76	12368.	2147.6	3214.5	1		1435	176	179.	1924.0	3211.2	1		2255	276	176.	1801.7	3209.3
1		0620	77	11739.	2142.1	3214.4	1		1440	177	179.	1922.7	3211.2	1		2300	277	175.	1800.5	3209.2
1		0625	78	11027.	2135.8	3214.3	1		1445	178	179.	1921.5	3211.2	1		2305	278	175.	1799.3	3209.2
1		0630	79	10244.	2129.0	3214.2	1		1450	179	179.	1920.2	3211.1	1		2310	279	175.	1798.1	3209.2
1		0635	80	9409.	2121.6	3214.1	1		1455	180	179.	1919.0	3211.1	1		2315	280	175.	1796.9	3209.2
1		0640	81	8574.	2114.0	3214.0	1		1500	181	179.	1917.8	3211.1	1		2320	281	175.	1795.7	3209.2
1		0645	82	7917.	2105.6	3213.9	1		1505	182	179.	1916.5	3211.1	1		2325	282	175.	1794.5	3209.2
1		0650	83	7196.	2096.4	3213.7	1		1510	183	179.	1915.3	3211.1	1		2330	283	175.	1793.3	3209.1
1		0655	84	6466.	2087.1	3213.6	1		1515	184	179.	1914.1	3211.0	1		2335	284	175.	1792.1	3209.1
1		0700	85	5761.	2078.1	3213.5	1		1520	185	179.	1912.8	3211.0	1		2340	285	175.	1790.9	3209.1
1		0705	86	5101.	2069.7	3213.4	1		1525	186	179.	1911.6	3211.0	1		2345	286	175.	1789.7	3209.1
1		0710	87	4494.	2062.0	3213.3	1		1530	187	179.	1910.4	3211.0	1		2350	287	175.	1788.4	3209.1
1		0715	88	3943.	2054.9	3213.2	1		1535	188	179.	1909.1	3211.0	1		2355	288	175.	1787.2	3209.0
1		0720	89	3447.	2048.6	3213.1	1		1540	189	179.	1907.9	3211.0	2		0000	289	175.	1786.0	3209.0
1		0725	90	3003.	2043.0	3213.0	1		1545	190	179.	1906.7	3210.9	2		0005	290	175.	1784.8	3209.0
1		0730	91	2607.	2037.9	3212.9	1		1550	191	179.	1905.4	3210.9	2		0010	291	175.	1783.6	3209.0
1		0735	92	2254.	2033.4	3212.9	1		1555	192	179.	1904.2	3210.9	2		0015	292	175.	1782.4	3209.0
1		0740	93	1940.	2029.4	3212.8	1		1600	193	179.	1903.0	3210.9	2		0020	293	175.	1781.2	3208.9
1		0745	94	1661.	2025.9	3212.8	1		1605	194	179.	1901.8	3210.9	2		0025	294	175.	1780.0	3208.9
1		0750	95	1416.	2022.7	3212.7	1		1610	195	179.	1900.5	3210.8	2		0030	295	175.	1778.8	3208.9
1		0755	96	1201.	2020.0	3212.7	1		1615	196	179.	1899.3	3210.8	2		0035	296	175.	1777.6	3208.9
1		0800	97	1015.	2017.6	3212.6	1		1620	197	179.	1898.1	3210.8	2		0040	297	175.	1776.4	3208.9
1		0805	98	853.	2015.6	3212.6	1		1625	198	179.	1896.8	3210.8	2		0045	298	175.	1775.2	3208.8
1		0810	99	715.	2013.8	3212.6	1		1630	199	179.	1895.6	3210.8	2		0050	299	175.	1774.0	3208.8
1		0815	100	597.	2012.3	3212.6	1		1635	200	178.	1894.4	3210.7	2		0055	300	175.	1772.8	3208.8

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
17428.	5.42	4596.	1265.	1218.	1218.
	(INCHES)	.781	.859	.859	.859
	(AC-FT)	2279.	2509.	2509.	2509.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
2192.	5.42	2052.	1669.	1608.	1608.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3215.07	5.42	3213.12	3205.12	3203.50	3203.50

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .69

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	3161.0	1		0820	101	472.	2010.7	3212.6	1		1640	201	178.	1892.9	3210.7
1		0005	2	0.	.0	3161.0	1		0825	102	392.	2009.7	3212.5	1		1645	202	178.	1891.6	3210.7
1		0010	3	0.	.0	3161.0	1		0830	103	325.	2008.8	3212.5	1		1650	203	178.	1890.4	3210.7
1		0015	4	0.	.0	3161.0	1		0835	104	269.	2008.1	3212.5	1		1655	204	178.	1889.2	3210.7
1		0020	5	0.	.0	3161.0	1		0840	105	223.	2007.5	3212.5	1		1700	205	178.	1887.9	3210.6
1		0025	6	0.	.0	3161.0	1		0845	106	184.	2007.0	3212.5	1		1705	206	178.	1886.7	3210.6
1		0030	7	0.	.1	3161.0	1		0850	107	182.	2006.5	3212.5	1		1710	207	178.	1885.5	3210.6
1		0035	8	0.	.4	3161.0	1		0855	108	182.	2005.9	3212.5	1		1715	208	178.	1884.3	3210.6
1		0040	9	1.	.7	3161.1	1		0900	109	182.	2005.1	3212.5	1		1720	209	178.	1883.0	3210.6
1		0045	10	1.	1.0	3161.1	1		0905	110	182.	2004.3	3212.5	1		1725	210	178.	1881.8	3210.5
1		0050	11	1.	1.3	3161.1	1		0910	111	182.	2003.3	3212.4	1		1730	211	178.	1880.6	3210.5
1		0055	12	2.	1.7	3161.2	1		0915	112	182.	2002.4	3212.4	1		1735	212	178.	1879.4	3210.5
1		0100	13	2.	2.2	3161.2	1		0920	113	182.	2001.3	3212.4	1		1740	213	178.	1878.1	3210.5
1		0105	14	3.	2.7	3161.3	1		0925	114	182.	2000.2	3212.4	1		1745	214	178.	1876.9	3210.5
1		0110	15	4.	3.4	3161.4	1		0930	115	182.	1999.1	3212.4	1		1750	215	178.	1875.7	3210.4
1		0115	16	5.	4.2	3161.5	1		0935	116	182.	1998.0	3212.4	1		1755	216	178.	1874.5	3210.4
1		0120	17	6.	5.3	3161.6	1		0940	117	182.	1996.8	3212.3	1		1800	217	178.	1873.2	3210.4
1		0125	18	7.	6.6	3161.7	1		0945	118	182.	1995.6	3212.3	1		1805	218	178.	1872.0	3210.4
1		0130	19	9.	8.3	3161.9	1		0950	119	182.	1994.4	3212.3	1		1810	219	178.	1870.8	3210.4
1		0135	20	11.	10.4	3162.1	1		0955	120	182.	1993.2	3212.3	1		1815	220	178.	1869.6	3210.3
1		0140	21	12.	13.1	3162.2	1		1000	121	182.	1991.9	3212.3	1		1820	221	178.	1868.3	3210.3
1		0145	22	14.	16.3	3162.4	1		1005	122	182.	1990.7	3212.3	1		1825	222	178.	1867.1	3210.3
1		0150	23	15.	20.1	3162.6	1		1010	123	181.	1989.5	3212.2	1		1830	223	178.	1865.9	3210.3
1		0155	24	17.	24.6	3162.8	1		1015	124	181.	1988.2	3212.2	1		1835	224	178.	1864.7	3210.3
1		0200	25	20.	29.8	3163.1	1		1020	125	181.	1987.0	3212.2	1		1840	225	177.	1863.4	3210.2
1		0205	26	23.	35.7	3163.4	1		1025	126	181.	1985.8	3212.2	1		1845	226	177.	1862.2	3210.2
1		0210	27	26.	42.5	3163.7	1		1030	127	181.	1984.5	3212.2	1		1850	227	177.	1861.0	3210.2
1		0215	28	30.	50.1	3164.1	1		1035	128	181.	1983.3	3212.1	1		1855	228	177.	1859.8	3210.2
1		0220	29	34.	58.5	3164.5	1		1040	129	181.	1982.0	3212.1	1		1900	229	177.	1858.6	3210.2
1		0225	30	38.	67.5	3165.0	1		1045	130	181.	1980.8	3212.1	1		1905	230	177.	1857.3	3210.1
1		0230	31	43.	77.3	3165.5	1		1050	131	181.	1979.5	3212.1	1		1910	231	177.	1856.1	3210.1
1		0235	32	48.	88.0	3166.0	1		1055	132	181.	1978.3	3212.1	1		1915	232	177.	1854.9	3210.1
1		0240	33	54.	99.7	3166.6	1		1100	133	181.	1977.0	3212.0	1		1920	233	177.	1853.7	3210.1
1		0245	34	58.	112.4	3167.2	1		1105	134	181.	1975.8	3212.0	1		1925	234	177.	1852.4	3210.1
1		0250	35	61.	126.3	3167.8	1		1110	135	181.	1974.5	3212.0	1		1930	235	177.	1851.2	3210.1

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DA MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0730	91	2222.	2033.0	3212.9	1	1550	191	179.	1904.5	3210.9	2	0010	291	175.	1782.7	3209.0
1	0735	92	1921.	2029.2	3212.8	1	1555	192	179.	1903.3	3210.9	2	0015	292	175.	1781.5	3208.9
1	0740	93	1654.	2025.8	3212.8	1	1600	193	179.	1902.0	3210.9	2	0020	293	175.	1780.3	3208.9
1	0745	94	1417.	2022.7	3212.7	1	1605	194	179.	1900.8	3210.8	2	0025	294	175.	1779.1	3208.9
1	0750	95	1208.	2020.1	3212.7	1	1610	195	179.	1899.6	3210.8	2	0030	295	175.	1777.9	3208.9
1	0755	96	1025.	2017.7	3212.6	1	1615	196	179.	1898.4	3210.8	2	0035	296	175.	1776.7	3208.9
1	0800	97	865.	2015.7	3212.6	1	1620	197	179.	1897.1	3210.8	2	0040	297	175.	1775.5	3208.8
1	0805	98	728.	2014.0	3212.6	1	1625	198	179.	1895.9	3210.8	2	0045	298	175.	1774.3	3208.8
1	0810	99	610.	2012.5	3212.6	1	1630	199	178.	1894.7	3210.7	2	0050	299	175.	1773.1	3208.8
1	0815	100	510.	2011.2	3212.6	1	1635	200	178.	1893.4	3210.7	2	0055	300	175.	1771.9	3208.8

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 12338.	5.75		3048.	876.	844.	844.
		(INCHES)	.518	.595	.595	.595
		(AC-FT)	1511.	1737.	1737.	1737.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
2147.	5.75	2034.	1644.	1583.	1583.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3214.45	5.75	3212.87	3204.51	3202.91	3202.91

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .58

DA MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000	1	0.	.0	3161.0	1	0820	101	373.	2009.4	3212.5	1	1640	201	178.	1891.5	3210.7
1	0005	2	0.	.0	3161.0	1	0825	102	310.	2008.6	3212.5	1	1645	202	178.	1890.2	3210.7
1	0010	3	0.	.0	3161.0	1	0830	103	257.	2008.0	3212.5	1	1650	203	178.	1889.0	3210.7
1	0015	4	0.	.0	3161.0	1	0835	104	213.	2007.4	3212.5	1	1655	204	178.	1887.8	3210.6
1	0020	5	0.	.0	3161.0	1	0840	105	182.	2006.9	3212.5	1	1700	205	178.	1886.5	3210.6
1	0025	6	0.	.0	3161.0	1	0845	106	182.	2006.4	3212.5	1	1705	206	178.	1885.3	3210.6
1	0030	7	0.	.0	3161.0	1	0850	107	182.	2005.7	3212.5	1	1710	207	178.	1884.1	3210.6
1	0035	8	0.	.1	3161.0	1	0855	108	182.	2004.9	3212.5	1	1715	208	178.	1882.9	3210.6
1	0040	9	0.	.2	3161.0	1	0900	109	182.	2004.1	3212.5	1	1720	209	178.	1881.6	3210.5
1	0045	10	0.	.4	3161.0	1	0905	110	182.	2003.2	3212.4	1	1725	210	178.	1880.4	3210.5
1	0050	11	1.	.5	3161.1	1	0910	111	182.	2002.2	3212.4	1	1730	211	178.	1879.2	3210.5
1	0055	12	1.	.7	3161.1	1	0915	112	182.	2001.1	3212.4	1	1735	212	178.	1878.0	3210.5
1	0100	13	1.	.8	3161.1	1	0920	113	182.	2000.0	3212.4	1	1740	213	178.	1876.7	3210.5
1	0105	14	1.	1.0	3161.1	1	0925	114	182.	1998.9	3212.4	1	1745	214	178.	1875.5	3210.4
1	0110	15	1.	1.2	3161.1	1	0930	115	182.	1997.8	3212.4	1	1750	215	178.	1874.3	3210.4
1	0115	16	2.	1.5	3161.2	1	0935	116	182.	1996.6	3212.3	1	1755	216	178.	1873.1	3210.4
1	0120	17	2.	1.8	3161.2	1	0940	117	182.	1995.4	3212.3	1	1800	217	178.	1871.8	3210.4
1	0125	18	2.	2.2	3161.2	1	0945	118	182.	1994.2	3212.3	1	1805	218	178.	1870.6	3210.4
1	0130	19	3.	2.8	3161.3	1	0950	119	182.	1993.0	3212.3	1	1810	219	178.	1869.4	3210.3
1	0135	20	4.	3.6	3161.4	1	0955	120	182.	1991.8	3212.3	1	1815	220	178.	1868.2	3210.3
1	0140	21	5.	4.6	3161.5	1	1000	121	182.	1990.5	3212.3	1	1820	221	178.	1866.9	3210.3
1	0145	22	6.	5.8	3161.6	1	1005	122	181.	1989.3	3212.2	1	1825	222	178.	1865.7	3210.3
1	0150	23	8.	7.4	3161.8	1	1010	123	181.	1988.1	3212.2	1	1830	223	178.	1864.5	3210.3
1	0155	24	10.	9.2	3162.0	1	1015	124	181.	1986.8	3212.2	1	1835	224	177.	1863.3	3210.2
1	0200	25	11.	11.4	3162.1	1	1020	125	181.	1985.6	3212.2	1	1840	225	177.	1862.0	3210.2
1	0205	26	12.	14.0	3162.3	1	1025	126	181.	1984.3	3212.2	1	1845	226	177.	1860.8	3210.2
1	0210	27	14.	17.2	3162.4	1	1030	127	181.	1983.1	3212.1	1	1850	227	177.	1859.6	3210.2
1	0215	28	16.	20.9	3162.6	1	1035	128	181.	1981.8	3212.1	1	1855	228	177.	1858.4	3210.2
1	0220	29	18.	25.0	3162.8	1	1040	129	181.	1980.6	3212.1	1	1900	229	177.	1857.2	3210.1
1	0225	30	20.	29.6	3163.1	1	1045	130	181.	1979.4	3212.1	1	1905	230	177.	1855.9	3210.1
1	0230	31	22.	34.8	3163.3	1	1050	131	181.	1978.1	3212.1	1	1910	231	177.	1854.7	3210.1
1	0235	32	25.	40.6	3163.6	1	1055	132	181.	1976.9	3212.0	1	1915	232	177.	1853.5	3210.1
1	0240	33	28.	47.1	3163.9	1	1100	133	181.	1975.6	3212.0	1	1920	233	177.	1852.3	3210.1
1	0245	34	32.	54.4	3164.3	1	1105	134	181.	1974.4	3212.0	1	1925	234	177.	1851.1	3210.0
1	0250	35	36.	62.5	3164.7	1	1110	135	181.	1973.1	3212.0	1	1930	235	177.	1849.8	3210.0
1	0255	36	40.	71.4	3165.2	1	1115	136	181.	1971.9	3212.0	1	1935	236	177.	1848.6	3210.0
1	0300	37	45.	81.4	3165.7	1	1120	137	181.	1970.6	3211.9	1	1940	237	177.	1847.4	3210.0
1	0305	38	50.	92.5	3166.3	1	1125	138	181.	1969.4	3211.9	1	1945	238	177.	1846.2	3210.0
1	0310	39	56.	104.9	3166.9	1	1130	139	181.	1968.1	3211.9	1	1950	239	177.	1845.0	3210.0
1	0315	40	59.	118.8	3167.5	1	1135	140	181.	1966.9	3211.9	1	1955	240	177.	1843.7	3209.9
1	0320	41	62.	134.5	3168.1	1	1140	141	181.	1965.6	3211.9	1	2000	241	177.	1842.5	3209.9
1	0325	42	65.	152.3	3168.8	1	1145	142	181.	1964.4	3211.8	1	2005	242	177.	1841.3	3209.9
1	0330	43	69.	173.0	3169.7	1	1150	143	181.	1963.2	3211.8	1	2010	243	177.	1840.1	3209.9
1	0335	44	74.	197.2	3170.6	1	1155	144	181.	1961.9	3211.8	1	2015	244	177.	1838.9	3209.9
1	0340	45	79.	224.4	3171.7	1	1200	145	181.	1960.7	3211.8	1	2020	245	177.	1837.7	3209.8
1	0345	46	83.	253.8	3172.8	1	1205	146	181.	1959.4	3211.8	1	2025	246	177.	1836.4	3209.8
1	0350	47	87.	285.6	3173.9	1	1210	147	180.	1958.2	3211.7	1	2030	247	177.	1835.2	3209.8
1	0355	48	92.	320.9	3175.2	1	1215	148	180.	1956.9	3211.7	1	2035	248	177.	1834.0	3209.8
1	0400	49	97.	360.6	3176.6	1	1220	149	180.	1955.7	3211.7	1	2040	249	177.	1832.8	3209.8
1	0405	50	102.	405.0	3178.1	1	1225	150	180.	1954.5	3211.7	1	2045	250	176.	1831.6	3209.7
1	0410	51	107.	454.5	3179.6	1	1230	151	180.	1953.2	3211.7	1	2050	251	176.	1830.4	3209.7
1	0415	52	112.	509.5	3181.4	1	1235	152	180.	1952.0	3211.7	1	2055	252	176.	1829.1	3209.7
1	0420	53	117.	570.3	3183.2	1	1240	153	180.	1950.7	3211.6	1	2100	253	176.	1827.9	3209.7
1	0425	54	123.	637.2	3185.1	1	1245	154	180.	1949.5	3211.6	1	2105	254	176.	1826.7	3209.7
1	0430	55	128.	710.4	3187.1	1	1250	155	180.	1948.2	3211.6	1	2110	255	176.	1825.5	3209.6
1	0435	56	133.	789.8	3189.1	1	1255	156	180.	1947.0	3211.6	1	2115	256	176.	1824.3	3209.6
1	0440	57	138.	875.3	3191.3	1	1300	157	180.	1945.8	3211.6	1	2120	257	176.	1823.1	3209.6
1	0445	58	143.	966.1	3193.4	1	1305	158	180.	1944.5	3211.5	1	2125	258	176.	1821.9	3209.6
1	0450	59	148.	1061.0	3195.6	1	1310	159	180.	1943.3	3211.5	1	2130	259	176.	1820.6	3209.6
1	0455	60	152.	1158.7	3197.7	1	1315	160	180.	1942.0	3211.5	1	2135	260	176.	1819.4	3209.5
1	0500	61	157.	1257.4	3199.6	1	1320	161	180.	1940.8	3211.5	1	2140	261	176.	1818.2	3209.5
1	0505	62	161.	1355.4	3201.6	1	1325	162	180.	1939.6	3211.5	1	2145	262	176.	1817.0	3209.5
1	0510	63	164.	1451.4	3203.3	1	1330	163	180.	1938.3	3211.4	1	2150	263	176.	1815.8	3209.5
1	0515	64	167.	1544.5	3205.0	1	1335	164	180.	1937.1	3211.4	1	2155	264	176.	1814.6	3209.5
1	0520	65	170.	1634.4	3206.6	1	1340	165	180.	1935.9	3211.4	1	2200	265	176.	1813.4	3209.5
1	0525	66	173.	1720.7	3208.0	1	1345	166	180.	1934.6	3211.4	1	2205	266	176.	1812.2	3209.4
1	0530	67	176.	1803.4	3209.3	1	1350	167	180.	1933.4	3211.4	1	2210	267	176.	1811.0	3209.4
1	0535	68	178.	1882.8	3210.6	1	1355	168	180.	1932.1	3211.3	1	2215	268	176.	1809.7	3209.4
1	0540	69	181.	1959.0	3211.8	1	1400	169	180.	1930.9	3211.3	1	2220	269	176.	1808.5	3209.4
1	0545	70	1758.	2027.1	3212.8	1	1405	170	180.	1929.7	3211.3	1	2225	270	176.	1807.3	3209.4
1	0550	71	5484.	2074.6	3213.4	1	1410	171	180.	1928.4	3211.3	1	2230	271	176.	1806.1	3209.3
1	0555	72	7499.	2100.3	3213.8	1	1415	172	180.	1927.2	3211.3	1	2235	272	176.	1804.9	3209.3
1	0600	73	8533.	2113.5	3214.0	1	1420	173	179.	1926.0	3211.2	1	2240	273	176.	1803.7	3209.3
1	0605	74	9107.	2119.0	3214.1	1	1425	174	179.	1924.7	3211.2	1	2245	274	176.	1802.5	3209.3
1	0610	75	9193.	2119.7	3214.1	1	1430	175	179.	1923.5	3211.2	1	2250	275	176.	1801.3	3209.3
1	0615	76	8990.	2117.9	3214.0	1	1435	176	179.	1922.2	3211.2	1	2255	276	175.	1800.1	3209.2
1	0620	77	8629.	2114.7	3214.0	1	1440	177	179.	1921.0	3211.2	1	2300	277	175.	1798.9	3209.2
1	0625	78	8264.	2110.0	3213.9	1	1445	178	179.	1919.8	3211.1	1	2305	278	175.	1797.6	3209.2
1	0630	79	7793.	2104.0	3213.8	1	1450	179	179.	1918.5	3211.1	1	2310	279	175.	1796.4	3209.2
1	0635	80	7249.	2097.1	3213.8	1	1455	180	179.	1917.3	3211.1	1	2315	280	175.	1795.2	3209.2
1	0640	81	6660.	2089.6	3213.6	1	1500	181	179.	1916.1	3211.1	1	2320	281	175.	1794.0	3209.1
1	0645	82	6053.	2081.8	3213.5	1	1505	182	179.	1914.8	3211.1	1	2325	282	175.	1792.8	3209.1
1	0650	83	5450.	2074.2	3213.4	1	1510	183	179.	1913.6	3211.0	1	2330	283	175.	1791.6	3209.1
1	0655	84	4870.	2066.8	3213.3	1	1515	184	179.	1912.4	3211.0	1	2335	284	175.	1790.4	3209.1
1	0700	85	4325.	2059.8	3213.2	1	1520	185	179.	1911.1	3211.0	1	2340	285	175.	1789.2	3209.1
1	0705	86	3821.	2053.4	3213.1	1	1525	186	179.	1909.9	3211.0	1	2345	286	175.	1788.0	3209.0
1	0710	87	3363.	2047.6	3213.1	1	1530	187	179.	1908.7	3211.0	1	2350	287	175.	1786.8	3209.0
1	0715	88	2950.	2042.3	3213.0	1	1535	188	179.	1907.4	3210.9	1	2355	288	175.	1785.6	3209.0
1	0720	89	2579.	2037.6	3212.9	1	1540	189	179.	1906.2	3210.9	2	0000	289	175.	1784.4	3209.0
1	0725	90	2247.	2033.3	3212.9	1	1545	190	179.	1905.0	3210.9	2	0005	290	175.	1783.2	3209.0
1	0730	91	1951.	2029.5	3212.8	1	1550	191	179.	1903.7	3210.9	2	0010	291	175.	1782.0	3209.0
1	0735	92	1687.	2026.2	3212.8	1	1555	192	179.	1902.5	3210.9	2	0015	292	175.	1780.8	3208.9
1	0740	93	1452.	2023.2	3212.7	1	1600	193	179.	1901.3	3210.8	2	0020	293	175.	1779.6	3208.9
1	0745	94	1244.	2020.5	3212.7	1	1605	194	179.	1900.1	3210.8	2	0025	294	175.	1778.4	3208.9
1	0750	95	1061.	2018.2	3212.7	1	1610	195	179.	1898.8	3210.8	2	0030	295	175.	1777.1	3208.9
1	0755	96	900.	2016.2	3212.6	1	1615	196	179.	1897.6	3210.8	2	0035	296	175.	1775.9	3208.9
1	0800	97	760.	2014.4	3212.6	1	1620	197	179.	1896.4	3210.8	2	0040	297	175.	1774.7	3208.8
1	0805	98	640.	2012.8	3212.6	1	1625	198	178.	1895.1	3210.7	2	0045	298	175.	1773.5	3208.8
1	0810	99	536.	2011.5	3212.6	1	1630	199	178.	1893.9	3210.7	2	0050	299	175.	1772.3	3208.8
1	0815	100	448.	2010.4	3212.5	1	1635	200	178.	1892.7	3210.7	2	0055	300	175.	1771.1	3208.8

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 9193.	6.17		1991.	610.	588.	588.
		(INCHES)	.338	.415	.415	.415
		(AC-FT)	987.	1210.	1210.	1210.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
2120.	6.17	2020.	1622.	1562.	1562.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3214.07	6.17	3212.67	3204.01	3202.43	3202.43

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .53

DA MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000	1	0.	.0	3161.0	1	0820	101	331.	2008.9	3212.5	1	1640	201	178.	1890.7	3210.7
1	0005	2	0.	.0	3161.0	1	0825	102	275.	2008.2	3212.5	1	1645	202	178.	1889.5	3210.7
1	0010	3	0.	.0	3161.0	1	0830	103	228.	2007.6	3212.5	1	1650	203	178.	1888.3	3210.6
1	0015	4	0.	.0	3161.0	1	0835	104	189.	2007.1	3212.5	1	1655	204	178.	1887.0	3210.6
1	0020	5	0.	.0	3161.0	1	0840	105	182.	2006.6	3212.5	1	1700	205	178.	1885.8	3210.6
1	0025	6	0.	.0	3161.0	1	0845	106	182.	2006.0	3212.5	1	1705	206	178.	1884.6	3210.6
1	0030	7	0.	.0	3161.0	1	0850	107	182.	2005.2	3212.5	1	1710	207	178.	1883.4	3210.6
1	0035	8	0.	.0	3161.0	1	0855	108	182.	2004.4	3212.5	1	1715	208	178.	1882.1	3210.5
1	0040	9	0.	.1	3161.0	1	0900	109	182.	2003.5	3212.4	1	1720	209	178.	1880.9	3210.5
1	0045	10	0.	.2	3161.0	1	0905	110	182.	2002.5	3212.4	1	1725	210	178.	1879.7	3210.5
1	0050	11	0.	.3	3161.0	1	0910	111	182.	2001.5	3212.4	1	1730	211	178.	1878.4	3210.5
1	0055	12	0.	.4	3161.0	1	0915	112	182.	2000.5	3212.4	1	1735	212	178.	1877.2	3210.5

| | | |

				TIME	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
HYDROGRAPH AT												
+	RD1	.43	1	FLOW	382.	363.	338.	311.	292.	256.	218.	187.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
ROUTED TO												
+	R-RD1	.43	1	FLOW	367.	349.	324.	299.	281.	247.	210.	179.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT												
+	RD2	.47	1	FLOW	502.	481.	452.	422.	399.	358.	313.	275.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT												
+	CRD2	.90	1	FLOW	857.	818.	760.	707.	664.	590.	508.	440.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
ROUTED TO												
+	RCRD2	.90	1	FLOW	806.	775.	724.	674.	630.	562.	487.	423.
				TIME	3.58	3.67	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT												
+	RD3	.33	1	FLOW	332.	318.	298.	277.	262.	233.	203.	178.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT												
+	CRD3	1.23	1	FLOW	1138.	1088.	1014.	940.	882.	783.	675.	583.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT												
+	RR14A	4.60	1	FLOW	2506.	2386.	2221.	2052.	1927.	1700.	1456.	1256.
				TIME	4.08	4.08	4.08	4.17	4.17	4.17	4.17	4.17
ROUTED TO												
+	R-RR14A	4.60	1	FLOW	2502.	2383.	2219.	2051.	1926.	1698.	1453.	1253.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
HYDROGRAPH AT												
+	RD4	.40	1	FLOW	346.	329.	304.	280.	261.	228.	193.	164.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT												
+	CRD4	5.00	1	FLOW	2589.	2466.	2293.	2119.	1988.	1752.	1500.	1293.
				TIME	4.08	4.08	4.08	4.08	4.08	4.17	4.17	4.17
ROUTED TO												
+	RCRD4	5.00	1	FLOW	2581.	2459.	2289.	2115.	1986.	1750.	1497.	1290.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
HYDROGRAPH AT												
+	RD5	.37	1	FLOW	332.	315.	293.	270.	253.	222.	188.	161.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT												
+	CRD5	5.37	1	FLOW	2664.	2536.	2359.	2177.	2042.	1798.	1538.	1325.
				TIME	4.08	4.08	4.08	4.08	4.08	4.08	4.17	4.17
ROUTED TO												
+	RCRD5	5.37	1	FLOW	2655.	2531.	2354.	2174.	2042.	1802.	1539.	1322.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
HYDROGRAPH AT												
+	RD6	.25	1	FLOW	252.	241.	225.	210.	198.	176.	153.	134.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT												
+	CRD6	5.62	1	FLOW	2714.	2585.	2406.	2218.	2082.	1838.	1570.	1349.
				TIME	4.08	4.08	4.08	4.08	4.08	4.17	4.17	4.17
3 COMBINED AT												
+	INRR	54.73	1	FLOW	24977.	23793.	22146.	20465.	19213.	16935.	14502.	12515.
				TIME	4.92	4.92	4.92	4.92	4.92	4.92	5.00	5.00
ROUTED TO												
+	RRDB	54.73	1	FLOW	23616.	22061.	19789.	17428.	15628.	12338.	9193.	6068.
				TIME	5.17	5.25	5.33	5.42	5.50	5.75	6.17	6.50
				** PEAK STAGES IN FEET **								
			1	STAGE	3215.82	3215.63	3215.36	3215.07	3214.85	3214.45	3214.07	3213.54
				TIME	5.17	5.25	5.33	5.42	5.50	5.75	6.17	6.50
DIVERSION TO												
+	*D-RROUT	54.73	1	FLOW	23434.	21879.	19607.	17246.	15446.	12156.	9011.	5886.
				TIME	5.17	5.25	5.33	5.42	5.50	5.75	6.17	6.50
HYDROGRAPH AT												
+	*DOUTRR	54.73	1	FLOW	182.	182.	182.	182.	182.	182.	182.	182.
				TIME	4.83	4.92	5.00	5.08	5.17	5.42	5.75	6.17
ROUTED TO												
+	ROUTRR	54.73	1	FLOW	182.	182.	182.	182.	182.	182.	182.	182.
				TIME	4.92	5.00	5.08	5.25	5.33	5.58	5.92	6.33

HYDROGRAPH AT											
+	R3A	.19	1	FLOW	157.	149.	137.	125.	117.	101.	84.	71.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
2 COMBINED AT												
+	CR3A	54.92	1	FLOW	263.	254.	244.	234.	226.	210.	192.	182.
				TIME	3.50	4.83	4.83	4.83	4.83	4.83	4.83	6.33
ROUTED TO												
+	RCR3A	54.92	1	FLOW	258.	250.	240.	230.	223.	207.	190.	182.
				TIME	3.67	4.92	4.92	4.92	4.92	5.00	5.00	6.42

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*** NORMAL END OF HEC-1 ***

B.3.15 100-year_RED_ROCK_TRAIL

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1****************************************
 *                                      *
 *   FLOOD HYDROGRAPH PACKAGE  (HEC-1)  *
 *              JUN   1998              *
 *            VERSION 4.1               *
 *                                      *
 *  RUN DATE   28JUL20  TIME  08:50:42  *
 *                                      *
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*                                  *
*    U.S. ARMY CORPS OF ENGINEERS  *
*    HYDROLOGIC ENGINEERING CENTER *
*          609 SECOND STREET       *
*       DAVIS, CALIFORNIA 95616    *
*           (916) 756-1104         *
*                                  *
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X     X  XXXXXXX   XXXXX          X
X     X  X        X     X        XX
X     X  X        X              X
XXXXXXX  XXXX     X        XXXXX  X
X     X  X        X              X
X     X  X        X     X        X
X     X  XXXXXXX   XXXXX         XXX
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THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL   LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

1 HEC-1 INPUT PAGE 1

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          LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

                        *DIAGRAM
 *** FREE ***
               1        ID   RED ROCK TRAIL TO FY19-87
               2        ID   US FEDERAL HIGHWAY ADMINISTRATION
               3        ID   PN WXXY4000
               4        ID
               5        ID   FLAMINGO / TROPICANA WASHES WATERSHED
               6        ID   INPUT FILE = RED_ROCK_TRAILS_100YR.DAT
               7        ID   INPUT FILE DATE = JULY 2020
               8        ID   PRECIPITATION VALUES TAKEN FROM NOAA ATLAS 2 &
               9        ID   ADJUSTED PER CCRFCD HYDRAULIC CRITERIA & DRAINAGE DESIGN MANUAL TABLE 501
              10        ID   DESIGN STORM = 100-YEAR, 6-HOUR STORM
              11        ID   STORM DISTRIBUTION = SDN3
              12        ID     MODELED BY JACOBS/CH2M (JAMES MONROE AND CESAR BRAMBILA)
              13        ID
              14        ID     JR CARDS CONTAIN DARFS BASED ON THE FOLLOWING VALUES:
              15        ID
              16        ID     AREA (SQUARE MILES)    DARF
              17        ID
              18        ID           0.5 - 1              0.975
              19        ID           4 - 5                0.908
              20        ID
              21        ID
              22        IT       5       0       0     550
              23        IO       5       0       0
              24        IN       5       0       0
              25        JR    PREC   0.975   0.908
                        *
              26        KK   SUB-A
              27        BA   4.567
              28        PB    3.75
              29        PC   0.000   0.020   0.057   0.070   0.087   0.108   0.124   0.130   0.130   0.130
              30        PC   0.130   0.130   0.130   0.133   0.140   0.142   0.148   0.158   0.172   0.181
              31        PC   0.190   0.197   0.199   0.200   0.201   0.204   0.214   0.229   0.241   0.249
              32        PC   0.251   0.256   0.270   0.278   0.281   0.283   0.295   0.322   0.352   0.409
              33        PC   0.499   0.590   0.710   0.744   0.781   0.812   0.819   0.835   0.851   0.856
              34        PC   0.860   0.868   0.876   0.888   0.910   0.926   0.937   0.950   0.970   0.976
              35        PC   0.982   0.985   0.987   0.989   0.990   0.993   0.993   0.994   0.995   0.998
              36        PC   0.998   0.999   1.000
              37        LS       0    87.3
              38        UD   1.043
                        *
              39        KK   SUB-B
              40        BA   0.675
              41        PB    3.50
              42        LS       0    85.0
              43        UD   0.435
                        *
              44        ZZ
```

1 SCHEMATIC DIAGRAM OF STREAM NETWORK

```
 INPUT
  LINE      (V) ROUTING          (--->) DIVERSION OR PUMP FLOW

    NO.      (.) CONNECTOR        (<---) RETURN OF DIVERTED OR PUMPED FLOW

     26       SUB-A
                 .
                 .
     39          .       SUB-B
```

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

```
1****************************************
 *                                      *
 *   FLOOD HYDROGRAPH PACKAGE  (HEC-1)  *
 *              JUN   1998              *
 *            VERSION 4.1               *
 *                                      *
 *  RUN DATE   28JUL20  TIME  08:50:42  *
 *                                      *
 ****************************************
```

```
************************************
*                                  *
*    U.S. ARMY CORPS OF ENGINEERS  *
*    HYDROLOGIC ENGINEERING CENTER *
*          609 SECOND STREET       *
*       DAVIS, CALIFORNIA 95616    *
*           (916) 756-1104         *
*                                  *
************************************
```

RED ROCK TRAIL TO FY19-87
US FEDERAL HIGHWAY ADMINISTRATION
PN WXXY4000

FLAMINGO / TROPICANA WASHES WATERSHED
INPUT FILE = RED_ROCK_TRAILS_100YR.DAT
INPUT FILE DATE = JULY 2020
PRECIPITATION VALUES TAKEN FROM NOAA ATLAS 2 &
ADJUSTED PER CCRFCD HYDRAULIC CRITERIA & DRAINAGE DESIGN MANUAL TABLE 501
DESIGN STORM = 100-YEAR, 6-HOUR STORM
STORM DISTRIBUTION = SDN3
  MODELED BY JACOBS/CH2M (JAMES MONROE AND CESAR BRAMBILA)

  JR CARDS CONTAIN DARFS BASED ON THE FOLLOWING VALUES:

  AREA (SQUARE MILES)   DARF

        0.5 - 1   0.975
        4 - 5   0.908

```
23 IO          OUTPUT CONTROL VARIABLES
                     IPRNT          5  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL          0.  HYDROGRAPH PLOT SCALE

   IT          HYDROGRAPH TIME DATA
                     NMIN           5  MINUTES IN COMPUTATION INTERVAL
                     IDATE      1   0  STARTING DATE
                     ITIME       0000  STARTING TIME
                     NQ           550  NUMBER OF HYDROGRAPH ORDINATES
                     NDDATE     2   0  ENDING DATE
                     NDTIME       2145  ENDING TIME
                     ICENT          19  CENTURY MARK

                COMPUTATION INTERVAL     .08 HOURS
                   TOTAL TIME BASE   45.75 HOURS

              ENGLISH UNITS
                   DRAINAGE AREA         SQUARE MILES
                   PRECIPITATION DEPTH   INCHES
                   LENGTH, ELEVATION     FEET
                   FLOW                  CUBIC FEET PER SECOND
                   STORAGE VOLUME        ACRE-FEET
                   SURFACE AREA          ACRES
                   TEMPERATURE           DEGREES FAHRENHEIT

   JP          MULTI-PLAN OPTION
                   NPLAN          1  NUMBER OF PLANS

   JR          MULTI-RATIO OPTION
                   RATIOS OF PRECIPITATION
                   .98       .91
```

1 PEAK FLOW AND STAGE (END-OF-PERIOD) SUMMARY FOR MULTIPLE PLAN-RATIO ECONOMIC COMPUTATIONS
FLOWS IN CUBIC FEET PER SECOND, AREA IN SQUARE MILES
TIME TO PEAK IN HOURS

					RATIOS APPLIED TO PRECIPITATION	
OPERATION	STATION	AREA	PLAN		RATIO 1	RATIO 2
					.98	.91
HYDROGRAPH AT						
+	SUB-A	4.57	1	FLOW	3200.	2901.
				TIME	4.50	4.50
HYDROGRAPH AT						
+	SUB-B	.68	1	FLOW	689.	620.
				TIME	3.83	3.92

B.3.16 200-year_FLAM3A

```
1****************************************
 *                                      *
 *   FLOOD HYDROGRAPH PACKAGE  (HEC-1)  *
 *              JUN   1998              *
 *           VERSION 4.1                *
 *                                      *
 *  RUN DATE   20MAY20  TIME  10:07:45  *
 *                                      *
 ****************************************
```

```
**************************************
*                                    *
*    U.S. ARMY CORPS OF ENGINEERS    *
*    HYDROLOGIC ENGINEERING CENTER   *
*         609 SECOND STREET          *
*       DAVIS, CALIFORNIA 95616      *
*           (916) 756-1104           *
*                                    *
**************************************
```

```
X     X  XXXXXXX   XXXXX           X
X     X  X        X     X         XX
X     X  X        X               X
XXXXXXX  XXXX     X        XXXXX  X
X     X  X        X               X
X     X  X        X     X         X
X     X  XXXXXXX   XXXXX          XXX
```

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL   LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM


```
          LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
                    *DIAGRAM
 *** FREE ***
               1    ID   RED ROCK TRAIL TO FY19-87
               2    ID   US FEDERAL HIGHWAY ADMINISTRATION
               3    ID   PN WXXY4000
               4    ID
               5    ID   HEC-1 MODEL TAKEN FROM CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT (CCRFCD)
               6    ID   2018 MASTER PLAN UPDATE
               7    ID   FLAMINGO / TROPICANA WASHES WATERSHED
               8    ID   RECOMMENDED DRAINAGE SYSTEM WITH ULTIMATE DEVELOPMENT
               9    ID   INPUT FILE = FLAM3A.DAT
              10    ID   INPUT FILE DATE = MAY 2020
              11    ID
              12    ID   PRECIPITATION VALUES CREATED FROM LOGRITHMIC TRENDLINE FOR 2-YEAR THROUGH
              13    ID   100-YEAR ISOPLUVIALS MAPS FROM NOAA ATLAS 2 THAT HAVE BEEN ADJUSTED PER
              14    ID   CCRFCD HYDRAULIC CRITERIA & DRAINAGE DESIGN MANUAL TABLE 501
              15    ID
              16    ID   DESIGN STORM = 200-YEAR, 6-HOUR STORM
              17    ID   STORM DISTRIBUTION = SDN3
              18    ID   STORM CENTERING = SERIES A: REGIONAL DETENTION BASIN FLOWS NOT DIVERTED OUT
              19    ID   MODELED BY JACOBS (DAVE BERGH, PE)
              20    ID
              21    ID   JR CARDS CONTAIN DARFS BASED ON THE FOLLOWING VALUES:
              22    ID
              23    ID         AREA    DARF
              24    ID         SQ.MI.
              25    ID                 SDN 3   SDN 4   SDN 5
              26    ID         0 - 0.5 0.990
              27    ID         0.5 - 1 0.975
              28    ID         1 - 2   0.950
              29    ID         2 - 3   0.925
              30    ID         3 - 4   0.915
              31    ID         4 - 5   0.908
              32    ID         5 - 6   0.903
              33    ID         6 - 7   0.895
              34    ID         7 - 8   0.885
              35    ID         8 - 9           0.875
              36    ID         9 - 10          0.865
              37    ID         10 - 11         0.857
              38    ID         11 - 12         0.850
              39    ID         12 - 16                 0.832
              40    ID         16 - 20                 0.804
              41    ID         20 - 30                 0.765
              42    ID         30 - 40                 0.725
              43    ID         40 - 50                 0.695
              44    ID         50 - 100                0.640
              45    ID         100 - 150               0.580
              46    ID         150 - 200               0.530
              47    ID
              48    IT      5       0       0     300
              49    IO      5       0       0
              50    IN      5       0       0
              51    JR   PREC    0.99   0.975    0.95   0.925   0.915   0.908   0.903   0.895   0.885
                    *
```



```
          LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
              52    KK     RR1
              53    BA   4.225
              54    PB    4.60
              55    PC   0.000   0.020   0.057   0.070   0.087   0.108   0.124   0.130   0.130   0.130
              56    PC   0.130   0.130   0.130   0.133   0.140   0.142   0.148   0.158   0.172   0.181
              57    PC   0.190   0.197   0.199   0.200   0.201   0.204   0.214   0.229   0.241   0.249
              58    PC   0.251   0.256   0.270   0.278   0.281   0.283   0.295   0.322   0.352   0.409
              59    PC   0.499   0.590   0.710   0.744   0.781   0.812   0.819   0.835   0.851   0.856
              60    PC   0.860   0.868   0.876   0.888   0.910   0.926   0.937   0.950   0.970   0.976
              61    PC   0.982   0.985   0.987   0.989   0.990   0.993   0.993   0.994   0.995   0.998
              62    PC   0.998   0.999   1.000
              63    LS       0    85.8
              64    UD   0.443
                    *
              65    KK     RR2
              66    BA   3.547
              67    PB    4.65
              68    LS       0    86.2
              69    UD   0.545
                    *
              70    KK    RRR2
              71    KM   MUSKINGUM ROUTING UNSTABLE - USED MUSKINGUM-CUNGE
              72    KM   NATURAL WASH
              73    RD    1700   0.076    0.04       0    TRAP     100       2
                    *
              74    KK    CRR2
              75    KM   COMBINE RR1 AND RRR2
              76    HC       2
                    *
              77    KK   RCRR2
              78    KM   ROUTE CRR2 TO CRR3
              79    KM   NATURAL WASH
              80    KM   TRAVEL LENGTH = 15850
              81    KM   SLOPE = 0.043
              82    KM   N = 0.04
              83    KM   HYDRAULIC RADIUS = 1.5
              84    KM   VELOCITY = 16.2
              85    RM       3   0.272    0.15
                    *
              86    KK     RR5
              87    BA   7.132
              88    PB    4.36
              89    LS       0    87.9
              90    UD   0.615
                    *
```



```
          LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
              91    KK   R-RR5
              92    KM   ROUTE RR5 THROUGH RR3 TO CRR3
              93    KM   NATURAL WASH
              94    KM   TRAVEL LENGTH = 10700
              95    KM   SLOPE = 0.037
              96    KM   N = 0.04
              97    KM   HYDRAULIC RADIUS = 1.5
              98    KM   VELOCITY = 15
              99    RM       2   0.198    0.15
                    *
             100    KK     RR3
             101    BA  14.983
             102    PB    4.27
             103    LS       0      87
             104    UD   0.761
                    *
             105    KK    CRR3
             106    KM   COMBINE RCRR2, R-RR5, AND RR3
             107    HC       3
                    *
             108    KK   RCRR3
             109    KM   ROUTE CRR3 THROUGH RR10 TO CRR10
             110    KM   NATURAL WASH
             111    KM   TRAVEL LENGTH = 20700
             112    KM   SLOPE = 0.025
             113    KM   N = 0.04
             114    KM   HYDRAULIC RADIUS = 1.5
             115    KM   VELOCITY = 12.3
             116    RM       6   0.466    0.15
                    *
             117    KK    RR10
             118    BA   8.775
```

```
 119          PB    3.88
 120          LS       0    86.1
 121          UD   0.882
              *

 122          KK   CRR10
 123          KM   COMBINE RCRR3 AND RR10
 124          HC       2
              *

 125          KK  RCRR10
 126          KM   ROUTE CRR10 THROUGH 104A TO C104A (RED ROCK DETENTION BASIN)
 127          KM   NATURAL WASH
 128          KM   TRAVEL LENGTH = 14500
 129          KM   SLOPE = 0.021
 130          KM   N = 0.04
 131          KM   HYDRAULIC RADIUS = 1.5
 132          KM   VELOCITY = 11.3
1                                   HEC-1 INPUT                                    PAGE  4

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 133          RM       4   0.356    0.15
              *

 134          KK   RR12A
 135          BA   5.821
 136          PB    3.98
 137          LS       0    87.6
 138          UD   0.728
              *

 139          KK R-RR12A
 140          KM   ROUTE RR12A THROUGH 104A TO C104A (RED ROCK DETENTION BASIN)
 141          KM   NATURAL WASH
 142          KM   TRAVEL LENGTH = 12000
 143          KM   SLOPE = 0.026
 144          KM   N = 0.04
 145          KM   HYDRAULIC RADIUS = 1.5
 146          KM   VELOCITY = 12.6
 147          RM       3   0.265    0.15
              *

 148          KK    104A
 149          BA   3.391
 150          PB    3.78
 151          LS       0    81.3
 152          UD   0.801
              *

 153          KK   C104A
 154          KM   COMBINE RCRR10, R-RR12A, AND 104A
 155          HC       3
              *

 156          KK     RD1
 157          BA   0.431
 158          PB    3.94
 159          LS       0    86.6
 160          UD   0.195
              *

 161          KK   R-RD1
 162          KM   ROUTE RD1 THROUGH RD2 TO CRD2
 163          KM   FUTURE CONCRETE CHANNEL
 164          RD    5100   0.061   0.015       0    TRAP      12       2
              *

 165          KK     RD2
 166          BA   0.473
 167          PB    3.85
 168          LS       0    91.2
 169          UD   0.167
              *
1                                   HEC-1 INPUT                                    PAGE  5

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 170          KK    CRD2
 171          KM   COMBINE R-RD1 AND RD2
 172          HC       2
              *

 173          KK   RCRD2
 174          KM   ROUTE CRD2 TO CRD3 (RED ROCK DETENTION BASIN)
 175          KM   FUTURE CONCRETE CHANNEL
 176          RD    4600    0.05   0.015       0    TRAP      12       2
              *

 177          KK     RD3
 178          BA    0.33
 179          PB    3.79
 180          LS       0    90.3
 181          UD   0.168
              *

 182          KK    CRD3
 183          KM   COMBINE RCRD2 AND RD3
 184          HC       2
              *

 185          KK   RR14A
 186          BA   4.602
 187          PB    3.88
 188          LS       0    87.3
 189          UD   0.725
              *

 190          KK R-RR14A
 191          KM   ROUTE RR14A THROUGH RD4 TO CRD4
 192          KM   FUTURE CONCRETE CHANNEL
 193          RD    5500   0.071   0.015       0    TRAP      12       2
              *

 194          KK     RD4
 195          BA   0.402
 196          PB    3.93
 197          LS       0    85.1
 198          UD   0.177
              *

 199          KK    CRD4
 200          KM   COMBINE R-RR14A AND RD4
 201          HC       2
              *

 202          KK   RCRD4
 203          KM   ROUTE CRD4 THROUGH RD5 TO CRD5
 204          KM   FUTURE CONCRETE CHANNEL
 205          RD    4550   0.067   0.015       0    TRAP      20       2
              *
1                                   HEC-1 INPUT                                    PAGE  6

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 206          KK     RD5
 207          BA    0.37
 208          PB    3.85
 209          LS       0    86.2
 210          UD   0.163
              *

 211          KK    CRD5
 212          KM   COMBINE RCRD4 AND RD5
 213          HC       2
              *

 214          KK   RCRD5
 215          KM   ROUTE CRD5 THROUGH RD6 TO CRD6 (RED ROCK DETENTION BASIN)
 216          KM   FUTURE CONCRETE CHANNEL
 217          RD    5600   0.047   0.015       0    TRAP      20       2
              *

 218          KK     RD6
 219          BA    0.25
 220          PB    3.79
 221          LS       0      90
 222          UD    0.16
              *

 223          KK    CRD6
 224          KM   COMBINE RCRD5 AND RD6
 225          HC       2
              *

 226          KK    INRR
 227          KM   COMBINE C104A, CRD3, AND CRD6 - TOTAL INFLOW TO RED ROCK DETENTION BASIN
 228          KO       1
 229          HC       3
              * ============================================================

 230          KK    RRDB
 231          KM   RED ROCK DETENTION BASIN
 232          KM   TAKEN FROM THE CORP MODELS FOR RED ROCK DETENTION BASIN
 233          KM   100YR COMPUTED PROBABILITY DETENTION DESIGN
 234          KM   FACILITY ID-MILE = RRWA 0716
 235          KM   STORAGE VOLUME = 2007 ACRE-FEET
 236          KM   OUTLET = 27"H x 27"W RCB ORIFICE
 237          KM   100-YR DISCHARGE = 182 CFS
 238          KM   SPILLWAY LENGTH = 600 FT
 239          KM   AUXILLARY OGEE SPILLWAY LENGTH = 323 FT
 240          KM   SPILLWAY CREST ELEVATION = 3212.5 FT NGVD
 241          KM   PMF DISCHARGE = 110000 CFS
 242          KM   TOP OF DAM ELEVATION = 3225 FT NGVD
 243          KO       1
 244          RS       1    STOR      -1
```

```
 245          SV       0       9     107     231     372     529     705     903    1125    1376
 246          SV    1659    1974    2007    2115    2331    2690    2933
 247          SQ       0      10      57      80      99     114     128     140     151     162
1                                          HEC-1 INPUT                                                  PAGE  7

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 248          SQ     171     181     182    8654   33270  110918  163477
 249          SE    3161    3162    3167    3172    3177    3182    3187    3192    3197    3202
 250          SE    3207    3212  3212.5    3214    3217    3222    3225
              * ============================================================

 251          KK *DOUTRR
 252          KM   DIVERT SPILLWAY OVERFLOW IN EXCESS OF CORPS DESIGN OUTFLOW
 253          DT*D-RROUT
 254          DI       0     182    3000    5000   10000
 255          DQ       0       0    2818    4818    9818
              *

 256          KK  ROUTRR
 257          KM   ROUTE OUTFLOW FROM RED ROCK DETENTION BASIN THROUGH R3A TO CR3A
 258          KM   FACILITY = RED ROCK CHANNEL
 259          KM   FACILITY # = RRWA 0714, 0709, 0701
 260          KM   LINING = RCP
 261          KM   LINING = RIPRAP CHNL 10'W X 6'D; 2:1SS
 262          RD    1500   0.008    0.04       0    TRAP      10       2
              *

 263          KK     R3A
 264          BA   0.186
 265          PB    3.68
 266          LS       0    84.3
 267          UD    0.11
              *

 268          KK    CR3A
 269          KM   COMBINE OUTFLOW FROM RED ROCK DETENTION BASIN WITH R3A
 270          HC       2
              *

 271          KK   RCR3A
 272          KM   ROUTE CR3A THROUGH UFR1 TO CUFR1
 273          KM   FACILITY = RED ROCK CHANNEL
 274          KM   FACILITY # = RRWA 0695, 0692, 0608, 0607
 275          KM   LINING = RCP
 276          RD    5045  0.0055   0.013       0    CIRC       8       0
              *

 277          ZZ
1
             SCHEMATIC DIAGRAM OF STREAM NETWORK
 INPUT
  LINE      (V) ROUTING          (--->) DIVERSION OR PUMP FLOW

   NO.      (.) CONNECTOR        (<---) RETURN OF DIVERTED OR PUMPED FLOW

    52        RR1
                .
                .
    65          .        RR2
                .          V
                .          V
    70          .       RRR2
                .          .
                .          .
    74       CRR2............
                V
                V
    77      RCRR2
                .
                .
    86          .        RR5
                .          V
                .          V
    91          .      R-RR5
                .          .
                .          .
   100          .          .        RR3
                .          .          .
                .          .          .
   105       CRR3........................
                V
                V
   108      RCRR3
                .
                .
   117          .       RR10
                .          .
                .          .
   122      CRR10............
                V
                V
   125     RCRR10
                .
                .
   134          .      RR12A
                .          V
                .          V
   139          .    R-RR12A
                .          .
                .          .
   148          .          .       104A
                .          .          .
                .          .          .
   153      C104A........................
                .
                .
   156          .        RD1
                .          V
                .          V
   161          .      R-RD1
                .          .
                .          .
   165          .          .        RD2
                .          .          .
                .          .          .
   170          .       CRD2............
                .          V
                .          V
   173          .      RCRD2
                .          .
                .          .
   177          .          .        RD3
                .          .          .
                .          .          .
   182          .       CRD3............
                .          .
                .          .
   185          .          .      RR14A
                .          .          V
                .          .          V
   190          .          .    R-RR14A
                .          .          .
                .          .          .
   194          .          .          .        RD4
                .          .          .          .
                .          .          .          .
   199          .          .       CRD4............
                .          .          V
                .          .          V
   202          .          .      RCRD4
                .          .          .
                .          .          .
   206          .          .          .        RD5
                .          .          .          .
                .          .          .          .
   211          .          .       CRD5............
                .          .          V
                .          .          V
   214          .          .      RCRD5
                .          .          .
                .          .          .
   218          .          .          .        RD6
                .          .          .          .
                .          .          .          .
   223          .          .       CRD6............
                .          .          .
                .          .          .
   226       INRR........................
                V
                V
   230       RRDB
                .
                .
   253          .------->*D-RROUT
   251     *DOUTRR
                V
                V
   256      ROUTRR
                .
                .
   263          .        R3A
                .          .
                .          .
   268       CR3A............
                V
                V
   271      RCR3A

 (***) RUNOFF ALSO COMPUTED AT THIS LOCATION
1*****************************************
 *                                       *
 *   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
 *              JUN   1998               *
 *            VERSION 4.1                *
 *                                       *
 *  RUN DATE   20MAY20  TIME  10:07:45   *
 *                                       *
 *****************************************
```

```
*************************************
*                                   *
*   U.S. ARMY CORPS OF ENGINEERS    *
*   HYDROLOGIC ENGINEERING CENTER   *
*         609 SECOND STREET         *
*      DAVIS, CALIFORNIA 95616      *
*          (916) 756-1104           *
*                                   *
*************************************
```

RED ROCK TRAIL TO FY19-87
US FEDERAL HIGHWAY ADMINISTRATION
PN WXXY4000

HEC-1 MODEL TAKEN FROM CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT (CCRFCD)
2018 MASTER PLAN UPDATE
FLAMINGO / TROPICANA WASHES WATERSHED
RECOMMENDED DRAINAGE SYSTEM WITH ULTIMATE DEVELOPMENT
INPUT FILE = FLAM3A.DAT
INPUT FILE DATE = MAY 2020

PRECIPITATION VALUES CREATED FROM LOGRITHMIC TRENDLINE FOR 2-YEAR THROUGH
100-YEAR ISOPLUVIALS MAPS FROM NOAA ATLAS 2 THAT HAVE BEEN ADJUSTED PER
CCRFCD HYDRAULIC CRITERIA & DRAINAGE DESIGN MANUAL TABLE 501

DESIGN STORM = 200-YEAR, 6-HOUR STORM
STORM DISTRIBUTION = SDN3
STORM CENTERING = SERIES A: REGIONAL DETENTION BASIN FLOWS NOT DIVERTED OUT
MODELED BY JACOBS (DAVE BERGH, PE)

JR CARDS CONTAIN DARFS BASED ON THE FOLLOWING VALUES:

AREA SQ.MI.	DARF SDN 3	SDN 4	SDN 5
0 - 0.5	0.990		
0.5 - 1	0.975		
1 - 2	0.950		
2 - 3	0.925		
3 - 4	0.915		
4 - 5	0.908		
5 - 6	0.903		
6 - 7	0.895		
7 - 8	0.885		
8 - 9		0.875	
9 - 10		0.865	
10 - 11		0.857	
11 - 12		0.850	
12 - 16			0.832
16 - 20			0.804
20 - 30			0.765
30 - 40			0.725
40 - 50			0.695
50 - 100			0.640
100 - 150			0.580
150 - 200			0.530

```
 49 IO          OUTPUT CONTROL VARIABLES
                     IPRNT          5  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL          0.  HYDROGRAPH PLOT SCALE

    IT          HYDROGRAPH TIME DATA
                      NMIN          5  MINUTES IN COMPUTATION INTERVAL
                     IDATE      1    0  STARTING DATE
                     ITIME         0000  STARTING TIME
                        NQ          300  NUMBER OF HYDROGRAPH ORDINATES
                    NDDATE      2    0  ENDING DATE
                    NDTIME         0055  ENDING TIME
                     ICENT           19  CENTURY MARK

                  COMPUTATION INTERVAL     .08 HOURS
                      TOTAL TIME BASE   24.92 HOURS

          ENGLISH UNITS
               DRAINAGE AREA         SQUARE MILES
               PRECIPITATION DEPTH   INCHES
               LENGTH, ELEVATION     FEET
               FLOW                  CUBIC FEET PER SECOND
               STORAGE VOLUME        ACRE-FEET
               SURFACE AREA          ACRES
               TEMPERATURE           DEGREES FAHRENHEIT

    JP          MULTI-PLAN OPTION
                     NPLAN           1  NUMBER OF PLANS

    JR          MULTI-RATIO OPTION
                    RATIOS OF PRECIPITATION
                   .99      .98      .95      .93      .92      .91      .90      .89      .88


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

          **************
          *            *
 226 KK   *      INRR  *
          *            *
          **************

 228 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          1  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL          0.  HYDROGRAPH PLOT SCALE

 229 HC          HYDROGRAPH COMBINATION
                      ICOMP          3  NUMBER OF HYDROGRAPHS TO COMBINE

                                                
```

1	0555	72	22796.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.					
1	0600	73	21230.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.					
1	0605	74	19755.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.					
1	0610	75	18325.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.					

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 45519.	5.00	15793.	3993.	3846.	3846.
		(INCHES) 2.683	2.713	2.713	2.713
		(AC-FT) 7831.	7920.	7920.	7920.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .98

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	*	1	0615	76	16606.	*	1	1230	151	0.	*	1	1845	226	0.				
1	0005	2	0.	*	1	0620	77	15223.	*	1	1235	152	0.	*	1	1850	227	0.				
1	0010	3	0.	*	1	0625	78	13847.	*	1	1240	153	0.	*	1	1855	228	0.				
1	0015	4	1.	*	1	0630	79	12493.	*	1	1245	154	0.	*	1	1900	229	0.				
1	0020	5	8.	*	1	0635	80	11178.	*	1	1250	155	0.	*	1	1905	230	0.				
1	0025	6	30.	*	1	0640	81	9926.	*	1	1255	156	0.	*	1	1910	231	0.				
1	0030	7	70.	*	1	0645	82	8755.	*	1	1300	157	0.	*	1	1915	232	0.				
1	0035	8	112.	*	1	0650	83	7680.	*	1	1305	158	0.	*	1	1920	233	0.				
1	0040	9	133.	*	1	0655	84	6708.	*	1	1310	159	0.	*	1	1925	234	0.				
1	0045	10	128.	*	1	0700	85	5840.	*	1	1315	160	0.	*	1	1930	235	0.				
1	0050	11	116.	*	1	0705	86	5070.	*	1	1320	161	0.	*	1	1935	236	0.				
1	0055	12	114.	*	1	0710	87	4392.	*	1	1325	162	0.	*	1	1940	237	0.				
1	0100	13	130.	*	1	0715	88	3795.	*	1	1330	163	0.	*	1	1945	238	0.				
1	0105	14	163.	*	1	0720	89	3270.	*	1	1335	164	0.	*	1	1950	239	0.				
1	0110	15	215.	*	1	0725	90	2808.	*	1	1340	165	0.	*	1	1955	240	0.				
1	0115	16	284.	*	1	0730	91	2402.	*	1	1345	166	0.	*	1	2000	241	0.				
1	0120	17	361.	*	1	0735	92	2046.	*	1	1350	167	0.	*	1	2005	242	0.				
1	0125	18	449.	*	1	0740	93	1734.	*	1	1355	168	0.	*	1	2010	243	0.				
1	0130	19	567.	*	1	0745	94	1462.	*	1	1400	169	0.	*	1	2015	244	0.				
1	0135	20	715.	*	1	0750	95	1226.	*	1	1405	170	0.	*	1	2020	245	0.				
1	0140	21	869.	*	1	0755	96	1023.	*	1	1410	171	0.	*	1	2025	246	0.				
1	0145	22	1011.	*	1	0800	97	850.	*	1	1415	172	0.	*	1	2030	247	0.				
1	0150	23	1134.	*	1	0805	98	704.	*	1	1420	173	0.	*	1	2035	248	0.				
1	0155	24	1232.	*	1	0810	99	580.	*	1	1425	174	0.	*	1	2040	249	0.				
1	0200	25	1314.	*	1	0815	100	477.	*	1	1430	175	0.	*	1	2045	250	0.				
1	0205	26	1399.	*	1	0820	101	392.	*	1	1435	176	0.	*	1	2050	251	0.				
1	0210	27	1509.	*	1	0825	102	322.	*	1	1440	177	0.	*	1	2055	252	0.				
1	0215	28	1669.	*	1	0830	103	264.	*	1	1445	178	0.	*	1	2100	253	0.				
1	0220	29	1881.	*	1	0835	104	217.	*	1	1450	179	0.	*	1	2105	254	0.				
1	0225	30	2108.	*	1	0840	105	178.	*	1	1455	180	0.	*	1	2110	255	0.				
1	0230	31	2309.	*	1	0845	106	146.	*	1	1500	181	0.	*	1	2115	256	0.				
1	0235	32	2478.	*	1	0850	107	119.	*	1	1505	182	0.	*	1	2120	257	0.				
1	0240	33	2676.	*	1	0855	108	97.	*	1	1510	183	0.	*	1	2125	258	0.				
1	0245	34	2942.	*	1	0900	109	79.	*	1	1515	184	0.	*	1	2130	259	0.				
1	0250	35	3232.	*	1	0905	110	64.	*	1	1520	185	0.	*	1	2135	260	0.				
1	0255	36	3477.	*	1	0910	111	52.	*	1	1525	186	0.	*	1	2140	261	0.				
1	0300	37	3688.	*	1	0915	112	41.	*	1	1530	187	0.	*	1	2145	262	0.				
1	0305	38	3956.	*	1	0920	113	33.	*	1	1535	188	0.	*	1	2150	263	0.				
1	0310	39	4361.	*	1	0925	114	26.	*	1	1540	189	0.	*	1	2155	264	0.				
1	0315	40	4943.	*	1	0930	115	20.	*	1	1545	190	0.	*	1	2200	265	0.				
1	0320	41	5841.	*	1	0935	116	15.	*	1	1550	191	0.	*	1	2205	266	0.				
1	0325	42	7185.	*	1	0940	117	12.	*	1	1555	192	0.	*	1	2210	267	0.				
1	0330	43	8879.	*	1	0945	118	9.	*	1	1600	193	0.	*	1	2215	268	0.				
1	0335	44	10598.	*	1	0950	119	7.	*	1	1605	194	0.	*	1	2220	269	0.				
1	0340	45	11771.	*	1	0955	120	5.	*	1	1610	195	0.	*	1	2225	270	0.				
1	0345	46	12751.	*	1	1000	121	4.	*	1	1615	196	0.	*	1	2230	271	0.				
1	0350	47	13969.	*	1	1005	122	3.	*	1	1620	197	0.	*	1	2235	272	0.				
1	0355	48	15485.	*	1	1010	123	2.	*	1	1625	198	0.	*	1	2240	273	0.				
1	0400	49	17361.	*	1	1015	124	2.	*	1	1630	199	0.	*	1	2245	274	0.				
1	0405	50	19557.	*	1	1020	125	1.	*	1	1635	200	0.	*	1	2250	275	0.				
1	0410	51	21923.	*	1	1025	126	1.	*	1	1640	201	0.	*	1	2255	276	0.				
1	0415	52	24442.	*	1	1030	127	1.	*	1	1645	202	0.	*	1	2300	277	0.				
1	0420	53	27186.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.				
1	0425	54	30139.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.				
1	0430	55	33256.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.				
1	0435	56	36401.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.				
1	0440	57	39285.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.				
1	0445	58	41654.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.				
1	0450	59	43411.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.				
1	0455	60	44455.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.				
1	0500	61	44615.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.				
1	0505	62	43887.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.				
1	0510	63	42414.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.				
1	0515	64	40375.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.				
1	0520	65	37972.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.				
1	0525	66	35390.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.				

1	0530	67	32795.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.					
1	0535	68	30299.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.					
1	0540	69	27985.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.					
1	0545	70	25899.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.					
1	0550	71	24046.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.					
1	0555	72	22378.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.					
1	0600	73	20843.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.					
1	0605	74	19396.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.					
1	0610	75	17994.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.					

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 44615.	5.00	15464.	3909.	3765.	3765.
		(INCHES) 2.627	2.656	2.656	2.656
		(AC-FT) 7668.	7754.	7754.	7754.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .95

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	*	1	0615	76	16099.	*	1	1230	151	0.	*	1	1845	226	0.				
1	0005	2	0.	*	1	0620	77	14760.	*	1	1235	152	0.	*	1	1850	227	0.				
1	0010	3	0.	*	1	0625	78	13428.	*	1	1240	153	0.	*	1	1855	228	0.				
1	0015	4	1.	*	1	0630	79	12115.	*	1	1245	154	0.	*	1	1900	229	0.				
1	0020	5	6.	*	1	0635	80	10841.	*	1	1250	155	0.	*	1	1905	230	0.				
1	0025	6	26.	*	1	0640	81	9627.	*	1	1255	156	0.	*	1	1910	231	0.				
1	0030	7	63.	*	1	0645	82	8493.	*	1	1300	157	0.	*	1	1915	232	0.				
1	0035	8	102.	*	1	0650	83	7450.	*	1	1305	158	0.	*	1	1920	233	0.				
1	0040	9	121.	*	1	0655	84	6508.	*	1	1310	159	0.	*	1	1925	234	0.				
1	0045	10	116.	*	1	0700	85	5666.	*	1	1315	160	0.	*	1	1930	235	0.				
1	0050	11	103.	*	1	0705	86	4919.	*	1	1320	161	0.	*	1	1935	236	0.				
1	0055	12	101.	*	1	0710	87	4261.	*	1	1325	162	0.	*	1	1940	237	0.				
1	0100	13	114.	*	1	0715	88	3682.	*	1	1330	163	0.	*	1	1945	238	0.				
1	0105	14	143.	*	1	0720	89	3173.	*	1	1335	164	0.	*	1	1950	239	0.				
1	0110	15	189.	*	1	0725	90	2725.	*	1	1340	165	0.	*	1	1955	240	0.				
1	0115	16	251.	*	1	0730	91	2331.	*	1	1345	166	0.	*	1	2000	241	0.				
1	0120	17	320.	*	1	0735	92	1985.	*	1	1350	167	0.	*	1	2005	242	0.				
1	0125	18	401.	*	1	0740	93	1682.	*	1	1355	168	0.	*	1	2010	243	0.				
1	0130	19	508.	*	1	0745	94	1419.	*	1	1400	169	0.	*	1	2015	244	0.				
1	0135	20	643.	*	1	0750	95	1190.	*	1	1405	170	0.	*	1	2020	245	0.				
1	0140	21	785.	*	1	0755	96	993.	*	1	1410	171	0.	*	1	2025	246	0.				
1	0145	22	916.	*	1	0800	97	825.	*	1	1415	172	0.	*	1	2030	247	0.				
1	0150	23	1029.	*	1	0805	98	683.	*	1	1420	173	0.	*	1	2035	248	0.				
1	0155	24	1121.	*	1	0810	99	563.	*	1	1425	174	0.	*	1	2040	249	0.				
1	0200	25	1198.	*	1	0815	100	463.	*	1	1430	175	0.	*	1	2045	250	0.				
1	0205	26	1278.	*	1	0820	101	381.	*	1	1435	176	0.	*	1	2050	251	0.				
1	0210	27	1384.	*	1	0825	102	312.	*	1	1440	177	0.	*	1	2055	252	0.				
1	0215	28	1537.	*	1	0830	103	256.	*	1	1445	178	0.	*	1	2100	253	0.				
1	0220	29	1740.	*	1	0835	104	210.	*	1	1450	179	0.	*	1	2105	254	0.				
1	0225	30	1959.	*	1	0840	105	172.	*	1	1455	180	0.	*	1	2110	255	0.				
1	0230	31	2152.	*	1	0845	106	141.	*	1	1500	181	0.	*	1	2115	256	0.				
1	0235	32	2317.	*	1	0850	107	116.	*	1	1505	182	0.	*	1	2120	257	0.				
1	0240	33	2506.	*	1	0855	108	95.	*	1	1510	183	0.	*	1	2125	258	0.				
1	0245	34	2759.	*	1	0900	109	77.	*	1	1515	184	0.	*	1	2130	259	0.				
1	0250	35	3038.	*	1	0905	110	63.	*	1	1520	185	0.	*	1	2135	260	0.				
1	0255	36	3274.	*	1	0910	111	50.	*	1	1525	186	0.	*	1	2140	261	0.				
1	0300	37	3477.	*	1	0915	112	40.	*	1	1530	187	0.	*	1	2145	262	0.				
1	0305	38	3734.	*	1	0920	113	32.	*	1	1535	188	0.	*	1	2150	263	0.				
1	0310	39	4123.	*	1	0925	114	25.	*	1	1540	189	0.	*	1	2155	264	0.				
1	0315	40	4682.	*	1	0930	115	19.	*	1	1545	190	0.	*	1	2200	265	0.				
1	0320	41	5549.	*	1	0935	116	15.	*	1	1550	191	0.	*	1	2205	266	0.				
1	0325	42	6842.	*	1	0940	117	11.	*	1	1555	192	0.	*	1	2210	267	0.				
1	0330	43	8477.	*	1	0945	118	9.	*	1	1600	193	0.	*	1	2215	268	0.				
1	0335	44	10140.	*	1	0950	119	7.	*	1	1605	194	0.	*	1	2220	269	0.				
1	0340	45	11283.	*	1	0955	120	5.	*	1	1610	195	0.	*	1	2225	270	0.				
1	0345	46	12223.	*	1	1000	121	4.	*	1	1615	196	0.	*	1	2230	271	0.				
1	0350	47	13401.	*	1	1005	122	3.	*	1	1620	197	0.	*	1	2235	272	0.				
1	0355	48	14863.	*	1	1010	123	2.	*	1	1625	198	0.	*	1	2240	273	0.				
1	0400	49	16677.	*	1	1015	124	2.	*	1	1630	199	0.	*	1	2245	274	0.				
1	0405	50	18801.	*	1	1020	125	1.	*	1	1635	200	0.	*	1	2250	275	0.				
1	0410	51	21088.	*	1	1025	126	1.	*	1	1640	201	0.	*	1	2255	276	0.				
1	0415	52	23527.	*	1	1030	127	1.	*	1	1645	202	0.	*	1	2300	277	0.				
1	0420	53	26184.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.				
1	0425	54	29043.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.				
1	0430	55	32062.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.				
1	0435	56	35113.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.				
1	0440	57	37911.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.				
1	0445	58	40213.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.				
1	0450	59	41924.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.				
1	0455	60	42947.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.				
1	0500	61	43114.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.				

1	0505	62	42426.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.					
1	0510	63	41011.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.					
1	0515	64	39049.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.					
1	0520	65	36733.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.					
1	0525	66	34244.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.					
1	0530	67	31739.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.					
1	0535	68	29331.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.					
1	0540	69	27096.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.					
1	0545	70	25083.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.					
1	0550	71	23293.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.					
1	0555	72	21681.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.					
1	0600	73	20197.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.					
1	0605	74	18799.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.					
1	0610	75	17442.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.					
				*					*					*									

	PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+	(CFS)	(HR)				
		(CFS)				
+	43114.	5.00	14918.	3770.	3631.	3631.
		(INCHES)	2.534	2.561	2.561	2.561
		(AC-FT)	7397.	7477.	7477.	7477.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .93

1	0045	10	104.	*	1	0700	85	5491.	*	1	1315	160	0.	*	1	1930	235	0.					
1	0050	11	92.	*	1	0705	86	4768.	*	1	1320	161	0.	*	1	1935	236	0.					
1	0055	12	89.	*	1	0710	87	4131.	*	1	1325	162	0.	*	1	1940	237	0.					
1	0100	13	99.	*	1	0715	88	3569.	*	1	1330	163	0.	*	1	1945	238	0.					
1	0105	14	124.	*	1	0720	89	3076.	*	1	1335	164	0.	*	1	1950	239	0.					
1	0110	15	165.	*	1	0725	90	2641.	*	1	1340	165	0.	*	1	1955	240	0.					
1	0115	16	221.	*	1	0730	91	2260.	*	1	1345	166	0.	*	1	2000	241	0.					
1	0120	17	283.	*	1	0735	92	1924.	*	1	1350	167	0.	*	1	2005	242	0.					
1	0125	18	354.	*	1	0740	93	1631.	*	1	1355	168	0.	*	1	2010	243	0.					
1	0130	19	452.	*	1	0745	94	1375.	*	1	1400	169	0.	*	1	2015	244	0.					
1	0135	20	575.	*	1	0750	95	1154.	*	1	1405	170	0.	*	1	2020	245	0.					
1	0140	21	705.	*	1	0755	96	963.	*	1	1410	171	0.	*	1	2025	246	0.					
1	0145	22	825.	*	1	0800	97	800.	*	1	1415	172	0.	*	1	2030	247	0.					
1	0150	23	929.	*	1	0805	98	662.	*	1	1420	173	0.	*	1	2035	248	0.					
1	0155	24	1014.	*	1	0810	99	546.	*	1	1425	174	0.	*	1	2040	249	0.					
1	0200	25	1086.	*	1	0815	100	449.	*	1	1430	175	0.	*	1	2045	250	0.					
1	0205	26	1162.	*	1	0820	101	369.	*	1	1435	176	0.	*	1	2050	251	0.					
1	0210	27	1263.	*	1	0825	102	303.	*	1	1440	177	0.	*	1	2055	252	0.					
1	0215	28	1410.	*	1	0830	103	249.	*	1	1445	178	0.	*	1	2100	253	0.					
1	0220	29	1604.	*	1	0835	104	204.	*	1	1450	179	0.	*	1	2105	254	0.					
1	0225	30	1813.	*	1	0840	105	167.	*	1	1455	180	0.	*	1	2110	255	0.					
1	0230	31	1999.	*	1	0845	106	137.	*	1	1500	181	0.	*	1	2115	256	0.					
1	0235	32	2157.	*	1	0850	107	112.	*	1	1505	182	0.	*	1	2120	257	0.					
1	0240	33	2338.	*	1	0855	108	92.	*	1	1510	183	0.	*	1	2125	258	0.					
1	0245	34	2581.	*	1	0900	109	75.	*	1	1515	184	0.	*	1	2130	259	0.					
1	0250	35	2847.	*	1	0905	110	61.	*	1	1520	185	0.	*	1	2135	260	0.					
1	0255	36	3074.	*	1	0910	111	49.	*	1	1525	186	0.	*	1	2140	261	0.					
1	0300	37	3270.	*	1	0915	112	39.	*	1	1530	187	0.	*	1	2145	262	0.					
1	0305	38	3516.	*	1	0920	113	31.	*	1	1535	188	0.	*	1	2150	263	0.					
1	0310	39	3887.	*	1	0925	114	24.	*	1	1540	189	0.	*	1	2155	264	0.					
1	0315	40	4424.	*	1	0930	115	19.	*	1	1545	190	0.	*	1	2200	265	0.					
1	0320	41	5259.	*	1	0935	116	14.	*	1	1550	191	0.	*	1	2205	266	0.					
1	0325	42	6499.	*	1	0940	117	11.	*	1	1555	192	0.	*	1	2210	267	0.					
1	0330	43	8086.	*	1	0945	118	8.	*	1	1600	193	0.	*	1	2215	268	0.					
1	0335	44	9684.	*	1	0950	119	6.	*	1	1605	194	0.	*	1	2220	269	0.					
1	0340	45	10798.	*	1	0955	120	5.	*	1	1610	195	0.	*	1	2225	270	0.					
1	0345	46	11701.	*	1	1000	121	4.	*	1	1615	196	0.	*	1	2230	271	0.					
1	0350	47	12836.	*	1	1005	122	3.	*	1	1620	197	0.	*	1	2235	272	0.					
1	0355	48	14247.	*	1	1010	123	2.	*	1	1625	198	0.	*	1	2240	273	0.					
1	0400	49	15995.	*	1	1015	124	2.	*	1	1630	199	0.	*	1	2245	274	0.					
1	0405	50	18049.	*	1	1020	125	1.	*	1	1635	200	0.	*	1	2250	275	0.					
1	0410	51	20259.	*	1	1025	126	1.	*	1	1640	201	0.	*	1	2255	276	0.					
1	0415	52	22614.	*	1	1030	127	1.	*	1	1645	202	0.	*	1	2300	277	0.					
1	0420	53	25185.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.					
1	0425	54	27949.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.					
1	0430	55	30872.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.					
1	0435	56	33824.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.					

1	0440	57	36537.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.					
1	0445	58	38773.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.					
1	0450	59	40436.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.					
1	0455	60	41436.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.					
1	0500	61	41611.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.					
1	0505	62	40958.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.					
1	0510	63	39604.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.					
1	0515	64	37720.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.					
1	0520	65	35492.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.					
1	0525	66	33096.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.					
1	0530	67	30683.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.					
1	0535	68	28361.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.					
1	0540	69	26207.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.					
1	0545	70	24265.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.					
1	0550	71	22538.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.					
1	0555	72	20983.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.					
1	0600	73	19552.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.					
1	0605	74	18201.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.					
1	0610	75	16890.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.					
				*					*					*									

	PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+	(CFS)	(HR)				
		(CFS)				
+	41611.	5.00	14373.	3631.	3497.	3497.
		(INCHES)	2.442	2.467	2.467	2.467
		(AC-FT)	7127.	7201.	7201.	7201.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .92

1	0020	5	4.	*	1	0635	80	10369.	*	1	1250	155	0.	*	1	1905	230	0.					
1	0025	6	21.	*	1	0640	81	9209.	*	1	1255	156	0.	*	1	1910	231	0.					
1	0030	7	53.	*	1	0645	82	8125.	*	1	1300	157	0.	*	1	1915	232	0.					
1	0035	8	88.	*	1	0650	83	7128.	*	1	1305	158	0.	*	1	1920	233	0.					
1	0040	9	105.	*	1	0655	84	6227.	*	1	1310	159	0.	*	1	1925	234	0.					
1	0045	10	99.	*	1	0700	85	5421.	*	1	1315	160	0.	*	1	1930	235	0.					
1	0050	11	87.	*	1	0705	86	4708.	*	1	1320	161	0.	*	1	1935	236	0.					
1	0055	12	84.	*	1	0710	87	4078.	*	1	1325	162	0.	*	1	1940	237	0.					
1	0100	13	94.	*	1	0715	88	3524.	*	1	1330	163	0.	*	1	1945	238	0.					
1	0105	14	117.	*	1	0720	89	3037.	*	1	1335	164	0.	*	1	1950	239	0.					
1	0110	15	156.	*	1	0725	90	2608.	*	1	1340	165	0.	*	1	1955	240	0.					
1	0115	16	209.	*	1	0730	91	2231.	*	1	1345	166	0.	*	1	2000	241	0.					
1	0120	17	268.	*	1	0735	92	1900.	*	1	1350	167	0.	*	1	2005	242	0.					
1	0125	18	337.	*	1	0740	93	1610.	*	1	1355	168	0.	*	1	2010	243	0.					
1	0130	19	430.	*	1	0745	94	1358.	*	1	1400	169	0.	*	1	2015	244	0.					
1	0135	20	549.	*	1	0750	95	1139.	*	1	1405	170	0.	*	1	2020	245	0.					
1	0140	21	674.	*	1	0755	96	951.	*	1	1410	171	0.	*	1	2025	246	0.					
1	0145	22	790.	*	1	0800	97	790.	*	1	1415	172	0.	*	1	2030	247	0.					
1	0150	23	891.	*	1	0805	98	654.	*	1	1420	173	0.	*	1	2035	248	0.					
1	0155	24	973.	*	1	0810	99	539.	*	1	1425	174	0.	*	1	2040	249	0.					
1	0200	25	1042.	*	1	0815	100	444.	*	1	1430	175	0.	*	1	2045	250	0.					
1	0205	26	1117.	*	1	0820	101	365.	*	1	1435	176	0.	*	1	2050	251	0.					
1	0210	27	1215.	*	1	0825	102	299.	*	1	1440	177	0.	*	1	2055	252	0.					
1	0215	28	1360.	*	1	0830	103	245.	*	1	1445	178	0.	*	1	2100	253	0.					
1	0220	29	1550.	*	1	0835	104	201.	*	1	1450	179	0.	*	1	2105	254	0.					
1	0225	30	1756.	*	1	0840	105	165.	*	1	1455	180	0.	*	1	2110	255	0.					
1	0230	31	1939.	*	1	0845	106	135.	*	1	1500	181	0.	*	1	2115	256	0.					
1	0235	32	2095.	*	1	0850	107	111.	*	1	1505	182	0.	*	1	2120	257	0.					
1	0240	33	2272.	*	1	0855	108	91.	*	1	1510	183	0.	*	1	2125	258	0.					
1	0245	34	2511.	*	1	0900	109	74.	*	1	1515	184	0.	*	1	2130	259	0.					
1	0250	35	2772.	*	1	0905	110	60.	*	1	1520	185	0.	*	1	2135	260	0.					
1	0255	36	2994.	*	1	0910	111	48.	*	1	1525	186	0.	*	1	2140	261	0.					
1	0300	37	3187.	*	1	0915	112	39.	*	1	1530	187	0.	*	1	2145	262	0.					
1	0305	38	3430.	*	1	0920	113	30.	*	1	1535	188	0.	*	1	2150	263	0.					
1	0310	39	3795.	*	1	0925	114	24.	*	1	1540	189	0.	*	1	2155	264	0.					
1	0315	40	4322.	*	1	0930	115	19.	*	1	1545	190	0.	*	1	2200	265	0.					
1	0320	41	5141.	*	1	0935	116	14.	*	1	1550	191	0.	*	1	2205	266	0.					
1	0325	42	6364.	*	1	0940	117	11.	*	1	1555	192	0.	*	1	2210	267	0.					
1	0330	43	7920.	*	1	0945	118	8.	*	1	1600	193	0.	*	1	2215	268	0.					
1	0335	44	9511.	*	1	0950	119	6.	*	1	1605	194	0.	*	1	2220	269	0.					
1	0340	45	10595.	*	1	0955	120	5.	*	1	1610	195	0.	*	1	2225	270	0.					
1	0345	46	11497.	*	1	1000	121	4.	*	1	1615	196	0.	*	1	2230	271	0.					
1	0350	47	12609.	*	1	1005	122	3.	*	1	1620	197	0.	*	1	2235	272	0.					
1	0355	48	13999.	*	1	1010	123	2.	*	1	1625	198	0.	*	1	2240	273	0.					
1	0400	49	15726.	*	1	1015	124	2.	*	1	1630	199	0.	*	1	2245	274	0.					
1	0405	50	17748.	*	1	1020	125	1.	*	1	1635	200	0.	*	1	2250	275	0.					
1	0410	51	19928.	*	1	1025	126	1.	*	1	1640	201	0.	*	1	2255	276	0.					

1	0415	52	22249.	*	1	1030	127	1.	*	1	1645	202	0.	*	1	2300	277	0.					
1	0420	53	24784.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.					
1	0425	54	27513.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.					
1	0430	55	30394.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.					
1	0435	56	33310.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.					
1	0440	57	35989.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.					
1	0445	58	38195.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.					
1	0450	59	39841.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.					
1	0455	60	40833.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.					
1	0500	61	41012.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.					
1	0505	62	40373.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.					
1	0510	63	39043.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.					
1	0515	64	37189.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.					
1	0520	65	34996.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.					
1	0525	66	32637.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.					
1	0530	67	30261.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.					
1	0535	68	27974.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.					
1	0540	69	25851.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.					
1	0545	70	23938.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.					
1	0550	71	22237.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.					
1	0555	72	20704.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.					
1	0600	73	19293.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.					
1	0605	74	17962.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.					
1	0610	75	16670.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.					
				*					*					*									

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
	(CFS)				
+ 41012.	5.00	14156.	3575.	3444.	3444.
	(INCHES)	2.405	2.429	2.429	2.429
	(AC-FT)	7019.	7091.	7091.	7091.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .91

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	*	1	0615	76	15247.	*	1	1230	151	0.	*	1	1845	226	0.					
1	0005	2	0.	*	1	0620	77	13982.	*	1	1235	152	0.	*	1	1850	227	0.					
1	0010	3	0.	*	1	0625	78	12722.	*	1	1240	153	0.	*	1	1855	228	0.					
1	0015	4	0.	*	1	0630	79	11480.	*	1	1245	154	0.	*	1	1900	229	0.					
1	0020	5	4.	*	1	0635	80	10275.	*	1	1250	155	0.	*	1	1905	230	0.					
1	0025	6	20.	*	1	0640	81	9126.	*	1	1255	156	0.	*	1	1910	231	0.					
1	0030	7	52.	*	1	0645	82	8051.	*	1	1300	157	0.	*	1	1915	232	0.					
1	0035	8	85.	*	1	0650	83	7064.	*	1	1305	158	0.	*	1	1920	233	0.					
1	0040	9	101.	*	1	0655	84	6171.	*	1	1310	159	0.	*	1	1925	234	0.					
1	0045	10	96.	*	1	0700	85	5373.	*	1	1315	160	0.	*	1	1930	235	0.					
1	0050	11	84.	*	1	0705	86	4665.	*	1	1320	161	0.	*	1	1935	236	0.					
1	0055	12	81.	*	1	0710	87	4042.	*	1	1325	162	0.	*	1	1940	237	0.					
1	0100	13	90.	*	1	0715	88	3493.	*	1	1330	163	0.	*	1	1945	238	0.					
1	0105	14	112.	*	1	0720	89	3009.	*	1	1335	164	0.	*	1	1950	239	0.					
1	0110	15	150.	*	1	0725	90	2585.	*	1	1340	165	0.	*	1	1955	240	0.					
1	0115	16	201.	*	1	0730	91	2211.	*	1	1345	166	0.	*	1	2000	241	0.					
1	0120	17	258.	*	1	0735	92	1883.	*	1	1350	167	0.	*	1	2005	242	0.					
1	0125	18	325.	*	1	0740	93	1596.	*	1	1355	168	0.	*	1	2010	243	0.					
1	0130	19	415.	*	1	0745	94	1346.	*	1	1400	169	0.	*	1	2015	244	0.					
1	0135	20	531.	*	1	0750	95	1129.	*	1	1405	170	0.	*	1	2020	245	0.					
1	0140	21	653.	*	1	0755	96	943.	*	1	1410	171	0.	*	1	2025	246	0.					
1	0145	22	766.	*	1	0800	97	783.	*	1	1415	172	0.	*	1	2030	247	0.					
1	0150	23	864.	*	1	0805	98	648.	*	1	1420	173	0.	*	1	2035	248	0.					
1	0155	24	944.	*	1	0810	99	535.	*	1	1425	174	0.	*	1	2040	249	0.					
1	0200	25	1012.	*	1	0815	100	440.	*	1	1430	175	0.	*	1	2045	250	0.					
1	0205	26	1086.	*	1	0820	101	361.	*	1	1435	176	0.	*	1	2050	251	0.					
1	0210	27	1183.	*	1	0825	102	297.	*	1	1440	177	0.	*	1	2055	252	0.					
1	0215	28	1325.	*	1	0830	103	243.	*	1	1445	178	0.	*	1	2100	253	0.					
1	0220	29	1513.	*	1	0835	104	200.	*	1	1450	179	0.	*	1	2105	254	0.					
1	0225	30	1716.	*	1	0840	105	164.	*	1	1455	180	0.	*	1	2110	255	0.					
1	0230	31	1897.	*	1	0845	106	134.	*	1	1500	181	0.	*	1	2115	256	0.					
1	0235	32	2052.	*	1	0850	107	110.	*	1	1505	182	0.	*	1	2120	257	0.					
1	0240	33	2227.	*	1	0855	108	90.	*	1	1510	183	0.	*	1	2125	258	0.					
1	0245	34	2462.	*	1	0900	109	73.	*	1	1515	184	0.	*	1	2130	259	0.					
1	0250	35	2720.	*	1	0905	110	59.	*	1	1520	185	0.	*	1	2135	260	0.					
1	0255	36	2939.	*	1	0910	111	48.	*	1	1525	186	0.	*	1	2140	261	0.					
1	0300	37	3130.	*	1	0915	112	38.	*	1	1530	187	0.	*	1	2145	262	0.					
1	0305	38	3370.	*	1	0920	113	30.	*	1	1535	188	0.	*	1	2150	263	0.					
1	0310	39	3729.	*	1	0925	114	24.	*	1	1540	189	0.	*	1	2155	264	0.					
1	0315	40	4250.	*	1	0930	115	18.	*	1	1545	190	0.	*	1	2200	265	0.					
1	0320	41	5058.	*	1	0935	116	14.	*	1	1550	191	0.	*	1	2205	266	0.					
1	0325	42	6268.	*	1	0940	117	11.	*	1	1555	192	0.	*	1	2210	267	0.					
1	0330	43	7813.	*	1	0945	118	8.	*	1	1600	193	0.	*	1	2215	268	0.					
1	0335	44	9378.	*	1	0950	119	6.	*	1	1605	194	0.	*	1	2220	269	0.					
1	0340	45	10465.	*	1	0955	120	5.	*	1	1610	195	0.	*	1	2225	270	0.					
1	0345	46	11342.	*	1	1000	121	4.	*	1	1615	196	0.	*	1	2230	271	0.					

1	0350	47	12449.	*	1	1005	122	3.	*	1	1620	197	0.	*	1	2235	272	0.					
1	0355	48	13827.	*	1	1010	123	2.	*	1	1625	198	0.	*	1	2240	273	0.					
1	0400	49	15534.	*	1	1015	124	2.	*	1	1630	199	0.	*	1	2245	274	0.					
1	0405	50	17536.	*	1	1020	125	1.	*	1	1635	200	0.	*	1	2250	275	0.					
1	0410	51	19695.	*	1	1025	126	1.	*	1	1640	201	0.	*	1	2255	276	0.					
1	0415	52	21996.	*	1	1030	127	1.	*	1	1645	202	0.	*	1	2300	277	0.					
1	0420	53	24506.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.					
1	0425	54	27207.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.					
1	0430	55	30063.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.					
1	0435	56	32950.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.					
1	0440	57	35605.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.					
1	0445	58	37794.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.					
1	0450	59	39426.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.					
1	0455	60	40412.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.					
1	0500	61	40593.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.					
1	0505	62	39965.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.					
1	0510	63	38650.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.					
1	0515	64	36818.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.					
1	0520	65	34650.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.					
1	0525	66	32316.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.					
1	0530	67	29965.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.					
1	0535	68	27702.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.					
1	0540	69	25603.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.					
1	0545	70	23709.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.					
1	0550	71	22025.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.					
1	0555	72	20508.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.					
1	0600	73	19112.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.					
1	0605	74	17794.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.					
1	0610	75	16515.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.					
				*					*					*									

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
	(CFS)				
+ 40593.	5.00	14004.	3536.	3406.	3406.
	(INCHES)	2.379	2.403	2.403	2.403
	(AC-FT)	6944.	7014.	7014.	7014.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .90

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	*	1	0615	76	15146.	*	1	1230	151	0.	*	1	1845	226	0.					
1	0005	2	0.	*	1	0620	77	13889.	*	1	1235	152	0.	*	1	1850	227	0.					
1	0010	3	0.	*	1	0625	78	12638.	*	1	1240	153	0.	*	1	1855	228	0.					
1	0015	4	0.	*	1	0630	79	11405.	*	1	1245	154	0.	*	1	1900	229	0.					
1	0020	5	4.	*	1	0635	80	10207.	*	1	1250	155	0.	*	1	1905	230	0.					
1	0025	6	19.	*	1	0640	81	9066.	*	1	1255	156	0.	*	1	1910	231	0.					
1	0030	7	50.	*	1	0645	82	7998.	*	1	1300	157	0.	*	1	1915	232	0.					
1	0035	8	84.	*	1	0650	83	7018.	*	1	1305	158	0.	*	1	1920	233	0.					
1	0040	9	99.	*	1	0655	84	6131.	*	1	1310	159	0.	*	1	1925	234	0.					
1	0045	10	94.	*	1	0700	85	5338.	*	1	1315	160	0.	*	1	1930	235	0.					
1	0050	11	82.	*	1	0705	86	4635.	*	1	1320	161	0.	*	1	1935	236	0.					
1	0055	12	78.	*	1	0710	87	4015.	*	1	1325	162	0.	*	1	1940	237	0.					
1	0100	13	87.	*	1	0715	88	3470.	*	1	1330	163	0.	*	1	1945	238	0.					
1	0105	14	109.	*	1	0720	89	2990.	*	1	1335	164	0.	*	1	1950	239	0.					
1	0110	15	145.	*	1	0725	90	2568.	*	1	1340	165	0.	*	1	1955	240	0.					
1	0115	16	196.	*	1	0730	91	2197.	*	1	1345	166	0.	*	1	2000	241	0.					
1	0120	17	251.	*	1	0735	92	1871.	*	1	1350	167	0.	*	1	2005	242	0.					
1	0125	18	316.	*	1	0740	93	1586.	*	1	1355	168	0.	*	1	2010	243	0.					
1	0130	19	405.	*	1	0745	94	1337.	*	1	1400	169	0.	*	1	2015	244	0.					
1	0135	20	518.	*	1	0750	95	1122.	*	1	1405	170	0.	*	1	2020	245	0.					
1	0140	21	638.	*	1	0755	96	937.	*	1	1410	171	0.	*	1	2025	246	0.					
1	0145	22	749.	*	1	0800	97	778.	*	1	1415	172	0.	*	1	2030	247	0.					
1	0150	23	846.	*	1	0805	98	644.	*	1	1420	173	0.	*	1	2035	248	0.					
1	0155	24	924.	*	1	0810	99	531.	*	1	1425	174	0.	*	1	2040	249	0.					
1	0200	25	991.	*	1	0815	100	437.	*	1	1430	175	0.	*	1	2045	250	0.					
1	0205	26	1063.	*	1	0820	101	359.	*	1	1435	176	0.	*	1	2050	251	0.					
1	0210	27	1160.	*	1	0825	102	295.	*	1	1440	177	0.	*	1	2055	252	0.					
1	0215	28	1300.	*	1	0830	103	242.	*	1	1445	178	0.	*	1	2100	253	0.					
1	0220	29	1487.	*	1	0835	104	198.	*	1	1450	179	0.	*	1	2105	254	0.					
1	0225	30	1688.	*	1	0840	105	163.	*	1	1455	180	0.	*	1	2110	255	0.					
1	0230	31	1867.	*	1	0845	106	133.	*	1	1500	181	0.	*	1	2115	256	0.					
1	0235	32	2020.	*	1	0850	107	109.	*	1	1505	182	0.	*	1	2120	257	0.					
1	0240	33	2194.	*	1	0855	108	89.	*	1	1510	183	0.	*	1	2125	258	0.					
1	0245	34	2427.	*	1	0900	109	73.	*	1	1515	184	0.	*	1	2130	259	0.					
1	0250	35	2683.	*	1	0905	110	59.	*	1	1520	185	0.	*	1	2135	260	0.					
1	0255	36	2901.	*	1	0910	111	48.	*	1	1525	186	0.	*	1	2140	261	0.					
1	0300	37	3089.	*	1	0915	112	38.	*	1	1530	187	0.	*	1	2145	262	0.					
1	0305	38	3326.	*	1	0920	113	30.	*	1	1535	188	0.	*	1	2150	263	0.					
1	0310	39	3682.	*	1	0925	114	24.	*	1	1540	189	0.	*	1	2155	264	0.					
1	0315	40	4199.	*	1	0930	115	18.	*	1	1545	190	0.	*	1	2200	265	0.					
1	0320	41	5002.	*	1	0935	116	14.	*	1	1550	191	0.	*	1	2205	266	0.					

1	0325	42	6201.	*	1	0940	117	11.	*	1	1555	192	0.	*	1	2210	267	0.
1	0330	43	7739.	*	1	0945	118	8.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	9288.	*	1	0950	119	6.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	10365.	*	1	0955	120	5.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	11247.	*	1	1000	121	4.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	12337.	*	1	1005	122	3.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	13705.	*	1	1010	123	2.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	15398.	*	1	1015	124	2.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	17389.	*	1	1020	125	1.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	19527.	*	1	1025	126	1.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	21815.	*	1	1030	127	1.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	24307.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	26991.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	29825.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	32694.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	35331.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	37506.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	39130.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	40109.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	40292.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	39670.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	38369.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	36553.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	34402.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	32086.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	29754.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	27508.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	25425.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	23545.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	21875.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	20369.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	18983.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	17675.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	16404.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW				
		6-HR	24-HR	72-HR	24.92-HR	
+ (CFS)	(HR)					
		(CFS)				
+ 40292.	5.00	13895.	3509.	3380.	3380.	
		(INCHES) 2.360	2.384	2.384	2.384	
		(AC-FT) 6890.	6959.	6959.	6959.	

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .89

1	0000	1	0.	*	1	0615	76	14983.	*	1	1230	151	0.	*	1	1845	226	0.
1	0005	2	0.	*	1	0620	77	13741.	*	1	1235	152	0.	*	1	1850	227	0.
1	0010	3	0.	*	1	0625	78	12504.	*	1	1240	153	0.	*	1	1855	228	0.
1	0015	4	0.	*	1	0630	79	11284.	*	1	1245	154	0.	*	1	1900	229	0.
1	0020	5	4.	*	1	0635	80	10100.	*	1	1250	155	0.	*	1	1905	230	0.
1	0025	6	18.	*	1	0640	81	8970.	*	1	1255	156	0.	*	1	1910	231	0.
1	0030	7	48.	*	1	0645	82	7914.	*	1	1300	157	0.	*	1	1915	232	0.
1	0035	8	81.	*	1	0650	83	6944.	*	1	1305	158	0.	*	1	1920	233	0.
1	0040	9	96.	*	1	0655	84	6066.	*	1	1310	159	0.	*	1	1925	234	0.
1	0045	10	90.	*	1	0700	85	5282.	*	1	1315	160	0.	*	1	1930	235	0.
1	0050	11	79.	*	1	0705	86	4587.	*	1	1320	161	0.	*	1	1935	236	0.
1	0055	12	75.	*	1	0710	87	3974.	*	1	1325	162	0.	*	1	1940	237	0.
1	0100	13	83.	*	1	0715	88	3434.	*	1	1330	163	0.	*	1	1945	238	0.
1	0105	14	104.	*	1	0720	89	2959.	*	1	1335	164	0.	*	1	1950	239	0.
1	0110	15	139.	*	1	0725	90	2541.	*	1	1340	165	0.	*	1	1955	240	0.
1	0115	16	187.	*	1	0730	91	2174.	*	1	1345	166	0.	*	1	2000	241	0.
1	0120	17	241.	*	1	0735	92	1852.	*	1	1350	167	0.	*	1	2005	242	0.
1	0125	18	303.	*	1	0740	93	1569.	*	1	1355	168	0.	*	1	2010	243	0.
1	0130	19	388.	*	1	0745	94	1323.	*	1	1400	169	0.	*	1	2015	244	0.
1	0135	20	498.	*	1	0750	95	1110.	*	1	1405	170	0.	*	1	2020	245	0.
1	0140	21	614.	*	1	0755	96	927.	*	1	1410	171	0.	*	1	2025	246	0.
1	0145	22	722.	*	1	0800	97	770.	*	1	1415	172	0.	*	1	2030	247	0.
1	0150	23	816.	*	1	0805	98	637.	*	1	1420	173	0.	*	1	2035	248	0.
1	0155	24	892.	*	1	0810	99	526.	*	1	1425	174	0.	*	1	2040	249	0.
1	0200	25	958.	*	1	0815	100	433.	*	1	1430	175	0.	*	1	2045	250	0.
1	0205	26	1029.	*	1	0820	101	355.	*	1	1435	176	0.	*	1	2050	251	0.
1	0210	27	1123.	*	1	0825	102	292.	*	1	1440	177	0.	*	1	2055	252	0.
1	0215	28	1261.	*	1	0830	103	239.	*	1	1445	178	0.	*	1	2100	253	0.
1	0220	29	1445.	*	1	0835	104	196.	*	1	1450	179	0.	*	1	2105	254	0.
1	0225	30	1643.	*	1	0840	105	161.	*	1	1455	180	0.	*	1	2110	255	0.
1	0230	31	1820.	*	1	0845	106	132.	*	1	1500	181	0.	*	1	2115	256	0.
1	0235	32	1971.	*	1	0850	107	108.	*	1	1505	182	0.	*	1	2120	257	0.
1	0240	33	2142.	*	1	0855	108	88.	*	1	1510	183	0.	*	1	2125	258	0.
1	0245	34	2372.	*	1	0900	109	72.	*	1	1515	184	0.	*	1	2130	259	0.
1	0250	35	2623.	*	1	0905	110	58.	*	1	1520	185	0.	*	1	2135	260	0.
1	0255	36	2839.	*	1	0910	111	47.	*	1	1525	186	0.	*	1	2140	261	0.
1	0300	37	3025.	*	1	0915	112	38.	*	1	1530	187	0.	*	1	2145	262	0.
1	0305	38	3258.	*	1	0920	113	30.	*	1	1535	188	0.	*	1	2150	263	0.
1	0310	39	3611.	*	1	0925	114	23.	*	1	1540	189	0.	*	1	2155	264	0.
1	0315	40	4120.	*	1	0930	115	18.	*	1	1545	190	0.	*	1	2200	265	0.
1	0320	41	4914.	*	1	0935	116	14.	*	1	1550	191	0.	*	1	2205	266	0.
1	0325	42	6098.	*	1	0940	117	11.	*	1	1555	192	0.	*	1	2210	267	0.
1	0330	43	7609.	*	1	0945	118	8.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	9153.	*	1	0950	119	6.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	10212.	*	1	0955	120	5.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	11085.	*	1	1000	121	4.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	12163.	*	1	1005	122	3.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	13510.	*	1	1010	123	2.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	15185.	*	1	1015	124	2.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	17147.	*	1	1020	125	1.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	19268.	*	1	1025	126	1.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	21524.	*	1	1030	127	1.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	23990.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	26640.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	29445.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	32282.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	34893.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	37046.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	38654.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	39628.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	39813.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	39204.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	37921.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	36129.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	34005.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	31720.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	29416.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	27199.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	25140.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	23284.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	21633.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	20146.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	18776.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	17483.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	16228.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW				
		6-HR	24-HR	72-HR	24.92-HR	
+ (CFS)	(HR)					
		(CFS)				
+ 39813.	5.00	13722.	3464.	3337.	3337.	
		(INCHES) 2.331	2.354	2.354	2.354	
		(AC-FT) 6804.	6872.	6872.	6872.	

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .88

1	0000	1	0.	*	1	0615	76	14780.	*	1	1230	151	0.	*	1	1845	226	0.
1	0005	2	0.	*	1	0620	77	13556.	*	1	1235	152	0.	*	1	1850	227	0.
1	0010	3	0.	*	1	0625	78	12336.	*	1	1240	153	0.	*	1	1855	228	0.
1	0015	4	0.	*	1	0630	79	11133.	*	1	1245	154	0.	*	1	1900	229	0.
1	0020	5	3.	*	1	0635	80	9965.	*	1	1250	155	0.	*	1	1905	230	0.
1	0025	6	17.	*	1	0640	81	8851.	*	1	1255	156	0.	*	1	1910	231	0.
1	0030	7	46.	*	1	0645	82	7809.	*	1	1300	157	0.	*	1	1915	232	0.
1	0035	8	77.	*	1	0650	83	6852.	*	1	1305	158	0.	*	1	1920	233	0.
1	0040	9	92.	*	1	0655	84	5986.	*	1	1310	159	0.	*	1	1925	234	0.
1	0045	10	86.	*	1	0700	85	5212.	*	1	1315	160	0.	*	1	1930	235	0.
1	0050	11	75.	*	1	0705	86	4526.	*	1	1320	161	0.	*	1	1935	236	0.
1	0055	12	71.	*	1	0710	87	3921.	*	1	1325	162	0.	*	1	1940	237	0.
1	0100	13	78.	*	1	0715	88	3389.	*	1	1330	163	0.	*	1	1945	238	0.
1	0105	14	97.	*	1	0720	89	2920.	*	1	1335	164	0.	*	1	1950	239	0.
1	0110	15	130.	*	1	0725	90	2508.	*	1	1340	165	0.	*	1	1955	240	0.
1	0115	16	176.	*	1	0730	91	2145.	*	1	1345	166	0.	*	1	2000	241	0.
1	0120	17	227.	*	1	0735	92	1827.	*	1	1350	167	0.	*	1	2005	242	0.
1	0125	18	287.	*	1	0740	93	1549.	*	1	1355	168	0.	*	1	2010	243	0.
1	0130	19	368.	*	1	0745	94	1306.	*	1	1400	169	0.	*	1	2015	244	0.
1	0135	20	474.	*	1	0750	95	1096.	*	1	1405	170	0.	*	1	2020	245	0.
1	0140	21	585.	*	1	0755	96	915.	*	1	1410	171	0.	*	1	2025	246	0.
1	0145	22	689.	*	1	0800	97	760.	*	1	1415	172	0.	*	1	2030	247	0.
1	0150	23	779.	*	1	0805	98	629.	*	1	1420	173	0.	*	1	2035	248	0.
1	0155	24	853.	*	1	0810	99	519.	*	1	1425	174	0.	*	1	2040	249	0.
1	0200	25	917.	*	1	0815	100	427.	*	1	1430	175	0.	*	1	2045	250	0.
1	0205	26	986.	*	1	0820	101	351.	*	1	1435	176	0.	*	1	2050	251	0.
1	0210	27	1078.	*	1	0825	102	288.	*	1	1440	177	0.	*	1	2055	252	0.
1	0215	28	1214.	*	1	0830	103	236.	*	1	1445	178	0.	*	1	2100	253	0.
1	0220	29	1394.	*	1	0835	104	194.	*	1	1450	179	0.	*	1	2105	254	0.
1	0225	30	1588.	*	1	0840	105	159.	*	1	1455	180	0.	*	1	2110	255	0.
1	0230	31	1762.	*	1	0845	106	130.	*	1	1500	181	0.	*	1	2115	256	0.

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1	0710	87	5878.	2079.6	3213.5	*	1	1530	187	179.	1911.3	3211.0	*	1	2350	287	175.	1789.4	3209.1	1	0355	48	139.	884.4	3191.5	*	1	1215	148	181.	1959.5	3211.8	*	1	2035	248	177.	1836.6	3209.8
1	0715	88	5150.	2070.3	3213.4	*	1	1535	188	179.	1910.1	3211.0	*	1	2355	288	175.	1788.2	3209.1	1	0400	49	145.	996.6	3194.1	*	1	1220	149	181.	1958.3	3211.8	*	1	2040	249	177.	1835.3	3209.8
1	0720	89	4489.	2061.9	3213.3	*	1	1540	189	179.	1908.9	3211.0	*	2	0000	289	175.	1787.0	3209.0	1	0405	50	151.	1122.7	3196.9	*	1	1225	150	180.	1957.1	3211.7	*	1	2045	250	177.	1834.1	3209.8
1	0725	90	3895.	2054.3	3213.2	*	1	1545	190	179.	1907.7	3210.9	*	2	0005	290	175.	1785.8	3209.0	1	0410	51	157.	1264.4	3199.8	*	1	1230	151	180.	1955.8	3211.7	*	1	2050	251	177.	1832.9	3209.8
1	0730	91	3366.	2047.6	3213.1	*	1	1550	191	179.	1906.4	3210.9	*	2	0010	291	175.	1784.6	3209.0	1	0415	52	163.	1423.0	3202.8	*	1	1235	152	180.	1954.6	3211.7	*	1	2055	252	176.	1831.7	3209.7
1	0735	92	2897.	2041.6	3213.0	*	1	1555	192	179.	1905.2	3210.9	*	2	0015	292	175.	1783.4	3209.0	1	0420	53	169.	1599.6	3206.0	*	1	1240	153	180.	1953.3	3211.7	*	1	2100	253	176.	1830.5	3209.7
1	0740	93	2483.	2036.3	3212.9	*	1	1600	193	179.	1904.0	3210.9	*	2	0020	293	175.	1782.2	3209.0	1	0425	54	175.	1795.9	3209.2	*	1	1245	154	180.	1952.1	3211.7	*	1	2105	254	176.	1829.3	3209.7
1	0745	94	2118.	2031.7	3212.8	*	1	1605	194	179.	1902.7	3210.9	*	2	0025	294	175.	1781.0	3208.9	1	0430	55	548.	2011.7	3212.6	*	1	1250	155	180.	1950.8	3211.6	*	1	2110	255	176.	1828.0	3209.7
1	0750	95	1799.	2027.6	3212.8	*	1	1610	195	179.	1901.5	3210.8	*	2	0030	295	175.	1779.8	3208.9	1	0435	56	17235.	2190.3	3215.0	*	1	1255	156	180.	1949.6	3211.6	*	1	2115	256	176.	1826.8	3209.7
1	0755	96	1521.	2024.1	3212.7	*	1	1615	196	179.	1900.3	3210.8	*	2	0035	296	175.	1778.6	3208.9	1	0440	57	28851.	2292.2	3216.5	*	1	1300	157	180.	1948.4	3211.6	*	1	2120	257	176.	1825.6	3209.6
1	0800	97	1279.	2021.0	3212.7	*	1	1620	197	179.	1899.0	3210.8	*	2	0040	297	175.	1777.4	3208.9	1	0445	58	36496.	2345.9	3217.2	*	1	1305	158	180.	1947.1	3211.6	*	1	2125	258	176.	1824.4	3209.6
1	0805	98	1072.	2018.3	3212.7	*	1	1625	198	179.	1897.8	3210.8	*	2	0045	298	175.	1776.1	3208.9	1	0450	59	41649.	2369.7	3217.5	*	1	1310	159	180.	1945.9	3211.6	*	1	2130	259	176.	1823.2	3209.6
1	0810	99	894.	2016.1	3212.6	*	1	1630	199	179.	1896.6	3210.8	*	2	0050	299	175.	1774.9	3208.8	1	0455	60	43599.	2378.8	3217.7	*	1	1315	160	180.	1944.6	3211.5	*	1	2135	260	176.	1822.0	3209.6
1	0815	100	742.	2014.1	3212.6	*	1	1635	200	179.	1895.3	3210.8	*	2	0055	300	175.	1773.7	3208.8	1	0500	61	44398.	2382.4	3217.7	*	1	1320	161	180.	1943.4	3211.5	*	1	2140	261	176.	1820.8	3209.6
						*							*							1	0505	62	44273.	2381.9	3217.7	*	1	1325	162	180.	1942.2	3211.5	*	1	2145	262	176.	1819.5	3209.5
1	0510	63	43315.	2377.4	3217.6	*	1	1330	163	180.	1940.9	3211.5	*	1	2150	263	176.	1818.3	3209.5
1	0515	64	41675.	2369.9	3217.5	*	1	1335	164	180.	1939.7	3211.5	*	1	2155	264	176.	1817.1	3209.5
1	0520	65	39539.	2360.0	3217.4	*	1	1340	165	180.	1938.4	3211.4	*	1	2200	265	176.	1815.9	3209.5
1	0525	66	37099.	2348.7	3217.2	*	1	1345	166	180.	1937.2	3211.4	*	1	2205	266	176.	1814.7	3209.5
1	0530	67	34532.	2336.8	3217.1	*	1	1350	167	180.	1936.0	3211.4	*	1	2210	267	176.	1813.5	3209.5
1	0535	68	32421.	2323.5	3216.9	*	1	1355	168	180.	1934.7	3211.4	*	1	2215	268	176.	1812.3	3209.4
1	0540	69	30573.	2307.3	3216.7	*	1	1400	169	180.	1933.5	3211.4	*	1	2220	269	176.	1811.1	3209.4
1	0545	70	28526.	2289.4	3216.4	*	1	1405	170	180.	1932.3	3211.3	*	1	2225	270	176.	1809.9	3209.4
1	0550	71	26523.	2271.8	3216.2	*	1	1410	171	180.	1931.0	3211.3	*	1	2230	271	176.	1808.6	3209.4
1	0555	72	24657.	2255.4	3216.0	*	1	1415	172	180.	1929.8	3211.3	*	1	2235	272	176.	1807.4	3209.4
1	0600	73	22940.	2240.4	3215.7	*	1	1420	173	180.	1928.5	3211.3	*	1	2240	273	176.	1806.2	3209.3
1	0605	74	21350.	2226.4	3215.5	*	1	1425	174	180.	1927.3	3211.3	*	1	2245	274	176.	1805.0	3209.3
1	0610	75	19854.	2213.3	3215.4	*	1	1430	175	179.	1926.1	3211.2	*	1	2250	275	176.	1803.8	3209.3
1	0615	76	18414.	2200.6	3215.2	*	1	1435	176	179.	1924.8	3211.2	*	1	2255	276	176.	1802.6	3209.3
1	0620	77	17005.	2188.3	3215.0	*	1	1440	177	179.	1923.6	3211.2	*	1	2300	277	176.	1801.4	3209.3
1	0625	78	15613.	2176.1	3214.8	*	1	1445	178	179.	1922.4	3211.2	*	1	2305	278	175.	1800.2	3209.2
1	0630	79	14236.	2164.0	3214.7	*	1	1450	179	179.	1921.1	3211.2	*	1	2310	279	175.	1799.0	3209.2
1	0635	80	12883.	2152.1	3214.5	*	1	1455	180	179.	1919.9	3211.1	*	1	2315	280	175.	1797.8	3209.2
1	0640	81	11569.	2140.6	3214.4	*	1	1500	181	179.	1918.7	3211.1	*	1	2320	281	175.	1796.6	3209.2
1	0645	82	10313.	2129.6	3214.2	*	1	1505	182	179.	1917.4	3211.1	*	1	2325	282	175.	1795.3	3209.2
1	0650	83	9132.	2119.2	3214.1	*	1	1510	183	179.	1916.2	3211.1	*	1	2330	283	175.	1794.1	3209.1
1	0655	84	8191.	2109.1	3213.9	*	1	1515	184	179.	1915.0	3211.1	*	1	2335	284	175.	1792.9	3209.1
1	0700	85	7375.	2098.7	3213.8	*	1	1520	185	179.	1913.7	3211.0	*	1	2340	285	175.	1791.7	3209.1
1	0705	86	6559.	2088.3	3213.6	*	1	1525	186	179.	1912.5	3211.0	*	1	2345	286	175.	1790.5	3209.1
1	0710	87	5781.	2078.4	3213.5	*	1	1530	187	179.	1911.3	3211.0	*	1	2350	287	175.	1789.3	3209.1
1	0715	88	5063.	2069.2	3213.4	*	1	1535	188	179.	1910.0	3211.0	*	1	2355	288	175.	1788.1	3209.0
1	0720	89	4412.	2060.9	3213.2	*	1	1540	189	179.	1908.8	3211.0	*	2	0000	289	175.	1786.9	3209.0
1	0725	90	3828.	2053.5	3213.1	*	1	1545	190	179.	1907.6	3210.9	*	2	0005	290	175.	1785.7	3209.0
1	0730	91	3308.	2046.8	3213.1	*	1	1550	191	179.	1906.3	3210.9	*	2	0010	291	175.	1784.5	3209.0
1	0735	92	2847.	2041.0	3213.0	*	1	1555	192	179.	1905.1	3210.9	*	2	0015	292	175.	1783.3	3209.0
1	0740	93	2440.	2035.8	3212.9	*	1	1600	193	179.	1903.9	3210.9	*	2	0020	293	175.	1782.1	3209.0
1	0745	94	2081.	2031.2	3212.8	*	1	1605	194	179.	1902.6	3210.9	*	2	0025	294	175.	1780.9	3208.9
1	0750	95	1768.	2027.2	3212.8	*	1	1610	195	179.	1901.4	3210.8	*	2	0030	295	175.	1779.7	3208.9
1	0755	96	1494.	2023.7	3212.7	*	1	1615	196	179.	1900.2	3210.8	*	2	0035	296	175.	1778.5	3208.9
1	0800	97	1257.	2020.7	3212.7	*	1	1620	197	179.	1898.9	3210.8	*	2	0040	297	175.	1777.3	3208.9
1	0805	98	1053.	2018.1	3212.7	*	1	1625	198	179.	1897.7	3210.8	*	2	0045	298	175.	1776.1	3208.9
1	0810	99	878.	2015.9	3212.6	*	1	1630	199	179.	1896.5	3210.8	*	2	0050	299	175.	1774.9	3208.8
1	0815	100	730.	2014.0	3212.6	*	1	1635	200	179.	1895.3	3210.8	*	2	0055	300	175.	1773.7	3208.8
						*							*																								

PEAK FLOW AND TIME OF MAXIMUM AVERAGE FLOW

	PEAK FLOW (CFS)	TIME (HR)	6-HR	24-HR	72-HR	24.92-HR
+	45307.	5.00	11922.	3099.	2985.	2985.
		(CFS)				
		(INCHES)	2.025	2.106	2.106	2.106
		(AC-FT)	5912.	6146.	6147.	6147.

PEAK STORAGE AND TIME OF MAXIMUM AVERAGE STORAGE

	PEAK STORAGE (AC-FT)	TIME (HR)	6-HR	24-HR	72-HR	24.92-HR
+	2387.	5.00	2119.	1719.	1656.	1656.

PEAK STAGE AND TIME OF MAXIMUM AVERAGE STAGE

	PEAK STAGE (FEET)	TIME (HR)	6-HR	24-HR	72-HR	24.92-HR
+	3217.78	5.00	3214.05	3206.13	3204.48	3204.48

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .98

1	0000	1	0.	.0	3161.0	*	1	0820	101	604.	2012.4	3212.6	*	1	1640	201	178.	1894.0	3210.7	1	0355	48	139.	884.4	3191.5	*	1	1215	148	181.	1959.5	3211.8	*	1	2035	248	177.	1836.6	3209.8
1	0005	2	0.	.0	3161.0	*	1	0825	102	499.	2011.0	3212.6	*	1	1645	202	178.	1892.8	3210.7	1	0400	49	145.	996.6	3194.1	*	1	1220	149	181.	1958.3	3211.8	*	1	2040	249	177.	1835.3	3209.8
1	0010	3	0.	.0	3161.0	*	1	0830	103	411.	2009.9	3212.5	*	1	1650	203	178.	1891.6	3210.7	1	0405	50	151.	1122.7	3196.9	*	1	1225	150	180.	1957.1	3211.7	*	1	2045	250	177.	1834.1	3209.8
1	0015	4	0.	.0	3161.0	*	1	0835	104	339.	2009.0	3212.5	*	1	1655	204	178.	1890.3	3210.7	1	0410	51	157.	1264.4	3199.8	*	1	1230	151	180.	1955.8	3211.7	*	1	2050	251	177.	1832.9	3209.8
1	0020	5	0.	.0	3161.0	*	1	0840	105	278.	2008.2	3212.5	*	1	1700	205	178.	1889.1	3210.7	1	0415	52	163.	1423.0	3202.8	*	1	1235	152	180.	1954.6	3211.7	*	1	2055	252	176.	1831.7	3209.7
1	0025	6	0.	.2	3161.0	*	1	0845	106	229.	2007.6	3212.5	*	1	1705	206	178.	1887.9	3210.6	1	0420	53	169.	1599.6	3206.0	*	1	1240	153	180.	1953.3	3211.7	*	1	2100	253	176.	1830.5	3209.7
1	0030	7	1.	.5	3161.1	*	1	0850	107	188.	2007.1	3212.5	*	1	1710	207	178.	1886.7	3210.6	1	0425	54	175.	1795.9	3209.2	*	1	1245	154	180.	1952.1	3211.7	*	1	2105	254	176.	1829.3	3209.7
1	0035	8	1.	1.1	3161.1	*	1	0855	108	182.	2006.5	3212.5	*	1	1715	208	178.	1885.4	3210.6	1	0430	55	548.	2011.7	3212.6	*	1	1250	155	180.	1950.8	3211.6	*	1	2110	255	176.	1828.0	3209.7
1	0040	9	2.	2.0	3161.2	*	1	0900	109	182.	2005.9	3212.5	*	1	1720	209	178.	1884.2	3210.6	1	0435	56	17235.	2190.3	3215.0	*	1	1255	156	180.	1949.6	3211.6	*	1	2115	256	176.	1826.8	3209.7
1	0045	10	3.	2.8	3161.3	*	1	0905	110	182.	2005.1	3212.5	*	1	1725	210	178.	1883.0	3210.6	1	0440	57	28851.	2292.2	3216.5	*	1	1300	157	180.	1948.4	3211.6	*	1	2120	257	176.	1825.6	3209.6
1	0050	11	4.	3.7	3161.4	*	1	0910	111	182.	2004.3	3212.5	*	1	1730	211	178.	1881.7	3210.5	1	0445	58	36496.	2345.9	3217.2	*	1	1305	158	180.	1947.1	3211.6	*	1	2125	258	176.	1824.4	3209.6
1	0055	12	5.	4.4	3161.5	*	1	0915	112	182.	2003.4	3212.4	*	1	1735	212	178.	1880.5	3210.5	1	0450	59	41649.	2369.7	3217.5	*	1	1310	159	180.	1945.9	3211.6	*	1	2130	259	176.	1823.2	3209.6
1	0100	13	6.	5.2	3161.6	*	1	0920	113	182.	2002.4	3212.4	*	1	1740	213	178.	1879.3	3210.5	1	0455	60	43599.	2378.8	3217.7	*	1	1315	160	180.	1944.6	3211.5	*	1	2135	260	176.	1822.0	3209.6
1	0105	14	7.	6.2	3161.7	*	1	0925	114	182.	2001.3	3212.4	*	1	1745	214	178.	1878.1	3210.5	1	0500	61	44398.	2382.4	3217.7	*	1	1320	161	180.	1943.4	3211.5	*	1	2140	261	176.	1820.8	3209.6
1	0110	15	8.	7.4	3161.8	*	1	0930	115	182.	2000.2	3212.4	*	1	1750	215	178.	1876.8	3210.5	1	0505	62	44273.	2381.9	3217.7	*	1	1325	162	180.	1942.2	3211.5	*	1	2145	262	176.	1819.5	3209.5
1	0115	16	10.	9.1	3162.0	*	1	0935	116	182.	1999.1	3212.4	*	1	1755	216	178.	1875.6	3210.4	1	0510	63	43315.	2377.4	3217.6	*	1	1330	163	180.	1940.9	3211.5	*	1	2150	263	176.	1818.3	3209.5
1	0120	17	11.	11.2	3162.1	*	1	0940	117	182.	1997.9	3212.4	*	1	1800	217	178.	1874.4	3210.4	1	0515	64	41675.	2369.9	3217.5	*	1	1335	164	180.	1939.7	3211.5	*	1	2155	264	176.	1817.1	3209.5
1	0125	18	12.	13.9	3162.3	*	1	0945	118	182.	1996.7	3212.3	*	1	1805	218	178.	1873.2	3210.4	1	0520	65	39539.	2360.0	3217.4	*	1	1340	165	180.	1938.4	3211.4	*	1	2200	265	176.	1815.9	3209.5
1	0130	19	14.	17.4	3162.4	*	1	0950	119	182.	1995.6	3212.3	*	1	1810	219	178.	1871.9	3210.4	1	0525	66	37099.	2348.7	3217.2	*	1	1345	166	180.	1937.2	3211.4	*	1	2205	266	176.	1814.7	3209.5
1	0135	20	16.	21.7	3162.6	*	1	0955	120	182.	1994.3	3212.3	*	1	1815	220	178.	1870.7	3210.4	1	0530	67	34532.	2336.8	3217.1	*	1	1350	167	180.	1936.0	3211.4	*	1	2210	267	176.	1813.5	3209.5
1	0140	21	19.	27.0	3162.9	*	1	1000	121	182.	1993.1	3212.3	*	1	1820	221	178.	1869.5	3210.3	1	0535	68	32421.	2323.5	3216.9	*	1	1355	168	180.	1934.7	3211.4	*	1	2215	268	176.	1812.3	3209.4
1	0145	22	22.	33.3	3163.2	*	1	1005	122	182.	1991.9	3212.3	*	1	1825	222	178.	1868.3	3210.3	1	0540	69	30573.	2307.3	3216.7	*	1	1400	169	180.	1933.5	3211.4	*	1	2220	269	176.	1811.1	3209.4
1	0150	23	25.	40.6	3163.6	*	1	1010	123	182.	1990.7	3212.3	*	1	1830	223	178.	1867.0	3210.3	1	0545	70	28526.	2289.4	3216.4	*	1	1405	170	180.	1932.3	3211.3	*	1	2225	270	176.	1809.9	3209.4
1	0155	24	29.	48.5	3164.0	*	1	1015	124	181.	1989.4	3212.2	*	1	1835	224	178.	1865.8	3210.3	1	0550	71	26523.	2271.8	3216.2	*	1	1410	171	180.	1931.0	3211.3	*	1	2230	271	176.	1808.6	3209.4
1	0200	25	33.	57.1	3164.5	*	1	1020	125	181.	1988.2	3212.2	*	1	1840	225	178.	1864.6	3210.3	1	0555	72	24657.	2255.4	3216.0	*	1	1415	172	180.	1929.8	3211.3	*	1	2235	272	176.	1807.4	3209.4
1	0205	26	37.	66.2	3164.9	*	1	1025	126	181.	1986.9	3212.2	*	1	1845	226	177.	1863.4	3210.2	1	0600	73	22940.	2240.4	3215.7	*	1	1420	173	180.	1928.5	3211.3	*	1	2240	273	176.	1806.2	3209.3
1	0210	27	42.	75.9	3165.4	*	1	1030	127	181.	1985.7	3212.2	*	1	1850	227	177.	1862.2	3210.2	1	0605	74	21350.	2226.4	3215.5	*	1	1425	174	180.	1927.3	3211.3	*	1	2245	274	176.	1805.0	3209.3
1	0215	28	47.	86.6	3166.0	*	1	1035	128	181.	1984.5	3212.2	*	1	1855	228	177.	1860.9	3210.2	1	0610	75	19854.	2213.3	3215.4	*	1	1430	175	179.	1926.1	3211.2	*	1	2250	275	176.	1803.8	3209.3
1	0220	29	53.	98.4	3166.6	*	1	1040	129	181.	1983.2	3212.1	*	1	1900	229	177.	1859.7	3210.2	1	0615	76	18414.	2200.6	3215.2	*	1	1435	176	179.	1924.8	3211.2	*	1	2255	276	176.	1802.6	3209.3
1	0225	30	58.	111.8	3167.2	*	1	1045	130	181.	1982.0	3212.1	*	1	1905	230	177.	1858.5	3210.2	1	0620	77	17005.	2188.3	3215.0	*	1	1440	177	179.	1923.6	3211.2	*	1	2300	277	176.	1801.4	3209.3
1	0230	31	61.	126.6	3167.8	*	1	1050	131	181.	1980.7	3212.1	*	1	1910	231	177.	1857.3	3210.1	1	0625	78	15613.	2176.1	3214.8	*	1	1445	178	179.	1922.4	3211.2	*	1	2305	278	175.	1800.2	3209.2
1	0235	32	64.	142.7	3168.4	*	1	1055	132	181.	1979.5	3212.1	*	1	1915	232	177.	1856.0	3210.1	1	0630	79	14236.	2164.0	3214.7	*	1	1450	179	179.	1921.1	3211.2	*	1	2310	279	175.	1799.0	3209.2
1	0240	33	67.	160.0	3169.1	*	1	1100	133	181.	1978.2	3212.1	*	1	1920	233	177.	1854.8	3210.1	1	0635	80	12883.	2152.1	3214.5	*	1	1455	180	179.	1919.9	3211.1	*	1	2315	280	175.	1797.8	3209.2
1	0245	34	70.	178.8	3169.9	*	1	1105	134	181.	1977.0	3212.0	*	1	1925	234	177.	1853.6	3210.1	1	0640	81	11569.	2140.6	3214.4	*	1	1500	181	179.	1918.7	3211.1	*	1	2320	281	175.	1796.6	3209.2
1	0250	35	74.	199.6	3170.7	*	1	1110	135	181.	1975.7	3212.0	*	1	1930	235	177.	1852.4	3210.1	1	0645	82	10313.	2129.6	3214.2	*	1	1505	182	179.	1917.4	3211.1	*	1	2325	282	175.	1795.3	3209.2
1	0255	36	78.	222.2	3171.6	*	1	1115	136	181.	1974.5	3212.0	*	1	1935	236	177.	1851.2	3210.1	1	0650	83	9132.	2119.2	3214.1	*	1	1510	183	179.	1916.2	3211.1	*	1	2330	283	175.	1794.1	3209.1
1	0300	37	82.	246.3	3172.5	*	1	1120	137	181.	1973.2	3212.0	*	1	1940	237	177.	1849.9	3210.0	1	0655	84	8191.	2109.1	3213.9	*	1	1515	184	179.	1915.0	3211.1	*	1	2335	284	175.	1792.9	3209.1
1	0305	38	86.	272.0	3173.5	*	1	1125	138	181.	1972.0	3212.0	*	1	1945	238	177.	1848.7	3210.0	1	0700	85	7375.	2098.7	3213.8	*	1	1520	185	179.	1913.7	3211.0	*	1	2340	285	175.	1791.7	3209.1
1	0310	39	89.	300.1	3174.4	*	1	1130	139	181.	1970.7	3211.9	*	1	1950	239	177.	1847.5	3210.0	1	0705	86	6559.	2088.3	3213.6	*	1	1525	186	179.	1912.5	3211.0	*	1	2345	286	175.	1790.5	3209.1
1	0315	40	94.	331.5	3175.6	*	1	1135	140	181.	1969.5	3211.9	*	1	1955	240	177.	1846.3	3210.0	1	0710	87	5781.	2078.4	3213.5	*	1	1530	187	179.	1911.3	3211.0	*	1	2350	287	175.	1789.3	3209.1
1	0320	41	98.	368.0	3176.9	*	1	1140	141	181.	1968.3	3211.9	*	1	2000	241	177.	1845.1	3210.0	1	0715	88	5063.	2069.2	3213.4	*	1	1535	188	179.	1910.0	3211.0	*	1	2355	288	175.	1788.1	3209.0
1	0325	42	103.	412.1	3178.3	*	1	1145	142	181.	1967.0	3211.9	*	1	2005	242	177.	1843.9	3209.9	1	0720	89	4412.	2060.9	3213.2	*	1	1540	189	179.	1908.8	3211.0	*	2	0000	289	175.	1786.9	3209.0
1	0330	43	108.	466.7	3180.0	*	1	1150	143	181.	1965.8	3211.9	*	1	2010	243	177.	1842.6	3209.9	1	0725	90	3828.	2053.5	3213.1	*	1	1545	190	179.	1907.6	3210.9	*	2	0005	290	175.	1785.7	3209.0
1	0335	44	114.	533.0	3182.1	*	1	1155	144	181.	1964.5	3211.8	*	1	2015	244	177.	1841.4	3

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+ (FEET)	(HR)				
3217.48	5.00	3213.87	3205.80	3204.16	3204.16

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .91

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	3161.0	1		0820	101	557.	2011.8	3212.6	1		1640	201	178.	1893.5	3210.7
1		0005	2	0.	.0	3161.0	1		0825	102	460.	2010.5	3212.5	1		1645	202	178.	1892.3	3210.7
1		0010	3	0.	.0	3161.0	1		0830	103	379.	2009.5	3212.5	1		1650	203	178.	1891.1	3210.7
1		0015	4	0.	.0	3161.0	1		0835	104	312.	2008.7	3212.5	1		1655	204	178.	1889.9	3210.7
1		0020	5	0.	.0	3161.0	1		0840	105	257.	2008.0	3212.5	1		1700	205	178.	1888.6	3210.6
1		0025	6	0.	.1	3161.0	1		0845	106	211.	2007.4	3212.5	1		1705	206	178.	1887.4	3210.6
1		0030	7	0.	.3	3161.0	1		0850	107	182.	2006.9	3212.5	1		1710	207	178.	1886.2	3210.6
1		0035	8	1.	.8	3161.1	1		0855	108	182.	2006.3	3212.5	1		1715	208	178.	1884.9	3210.6
1		0040	9	2.	1.4	3161.2	1		0900	109	182.	2005.6	3212.5	1		1720	209	178.	1883.7	3210.6
1		0045	10	2.	2.1	3161.2	1		0905	110	182.	2004.8	3212.5	1		1725	210	178.	1882.5	3210.5
1		0050	11	3.	2.7	3161.3	1		0910	111	182.	2003.9	3212.5	1		1730	211	178.	1881.3	3210.5
1		0055	12	4.	3.3	3161.4	1		0915	112	182.	2003.0	3212.4	1		1735	212	178.	1880.0	3210.5
1		0100	13	4.	3.8	3161.4	1		0920	113	182.	2001.9	3212.4	1		1740	213	178.	1878.8	3210.5
1		0105	14	5.	4.5	3161.5	1		0925	114	182.	2000.9	3212.4	1		1745	214	178.	1877.6	3210.5
1		0110	15	6.	5.3	3161.6	1		0930	115	182.	1999.8	3212.4	1		1750	215	178.	1876.4	3210.5
1		0115	16	7.	6.5	3161.7	1		0935	116	182.	1998.6	3212.4	1		1755	216	178.	1875.1	3210.4
1		0120	17	9.	8.0	3161.9	1		0940	117	182.	1997.5	3212.4	1		1800	217	178.	1873.9	3210.4
1		0125	18	10.	10.0	3162.1	1		0945	118	182.	1996.3	3212.3	1		1805	218	178.	1872.7	3210.4
1		0130	19	12.	12.5	3162.2	1		0950	119	182.	1995.1	3212.3	1		1810	219	178.	1871.5	3210.4
1		0135	20	13.	15.6	3162.3	1		0955	120	182.	1993.9	3212.3	1		1815	220	178.	1870.2	3210.4
1		0140	21	15.	19.6	3162.5	1		1000	121	182.	1992.6	3212.3	1		1820	221	178.	1869.0	3210.3
1		0145	22	17.	24.4	3162.8	1		1005	122	182.	1991.4	3212.3	1		1825	222	178.	1867.8	3210.3
1		0150	23	20.	29.9	3163.1	1		1010	123	181.	1990.2	3212.2	1		1830	223	178.	1866.6	3210.3
1		0155	24	23.	35.9	3163.4	1		1015	124	181.	1988.9	3212.2	1		1835	224	178.	1865.3	3210.3
1		0200	25	26.	42.5	3163.7	1		1020	125	181.	1987.7	3212.2	1		1840	225	178.	1864.1	3210.3
1		0205	26	29.	49.5	3164.1	1		1025	126	181.	1986.5	3212.2	1		1845	226	177.	1862.9	3210.2
1		0210	27	33.	57.1	3164.5	1		1030	127	181.	1985.2	3212.2	1		1850	227	177.	1861.7	3210.2
1		0215	28	37.	65.5	3164.9	1		1035	128	181.	1984.0	3212.2	1		1855	228	177.	1860.5	3210.2
1		0220	29	42.	75.0	3165.4	1		1040	129	181.	1982.7	3212.1	1		1900	229	177.	1859.2	3210.2
1		0225	30	47.	85.9	3165.9	1		1045	130	181.	1981.5	3212.1	1		1905	230	177.	1858.0	3210.2
1		0230	31	53.	98.0	3166.5	1		1050	131	181.	1980.2	3212.1	1		1910	231	177.	1856.8	3210.1
1		0235	32	58.	111.2	3167.2	1		1055	132	181.	1979.0	3212.1	1		1915	232	177.	1855.6	3210.1
1		0240	33	60.	125.5	3167.7	1		1100	133	181.	1977.7	3212.1	1		1920	233	177.	1854.4	3210.1
1		0245	34	63.	141.2	3168.4	1		1105	134	181.	1976.5	3212.0	1		1925	234	177.	1853.1	3210.1
1		0250	35	67.	158.6	3169.1	1		1110	135	181.	1975.2	3212.0	1		1930	235	177.	1851.9	3210.1
1		0255	36	70.	177.6	3169.8	1		1115	136	181.	1974.0	3212.0	1		1935	236	177.	1850.7	3210.0
1		0300	37	74.	198.0	3170.7	1		1120	137	181.	1972.8	3212.0	1		1940	237	177.	1849.5	3210.0
1		0305	38	78.	219.9	3171.6	1		1125	138	181.	1971.5	3212.0	1		1945	238	177.	1848.3	3210.0
1		0310	39	82.	243.8	3172.5	1		1130	139	181.	1970.3	3211.9	1		1950	239	177.	1847.0	3210.0
1		0315	40	85.	270.7	3173.4	1		1135	140	181.	1969.0	3211.9	1		1955	240	177.	1845.8	3210.0
1		0320	41	90.	302.1	3174.5	1		1140	141	181.	1967.8	3211.9	1		2000	241	177.	1844.6	3209.9
1		0325	42	95.	340.5	3175.9	1		1145	142	181.	1966.5	3211.9	1		2005	242	177.	1843.4	3209.9
1		0330	43	101.	388.3	3177.5	1		1150	143	181.	1965.3	3211.9	1		2010	243	177.	1842.2	3209.9
1		0335	44	106.	446.8	3179.4	1		1155	144	181.	1964.0	3211.8	1		2015	244	177.	1840.9	3209.9
1		0340	45	113.	514.4	3181.5	1		1200	145	181.	1962.8	3211.8	1		2020	245	177.	1839.7	3209.9
1		0345	46	119.	588.7	3183.7	1		1205	146	181.	1961.5	3211.8	1		2025	246	177.	1838.5	3209.8
1		0350	47	125.	669.8	3186.0	1		1210	147	181.	1960.3	3211.8	1		2030	247	177.	1837.3	3209.8
1		0355	48	131.	759.4	3188.4	1		1215	148	181.	1959.1	3211.8	1		2035	248	177.	1836.1	3209.8
1		0400	49	137.	859.6	3190.9	1		1220	149	180.	1957.8	3211.7	1		2040	249	177.	1834.9	3209.8
1		0405	50	143.	972.5	3193.6	1		1225	150	180.	1956.6	3211.7	1		2045	250	177.	1833.6	3209.8
1		0410	51	150.	1099.7	3196.4	1		1230	151	180.	1955.3	3211.7	1		2050	251	177.	1832.4	3209.8
1		0415	52	156.	1242.2	3199.3	1		1235	152	180.	1954.1	3211.7	1		2055	252	176.	1831.2	3209.7
1		0420	53	163.	1401.2	3202.4	1		1240	153	180.	1952.8	3211.7	1		2100	253	176.	1830.0	3209.7
1		0425	54	168.	1578.1	3205.6	1		1245	154	180.	1951.6	3211.6	1		2105	254	176.	1828.8	3209.7
1		0430	55	175.	1774.2	3208.8	1		1250	155	180.	1950.4	3211.6	1		2110	255	176.	1827.6	3209.7
1		0435	56	181.	1989.9	3212.2	1		1255	156	180.	1949.1	3211.6	1		2115	256	176.	1826.4	3209.7
1		0440	57	15248.	2172.9	3214.8	1		1300	157	180.	1947.9	3211.6	1		2120	257	176.	1825.1	3209.6
1		0445	58	27340.	2279.0	3216.3	1		1305	158	180.	1946.6	3211.6	1		2125	258	176.	1823.9	3209.6
1		0450	59	33910.	2334.0	3217.0	1		1310	159	180.	1945.4	3211.5	1		2130	259	176.	1822.7	3209.6
1		0455	60	39040.	2357.7	3217.4	1		1315	160	180.	1944.2	3211.5	1		2135	260	176.	1821.5	3209.6
1		0500	61	40288.	2363.4	3217.5	1		1320	161	180.	1942.9	3211.5	1		2140	261	176.	1820.3	3209.6
1		0505	62	40280.	2363.4	3217.5	1		1325	162	180.	1941.7	3211.5	1		2145	262	176.	1819.1	3209.5
1		0510	63	39450.	2359.6	3217.4	1		1330	163	180.	1940.4	3211.5	1		2150	263	176.	1817.9	3209.5
1		0515	64	37985.	2352.8	3217.3	1		1335	164	180.	1939.2	3211.4	1		2155	264	176.	1816.6	3209.5
1		0520	65	36063.	2343.9	3217.2	1		1340	165	180.	1938.0	3211.4	1		2200	265	176.	1815.4	3209.5
1		0525	66	33860.	2333.7	3217.0	1		1345	166	180.	1936.7	3211.4	1		2205	266	176.	1814.2	3209.5
1		0530	67	32127.	2321.0	3216.9	1		1350	167	180.	1935.5	3211.4	1		2210	267	176.	1813.0	3209.4
1		0535	68	30270.	2304.7	3216.6	1		1355	168	180.	1934.2	3211.4	1		2215	268	176.	1811.8	3209.4
1		0540	69	28231.	2286.8	3216.4	1		1400	169	180.	1933.0	3211.3	1		2220	269	176.	1810.6	3209.4
1		0545	70	26216.	2269.1	3216.1	1		1405	170	180.	1931.8	3211.3	1		2225	270	176.	1809.4	3209.4
1		0550	71	24328.	2252.5	3215.9	1		1410	171	180.	1930.5	3211.3	1		2230	271	176.	1808.2	3209.4
1		0555	72	22603.	2237.4	3215.7	1		1415	172	180.	1929.3	3211.3	1		2235	272	176.	1807.0	3209.3
1		0600	73	21029.	2223.6	3215.5	1		1420	173	180.	1928.1	3211.3	1		2240	273	176.	1805.8	3209.3
1		0605	74	19577.	2210.8	3215.3	1		1425	174	180.	1926.8	3211.3	1		2245	274	176.	1804.5	3209.3
1		0610	75	18212.	2198.9	3215.2	1		1430	175	179.	1925.6	3211.2	1		2250	275	176.	1803.3	3209.3
1		0615	76	16898.	2187.3	3215.0	1		1435	176	179.	1924.4	3211.2	1		2255	276	176.	1802.1	3209.3
1		0620	77	15611.	2176.0	3214.8	1		1440	177	179.	1923.1	3211.2	1		2300	277	176.	1800.9	3209.3
1		0625	78	14338.	2164.9	3214.7	1		1445	178	179.	1921.9	3211.2	1		2305	278	175.	1799.7	3209.2
1		0630	79	13077.	2153.8	3214.5	1		1450	179	179.	1920.6	3211.2	1		2310	279	175.	1798.5	3209.2
1		0635	80	11837.	2142.9	3214.4	1		1455	180	179.	1919.4	3211.1	1		2315	280	175.	1797.3	3209.2
1		0640	81	10633.	2132.4	3214.2	1		1500	181	179.	1918.2	3211.1	1		2320	281	175.	1796.1	3209.2
1		0645	82	9480.	2122.3	3214.1	1		1505	182	179.	1916.9	3211.1	1		2325	282	175.	1794.9	3209.2
1		0650	83	8460.	2112.5	3214.0	1		1510	183	179.	1915.7	3211.1	1		2330	283	175.	1793.7	3209.1
1		0655	84	7676.	2102.5	3213.8	1		1515	184	179.	1914.5	3211.1	1		2335	284	175.	1792.5	3209.1
1		0700	85	6866.	2092.2	3213.7	1		1520	185	179.	1913.2	3211.0	1		2340	285	175.	1791.3	3209.1
1		0705	86	6080.	2082.2	3213.5	1		1525	186	179.	1912.0	3211.0	1		2345	286	175.	1790.0	3209.1
1		0710	87	5346.	2072.8	3213.4	1		1530	187	179.	1910.8	3211.0	1		2350	287	175.	1788.8	3209.1
1		0715	88	4674.	2064.3	3213.3	1		1535	188	179.	1909.5	3211.0	1		2355	288	175.	1787.6	3209.0
1		0720	89	4069.	2056.5	3213.2	1		1540	189	179.	1908.3	3211.0	2		0000	289	175.	1786.4	3209.0
1		0725	90	3528.	2049.7	3213.1	1		1545	190	179.	1907.1	3210.9	2		0005	290	175.	1785.2	3209.0
1		0730	91	3047.	2043.5	3213.0	1		1550	191	179.	1905.8	3210.9	2		0010	291	175.	1784.0	3209.0
1		0735	92	2622.	2038.1	3212.9	1		1555	192	179.	1904.6	3210.9	2		0015	292	175.	1782.8	3209.0
1		0740	93	2247.	2033.3	3212.9	1		1600	193	179.	1903.4	3210.9	2		0020	293	175.	1781.6	3208.9
1		0745	94	1917.	2029.1	3212.8	1		1605	194	179.	1902.2	3210.9	2		0025	294	175.	1780.4	3208.9
1		0750	95	1628.	2025.4	3212.8	1		1610	195	179.	1900.9	3210.8	2		0030	295	175.	1779.2	3208.9
1		0755	96	1376.	2022.2	3212.7	1		1615	196	179.	1899.7	3210.8	2		0035	296	175.	1778.0	3208.9
1		0800	97	1158.	2019.4	3212.7	1		1620	197	179.	1898.5	3210.8	2		0040	297	175.	1776.8	3208.9
1		0805	98	970.	2017.0	3212.6	1		1625	198	179.	1897.2	3210.8	2		0045	298	175.	1775.6	3208.9
1		0810	99	809.	2015.0	3212.6	1		1630	199	179.	1896.0	3210.8	2		0050	299	175.	1774.4	3208.8
1		0815	100	672.	2013.2	3212.6	1		1635	200	178.	1894.8	3210.7	2		0055	300	175.	1773.2	3208.8

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
40288.	5.00	10101.	2642.	2545.	2545.
	(CFS)				
	(INCHES)	1.716	1.795	1.795	1.795
	(AC-FT)	5009.	5241.	5241.	5241.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
2363.	5.00	2104.	1704.	1641.	1641.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3217.45	5.00	3213.85	3205.77	3204.12	3204.12

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .90

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	3161.0	1		0820	101	553.	2011.7	3212.6	1		1640	201	178.	1893.5	3210.7
1		0005	2	0.	.0	3161.0	1		0825	102	457.	2010.5	3212.5	1		1645	202	178.	1892.3	3210.7
1		0010	3	0.	.0	3161.0	1		0830	103	377.	2009.5	3212.5	1		1650	203	178.	1891.0	3210.7
1		0015	4	0.	.0	3161.0	1		0835	104	310.	2008.6	3212.5	1		1655	204	178.	1889.8	3210.7
1		0020	5	0.	.0	3161.0	1		0840	105	255.	2007.9	3212.5	1		1700	205	178.	1888.6	3210.6
1		0025	6	0.	.1	3161.0	1		0845	106	209.	2007.3	3212.5	1		1705	206	178.	1887.4	3210.6
1		0030	7	0.	.3	3161.0	1		0850	107	182.	2006.8	3212.5	1		1710	207	178.	1886.1	3210.6
1		0035	8	1.	.8	3161.1	1		0855	108	182.	2006.3	3212.5	1		1715	208	178.	1884.9	3210.6
1		0040	9	2.	1.4	3161.2	1		0900	109	182.	2005.6	3212.5	1		1720	209	178.	1883.7	3210.6
1		0045	10	2.	2.1	3161.2	1		0905	110	182.	2004.8	3212.5	1		1725	210	178.	1882.5	3210.5
1		0050	11	3.	2.7	3161.3	1		0910	111	182.	2003.9	3212.5	1		1730	211	178.	1881.2	3210.5
1		0055	12	4.	3.2	3161.4	1		0915	112	182.	2002.9	3212.4	1		1735	212	178.	1880.0	3210.5
1		0100	13	4.	3.7	3161.4	1		0920	113	182.	2001.9	3212.4	1		1740	213	178.	1878.8	3210.5
1		0105	14	5.	4.4	3161.5	1		0925	114	182.	2000.8	3212.4	1		1745	214	178.	1877.6	3210.5
1		0110	15	6.	5.2	3161.6	1		0930	115	182.	1999.7	3212.4	1		1750	215	178.	1876.3	3210.4
1		0115	16	7.	6.3	3161.7	1		0935	116	182.	1998.6	3212.4	1		1755	216	178.	1875.1	3210.4
1		0120	17	9.	7.8	3161.9	1		0940	117	182.	1997.4	3212.4	1		1800	217	178.	1873.9	3210.4
1		0125	18	10.	9.7	3162.0	1		0945	118	182.	1996.2	3212.3	1		1805	218	178.	1872.7	3210.4
1		0130	19	11.	12.1	3162.2	1		0950	119	182.	1995.0	3212.3	1		1810	219	178.	1871.4	3210.4
1		0135	20	13.	15.2	3162.3	1		0955	120	182.	1993.8	3212.3	1		1815	220	178.	1870.2	3210.4
1		0140	21	15.	19.1	3162.5	1		1000	121	182.	1992.6	3212.3	1		1820	221	178.	1869.0	3210.3
1		0145	22	17.	23.8	3162.8	1		1005	122	182.	1991.4	3212.3	1		1825	222	178.	1867.8	3210.3
1		0150	23	20.	29.1	3163.0	1		1010	123	181.	1990.1	3212.2	1		1830	223	178.	1866.5	3210.3
1		0155	24	23.	35.1	3163.3	1		1015	124	181.	1988.9	3212.2	1		1835	224	178.	1865.3	3210.3
1		0200	25	26.	41.5	3163.7	1		1020	125	181.	1987.7	3212.2	1		1840	225	178.	1864.1	3210.3
1		0205	26	29.	48.4	3164.0	1		1025	126	181.	1986.4	3212.2	1		1845	226	177.	1862.9	3210.2
1		0210	27	32.	55.8	3164.4	1		1030	127	181.	1985.2	3212.2	1		1850	227	177.	1861.6	3210.2
1		0215	28	36.	64.1	3164.8	1		1035	128	181.	1983.9	3212.2	1		1855	228	177.	1860.4	3210.2
1		0220	29	41.	73.4	3165.3	1		1040	129	181.	1982.7	3212.1	1		1900	229	177.	1859.2	3210.2
1		0225	30	46.	84.0	3165.8	1		1045	130	181.	1981.4	3212.1	1		1905	230	177.	1858.0	3210.2
1		0230	31	52.	95.9	3166.4	1		1050	131	181.	1980.2	3212.1	1		1910	231	177.	1856.8	3210.1
1		0235	32	57.	109.0	3167.1	1		1055	132	181.	1978.9	3212.1	1		1915	232	177.	1855.5	3210.1
1		0240	33	60.	123.1	3167.6	1		1100	133	181.	1977.7	3212.1	1		1920	233	177.	1854.3	3210.1
1		0245	34	63.	138.6	3168.3	1		1105	134	181.	1976.5	3212.0	1		1925	234	177.	1853.1	3210.1
1		0250	35	66.	155.7	3169.0	1		1110	135	181.	1975.2	3212.0	1		1930	235	177.	1851.9	3210.1
1		0255	36	70.	174.5	3169.7	1		1115	136	181.	1974.0	3212.0	1		1935	236	177.	1850.7	3210.0
1		0300	37	73.	194.6	3170.5	1		1120	137	181.	1972.7	3212.0	1		1940	237	177.	1849.4	3210.0
1		0305	38	77.	216.2	3171.4	1		1125	138	181.	1971.5	3212.0	1		1945	238	177.	1848.2	3210.0
1		0310	39	81.	239.8	3172.3	1		1130	139	181.	1970.2	3211.9	1		1950	239	177.	1847.0	3210.0
1		0315	40	85.	266.3	3173.3	1		1135	140	181.	1969.0	3211.9	1		1955	240	177.	1845.8	3210.0

| | | |

1	0755	96	1353.	2021.9	3212.7	*	1	1615	196	179.	1899.6	3210.8	*	2	0035	296	175.	1777.9	3208.9
1	0800	97	1138.	2019.2	3212.7	*	1	1620	197	179.	1898.4	3210.8	*	2	0040	297	175.	1776.7	3208.9
1	0805	98	954.	2016.8	3212.6	*	1	1625	198	179.	1897.1	3210.8	*	2	0045	298	175.	1775.5	3208.8
1	0810	99	795.	2014.8	3212.6	*	1	1630	199	179.	1895.9	3210.8	*	2	0050	299	175.	1774.3	3208.8
1	0815	100	661.	2013.1	3212.6	*	1	1635	200	178.	1894.7	3210.7	*	2	0055	300	175.	1773.1	3208.8
						*							*						

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
	(CFS)				
+ 39494.	5.08	9815.	2571.	2476.	2476.
	(INCHES)	1.667	1.747	1.747	1.747
	(AC-FT)	4867.	5099.	5099.	5099.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
2360.	5.08	2102.	1701.	1639.	1639.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3217.40	5.08	3213.81	3205.71	3204.07	3204.07

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .88

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000		1	0.	.0	3161.0	* 1	0820		101	540.	2011.6	3212.6	* 1	1640		201	178.	1893.4	3210.7
1	0005		2	0.	.0	3161.0	* 1	0825		102	446.	2010.4	3212.5	* 1	1645		202	178.	1892.1	3210.7
1	0010		3	0.	.0	3161.0	* 1	0830		103	368.	2009.4	3212.5	* 1	1650		203	178.	1890.9	3210.7
1	0015		4	0.	.0	3161.0	* 1	0835		104	303.	2008.5	3212.5	* 1	1655		204	178.	1889.7	3210.7
1	0020		5	0.	.0	3161.0	* 1	0840		105	249.	2007.9	3212.5	* 1	1700		205	178.	1888.5	3210.6
1	0025		6	0.	.1	3161.0	* 1	0845		106	205.	2007.3	3212.5	* 1	1705		206	178.	1887.2	3210.6
1	0030		7	0.	.3	3161.0	* 1	0850		107	182.	2006.8	3212.5	* 1	1710		207	178.	1886.0	3210.6
1	0035		8	1.	.7	3161.1	* 1	0855		108	182.	2006.2	3212.5	* 1	1715		208	178.	1884.8	3210.6
1	0040		9	1.	1.3	3161.1	* 1	0900		109	182.	2005.5	3212.5	* 1	1720		209	178.	1883.5	3210.6
1	0045		10	2.	1.9	3161.2	* 1	0905		110	182.	2004.7	3212.5	* 1	1725		210	178.	1882.3	3210.5
1	0050		11	3.	2.4	3161.3	* 1	0910		111	182.	2003.8	3212.5	* 1	1730		211	178.	1881.1	3210.5
1	0055		12	3.	2.9	3161.3	* 1	0915		112	182.	2002.8	3212.4	* 1	1735		212	178.	1879.9	3210.5
1	0100		13	4.	3.4	3161.4	* 1	0920		113	182.	2001.8	3212.4	* 1	1740		213	178.	1878.6	3210.5
1	0105		14	4.	4.0	3161.4	* 1	0925		114	182.	2000.7	3212.4	* 1	1745		214	178.	1877.4	3210.5
1	0110		15	5.	4.7	3161.5	* 1	0930		115	182.	1999.6	3212.4	* 1	1750		215	178.	1876.2	3210.4
1	0115		16	6.	5.7	3161.6	* 1	0935		116	182.	1998.5	3212.4	* 1	1755		216	178.	1875.0	3210.4
1	0120		17	8.	7.1	3161.8	* 1	0940		117	182.	1997.3	3212.4	* 1	1800		217	178.	1873.7	3210.4
1	0125		18	10.	8.8	3162.0	* 1	0945		118	182.	1996.1	3212.3	* 1	1805		218	178.	1872.5	3210.4
1	0130		19	11.	11.0	3162.1	* 1	0950		119	182.	1994.9	3212.3	* 1	1810		219	178.	1871.3	3210.4
1	0135		20	12.	13.8	3162.2	* 1	0955		120	182.	1993.7	3212.3	* 1	1815		220	178.	1870.1	3210.4
1	0140		21	14.	17.3	3162.4	* 1	1000		121	182.	1992.5	3212.3	* 1	1820		221	178.	1868.8	3210.3
1	0145		22	16.	21.6	3162.6	* 1	1005		122	182.	1991.2	3212.3	* 1	1825		222	178.	1867.6	3210.3
1	0150		23	18.	26.6	3162.9	* 1	1010		123	181.	1990.0	3212.2	* 1	1830		223	178.	1866.4	3210.3
1	0155		24	21.	32.1	3163.2	* 1	1015		124	181.	1988.8	3212.2	* 1	1835		224	178.	1865.2	3210.3
1	0200		25	24.	38.0	3163.5	* 1	1020		125	181.	1987.5	3212.2	* 1	1840		225	178.	1863.9	3210.3
1	0205		26	27.	44.4	3163.8	* 1	1025		126	181.	1986.3	3212.2	* 1	1845		226	177.	1862.7	3210.2
1	0210		27	30.	51.3	3164.2	* 1	1030		127	181.	1985.0	3212.2	* 1	1850		227	177.	1861.5	3210.2
1	0215		28	34.	58.9	3164.5	* 1	1035		128	181.	1983.8	3212.1	* 1	1855		228	177.	1860.3	3210.2
1	0220		29	38.	67.7	3165.0	* 1	1040		129	181.	1982.5	3212.1	* 1	1900		229	177.	1859.1	3210.2
1	0225		30	43.	77.7	3165.5	* 1	1045		130	181.	1981.3	3212.1	* 1	1905		230	177.	1857.8	3210.2
1	0230		31	48.	88.9	3166.1	* 1	1050		131	181.	1980.1	3212.1	* 1	1910		231	177.	1856.6	3210.1
1	0235		32	54.	101.2	3166.7	* 1	1055		132	181.	1978.8	3212.1	* 1	1915		232	177.	1855.4	3210.1
1	0240		33	58.	114.5	3167.3	* 1	1100		133	181.	1977.6	3212.1	* 1	1920		233	177.	1854.2	3210.1
1	0245		34	61.	129.2	3167.9	* 1	1105		134	181.	1976.3	3212.0	* 1	1925		234	177.	1853.0	3210.1
1	0250		35	64.	145.5	3168.6	* 1	1110		135	181.	1975.1	3212.0	* 1	1930		235	177.	1851.7	3210.1
1	0255		36	67.	163.3	3169.3	* 1	1115		136	181.	1973.8	3212.0	* 1	1935		236	177.	1850.5	3210.0
1	0300		37	71.	182.5	3170.0	* 1	1120		137	181.	1972.6	3212.0	* 1	1940		237	177.	1849.3	3210.0
1	0305		38	75.	203.0	3170.9	* 1	1125		138	181.	1971.3	3212.0	* 1	1945		238	177.	1848.1	3210.0
1	0310		39	79.	225.6	3171.8	* 1	1130		139	181.	1970.1	3211.9	* 1	1950		239	177.	1846.9	3210.0
1	0315		40	83.	251.0	3172.7	* 1	1135		140	181.	1968.8	3211.9	* 1	1955		240	177.	1845.6	3210.0
1	0320		41	87.	280.7	3173.8	* 1	1140		141	181.	1967.6	3211.9	* 1	2000		241	177.	1844.4	3209.9
1	0325		42	92.	317.2	3175.1	* 1	1145		142	181.	1966.3	3211.9	* 1	2005		242	177.	1843.2	3209.9
1	0330		43	98.	362.7	3176.7	* 1	1150		143	181.	1965.1	3211.9	* 1	2010		243	177.	1842.0	3209.9
1	0335		44	103.	418.5	3178.5	* 1	1155		144	181.	1963.9	3211.8	* 1	2015		244	177.	1840.8	3209.9
1	0340		45	110.	483.2	3180.5	* 1	1200		145	181.	1962.6	3211.8	* 1	2020		245	177.	1839.6	3209.9
1	0345		46	116.	554.3	3182.7	* 1	1205		146	181.	1961.4	3211.8	* 1	2025		246	177.	1838.3	3209.8
1	0350		47	122.	632.1	3184.9	* 1	1210		147	181.	1960.1	3211.8	* 1	2030		247	177.	1837.1	3209.8
1	0355		48	129.	718.0	3187.3	* 1	1215		148	181.	1958.9	3211.8	* 1	2035		248	177.	1835.9	3209.8
1	0400		49	135.	814.1	3189.8	* 1	1220		149	180.	1957.6	3211.7	* 1	2040		249	177.	1834.7	3209.8
1	0405		50	141.	922.5	3192.4	* 1	1225		150	180.	1956.4	3211.7	* 1	2045		250	177.	1833.5	3209.8
1	0410		51	147.	1044.7	3195.2	* 1	1230		151	180.	1955.2	3211.7	* 1	2050		251	177.	1832.3	3209.8
1	0415		52	153.	1181.8	3198.1	* 1	1235		152	180.	1953.9	3211.7	* 1	2055		252	176.	1831.0	3209.7
1	0420		53	160.	1334.8	3201.2	* 1	1240		153	180.	1952.7	3211.7	* 1	2100		253	176.	1829.8	3209.7
1	0425		54	166.	1505.2	3204.3	* 1	1245		154	180.	1951.4	3211.6	* 1	2105		254	176.	1828.6	3209.7
1	0430		55	172.	1694.0	3207.6	* 1	1250		155	180.	1950.2	3211.6	* 1	2110		255	176.	1827.4	3209.7
1	0435		56	179.	1902.0	3210.9	* 1	1255		156	180.	1948.9	3211.6	* 1	2115		256	176.	1826.2	3209.7
1	0440		57	7680.	2102.6	3213.8	* 1	1300		157	180.	1947.7	3211.6	* 1	2120		257	176.	1825.0	3209.6
1	0445		58	22993.	2240.8	3215.7	* 1	1305		158	180.	1946.5	3211.6	* 1	2125		258	176.	1823.8	3209.6
1	0450		59	31039.	2311.4	3216.7	* 1	1310		159	180.	1945.2	3211.5	* 1	2130		259	176.	1822.5	3209.6
1	0455		60	36298.	2345.0	3217.2	* 1	1315		160	180.	1944.0	3211.5	* 1	2135		260	176.	1821.3	3209.6
1	0500		61	38708.	2356.1	3217.4	* 1	1320		161	180.	1942.7	3211.5	* 1	2140		261	176.	1820.1	3209.6
1	0505		62	38885.	2357.0	3217.4	* 1	1325		162	180.	1941.5	3211.5	* 1	2145		262	176.	1818.9	3209.5
1	0510		63	38120.	2353.4	3217.3	* 1	1330		163	180.	1940.3	3211.5	* 1	2150		263	176.	1817.7	3209.5
1	0515		64	36719.	2346.9	3217.2	* 1	1335		164	180.	1939.0	3211.4	* 1	2155		264	176.	1816.5	3209.5
1	0520		65	34871.	2338.4	3217.1	* 1	1340		165	180.	1937.8	3211.4	* 1	2200		265	176.	1815.3	3209.5
1	0525		66	32926.	2328.0	3217.0	* 1	1345		166	180.	1936.5	3211.4	* 1	2205		266	176.	1814.1	3209.5
1	0530		67	31348.	2314.1	3216.8	* 1	1350		167	180.	1935.3	3211.4	* 1	2210		267	176.	1812.8	3209.4
1	0535		68	29406.	2297.1	3216.5	* 1	1355		168	180.	1934.1	3211.4	* 1	2215		268	176.	1811.6	3209.4
1	0540		69	27372.	2279.2	3216.3	* 1	1400		169	180.	1932.8	3211.3	* 1	2220		269	176.	1810.4	3209.4
1	0545		70	25399.	2261.9	3216.0	* 1	1405		170	180.	1931.6	3211.3	* 1	2225		270	176.	1809.2	3209.4
1	0550		71	23564.	2245.8	3215.8	* 1	1410		171	180.	1930.4	3211.3	* 1	2230		271	176.	1808.0	3209.4
1	0555		72	21893.	2231.2	3215.6	* 1	1415		172	180.	1929.1	3211.3	* 1	2235		272	176.	1806.8	3209.3
1	0600		73	20371.	2217.8	3215.4	* 1	1420		173	180.	1927.9	3211.3	* 1	2240		273	176.	1805.6	3209.3
1	0605		74	18967.	2205.5	3215.3	* 1	1425		174	179.	1926.6	3211.2	* 1	2245		274	176.	1804.4	3209.3
1	0610		75	17647.	2193.9	3215.1	* 1	1430		175	179.	1925.4	3211.2	* 1	2250		275	176.	1803.2	3209.3
1	0615		76	16377.	2182.8	3214.9	* 1	1435		176	179.	1924.2	3211.2	* 1	2255		276	176.	1801.9	3209.3
1	0620		77	15132.	2171.8	3214.8	* 1	1440		177	179.	1922.9	3211.2	* 1	2300		277	175.	1800.7	3209.2
1	0625		78	13900.	2161.0	3214.6	* 1	1445		178	179.	1921.7	3211.2	* 1	2305		278	175.	1799.5	3209.2
1	0630		79	12679.	2150.3	3214.5	* 1	1450		179	179.	1920.5	3211.2	* 1	2310		279	175.	1798.3	3209.2
1	0635		80	11478.	2139.8	3214.3	* 1	1455		180	179.	1919.2	3211.1	* 1	2315		280	175.	1797.1	3209.2
1	0640		81	10311.	2129.5	3214.2	* 1	1500		181	179.	1918.0	3211.1	* 1	2320		281	175.	1795.9	3209.2
1	0645		82	9194.	2119.7	3214.1	* 1	1505		182	179.	1916.8	3211.1	* 1	2325		282	175.	1794.7	3209.2
1	0650		83	8269.	2110.1	3213.9	* 1	1510		183	179.	1915.5	3211.1	* 1	2330		283	175.	1793.5	3209.1
1	0655		84	7482.	2100.1	3213.8	* 1	1515		184	179.	1914.3	3211.1	* 1	2335		284	175.	1792.3	3209.1
1	0700		85	6681.	2089.8	3213.7	* 1	1520		185	179.	1913.1	3211.0	* 1	2340		285	175.	1791.1	3209.1
1	0705		86	5910.	2080.0	3213.5	* 1	1525		186	179.	1911.8	3211.0	* 1	2345		286	175.	1789.9	3209.1
1	0710		87	5193.	2070.9	3213.4	* 1	1530		187	179.	1910.6	3211.0	* 1	2350		287	175.	1788.7	3209.1
1	0715		88	4539.	2062.5	3213.3	* 1	1535		188	179.	1909.4	3211.0	* 1	2355		288	175.	1787.5	3209.0
1	0720		89	3950.	2055.0	3213.2	* 1	1540		189	179.	1908.1	3211.0	* 2	0000		289	175.	1786.3	3209.0
1	0725		90	3424.	2048.3	3213.1	* 1	1545		190	179.	1906.9	3210.9	* 2	0005		290	175.	1785.0	3209.0
1	0730		91	2957.	2042.4	3213.0	* 1	1550		191	179.	1905.7	3210.9	* 2	0010		291	175.	1783.8	3209.0
1	0735		92	2544.	2037.1	3212.9	* 1	1555		192	179.	1904.4	3210.9	* 2	0015		292	175.	1782.6	3209.0
1	0740		93	2180.	2032.5	3212.9	* 1	1600		193	179.	1903.2	3210.9	* 2	0020		293	175.	1781.4	3208.9
1	0745		94	1860.	2028.4	3212.8	* 1	1605		194	179.	1902.0	3210.9	* 2	0025		294	175.	1780.2	3208.9
1	0750		95	1580.	2024.8	3212.7	* 1	1610		195	179.	1900.7	3210.8	* 2	0030		295	175.	1779.0	3208.9
1	0755		96	1335.	2021.7	3212.7	* 1	1615		196	179.	1899.5	3210.8	* 2	0035		296	175.	1777.8	3208.9
1	0800		97	1124.	2019.0	3212.7	* 1	1620		197	179.	1898.3	3210.8	* 2	0040		297	175.	1776.6	3208.9
1	0805		98	941.	2016.7	3212.6	* 1	1625		198	179.	1897.1	3210.8	* 2	0045		298	175.	1775.4	3208.8
1	0810		99	785.	2014.7	3212.6	* 1	1630		199	179.	1895.8	3210.8	* 2	0050		299	175.	1774.2	3208.8
1	0815	100		652.	2013.0	3212.6	* 1	1635		200	178.	1894.6	3210.7	* 2	0055	300		175.	1773.0	3208.8
							*							*						

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
	(CFS)				
+ 38885.	5.08	9594.	2515.	2423.	2423.
	(INCHES)	1.630	1.709	1.709	1.709
	(AC-FT)	4758.	4989.	4989.	4989.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
2357.	5.08	2100.	1700.	1637.	1637.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3217.36	5.08	3213.78	3205.66	3204.02	3204.02

CUMULATIVE AREA = 54.73 SQ MI

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PEAK FLOW AND STAGE (END-OF-PERIOD) SUMMARY FOR MULTIPLE PLAN-RATIO ECONOMIC COMPUTATIONS
FLOWS IN CUBIC FEET PER SECOND, AREA IN SQUARE MILES
TIME TO PEAK IN HOURS

					RATIOS APPLIED TO PRECIPITATION								
OPERATION	STATION	AREA	PLAN		RATIO 1	RATIO 2	RATIO 3	RATIO 4	RATIO 5	RATIO 6	RATIO 7	RATIO 8	RATIO 9
					.99	.98	.95	.93	.92	.91	.90	.89	.88
HYDROGRAPH AT													
+	RR1	4.22	1	FLOW	6540.	6409.	6191.	5972.	5885.	5824.	5780.	5711.	5625.
				TIME	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.92	3.92
HYDROGRAPH AT													
+	RR2	3.55	1	FLOW	5026.	4927.	4762.	4598.	4532.	4486.	4453.	4401.	4335.
				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
ROUTED TO													
+	RRR2	3.55	1	FLOW	5016.	4912.	4754.	4582.	4516.	4473.	4438.	4385.	4319.
				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
2 COMBINED AT													
+	CRR2	7.77	1	FLOW	11429.	11197.	10823.	10440.	10289.	10188.	10107.	9987.	9836.
				TIME	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92

ROUTED TO												
+	RCRR2	7.77	1	FLOW	10638.	10421.	10071.	9714.	9572.	9475.	9402.	9290.	9148.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
HYDROGRAPH AT													
+	RR5	7.13	1	FLOW	9006.	8833.	8545.	8257.	8141.	8061.	8003.	7911.	7796.
				TIME	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08
ROUTED TO													
+	R-RR5	7.13	1	FLOW	8681.	8514.	8234.	7955.	7844.	7766.	7710.	7621.	7509.
				TIME	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25
HYDROGRAPH AT													
+	RR3	14.98	1	FLOW	15676.	15363.	14842.	14321.	14113.	13968.	13864.	13698.	13490.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
3 COMBINED AT													
+	CRR3	29.89	1	FLOW	34922.	34232.	33093.	31947.	31491.	31173.	30944.	30578.	30123.
				TIME	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25
ROUTED TO													
+	RCRR3	29.89	1	FLOW	32818.	32165.	31086.	30002.	29570.	29269.	29052.	28707.	28275.
				TIME	4.67	4.67	4.67	4.67	4.67	4.67	4.67	4.67	4.67
HYDROGRAPH AT													
+	RR10	8.77	1	FLOW	7118.	6969.	6721.	6473.	6374.	6305.	6255.	6176.	6077.
				TIME	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33
2 COMBINED AT													
+	CRR10	38.66	1	FLOW	39001.	38222.	36934.	35641.	35125.	34766.	34507.	34095.	33580.
				TIME	4.67	4.67	4.67	4.67	4.67	4.67	4.67	4.67	4.67
ROUTED TO													
+	RCRR10	38.66	1	FLOW	37322.	36574.	35337.	34095.	33600.	33255.	33007.	32611.	32117.
				TIME	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
HYDROGRAPH AT													
+	RR12A	5.82	1	FLOW	5831.	5715.	5521.	5327.	5250.	5196.	5157.	5095.	5018.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
ROUTED TO													
+	R-RR12A	5.82	1	FLOW	5612.	5500.	5313.	5126.	5051.	4999.	4962.	4902.	4827.
				TIME	4.42	4.42	4.42	4.42	4.42	4.42	4.42	4.42	4.42
HYDROGRAPH AT													
+	104A	3.39	1	FLOW	2390.	2332.	2237.	2143.	2105.	2078.	2060.	2030.	1992.
				TIME	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25
3 COMBINED AT													
+	C104A	47.87	1	FLOW	42397.	41549.	40144.	38735.	38173.	37780.	37499.	37050.	36489.
				TIME	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
HYDROGRAPH AT													
+	RD1	.43	1	FLOW	806.	790.	762.	735.	724.	716.	710.	702.	691.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
ROUTED TO													
+	R-RD1	.43	1	FLOW	794.	782.	754.	727.	717.	705.	701.	700.	682.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT													
+	RD2	.47	1	FLOW	1042.	1023.	992.	961.	948.	939.	933.	923.	911.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT													
+	CRD2	.90	1	FLOW	1786.	1753.	1694.	1636.	1615.	1596.	1584.	1569.	1543.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
ROUTED TO													
+	RCRD2	.90	1	FLOW	1734.	1699.	1649.	1594.	1568.	1555.	1543.	1527.	1506.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT													
+	RD3	.33	1	FLOW	696.	683.	662.	640.	632.	626.	621.	614.	606.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT													
+	CRD3	1.23	1	FLOW	2379.	2340.	2257.	2178.	2152.	2125.	2110.	2091.	2053.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT													
+	RR14A	4.60	1	FLOW	4430.	4340.	4190.	4041.	3982.	3940.	3910.	3862.	3803.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
ROUTED TO													
+	R-RR14A	4.60	1	FLOW	4409.	4319.	4171.	4021.	3960.	3920.	3888.	3842.	3783.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
HYDROGRAPH AT													
+	RD4	.40	1	FLOW	750.	734.	707.	681.	670.	663.	658.	649.	639.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT													
+	CRD4	5.00	1	FLOW	4556.	4463.	4310.	4156.	4093.	4052.	4019.	3972.	3910.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
ROUTED TO													
+	RCRD4	5.00	1	FLOW	4540.	4449.	4295.	4139.	4077.	4037.	4002.	3956.	3895.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
HYDROGRAPH AT													
+	RD5	.37	1	FLOW	717.	702.	678.	653.	644.	637.	632.	624.	614.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT													
+	CRD5	5.37	1	FLOW	4664.	4571.	4413.	4253.	4190.	4148.	4113.	4066.	4003.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
ROUTED TO													
+	RCRD5	5.37	1	FLOW	4645.	4551.	4391.	4235.	4171.	4127.	4093.	4046.	3983.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
HYDROGRAPH AT													
+	RD6	.25	1	FLOW	531.	521.	504.	488.	481.	477.	473.	468.	461.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT													
+	CRD6	5.62	1	FLOW	4731.	4636.	4473.	4314.	4250.	4206.	4170.	4123.	4059.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
3 COMBINED AT													
+	INRR	54.73	1	FLOW	45519.	44615.	43114.	41611.	41012.	40593.	40292.	39813.	39214.
				TIME	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
ROUTED TO													
+	RRDB	54.73	1	FLOW	45307.	44398.	42883.	41339.	40723.	40288.	39979.	39494.	38885.
				TIME	5.00	5.00	5.00	5.00	5.00	5.00	5.08	5.08	5.08

** PEAK STAGES IN FEET **

			1	STAGE	3217.78	3217.72	3217.62	3217.52	3217.48	3217.45	3217.43	3217.40	3217.36
				TIME	5.00	5.00	5.00	5.00	5.00	5.00	5.08	5.08	5.08
DIVERSION TO													
+	*D-RROUT	54.73	1	FLOW	45125.	44216.	42701.	41157.	40541.	40106.	39797.	39312.	38703.
				TIME	5.00	5.00	5.00	5.00	5.00	5.00	5.08	5.08	5.08
HYDROGRAPH AT													
+	*DOUTRR	54.73	1	FLOW	182.	182.	182.	182.	182.	182.	182.	182.	182.
				TIME	5.75	5.67	4.58	5.50	5.58	4.67	4.75	4.67	4.67
ROUTED TO													
+	ROUTRR	54.73	1	FLOW	182.	182.	182.	182.	182.	182.	182.	182.	182.
				TIME	4.67	4.67	4.75	4.75	4.75	4.75	4.75	4.75	4.75
HYDROGRAPH AT													
+	R3A	.19	1	FLOW	337.	330.	318.	306.	301.	298.	296.	292.	287.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT													
+	CR3A	54.92	1	FLOW	448.	439.	424.	409.	403.	399.	396.	391.	385.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
ROUTED TO													
+	RCR3A	54.92	1	FLOW	442.	434.	419.	405.	399.	395.	392.	388.	382.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67

1

*** NORMAL END OF HEC-1 ***

B.3.17 200-year_FLAM4A

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1****************************************
 *                                      *
 *   FLOOD HYDROGRAPH PACKAGE  (HEC-1)  *
 *              JUN   1998              *
 *           VERSION 4.1                *
 *                                      *
 *  RUN DATE   20MAY20  TIME  10:07:55  *
 *                                      *
 ****************************************
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****************************************
*                                      *
*    U.S. ARMY CORPS OF ENGINEERS      *
*    HYDROLOGIC ENGINEERING CENTER     *
*         609 SECOND STREET            *
*       DAVIS, CALIFORNIA 95616        *
*            (916) 756-1104            *
*                                      *
****************************************
```

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X     X  XXXXXXX   XXXXX          X
X     X  X        X     X        XX
X     X  X        X              X
XXXXXXX  XXXX     X        XXXXX  X
X     X  X        X              X
X     X  X        X     X        X
X     X  XXXXXXX   XXXXX         XXX
```

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL   LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM


```
          LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
                    *DIAGRAM
 *** FREE ***
               1    ID   RED ROCK TRAIL TO FY19-87
               2    ID   US FEDERAL HIGHWAY ADMINISTRATION
               3    ID   PN WXXY4000
               4    ID
               5    ID   HEC-1 MODEL TAKEN FROM CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT (CCRFCD)
               6    ID   2018 MASTER PLAN UPDATE
               7    ID   FLAMINGO / TROPICANA WASHES WATERSHED
               8    ID   RECOMMENDED DRAINAGE SYSTEM WITH ULTIMATE DEVELOPMENT
               9    ID   INPUT FILE = FLAM3A.DAT
              10    ID   INPUT FILE DATE = MAY 2020
              11    ID
              12    ID   PRECIPITATION VALUES CREATED FROM LOGRITHMIC TRENDLINE FOR 2-YEAR THROUGH
              13    ID   100-YEAR ISOPLUVIALS MAPS FROM NOAA ATLAS 2 THAT HAVE BEEN ADJUSTED PER
              14    ID   CCRFCD HYDRAULIC CRITERIA & DRAINAGE DESIGN MANUAL TABLE 501
              15    ID
              16    ID   DESIGN STORM = 200-YEAR, 6-HOUR STORM
              17    ID   STORM DISTRIBUTION = SDN4
              18    ID   STORM CENTERING = SERIES A: REGIONAL DETENTION BASIN FLOWS NOT DIVERTED OUT
              19    ID   MODELED BY JACOBS (DAVE BERGH, PE)
              20    ID
              21    ID   JR CARDS CONTAIN DARFS BASED ON THE FOLLOWING VALUES:
              22    ID
              23    ID         AREA    DARF
              24    ID         SQ.MI.
              25    ID                 SDN 3   SDN 4   SDN 5
              26    ID         0 - 0.5 0.990
              27    ID         0.5 - 1 0.975
              28    ID         1 - 2   0.950
              29    ID         2 - 3   0.925
              30    ID         3 - 4   0.915
              31    ID         4 - 5   0.908
              32    ID         5 - 6   0.903
              33    ID         6 - 7   0.895
              34    ID         7 - 8   0.885
              35    ID         8 - 9           0.875
              36    ID         9 - 10          0.865
              37    ID         10 - 11         0.857
              38    ID         11 - 12         0.850
              39    ID         12 - 16                 0.832
              40    ID         16 - 20                 0.804
              41    ID         20 - 30                 0.765
              42    ID         30 - 40                 0.725
              43    ID         40 - 50                 0.695
              44    ID         50 - 100                0.640
              45    ID         100 - 150               0.580
              46    ID         150 - 200               0.530
              47    ID
              48    IT      5       0       0     300
              49    IO      5       0       0
              50    IN      5       0       0
              51    JR    PREC   0.875   0.865   0.857    0.85
                    *
```



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          LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
              52    KK     RR1
              53    BA   4.225
              54    PB    4.60
              55    PC       0    0.02   0.058   0.075   0.099   0.126   0.137   0.145   0.149   0.151
              56    PC   0.155   0.156   0.159   0.162   0.169   0.172   0.179   0.189   0.201   0.211
              57    PC    0.22   0.228   0.232    0.24   0.246   0.252    0.26   0.269   0.276   0.283
              58    PC   0.286   0.292   0.302   0.312   0.321   0.332   0.352   0.376   0.415   0.462
              59    PC    0.53    0.61    0.71   0.732   0.756   0.782   0.799   0.813   0.823    0.83
              60    PC   0.835   0.844   0.851   0.864   0.885   0.908   0.924   0.944   0.968   0.973
              61    PC   0.978   0.982   0.984   0.986   0.988   0.991   0.992   0.993   0.994   0.997
              62    PC   0.998   0.999       1
              63    LS       0    85.8
              64    UD   0.443
                    *
              65    KK     RR2
              66    BA   3.547
              67    PB    4.65
              68    LS       0    86.2
              69    UD   0.545
                    *
              70    KK    RRR2
              71    KM   MUSKINGUM ROUTING UNSTABLE - USED MUSKINGUM-CUNGE
              72    KM   NATURAL WASH
              73    RD    1700   0.076    0.04       0    TRAP     100       2
                    *
              74    KK    CRR2
              75    KM   COMBINE RR1 AND RRR2
              76    HC       2
                    *
              77    KK   RCRR2
              78    KM   ROUTE CRR2 TO CRR3
              79    KM   NATURAL WASH
              80    KM   TRAVEL LENGTH = 15850
              81    KM   SLOPE = 0.043
              82    KM   N = 0.04
              83    KM   HYDRAULIC RADIUS = 1.5
              84    KM   VELOCITY = 16.2
              85    RM       3   0.272    0.15
                    *
              86    KK     RR5
              87    BA   7.132
              88    PB    4.36
              89    LS       0    87.9
              90    UD   0.615
                    *
```



```
          LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
              91    KK   R-RR5
              92    KM   ROUTE RR5 THROUGH RR3 TO CRR3
              93    KM   NATURAL WASH
              94    KM   TRAVEL LENGTH = 10700
              95    KM   SLOPE = 0.037
              96    KM   N = 0.04
              97    KM   HYDRAULIC RADIUS = 1.5
              98    KM   VELOCITY = 15
              99    RM       2   0.198    0.15
                    *
             100    KK     RR3
             101    BA  14.983
             102    PB    4.27
             103    LS       0      87
             104    UD   0.761
                    *
             105    KK    CRR3
             106    KM   COMBINE RCRR2, R-RR5, AND RR3
             107    HC       3
                    *
             108    KK   RCRR3
             109    KM   ROUTE CRR3 THROUGH RR10 TO CRR10
             110    KM   NATURAL WASH
             111    KM   TRAVEL LENGTH = 20700
             112    KM   SLOPE = 0.025
             113    KM   N = 0.04
             114    KM   HYDRAULIC RADIUS = 1.5
             115    KM   VELOCITY = 12.3
             116    RM       6   0.466    0.15
                    *
             117    KK    RR10
             118    BA   8.775
```

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 119          PB    3.88
 120          LS       0    86.1
 121          UD   0.882
              *

 122          KK   CRR10
 123          KM   COMBINE RCRR3 AND RR10
 124          HC       2
              *

 125          KK  RCRR10
 126          KM   ROUTE CRR10 THROUGH 104A TO C104A (RED ROCK DETENTION BASIN)
 127          KM   NATURAL WASH
 128          KM   TRAVEL LENGTH = 14500
 129          KM   SLOPE = 0.021
 130          KM   N = 0.04
 131          KM   HYDRAULIC RADIUS = 1.5
 132          KM   VELOCITY = 11.3
1                                   HEC-1 INPUT                                    PAGE  4

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 133          RM       4   0.356    0.15
              *

 134          KK   RR12A
 135          BA   5.821
 136          PB    3.98
 137          LS       0    87.6
 138          UD   0.728
              *

 139          KK R-RR12A
 140          KM   ROUTE RR12A THROUGH 104A TO C104A (RED ROCK DETENTION BASIN)
 141          KM   NATURAL WASH
 142          KM   TRAVEL LENGTH = 12000
 143          KM   SLOPE = 0.026
 144          KM   N = 0.04
 145          KM   HYDRAULIC RADIUS = 1.5
 146          KM   VELOCITY = 12.6
 147          RM       3   0.265    0.15
              *

 148          KK    104A
 149          BA   3.391
 150          PB    3.78
 151          LS       0    81.3
 152          UD   0.801
              *

 153          KK   C104A
 154          KM   COMBINE RCRR10, R-RR12A, AND 104A
 155          HC       3
              *

 156          KK     RD1
 157          BA   0.431
 158          PB    3.94
 159          LS       0    86.6
 160          UD   0.195
              *

 161          KK   R-RD1
 162          KM   ROUTE RD1 THROUGH RD2 TO CRD2
 163          KM   FUTURE CONCRETE CHANNEL
 164          RD    5100   0.061   0.015       0    TRAP      12       2
              *

 165          KK     RD2
 166          BA   0.473
 167          PB    3.85
 168          LS       0    91.2
 169          UD   0.167
              *
1                                   HEC-1 INPUT                                    PAGE  5

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 170          KK    CRD2
 171          KM   COMBINE R-RD1 AND RD2
 172          HC       2
              *

 173          KK   RCRD2
 174          KM   ROUTE CRD2 TO CRD3 (RED ROCK DETENTION BASIN)
 175          KM   FUTURE CONCRETE CHANNEL
 176          RD    4600    0.05   0.015       0    TRAP      12       2
              *

 177          KK     RD3
 178          BA    0.33
 179          PB    3.79
 180          LS       0    90.3
 181          UD   0.168
              *

 182          KK    CRD3
 183          KM   COMBINE RCRD2 AND RD3
 184          HC       2
              *

 185          KK   RR14A
 186          BA   4.602
 187          PB    3.88
 188          LS       0    87.3
 189          UD   0.725
              *

 190          KK R-RR14A
 191          KM   ROUTE RR14A THROUGH RD4 TO CRD4
 192          KM   FUTURE CONCRETE CHANNEL
 193          RD    5500   0.071   0.015       0    TRAP      12       2
              *

 194          KK     RD4
 195          BA   0.402
 196          PB    3.93
 197          LS       0    85.1
 198          UD   0.177
              *

 199          KK    CRD4
 200          KM   COMBINE R-RR14A AND RD4
 201          HC       2
              *

 202          KK   RCRD4
 203          KM   ROUTE CRD4 THROUGH RD5 TO CRD5
 204          KM   FUTURE CONCRETE CHANNEL
 205          RD    4550   0.067   0.015       0    TRAP      20       2
              *
1                                   HEC-1 INPUT                                    PAGE  6

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 206          KK     RD5
 207          BA    0.37
 208          PB    3.85
 209          LS       0    86.2
 210          UD   0.163
              *

 211          KK    CRD5
 212          KM   COMBINE RCRD4 AND RD5
 213          HC       2
              *

 214          KK   RCRD5
 215          KM   ROUTE CRD5 THROUGH RD6 TO CRD6 (RED ROCK DETENTION BASIN)
 216          KM   FUTURE CONCRETE CHANNEL
 217          RD    5600   0.047   0.015       0    TRAP      20       2
              *

 218          KK     RD6
 219          BA    0.25
 220          PB    3.79
 221          LS       0      90
 222          UD    0.16
              *

 223          KK    CRD6
 224          KM   COMBINE RCRD5 AND RD6
 225          HC       2
              *

 226          KK    INRR
 227          KM   COMBINE C104A, CRD3, AND CRD6 - TOTAL INFLOW TO RED ROCK DETENTION BASIN
 228          KO       1
 229          HC       3
              * ============================================================

 230          KK    RRDB
 231          KM   RED ROCK DETENTION BASIN
 232          KM   TAKEN FROM THE CORP MODELS FOR RED ROCK DETENTION BASIN
 233          KM   100YR COMPUTED PROBABILITY DETENTION DESIGN
 234          KM   FACILITY ID-MILE = RRWA 0716
 235          KM   STORAGE VOLUME = 2007 ACRE-FEET
 236          KM   OUTLET = 27"H x 27"W RCB ORIFICE
 237          KM   100-YR DISCHARGE = 182 CFS
 238          KM   SPILLWAY LENGTH = 600 FT
 239          KM   AUXILLARY OGEE SPILLWAY LENGTH = 323 FT
 240          KM   SPILLWAY CREST ELEVATION = 3212.5 FT NGVD
 241          KM   PMF DISCHARGE = 110000 CFS
 242          KM   TOP OF DAM ELEVATION = 3225 FT NGVD
 243          KO       1
 244          RS       1    STOR      -1
```

```
 245          SV       0       9     107     231     372     529     705     903    1125    1376
 246          SV    1659    1974    2007    2115    2331    2690    2933
 247          SQ       0      10      57      80      99     114     128     140     151     162
1                                          HEC-1 INPUT                                                  PAGE  7

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 248          SQ     171     181     182    8654   33270  110918  163477
 249          SE    3161    3162    3167    3172    3177    3182    3187    3192    3197    3202
 250          SE    3207    3212  3212.5    3214    3217    3222    3225
              * ============================================================

 251          KK *DOUTRR
 252          KM   DIVERT SPILLWAY OVERFLOW IN EXCESS OF CORPS DESIGN OUTFLOW
 253          DT*D-RROUT
 254          DI       0     182    3000    5000   10000
 255          DQ       0       0    2818    4818    9818
              *

 256          KK  ROUTRR
 257          KM   ROUTE OUTFLOW FROM RED ROCK DETENTION BASIN THROUGH R3A TO CR3A
 258          KM   FACILITY = RED ROCK CHANNEL
 259          KM   FACILITY # = RRWA 0714, 0709, 0701
 260          KM   LINING = RCP
 261          KM   LINING = RIPRAP CHNL 10'W X 6'D; 2:1SS
 262          RD    1500   0.008    0.04       0    TRAP      10       2
              *

 263          KK     R3A
 264          BA   0.186
 265          PB    3.68
 266          LS       0    84.3
 267          UD    0.11
              *

 268          KK    CR3A
 269          KM   COMBINE OUTFLOW FROM RED ROCK DETENTION BASIN WITH R3A
 270          HC       2
              *

 271          KK   RCR3A
 272          KM   ROUTE CR3A THROUGH UFR1 TO CUFR1
 273          KM   FACILITY = RED ROCK CHANNEL
 274          KM   FACILITY # = RRWA 0695, 0692, 0608, 0607
 275          KM   LINING = RCP
 276          RD    5045  0.0055   0.013       0    CIRC       8       0
              *

 277          ZZ
1
             SCHEMATIC DIAGRAM OF STREAM NETWORK
 INPUT
  LINE      (V) ROUTING          (--->) DIVERSION OR PUMP FLOW

   NO.      (.) CONNECTOR        (<---) RETURN OF DIVERTED OR PUMPED FLOW

    52        RR1
                .
                .
    65          .        RR2
                .          V
                .          V
    70          .       RRR2
                .          .
                .          .
    74       CRR2............
                V
                V
    77      RCRR2
                .
                .
    86          .        RR5
                .          V
                .          V
    91          .      R-RR5
                .          .
                .          .
   100          .          .        RR3
                .          .          .
                .          .          .
   105       CRR3........................
                V
                V
   108      RCRR3
                .
                .
   117          .       RR10
                .          .
                .          .
   122      CRR10............
                V
                V
   125     RCRR10
                .
                .
   134          .      RR12A
                .          V
                .          V
   139          .    R-RR12A
                .          .
                .          .
   148          .          .       104A
                .          .          .
                .          .          .
   153      C104A........................
                .
                .
   156          .        RD1
                .          V
                .          V
   161          .      R-RD1
                .          .
                .          .
   165          .          .        RD2
                .          .          .
                .          .          .
   170          .       CRD2............
                .          V
                .          V
   173          .      RCRD2
                .          .
                .          .
   177          .          .        RD3
                .          .          .
                .          .          .
   182          .       CRD3............
                .          .
                .          .
   185          .          .      RR14A
                .          .          V
                .          .          V
   190          .          .    R-RR14A
                .          .          .
                .          .          .
   194          .          .          .        RD4
                .          .          .          .
                .          .          .          .
   199          .          .       CRD4............
                .          .          V
                .          .          V
   202          .          .      RCRD4
                .          .          .
                .          .          .
   206          .          .          .        RD5
                .          .          .          .
                .          .          .          .
   211          .          .       CRD5............
                .          .          V
                .          .          V
   214          .          .      RCRD5
                .          .          .
                .          .          .
   218          .          .          .        RD6
                .          .          .          .
                .          .          .          .
   223          .          .       CRD6............
                .          .          .
                .          .          .
   226       INRR........................
                V
                V
   230       RRDB
                .
                .
   253          .------->*D-RROUT
   251     *DOUTRR
                V
                V
   256      ROUTRR
                .
                .
   263          .        R3A
                .          .
                .          .
   268       CR3A............
                V
                V
   271      RCR3A

 (***) RUNOFF ALSO COMPUTED AT THIS LOCATION
1*****************************************
 *                                       *
 *   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
 *              JUN   1998               *
 *            VERSION 4.1                *
 *                                       *
 *  RUN DATE   20MAY20  TIME  10:07:55   *
 *                                       *
 *****************************************
```

```
*************************************
*                                   *
*   U.S. ARMY CORPS OF ENGINEERS    *
*   HYDROLOGIC ENGINEERING CENTER   *
*         609 SECOND STREET         *
*      DAVIS, CALIFORNIA 95616      *
*          (916) 756-1104           *
*                                   *
*************************************
```

RED ROCK TRAIL TO FY19-87
US FEDERAL HIGHWAY ADMINISTRATION
PN WXXY4000

HEC-1 MODEL TAKEN FROM CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT (CCRFCD)
2018 MASTER PLAN UPDATE
FLAMINGO / TROPICANA WASHES WATERSHED
RECOMMENDED DRAINAGE SYSTEM WITH ULTIMATE DEVELOPMENT
INPUT FILE = FLAM3A.DAT
INPUT FILE DATE = MAY 2020

PRECIPITATION VALUES CREATED FROM LOGRITHMIC TRENDLINE FOR 2-YEAR THROUGH
100-YEAR ISOPLUVIALS MAPS FROM NOAA ATLAS 2 THAT HAVE BEEN ADJUSTED PER
CCRFCD HYDRAULIC CRITERIA & DRAINAGE DESIGN MANUAL TABLE 501

DESIGN STORM = 200-YEAR, 6-HOUR STORM
STORM DISTRIBUTION = SDN4
STORM CENTERING = SERIES A: REGIONAL DETENTION BASIN FLOWS NOT DIVERTED OUT
MODELED BY JACOBS (DAVE BERGH, PE)

JR CARDS CONTAIN DARFS BASED ON THE FOLLOWING VALUES:

AREA SQ.MI.	DARF SDN 3	SDN 4	SDN 5
0 - 0.5	0.990		
0.5 - 1	0.975		
1 - 2	0.950		
2 - 3	0.925		
3 - 4	0.915		
4 - 5	0.908		
5 - 6	0.903		
6 - 7	0.895		
7 - 8	0.885		
8 - 9		0.875	
9 - 10		0.865	
10 - 11		0.857	
11 - 12		0.850	
12 - 16			0.832
16 - 20			0.804
20 - 30			0.765
30 - 40			0.725
40 - 50			0.695
50 - 100			0.640
100 - 150			0.580
150 - 200			0.530

```
 49 IO          OUTPUT CONTROL VARIABLES
                     IPRNT          5  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL          0.  HYDROGRAPH PLOT SCALE

    IT          HYDROGRAPH TIME DATA
                      NMIN          5  MINUTES IN COMPUTATION INTERVAL
                     IDATE      1    0  STARTING DATE
                     ITIME         0000  STARTING TIME
                        NQ          300  NUMBER OF HYDROGRAPH ORDINATES
                    NDDATE      2    0  ENDING DATE
                    NDTIME         0055  ENDING TIME
                     ICENT           19  CENTURY MARK

                  COMPUTATION INTERVAL     .08 HOURS
                      TOTAL TIME BASE   24.92 HOURS

        ENGLISH UNITS
             DRAINAGE AREA         SQUARE MILES
             PRECIPITATION DEPTH   INCHES
             LENGTH, ELEVATION     FEET
             FLOW                  CUBIC FEET PER SECOND
             STORAGE VOLUME        ACRE-FEET
             SURFACE AREA          ACRES
             TEMPERATURE           DEGREES FAHRENHEIT

    JP          MULTI-PLAN OPTION
                     NPLAN          1  NUMBER OF PLANS

    JR          MULTI-RATIO OPTION
                    RATIOS OF PRECIPITATION
                    .88      .87      .86      .85


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

          **************
          *            *
 226 KK   *      INRR  *
          *            *
          **************

 228 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          1  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL          0.  HYDROGRAPH PLOT SCALE

 229 HC          HYDROGRAPH COMBINATION
                      ICOMP          3  NUMBER OF HYDROGRAPHS TO COMBINE

                                                
```

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0555	72	19848.	1		1210	147	0.	1		1825	222	0.	2		0040	297	0.
1		0600	73	18845.	1		1215	148	0.	1		1830	223	0.	2		0045	298	0.
1		0605	74	17847.	1		1220	149	0.	1		1835	224	0.	2		0050	299	0.
1		0610	75	16815.	1		1225	150	0.	1		1840	225	0.	2		0055	300	0.

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 34828.	4.92	13225.	3354.	3231.	3231.
		(INCHES) 2.247	2.279	2.279	2.279
		(AC-FT) 6558.	6653.	6653.	6653.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .87

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	15507.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	14372.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	13188.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	11978.	1		1245	154	0.	1		1900	229	0.
1		0020	5	6.	1		0635	80	10774.	1		1250	155	0.	1		1905	230	0.
1		0025	6	31.	1		0640	81	9605.	1		1255	156	0.	1		1910	231	0.
1		0030	7	73.	1		0645	82	8501.	1		1300	157	0.	1		1915	232	0.
1		0035	8	109.	1		0650	83	7481.	1		1305	158	0.	1		1920	233	0.
1		0040	9	127.	1		0655	84	6554.	1		1310	159	0.	1		1925	234	0.
1		0045	10	131.	1		0700	85	5723.	1		1315	160	0.	1		1930	235	0.
1		0050	11	133.	1		0705	86	4983.	1		1320	161	0.	1		1935	236	0.
1		0055	12	145.	1		0710	87	4329.	1		1325	162	0.	1		1940	237	0.
1		0100	13	169.	1		0715	88	3751.	1		1330	163	0.	1		1945	238	0.
1		0105	14	208.	1		0720	89	3240.	1		1335	164	0.	1		1950	239	0.
1		0110	15	263.	1		0725	90	2789.	1		1340	165	0.	1		1955	240	0.
1		0115	16	335.	1		0730	91	2390.	1		1345	166	0.	1		2000	241	0.
1		0120	17	421.	1		0735	92	2039.	1		1350	167	0.	1		2005	242	0.
1		0125	18	523.	1		0740	93	1730.	1		1355	168	0.	1		2010	243	0.
1		0130	19	653.	1		0745	94	1460.	1		1400	169	0.	1		2015	244	0.
1		0135	20	810.	1		0750	95	1226.	1		1405	170	0.	1		2020	245	0.
1		0140	21	978.	1		0755	96	1025.	1		1410	171	0.	1		2025	246	0.
1		0145	22	1141.	1		0800	97	854.	1		1415	172	0.	1		2030	247	0.
1		0150	23	1294.	1		0805	98	708.	1		1420	173	0.	1		2035	248	0.
1		0155	24	1437.	1		0810	99	586.	1		1425	174	0.	1		2040	249	0.
1		0200	25	1580.	1		0815	100	484.	1		1430	175	0.	1		2045	250	0.
1		0205	26	1730.	1		0820	101	399.	1		1435	176	0.	1		2050	251	0.
1		0210	27	1883.	1		0825	102	329.	1		1440	177	0.	1		2055	252	0.
1		0215	28	2046.	1		0830	103	271.	1		1445	178	0.	1		2100	253	0.
1		0220	29	2221.	1		0835	104	223.	1		1450	179	0.	1		2105	254	0.
1		0225	30	2403.	1		0840	105	183.	1		1455	180	0.	1		2110	255	0.
1		0230	31	2585.	1		0845	106	150.	1		1500	181	0.	1		2115	256	0.
1		0235	32	2769.	1		0850	107	123.	1		1505	182	0.	1		2120	257	0.
1		0240	33	2973.	1		0855	108	101.	1		1510	183	0.	1		2125	258	0.
1		0245	34	3215.	1		0900	109	83.	1		1515	184	0.	1		2130	259	0.
1		0250	35	3479.	1		0905	110	67.	1		1520	185	0.	1		2135	260	0.
1		0255	36	3741.	1		0910	111	54.	1		1525	186	0.	1		2140	261	0.
1		0300	37	4007.	1		0915	112	43.	1		1530	187	0.	1		2145	262	0.
1		0305	38	4315.	1		0920	113	34.	1		1535	188	0.	1		2150	263	0.
1		0310	39	4705.	1		0925	114	27.	1		1540	189	0.	1		2155	264	0.
1		0315	40	5219.	1		0930	115	21.	1		1545	190	0.	1		2200	265	0.
1		0320	41	5905.	1		0935	116	16.	1		1550	191	0.	1		2205	266	0.
1		0325	42	6841.	1		0940	117	12.	1		1555	192	0.	1		2210	267	0.
1		0330	43	8057.	1		0945	118	9.	1		1600	193	0.	1		2215	268	0.
1		0335	44	9324.	1		0950	119	7.	1		1605	194	0.	1		2220	269	0.
1		0340	45	10177.	1		0955	120	5.	1		1610	195	0.	1		2225	270	0.
1		0345	46	10860.	1		1000	121	4.	1		1615	196	0.	1		2230	271	0.
1		0350	47	11805.	1		1005	122	3.	1		1620	197	0.	1		2235	272	0.
1		0355	48	13076.	1		1010	123	2.	1		1625	198	0.	1		2240	273	0.
1		0400	49	14573.	1		1015	124	2.	1		1630	199	0.	1		2245	274	0.
1		0405	50	16230.	1		1020	125	1.	1		1635	200	0.	1		2250	275	0.
1		0410	51	18018.	1		1025	126	1.	1		1640	201	0.	1		2255	276	0.
1		0415	52	19951.	1		1030	127	1.	1		1645	202	0.	1		2300	277	0.
1		0420	53	22025.	1		1035	128	0.	1		1650	203	0.	1		2305	278	0.
1		0425	54	24205.	1		1040	129	0.	1		1655	204	0.	1		2310	279	0.
1		0430	55	26460.	1		1045	130	0.	1		1700	205	0.	1		2315	280	0.
1		0435	56	28711.	1		1050	131	0.	1		1705	206	0.	1		2320	281	0.
1		0440	57	30769.	1		1055	132	0.	1		1710	207	0.	1		2325	282	0.
1		0445	58	32431.	1		1100	133	0.	1		1715	208	0.	1		2330	283	0.
1		0450	59	33630.	1		1105	134	0.	1		1720	209	0.	1		2335	284	0.
1		0455	60	34290.	1		1110	135	0.	1		1725	210	0.	1		2340	285	0.
1		0500	61	34280.	1		1115	136	0.	1		1730	211	0.	1		2345	286	0.
1		0505	62	33657.	1		1120	137	0.	1		1735	212	0.	1		2350	287	0.
1		0510	63	32575.	1		1125	138	0.	1		1740	213	0.	1		2355	288	0.
1		0515	64	31166.	1		1130	139	0.	1		1745	214	0.	2		0000	289	0.
1		0520	65	29548.	1		1135	140	0.	1		1750	215	0.	2		0005	290	0.
1		0525	66	27841.	1		1140	141	0.	1		1755	216	0.	2		0010	291	0.

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0530	67	26150.	1		1145	142	0.	1		1800	217	0.	2		0015	292	0.
1		0535	68	24543.	1		1150	143	0.	1		1805	218	0.	2		0020	293	0.
1		0540	69	23071.	1		1155	144	0.	1		1810	219	0.	2		0025	294	0.
1		0545	70	21760.	1		1200	145	0.	1		1815	220	0.	2		0030	295	0.
1		0550	71	20607.	1		1205	146	0.	1		1820	221	0.	2		0035	296	0.
1		0555	72	19567.	1		1210	147	0.	1		1825	222	0.	2		0040	297	0.
1		0600	73	18580.	1		1215	148	0.	1		1830	223	0.	2		0045	298	0.
1		0605	74	17597.	1		1220	149	0.	1		1835	224	0.	2		0050	299	0.
1		0610	75	16581.	1		1225	150	0.	1		1840	225	0.	2		0055	300	0.

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 34290.	4.92	13011.	3299.	3178.	3178.
		(INCHES) 2.210	2.242	2.242	2.242
		(AC-FT) 6452.	6544.	6544.	6544.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .86

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	15333.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	14211.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	13041.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	11845.	1		1245	154	0.	1		1900	229	0.
1		0020	5	6.	1		0635	80	10654.	1		1250	155	0.	1		1905	230	0.
1		0025	6	29.	1		0640	81	9499.	1		1255	156	0.	1		1910	231	0.
1		0030	7	70.	1		0645	82	8407.	1		1300	157	0.	1		1915	232	0.
1		0035	8	106.	1		0650	83	7398.	1		1305	158	0.	1		1920	233	0.
1		0040	9	122.	1		0655	84	6482.	1		1310	159	0.	1		1925	234	0.
1		0045	10	126.	1		0700	85	5660.	1		1315	160	0.	1		1930	235	0.
1		0050	11	128.	1		0705	86	4929.	1		1320	161	0.	1		1935	236	0.
1		0055	12	139.	1		0710	87	4282.	1		1325	162	0.	1		1940	237	0.
1		0100	13	163.	1		0715	88	3710.	1		1330	163	0.	1		1945	238	0.
1		0105	14	199.	1		0720	89	3205.	1		1335	164	0.	1		1950	239	0.
1		0110	15	252.	1		0725	90	2759.	1		1340	165	0.	1		1955	240	0.
1		0115	16	322.	1		0730	91	2364.	1		1345	166	0.	1		2000	241	0.
1		0120	17	404.	1		0735	92	2016.	1		1350	167	0.	1		2005	242	0.
1		0125	18	503.	1		0740	93	1711.	1		1355	168	0.	1		2010	243	0.
1		0130	19	629.	1		0745	94	1444.	1		1400	169	0.	1		2015	244	0.
1		0135	20	781.	1		0750	95	1213.	1		1405	170	0.	1		2020	245	0.
1		0140	21	944.	1		0755	96	1014.	1		1410	171	0.	1		2025	246	0.
1		0145	22	1103.	1		0800	97	844.	1		1415	172	0.	1		2030	247	0.
1		0150	23	1252.	1		0805	98	701.	1		1420	173	0.	1		2035	248	0.
1		0155	24	1391.	1		0810	99	580.	1		1425	174	0.	1		2040	249	0.
1		0200	25	1532.	1		0815	100	479.	1		1430	175	0.	1		2045	250	0.
1		0205	26	1679.	1		0820	101	395.	1		1435	176	0.	1		2050	251	0.
1		0210	27	1830.	1		0825	102	325.	1		1440	177	0.	1		2055	252	0.
1		0215	28	1990.	1		0830	103	268.	1		1445	178	0.	1		2100	253	0.
1		0220	29	2163.	1		0835	104	220.	1		1450	179	0.	1		2105	254	0.
1		0225	30	2343.	1		0840	105	181.	1		1455	180	0.	1		2110	255	0.
1		0230	31	2523.	1		0845	106	149.	1		1500	181	0.	1		2115	256	0.
1		0235	32	2705.	1		0850	107	122.	1		1505	182	0.	1		2120	257	0.
1		0240	33	2906.	1		0855	108	100.	1		1510	183	0.	1		2125	258	0.
1		0245	34	3145.	1		0900	109	82.	1		1515	184	0.	1		2130	259	0.
1		0250	35	3405.	1		0905	110	66.	1		1520	185	0.	1		2135	260	0.
1		0255	36	3663.	1		0910	111	54.	1		1525	186	0.	1		2140	261	0.
1		0300	37	3926.	1		0915	112	43.	1		1530	187	0.	1		2145	262	0.
1		0305	38	4230.	1		0920	113	34.	1		1535	188	0.	1		2150	263	0.
1		0310	39	4614.	1		0925	114	26.	1		1540	189	0.	1		2155	264	0.
1		0315	40	5122.	1		0930	115	20.	1		1545	190	0.	1		2200	265	0.
1		0320	41	5801.	1		0935	116	16.	1		1550	191	0.	1		2205	266	0.
1		0325	42	6718.	1		0940	117	12.	1		1555	192	0.	1		2210	267	0.
1		0330	43	7928.	1		0945	118	9.	1		1600	193	0.	1		2215	268	0.
1		0335	44	9182.	1		0950	119	7.	1		1605	194	0.	1		2220	269	0.
1		0340	45	10015.	1		0955	120	5.	1		1610	195	0.	1		2225	270	0.
1		0345	46	10684.	1		1000	121	4.	1		1615	196	0.	1		2230	271	0.
1		0350	47	11622.	1		1005	122	3.	1		1620	197	0.	1		2235	272	0.
1		0355	48	12883.	1		1010	123	2.	1		1625	198	0.	1		2240	273	0.
1		0400	49	14362.	1		1015	124	2.	1		1630	199	0.	1		2245	274	0.
1		0405	50	15998.	1		1020	125	1.	1		1635	200	0.	1		2250	275	0.
1		0410	51	17769.	1		1025	126	1.	1		1640	201	0.	1		2255	276	0.
1		0415	52	19673.	1		1030	127	1.	1		1645	202	0.	1		2300	277	0.
1		0420	53	21725.	1		1035	128	0.	1		1650	203	0.	1		2305	278	0.
1		0425	54	23880.	1		1040	129	0.	1		1655	204	0.	1		2310	279	0.
1		0430	55	26108.	1		1045	130	0.	1		1700	205	0.	1		2315	280	0.
1		0435	56	28333.	1		1050	131	0.	1		1705	206	0.	1		2320	281	0.
1		0440	57	30369.	1		1055	132	0.	1		1710	207	0.	1		2325	282	0.
1		0445	58	32015.	1		1100	133	0.	1		1715	208	0.	1		2330	283	0.
1		0450	59	33203.	1		1105	134	0.	1		1720	209	0.	1		2335	284	0.
1		0455	60	33857.	1		1110	135	0.	1		1725	210	0.	1		2340	285	0.
1		0500	61	33856.	1		1115	136	0.	1		1730	211	0.	1		2345	286	0.

DA MON	HRMN	ORD	FLOW	DA MON	HRMN	ORD	FLOW	DA MON	HRMN	ORD	FLOW	DA MON	HRMN	ORD	FLOW
1	0505	62	33243.	1	1120	137	0.	1	1735	212	0.	1	2350	287	0.
1	0510	63	32176.	1	1125	138	0.	1	1740	213	0.	1	2355	288	0.
1	0515	64	30786.	1	1130	139	0.	1	1745	214	0.	2	0000	289	0.
1	0520	65	29190.	1	1135	140	0.	1	1750	215	0.	2	0005	290	0.
1	0525	66	27507.	1	1140	141	0.	1	1755	216	0.	2	0010	291	0.
1	0530	67	25838.	1	1145	142	0.	1	1800	217	0.	2	0015	292	0.
1	0535	68	24253.	1	1150	143	0.	1	1805	218	0.	2	0020	293	0.
1	0540	69	22801.	1	1155	144	0.	1	1810	219	0.	2	0025	294	0.
1	0545	70	21506.	1	1200	145	0.	1	1815	220	0.	2	0030	295	0.
1	0550	71	20369.	1	1205	146	0.	1	1820	221	0.	2	0035	296	0.
1	0555	72	19342.	1	1210	147	0.	1	1825	222	0.	2	0040	297	0.
1	0600	73	18368.	1	1215	148	0.	1	1830	223	0.	2	0045	298	0.
1	0605	74	17398.	1	1220	149	0.	1	1835	224	0.	2	0050	299	0.
1	0610	75	16394.	1	1225	150	0.	1	1840	225	0.	2	0055	300	0.

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	PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
				6-HR	24-HR	72-HR	24.92-HR
+	(CFS)	(HR)					
			(CFS)				
+	33857.	4.92		12840.	3255.	3136.	3136.
			(INCHES)	2.181	2.212	2.212	2.212
			(AC-FT)	6367.	6457.	6457.	6457.

CUMULATIVE AREA = 54.73 SQ MI

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HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .85

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DA MON	HRMN	ORD	FLOW	DA MON	HRMN	ORD	FLOW	DA MON	HRMN	ORD	FLOW	DA MON	HRMN	ORD	FLOW
1	0000	1	0.	1	0615	76	15181.	1	1230	151	0.	1	1845	226	0.
1	0005	2	0.	1	0620	77	14070.	1	1235	152	0.	1	1850	227	0.
1	0010	3	0.	1	0625	78	12912.	1	1240	153	0.	1	1855	228	0.
1	0015	4	0.	1	0630	79	11728.	1	1245	154	0.	1	1900	229	0.
1	0020	5	5.	1	0635	80	10549.	1	1250	155	0.	1	1905	230	0.
1	0025	6	28.	1	0640	81	9406.	1	1255	156	0.	1	1910	231	0.
1	0030	7	68.	1	0645	82	8325.	1	1300	157	0.	1	1915	232	0.
1	0035	8	103.	1	0650	83	7326.	1	1305	158	0.	1	1920	233	0.
1	0040	9	118.	1	0655	84	6419.	1	1310	159	0.	1	1925	234	0.
1	0045	10	122.	1	0700	85	5605.	1	1315	160	0.	1	1930	235	0.
1	0050	11	124.	1	0705	86	4881.	1	1320	161	0.	1	1935	236	0.
1	0055	12	134.	1	0710	87	4240.	1	1325	162	0.	1	1940	237	0.
1	0100	13	157.	1	0715	88	3674.	1	1330	163	0.	1	1945	238	0.
1	0105	14	192.	1	0720	89	3174.	1	1335	164	0.	1	1950	239	0.
1	0110	15	243.	1	0725	90	2732.	1	1340	165	0.	1	1955	240	0.
1	0115	16	310.	1	0730	91	2341.	1	1345	166	0.	1	2000	241	0.
1	0120	17	390.	1	0735	92	1997.	1	1350	167	0.	1	2005	242	0.
1	0125	18	486.	1	0740	93	1694.	1	1355	168	0.	1	2010	243	0.
1	0130	19	608.	1	0745	94	1430.	1	1400	169	0.	1	2015	244	0.
1	0135	20	756.	1	0750	95	1201.	1	1405	170	0.	1	2020	245	0.
1	0140	21	915.	1	0755	96	1004.	1	1410	171	0.	1	2025	246	0.
1	0145	22	1070.	1	0800	97	836.	1	1415	172	0.	1	2030	247	0.
1	0150	23	1216.	1	0805	98	694.	1	1420	173	0.	1	2035	248	0.
1	0155	24	1351.	1	0810	99	574.	1	1425	174	0.	1	2040	249	0.
1	0200	25	1490.	1	0815	100	475.	1	1430	175	0.	1	2045	250	0.
1	0205	26	1635.	1	0820	101	391.	1	1435	176	0.	1	2050	251	0.
1	0210	27	1783.	1	0825	102	322.	1	1440	177	0.	1	2055	252	0.
1	0215	28	1941.	1	0830	103	265.	1	1445	178	0.	1	2100	253	0.
1	0220	29	2113.	1	0835	104	218.	1	1450	179	0.	1	2105	254	0.
1	0225	30	2290.	1	0840	105	179.	1	1455	180	0.	1	2110	255	0.
1	0230	31	2469.	1	0845	106	147.	1	1500	181	0.	1	2115	256	0.
1	0235	32	2648.	1	0850	107	121.	1	1505	182	0.	1	2120	257	0.
1	0240	33	2848.	1	0855	108	99.	1	1510	183	0.	1	2125	258	0.
1	0245	34	3083.	1	0900	109	81.	1	1515	184	0.	1	2130	259	0.
1	0250	35	3341.	1	0905	110	66.	1	1520	185	0.	1	2135	260	0.
1	0255	36	3596.	1	0910	111	53.	1	1525	186	0.	1	2140	261	0.
1	0300	37	3856.	1	0915	112	42.	1	1530	187	0.	1	2145	262	0.
1	0305	38	4156.	1	0920	113	33.	1	1535	188	0.	1	2150	263	0.
1	0310	39	4535.	1	0925	114	26.	1	1540	189	0.	1	2155	264	0.
1	0315	40	5036.	1	0930	115	20.	1	1545	190	0.	1	2200	265	0.
1	0320	41	5710.	1	0935	116	16.	1	1550	191	0.	1	2205	266	0.
1	0325	42	6616.	1	0940	117	12.	1	1555	192	0.	1	2210	267	0.
1	0330	43	7805.	1	0945	118	9.	1	1600	193	0.	1	2215	268	0.
1	0335	44	9045.	1	0950	119	7.	1	1605	194	0.	1	2220	269	0.
1	0340	45	9884.	1	0955	120	5.	1	1610	195	0.	1	2225	270	0.
1	0345	46	10547.	1	1000	121	4.	1	1615	196	0.	1	2230	271	0.
1	0350	47	11470.	1	1005	122	3.	1	1620	197	0.	1	2235	272	0.
1	0355	48	12713.	1	1010	123	2.	1	1625	198	0.	1	2240	273	0.
1	0400	49	14177.	1	1015	124	2.	1	1630	199	0.	1	2245	274	0.
1	0405	50	15796.	1	1020	125	1.	1	1635	200	0.	1	2250	275	0.
1	0410	51	17543.	1	1025	126	1.	1	1640	201	0.	1	2255	276	0.
1	0415	52	19432.	1	1030	127	1.	1	1645	202	0.	1	2300	277	0.
1	0420	53	21462.	1	1035	128	0.	1	1650	203	0.	1	2305	278	0.
1	0425	54	23594.	1	1040	129	0.	1	1655	204	0.	1	2310	279	0.
1	0430	55	25800.	1	1045	130	0.	1	1700	205	0.	1	2315	280	0.
1	0435	56	28004.	1	1050	131	0.	1	1705	206	0.	1	2320	281	0.

DA MON	HRMN	ORD	FLOW	DA MON	HRMN	ORD	FLOW	DA MON	HRMN	ORD	FLOW	DA MON	HRMN	ORD	FLOW
1	0440	57	30020.	1	1055	132	0.	1	1710	207	0.	1	2325	282	0.
1	0445	58	31651.	1	1100	133	0.	1	1715	208	0.	1	2330	283	0.
1	0450	59	32828.	1	1105	134	0.	1	1720	209	0.	1	2335	284	0.
1	0455	60	33481.	1	1110	135	0.	1	1725	210	0.	1	2340	285	0.
1	0500	61	33480.	1	1115	136	0.	1	1730	211	0.	1	2345	286	0.
1	0505	62	32877.	1	1120	137	0.	1	1735	212	0.	1	2350	287	0.
1	0510	63	31826.	1	1125	138	0.	1	1740	213	0.	1	2355	288	0.
1	0515	64	30454.	1	1130	139	0.	1	1745	214	0.	2	0000	289	0.
1	0520	65	28879.	1	1135	140	0.	1	1750	215	0.	2	0005	290	0.
1	0525	66	27216.	1	1140	141	0.	1	1755	216	0.	2	0010	291	0.
1	0530	67	25566.	1	1145	142	0.	1	1800	217	0.	2	0015	292	0.
1	0535	68	24000.	1	1150	143	0.	1	1805	218	0.	2	0020	293	0.
1	0540	69	22564.	1	1155	144	0.	1	1810	219	0.	2	0025	294	0.
1	0545	70	21285.	1	1200	145	0.	1	1815	220	0.	2	0030	295	0.
1	0550	71	20161.	1	1205	146	0.	1	1820	221	0.	2	0035	296	0.
1	0555	72	19146.	1	1210	147	0.	1	1825	222	0.	2	0040	297	0.
1	0600	73	18182.	1	1215	148	0.	1	1830	223	0.	2	0045	298	0.
1	0605	74	17223.	1	1220	149	0.	1	1835	224	0.	2	0050	299	0.
1	0610	75	16230.	1	1225	150	0.	1	1840	225	0.	2	0055	300	0.

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	PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
				6-HR	24-HR	72-HR	24.92-HR
+	(CFS)	(HR)					
			(CFS)				
+	33481.	4.92		12691.	3217.	3099.	3099.
			(INCHES)	2.156	2.186	2.186	2.186
			(AC-FT)	6293.	6381.	6381.	6381.

CUMULATIVE AREA = 54.73 SQ MI

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              *            *
230 KK        *     RRDB   *
              *            *
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243 KO          OUTPUT CONTROL VARIABLES
                      IPRNT           1  PRINT CONTROL
                      IPLOT           0  PLOT CONTROL
                      QSCAL          0.  HYDROGRAPH PLOT SCALE

                HYDROGRAPH ROUTING DATA

244 RS          STORAGE ROUTING
                      NSTPS           1  NUMBER OF SUBREACHES
                       ITYP        STOR  TYPE OF INITIAL CONDITION
                     RSVRIC       -1.00  INITIAL CONDITION
                          X         .00 WORKING R AND D COEFFICIENT

245 SV            STORAGE         .0       9.0     107.0     231.0     372.0     529.0     705.0     903.0    1125.0    1376.0
                              1659.0    1974.0    2007.0    2115.0    2331.0    2690.0    2933.0

247 SQ          DISCHARGE         0.       10.       57.       80.       99.      114.      128.      140.      151.      162.
                                171.      181.      182.     8654.    33270.   110918.   163477.

249 SE          ELEVATION    3161.00   3162.00   3167.00   3172.00   3177.00   3182.00   3187.00   3192.00   3197.00   3202.00
                             3207.00   3212.00   3212.50   3214.00   3217.00   3222.00   3225.00

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HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .88

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DA MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000	1	0.	.0	3161.0	1	0820	101	618.	2012.6	3212.6	1	1640	201	178.	1894.3	3210.7
1	0005	2	0.	.0	3161.0	1	0825	102	512.	2011.2	3212.6	1	1645	202	178.	1893.1	3210.7
1	0010	3	0.	.0	3161.0	1	0830	103	424.	2010.1	3212.5	1	1650	203	178.	1891.8	3210.7
1	0015	4	0.	.0	3161.0	1	0835	104	350.	2009.1	3212.5	1	1655	204	178.	1890.6	3210.7
1	0020	5	0.	.0	3161.0	1	0840	105	289.	2008.4	3212.5	1	1700	205	178.	1889.4	3210.7
1	0025	6	0.	.2	3161.0	1	0845	106	238.	2007.7	3212.5	1	1705	206	178.	1888.1	3210.6
1	0030	7	1.	.5	3161.1	1	0850	107	196.	2007.2	3212.5	1	1710	207	178.	1886.9	3210.6
1	0035	8	1.	1.2	3161.1	1	0855	108	182.	2006.7	3212.5	1	1715	208	178.	1885.7	3210.6
1	0040	9	2.	2.0	3161.2	1	0900	109	182.	2006.0	3212.5	1	1720	209	178.	1884.5	3210.6
1	0045	10	3.	2.9	3161.3	1	0905	110	182.	2005.3	3212.5	1	1725	210	178.	1883.2	3210.6
1	0050	11	4.	3.9	3161.4	1	0910	111	182.	2004.5	3212.5	1	1730	211	178.	1882.0	3210.5
1	0055	12	5.	4.8	3161.5	1	0915	112	182.	2003.6	3212.4	1	1735	212	178.	1880.8	3210.5
1	0100	13	7.	5.9	3161.7	1	0920	113	182.	2002.6	3212.4	1	1740	213	178.	1879.6	3210.5
1	0105	14	8.	7.2	3161.8	1	0925	114	182.	2001.5	3212.4	1	1745	214	178.	1878.3	3210.5
1	0110	15	10.	8.9	3162.0	1	0930	115	182.	2000.5	3212.4	1	1750	215	178.	1877.1	3210.5
1	0115	16	11.	11.0	3162.1	1	0935	116	182.	1999.3	3212.4	1	1755	216	178.	1875.9	3210.4
1	0120	17	12.	13.6	3162.2	1	0940	117	182.	1998.2	3212.4	1	1800	217	178.	1874.7	3210.4

1	0125	18	14.	17.0	3162.4	*	1	0945	118	182.	1997.0	3212.3	*	1	1805	218	178.	1873.4	3210.4
1	0130	19	16.	21.1	3162.6	*	1	0950	119	182.	1995.8	3212.3	*	1	1810	219	178.	1872.2	3210.4
1	0135	20	18.	26.3	3162.9	*	1	0955	120	182.	1994.6	3212.3	*	1	1815	220	178.	1871.0	3210.4
1	0140	21	21.	32.6	3163.2	*	1	1000	121	182.	1993.4	3212.3	*	1	1820	221	178.	1869.8	3210.3
1	0145	22	25.	40.0	3163.6	*	1	1005	122	182.	1992.2	3212.3	*	1	1825	222	178.	1868.5	3210.3
1	0150	23	29.	48.6	3164.0	*	1	1010	123	182.	1990.9	3212.3	*	1	1830	223	178.	1867.3	3210.3
1	0155	24	34.	58.1	3164.5	*	1	1015	124	181.	1989.7	3212.2	*	1	1835	224	178.	1866.1	3210.3
1	0200	25	39.	68.7	3165.0	*	1	1020	125	181.	1988.5	3212.2	*	1	1840	225	178.	1864.9	3210.3
1	0205	26	44.	80.2	3165.6	*	1	1025	126	181.	1987.2	3212.2	*	1	1845	226	177.	1863.6	3210.2
1	0210	27	50.	92.8	3166.3	*	1	1030	127	181.	1986.0	3212.2	*	1	1850	227	177.	1862.4	3210.2
1	0215	28	57.	106.4	3167.0	*	1	1035	128	181.	1984.7	3212.2	*	1	1855	228	177.	1861.2	3210.2
1	0220	29	60.	121.2	3167.6	*	1	1040	129	181.	1983.5	3212.1	*	1	1900	229	177.	1860.0	3210.2
1	0225	30	63.	137.2	3168.2	*	1	1045	130	181.	1982.2	3212.1	*	1	1905	230	177.	1858.8	3210.2
1	0230	31	66.	154.5	3168.9	*	1	1050	131	181.	1981.0	3212.1	*	1	1910	231	177.	1857.5	3210.2
1	0235	32	69.	173.0	3169.7	*	1	1055	132	181.	1979.7	3212.1	*	1	1915	232	177.	1856.3	3210.1
1	0240	33	73.	192.9	3170.5	*	1	1100	133	181.	1978.5	3212.1	*	1	1920	233	177.	1855.1	3210.1
1	0245	34	77.	214.3	3171.3	*	1	1105	134	181.	1977.2	3212.0	*	1	1925	234	177.	1853.9	3210.1
1	0250	35	81.	237.4	3172.2	*	1	1110	135	181.	1976.0	3212.0	*	1	1930	235	177.	1852.7	3210.1
1	0255	36	84.	262.3	3173.1	*	1	1115	136	181.	1974.8	3212.0	*	1	1935	236	177.	1851.4	3210.1
1	0300	37	88.	289.1	3174.1	*	1	1120	137	181.	1973.5	3212.0	*	1	1940	237	177.	1850.2	3210.0
1	0305	38	92.	317.9	3175.1	*	1	1125	138	181.	1972.3	3212.0	*	1	1945	238	177.	1849.0	3210.0
1	0310	39	96.	349.0	3176.2	*	1	1130	139	181.	1971.0	3212.0	*	1	1950	239	177.	1847.8	3210.0
1	0315	40	100.	383.4	3177.4	*	1	1135	140	181.	1969.8	3211.9	*	1	1955	240	177.	1846.6	3210.0
1	0320	41	104.	421.9	3178.6	*	1	1140	141	181.	1968.5	3211.9	*	1	2000	241	177.	1845.3	3210.0
1	0325	42	108.	466.0	3180.0	*	1	1145	142	181.	1967.3	3211.9	*	1	2005	242	177.	1844.1	3209.9
1	0330	43	113.	517.6	3181.6	*	1	1150	143	181.	1966.0	3211.9	*	1	2010	243	177.	1842.9	3209.9
1	0335	44	118.	577.9	3183.4	*	1	1155	144	181.	1964.8	3211.9	*	1	2015	244	177.	1841.7	3209.9
1	0340	45	123.	645.5	3185.3	*	1	1200	145	181.	1963.5	3211.8	*	1	2020	245	177.	1840.5	3209.9
1	0345	46	129.	718.4	3187.3	*	1	1205	146	181.	1962.3	3211.8	*	1	2025	246	177.	1839.2	3209.9
1	0350	47	134.	797.0	3189.3	*	1	1210	147	181.	1961.1	3211.8	*	1	2030	247	177.	1838.0	3209.8
1	0355	48	139.	883.4	3191.5	*	1	1215	148	181.	1959.8	3211.8	*	1	2035	248	177.	1836.8	3209.8
1	0400	49	144.	979.4	3193.7	*	1	1220	149	181.	1958.6	3211.8	*	1	2040	249	177.	1835.6	3209.8
1	0405	50	149.	1086.3	3196.1	*	1	1225	150	180.	1957.3	3211.7	*	1	2045	250	177.	1834.4	3209.8
1	0410	51	155.	1205.3	3198.6	*	1	1230	151	180.	1956.1	3211.7	*	1	2050	251	177.	1833.2	3209.8
1	0415	52	160.	1337.3	3201.2	*	1	1235	152	180.	1954.8	3211.7	*	1	2055	252	176.	1831.9	3209.7
1	0420	53	165.	1483.2	3203.9	*	1	1240	153	180.	1953.6	3211.7	*	1	2100	253	176.	1830.7	3209.7
1	0425	54	171.	1644.0	3206.7	*	1	1245	154	180.	1952.4	3211.7	*	1	2105	254	176.	1829.5	3209.7
1	0430	55	176.	1820.2	3209.6	*	1	1250	155	180.	1951.1	3211.6	*	1	2110	255	176.	1828.3	3209.7
1	0435	56	494.	2011.0	3212.6	*	1	1255	156	180.	1949.9	3211.6	*	1	2115	256	176.	1827.1	3209.7
1	0440	57	14599.	2167.2	3214.7	*	1	1300	157	180.	1948.6	3211.6	*	1	2120	257	176.	1825.9	3209.6
1	0445	58	24469.	2253.8	3215.9	*	1	1305	158	180.	1947.4	3211.6	*	1	2125	258	176.	1824.7	3209.6
1	0450	59	29592.	2298.7	3216.6	*	1	1310	159	180.	1946.1	3211.6	*	1	2130	259	176.	1823.4	3209.6
1	0455	60	32356.	2323.0	3216.9	*	1	1315	160	180.	1944.9	3211.5	*	1	2135	260	176.	1822.2	3209.6
1	0500	61	33992.	2334.3	3217.0	*	1	1320	161	180.	1943.7	3211.5	*	1	2140	261	176.	1821.0	3209.6
1	0505	62	34424.	2336.3	3217.1	*	1	1325	162	180.	1942.4	3211.5	*	1	2145	262	176.	1819.8	3209.6
1	0510	63	33743.	2333.2	3217.0	*	1	1330	163	180.	1941.2	3211.5	*	1	2150	263	176.	1818.6	3209.5
1	0515	64	32801.	2326.9	3216.9	*	1	1335	164	180.	1939.9	3211.5	*	1	2155	264	176.	1817.4	3209.5
1	0520	65	31683.	2317.1	3216.8	*	1	1340	165	180.	1938.7	3211.4	*	1	2200	265	176.	1816.2	3209.5
1	0525	66	30242.	2304.4	3216.6	*	1	1345	166	180.	1937.5	3211.4	*	1	2205	266	176.	1815.0	3209.5
1	0530	67	28639.	2290.4	3216.4	*	1	1350	167	180.	1936.2	3211.4	*	1	2210	267	176.	1813.7	3209.5
1	0535	68	26995.	2275.9	3216.2	*	1	1355	168	180.	1935.0	3211.4	*	1	2215	268	176.	1812.5	3209.4
1	0540	69	25396.	2261.9	3216.0	*	1	1400	169	180.	1933.8	3211.4	*	1	2220	269	176.	1811.3	3209.4
1	0545	70	23900.	2248.8	3215.9	*	1	1405	170	180.	1932.5	3211.3	*	1	2225	270	176.	1810.1	3209.4
1	0550	71	22542.	2236.9	3215.7	*	1	1410	171	180.	1931.3	3211.3	*	1	2230	271	176.	1808.9	3209.4
1	0555	72	21321.	2226.2	3215.5	*	1	1415	172	180.	1930.0	3211.3	*	1	2235	272	176.	1807.7	3209.4
1	0600	73	20208.	2216.4	3215.4	*	1	1420	173	180.	1928.8	3211.3	*	1	2240	273	176.	1806.5	3209.3
1	0605	74	19158.	2207.2	3215.3	*	1	1425	174	180.	1927.6	3211.3	*	1	2245	274	176.	1805.3	3209.3
1	0610	75	18128.	2198.1	3215.2	*	1	1430	175	179.	1926.3	3211.2	*	1	2250	275	176.	1804.1	3209.3
1	0615	76	17081.	2188.9	3215.0	*	1	1435	176	179.	1925.1	3211.2	*	1	2255	276	176.	1802.9	3209.3
1	0620	77	15992.	2179.4	3214.9	*	1	1440	177	179.	1923.9	3211.2	*	1	2300	277	176.	1801.6	3209.3
1	0625	78	14854.	2169.4	3214.8	*	1	1445	178	179.	1922.6	3211.2	*	1	2305	278	175.	1800.4	3209.2
1	0630	79	13672.	2159.0	3214.6	*	1	1450	179	179.	1921.4	3211.2	*	1	2310	279	175.	1799.2	3209.2
1	0635	80	12467.	2148.5	3214.5	*	1	1455	180	179.	1920.2	3211.1	*	1	2315	280	175.	1798.0	3209.2
1	0640	81	11263.	2137.9	3214.3	*	1	1500	181	179.	1918.9	3211.1	*	1	2320	281	175.	1796.8	3209.2
1	0645	82	10088.	2127.6	3214.2	*	1	1505	182	179.	1917.7	3211.1	*	1	2325	282	175.	1795.6	3209.2
1	0650	83	8968.	2117.8	3214.0	*	1	1510	183	179.	1916.5	3211.1	*	1	2330	283	175.	1794.4	3209.1
1	0655	84	8102.	2108.0	3213.9	*	1	1515	184	179.	1915.2	3211.1	*	1	2335	284	175.	1793.2	3209.1
1	0700	85	7303.	2097.8	3213.8	*	1	1520	185	179.	1914.0	3211.0	*	1	2340	285	175.	1792.0	3209.1
1	0705	86	6505.	2087.6	3213.6	*	1	1525	186	179.	1912.8	3211.0	*	1	2345	286	175.	1790.8	3209.1
1	0710	87	5746.	2077.9	3213.5	*	1	1530	187	179.	1911.5	3211.0	*	1	2350	287	175.	1789.6	3209.1
1	0715	88	5044.	2069.0	3213.4	*	1	1535	188	179.	1910.3	3211.0	*	1	2355	288	175.	1788.4	3209.1
1	0720	89	4406.	2060.8	3213.2	*	1	1540	189	179.	1909.1	3211.0	*	2	0000	289	175.	1787.2	3209.0
1	0725	90	3831.	2053.5	3213.1	*	1	1545	190	179.	1907.8	3210.9	*	2	0005	290	175.	1786.0	3209.0
1	0730	91	3318.	2047.0	3213.1	*	1	1550	191	179.	1906.6	3210.9	*	2	0010	291	175.	1784.7	3209.0
1	0735	92	2862.	2041.2	3213.0	*	1	1555	192	179.	1905.4	3210.9	*	2	0015	292	175.	1783.5	3209.0
1	0740	93	2457.	2036.0	3212.9	*	1	1600	193	179.	1904.1	3210.9	*	2	0020	293	175.	1782.3	3209.0
1	0745	94	2099.	2031.4	3212.8	*	1	1605	194	179.	1902.9	3210.9	*	2	0025	294	175.	1781.1	3208.9
1	0750	95	1785.	2027.4	3212.8	*	1	1610	195	179.	1901.7	3210.9	*	2	0030	295	175.	1779.9	3208.9
1	0755	96	1511.	2023.9	3212.7	*	1	1615	196	179.	1900.4	3210.8	*	2	0035	296	175.	1778.7	3208.9
1	0800	97	1273.	2020.9	3212.7	*	1	1620	197	179.	1899.2	3210.8	*	2	0040	297	175.	1777.5	3208.9
1	0805	98	1069.	2018.3	3212.7	*	1	1625	198	179.	1898.0	3210.8	*	2	0045	298	175.	1776.3	3208.9
1	0810	99	893.	2016.1	3212.6	*	1	1630	199	179.	1896.7	3210.8	*	2	0050	299	175.	1775.1	3208.8
1	0815	100	744.	2014.2	3212.6	*	1	1635	200	179.	1895.5	3210.8	*	2	0055	300	175.	1773.9	3208.8
						*							*						

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
	(CFS)				
+ 34424.	5.08	9365.	2460.	2369.	2369.
	(INCHES)	1.591	1.671	1.671	1.671
	(AC-FT)	4644.	4879.	4879.	4879.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
2336.	5.08	2100.	1713.	1650.	1650.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3217.07	5.08	3213.79	3206.08	3204.43	3204.43

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .87

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE		DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE		DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	3161.0	*	1		0820	101	610.	2012.5	3212.6	*	1		1640	201	178.	1894.2	3210.7
1		0005	2	0.	.0	3161.0	*	1		0825	102	505.	2011.1	3212.6	*	1		1645	202	178.	1893.0	3210.7
1		0010	3	0.	.0	3161.0	*	1		0830	103	418.	2010.0	3212.5	*	1		1650	203	178.	1891.8	3210.7
1		0015	4	0.	.0	3161.0	*	1		0835	104	345.	2009.1	3212.5	*	1		1655	204	178.	1890.5	3210.7
1		0020	5	0.	.0	3161.0	*	1		0840	105	285.	2008.3	3212.5	*	1		1700	205	178.	1889.3	3210.7
1		0025	6	0.	.2	3161.0	*	1		0845	106	235.	2007.7	3212.5	*	1		1705	206	178.	1888.1	3210.6
1		0030	7	1.	.5	3161.1	*	1		0850	107	193.	2007.1	3212.5	*	1		1710	207	178.	1886.8	3210.6
1		0035	8	1.	1.1	3161.1	*	1		0855	108	182.	2006.6	3212.5	*	1		1715	208	178.	1885.6	3210.6
1		0040	9	2.	1.9	3161.2	*	1		0900	109	182.	2006.0	3212.5	*	1		1720	209	178.	1884.4	3210.6
1		0045	10	3.	2.8	3161.3	*	1		0905	110	182.	2005.3	3212.5	*	1		1725	210	178.	1883.2	3210.6
1		0050	11	4.	3.7	3161.4	*	1		0910	111	182.	2004.4	3212.5	*	1		1730	211	178.	1881.9	3210.5
1		0055	12	5.	4.6	3161.5	*	1		0915	112	182.	2003.5	3212.4	*	1		1735	212	178.	1880.7	3210.5
1		0100	13	6.	5.7	3161.6	*	1		0920	113	182.	2002.5	3212.4	*	1		1740	213	178.	1879.5	3210.5
1		0105	14	8.	6.9	3161.8	*	1		0925	114	182.	2001.5	3212.4	*	1		1745	214	178.	1878.3	3210.5
1		0110	15	9.	8.5	3161.9	*	1		0930	115	182.	2000.4	3212.4	*	1		1750	215	178.	1877.0	3210.5
1		0115	16	11.	10.5	3162.1	*	1		0935	116	182.	1999.3	3212.4	*	1		1755	216	178.	1875.8	3210.4
1		0120	17	12.	13.0	3162.2	*	1		0940	117	182.	1998.1	3212.4	*	1		1800	217	178.	1874.6	3210.4
1		0125	18	13.	16.1	3162.4	*	1		0945	118	182.	1996.9	3212.3	*	1		1805	218	178.	1873.4	3210.4
1		0130	19	15.	20.1	3162.6	*	1		0950	119	182.	1995.7	3212.3	*	1		1810	219	178.	1872.1	3210.4
1		0135	20	18.	25.0	3162.8	*	1		0955	120	182.	1994.5	3212.3	*	1		1815	220	178.	1870.9	3210.4
1		0140	21	21.	31.0	3163.1	*	1		1000	121	182.	1993.3	3212.3	*	1		1820	221	178.	1869.7	3210.3
1		0145	22	24.	38.2	3163.5	*	1		1005	122	182.	1992.1	3212.3	*	1		1825	222	178.	1868.5	3210.3
1		0150	23	28.	46.4	3163.9	*	1		1010	123	182.	1990.9	3212.3	*	1		1830	223	178.	1867.2	3210.3
1		0155	24	32.	55.6	3164.4	*	1		1015	124	181.	1989.6	3212.2	*	1		1835	224	178.	1866.0	3210.3
1		0200	25	37.	65.7	3164.9	*	1		1020	125	181.	1988.4	3212.2	*	1		1840	225	178.	1864.8	3210.3
1		0205	26	43.	76.9	3165.5	*	1		1025	126	181.	1987.1	3212.2	*	1		1845	226	177.	1863.6	3210.2
1		0210	27	48.	89.0	3166.1	*	1		1030	127	181.	1985.9	3212.2	*	1		1850	227	177.	1862.3	3210.2
1		0215	28	55.	102.2	3166.8	*	1		1035	128	181.	1984.7	3212.2	*	1		1855	228	177.	1861.1	3210.2
1		0220	29	59.	116.5	3167.4	*	1		1040	129	181.	1983.4	3212.1	*	1		1900	229	177.	1859.9	3210.2
1		0225	30	62.	132.0	3168.0	*	1		1045	130	181.	1982.2	3212.1	*	1		1905	230	177.	1858.7	3210.2
1		0230	31	65.	148.7	3168.7	*	1		1050	131	181.	1980.9	3212.1	*	1		1910	231	177.	1857.5	3210.2
1		0235	32	68.	166.7	3169.4	*	1		1055	132	181.	1979.7	3212.1	*	1		1915	232	177.	1856.2	3210.1
1		0240	33	72.	186.0	3170.2	*	1		1100	133	181.	1978.4	3212.1	*	1		1920	233	177.	1855.0	3210.1
1		0245	34	76.	206.8	3171.0	*	1		1105	134	181.	1977.2	3212.0	*	1		1925	234	177.	1853.8	3210.1
1		0250	35	80.	229.3	3171.9	*	1		1110	135	181.	1975.9	3212.0	*	1		1930	235	177.	1852.6	3210.1
1		0255	36	83.	253.6	3172.8	*	1		1115	136	181.	1974.7	3212.0	*	1		1935	236	177.	1851.4	3210.1
1		0300	37	87.	279.7	3173.7	*	1		1120	137	181.	1973.4	3212.0	*	1		1940	237	177.	1850.1	3210.0
1		0305	38	90.	307.8	3174.7	*	1		1125	138	181.	1972.2	3212.0	*	1		1945	238	177.	1848.9	3210.0
1		0310	39	94.	338.2	3175.8	*	1		1130	139	181.	1970.9	3212.0	*	1		1950	239	177.	1847.7	3210.0
1		0315	40	99.	371.7	3177.0	*	1		1135	140	181.	1969.7	3211.9	*	1		1955	240	177.	1846.5	3210.0
1		0320	41	103.	409.3	3178.2	*	1		1140	141	181.	1968.4	3211.9	*	1		2000	241	177.	1845.3	3210.0
1		0325	42	107.	452.5	3179.6	*	1		1145	142	181.	1967.2	3211.9	*	1		2005	242	177.	1844.0	3209.9
1		0330	43	112.	503.0	3181.2	*	1		1150	143	181.	1966.0	3211.9	*	1		2010	243	177.	1842.8	3209.9
1		0335	44	117.	562.1	3182.9	*	1		1155	144	181.	1964.7	3211.9	*	1		2015	244	177.	1841.6	3209.9
1		0340	45	122.	628.4	3184.8	*	1		1200	145	181.	1963.5	3211.8	*	1		2020	245	177.	1840.4	3209.9
1		0345	46	128.	700.0	3186.9	*	1		1205	146	181.	1962.2	3211.8	*	1		2025	246	177.	1839.2	3209.9
1		0350	47	132.	777.1	3188.8	*	1		1210	147	181.	1961.0	3211.8	*	1		2030	247	177.	1838.0	3209.8
1		0355	48	138.	861.9	3191.0	*	1		1215	148	181.	1959.7	3211.8	*	1		2035	248	177.	1836.7	3209.8
1		0400	49	143.	956.1	3193.2	*	1		1220	149	181.	1958.5	3211.8	*	1		2040	249	177.	1835.5	3209.8
1		0405	50	148.	1061.2	3195.6	*	1		1225	150	180.	1957.2	3211.7	*	1		2045	250	177.	1834.3	3209.8
1		0410	51	153.	1178.1	3198.1	*	1		1230	151	180.	1956.0	3211.7	*	1		2050	251	177.	1833.1	3209.8
1		0415	52	159.	1307.8	3200.6	*	1		1235	152	180.	1954.8	3211.7	*	1		2055	252	176.	1831.9	3209.7
1		0420	53	164.	1451.2	3203.3	*	1		1240	153	180.	1953.5	3211.7	*	1		2100	253	176.	1830.7	3209.7
1		0425	54	169.	1609.3	3206.1	*	1		1245	154	180.	1952.3	3211.7	*	1		2105	254	176.	1829.4	3209.7
1		0430	55	175.	1782.5	3209.0	*	1		1250	155	180.	1951.0	3211.6	*	1		2110	255	176.	1828.2	3209.7
1		0435	56	181.	1971.3	3212.0	*	1		1255	156	180.	1949.8	3211.6	*	1		2115	256	176.	1827.0	3209.7
1		0440	57	11166.	2137.0	3214.3	*	1		1300	157	180.	1948.6	3211.6	*	1		2120	257	176.	1825.8	3209.6
1		0445	58	22684.	2238.1	3215.7	*	1		1305	158	180.	1947.3	3211.6	*	1		2125	258	176.	1824.6	3209.6
1		0450	59	28516.	2289.3	3216.4	*	1		1310	159	180.	1946.1	3211.6	*	1		2130	259	176.	1823.4	3209.6
1		0455	60	31584.	2316.2	3216.8	*	1		1315	160	180.	1944.8	3211.5	*	1		2135	260	176.	1822.2	3209.6
1		0500	61	33107.	2329.6	3217.0	*	1		1320	161	180.	1943.6	3211.5	*	1		2140	261	176.	1820.9	3209.6
1		0505	62	33759.	2333.3	3217.0	*	1		1325	162	180.	1942.4	3211.5	*	1		2145	262	176.	1819.7	3209.6
1		0510	63	33231.	2330.7	3217.0	*	1		1330	163	180.	1941.1	3211.5	*	1		2150	263	176.	1818.5	3209.5
1		0515	64	32464.	2323.9	3216.9	*	1		1335	164	180.	1939.9	3211.5	*	1		2155	264	176.	1817.3	3209.5
1		0520	65	31276.	2313.5	3216.8	*	1		1340	165	180.	1938.6	3211.4	*	1		2200	265	176.	1816.1	3209.5
1		0525	66	29821.	2300.7	3216.6	*	1		1345	166	180.	1937.4	3211.4	*	1		2205	266	176.	1814.9	3209.5
1		0530	67	28228.	2286.8	3216.4	*	1		1350	167	180.	1936.2	3211.4	*	1		2210	267	176.	1813.7	3209.5
1		0535	68	26604.	2272.5	3216.2	*	1		1355	168	180.	1934.9	3211.4	*	1		2215	268	176.	1812.5	3209.4
1		0540	69	25027.	2258.7	3216.0	*	1		1400	169	180.	1933.7	3211.4	*	1		2220	269	176.	1811

1		0600	73	19921.	2213.9	3215.4	1		1420	173	180.	1928.7	3211.3	1		2240	273	176.	1806.4	3209.3
1		0605	74	18888.	2204.8	3215.2	1		1425	174	180.	1927.5	3211.3	1		2245	274	176.	1805.2	3209.3
1		0610	75	17874.	2195.9	3215.1	1		1430	175	179.	1926.3	3211.2	1		2250	275	176.	1804.0	3209.3
1		0615	76	16842.	2186.9	3215.0	1		1435	176	179.	1925.0	3211.2	1		2255	276	176.	1802.8	3209.3
1		0620	77	15770.	2177.4	3214.9	1		1440	177	179.	1923.8	3211.2	1		2300	277	176.	1801.6	3209.3
1		0625	78	14648.	2167.6	3214.7	1		1445	178	179.	1922.6	3211.2	1		2305	278	175.	1800.4	3209.2
1		0630	79	13484.	2157.4	3214.6	1		1450	179	179.	1921.3	3211.2	1		2310	279	175.	1799.2	3209.2
1		0635	80	12296.	2147.0	3214.4	1		1455	180	179.	1920.1	3211.1	1		2315	280	175.	1797.9	3209.2
1		0640	81	11109.	2136.5	3214.3	1		1500	181	179.	1918.8	3211.1	1		2320	281	175.	1796.7	3209.2
1		0645	82	9950.	2126.4	3214.2	1		1505	182	179.	1917.6	3211.1	1		2325	282	175.	1795.5	3209.2
1		0650	83	8846.	2116.7	3214.0	1		1510	183	179.	1916.4	3211.1	1		2330	283	175.	1794.3	3209.1
1		0655	84	8021.	2106.9	3213.9	1		1515	184	179.	1915.1	3211.1	1		2335	284	175.	1793.1	3209.1
1		0700	85	7220.	2096.7	3213.7	1		1520	185	179.	1913.9	3211.0	1		2340	285	175.	1791.9	3209.1
1		0705	86	6426.	2086.6	3213.6	1		1525	186	179.	1912.7	3211.0	1		2345	286	175.	1790.7	3209.1
1		0710	87	5673.	2077.0	3213.5	1		1530	187	179.	1911.4	3211.0	1		2350	287	175.	1789.5	3209.1
1		0715	88	4979.	2068.1	3213.3	1		1535	188	179.	1910.2	3211.0	1		2355	288	175.	1788.3	3209.1
1		0720	89	4348.	2060.1	3213.2	1		1540	189	179.	1909.0	3211.0	2		0000	289	175.	1787.1	3209.0
1		0725	90	3781.	2052.9	3213.1	1		1545	190	179.	1907.7	3210.9	2		0005	290	175.	1785.9	3209.0
1		0730	91	3274.	2046.4	3213.0	1		1550	191	179.	1906.5	3210.9	2		0010	291	175.	1784.7	3209.0
1		0735	92	2823.	2040.7	3213.0	1		1555	192	179.	1905.3	3210.9	2		0015	292	175.	1783.5	3209.0
1		0740	93	2424.	2035.6	3212.9	1		1600	193	179.	1904.1	3210.9	2		0020	293	175.	1782.3	3209.0
1		0745	94	2071.	2031.1	3212.8	1		1605	194	179.	1902.8	3210.9	2		0025	294	175.	1781.1	3208.9
1		0750	95	1762.	2027.1	3212.8	1		1610	195	179.	1901.6	3210.9	2		0030	295	175.	1779.9	3208.9
1		0755	96	1491.	2023.7	3212.7	1		1615	196	179.	1900.4	3210.8	2		0035	296	175.	1778.7	3208.9
1		0800	97	1256.	2020.7	3212.7	1		1620	197	179.	1899.1	3210.8	2		0040	297	175.	1777.4	3208.9
1		0805	98	1054.	2018.1	3212.7	1		1625	198	179.	1897.9	3210.8	2		0045	298	175.	1776.2	3208.9
1		0810	99	881.	2015.9	3212.6	1		1630	199	179.	1896.7	3210.8	2		0050	299	175.	1775.0	3208.8
1		0815	100	734.	2014.0	3212.6	1		1635	200	179.	1895.4	3210.8	2		0055	300	175.	1773.8	3208.8

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 PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                    6-HR       24-HR       72-HR     24.92-HR
+   (CFS)       (HR)
                          (CFS)
+   33759.      5.08                9146.       2405.       2316.        2316.
                        (INCHES)    1.554       1.634       1.634        1.634
                         (AC-FT)    4535.       4770.       4770.        4770.

PEAK STORAGE   TIME                        MAXIMUM AVERAGE STORAGE
                                    6-HR       24-HR       72-HR     24.92-HR
+  (AC-FT)      (HR)
     2333.      5.08                2098.       1711.       1648.        1648.

 PEAK STAGE    TIME                          MAXIMUM AVERAGE STAGE
                                    6-HR       24-HR       72-HR     24.92-HR
+   (FEET)      (HR)
   3217.03      5.08              3213.76     3206.03     3204.38      3204.38

                     CUMULATIVE AREA =   54.73 SQ MI
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HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .86

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	3161.0	1		0820	101	603.	2012.4	3212.6	1		1640	201	178.	1894.2	3210.7
1		0005	2	0.	.0	3161.0	1		0825	102	500.	2011.1	3212.6	1		1645	202	178.	1892.9	3210.7
1		0010	3	0.	.0	3161.0	1		0830	103	413.	2010.0	3212.5	1		1650	203	178.	1891.7	3210.7
1		0015	4	0.	.0	3161.0	1		0835	104	341.	2009.0	3212.5	1		1655	204	178.	1890.5	3210.7
1		0020	5	0.	.0	3161.0	1		0840	105	282.	2008.3	3212.5	1		1700	205	178.	1889.2	3210.7
1		0025	6	0.	.1	3161.0	1		0845	106	232.	2007.6	3212.5	1		1705	206	178.	1888.0	3210.6
1		0030	7	1.	.5	3161.1	1		0850	107	191.	2007.1	3212.5	1		1710	207	178.	1886.8	3210.6
1		0035	8	1.	1.1	3161.1	1		0855	108	182.	2006.6	3212.5	1		1715	208	178.	1885.6	3210.6
1		0040	9	2.	1.9	3161.2	1		0900	109	182.	2006.0	3212.5	1		1720	209	178.	1884.3	3210.6
1		0045	10	3.	2.7	3161.3	1		0905	110	182.	2005.2	3212.5	1		1725	210	178.	1883.1	3210.6
1		0050	11	4.	3.5	3161.4	1		0910	111	182.	2004.4	3212.5	1		1730	211	178.	1881.9	3210.5
1		0055	12	5.	4.4	3161.5	1		0915	112	182.	2003.5	3212.4	1		1735	212	178.	1880.6	3210.5
1		0100	13	6.	5.4	3161.6	1		0920	113	182.	2002.5	3212.4	1		1740	213	178.	1879.4	3210.5
1		0105	14	7.	6.6	3161.7	1		0925	114	182.	2001.4	3212.4	1		1745	214	178.	1878.2	3210.5
1		0110	15	9.	8.1	3161.9	1		0930	115	182.	2000.3	3212.4	1		1750	215	178.	1877.0	3210.5
1		0115	16	10.	10.0	3162.1	1		0935	116	182.	1999.2	3212.4	1		1755	216	178.	1875.7	3210.4
1		0120	17	12.	12.5	3162.2	1		0940	117	182.	1998.1	3212.4	1		1800	217	178.	1874.5	3210.4
1		0125	18	13.	15.5	3162.3	1		0945	118	182.	1996.9	3212.3	1		1805	218	178.	1873.3	3210.4
1		0130	19	15.	19.3	3162.5	1		0950	119	182.	1995.7	3212.3	1		1810	219	178.	1872.1	3210.4
1		0135	20	17.	24.0	3162.8	1		0955	120	182.	1994.5	3212.3	1		1815	220	178.	1870.8	3210.4
1		0140	21	20.	29.9	3163.1	1		1000	121	182.	1993.3	3212.3	1		1820	221	178.	1869.6	3210.3
1		0145	22	23.	36.8	3163.4	1		1005	122	182.	1992.0	3212.3	1		1825	222	178.	1868.4	3210.3
1		0150	23	27.	44.7	3163.8	1		1010	123	182.	1990.8	3212.3	1		1830	223	178.	1867.2	3210.3
1		0155	24	31.	53.6	3164.3	1		1015	124	181.	1989.6	3212.2	1		1835	224	178.	1866.0	3210.3
1		0200	25	36.	63.4	3164.8	1		1020	125	181.	1988.3	3212.2	1		1840	225	178.	1864.7	3210.3
1		0205	26	41.	74.2	3165.3	1		1025	126	181.	1987.1	3212.2	1		1845	226	177.	1863.5	3210.2
1		0210	27	47.	86.0	3165.9	1		1030	127	181.	1985.8	3212.2	1		1850	227	177.	1862.3	3210.2
1		0215	28	53.	98.8	3166.6	1		1035	128	181.	1984.6	3212.2	1		1855	228	177.	1861.1	3210.2
1		0220	29	58.	112.7	3167.2	1		1040	129	181.	1983.3	3212.1	1		1900	229	177.	1859.8	3210.2
1		0225	30	61.	127.8	3167.8	1		1045	130	181.	1982.1	3212.1	1		1905	230	177.	1858.6	3210.2
1		0230	31	64.	144.2	3168.5	1		1050	131	181.	1980.9	3212.1	1		1910	231	177.	1857.4	3210.1
1		0235	32	67.	161.7	3169.2	1		1055	132	181.	1979.6	3212.1	1		1915	232	177.	1856.2	3210.1
1		0240	33	71.	180.5	3170.0	1		1100	133	181.	1978.4	3212.1	1		1920	233	177.	1855.0	3210.1
1		0245	34	74.	200.9	3170.8	1		1105	134	181.	1977.1	3212.0	1		1925	234	177.	1853.7	3210.1
1		0250	35	78.	222.9	3171.7	1		1110	135	181.	1975.9	3212.0	1		1930	235	177.	1852.5	3210.1
1		0255	36	82.	246.7	3172.6	1		1115	136	181.	1974.6	3212.0	1		1935	236	177.	1851.3	3210.1
1		0300	37	86.	272.3	3173.5	1		1120	137	181.	1973.4	3212.0	1		1940	237	177.	1850.1	3210.0
1		0305	38	89.	299.7	3174.4	1		1125	138	181.	1972.1	3212.0	1		1945	238	177.	1848.9	3210.0
1		0310	39	93.	329.6	3175.5	1		1130	139	181.	1970.9	3212.0	1		1950	239	177.	1847.6	3210.0
1		0315	40	98.	362.4	3176.7	1		1135	140	181.	1969.6	3211.9	1		1955	240	177.	1846.4	3210.0
1		0320	41	102.	399.4	3177.9	1		1140	141	181.	1968.4	3211.9	1		2000	241	177.	1845.2	3210.0
1		0325	42	106.	441.8	3179.2	1		1145	142	181.	1967.1	3211.9	1		2005	242	177.	1844.0	3209.9
1		0330	43	110.	491.5	3180.8	1		1150	143	181.	1965.9	3211.9	1		2010	243	177.	1842.8	3209.9
1		0335	44	116.	549.6	3182.6	1		1155	144	181.	1964.7	3211.9	1		2015	244	177.	1841.5	3209.9
1		0340	45	121.	614.9	3184.4	1		1200	145	181.	1963.4	3211.8	1		2020	245	177.	1840.3	3209.9
1		0345	46	126.	685.3	3186.4	1		1205	146	181.	1962.2	3211.8	1		2025	246	177.	1839.1	3209.9
1		0350	47	131.	761.2	3188.4	1		1210	147	181.	1960.9	3211.8	1		2030	247	177.	1837.9	3209.8
1		0355	48	136.	844.7	3190.5	1		1215	148	181.	1959.7	3211.8	1		2035	248	177.	1836.7	3209.8
1		0400	49	142.	937.5	3192.8	1		1220	149	181.	1958.4	3211.8	1		2040	249	177.	1835.5	3209.8
1		0405	50	147.	1041.1	3195.1	1		1225	150	180.	1957.2	3211.7	1		2045	250	177.	1834.2	3209.8
1		0410	51	152.	1156.3	3197.6	1		1230	151	180.	1955.9	3211.7	1		2050	251	177.	1833.0	3209.8
1		0415	52	158.	1284.2	3200.2	1		1235	152	180.	1954.7	3211.7	1		2055	252	176.	1831.8	3209.7
1		0420	53	164.	1425.7	3202.9	1		1240	153	180.	1953.5	3211.7	1		2100	253	176.	1830.6	3209.7
1		0425	54	169.	1581.6	3205.6	1		1245	154	180.	1952.2	3211.7	1		2105	254	176.	1829.4	3209.7
1		0430	55	174.	1752.5	3208.5	1		1250	155	180.	1951.0	3211.6	1		2110	255	176.	1828.2	3209.7
1		0435	56	180.	1938.8	3211.4	1		1255	156	180.	1949.7	3211.6	1		2115	256	176.	1827.0	3209.7
1		0440	57	8375.	2111.4	3214.0	1		1300	157	180.	1948.5	3211.6	1		2120	257	176.	1825.7	3209.6
1		0445	58	21146.	2224.6	3215.5	1		1305	158	180.	1947.3	3211.6	1		2125	258	176.	1824.5	3209.6
1		0450	59	27607.	2281.3	3216.3	1		1310	159	180.	1946.0	3211.6	1		2130	259	176.	1823.3	3209.6
1		0455	60	30946.	2310.6	3216.7	1		1315	160	180.	1944.8	3211.5	1		2135	260	176.	1822.1	3209.6
1		0500	61	32586.	2325.0	3216.9	1		1320	161	180.	1943.5	3211.5	1		2140	261	176.	1820.9	3209.6
1		0505	62	33129.	2329.8	3217.0	1		1325	162	180.	1942.3	3211.5	1		2145	262	176.	1819.7	3209.6
1		0510	63	32893.	2327.7	3217.0	1		1330	163	180.	1941.1	3211.5	1		2150	263	176.	1818.5	3209.5
1		0515	64	32097.	2320.7	3216.9	1		1335	164	180.	1939.8	3211.5	1		2155	264	176.	1817.3	3209.5
1		0520	65	30908.	2310.3	3216.7	1		1340	165	180.	1938.6	3211.4	1		2200	265	176.	1816.0	3209.5
1		0525	66	29466.	2297.6	3216.5	1		1345	166	180.	1937.3	3211.4	1		2205	266	176.	1814.8	3209.5
1		0530	67	27891.	2283.8	3216.3	1		1350	167	180.	1936.1	3211.4	1		2210	267	176.	1813.6	3209.5
1		0535	68	26287.	2269.7	3216.1	1		1355	168	180.	1934.9	3211.4	1		2215	268	176.	1812.4	3209.4
1		0540	69	24731.	2256.1	3216.0	1		1400	169	180.	1933.6	3211.4	1		2220	269	176.	1811.2	3209.4
1		0545	70	23278.	2243.3	3215.8	1		1405	170	180.	1932.4	3211.3	1		2225	270	176.	1810.0	3209.4
1		0550	71	21959.	2231.7	3215.6	1		1410	171	180.	1931.1	3211.3	1		2230	271	176.	1808.8	3209.4
1		0555	72	20773.	2221.3	3215.5	1		1415	172	180.	1929.9	3211.3	1		2235	272	176.	1807.6	3209.4
1		0600	73	19692.	2211.9	3215.3	1		1420	173	180.	1928.7	3211.3	1		2240	273	176.	1806.4	3209.3
1		0605	74	18672.	2202.9	3215.2	1		1425	174	180.	1927.4	3211.3	1		2245	274	176.	1805.1	3209.3
1		0610	75	17671.	2194.1	3215.1	1		1430	175	179.	1926.2	3211.2	1		2250	275	176.	1803.9	3209.3
1		0615	76	16652.	2185.2	3215.0	1		1435	176	179.	1925.0	3211.2	1		2255	276	176.	1802.7	3209.3
1		0620	77	15592.	2175.9	3214.8	1		1440	177	179.	1923.7	3211.2	1		2300	277	176.	1801.5	3209.3
1		0625	78	14484.	2166.2	3214.7	1		1445	178	179.	1922.5	3211.2	1		2305	278	175.	1800.3	3209.2
1		0630	79	13333.	2156.1	3214.6	1		1450	179	179.	1921.3	3211.2	1		2310	279	175.	1799.1	3209.2
1		0635	80	12159.	2145.8	3214.4	1		1455	180	179.	1920.0	3211.1	1		2315	280	175.	1797.9	3209.2
1		0640	81	10985.	2135.5	3214.3	1		1500	181	179.	1918.8	3211.1	1		2320	281	175.	1796.7	3209.2
1		0645	82	9840.	2125.4	3214.1	1		1505	182	179.	1917.6	3211.1	1		2325	282	175.	1795.5	3209.2
1		0650	83	8748.	2115.8	3214.0	1		1510	183	179.	1916.3	3211.1	1		2330	283	175.	1794.3	3209.1
1		0655	84	7956.	2106.1	3213.9	1		1515	184	179.	1915.1	3211.1	1		2335	284	175.	1793.1	3209.1
1		0700	85	7154.	2095.9	3213.7	1		1520	185	179.	1913.9	3211.0	1		2340	285	175.	1791.9	3209.1
1		0705	86	6363.	2085.8	3213.6	1		1525	186	179.	1912.6	3211.0	1		2345	286	175.	1790.6	3209.1
1		0710	87	5615.	2076.3	3213.5	1		1530	187	179.	1911.4	3211.0	1		2350	287	175.	1789.4	3209.1
1		0715	88	4927.	2067.5	3213.3	1		1535	188	179.	1910.2	3211.0	1		2355	288	175.	1788.2	3209.1
1		0720	89	4302.	2059.5	3213.2	1		1540	189	179.	1908.9	3211.0	2		0000	289	175.	1787.0	3209.0
1		0725	90	3740.	2052.4	3213.1	1		1545	190	179.	1907.7	3210.9	2		0005	290	175.	1785.8	3209.0
1		0730	91	3239.	2046.0	3213.0	1		1550	191	179.	1906.5	3210.9	2		0010	291	175.	1784.6	3209.0
1		0735	92	2793.	2040.3	3213.0	1		1555	192	179.	1905.2	3210.9	2		0015	292	175.	1783.4	3209.0
1		0740	93	2398.	2035.2	3212.9	1		1600	193	179.	1904.0	3210.9	2		0020	293	175.	1782.2	3209.0
1		0745	94	2049.	2030.8	3212.8	1		1605	194	179.	1902.8	3210.9	2		0025	294	175.	1781.0	3208.9
1		0750	95	1742.	2026.9	3212.8	1		1610	195	179.	1901.5	3210.8	2		0030	295	175.	1779.8	3208.9
1		0755	96	1475.	2023.5	3212.7	1		1615	196	179.	1900.3	3210.8	2		0035	296	175.	1778.6	3208.9
1		0800	97	1243.	2020.5	3212.7	1		1620	197	179.	1899.1	3210.8	2		0040	297	175.	1777.4	3208.9
1		0805	98	1043.	2018.0	3212.7	1		1625	198	179.	1897.8	3210.8	2		0045	298	175.	1776.2	3208.9
1		0810	99	872.	2015.8	3212.6	1		1630	199	179.	1896.6	3210.8	2		0050	299	175.	1775.0	3208.8
1		0815	100	726.	2013.9	3212.6	1		1635	200	179.	1895.4	3210.8	2		0055	300	175.	1773.8	3208.8

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 PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                    6-HR       24-HR       72-HR     24.92-HR
+   (CFS)       (HR)
                          (CFS)
+   33129.      5.08                8971.       2361.       2274.        2274.
                        (INCHES)    1.524       1.604       1.604        1.604
                         (AC-FT)    4448.       4683.       4683.        4683.

PEAK STORAGE   TIME                        MAXIMUM AVERAGE STORAGE
                                    6-HR       24-HR       72-HR     24.92-HR
+  (AC-FT)      (HR)
     2330.      5.08                2096.       1709.       1646.        1646.

 PEAK STAGE    TIME                          MAXIMUM AVERAGE STAGE
                                    6-HR       24-HR       72-HR     24.92-HR
+   (FEET)      (HR)
   3216.98      5.08              3213.74     3205.99     3204.34      3204.34

                     CUMULATIVE AREA =   54.73 SQ MI
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HYDROGRAPH AT STATION RRDB

PLAN 1, RATIO = .85

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	3161.0	1		0820	101	597.	2012.3	3212.6	1		1640	201	178.	1894.1	3210.7
1		0005	2	0.	.0	3161.0	1		0825	102	495.	2011.0	3212.6	1		1645	202	178.	1892.9	3210.7
1		0010	3	0.	.0	3161.0	1		0830	103	409.	2009.9	3212.5	1		1650	203	178.	1891.6	3210.7
1		0015	4	0.	.0	3161.0	1		0835	104	338.	2009.0	3212.5	1		1655	204	178.	1890.4	3210.7
1		0020	5	0.	.0	3161.0	1		0840	105	279.	2008.2	3212.5	1		1700	205	178.	1889.2	3210.7
1		0025	6	0.	.1	3161.0	1		0845	106	230.	2007.6	3212.5	1		1705	206	178.	1888.0	3210.6
1		0030	7	1.	.5	3161.1	1		0850	107	189.	2007.1	3212.5	1		1710	207	178.	1886.7	3210.6
1		0035	8	1.	1.0	3161.1	1		0855	108	182.	2006.6	3212.5	1		1715	208	178.	1885.5	3210.6
1		0040	9	2.	1.8	3161.2	1		0900	109	182.	2005.9	3212.5	1		1720	209	178.	1884.3	3210.6
1		0045	10	3.	2.6	3161.3	1		0905	110	182.	2005.2	3212.5	1		1725	210	178.	1883.1	3210.6
1		0050	11	4.	3.4	3161.4	1		0910	111	182.	2004.3	3212.5	1		1730	211	178.	1881.8	3210.5
1		0055	12	5.	4.3	3161.5	1		0915	112	182.	2003.4	3212.4	1		1735	212	178.	1880.6	3210.5
1		0100	13	6.	5.3	3161.6	1		0920	113	182.	2002.4	3212.4	1		1740	213	178.	1879.4	3210.5
1		0105	14	7.	6.4	3161.7	1		0925	114	182.	2001.4	3212.4	1		1745	214	178.	1878.1	3210.5
1		0110	15	9.	7.9	3161.9	1		0930	115	182.	2000.3	3212.4	1		1750	215	178.	1876.9	3210.5
1		0115	16	10.	9.7	3162.0	1		0935	116	182.	1999.2	3212.4	1		1755	216	178.	1875.7	3210.4
1		0120	17	11.	12.0	3162.2	1		0940	117	182.	1998.0	3212.4	1		1800	217	178.	1874.5	3210.4
1		0125	18	13.	15.0	3162.3	1		0945	118	182.	1996.8	3212.3	1		1805	218	178.	1873.2	3210.4
1		0130	19	15.	18.6	3162.5	1		0950	119	182.	1995.6	3212.3	1		1810	219	178.	1872.0	3210.4
1		0135	20	17.	23.2	3162.7	1		0955	120	182.	1994.4	3212.3	1		1815	220	178.	1870.8	3210.4
1		0140	21	20.	28.8	3163.0	1		1000	121	182.	1993.2	3212.3	1		1820	221	178.	1869.6	3210.3
1		0145	22	23.	35.5	3163.4	1		1005	122	182.	1992.0	3212.3	1		1825	222	178.	1868.3	3210.3
1		0150	23	26.	43.2	3163.7	1		1010	123	182.	1990.7	3212.3	1		1830	223	178.	1867.1	3210.3
1		0155	24	31.	51.9	3164.2	1		1015	124	181.	1989.5	3212.2	1		1835	224	178.	1865.9	3210.3
1		0200	25	35.	61.4	3164.7	1		1020	125	181.	1988.3	3212.2	1		1840	225	178.	1864.7	3210.3
1		0205	26	40.	71.9	3165.2	1		1025	126	181.	1987.0	3212.2	1		1845	226	177.	1863.5	3210.2
1		0210	27	46.	83.4	3165.8	1		1030	127	181.	1985.8	3212.2	1		1850	227	177.	1862.2	3210.2
1		0215	28	52.	95.9	3166.4	1		1035	128	181.	1984.5	3212.2	1		1855	228	177.	1861.0	3210.2
1		0220	29	57.	109.5	3167.1	1		1040	129	181.	1983.3	3212.1	1		1900	229	177.	1859.8	3210.2
1		0225	30	60.	124.2	3167.7	1		1045	130	181.	1982.0	3212.1	1		1905	230	177.	1858.6	3210.2
1		0230	31	63.	140.2	3168.3	1		1050	131	181.	1980.8	3212.1	1		1910	231	177.	1857.3	3210.1
1		0235	32	66.	157.4	3169.0	1		1055	132	181.	1979.6	3212.1	1		1915	232	177.	1856.1	3210.1
1		0240	33	70.	175.8	3169.8	1		1100	133	181.	1978.3	3212.1	1		1920	233	177.	1854.9	3210.1
1		0245	34	73.	195.8	3170.6	1		1105	134	181.	1977.1	3212.0	1		1925	234	177.	1853.7	3210.1
1		0250	35	77.	217.4	3171.5	1		1110	135	181.	1975.8	3212.0	1		1930	235	177.	1852.5	3210.1
1		0255	36	81.	240.7	3172.3	1		1115	136	181.	1974.6	3212.0	1		1935	236	177.	1851.2	3210.1
1		0300	37	85.	265.8	3173.2	1		1120	137	181.	1973.3	3212.0	1		1940	237	177.	1850.0	3210.0
1		0305	38	88.	292.8	3174.2	1		1125	138	181.	1972.1	3212.0	1		1945	238	177.	1848.8	3210.0
1		0310	39	92.	322.1	3175.2	1		1130	139	181.	1970.8	3211.9	1		1950	239	177.	1847.6	3210.0
1		0315	40	97.	354.4	3176.4	1		1135	140	181.	1969.6	3211.9	1		1955	240	177.	1846.4	3210.0
1		0320	41	101.	390.7	3177.6	1		1140	141	181.	1968.3	3211.9	1		2000	241	177.	1845.2	3210.0
1		0325	42	105.	432.5	3178.9	1		1145	142	181.	1967.1	3211.9	1		2005	242	177.	1843.9	3209.9
1		0330	43	109.	481.4	3180.5	1		1150	143	181.	1965.8	3211.9	1		2010	243	177.	1842.7	3209.9
1		0335	44	115.	538.6	3182.3	1		1155	144	181.	1964.6	3211.9	1		2015	244	177.	1841.5	3209.9
1		0340	45	120.	603.0	3184.1	1		1200	145	181.	1963.4	3211.8	1		2020	245	177.	1840.3	3209.9
1		0345	46	125.	672.5	3186.1	1		1205	146	181.	1962.1	3211.8	1		2025	246	177.	1839.1	3209.9
1		0350	47	131.	747.5	3188.1	1		1210	147	181.	1960.9	3211.8	1		2030	247	177.	1837.8	3209.8
1		0355	48	136.	829.8	3190.2	1		1215	148	181.	1959.6	3211.8	1		2035	248	177.	1836.6	3209.8
1		0400	49	141.	921.5	3192.4	1		1220	149	181.	1958.4	3211.8	1		2040	249	177.	1835.4	3209.8
1		0405	50	146.	1023.7	3194.7	1		1225	150	180.	1957.1	3211.7	1		2045	250	177.	1834.2	3209.8
1		0410	51	152.	1137.5	3197.2	1		1230	151	180.	1955.9	3211.7	1		2050	251	177.	1833.0	3209.8
1		0415	52	157.	1263.7	3199.8	1		1235	152	180.	1954.7	3211.7	1		2055	252	176.	1831.8	3209.7
1		0420	53	163.	1403.4	3202.5	1		1240	153	180.	1953.4	3211.7	1		2100	253	176.	1830.6	3209.7
1		0425	54	168.	1557.5	3205.2	1		1245	154	180.	1952.2	3211.7	1		2105	254	176.	1829.3	3209.7
1		0430	55	173.	1726.4	3208.1	1		1250	155	180.	1950.9	3211.6	1		2110	255	176.	1828.1	3209.7
1		0435	56	179.	1910.4	3211.0	1		1255	156	180.	1949.7	3211.6	1		2115	256	176.	1826.9	3209.7
1		0440	57	6482.	2087.3	3213.6	1		1300	157	180.	1948.4	3211.6	1		2120	257	176.	1825.7	3209.6
1		0445	58	19503.	2210.2	3215.3	1		1305	158	180.	1947.2	3211.6	1		2125	258	176.	1824.5	3209.6
1		0450	59	26682.	2273.2	3216.2	1		1310	159	180.	1946.0	3211.6	1		2130	259	176.	1823.3	3209.6
1		0455	60	30330.	2305.2	3216.6	1		1315	160	180.	1944.7	3211.5	1		2135	260	176.	1822.1	3209.6
1		0500	61	32106.	2320.8	3216.9	1		1320	161	180.	1943.5	3211.5	1		2140	261	176.	1820.8	3209.6
1		0505	62	32710.	2326.1	3216.9	1		1325	162	180.	1942.2	3211.5	1		2145	262	176.	1819.6	3209.5
1		0510	63	32508.	2324.3	3216.9	1		1330	163	180.	1941.0	3211.5	1		2150	263	176.	1818.4	3209.5
1		0515	64	31737.	2317.5	3216.8	1		1335	164	180.	1939.8	3211.5	1		2155	264	176.	1817.2	3209.5
1		0520	65	30570.	2307.3	3216.7	1		1340	165	180.	1938.5	3211.4	1		2200	265	176.	1816.0	3209.5
1		0525	66	29148.	2294.8	3216.5	1		1345	166	180.	1937.3	3211.4	1		2205	266	176.	1814.8	3209.5
1		0530	67	27594.	2281.2	3216.3	1		1350	167	180.	1936.0	3211.4	1		2210	267	176.	1813.6	3209.5
1		0535	68	26010.	2267.3	3216.1	1		1355	168	180.	1934.8	3211.4	1		2215	268	176.	1812.4	3209.4
1		0540	69	24472.	2253.8	3215.9	1		1400	169	180.	1933.6	3211.4	1		2220	269	176.	1811.1	3209.4
1		0545	70	23036.	2241.2	3215.8	1		1405	170	180.	1932.3	3211.3	1		2225	270	176.	1809.9	3209.4
1		0550	71	21732.	2229.8	3215.6	1		1410	171	180.	1931.1	3211.3	1		2230	271	176.	1808.7	3209.4
1		0555	72	20560.	2219.5	3215.5	1		1415	172	180.	1929.9	3211.3	1		2235	272	176.	1807.5	3209.4
1		0600	73	19491.	2210.1	3215.3	1		1420	173	180.	1928.6	3211.3	1		2240	273	176.	1806.3	3209.3
1		0605	74	18483.	2201.2	3215.2	1		1425	174	180.	1927.4	3211.3	1		2245	274	176.	1805.1	3209.3
1		0610	75	17493.	2192.6	3215.1	1		1430	175	179.	1926.1	3211.2	1		2250	275	176.	1803.9	3209.3
1		0615	76	16485.	2183.7	3215.0	1		1435	176	179.	1924.9	3211.2	1		2255	276	176.	1802.7	3209.3
1		0620	77	15437.	2174.5	3214.8	1		1440	177	179.	1923.7	3211.2	1		2300	277	176.	1801.5	3209.3
1		0625	78	14340.	2164.9	3214.7	1		1445	178	179.	1922.4	3211.2	1		2305	278	175.	1800.3	3209.2
1		0630	79	13202.	2154.9	3214.6	1		1450	179	179.	1921.2	3211.2	1		2310	279	175.	1799.0	3209.2
1		0635	80	12039.	2144.7	3214.4	1		1455	180	179.	1920.0	3211.1	1		2315	280	175.	1797.8	3209.2
1		0640	81	10877.	2134.5	3214.3	1		1500	181	179.	1918.7	3211.1	1		2320	281	175.	1796.6	3209.2
1		0645	82	9743.	2124.6	3214.1	1		1505	182	179.	1917.5	3211.1	1		2325	282	175.	1795.4	3209.2
1		0650	83	8662.	2115.1	3214.0	1		1510	183	179.	1916.3	3211.1	1		2330	283	175.	1794.2	3209.1
1		0655	84	7899.	2105.4	3213.9	1		1515	184	179.	1915.0	3211.1	1		2335	284	175.	1793.0	3209.1
1		0700	85	7096.	2095.1	3213.7	1		1520	185	179.	1913.8	3211.0	1		2340	285	175.	1791.8	3209.1
1		0705	86	6308.	2085.1	3213.6	1		1525	186	179.	1912.6	3211.0	1		2345	286	175.	1790.6	3209.1
1		0710	87	5565.	2075.6	3213.5	1		1530	187	179.	1911.3	3211.0	1		2350	287	175.	1789.4	3209.1
1		0715	88	4881.	2066.9	3213.3	1		1535	188	179.	1910.1	3211.0	1		2355	288	175.	1788.2	3209.1
1		0720	89	4261.	2059.0	3213.2	1		1540	189	179.	1908.9	3211.0	2		0000	289	175.	1787.0	3209.0
1		0725	90	3705.	2051.9	3213.1	1		1545	190	179.	1907.6	3210.9	2		0005	290	175.	1785.8	3209.0
1		0730	91	3208.	2045.6	3213.0	1		1550	191	179.	1906.4	3210.9	2		0010	291	175.	1784.6	3209.0
1		0735	92	2766.	2039.9	3213.0	1		1555	192	179.	1905.2	3210.9	2		0015	292	175.	1783.4	3209.0
1		0740	93	2375.	2035.0	3212.9	1		1600	193	179.	1903.9	3210.9	2		0020	293	175.	1782.2	3209.0
1		0745	94	2029.	2030.5	3212.8	1		1605	194	179.	1902.7	3210.9	2		0025	294	175.	1781.0	3208.9
1		0750	95	1726.	2026.7	3212.8	1		1610	195	179.	1901.5	3210.8	2		0030	295	175.	1779.7	3208.9
1		0755	96	1461.	2023.3	3212.7	1		1615	196	179.	1900.3	3210.8	2		0035	296	175.	1778.5	3208.9
1		0800	97	1231.	2020.4	3212.7	1		1620	197	179.	1899.0	3210.8	2		0040	297	175.	1777.3	3208.9
1		0805	98	1033.	2017.8	3212.7	1		1625	198	179.	1897.8	3210.8	2		0045	298	175.	1776.1	3208.9
1		0810	99	863.	2015.7	3212.6	1		1630	199	179.	1896.6	3210.8	2		0050	299	175.	1774.9	3208.8
1		0815	100	719.	2013.8	3212.6	1		1635	200	179.	1895.3	3210.8	2		0055	300	175.	1773.7	3208.8

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
	(CFS)				
+ 32710.	5.08	8818.	2323.	2237.	2237.
	(INCHES)	1.498	1.578	1.578	1.578
	(AC-FT)	4373.	4607.	4607.	4607.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
2326.	5.08	2095.	1708.	1645.	1645.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3216.93	5.08	3213.71	3205.95	3204.30	3204.30

CUMULATIVE AREA = 54.73 SQ MI

1

PEAK FLOW AND STAGE (END-OF-PERIOD) SUMMARY FOR MULTIPLE PLAN-RATIO ECONOMIC COMPUTATIONS
FLOWS IN CUBIC FEET PER SECOND, AREA IN SQUARE MILES
TIME TO PEAK IN HOURS

OPERATION	STATION	AREA	PLAN		RATIOS APPLIED TO PRECIPITATION RATIO 1	RATIO 2	RATIO 3	RATIO 4				
					.88	.87	.86	.85				
HYDROGRAPH AT												
+		RR1	4.22	1	FLOW	4779.	4704.	4645.	4593.			
					TIME	3.83	3.83	3.83	3.83			
HYDROGRAPH AT												
+		RR2	3.55	1	FLOW	3676.	3620.	3575.	3536.			
					TIME	4.00	4.00	4.00	4.00			
ROUTED TO												
+		RRR2	3.55	1	FLOW	3672.	3616.	3572.	3534.			
					TIME	4.00	4.00	4.00	4.00			
2 COMBINED AT												
+		CRR2	7.77	1	FLOW	8335.	8207.	8103.	8011.			
					TIME	3.92	3.92	3.92	3.92			
ROUTED TO												
+		RCRR2	7.77	1	FLOW	7844.	7723.	7626.	7540.			
					TIME	4.17	4.17	4.17	4.17			
HYDROGRAPH AT												
+		RR5	7.13	1	FLOW	6682.	6581.	6501.	6431.			
					TIME	4.00	4.00	4.00	4.00			
ROUTED TO												
+		R-RR5	7.13	1	FLOW	6455.	6358.	6281.	6214.			
					TIME	4.25	4.25	4.25	4.25			
HYDROGRAPH AT												
+		RR3	14.98	1	FLOW	11726.	11544.	11399.	11272.			
					TIME	4.17	4.17	4.17	4.17			
3 COMBINED AT												
+		CRR3	29.89	1	FLOW	25951.	25552.	25233.	24953.			
					TIME	4.17	4.17	4.17	4.17			
ROUTED TO												
+		RCRR3	29.89	1	FLOW	24552.	24175.	23874.	23611.			
					TIME	4.67	4.67	4.67	4.67			
HYDROGRAPH AT												
+		RR10	8.77	1	FLOW	5315.	5229.	5159.	5099.			
					TIME	4.33	4.33	4.33	4.33			
2 COMBINED AT												
+		CRR10	38.66	1	FLOW	29174.	28724.	28365.	28050.			
					TIME	4.67	4.67	4.67	4.67			

ROUTED TO								
+	RCRR10	38.66	1	FLOW	28085.	27651.	27303.	26999.
				TIME	5.00	5.00	5.00	5.00
HYDROGRAPH AT								
+	RR12A	5.82	1	FLOW	4339.	4272.	4218.	4171.
				TIME	4.17	4.17	4.17	4.17
ROUTED TO								
+	R-RR12A	5.82	1	FLOW	4197.	4132.	4080.	4035.
				TIME	4.42	4.42	4.42	4.42
HYDROGRAPH AT								
+	104A	3.39	1	FLOW	1739.	1706.	1680.	1657.
				TIME	4.25	4.25	4.25	4.25
3 COMBINED AT								
+	C104A	47.87	1	FLOW	32045.	31549.	31153.	30807.
				TIME	5.00	5.00	5.00	5.00
HYDROGRAPH AT								
+	RD1	.43	1	FLOW	583.	574.	567.	560.
				TIME	3.58	3.58	3.58	3.58
ROUTED TO								
+	R-RD1	.43	1	FLOW	566.	562.	551.	544.
				TIME	3.67	3.67	3.67	3.67
HYDROGRAPH AT								
+	RD2	.47	1	FLOW	759.	749.	740.	733.
				TIME	3.58	3.58	3.58	3.58
2 COMBINED AT								
+	CRD2	.90	1	FLOW	1296.	1280.	1264.	1248.
				TIME	3.58	3.58	3.58	3.58
ROUTED TO								
+	RCRD2	.90	1	FLOW	1245.	1226.	1211.	1201.
				TIME	3.67	3.67	3.67	3.67
HYDROGRAPH AT								
+	RD3	.33	1	FLOW	506.	499.	493.	488.
				TIME	3.58	3.58	3.58	3.58
2 COMBINED AT								
+	CRD3	1.23	1	FLOW	1730.	1703.	1687.	1662.
				TIME	3.58	3.58	3.58	3.58
HYDROGRAPH AT								
+	RR14A	4.60	1	FLOW	3288.	3236.	3195.	3159.
				TIME	4.17	4.17	4.17	4.17
ROUTED TO								
+	R-RR14A	4.60	1	FLOW	3278.	3225.	3185.	3148.
				TIME	4.17	4.17	4.17	4.17
HYDROGRAPH AT								
+	RD4	.40	1	FLOW	538.	529.	522.	516.
				TIME	3.58	3.58	3.58	3.58
2 COMBINED AT								
+	CRD4	5.00	1	FLOW	3390.	3335.	3294.	3255.
				TIME	4.17	4.17	4.17	4.17
ROUTED TO								
+	RCRD4	5.00	1	FLOW	3382.	3328.	3287.	3247.
				TIME	4.17	4.17	4.17	4.17
HYDROGRAPH AT								
+	RD5	.37	1	FLOW	515.	507.	500.	494.
				TIME	3.58	3.58	3.58	3.58
2 COMBINED AT								
+	CRD5	5.37	1	FLOW	3478.	3422.	3380.	3339.
				TIME	4.17	4.17	4.17	4.17
ROUTED TO								
+	RCRD5	5.37	1	FLOW	3472.	3415.	3374.	3333.
				TIME	4.17	4.17	4.17	4.17
HYDROGRAPH AT								
+	RD6	.25	1	FLOW	385.	379.	375.	371.
				TIME	3.58	3.58	3.58	3.58
2 COMBINED AT								
+	CRD6	5.62	1	FLOW	3539.	3481.	3440.	3397.
				TIME	4.17	4.17	4.17	4.17
3 COMBINED AT								
+	INRR	54.73	1	FLOW	34828.	34290.	33857.	33481.
				TIME	4.92	4.92	4.92	4.92
ROUTED TO								
+	RRDB	54.73	1	FLOW	34424.	33759.	33129.	32710.
				TIME	5.08	5.08	5.08	5.08
				** PEAK STAGES IN FEET **				
			1	STAGE	3217.07	3217.03	3216.98	3216.93
				TIME	5.08	5.08	5.08	5.08
DIVERSION TO								
+	*D-RROUT	54.73	1	FLOW	34242.	33577.	32947.	32528.
				TIME	5.08	5.08	5.08	5.08
HYDROGRAPH AT								
+	*DOUTRR	54.73	1	FLOW	182.	182.	182.	182.
				TIME	4.58	4.67	5.33	5.33
ROUTED TO								
+	ROUTRR	54.73	1	FLOW	182.	182.	182.	182.
				TIME	4.75	4.75	4.75	4.75
HYDROGRAPH AT								
+	R3A	.19	1	FLOW	242.	238.	235.	232.
				TIME	3.50	3.50	3.50	3.50
2 COMBINED AT								
+	CR3A	54.92	1	FLOW	351.	345.	341.	337.
				TIME	3.50	3.50	3.50	3.50
ROUTED TO								
+	RCR3A	54.92	1	FLOW	347.	342.	338.	335.
				TIME	3.67	3.67	3.67	3.67

1

*** NORMAL END OF HEC-1 ***

B.3.18 200-year_FLAM5A

```
1****************************************
 *                                      *
 *   FLOOD HYDROGRAPH PACKAGE  (HEC-1)  *
 *              JUN   1998              *
 *           VERSION 4.1                *
 *                                      *
 *  RUN DATE   20MAY20  TIME  10:08:03  *
 *                                      *
 ****************************************
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**************************************
*                                    *
*    U.S. ARMY CORPS OF ENGINEERS    *
*    HYDROLOGIC ENGINEERING CENTER   *
*         609 SECOND STREET          *
*       DAVIS, CALIFORNIA 95616      *
*            (916) 756-1104          *
*                                    *
**************************************
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X     X  XXXXXXX   XXXXX          X
X     X  X        X     X        XX
X     X  X        X              X
XXXXXXX  XXXX     X        XXXXX  X
X     X  X        X              X
X     X  X        X     X        X
X     X  XXXXXXX   XXXXX         XXX
```

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL   LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM


```
          LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
                    *DIAGRAM
 *** FREE ***
               1    ID   RED ROCK TRAIL TO FY19-87
               2    ID   US FEDERAL HIGHWAY ADMINISTRATION
               3    ID   PN WXXY4000
               4    ID
               5    ID   HEC-1 MODEL TAKEN FROM CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT (CCRFCD)
               6    ID   2018 MASTER PLAN UPDATE
               7    ID   FLAMINGO / TROPICANA WASHES WATERSHED
               8    ID   RECOMMENDED DRAINAGE SYSTEM WITH ULTIMATE DEVELOPMENT
               9    ID   INPUT FILE = FLAM3A.DAT
              10    ID   INPUT FILE DATE = MAY 2020
              11    ID
              12    ID   PRECIPITATION VALUES CREATED FROM LOGRITHMIC TRENDLINE FOR 2-YEAR THROUGH
              13    ID   100-YEAR ISOPLUVIALS MAPS FROM NOAA ATLAS 2 THAT HAVE BEEN ADJUSTED PER
              14    ID   CCRFCD HYDRAULIC CRITERIA & DRAINAGE DESIGN MANUAL TABLE 501
              15    ID
              16    ID   DESIGN STORM = 200-YEAR, 6-HOUR STORM
              17    ID   STORM DISTRIBUTION = SDN5
              18    ID   STORM CENTERING = SERIES A: REGIONAL DETENTION BASIN FLOWS NOT DIVERTED OUT
              19    ID   MODELED BY JACOBS (DAVE BERGH, PE)
              20    ID
              21    ID   JR CARDS CONTAIN DARFS BASED ON THE FOLLOWING VALUES:
              22    ID
              23    ID         AREA    DARF
              24    ID         SQ.MI.
              25    ID                 SDN 3   SDN 4   SDN 5
              26    ID         0 - 0.5 0.990
              27    ID         0.5 - 1 0.975
              28    ID         1 - 2   0.950
              29    ID         2 - 3   0.925
              30    ID         3 - 4   0.915
              31    ID         4 - 5   0.908
              32    ID         5 - 6   0.903
              33    ID         6 - 7   0.895
              34    ID         7 - 8   0.885
              35    ID         8 - 9           0.875
              36    ID         9 - 10          0.865
              37    ID         10 - 11         0.857
              38    ID         11 - 12         0.850
              39    ID         12 - 16                 0.832
              40    ID         16 - 20                 0.804
              41    ID         20 - 30                 0.765
              42    ID         30 - 40                 0.725
              43    ID         40 - 50                 0.695
              44    ID         50 - 100                0.640
              45    ID         100 - 150               0.580
              46    ID         150 - 200               0.530
              47    ID
              48    IT      5       0       0     300
              49    IO      5       0       0
              50    IN      5       0       0
              51    JR    PREC   0.832   0.804   0.765   0.725   0.695    0.64    0.58    0.53
                    *
```



```
          LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
              52    KK     RR1
              53    BA   4.225
              54    PB    4.60
              55    PC       0    0.02   0.059    0.08    0.11   0.144    0.15    0.16   0.168   0.171
              56    PC    0.18   0.182   0.187    0.19   0.197   0.202    0.21    0.22    0.23   0.241
              57    PC    0.25   0.259   0.265    0.28    0.29     0.3   0.305   0.309    0.31   0.317
              58    PC   0.321   0.327   0.333   0.346   0.361   0.381   0.408    0.43   0.477   0.514
              59    PC   0.561    0.63    0.71    0.72   0.731   0.752   0.779    0.79   0.795   0.804
              60    PC    0.81    0.82   0.826    0.84   0.859   0.889    0.91   0.938   0.966    0.97
              61    PC   0.974   0.979   0.981   0.983   0.985   0.989    0.99   0.992   0.993   0.996
              62    PC   0.997   0.999       1
              63    LS       0    85.8
              64    UD   0.443
                    *
              65    KK     RR2
              66    BA   3.547
              67    PB    4.65
              68    LS       0    86.2
              69    UD   0.545
                    *
              70    KK    RRR2
              71    KM   MUSKINGUM ROUTING UNSTABLE - USED MUSKINGUM-CUNGE
              72    KM   NATURAL WASH
              73    RD    1700   0.076    0.04       0    TRAP     100       2
                    *
              74    KK    CRR2
              75    KM   COMBINE RR1 AND RRR2
              76    HC       2
                    *
              77    KK   RCRR2
              78    KM   ROUTE CRR2 TO CRR3
              79    KM   NATURAL WASH
              80    KM   TRAVEL LENGTH = 15850
              81    KM   SLOPE = 0.043
              82    KM   N = 0.04
              83    KM   HYDRAULIC RADIUS = 1.5
              84    KM   VELOCITY = 16.2
              85    RM       3   0.272    0.15
                    *
              86    KK     RR5
              87    BA   7.132
              88    PB    4.36
              89    LS       0    87.9
              90    UD   0.615
                    *
```



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          LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
              91    KK   R-RR5
              92    KM   ROUTE RR5 THROUGH RR3 TO CRR3
              93    KM   NATURAL WASH
              94    KM   TRAVEL LENGTH = 10700
              95    KM   SLOPE = 0.037
              96    KM   N = 0.04
              97    KM   HYDRAULIC RADIUS = 1.5
              98    KM   VELOCITY = 15
              99    RM       2   0.198    0.15
                    *
             100    KK     RR3
             101    BA  14.983
             102    PB    4.27
             103    LS       0      87
             104    UD   0.761
                    *
             105    KK    CRR3
             106    KM   COMBINE RCRR2, R-RR5, AND RR3
             107    HC       3
                    *
             108    KK   RCRR3
             109    KM   ROUTE CRR3 THROUGH RR10 TO CRR10
             110    KM   NATURAL WASH
             111    KM   TRAVEL LENGTH = 20700
             112    KM   SLOPE = 0.025
             113    KM   N = 0.04
             114    KM   HYDRAULIC RADIUS = 1.5
             115    KM   VELOCITY = 12.3
             116    RM       6   0.466    0.15
                    *
             117    KK    RR10
             118    BA   8.775
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 119          PB    3.88
 120          LS       0    86.1
 121          UD   0.882
              *

 122          KK   CRR10
 123          KM   COMBINE RCRR3 AND RR10
 124          HC       2
              *

 125          KK  RCRR10
 126          KM   ROUTE CRR10 THROUGH 104A TO C104A (RED ROCK DETENTION BASIN)
 127          KM   NATURAL WASH
 128          KM   TRAVEL LENGTH = 14500
 129          KM   SLOPE = 0.021
 130          KM   N = 0.04
 131          KM   HYDRAULIC RADIUS = 1.5
 132          KM   VELOCITY = 11.3
1                                   HEC-1 INPUT                                    PAGE  4

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 133          RM       4   0.356    0.15
              *

 134          KK   RR12A
 135          BA   5.821
 136          PB    3.98
 137          LS       0    87.6
 138          UD   0.728
              *

 139          KK R-RR12A
 140          KM   ROUTE RR12A THROUGH 104A TO C104A (RED ROCK DETENTION BASIN)
 141          KM   NATURAL WASH
 142          KM   TRAVEL LENGTH = 12000
 143          KM   SLOPE = 0.026
 144          KM   N = 0.04
 145          KM   HYDRAULIC RADIUS = 1.5
 146          KM   VELOCITY = 12.6
 147          RM       3   0.265    0.15
              *

 148          KK    104A
 149          BA   3.391
 150          PB    3.78
 151          LS       0    81.3
 152          UD   0.801
              *

 153          KK   C104A
 154          KM   COMBINE RCRR10, R-RR12A, AND 104A
 155          HC       3
              *

 156          KK     RD1
 157          BA   0.431
 158          PB    3.94
 159          LS       0    86.6
 160          UD   0.195
              *

 161          KK   R-RD1
 162          KM   ROUTE RD1 THROUGH RD2 TO CRD2
 163          KM   FUTURE CONCRETE CHANNEL
 164          RD    5100   0.061   0.015       0    TRAP      12       2
              *

 165          KK     RD2
 166          BA   0.473
 167          PB    3.85
 168          LS       0    91.2
 169          UD   0.167
              *
1                                   HEC-1 INPUT                                    PAGE  5

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 170          KK    CRD2
 171          KM   COMBINE R-RD1 AND RD2
 172          HC       2
              *

 173          KK   RCRD2
 174          KM   ROUTE CRD2 TO CRD3 (RED ROCK DETENTION BASIN)
 175          KM   FUTURE CONCRETE CHANNEL
 176          RD    4600    0.05   0.015       0    TRAP      12       2
              *

 177          KK     RD3
 178          BA    0.33
 179          PB    3.79
 180          LS       0    90.3
 181          UD   0.168
              *

 182          KK    CRD3
 183          KM   COMBINE RCRD2 AND RD3
 184          HC       2
              *

 185          KK   RR14A
 186          BA   4.602
 187          PB    3.88
 188          LS       0    87.3
 189          UD   0.725
              *

 190          KK R-RR14A
 191          KM   ROUTE RR14A THROUGH RD4 TO CRD4
 192          KM   FUTURE CONCRETE CHANNEL
 193          RD    5500   0.071   0.015       0    TRAP      12       2
              *

 194          KK     RD4
 195          BA   0.402
 196          PB    3.93
 197          LS       0    85.1
 198          UD   0.177
              *

 199          KK    CRD4
 200          KM   COMBINE R-RR14A AND RD4
 201          HC       2
              *

 202          KK   RCRD4
 203          KM   ROUTE CRD4 THROUGH RD5 TO CRD5
 204          KM   FUTURE CONCRETE CHANNEL
 205          RD    4550   0.067   0.015       0    TRAP      20       2
              *
1                                   HEC-1 INPUT                                    PAGE  6

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 206          KK     RD5
 207          BA    0.37
 208          PB    3.85
 209          LS       0    86.2
 210          UD   0.163
              *

 211          KK    CRD5
 212          KM   COMBINE RCRD4 AND RD5
 213          HC       2
              *

 214          KK   RCRD5
 215          KM   ROUTE CRD5 THROUGH RD6 TO CRD6 (RED ROCK DETENTION BASIN)
 216          KM   FUTURE CONCRETE CHANNEL
 217          RD    5600   0.047   0.015       0    TRAP      20       2
              *

 218          KK     RD6
 219          BA    0.25
 220          PB    3.79
 221          LS       0      90
 222          UD    0.16
              *

 223          KK    CRD6
 224          KM   COMBINE RCRD5 AND RD6
 225          HC       2
              *

 226          KK    INRR
 227          KM   COMBINE C104A, CRD3, AND CRD6 - TOTAL INFLOW TO RED ROCK DETENTION BASIN
 228          KO       1
 229          HC       3
              * ============================================================

 230          KK    RRDB
 231          KM   RED ROCK DETENTION BASIN
 232          KM   TAKEN FROM THE CORP MODELS FOR RED ROCK DETENTION BASIN
 233          KM   100YR COMPUTED PROBABILITY DETENTION DESIGN
 234          KM   FACILITY ID-MILE = RRWA 0716
 235          KM   STORAGE VOLUME = 2007 ACRE-FEET
 236          KM   OUTLET = 27"H x 27"W RCB ORIFICE
 237          KM   100-YR DISCHARGE = 182 CFS
 238          KM   SPILLWAY LENGTH = 600 FT
 239          KM   AUXILLARY OGEE SPILLWAY LENGTH = 323 FT
 240          KM   SPILLWAY CREST ELEVATION = 3212.5 FT NGVD
 241          KM   PMF DISCHARGE = 110000 CFS
 242          KM   TOP OF DAM ELEVATION = 3225 FT NGVD
 243          KO       1
 244          RS       1    STOR      -1
```

```
 245          SV       0       9     107     231     372     529     705     903    1125    1376
 246          SV    1659    1974    2007    2115    2331    2690    2933
 247          SQ       0      10      57      80      99     114     128     140     151     162
1                                          HEC-1 INPUT                                                  PAGE  7

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 248          SQ     171     181     182    8654   33270  110918  163477
 249          SE    3161    3162    3167    3172    3177    3182    3187    3192    3197    3202
 250          SE    3207    3212  3212.5    3214    3217    3222    3225
              * ============================================================

 251          KK *DOUTRR
 252          KM   DIVERT SPILLWAY OVERFLOW IN EXCESS OF CORPS DESIGN OUTFLOW
 253          DT*D-RROUT
 254          DI       0     182    3000    5000   10000
 255          DQ       0       0    2818    4818    9818
              *

 256          KK  ROUTRR
 257          KM   ROUTE OUTFLOW FROM RED ROCK DETENTION BASIN THROUGH R3A TO CR3A
 258          KM   FACILITY = RED ROCK CHANNEL
 259          KM   FACILITY # = RRWA 0714, 0709, 0701
 260          KM   LINING = RCP
 261          KM   LINING = RIPRAP CHNL 10'W X 6'D; 2:1SS
 262          RD    1500   0.008    0.04       0    TRAP      10       2
              *

 263          KK     R3A
 264          BA   0.186
 265          PB    3.68
 266          LS       0    84.3
 267          UD    0.11
              *

 268          KK    CR3A
 269          KM   COMBINE OUTFLOW FROM RED ROCK DETENTION BASIN WITH R3A
 270          HC       2
              *

 271          KK   RCR3A
 272          KM   ROUTE CR3A THROUGH UFR1 TO CUFR1
 273          KM   FACILITY = RED ROCK CHANNEL
 274          KM   FACILITY # = RRWA 0695, 0692, 0608, 0607
 275          KM   LINING = RCP
 276          RD    5045  0.0055   0.013       0    CIRC       8       0
              *

 277          ZZ
1
             SCHEMATIC DIAGRAM OF STREAM NETWORK
 INPUT
  LINE      (V) ROUTING          (--->) DIVERSION OR PUMP FLOW

   NO.      (.) CONNECTOR        (<---) RETURN OF DIVERTED OR PUMPED FLOW

    52        RR1
                .
                .
    65          .        RR2
                .          V
                .          V
    70          .       RRR2
                .          .
                .          .
    74       CRR2............
                V
                V
    77      RCRR2
                .
                .
    86          .        RR5
                .          V
                .          V
    91          .      R-RR5
                .          .
                .          .
   100          .          .        RR3
                .          .          .
                .          .          .
   105       CRR3........................
                V
                V
   108      RCRR3
                .
                .
   117          .       RR10
                .          .
                .          .
   122      CRR10............
                V
                V
   125     RCRR10
                .
                .
   134          .      RR12A
                .          V
                .          V
   139          .    R-RR12A
                .          .
                .          .
   148          .          .       104A
                .          .          .
                .          .          .
   153      C104A........................
                .
                .
   156          .        RD1
                .          V
                .          V
   161          .      R-RD1
                .          .
                .          .
   165          .          .        RD2
                .          .          .
                .          .          .
   170          .       CRD2............
                .          V
                .          V
   173          .      RCRD2
                .          .
                .          .
   177          .          .        RD3
                .          .          .
                .          .          .
   182          .       CRD3............
                .          .
                .          .
   185          .          .      RR14A
                .          .          V
                .          .          V
   190          .          .    R-RR14A
                .          .          .
                .          .          .
   194          .          .          .        RD4
                .          .          .          .
                .          .          .          .
   199          .          .       CRD4............
                .          .          V
                .          .          V
   202          .          .      RCRD4
                .          .          .
                .          .          .
   206          .          .          .        RD5
                .          .          .          .
                .          .          .          .
   211          .          .       CRD5............
                .          .          V
                .          .          V
   214          .          .      RCRD5
                .          .          .
                .          .          .
   218          .          .          .        RD6
                .          .          .          .
                .          .          .          .
   223          .          .       CRD6............
                .          .          .
                .          .          .
   226       INRR........................
                V
                V
   230       RRDB
                .
                .
   253          .------->*D-RROUT
   251     *DOUTRR
                V
                V
   256      ROUTRR
                .
                .
   263          .        R3A
                .          .
                .          .
   268       CR3A............
                V
                V
   271      RCR3A

 (***) RUNOFF ALSO COMPUTED AT THIS LOCATION
1*****************************************
 *                                       *
 *   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
 *              JUN   1998               *
 *            VERSION 4.1                *
 *                                       *
 *  RUN DATE   20MAY20  TIME  10:08:03   *
 *                                       *
 *****************************************
```

```
*************************************
*                                   *
*   U.S. ARMY CORPS OF ENGINEERS    *
*   HYDROLOGIC ENGINEERING CENTER   *
*         609 SECOND STREET         *
*      DAVIS, CALIFORNIA 95616      *
*          (916) 756-1104           *
*                                   *
*************************************
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RED ROCK TRAIL TO FY19-87
US FEDERAL HIGHWAY ADMINISTRATION
PN WXXY4000

HEC-1 MODEL TAKEN FROM CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT (CCRFCD)
2018 MASTER PLAN UPDATE
FLAMINGO / TROPICANA WASHES WATERSHED
RECOMMENDED DRAINAGE SYSTEM WITH ULTIMATE DEVELOPMENT
INPUT FILE = FLAM3A.DAT
INPUT FILE DATE = MAY 2020

PRECIPITATION VALUES CREATED FROM LOGRITHMIC TRENDLINE FOR 2-YEAR THROUGH
100-YEAR ISOPLUVIALS MAPS FROM NOAA ATLAS 2 THAT HAVE BEEN ADJUSTED PER
CCRFCD HYDRAULIC CRITERIA & DRAINAGE DESIGN MANUAL TABLE 501

DESIGN STORM = 200-YEAR, 6-HOUR STORM
STORM DISTRIBUTION = SDN5
STORM CENTERING = SERIES A: REGIONAL DETENTION BASIN FLOWS NOT DIVERTED OUT
MODELED BY JACOBS (DAVE BERGH, PE)

JR CARDS CONTAIN DARFS BASED ON THE FOLLOWING VALUES:

      AREA    DARF
      SQ.MI.
              SDN 3   SDN 4   SDN 5
      0 - 0.5 0.990
      0.5 - 1 0.975
      1 - 2   0.950
      2 - 3   0.925
      3 - 4   0.915
      4 - 5   0.908
      5 - 6   0.903
      6 - 7   0.895
      7 - 8   0.885
      8 - 9           0.875
      9 - 10          0.865
      10 - 11         0.857
      11 - 12         0.850
      12 - 16                 0.832
      16 - 20                 0.804
      20 - 30                 0.765
      30 - 40                 0.725
      40 - 50                 0.695
      50 - 100                0.640
      100 - 150               0.580
      150 - 200               0.530

 49 IO          OUTPUT CONTROL VARIABLES
                     IPRNT          5  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL          0.  HYDROGRAPH PLOT SCALE

    IT          HYDROGRAPH TIME DATA
                      NMIN          5  MINUTES IN COMPUTATION INTERVAL
                     IDATE      1    0  STARTING DATE
                     ITIME         0000  STARTING TIME
                        NQ          300  NUMBER OF HYDROGRAPH ORDINATES
                    NDDATE      2    0  ENDING DATE
                    NDTIME         0055  ENDING TIME
                     ICENT           19  CENTURY MARK

                  COMPUTATION INTERVAL     .08 HOURS
                      TOTAL TIME BASE   24.92 HOURS

          ENGLISH UNITS
               DRAINAGE AREA         SQUARE MILES
               PRECIPITATION DEPTH   INCHES
               LENGTH, ELEVATION     FEET
               FLOW                  CUBIC FEET PER SECOND
               STORAGE VOLUME        ACRE-FEET
               SURFACE AREA          ACRES
               TEMPERATURE           DEGREES FAHRENHEIT

    JP          MULTI-PLAN OPTION
                     NPLAN          1  NUMBER OF PLANS

    JR          MULTI-RATIO OPTION
                    RATIOS OF PRECIPITATION
                   .83      .80      .76      .73      .69      .64      .58      .53


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

          **************
          *            *
 226 KK   *      INRR  *
          *            *
          **************

 228 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          1  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL          0.  HYDROGRAPH PLOT SCALE

 229 HC          HYDROGRAPH COMBINATION
                      ICOMP          3  NUMBER OF HYDROGRAPHS TO COMBINE

                                                
```

1	0555	72	18833.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.					
1	0600	73	18212.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.					
1	0605	74	17532.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.					
1	0610	75	16752.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.					

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 29005.	4.92	12243.	3119.	3004.	3004.
		(INCHES) 2.080	2.119	2.119	2.119
		(AC-FT) 6071.	6186.	6186.	6186.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .80

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	*	1	0615	76	15197.	*	1	1230	151	0.	*	1	1845	226	0.				
1	0005	2	0.	*	1	0620	77	14218.	*	1	1235	152	0.	*	1	1850	227	0.				
1	0010	3	0.	*	1	0625	78	13143.	*	1	1240	153	0.	*	1	1855	228	0.				
1	0015	4	0.	*	1	0630	79	12005.	*	1	1245	154	0.	*	1	1900	229	0.				
1	0020	5	7.	*	1	0635	80	10843.	*	1	1250	155	0.	*	1	1905	230	0.				
1	0025	6	36.	*	1	0640	81	9699.	*	1	1255	156	0.	*	1	1910	231	0.				
1	0030	7	85.	*	1	0645	82	8607.	*	1	1300	157	0.	*	1	1915	232	0.				
1	0035	8	123.	*	1	0650	83	7593.	*	1	1305	158	0.	*	1	1920	233	0.				
1	0040	9	139.	*	1	0655	84	6669.	*	1	1310	159	0.	*	1	1925	234	0.				
1	0045	10	150.	*	1	0700	85	5841.	*	1	1315	160	0.	*	1	1930	235	0.				
1	0050	11	165.	*	1	0705	86	5103.	*	1	1320	161	0.	*	1	1935	236	0.				
1	0055	12	193.	*	1	0710	87	4448.	*	1	1325	162	0.	*	1	1940	237	0.				
1	0100	13	232.	*	1	0715	88	3866.	*	1	1330	163	0.	*	1	1945	238	0.				
1	0105	14	282.	*	1	0720	89	3351.	*	1	1335	164	0.	*	1	1950	239	0.				
1	0110	15	347.	*	1	0725	90	2893.	*	1	1340	165	0.	*	1	1955	240	0.				
1	0115	16	432.	*	1	0730	91	2486.	*	1	1345	166	0.	*	1	2000	241	0.				
1	0120	17	539.	*	1	0735	92	2126.	*	1	1350	167	0.	*	1	2005	242	0.				
1	0125	18	670.	*	1	0740	93	1808.	*	1	1355	168	0.	*	1	2010	243	0.				
1	0130	19	828.	*	1	0745	94	1529.	*	1	1400	169	0.	*	1	2015	244	0.				
1	0135	20	1010.	*	1	0750	95	1287.	*	1	1405	170	0.	*	1	2020	245	0.				
1	0140	21	1206.	*	1	0755	96	1078.	*	1	1410	171	0.	*	1	2025	246	0.				
1	0145	22	1406.	*	1	0800	97	899.	*	1	1415	172	0.	*	1	2030	247	0.				
1	0150	23	1601.	*	1	0805	98	748.	*	1	1420	173	0.	*	1	2035	248	0.				
1	0155	24	1796.	*	1	0810	99	621.	*	1	1425	174	0.	*	1	2040	249	0.				
1	0200	25	2007.	*	1	0815	100	515.	*	1	1430	175	0.	*	1	2045	250	0.				
1	0205	26	2224.	*	1	0820	101	426.	*	1	1435	176	0.	*	1	2050	251	0.				
1	0210	27	2423.	*	1	0825	102	352.	*	1	1440	177	0.	*	1	2055	252	0.				
1	0215	28	2593.	*	1	0830	103	290.	*	1	1445	178	0.	*	1	2100	253	0.				
1	0220	29	2740.	*	1	0835	104	239.	*	1	1450	179	0.	*	1	2105	254	0.				
1	0225	30	2890.	*	1	0840	105	197.	*	1	1455	180	0.	*	1	2110	255	0.				
1	0230	31	3067.	*	1	0845	106	162.	*	1	1500	181	0.	*	1	2115	256	0.				
1	0235	32	3269.	*	1	0850	107	133.	*	1	1505	182	0.	*	1	2120	257	0.				
1	0240	33	3482.	*	1	0855	108	109.	*	1	1510	183	0.	*	1	2125	258	0.				
1	0245	34	3710.	*	1	0900	109	90.	*	1	1515	184	0.	*	1	2130	259	0.				
1	0250	35	3965.	*	1	0905	110	73.	*	1	1520	185	0.	*	1	2135	260	0.				
1	0255	36	4255.	*	1	0910	111	59.	*	1	1525	186	0.	*	1	2140	261	0.				
1	0300	37	4582.	*	1	0915	112	47.	*	1	1530	187	0.	*	1	2145	262	0.				
1	0305	38	4935.	*	1	0920	113	37.	*	1	1535	188	0.	*	1	2150	263	0.				
1	0310	39	5320.	*	1	0925	114	29.	*	1	1540	189	0.	*	1	2155	264	0.				
1	0315	40	5794.	*	1	0930	115	22.	*	1	1545	190	0.	*	1	2200	265	0.				
1	0320	41	6340.	*	1	0935	116	17.	*	1	1550	191	0.	*	1	2205	266	0.				
1	0325	42	6990.	*	1	0940	117	13.	*	1	1555	192	0.	*	1	2210	267	0.				
1	0330	43	7879.	*	1	0945	118	10.	*	1	1600	193	0.	*	1	2215	268	0.				
1	0335	44	8835.	*	1	0950	119	8.	*	1	1605	194	0.	*	1	2220	269	0.				
1	0340	45	9449.	*	1	0955	120	6.	*	1	1610	195	0.	*	1	2225	270	0.				
1	0345	46	9931.	*	1	1000	121	5.	*	1	1615	196	0.	*	1	2230	271	0.				
1	0350	47	10699.	*	1	1005	122	4.	*	1	1620	197	0.	*	1	2235	272	0.				
1	0355	48	11822.	*	1	1010	123	3.	*	1	1625	198	0.	*	1	2240	273	0.				
1	0400	49	13086.	*	1	1015	124	2.	*	1	1630	199	0.	*	1	2245	274	0.				
1	0405	50	14398.	*	1	1020	125	1.	*	1	1635	200	0.	*	1	2250	275	0.				
1	0410	51	15814.	*	1	1025	126	1.	*	1	1640	201	0.	*	1	2255	276	0.				
1	0415	52	17354.	*	1	1030	127	1.	*	1	1645	202	0.	*	1	2300	277	0.				
1	0420	53	18980.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.				
1	0425	54	20630.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.				
1	0430	55	22281.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.				
1	0435	56	23893.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.				
1	0440	57	25356.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.				
1	0445	58	26511.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.				
1	0450	59	27306.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.				
1	0455	60	27675.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.				
1	0500	61	27514.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.				
1	0505	62	26923.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.				
1	0510	63	26087.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.				
1	0515	64	25103.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.				
1	0520	65	24028.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.				
1	0525	66	22931.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.				

1	0530	67	21875.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.					
1	0535	68	20901.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.					
1	0540	69	20033.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.					
1	0545	70	19281.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.					
1	0550	71	18633.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.					
1	0555	72	18043.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.					
1	0600	73	17452.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.					
1	0605	74	16805.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.					
1	0610	75	16060.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.					

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 27675.	4.92	11652.	2966.	2857.	2857.
		(INCHES) 1.979	2.016	2.016	2.016
		(AC-FT) 5778.	5884.	5884.	5884.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .76

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	*	1	0615	76	14289.	*	1	1230	151	0.	*	1	1845	226	0.				
1	0005	2	0.	*	1	0620	77	13371.	*	1	1235	152	0.	*	1	1850	227	0.				
1	0010	3	0.	*	1	0625	78	12363.	*	1	1240	153	0.	*	1	1855	228	0.				
1	0015	4	0.	*	1	0630	79	11295.	*	1	1245	154	0.	*	1	1900	229	0.				
1	0020	5	5.	*	1	0635	80	10203.	*	1	1250	155	0.	*	1	1905	230	0.				
1	0025	6	28.	*	1	0640	81	9128.	*	1	1255	156	0.	*	1	1910	231	0.				
1	0030	7	70.	*	1	0645	82	8101.	*	1	1300	157	0.	*	1	1915	232	0.				
1	0035	8	101.	*	1	0650	83	7147.	*	1	1305	158	0.	*	1	1920	233	0.				
1	0040	9	114.	*	1	0655	84	6279.	*	1	1310	159	0.	*	1	1925	234	0.				
1	0045	10	123.	*	1	0700	85	5499.	*	1	1315	160	0.	*	1	1930	235	0.				
1	0050	11	136.	*	1	0705	86	4805.	*	1	1320	161	0.	*	1	1935	236	0.				
1	0055	12	157.	*	1	0710	87	4188.	*	1	1325	162	0.	*	1	1940	237	0.				
1	0100	13	188.	*	1	0715	88	3641.	*	1	1330	163	0.	*	1	1945	238	0.				
1	0105	14	228.	*	1	0720	89	3156.	*	1	1335	164	0.	*	1	1950	239	0.				
1	0110	15	281.	*	1	0725	90	2725.	*	1	1340	165	0.	*	1	1955	240	0.				
1	0115	16	351.	*	1	0730	91	2342.	*	1	1345	166	0.	*	1	2000	241	0.				
1	0120	17	439.	*	1	0735	92	2003.	*	1	1350	167	0.	*	1	2005	242	0.				
1	0125	18	549.	*	1	0740	93	1703.	*	1	1355	168	0.	*	1	2010	243	0.				
1	0130	19	682.	*	1	0745	94	1441.	*	1	1400	169	0.	*	1	2015	244	0.				
1	0135	20	838.	*	1	0750	95	1212.	*	1	1405	170	0.	*	1	2020	245	0.				
1	0140	21	1006.	*	1	0755	96	1015.	*	1	1410	171	0.	*	1	2025	246	0.				
1	0145	22	1179.	*	1	0800	97	848.	*	1	1415	172	0.	*	1	2030	247	0.				
1	0150	23	1350.	*	1	0805	98	705.	*	1	1420	173	0.	*	1	2035	248	0.				
1	0155	24	1523.	*	1	0810	99	585.	*	1	1425	174	0.	*	1	2040	249	0.				
1	0200	25	1712.	*	1	0815	100	485.	*	1	1430	175	0.	*	1	2045	250	0.				
1	0205	26	1909.	*	1	0820	101	401.	*	1	1435	176	0.	*	1	2050	251	0.				
1	0210	27	2093.	*	1	0825	102	332.	*	1	1440	177	0.	*	1	2055	252	0.				
1	0215	28	2251.	*	1	0830	103	274.	*	1	1445	178	0.	*	1	2100	253	0.				
1	0220	29	2392.	*	1	0835	104	226.	*	1	1450	179	0.	*	1	2105	254	0.				
1	0225	30	2534.	*	1	0840	105	186.	*	1	1455	180	0.	*	1	2110	255	0.				
1	0230	31	2701.	*	1	0845	106	153.	*	1	1500	181	0.	*	1	2115	256	0.				
1	0235	32	2891.	*	1	0850	107	126.	*	1	1505	182	0.	*	1	2120	257	0.				
1	0240	33	3093.	*	1	0855	108	103.	*	1	1510	183	0.	*	1	2125	258	0.				
1	0245	34	3307.	*	1	0900	109	84.	*	1	1515	184	0.	*	1	2130	259	0.				
1	0250	35	3546.	*	1	0905	110	69.	*	1	1520	185	0.	*	1	2135	260	0.				
1	0255	36	3817.	*	1	0910	111	55.	*	1	1525	186	0.	*	1	2140	261	0.				
1	0300	37	4121.	*	1	0915	112	44.	*	1	1530	187	0.	*	1	2145	262	0.				
1	0305	38	4450.	*	1	0920	113	35.	*	1	1535	188	0.	*	1	2150	263	0.				
1	0310	39	4810.	*	1	0925	114	27.	*	1	1540	189	0.	*	1	2155	264	0.				
1	0315	40	5253.	*	1	0930	115	21.	*	1	1545	190	0.	*	1	2200	265	0.				
1	0320	41	5765.	*	1	0935	116	16.	*	1	1550	191	0.	*	1	2205	266	0.				
1	0325	42	6374.	*	1	0940	117	13.	*	1	1555	192	0.	*	1	2210	267	0.				
1	0330	43	7207.	*	1	0945	118	10.	*	1	1600	193	0.	*	1	2215	268	0.				
1	0335	44	8107.	*	1	0950	119	7.	*	1	1605	194	0.	*	1	2220	269	0.				
1	0340	45	8690.	*	1	0955	120	6.	*	1	1610	195	0.	*	1	2225	270	0.				
1	0345	46	9135.	*	1	1000	121	4.	*	1	1615	196	0.	*	1	2230	271	0.				
1	0350	47	9851.	*	1	1005	122	3.	*	1	1620	197	0.	*	1	2235	272	0.				
1	0355	48	10903.	*	1	1010	123	3.	*	1	1625	198	0.	*	1	2240	273	0.				
1	0400	49	12089.	*	1	1015	124	2.	*	1	1630	199	0.	*	1	2245	274	0.				
1	0405	50	13315.	*	1	1020	125	1.	*	1	1635	200	0.	*	1	2250	275	0.				
1	0410	51	14639.	*	1	1025	126	1.	*	1	1640	201	0.	*	1	2255	276	0.				
1	0415	52	16083.	*	1	1030	127	1.	*	1	1645	202	0.	*	1	2300	277	0.				
1	0420	53	17610.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.				
1	0425	54	19160.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.				
1	0430	55	20710.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.				
1	0435	56	22226.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.				
1	0440	57	23607.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.				
1	0445	58	24703.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.				
1	0450	59	25463.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.				
1	0455	60	25823.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.				
1	0500	61	25687.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.				

1	0505	62	25151.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.					
1	0510	63	24384.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.					
1	0515	64	23477.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.					
1	0520	65	22482.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.					
1	0525	66	21467.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.					
1	0530	67	20492.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.					
1	0535	68	19590.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.					
1	0540	69	18785.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.					
1	0545	70	18088.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.					
1	0550	71	17489.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.					
1	0555	72	16942.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.					
1	0600	73	16393.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.					
1	0605	74	15792.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.					
1	0610	75	15096.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.					
				*					*					*									

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
	(CFS)				
+ 25823.	4.92	10835.	2756.	2655.	2655.
	(INCHES)	1.841	1.873	1.873	1.873
	(AC-FT)	5373.	5467.	5467.	5467.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .73

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	*	1	0615	76	13357.	*	1	1230	151	0.	*	1	1845	226	0.				
1	0005	2	0.	*	1	0620	77	12503.	*	1	1235	152	0.	*	1	1850	227	0.				
1	0010	3	0.	*	1	0625	78	11563.	*	1	1240	153	0.	*	1	1855	228	0.				
1	0015	4	0.	*	1	0630	79	10565.	*	1	1245	154	0.	*	1	1900	229	0.				
1	0020	5	3.	*	1	0635	80	9546.	*	1	1250	155	0.	*	1	1905	230	0.				
1	0025	6	21.	*	1	0640	81	8541.	*	1	1255	156	0.	*	1	1910	231	0.				
1	0030	7	56.	*	1	0645	82	7582.	*	1	1300	157	0.	*	1	1915	232	0.				
1	0035	8	81.	*	1	0650	83	6690.	*	1	1305	158	0.	*	1	1920	233	0.				
1	0040	9	92.	*	1	0655	84	5878.	*	1	1310	159	0.	*	1	1925	234	0.				
1	0045	10	99.	*	1	0700	85	5148.	*	1	1315	160	0.	*	1	1930	235	0.				
1	0050	11	108.	*	1	0705	86	4499.	*	1	1320	161	0.	*	1	1935	236	0.				
1	0055	12	125.	*	1	0710	87	3922.	*	1	1325	162	0.	*	1	1940	237	0.				
1	0100	13	149.	*	1	0715	88	3410.	*	1	1330	163	0.	*	1	1945	238	0.				
1	0105	14	179.	*	1	0720	89	2956.	*	1	1335	164	0.	*	1	1950	239	0.				
1	0110	15	220.	*	1	0725	90	2552.	*	1	1340	165	0.	*	1	1955	240	0.				
1	0115	16	276.	*	1	0730	91	2194.	*	1	1345	166	0.	*	1	2000	241	0.				
1	0120	17	347.	*	1	0735	92	1876.	*	1	1350	167	0.	*	1	2005	242	0.				
1	0125	18	437.	*	1	0740	93	1596.	*	1	1355	168	0.	*	1	2010	243	0.				
1	0130	19	547.	*	1	0745	94	1350.	*	1	1400	169	0.	*	1	2015	244	0.				
1	0135	20	676.	*	1	0750	95	1136.	*	1	1405	170	0.	*	1	2020	245	0.				
1	0140	21	818.	*	1	0755	96	952.	*	1	1410	171	0.	*	1	2025	246	0.				
1	0145	22	965.	*	1	0800	97	794.	*	1	1415	172	0.	*	1	2030	247	0.				
1	0150	23	1112.	*	1	0805	98	661.	*	1	1420	173	0.	*	1	2035	248	0.				
1	0155	24	1262.	*	1	0810	99	549.	*	1	1425	174	0.	*	1	2040	249	0.				
1	0200	25	1429.	*	1	0815	100	455.	*	1	1430	175	0.	*	1	2045	250	0.				
1	0205	26	1606.	*	1	0820	101	376.	*	1	1435	176	0.	*	1	2050	251	0.				
1	0210	27	1773.	*	1	0825	102	311.	*	1	1440	177	0.	*	1	2055	252	0.				
1	0215	28	1920.	*	1	0830	103	257.	*	1	1445	178	0.	*	1	2100	253	0.				
1	0220	29	2051.	*	1	0835	104	212.	*	1	1450	179	0.	*	1	2105	254	0.				
1	0225	30	2185.	*	1	0840	105	174.	*	1	1455	180	0.	*	1	2110	255	0.				
1	0230	31	2342.	*	1	0845	106	143.	*	1	1500	181	0.	*	1	2115	256	0.				
1	0235	32	2519.	*	1	0850	107	118.	*	1	1505	182	0.	*	1	2120	257	0.				
1	0240	33	2707.	*	1	0855	108	97.	*	1	1510	183	0.	*	1	2125	258	0.				
1	0245	34	2906.	*	1	0900	109	79.	*	1	1515	184	0.	*	1	2130	259	0.				
1	0250	35	3128.	*	1	0905	110	64.	*	1	1520	185	0.	*	1	2135	260	0.				
1	0255	36	3379.	*	1	0910	111	52.	*	1	1525	186	0.	*	1	2140	261	0.				
1	0300	37	3660.	*	1	0915	112	42.	*	1	1530	187	0.	*	1	2145	262	0.				
1	0305	38	3966.	*	1	0920	113	33.	*	1	1535	188	0.	*	1	2150	263	0.				
1	0310	39	4301.	*	1	0925	114	26.	*	1	1540	189	0.	*	1	2155	264	0.				
1	0315	40	4710.	*	1	0930	115	20.	*	1	1545	190	0.	*	1	2200	265	0.				
1	0320	41	5184.	*	1	0935	116	15.	*	1	1550	191	0.	*	1	2205	266	0.				
1	0325	42	5751.	*	1	0940	117	12.	*	1	1555	192	0.	*	1	2210	267	0.				
1	0330	43	6528.	*	1	0945	118	9.	*	1	1600	193	0.	*	1	2215	268	0.				
1	0335	44	7363.	*	1	0950	119	7.	*	1	1605	194	0.	*	1	2220	269	0.				
1	0340	45	7908.	*	1	0955	120	5.	*	1	1610	195	0.	*	1	2225	270	0.				
1	0345	46	8329.	*	1	1000	121	4.	*	1	1615	196	0.	*	1	2230	271	0.				
1	0350	47	8994.	*	1	1005	122	3.	*	1	1620	197	0.	*	1	2235	272	0.				
1	0355	48	9969.	*	1	1010	123	2.	*	1	1625	198	0.	*	1	2240	273	0.				
1	0400	49	11071.	*	1	1015	124	2.	*	1	1630	199	0.	*	1	2245	274	0.				
1	0405	50	12214.	*	1	1020	125	1.	*	1	1635	200	0.	*	1	2250	275	0.				
1	0410	51	13444.	*	1	1025	126	1.	*	1	1640	201	0.	*	1	2255	276	0.				
1	0415	52	14788.	*	1	1030	127	1.	*	1	1645	202	0.	*	1	2300	277	0.				
1	0420	53	16212.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.				
1	0425	54	17659.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.				
1	0430	55	19109.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.				
1	0435	56	20529.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.				

1	0440	57	21826.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.					
1	0445	58	22859.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.					
1	0450	59	23581.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.					
1	0455	60	23934.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.					
1	0500	61	23826.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.					
1	0505	62	23342.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.					
1	0510	63	22644.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.					
1	0515	64	21815.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.					
1	0520	65	20904.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.					
1	0525	66	19972.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.					
1	0530	67	19075.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.					
1	0535	68	18245.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.					
1	0540	69	17506.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.					
1	0545	70	16866.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.					
1	0550	71	16316.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.					
1	0555	72	15813.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.					
1	0600	73	15308.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.					
1	0605	74	14751.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.					
1	0610	75	14107.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.					
				*					*					*									

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
	(CFS)				
+ 23934.	4.92	10006.	2543.	2449.	2449.
	(INCHES)	1.700	1.728	1.728	1.728
	(AC-FT)	4962.	5043.	5043.	5043.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .69

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	*	1	0615	76	12657.	*	1	1230	151	0.	*	1	1845	226	0.				
1	0005	2	0.	*	1	0620	77	11851.	*	1	1235	152	0.	*	1	1850	227	0.				
1	0010	3	0.	*	1	0625	78	10962.	*	1	1240	153	0.	*	1	1855	228	0.				
1	0015	4	0.	*	1	0630	79	10018.	*	1	1245	154	0.	*	1	1900	229	0.				
1	0020	5	2.	*	1	0635	80	9053.	*	1	1250	155	0.	*	1	1905	230	0.				
1	0025	6	16.	*	1	0640	81	8101.	*	1	1255	156	0.	*	1	1910	231	0.				
1	0030	7	46.	*	1	0645	82	7192.	*	1	1300	157	0.	*	1	1915	232	0.				
1	0035	8	69.	*	1	0650	83	6346.	*	1	1305	158	0.	*	1	1920	233	0.				
1	0040	9	78.	*	1	0655	84	5576.	*	1	1310	159	0.	*	1	1925	234	0.				
1	0045	10	83.	*	1	0700	85	4885.	*	1	1315	160	0.	*	1	1930	235	0.				
1	0050	11	90.	*	1	0705	86	4270.	*	1	1320	161	0.	*	1	1935	236	0.				
1	0055	12	103.	*	1	0710	87	3723.	*	1	1325	162	0.	*	1	1940	237	0.				
1	0100	13	122.	*	1	0715	88	3237.	*	1	1330	163	0.	*	1	1945	238	0.				
1	0105	14	147.	*	1	0720	89	2806.	*	1	1335	164	0.	*	1	1950	239	0.				
1	0110	15	180.	*	1	0725	90	2423.	*	1	1340	165	0.	*	1	1955	240	0.				
1	0115	16	226.	*	1	0730	91	2083.	*	1	1345	166	0.	*	1	2000	241	0.				
1	0120	17	286.	*	1	0735	92	1781.	*	1	1350	167	0.	*	1	2005	242	0.				
1	0125	18	362.	*	1	0740	93	1515.	*	1	1355	168	0.	*	1	2010	243	0.				
1	0130	19	455.	*	1	0745	94	1282.	*	1	1400	169	0.	*	1	2015	244	0.				
1	0135	20	566.	*	1	0750	95	1079.	*	1	1405	170	0.	*	1	2020	245	0.				
1	0140	21	689.	*	1	0755	96	904.	*	1	1410	171	0.	*	1	2025	246	0.				
1	0145	22	817.	*	1	0800	97	754.	*	1	1415	172	0.	*	1	2030	247	0.				
1	0150	23	946.	*	1	0805	98	628.	*	1	1420	173	0.	*	1	2035	248	0.				
1	0155	24	1080.	*	1	0810	99	521.	*	1	1425	174	0.	*	1	2040	249	0.				
1	0200	25	1231.	*	1	0815	100	432.	*	1	1430	175	0.	*	1	2045	250	0.				
1	0205	26	1392.	*	1	0820	101	357.	*	1	1435	176	0.	*	1	2050	251	0.				
1	0210	27	1547.	*	1	0825	102	295.	*	1	1440	177	0.	*	1	2055	252	0.				
1	0215	28	1684.	*	1	0830	103	244.	*	1	1445	178	0.	*	1	2100	253	0.				
1	0220	29	1808.	*	1	0835	104	201.	*	1	1450	179	0.	*	1	2105	254	0.				
1	0225	30	1935.	*	1	0840	105	166.	*	1	1455	180	0.	*	1	2110	255	0.				
1	0230	31	2083.	*	1	0845	106	136.	*	1	1500	181	0.	*	1	2115	256	0.				
1	0235	32	2250.	*	1	0850	107	112.	*	1	1505	182	0.	*	1	2120	257	0.				
1	0240	33	2427.	*	1	0855	108	92.	*	1	1510	183	0.	*	1	2125	258	0.				
1	0245	34	2616.	*	1	0900	109	75.	*	1	1515	184	0.	*	1	2130	259	0.				
1	0250	35	2825.	*	1	0905	110	61.	*	1	1520	185	0.	*	1	2135	260	0.				
1	0255	36	3060.	*	1	0910	111	49.	*	1	1525	186	0.	*	1	2140	261	0.				
1	0300	37	3323.	*	1	0915	112	39.	*	1	1530	187	0.	*	1	2145	262	0.				
1	0305	38	3611.	*	1	0920	113	31.	*	1	1535	188	0.	*	1	2150	263	0.				
1	0310	39	3926.	*	1	0925	114	24.	*	1	1540	189	0.	*	1	2155	264	0.				
1	0315	40	4311.	*	1	0930	115	19.	*	1	1545	190	0.	*	1	2200	265	0.				
1	0320	41	4759.	*	1	0935	116	15.	*	1	1550	191	0.	*	1	2205	266	0.				
1	0325	42	5292.	*	1	0940	117	11.	*	1	1555	192	0.	*	1	2210	267	0.				
1	0330	43	6022.	*	1	0945	118	9.	*	1	1600	193	0.	*	1	2215	268	0.				
1	0335	44	6819.	*	1	0950	119	7.	*	1	1605	194	0.	*	1	2220	269	0.				
1	0340	45	7344.	*	1	0955	120	5.	*	1	1610	195	0.	*	1	2225	270	0.				
1	0345	46	7736.	*	1	1000	121	4.	*	1	1615	196	0.	*	1	2230	271	0.				
1	0350	47	8357.	*	1	1005	122	3.	*	1	1620	197	0.	*	1	2235	272	0.				
1	0355	48	9279.	*	1	1010	123	2.	*	1	1625	198	0.	*	1	2240	273	0.				
1	0400	49	10318.	*	1	1015	124	2.	*	1	1630	199	0.	*	1	2245	274	0.				
1	0405	50	11395.	*	1	1020	125	1.	*	1	1635	200	0.	*	1	2250	275	0.				
1	0410	51	12558.	*	1	1025	126	1.	*	1	1640	201	0.	*	1	2255	276	0.				

1	0415	52	13828.	*	1	1030	127	1.	*	1	1645	202	0.	*	1	2300	277	0.					
1	0420	53	15172.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.					
1	0425	54	16541.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.					
1	0430	55	17915.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.					
1	0435	56	19262.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.					
1	0440	57	20495.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.					
1	0445	58	21482.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.					
1	0450	59	22177.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.					
1	0455	60	22522.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.					
1	0500	61	22433.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.					
1	0505	62	21990.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.					
1	0510	63	21343.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.					
1	0515	64	20572.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.					
1	0520	65	19722.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.					
1	0525	66	18852.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.					
1	0530	67	18014.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.					
1	0535	68	17238.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.					
1	0540	69	16548.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.					
1	0545	70	15950.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.					
1	0550	71	15436.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.					
1	0555	72	14967.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.					
1	0600	73	14494.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.					
1	0605	74	13971.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.					
1	0610	75	13365.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.					
				*					*					*									

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 22522.	4.92	9390.	2384.	2296.	2296.
		(INCHES) 1.595	1.620	1.620	1.620
		(AC-FT) 4656.	4729.	4729.	4729.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .64

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	*	1	0615	76	11377.	*	1	1230	151	0.	*	1	1845	226	0.					
1	0005	2	0.	*	1	0620	77	10657.	*	1	1235	152	0.	*	1	1850	227	0.					
1	0010	3	0.	*	1	0625	78	9862.	*	1	1240	153	0.	*	1	1855	228	0.					
1	0015	4	0.	*	1	0630	79	9015.	*	1	1245	154	0.	*	1	1900	229	0.					
1	0020	5	1.	*	1	0635	80	8150.	*	1	1250	155	0.	*	1	1905	230	0.					
1	0025	6	10.	*	1	0640	81	7295.	*	1	1255	156	0.	*	1	1910	231	0.					
1	0030	7	30.	*	1	0645	82	6477.	*	1	1300	157	0.	*	1	1915	232	0.					
1	0035	8	48.	*	1	0650	83	5717.	*	1	1305	158	0.	*	1	1920	233	0.					
1	0040	9	55.	*	1	0655	84	5025.	*	1	1310	159	0.	*	1	1925	234	0.					
1	0045	10	58.	*	1	0700	85	4403.	*	1	1315	160	0.	*	1	1930	235	0.					
1	0050	11	62.	*	1	0705	86	3849.	*	1	1320	161	0.	*	1	1935	236	0.					
1	0055	12	70.	*	1	0710	87	3356.	*	1	1325	162	0.	*	1	1940	237	0.					
1	0100	13	81.	*	1	0715	88	2919.	*	1	1330	163	0.	*	1	1945	238	0.					
1	0105	14	96.	*	1	0720	89	2531.	*	1	1335	164	0.	*	1	1950	239	0.					
1	0110	15	118.	*	1	0725	90	2185.	*	1	1340	165	0.	*	1	1955	240	0.					
1	0115	16	149.	*	1	0730	91	1879.	*	1	1345	166	0.	*	1	2000	241	0.					
1	0120	17	189.	*	1	0735	92	1607.	*	1	1350	167	0.	*	1	2005	242	0.					
1	0125	18	242.	*	1	0740	93	1367.	*	1	1355	168	0.	*	1	2010	243	0.					
1	0130	19	309.	*	1	0745	94	1157.	*	1	1400	169	0.	*	1	2015	244	0.					
1	0135	20	390.	*	1	0750	95	973.	*	1	1405	170	0.	*	1	2020	245	0.					
1	0140	21	481.	*	1	0755	96	816.	*	1	1410	171	0.	*	1	2025	246	0.					
1	0145	22	577.	*	1	0800	97	681.	*	1	1415	172	0.	*	1	2030	247	0.					
1	0150	23	676.	*	1	0805	98	567.	*	1	1420	173	0.	*	1	2035	248	0.					
1	0155	24	780.	*	1	0810	99	471.	*	1	1425	174	0.	*	1	2040	249	0.					
1	0200	25	900.	*	1	0815	100	390.	*	1	1430	175	0.	*	1	2045	250	0.					
1	0205	26	1033.	*	1	0820	101	323.	*	1	1435	176	0.	*	1	2050	251	0.					
1	0210	27	1163.	*	1	0825	102	267.	*	1	1440	177	0.	*	1	2055	252	0.					
1	0215	28	1282.	*	1	0830	103	220.	*	1	1445	178	0.	*	1	2100	253	0.					
1	0220	29	1391.	*	1	0835	104	182.	*	1	1450	179	0.	*	1	2105	254	0.					
1	0225	30	1504.	*	1	0840	105	150.	*	1	1455	180	0.	*	1	2110	255	0.					
1	0230	31	1635.	*	1	0845	106	123.	*	1	1500	181	0.	*	1	2115	256	0.					
1	0235	32	1783.	*	1	0850	107	101.	*	1	1505	182	0.	*	1	2120	257	0.					
1	0240	33	1940.	*	1	0855	108	83.	*	1	1510	183	0.	*	1	2125	258	0.					
1	0245	34	2107.	*	1	0900	109	68.	*	1	1515	184	0.	*	1	2130	259	0.					
1	0250	35	2292.	*	1	0905	110	55.	*	1	1520	185	0.	*	1	2135	260	0.					
1	0255	36	2499.	*	1	0910	111	45.	*	1	1525	186	0.	*	1	2140	261	0.					
1	0300	37	2731.	*	1	0915	112	36.	*	1	1530	187	0.	*	1	2145	262	0.					
1	0305	38	2984.	*	1	0920	113	28.	*	1	1535	188	0.	*	1	2150	263	0.					
1	0310	39	3263.	*	1	0925	114	22.	*	1	1540	189	0.	*	1	2155	264	0.					
1	0315	40	3603.	*	1	0930	115	17.	*	1	1545	190	0.	*	1	2200	265	0.					
1	0320	41	4000.	*	1	0935	116	13.	*	1	1550	191	0.	*	1	2205	266	0.					
1	0325	42	4473.	*	1	0940	117	10.	*	1	1555	192	0.	*	1	2210	267	0.					
1	0330	43	5120.	*	1	0945	118	8.	*	1	1600	193	0.	*	1	2215	268	0.					
1	0335	44	5833.	*	1	0950	119	6.	*	1	1605	194	0.	*	1	2220	269	0.					
1	0340	45	6310.	*	1	0955	120	5.	*	1	1610	195	0.	*	1	2225	270	0.					
1	0345	46	6664.	*	1	1000	121	4.	*	1	1615	196	0.	*	1	2230	271	0.					

1	0350	47	7214.	*	1	1005	122	3.	*	1	1620	197	0.	*	1	2235	272	0.					
1	0355	48	8029.	*	1	1010	123	2.	*	1	1625	198	0.	*	1	2240	273	0.					
1	0400	49	8958.	*	1	1015	124	2.	*	1	1630	199	0.	*	1	2245	274	0.					
1	0405	50	9920.	*	1	1020	125	1.	*	1	1635	200	0.	*	1	2250	275	0.					
1	0410	51	10956.	*	1	1025	126	1.	*	1	1640	201	0.	*	1	2255	276	0.					
1	0415	52	12089.	*	1	1030	127	1.	*	1	1645	202	0.	*	1	2300	277	0.					
1	0420	53	13289.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.					
1	0425	54	14514.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.					
1	0430	55	15747.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.					
1	0435	56	16960.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.					
1	0440	57	18075.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.					
1	0445	58	18977.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.					
1	0450	59	19619.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.					
1	0455	60	19953.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.					
1	0500	61	19901.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.					
1	0505	62	19527.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.					
1	0510	63	18968.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.					
1	0515	64	18301.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.					
1	0520	65	17563.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.					
1	0525	66	16805.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.					
1	0530	67	16074.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.					
1	0535	68	15397.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.					
1	0540	69	14795.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.					
1	0545	70	14274.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.					
1	0550	71	13827.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.					
1	0555	72	13418.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.					
1	0600	73	13004.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.					
1	0605	74	12544.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.					
1	0610	75	12006.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.					
									*					*									

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 19953.	4.92	8275.	2098.	2021.	2021.
		(INCHES) 1.406	1.425	1.425	1.425
		(AC-FT) 4103.	4161.	4161.	4161.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .58

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	*	1	0615	76	9982.	*	1	1230	151	0.	*	1	1845	226	0.					
1	0005	2	0.	*	1	0620	77	9356.	*	1	1235	152	0.	*	1	1850	227	0.					
1	0010	3	0.	*	1	0625	78	8662.	*	1	1240	153	0.	*	1	1855	228	0.					
1	0015	4	0.	*	1	0630	79	7923.	*	1	1245	154	0.	*	1	1900	229	0.					
1	0020	5	0.	*	1	0635	80	7165.	*	1	1250	155	0.	*	1	1905	230	0.					
1	0025	6	5.	*	1	0640	81	6415.	*	1	1255	156	0.	*	1	1910	231	0.					
1	0030	7	17.	*	1	0645	82	5698.	*	1	1300	157	0.	*	1	1915	232	0.					
1	0035	8	30.	*	1	0650	83	5031.	*	1	1305	158	0.	*	1	1920	233	0.					
1	0040	9	36.	*	1	0655	84	4423.	*	1	1310	159	0.	*	1	1925	234	0.					
1	0045	10	37.	*	1	0700	85	3876.	*	1	1315	160	0.	*	1	1930	235	0.					
1	0050	11	38.	*	1	0705	86	3389.	*	1	1320	161	0.	*	1	1935	236	0.					
1	0055	12	42.	*	1	0710	87	2956.	*	1	1325	162	0.	*	1	1940	237	0.					
1	0100	13	47.	*	1	0715	88	2572.	*	1	1330	163	0.	*	1	1945	238	0.					
1	0105	14	55.	*	1	0720	89	2230.	*	1	1335	164	0.	*	1	1950	239	0.					
1	0110	15	66.	*	1	0725	90	1927.	*	1	1340	165	0.	*	1	1955	240	0.					
1	0115	16	84.	*	1	0730	91	1657.	*	1	1345	166	0.	*	1	2000	241	0.					
1	0120	17	108.	*	1	0735	92	1417.	*	1	1350	167	0.	*	1	2005	242	0.					
1	0125	18	141.	*	1	0740	93	1206.	*	1	1355	168	0.	*	1	2010	243	0.					
1	0130	19	184.	*	1	0745	94	1020.	*	1	1400	169	0.	*	1	2015	244	0.					
1	0135	20	236.	*	1	0750	95	859.	*	1	1405	170	0.	*	1	2020	245	0.					
1	0140	21	297.	*	1	0755	96	720.	*	1	1410	171	0.	*	1	2025	246	0.					
1	0145	22	362.	*	1	0800	97	601.	*	1	1415	172	0.	*	1	2030	247	0.					
1	0150	23	430.	*	1	0805	98	500.	*	1	1420	173	0.	*	1	2035	248	0.					
1	0155	24	505.	*	1	0810	99	415.	*	1	1425	174	0.	*	1	2040	249	0.					
1	0200	25	593.	*	1	0815	100	344.	*	1	1430	175	0.	*	1	2045	250	0.					
1	0205	26	695.	*	1	0820	101	285.	*	1	1435	176	0.	*	1	2050	251	0.					
1	0210	27	797.	*	1	0825	102	236.	*	1	1440	177	0.	*	1	2055	252	0.					
1	0215	28	894.	*	1	0830	103	194.	*	1	1445	178	0.	*	1	2100	253	0.					
1	0220	29	985.	*	1	0835	104	160.	*	1	1450	179	0.	*	1	2105	254	0.					
1	0225	30	1079.	*	1	0840	105	132.	*	1	1455	180	0.	*	1	2110	255	0.					
1	0230	31	1189.	*	1	0845	106	109.	*	1	1500	181	0.	*	1	2115	256	0.					
1	0235	32	1315.	*	1	0850	107	89.	*	1	1505	182	0.	*	1	2120	257	0.					
1	0240	33	1449.	*	1	0855	108	73.	*	1	1510	183	0.	*	1	2125	258	0.					
1	0245	34	1591.	*	1	0900	109	60.	*	1	1515	184	0.	*	1	2130	259	0.					
1	0250	35	1748.	*	1	0905	110	49.	*	1	1520	185	0.	*	1	2135	260	0.					
1	0255	36	1924.	*	1	0910	111	39.	*	1	1525	186	0.	*	1	2140	261	0.					
1	0300	37	2120.	*	1	0915	112	31.	*	1	1530	187	0.	*	1	2145	262	0.					
1	0305	38	2337.	*	1	0920	113	25.	*	1	1535	188	0.	*	1	2150	263	0.					
1	0310	39	2575.	*	1	0925	114	19.	*	1	1540	189	0.	*	1	2155	264	0.					
1	0315	40	2868.	*	1	0930	115	15.	*	1	1545	190	0.	*	1	2200	265	0.					
1	0320	41	3210.	*	1	0935	116	12.	*	1	1550	191	0.	*	1	2205	266	0.					

DA	HRMN	ORD	FLOW	DA	HRMN	ORD	FLOW	DA	HRMN	ORD	FLOW	DA	HRMN	ORD	FLOW
1	0325	42	3620.	1	0940	117	9.	1	1555	192	0.	1	2210	267	0.
1	0330	43	4181.	1	0945	118	7.	1	1600	193	0.	1	2215	268	0.
1	0335	44	4798.	1	0950	119	5.	1	1605	194	0.	1	2220	269	0.
1	0340	45	5218.	1	0955	120	4.	1	1610	195	0.	1	2225	270	0.
1	0345	46	5527.	1	1000	121	3.	1	1615	196	0.	1	2230	271	0.
1	0350	47	6001.	1	1005	122	2.	1	1620	197	0.	1	2235	272	0.
1	0355	48	6705.	1	1010	123	2.	1	1625	198	0.	1	2240	273	0.
1	0400	49	7509.	1	1015	124	1.	1	1630	199	0.	1	2245	274	0.
1	0405	50	8343.	1	1020	125	1.	1	1635	200	0.	1	2250	275	0.
1	0410	51	9242.	1	1025	126	1.	1	1640	201	0.	1	2255	276	0.
1	0415	52	10224.	1	1030	127	0.	1	1645	202	0.	1	2300	277	0.
1	0420	53	11269.	1	1035	128	0.	1	1650	203	0.	1	2305	278	0.
1	0425	54	12339.	1	1040	129	0.	1	1655	204	0.	1	2310	279	0.
1	0430	55	13420.	1	1045	130	0.	1	1700	205	0.	1	2315	280	0.
1	0435	56	14488.	1	1050	131	0.	1	1705	206	0.	1	2320	281	0.
1	0440	57	15475.	1	1055	132	0.	1	1710	207	0.	1	2325	282	0.
1	0445	58	16278.	1	1100	133	0.	1	1715	208	0.	1	2330	283	0.
1	0450	59	16861.	1	1105	134	0.	1	1720	209	0.	1	2335	284	0.
1	0455	60	17178.	1	1110	135	0.	1	1725	210	0.	1	2340	285	0.
1	0500	61	17160.	1	1115	136	0.	1	1730	211	0.	1	2345	286	0.
1	0505	62	16860.	1	1120	137	0.	1	1735	212	0.	1	2350	287	0.
1	0510	63	16400.	1	1125	138	0.	1	1740	213	0.	1	2355	288	0.
1	0515	64	15844.	1	1130	139	0.	1	1745	214	0.	2	0000	289	0.
1	0520	65	15226.	1	1135	140	0.	1	1750	215	0.	2	0005	290	0.
1	0525	66	14588.	1	1140	141	0.	1	1755	216	0.	2	0010	291	0.
1	0530	67	13971.	1	1145	142	0.	1	1800	217	0.	2	0015	292	0.
1	0535	68	13400.	1	1150	143	0.	1	1805	218	0.	2	0020	293	0.
1	0540	69	12893.	1	1155	144	0.	1	1810	219	0.	2	0025	294	0.
1	0545	70	12454.	1	1200	145	0.	1	1815	220	0.	2	0030	295	0.
1	0550	71	12078.	1	1205	146	0.	1	1820	221	0.	2	0035	296	0.
1	0555	72	11733.	1	1210	147	0.	1	1825	222	0.	2	0040	297	0.
1	0600	73	11383.	1	1215	148	0.	1	1830	223	0.	2	0045	298	0.
1	0605	74	10989.	1	1220	149	0.	1	1835	224	0.	2	0050	299	0.
1	0610	75	10527.	1	1225	150	0.	1	1840	225	0.	2	0055	300	0.

	PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
				6-HR	24-HR	72-HR	24.92-HR
+	(CFS)	(HR)					
			(CFS)				
+	17178.	4.92		7084.	1792.	1726.	1726.
			(INCHES)	1.203	1.218	1.218	1.218
			(AC-FT)	3513.	3555.	3555.	3555.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .53

DA MON	HRMN	ORD	FLOW	DA MON	HRMN	ORD	FLOW	DA MON	HRMN	ORD	FLOW	DA MON	HRMN	ORD	FLOW
1	0000	1	0.	1	0615	76	8824.	1	1230	151	0.	1	1845	226	0.
1	0005	2	0.	1	0620	77	8275.	1	1235	152	0.	1	1850	227	0.
1	0010	3	0.	1	0625	78	7666.	1	1240	153	0.	1	1855	228	0.
1	0015	4	0.	1	0630	79	7015.	1	1245	154	0.	1	1900	229	0.
1	0020	5	0.	1	0635	80	6346.	1	1250	155	0.	1	1905	230	0.
1	0025	6	2.	1	0640	81	5684.	1	1255	156	0.	1	1910	231	0.
1	0030	7	9.	1	0645	82	5050.	1	1300	157	0.	1	1915	232	0.
1	0035	8	18.	1	0650	83	4460.	1	1305	158	0.	1	1920	233	0.
1	0040	9	23.	1	0655	84	3922.	1	1310	159	0.	1	1925	234	0.
1	0045	10	25.	1	0700	85	3438.	1	1315	160	0.	1	1930	235	0.
1	0050	11	25.	1	0705	86	3007.	1	1320	161	0.	1	1935	236	0.
1	0055	12	26.	1	0710	87	2624.	1	1325	162	0.	1	1940	237	0.
1	0100	13	28.	1	0715	88	2283.	1	1330	163	0.	1	1945	238	0.
1	0105	14	31.	1	0720	89	1980.	1	1335	164	0.	1	1950	239	0.
1	0110	15	36.	1	0725	90	1711.	1	1340	165	0.	1	1955	240	0.
1	0115	16	46.	1	0730	91	1471.	1	1345	166	0.	1	2000	241	0.
1	0120	17	60.	1	0735	92	1259.	1	1350	167	0.	1	2005	242	0.
1	0125	18	79.	1	0740	93	1071.	1	1355	168	0.	1	2010	243	0.
1	0130	19	106.	1	0745	94	907.	1	1400	169	0.	1	2015	244	0.
1	0135	20	139.	1	0750	95	763.	1	1405	170	0.	1	2020	245	0.
1	0140	21	179.	1	0755	96	640.	1	1410	171	0.	1	2025	246	0.
1	0145	22	222.	1	0800	97	534.	1	1415	172	0.	1	2030	247	0.
1	0150	23	269.	1	0805	98	445.	1	1420	173	0.	1	2035	248	0.
1	0155	24	321.	1	0810	99	369.	1	1425	174	0.	1	2040	249	0.
1	0200	25	385.	1	0815	100	306.	1	1430	175	0.	1	2045	250	0.
1	0205	26	461.	1	0820	101	253.	1	1435	176	0.	1	2050	251	0.
1	0210	27	540.	1	0825	102	210.	1	1440	177	0.	1	2055	252	0.
1	0215	28	616.	1	0830	103	173.	1	1445	178	0.	1	2100	253	0.
1	0220	29	690.	1	0835	104	143.	1	1450	179	0.	1	2105	254	0.
1	0225	30	768.	1	0840	105	117.	1	1455	180	0.	1	2110	255	0.
1	0230	31	859.	1	0845	106	97.	1	1500	181	0.	1	2115	256	0.
1	0235	32	964.	1	0850	107	79.	1	1505	182	0.	1	2120	257	0.
1	0240	33	1077.	1	0855	108	65.	1	1510	183	0.	1	2125	258	0.
1	0245	34	1197.	1	0900	109	53.	1	1515	184	0.	1	2130	259	0.
1	0250	35	1330.	1	0905	110	43.	1	1520	185	0.	1	2135	260	0.
1	0255	36	1479.	1	0910	111	35.	1	1525	186	0.	1	2140	261	0.
1	0300	37	1648.	1	0915	112	28.	1	1530	187	0.	1	2145	262	0.
1	0305	38	1833.	1	0920	113	22.	1	1535	188	0.	1	2150	263	0.
1	0310	39	2039.	1	0925	114	17.	1	1540	189	0.	1	2155	264	0.
1	0315	40	2291.	1	0930	115	13.	1	1545	190	0.	1	2200	265	0.
1	0320	41	2586.	1	0935	116	10.	1	1550	191	0.	1	2205	266	0.
1	0325	42	2939.	1	0940	117	8.	1	1555	192	0.	1	2210	267	0.
1	0330	43	3427.	1	0945	118	6.	1	1600	193	0.	1	2215	268	0.
1	0335	44	3972.	1	0950	119	5.	1	1605	194	0.	1	2220	269	0.
1	0340	45	4341.	1	0955	120	4.	1	1610	195	0.	1	2225	270	0.
1	0345	46	4608.	1	1000	121	3.	1	1615	196	0.	1	2230	271	0.
1	0350	47	5019.	1	1005	122	2.	1	1620	197	0.	1	2235	272	0.
1	0355	48	5633.	1	1010	123	2.	1	1625	198	0.	1	2240	273	0.
1	0400	49	6335.	1	1015	124	1.	1	1630	199	0.	1	2245	274	0.
1	0405	50	7063.	1	1020	125	1.	1	1635	200	0.	1	2250	275	0.
1	0410	51	7848.	1	1025	126	1.	1	1640	201	0.	1	2255	276	0.
1	0415	52	8709.	1	1030	127	0.	1	1645	202	0.	1	2300	277	0.
1	0420	53	9626.	1	1035	128	0.	1	1650	203	0.	1	2305	278	0.
1	0425	54	10568.	1	1040	129	0.	1	1655	204	0.	1	2310	279	0.
1	0430	55	11521.	1	1045	130	0.	1	1700	205	0.	1	2315	280	0.
1	0435	56	12466.	1	1050	131	0.	1	1705	206	0.	1	2320	281	0.
1	0440	57	13344.	1	1055	132	0.	1	1710	207	0.	1	2325	282	0.
1	0445	58	14067.	1	1100	133	0.	1	1715	208	0.	1	2330	283	0.
1	0450	59	14596.	1	1105	134	0.	1	1720	209	0.	1	2335	284	0.
1	0455	60	14896.	1	1110	135	0.	1	1725	210	0.	1	2340	285	0.
1	0500	61	14904.	1	1115	136	0.	1	1730	211	0.	1	2345	286	0.
1	0505	62	14665.	1	1120	137	0.	1	1735	212	0.	1	2350	287	0.
1	0510	63	14285.	1	1125	138	0.	1	1740	213	0.	1	2355	288	0.
1	0515	64	13820.	1	1130	139	0.	1	1745	214	0.	2	0000	289	0.
1	0520	65	13298.	1	1135	140	0.	1	1750	215	0.	2	0005	290	0.
1	0525	66	12759.	1	1140	141	0.	1	1755	216	0.	2	0010	291	0.
1	0530	67	12235.	1	1145	142	0.	1	1800	217	0.	2	0015	292	0.
1	0535	68	11750.	1	1150	143	0.	1	1805	218	0.	2	0020	293	0.
1	0540	69	11319.	1	1155	144	0.	1	1810	219	0.	2	0025	294	0.
1	0545	70	10948.	1	1200	145	0.	1	1815	220	0.	2	0030	295	0.
1	0550	71	10629.	1	1205	146	0.	1	1820	221	0.	2	0035	296	0.
1	0555	72	10337.	1	1210	147	0.	1	1825	222	0.	2	0040	297	0.
1	0600	73	10038.	1	1215	148	0.	1	1830	223	0.	2	0045	298	0.
1	0605	74	9700.	1	1220	149	0.	1	1835	224	0.	2	0050	299	0.
1	0610	75	9299.	1	1225	150	0.	1	1840	225	0.	2	0055	300	0.

	PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
				6-HR	24-HR	72-HR	24.92-HR
+	(CFS)	(HR)					
			(CFS)				
+	14904.	5.00		6115.	1544.	1488.	1488.
			(INCHES)	1.039	1.049	1.049	1.049
			(AC-FT)	3032.	3063.	3063.	3063.

CUMULATIVE AREA = 54.73 SQ MI

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              *************
              *           *
 230 KK       *    RRDB   *
              *           *
              *************

 243 KO          OUTPUT CONTROL VARIABLES
                       IPRNT          1  PRINT CONTROL
                       IPLOT          0  PLOT CONTROL
                       QSCAL         0.  HYDROGRAPH PLOT SCALE

               HYDROGRAPH ROUTING DATA

 244 RS          STORAGE ROUTING
                       NSTPS          1  NUMBER OF SUBREACHES
                        ITYP       STOR  TYPE OF INITIAL CONDITION
                      RSVRIC      -1.00  INITIAL CONDITION
                           X        .00 WORKING R AND D COEFFICIENT

 245 SV            STORAGE          .0       9.0     107.0     231.0     372.0     529.0     705.0     903.0    1125.0    1376.0
                                1659.0    1974.0    2007.0    2115.0    2331.0    2690.0    2933.0

 247 SQ          DISCHARGE          0.       10.       57.       80.       99.      114.      128.      140.      151.      162.
                                  171.      181.      182.     8654.    33270.   110918.   163477.

 249 SE          ELEVATION     3161.00   3162.00   3167.00   3172.00   3177.00   3182.00   3187.00   3192.00   3197.00   3202.00
                               3207.00   3212.00   3212.50   3214.00   3217.00   3222.00   3225.00

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HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .83

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000	1	0.	.0	3161.0	
1	0005	2	0.	.0	3161.0	
1	0010	3	0.	.0	3161.0	
1	0015	4	0.	.0	3161.0	
1	0020	5	0.	.0	3161.0	
1	0025	6	0.	.2	3161.0	
1	0030	7	1.	.7	3161.1	
1	0035	8	2.	1.5	3161.2	
1	0040	9	3.	2.5	3161.3	
1	0045	10	4.	3.6	3161.4	
1	0050	11	5.	4.8	3161.5	
1	0055	12	7.	6.2	3161.7	
1	0100	13	9.	7.8	3161.9	
1	0105	14	10.	9.8	3162.0	
1	0110	15	12.	12.2	3162.2	
1	0115	16	13.	15.2	3162.3	
1	0120	17	15.	18.9	3162.5	
1	0125	18	17.	23.6	3162.7	
1	0130	19	20.	29.3	3163.0	
1	0135	20	23.	36.3	3163.4	
1	0140	21	27.	44.8	3163.8	
1	0145	22	32.	54.7	3164.3	
1	0150	23	37.	66.1	3164.9	
1	0155	24	43.	78.9	3165.6	
1	0200	25	50.	93.1	3166.3	
1	0205	26	57.	108.9	3167.1	
1	0210	27	61.	126.1	3167.8	
1	0215	28	64.	144.7	3168.5	
1	0220	29	68.	164.4	3169.3	
1	0225	30	71.	185.1	3170.1	
1	0230	31	76.	206.9	3171.0	
1	0235	32	80.	230.1	3172.0	
1	0240	33	83.	254.8	3172.8	
1	0245	34	87.	281.0	3173.8	
1	0250	35	90.	308.9	3174.8	
1	0255	36	95.	338.7	3175.8	
1	0300	37	99.	370.8	3177.0	
1	0305	38	102.	405.2	3178.1	
1	0310	39	106.	442.3	3179.2	
1	0315	40	110.	482.5	3180.5	
1	0320	41	114.	526.3	3181.9	
1	0325	42	118.	574.4	3183.3	
1	0330	43	122.	628.0	3184.8	
1	0335	44	127.	688.3	3186.5	
1	0340	45	131.	754.2	3188.2	
1	0345	46	135.	824.0	3190.0	
1	0350	47	140.	898.2	3191.9	
1	0355	48	144.	979.2	3193.7	
1	0400	49	148.	1068.8	3195.7	
1	0405	50	153.	1167.6	3197.8	
1	0410	51	158.	1276.1	3200.0	
1	0415	52	163.	1395.3	3202.3	
1	0420	53	167.	1525.9	3204.6	
1	0425	54	171.	1668.2	3207.1	
1	0430	55	176.	1822.3	3209.6	
1	0435	56	181.	1988.1	3212.2	
1	0440	57	10353.	2129.9	3214.2	
1	0445	58	19856.	2213.3	3215.4	
1	0450	59	24571.	2254.7	3215.9	
1	0455	60	26965.	2275.7	3216.2	
1	0500	61	28064.	2285.3	3216.4	
1	0505	62	28314.	2287.5	3216.4	
1	0510	63	27997.	2284.7	3216.4	
1	0515	64	27317.	2278.8	3216.3	
1	0520	65	26408.	2270.8	3216.2	
1	0525	66	25366.	2261.6	3216.0	
1	0530	67	24272.	2252.0	3215.9	
1	0535	68	23193.	2242.6	3215.8	
1	0540	69	22175.	2233.6	3215.6	
1	0545	70	21250.	2225.5	3215.5	
1	0550	71	20430.	2218.3	3215.4	
1	0555	72	19705.	2212.0	3215.3	
1	0600	73	19039.	2206.1	3215.3	
1	0605	74	18381.	2200.4	3215.2	
1	0610	75	17683.	2194.2	3215.1	
1	0615	76	16904.	2187.4	3215.0	
1	0620	77	16021.	2179.6	3214.9	
1	0625	78	15031.	2171.0	3214.8	
1	0630	79	13947.	2161.4	3214.6	
1	0635	80	12798.	2151.4	3214.5	
1	0640	81	11619.	2141.0	3214.4	
1	0645	82	10447.	2130.7	3214.2	
1	0650	83	9316.	2120.8	3214.1	
1	0655	84	8352.	2111.1	3213.9	
1	0700	85	7572.	2101.2	3213.8	
1	0705	86	6776.	2091.1	3213.7	
1	0710	87	6010.	2081.3	3213.5	
1	0715	88	5296.	2072.2	3213.4	
1	0720	89	4642.	2063.9	3213.3	
1	0725	90	4051.	2056.3	3213.2	
1	0730	91	3519.	2049.5	3213.1	
1	0735	92	3044.	2043.5	3213.0	
1	0740	93	2621.	2038.1	3212.9	
1	0745	94	2245.	2033.3	3212.9	
1	0750	95	1914.	2029.1	3212.8	
1	0755	96	1623.	2025.4	3212.8	
1	0800	97	1371.	2022.2	3212.7	
1	0805	98	1153.	2019.4	3212.7	
1	0810	99	966.	2017.0	3212.6	
1	0815	100	806.	2015.0	3212.6	
1	0820	101	672.	2013.2	3212.6	
1	0825	102	558.	2011.8	3212.6	
1	0830	103	463.	2010.6	3212.5	
1	0835	104	383.	2009.6	3212.5	
1	0840	105	317.	2008.7	3212.5	
1	0845	106	262.	2008.0	3212.5	
1	0850	107	216.	2007.4	3212.5	
1	0855	108	182.	2006.9	3212.5	
1	0900	109	182.	2006.4	3212.5	
1	0905	110	182.	2005.7	3212.5	
1	0910	111	182.	2004.9	3212.5	
1	0915	112	182.	2004.1	3212.5	
1	0920	113	182.	2003.1	3212.4	
1	0925	114	182.	2002.1	3212.4	
1	0930	115	182.	2001.0	3212.4	
1	0935	116	182.	1999.9	3212.4	
1	0940	117	182.	1998.8	3212.4	
1	0945	118	182.	1997.6	3212.4	
1	0950	119	182.	1996.4	3212.3	
1	0955	120	182.	1995.2	3212.3	
1	1000	121	182.	1994.0	3212.3	
1	1005	122	182.	1992.8	3212.3	
1	1010	123	182.	1991.6	3212.3	
1	1015	124	181.	1990.3	3212.2	
1	1020	125	181.	1989.1	3212.2	
1	1025	126	181.	1987.9	3212.2	
1	1030	127	181.	1986.6	3212.2	
1	1035	128	181.	1985.4	3212.2	
1	1040	129	181.	1984.1	3212.2	
1	1045	130	181.	1982.9	3212.1	
1	1050	131	181.	1981.6	3212.1	
1	1055	132	181.	1980.4	3212.1	
1	1100	133	181.	1979.1	3212.1	
1	1105	134	181.	1977.9	3212.1	
1	1110	135	181.	1976.6	3212.0	
1	1115	136	181.	1975.4	3212.0	
1	1120	137	181.	1974.1	3212.0	
1	1125	138	181.	1972.9	3212.0	
1	1130	139	181.	1971.6	3212.0	
1	1135	140	181.	1970.4	3211.9	
1	1140	141	181.	1969.2	3211.9	
1	1145	142	181.	1967.9	3211.9	
1	1150	143	181.	1966.7	3211.9	
1	1155	144	181.	1965.4	3211.9	
1	1200	145	181.	1964.2	3211.8	
1	1205	146	181.	1962.9	3211.8	
1	1210	147	181.	1961.7	3211.8	
1	1215	148	181.	1960.4	3211.8	
1	1220	149	181.	1959.2	3211.8	
1	1225	150	180.	1958.0	3211.7	
1	1230	151	180.	1956.7	3211.7	
1	1235	152	180.	1955.5	3211.7	
1	1240	153	180.	1954.2	3211.7	
1	1245	154	180.	1953.0	3211.7	
1	1250	155	180.	1951.7	3211.6	
1	1255	156	180.	1950.5	3211.6	
1	1300	157	180.	1949.3	3211.6	
1	1305	158	180.	1948.0	3211.6	
1	1310	159	180.	1946.8	3211.6	
1	1315	160	180.	1945.5	3211.5	
1	1320	161	180.	1944.3	3211.5	
1	1325	162	180.	1943.1	3211.5	
1	1330	163	180.	1941.8	3211.5	
1	1335	164	180.	1940.6	3211.5	
1	1340	165	180.	1939.3	3211.4	
1	1345	166	180.	1938.1	3211.4	
1	1350	167	180.	1936.9	3211.4	
1	1355	168	180.	1935.6	3211.4	
1	1400	169	180.	1934.4	3211.4	
1	1405	170	180.	1933.2	3211.4	
1	1410	171	180.	1931.9	3211.3	
1	1415	172	180.	1930.7	3211.3	
1	1420	173	180.	1929.4	3211.3	
1	1425	174	180.	1928.2	3211.3	
1	1430	175	180.	1927.0	3211.3	
1	1435	176	179.	1925.7	3211.2	
1	1440	177	179.	1924.5	3211.2	
1	1445	178	179.	1923.3	3211.2	
1	1450	179	179.	1922.0	3211.2	
1	1455	180	179.	1920.8	3211.2	
1	1500	181	179.	1919.6	3211.1	
1	1505	182	179.	1918.3	3211.1	
1	1510	183	179.	1917.1	3211.1	
1	1515	184	179.	1915.9	3211.1	
1	1520	185	179.	1914.6	3211.1	
1	1525	186	179.	1913.4	3211.0	
1	1530	187	179.	1912.2	3211.0	
1	1535	188	179.	1910.9	3211.0	
1	1540	189	179.	1909.7	3211.0	
1	1545	190	179.	1908.5	3211.0	
1	1550	191	179.	1907.2	3210.9	
1	1555	192	179.	1906.0	3210.9	
1	1600	193	179.	1904.8	3210.9	
1	1605	194	179.	1903.5	3210.9	
1	1610	195	179.	1902.3	3210.9	
1	1615	196	179.	1901.1	3210.8	
1	1620	197	179.	1899.8	3210.8	
1	1625	198	179.	1898.6	3210.8	
1	1630	199	179.	1897.4	3210.8	
1	1635	200	179.	1896.1	3210.8	
1	1640	201	178.	1894.9	3210.7	
1	1645	202	178.	1893.7	3210.7	
1	1650	203	178.	1892.5	3210.7	
1	1655	204	178.	1891.2	3210.7	
1	1700	205	178.	1890.0	3210.7	
1	1705	206	178.	1888.8	3210.6	
1	1710	207	178.	1887.5	3210.6	
1	1715	208	178.	1886.3	3210.6	
1	1720	209	178.	1885.1	3210.6	
1	1725	210	178.	1883.9	3210.6	
1	1730	211	178.	1882.6	3210.5	
1	1735	212	178.	1881.4	3210.5	
1	1740	213	178.	1880.2	3210.5	
1	1745	214	178.	1879.0	3210.5	
1	1750	215	178.	1877.7	3210.5	
1	1755	216	178.	1876.5	3210.5	
1	1800	217	178.	1875.3	3210.4	
1	1805	218	178.	1874.1	3210.4	
1	1810	219	178.	1872.8	3210.4	
1	1815	220	178.	1871.6	3210.4	
1	1820	221	178.	1870.4	3210.4	
1	1825	222	178.	1869.2	3210.3	
1	1830	223	178.	1867.9	3210.3	
1	1835	224	178.	1866.7	3210.3	
1	1840	225	178.	1865.5	3210.3	
1	1845	226	178.	1864.3	3210.3	
1	1850	227	177.	1863.0	3210.2	
1	1855	228	177.	1861.8	3210.2	
1	1900	229	177.	1860.6	3210.2	
1	1905	230	177.	1859.4	3210.2	
1	1910	231	177.	1858.2	3210.2	
1	1915	232	177.	1856.9	3210.1	
1	1920	233	177.	1855.7	3210.1	
1	1925	234	177.	1854.5	3210.1	
1	1930	235	177.	1853.3	3210.1	
1	1935	236	177.	1852.1	3210.1	
1	1940	237	177.	1850.8	3210.0	
1	1945	238	177.	1849.6	3210.0	
1	1950	239	177.	1848.4	3210.0	
1	1955	240	177.	1847.2	3210.0	
1	2000	241	177.	1846.0	3210.0	
1	2005	242	177.	1844.7	3209.9	
1	2010	243	177.	1843.5	3209.9	
1	2015	244	177.	1842.3	3209.9	
1	2020	245	177.	1841.1	3209.9	
1	2025	246	177.	1839.9	3209.9	
1	2030	247	177.	1838.7	3209.9	
1	2035	248	177.	1837.4	3209.8	
1	2040	249	177.	1836.2	3209.8	
1	2045	250	177.	1835.0	3209.8	
1	2050	251	177.	1833.8	3209.8	
1	2055	252	177.	1832.6	3209.8	
1	2100	253	176.	1831.4	3209.7	
1	2105	254	176.	1830.1	3209.7	
1	2110	255	176.	1828.9	3209.7	
1	2115	256	176.	1827.7	3209.7	
1	2120	257	176.	1826.5	3209.7	
1	2125	258	176.	1825.3	3209.6	
1	2130	259	176.	1824.1	3209.6	
1	2135	260	176.	1822.9	3209.6	
1	2140	261	176.	1821.6	3209.6	
1	2145	262	176.	1820.4	3209.6	
1	2150	263	176.	1819.2	3209.5	
1	2155	264	176.	1818.0	3209.5	
1	2200	265	176.	1816.8	3209.5	
1	2205	266	176.	1815.6	3209.5	
1	2210	267	176.	1814.4	3209.5	
1	2215	268	176.	1813.2	3209.4	
1	2220	269	176.	1811.9	3209.4	
1	2225	270	176.	1810.7	3209.4	
1	2230	271	176.	1809.5	3209.4	
1	2235	272	176.	1808.3	3209.4	
1	2240	273	176.	1807.1	3209.4	
1	2245	274	176.	1805.9	3209.3	
1	2250	275	176.	1804.7	3209.3	
1	2255	276	176.	1803.5	3209.3	
1	2300	277	176.	1802.3	3209.3	
1	2305	278	176.	1801.1	3209.3	
1	2310	279	175.	1799.8	3209.2	
1	2315	280	175.	1798.6	3209.2	
1	2320	281	175.	1797.4	3209.2	
1	2325	282	175.	1796.2	3209.2	
1	2330	283	175.	1795.0	3209.2	
1	2335	284	175.	1793.8	3209.1	
1	2340	285	175.	1792.6	3209.1	
1	2345	286	175.	1791.4	3209.1	
1	2350	287	175.	1790.2	3209.1	
1	2355	288	175.	1789.0	3209.1	
2	0000	289	175.	1787.8	3209.0	
2	0005	290	175.	1786.6	3209.0	
2	0010	291	175.	1785.4	3209.0	
2	0015	292	175.	1784.2	3209.0	
2	0020	293	175.	1783.0	3209.0	
2	0025	294	175.	1781.7	3208.9	
2	0030	295	175.	1780.5	3208.9	
2	0035	296	175.	1779.3	3208.9	
2	0040	297	175.	1778.1	3208.9	
2	0045	298	175.	1776.9	3208.9	
2	0050	299	175.	1775.7	3208.9	
2	0055	300	175.	1774.5	3208.8	

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)				
	(CFS)				
28314.	5.08	8418.	2224.	2142.	2142.
	(INCHES)	1.430	1.511	1.511	1.511
	(AC-FT)	4174.	4411.	4411.	4411.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
(AC-FT)	(HR)				
2288.	5.08	2092.	1720.	1656.	1656.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
(FEET)	(HR)				
3216.40	5.08	3213.68	3206.31	3204.65	3204.65

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .80

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000	1	0.	.0	3161.0	
1	0005	2	0.	.0	3161.0	
1	0010	3	0.	.0	3161.0	
1	0015	4	0.	.0	3161.0	
1	0020	5	0.	.0	3161.0	
1	0025	6	0.	.2	3161.0	
1	0030	7	1.	.6	3161.1	
1	0035	8	1.	1.3	3161.1	
1	0040	9	2.	2.2	3161.2	
1	0045	10	4.	3.2	3161.4	
1	0050	11	5.	4.2	3161.5	
1	0055	12	6.	5.4	3161.6	
1	0100	13	8.	6.8	3161.8	
1	0105	14	9.	8.5	3161.9	
1	0110	15	11.	10.6	3162.1	
1	0115	16	12.	13.2	3162.2	
1	0120	17	14.	16.5	3162.4	
1	0125	18	16.	20.6	3162.6	
1	0130	19	18.	25.6	3162.8	
1	0135	20	21.	31.8	3163.2	
1	0140	21	25.	39.3	3163.5	
1	0145	22	29.	48.1	3164.0	
1	0150	23	34.	58.2	3164.5	
1	0155	24	39.	69.7	3165.1	
1	0200	25	45.	82.5	3165.7	
1	0205	26	52.	96.7	3166.5	
1	0210	27	58.	112.3	3167.2	
1	0215	28	61.	129.2	3167.9	
1	0220	29	64.	147.1	3168.6	
1	0225	30	68.	166.1	3169.4	
1	0230	31	72.	186.1	3170.2	
1	0235	32	76.	207.4	3171.0	
1	0240	33	80.	230.1	3172.0	
1	0245	34	83.	254.3	3172.8	
1	0250	35	87.	280.2	3173.7	
1	0255	36	90.	307.9	3174.7	
1	0300	37	94.	337.7	3175.8	
1	0305	38	99.	369.8	3176.9	
1	0310	39	102.	404.4	3178.0	
1	0315	40	106.	442.0	3179.2	
1	0320	41	110.	483.0	3180.5	
1	0325	42	114.	528.1	3182.0	
1	0330	43	118.	578.5	3183.4	
1	0335	44	122.	635.3	3185.0	
1	0340	45	127.	697.4	3186.8	
1	0345	46	132.	763.2	3188.5	
1	0350	47	136.	833.3	3190.2	
1	0355	48	140.	909.9	3192.2	
1	0400	49	145.	994.7	3194.1	
1	0405	50	149.	1088.3	3196.2	
1	0410	51	154.	1191.3	3198.3	
1	0415	52	159.	1304.5	3200.6	
1	0420	53	164.	1429.1	3203.0	
1	0425	54	169.	1566.1	3205.5	
1	0430	55	174.	1716.8	3208.1	
1	0435	56	179.	1882.1	3210.8	
1	0440	57	9798.	2062.7	3213.5	
1	0445	58	18813.	2157.1	3214.9	
1	0450	59	23277.	2199.8	3215.5	
1	0455	60	25537.	2220.8	3215.8	
1	0500	61	26586.	2230.3	3215.9	
1	0505	62	26824.	2232.4	3215.9	
1	0510	63	26523.	2229.6	3215.9	
1	0515	64	25877.	2223.8	3215.8	
1	0520	65	25015.	2216.0	3215.7	
1	0525	66	24054.	2207.3	3215.6	
1	0530	67	23000.	2197.9	3215.4	
1	0535	68	21977.	2188.7	3215.3	
1	0540	69	21010.	2180.0	3215.1	
1	0545	70	20132.	2172.0	3215.0	
1	0550	71	19354.	2165.0	3214.9	
1	0555	72	18677.	2158.9	3214.8	
1	0600	73	18048.	2153.3	3214.7	
1	0605	74	17424.	2147.7	3214.6	
1	0610	75	16763.	2141.8	3214.5	
1	0615	76	16020.	2135.2	3214.4	
1	0620	77	15180.	2127.7	3214.3	
1	0625	78	14243.	2119.4	3214.1	
1	0630	79	13220.	2110.3	3213.9	
1	0635	80	12128.	2100.5	3213.8	
1	0640	81	11010.	2090.4	3213.6	
1	0645	82	9904.	2080.3	3213.4	
1	0650	83	8833.	2070.5	3213.2	
1	0655	84	7919.	2061.6	3213.1	
1	0700	85	7180.	2053.8	3212.9	
1	0705	86	6426.	2045.8	3212.8	
1	0710	87	5701.	2038.0	3212.6	
1	0715	88	5024.	2030.5	3212.5	
1	0720	89	4402.	2023.5	3212.4	
1	0725	90	3841.	2017.2	3212.3	
1	0730	91	3337.	2011.4	3212.2	
1	0735	92	3044.	2043.5	3213.0	
1	0740	93	2621.	2038.1	3212.9	
1	0745	94	2245.	2033.3	3212.9	
1	0750	95	1914.	2029.1	3212.8	
1	0755	96	1623.	2025.4	3212.8	
1	0800	97	1371.	2022.2	3212.7	
1	0805	98	1153.	2019.4	3212.7	
1	0810	99	966.	2017.0	3212.6	
1	0815	100	806.	2015.0	3212.6	
1	0820	101	645.	2012.9	3212.6	
1	0825	102	536.	2011.5	3212.6	
1	0830	103	445.	2010.3	3212.5	
1	0835	104	368.	2009.4	3212.5	
1	0840	105	304.	2008.6	3212.5	
1	0845	106	251.	2007.9	3212.5	
1	0850	107	207.	2007.3	3212.5	
1	0855	108	182.	2006.8	3212.5	
1	0900	109	182.	2006.2	3212.5	
1	0905	110	182.	2005.6	3212.5	
1	0910	111	182.	2004.8	3212.5	
1	0915	112	182.	2003.9	3212.5	
1	0920	113	182.	2002.9	3212.4	
1	0925	114	182.	2001.9	3212.4	
1	0930	115	182.	2000.8	3212.4	
1	0935	116	182.	1999.7	3212.4	
1	0940	117	182.	1998.5	3212.4	
1	0945	118	182.	1997.4	3212.4	
1	0950	119	182.	1996.2	3212.3	
1	0955	120	182.	1995.0	3212.3	
1	1000	121	182.	1993.8	3212.3	
1	1005	122	182.	1992.5	3212.3	
1	1010	123	182.	1991.3	3212.3	
1	1015	124	181.	1990.1	3212.2	
1	1020	125	181.	1988.8	3212.2	
1	1025	126	181.	1987.6	3212.2	
1	1030	127	181.	1986.4	3212.2	
1	1035	128	181.	1985.1	3212.2	
1	1040	129	181.	1983.9	3212.1	
1	1045	130	181.	1982.6	3212.1	
1	1050	131	181.	1981.4	3212.1	
1	1055	132	181.	1980.1	3212.1	
1	1100	133	181.	1978.9	3212.1	
1	1105	134	181.	1977.6	3212.1	
1	1110	135	181.	1976.4	3212.0	
1	1115	136	181.	1975.1	3212.0	
1	1120	137	181.	1973.9	3212.0	
1	1125	138	181.	1972.6	3212.0	
1	1130	139	181.	1971.4	3212.0	
1	1135	140	181.	1970.2	3211.9	
1	1140	141	181.	1968.9	3211.9	
1	1145	142	181.	1967.7	3211.9	
1	1150	143	181.	1966.4	3211.9	
1	1155	144	181.	1965.2	3211.9	
1	1200	145	181.	1964.0	3211.8	
1	1205	146	181.	1962.7	3211.8	
1	1210	147	181.	1961.5	3211.8	
1	1215	148	181.	1960.2	3211.8	
1	1220	149	181.	1959.0	3211.8	
1	1225	150	180.	1957.7	3211.7	
1	1230	151	180.	1956.5	3211.7	
1	1235	152	180.	1955.2	3211.7	
1	1240	153	180.	1953.9	3211.7

1	0420	53	164.	1428.5	3202.9	*	1	1240	153	180.	1954.0	3211.7	*	1	2100	253	176.	1831.1	3209.7	1	0105	14	8.	7.0	3161.8	*	1	0925	114	182.	2001.6	3212.4	*	1	1745	214	178.	1878.4	3210.5
1	0425	54	168.	1563.7	3205.3	*	1	1245	154	180.	1952.7	3211.7	*	1	2105	254	176.	1829.9	3209.7	1	0110	15	10.	8.7	3162.0	*	1	0930	115	182.	2000.5	3212.4	*	1	1750	215	178.	1877.1	3210.5
1	0430	55	173.	1710.3	3207.8	*	1	1250	155	180.	1951.5	3211.6	*	1	2110	255	176.	1828.7	3209.7	1	0115	16	11.	10.8	3162.1	*	1	0935	116	182.	1999.4	3212.4	*	1	1755	216	178.	1875.9	3210.4
1	0435	56	178.	1868.1	3210.3	*	1	1255	156	180.	1950.3	3211.6	*	1	2115	256	176.	1827.5	3209.7	1	0120	17	12.	13.4	3162.2	*	1	0940	117	182.	1998.2	3212.4	*	1	1800	217	178.	1874.7	3210.4
1	0440	57	2003.	2030.2	3212.8	*	1	1300	157	180.	1949.0	3211.6	*	1	2120	257	176.	1826.3	3209.7	1	0125	18	14.	16.7	3162.4	*	1	0945	118	182.	1997.0	3212.3	*	1	1805	218	178.	1873.5	3210.4
1	0445	58	13329.	2156.0	3214.6	*	1	1305	158	180.	1947.8	3211.6	*	1	2125	258	176.	1825.0	3209.6	1	0130	19	16.	20.9	3162.6	*	1	0950	119	182.	1995.8	3212.3	*	1	1810	219	178.	1872.2	3210.4
1	0450	59	20983.	2223.2	3215.5	*	1	1310	159	180.	1946.5	3211.6	*	1	2130	259	176.	1823.8	3209.6	1	0135	20	18.	26.0	3162.9	*	1	0955	120	182.	1994.6	3212.3	*	1	1815	220	178.	1871.0	3210.4
1	0455	60	24651.	2255.4	3215.9	*	1	1315	160	180.	1945.3	3211.5	*	1	2135	260	176.	1822.6	3209.6	1	0140	21	21.	32.2	3163.2	*	1	1000	121	182.	1993.4	3212.3	*	1	1820	221	178.	1869.8	3210.3
1	0500	61	26310.	2269.9	3216.2	*	1	1320	161	180.	1944.1	3211.5	*	1	2140	261	176.	1821.4	3209.6	1	0145	22	25.	39.6	3163.6	*	1	1005	122	182.	1992.2	3212.3	*	1	1825	222	178.	1868.6	3210.3
1	0505	62	26822.	2274.4	3216.2	*	1	1325	162	180.	1942.8	3211.5	*	1	2145	262	176.	1820.2	3209.6	1	0150	23	29.	48.1	3164.0	*	1	1010	123	182.	1991.0	3212.3	*	1	1830	223	178.	1867.3	3210.3
1	0510	63	26643.	2272.9	3216.2	*	1	1330	163	180.	1941.6	3211.5	*	1	2150	263	176.	1819.0	3209.5	1	0155	24	33.	57.8	3164.5	*	1	1015	124	181.	1989.7	3212.2	*	1	1835	224	178.	1866.1	3210.3
1	0515	64	26052.	2267.7	3216.1	*	1	1335	164	180.	1940.3	3211.5	*	1	2155	264	176.	1817.8	3209.5	1	0200	25	39.	68.7	3165.0	*	1	1020	125	181.	1988.5	3212.2	*	1	1840	225	178.	1864.9	3210.3
1	0520	65	25214.	2260.3	3216.0	*	1	1340	165	180.	1939.1	3211.4	*	1	2200	265	176.	1816.5	3209.5	1	0205	26	44.	80.8	3165.7	*	1	1025	126	181.	1987.3	3212.2	*	1	1845	226	177.	1863.7	3210.2
1	0525	66	24236.	2251.7	3215.9	*	1	1345	166	180.	1937.9	3211.4	*	1	2205	266	176.	1815.3	3209.5	1	0210	27	51.	94.3	3166.4	*	1	1030	127	181.	1986.0	3212.2	*	1	1850	227	177.	1862.5	3210.2
1	0530	67	23203.	2242.7	3215.8	*	1	1350	167	180.	1936.6	3211.4	*	1	2210	267	176.	1814.1	3209.5	1	0215	28	57.	108.9	3167.1	*	1	1035	128	181.	1984.8	3212.2	*	1	1855	228	177.	1861.2	3210.2
1	0535	68	22180.	2233.7	3215.6	*	1	1355	168	180.	1935.4	3211.4	*	1	2215	268	176.	1812.9	3209.4	1	0220	29	60.	124.5	3167.7	*	1	1040	129	181.	1983.5	3212.1	*	1	1900	229	177.	1860.0	3210.2
1	0540	69	21214.	2225.2	3215.5	*	1	1400	169	180.	1934.1	3211.4	*	1	2220	269	176.	1811.7	3209.4	1	0225	30	63.	141.0	3168.4	*	1	1045	130	181.	1982.3	3212.1	*	1	1905	230	177.	1858.8	3210.2
1	0545	70	20337.	2217.5	3215.4	*	1	1405	170	180.	1932.9	3211.3	*	1	2225	270	176.	1810.5	3209.4	1	0230	31	67.	158.6	3169.1	*	1	1050	131	181.	1981.0	3212.1	*	1	1910	231	177.	1857.6	3210.2
1	0550	71	19559.	2210.7	3215.3	*	1	1410	171	180.	1931.7	3211.3	*	1	2230	271	176.	1809.3	3209.4	1	0235	32	70.	177.4	3169.8	*	1	1055	132	181.	1979.8	3212.1	*	1	1915	232	177.	1856.4	3210.1
1	0555	72	18871.	2204.7	3215.2	*	1	1415	172	180.	1930.4	3211.3	*	1	2235	272	176.	1808.1	3209.4	1	0240	33	74.	197.5	3170.6	*	1	1100	133	181.	1978.5	3212.1	*	1	1920	233	177.	1855.1	3210.1
1	0600	73	18238.	2199.1	3215.2	*	1	1420	173	180.	1929.2	3211.3	*	1	2240	273	176.	1806.9	3209.3	1	0245	34	78.	219.0	3171.5	*	1	1105	134	181.	1977.3	3212.0	*	1	1925	234	177.	1853.9	3210.1
1	0605	74	17612.	2193.6	3215.1	*	1	1425	174	180.	1928.0	3211.3	*	1	2245	274	176.	1805.6	3209.3	1	0250	35	81.	242.0	3172.4	*	1	1110	135	181.	1976.0	3212.0	*	1	1930	235	177.	1852.7	3210.1
1	0610	75	16947.	2187.8	3215.0	*	1	1430	175	179.	1926.7	3211.2	*	1	2250	275	176.	1804.4	3209.3	1	0255	36	85.	266.8	3173.3	*	1	1115	136	181.	1974.8	3212.0	*	1	1935	236	177.	1851.5	3210.1
1	0615	76	16204.	2181.3	3214.9	*	1	1435	176	179.	1925.5	3211.2	*	1	2255	276	176.	1803.2	3209.3	1	0300	37	88.	293.6	3174.2	*	1	1120	137	181.	1973.5	3212.0	*	1	1940	237	177.	1850.2	3210.0
1	0620	77	15361.	2173.8	3214.8	*	1	1440	177	179.	1924.2	3211.2	*	1	2300	277	176.	1802.0	3209.3	1	0305	38	92.	322.5	3175.2	*	1	1125	138	181.	1972.3	3212.0	*	1	1945	238	177.	1849.0	3210.0
1	0625	78	14414.	2165.5	3214.7	*	1	1445	178	179.	1923.0	3211.2	*	1	2305	278	176.	1800.8	3209.3	1	0310	39	97.	353.7	3176.4	*	1	1130	139	181.	1971.1	3212.0	*	1	1950	239	177.	1847.8	3210.0
1	0630	79	13377.	2156.4	3214.6	*	1	1450	179	179.	1921.8	3211.2	*	1	2310	279	175.	1799.6	3209.2	1	0315	40	100.	387.7	3177.5	*	1	1135	140	181.	1969.8	3211.9	*	1	1955	240	177.	1846.6	3210.0
1	0635	80	12276.	2146.8	3214.4	*	1	1455	180	179.	1920.5	3211.2	*	1	2315	280	175.	1798.4	3209.2	1	0320	41	104.	424.9	3178.7	*	1	1140	141	181.	1968.6	3211.9	*	1	2000	241	177.	1845.4	3210.0
1	0640	81	11146.	2136.9	3214.3	*	1	1500	181	179.	1919.3	3211.1	*	1	2320	281	175.	1797.2	3209.2	1	0325	42	108.	466.0	3180.0	*	1	1145	142	181.	1967.3	3211.9	*	1	2005	242	177.	1844.2	3209.9
1	0645	82	10023.	2127.0	3214.2	*	1	1505	182	179.	1918.1	3211.1	*	1	2325	282	175.	1796.0	3209.2	1	0330	43	112.	512.0	3181.5	*	1	1150	143	181.	1966.1	3211.9	*	1	2010	243	177.	1842.9	3209.9
1	0650	83	8939.	2117.5	3214.0	*	1	1510	183	179.	1916.8	3211.1	*	1	2330	283	175.	1794.8	3209.2	1	0335	44	117.	563.9	3183.0	*	1	1155	144	181.	1964.8	3211.9	*	1	2015	244	177.	1841.7	3209.9
1	0655	84	8100.	2107.9	3213.9	*	1	1515	184	179.	1915.6	3211.1	*	1	2335	284	175.	1793.6	3209.1	1	0340	45	121.	620.9	3184.6	*	1	1200	145	181.	1963.6	3211.8	*	1	2020	245	177.	1840.5	3209.9
1	0700	85	7315.	2097.9	3213.8	*	1	1520	185	179.	1914.4	3211.1	*	1	2340	285	175.	1792.4	3209.1	1	0345	46	126.	681.5	3186.3	*	1	1205	146	181.	1962.3	3211.8	*	1	2025	246	177.	1839.3	3209.9
1	0705	86	6531.	2087.9	3213.6	*	1	1525	186	179.	1913.1	3211.0	*	1	2345	286	175.	1791.2	3209.1	1	0350	47	130.	746.0	3188.0	*	1	1210	147	181.	1961.1	3211.8	*	1	2030	247	177.	1838.1	3209.8
1	0710	87	5784.	2078.4	3213.5	*	1	1530	187	179.	1911.9	3211.0	*	1	2350	287	175.	1789.9	3209.1	1	0355	48	135.	816.5	3189.8	*	1	1215	148	181.	1959.8	3211.8	*	1	2035	248	177.	1836.9	3209.8
1	0715	88	5092.	2069.6	3213.4	*	1	1535	188	179.	1910.7	3211.0	*	1	2355	288	175.	1788.7	3209.1	1	0400	49	140.	894.8	3191.8	*	1	1220	149	181.	1958.6	3211.8	*	1	2040	249	177.	1835.6	3209.8
1	0720	89	4461.	2061.5	3213.3	*	1	1540	189	179.	1909.4	3211.0	*	2	0000	289	175.	1787.5	3209.0	1	0405	50	144.	981.3	3193.8	*	1	1225	150	180.	1957.4	3211.7	*	1	2045	250	177.	1834.4	3209.8
1	0725	90	3891.	2054.3	3213.2	*	1	1545	190	179.	1908.2	3211.0	*	2	0005	290	175.	1786.3	3209.0	1	0410	51	149.	1076.5	3195.9	*	1	1230	151	180.	1956.1	3211.7	*	1	2050	251	177.	1833.2	3209.8
1	0730	91	3380.	2047.8	3213.1	*	1	1550	191	179.	1907.0	3210.9	*	2	0010	291	175.	1785.1	3209.0	1	0415	52	153.	1181.3	3198.1	*	1	1235	152	180.	1954.9	3211.7	*	1	2055	252	176.	1832.0	3209.7
1	0735	92	2923.	2041.9	3213.0	*	1	1555	192	179.	1905.7	3210.9	*	2	0015	292	175.	1783.9	3209.0	1	0420	53	159.	1296.2	3200.4	*	1	1240	153	180.	1953.6	3211.7	*	1	2100	253	176.	1830.8	3209.7
1	0740	93	2516.	2036.8	3212.9	*	1	1600	193	179.	1904.5	3210.9	*	2	0020	293	175.	1782.7	3209.0	1	0425	54	163.	1421.7	3202.8	*	1	1245	154	180.	1952.4	3211.7	*	1	2105	254	176.	1829.6	3209.7
1	0745	94	2156.	2032.2	3212.8	*	1	1605	194	179.	1903.3	3210.9	*	2	0025	294	175.	1781.5	3208.9	1	0430	55	168.	1557.9	3205.2	*	1	1250	155	180.	1951.2	3211.6	*	1	2110	255	176.	1828.3	3209.7
1	0750	95	1838.	2028.1	3212.8	*	1	1610	195	179.	1902.0	3210.9	*	2	0030	295	175.	1780.3	3208.9	1	0435	56	172.	1704.5	3207.7	*	1	1255	156	180.	1949.9	3211.6	*	1	2115	256	176.	1827.1	3209.7
1	0755	96	1559.	2024.6	3212.7	*	1	1615	196	179.	1900.8	3210.8	*	2	0035	296	175.	1779.1	3208.9	1	0440	57	177.	1861.2	3210.2	*	1	1300	157	180.	1948.7	3211.6	*	1	2120	257	176.	1825.9	3209.6
1	0800	97	1316.	2021.5	3212.7	*	1	1620	197	179.	1899.6	3210.8	*	2	0040	297	175.	1777.9	3208.9	1	0445	58	1373.	2022.2	3212.7	*	1	1305	158	180.	1947.4	3211.6	*	1	2125	258	176.	1824.7	3209.6
1	0805	98	1107.	2018.8	3212.7	*	1	1625	198	179.	1898.4	3210.8	*	2	0045	298	175.	1776.7	3208.9	1	0450	59	12370.	2147.6	3214.5	*	1	1310	159	180.	1946.2	3211.6	*	1	2130	259	176.	1823.5	3209.6
1	0810	99	927.	2016.5	3212.6	*	1	1630	199	179.	1897.1	3210.8	*	2	0050	299	175.	1775.5	3208.8	1	0455	60	19852.	2213.3	3215.4	*	1	1315	160	180.	1944.9	3211.5	*	1	2135	260	176.	1822.3	3209.6
1	0815	100	774.	2014.6	3212.6	*	1	1635	200	179.	1895.9	3210.8	*	2	0055	300	175.	1774.3	3208.8	1	0500	61	23179.	2242.5	3215.8	*	1	1320	161	180.	1943.7	3211.5	*	1	2140	261	176.	1821.1	3209.6
						*							*							1	0505	62	24442.	2253.5	3215.9	*	1	1325	162	180.	1942.5	3211.5	*	1	2145	262	176.	1819.8	3209.6
																				1	0510	63	24625.	2255.1	3215.9	*	1	1330	163	180.	1941.2	3211.5	*	1	2150	263	176.	1818.6	3209.5
																				1	0515	64	24233.	2251.7	3215.9	*	1	1335	164	180.	1940.0	3211.5	*	1	2155	264	176.	1817.4	3209.5
																				1	0520	65	23527.	2245.5	3215.8	*	1	1340	165	180.	1938.7	3211.4	*	1	2200	265	176.	1816.2	3209.5
																				1	0525	66	22652.	2237.8	3215.7	*	1	1345	166	180.	1937.5	3211.4	*	1	2205	266	176.	1815.0	3209.5
																				1	0530	67	21709.	2229.6	3215.6	*	1	1350	167	180.	1936.3	3211.4	*	1	2210	267	176.	1813.8	3209.5
																				1	0535	68	20769.	2221.3	3215.5	*	1	1355	168	180.	1935.0	3211.4	*	1	2215	268	176.	1812.6	3209.4
																				1	0540	69	19877.	2213.5	3215.4	*	1	1400	169	180.	1933.8	3211.4	*	1	2220	269	176.	1811.4	3209.4
																				1	0545	70	19065.	2206.4	3215.3	*	1	1405	170	180.	1932.6	3211.3	*	1	2225	270	176.	1810.2	3209.4
																				1	0550	71	18346.	2200.0	3215.2	*	1	1410	171	180.	1931.3	3211.3	*	1	2230	271	176.	1808.9	3209.4
																				1	0555	72	17709.	2194.5	3215.1	*	1	1415	172	180.	1930.1	3211.3	*	1	2235	272	176.	1807.7	3209.4
																				1	0600	73	17122.	2189.3	3215.0	*	1	1420	173	180.	1928.8	3211.3	*	1	2240	273	176.	1806.5	3209.3
																				1	0605	74	16542.	2184.2	3215.0	*	1	1425	174	180.	1927.6	3211.3	*	1	2245	274	176.	1805.3	3209.3
																				1	0610	75	15923.	2178.8	3214.9	*	1	1430	175	179.	1926.4	3211.2	*	1	2250	275	176.	1804.1	3209.3
																				1	0615	76	15229.	2172.7	3214.8	*	1	1435	176	179.	1925.1	3211.2	*	1	2255	276	176.	1802.9	3209.3
																				1	0620	77	14441.	2165.8	3214.7	*	1	1440	177	179.	1923.9	3211.2	*	1	2300	277	176.	1801.7	3209.3
																				1	0625	78	13554.	2158.0	3214.6	*	1	1445	178	179.	1922.7	3211.2	*	1	2305	278	175.	1800.5	3209.2
																				1	0630	79	12582.	2149.5	3214.5	*	1	1450	179	179.	1921.4	3211.2	*	1	2310	279	175.	1799.3	3209.2
																				1	0635	80	11549.	2140.4	3214.4	*	1	1455	180	179.	1920.2	3211.1	*	1	2315	280	175.	1798.1	3209.2
																				1	0640	81	10487.	2131.1	3214.2	*	1	1500	181	179.	1919.0	3211.1	*	1	2320	281	175.	1796.8	3209.2
																				1	0645	82	9431.	2121.8	3214.1	*	1	1505	182	179.	1917.7	3211.1	*	1	2325	282	175.	1795.6	3209.2
																				1	0650	83	8472.	2112.7	3214.0	*	1	1510	183	179.	1916.5	3211.1	*	1	2330	283	175.	1794.4	3209.1
																				1	0655	84	7724.	2103.1	3213.8	*	1	1515	184	179.	1915.3	3211.1	*	1	2335	284	175.	1793.2	3209.1
																				1	0700	85	6943.	2093.2	3213.7	*	1	1520	185	179.	1914.0	3211.0	*	1	2340	285	175.	1792.0	3209.1
																				1	0705	86	6181.	2083.5	3213.6	*	1	1525	186	179.	1912.8	3211.0	*	1	2345	286	175.	1790.8	3209.1
																				1	0710	87	5465.	2074.3	3213.4	*	1	1530	187	179.	1911.6	3211.0	*	1	2350	287	175.	1789.6	3209.1
																				1	0715	88	4805.	2065.9	3213.3	*	1	1535	188	179.	1910.3	3211.0	*	1	2355	288	175.	1788.4	3209.1
																				1	0720	89	4207.	2058.3	3213.2	*	1	1540	189	179.	1909.1	3211.0	*	2	0000	289	175.	1787.2	3209.0
																				1	0725	90	3668.	2051.4	3213.1	*	1	1545	190	179.	1907.9	3211.0	*	2	0005	290	175.	1786.0	3209.0
																				1	0730	91	3186.	2045.3	3213.0	*	1	1550	191	179.	1906.6	3210.9	*	2	0010	291	175.	1784.8	3209.0
																				1	0735	92	2755.	2039.8	3213.0	*	1	1555	192	179.	1905.4	3210.9	*	2	0015	292	175.	1783.6	3209.0
																				1	0740	93	2371.	2034.9	3212.9	*	1	1600	193	179.	1904.2	3210.9	*	2	0020	293	175.	1782.4	3209.0
																				1	0745	94	2031.	2030.6	3212.8	*	1	1605	194	179.	1902.9	3210.9	*	2	0025	294	175.	1781.2	3208.9
																				1	0750	95	1731.	2026.8	3212.8	*	1	1610	195	179.	1901.7	3210.9	*	2	0030	295	175.	1780.0	3208.9
																				1	0755	96	1469.	2023.4	3212.7	*	1	1615	196	179.	1900.5	3210.8	*	2	0035	296	175.	1778.8	3208.9
																				1	0800	97	1240.	2020.5	3212.7	*	1	1620	197	179.	1899.2	3210.8	*	2	0040	297	175.	1777.6	3208.9
																				1	0805	98	1043.	2018.0	3212.7	*	1	1625	198	179.	1898.0	3210.8	*	2	0045	298	175.	1776.4	3208.9
																				1	0810	99	874.	2015.8	3212.6	*	1	1630	199	179.	1896.8	3210.8	*	2	0050	299	175.	1775.2	3208.8
																				1	0815	100	730.	2014.0	3212.6	*	1	1635	200	179.	1895.6	3210.8	*	2	0055	300	175.	1773.9	3208.8

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PEAK FLOW TIME MAXIMUM AVERAGE FLOW

	6-HR	24-HR	72-HR	24.92-HR
+ (CFS) (HR)				
(CFS)				
+ 26822. 5.08	7811.	2072.	1996.	1996.
(INCHES)	1.327	1.408	1.408	1.408
(AC-FT)	3873.	4109.	4109.	4109.

PEAK STORAGE TIME MAXIMUM AVERAGE STORAGE

	6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT) (HR)				
2274. 5.08	2086.	1712.	1649.	1649.

PEAK STAGE TIME MAXIMUM AVERAGE STAGE

	6-HR	24-HR	72-HR	24.92-HR
+ (FEET) (HR)				
3216.21 5.08	3213.60	3206.14	3204.49	3204.49

CUMULATIVE AREA = 54.73 SQ MI

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HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .76

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DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000	1	0.	.0	3161.0 *	1	0820	101	608.	2012.4	3212.6 *	1	1640	201	178.	1894.3	3210.7			
1	0005	2	0.	.0	3161.0 *	1	0825	102	505.	2011.1	3212.6 *	1	1645	202	178.	1893.1	3210.7			
1	0010	3	0.	.0	3161.0 *	1	0830	103	419.	2010.0	3212.5 *	1	1650	203	178.	1891.9	3210.7			
1	0015	4	0.	.0	3161.0 *	1	0835	104	347.	2009.1	3212.5 *	1	1655	204	178.	1890.6	3210.7			
1	0020	5	0.	.0	3161.0 *	1	0840	105	287.	2008.3	3212.5 *	1	1700	205	178.	1889.4	3210.7			
1	0025	6	0.	.1	3161.0 *	1	0845	106	237.	2007.7	3212.5 *	1	1705	206	178.	1888.2	3210.6			
1	0030	7	1.	.5	3161.1 *	1	0850	107	195.	2007.2	3212.5 *	1	1710	207	178.	1887.0	3210.6			
1	0035	8	1.	1.0	3161.1 *	1	0855	108	182.	2006.7	3212.5 *	1	1715	208	178.	1885.7	3210.6			
1	0040	9	2.	1.8	3161.2 *	1	0900	109	182.	2006.1	3212.5 *	1	1720	209	178.	1884.5	3210.6			
1	0045	10	3.	2.6	3161.3 *	1	0905	110	182.	2005.3	3212.5 *	1	1725	210	178.	1883.3	3210.6			
1	0050	11	4.	3.5	3161.4 *	1	0910	111	182.	2004.5	3212.5 *	1	1730	211	178.	1882.0	3210.5			
1	0055	12	5.	4.4	3161.5 *	1	0915	112	182.	2003.6

+	24625.	5.17		6973.	1862.	1793.	1793.
			(INCHES)	1.185	1.265	1.265	1.265
			(AC-FT)	3458.	3692.	3693.	3693.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
2255.	5.17	2078.	1702.	1639.	1639.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3215.95	5.17	3213.48	3205.90	3204.25	3204.25

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .73

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	3161.0	1		0820	101	570.	2011.9	3212.6	1		1640	201	178.	1894.0	3210.7
1		0005	2	0.	.0	3161.0	1		0825	102	474.	2010.7	3212.6	1		1645	202	178.	1892.7	3210.7
1		0010	3	0.	.0	3161.0	1		0830	103	393.	2009.7	3212.5	1		1650	203	178.	1891.5	3210.7
1		0015	4	0.	.0	3161.0	1		0835	104	325.	2008.8	3212.5	1		1655	204	178.	1890.3	3210.7
1		0020	5	0.	.0	3161.0	1		0840	105	269.	2008.1	3212.5	1		1700	205	178.	1889.1	3210.7
1		0025	6	0.	.1	3161.0	1		0845	106	222.	2007.5	3212.5	1		1705	206	178.	1887.8	3210.6
1		0030	7	0.	.4	3161.0	1		0850	107	183.	2007.0	3212.5	1		1710	207	178.	1886.6	3210.6
1		0035	8	1.	.8	3161.1	1		0855	108	182.	2006.5	3212.5	1		1715	208	178.	1885.4	3210.6
1		0040	9	2.	1.4	3161.2	1		0900	109	182.	2005.8	3212.5	1		1720	209	178.	1884.1	3210.6
1		0045	10	2.	2.1	3161.2	1		0905	110	182.	2005.1	3212.5	1		1725	210	178.	1882.9	3210.6
1		0050	11	3.	2.8	3161.3	1		0910	111	182.	2004.2	3212.5	1		1730	211	178.	1881.7	3210.5
1		0055	12	4.	3.5	3161.4	1		0915	112	182.	2003.3	3212.4	1		1735	212	178.	1880.5	3210.5
1		0100	13	5.	4.4	3161.5	1		0920	113	182.	2002.3	3212.4	1		1740	213	178.	1879.2	3210.5
1		0105	14	6.	5.5	3161.6	1		0925	114	182.	2001.3	3212.4	1		1745	214	178.	1878.0	3210.5
1		0110	15	8.	6.9	3161.8	1		0930	115	182.	2000.2	3212.4	1		1750	215	178.	1876.8	3210.5
1		0115	16	9.	8.5	3161.9	1		0935	116	182.	1999.0	3212.4	1		1755	216	178.	1875.6	3210.4
1		0120	17	11.	10.6	3162.1	1		0940	117	182.	1997.9	3212.4	1		1800	217	178.	1874.3	3210.4
1		0125	18	12.	13.2	3162.2	1		0945	118	182.	1996.7	3212.3	1		1805	218	178.	1873.1	3210.4
1		0130	19	14.	16.5	3162.4	1		0950	119	182.	1995.5	3212.3	1		1810	219	178.	1871.9	3210.4
1		0135	20	16.	20.6	3162.6	1		0955	120	182.	1994.3	3212.3	1		1815	220	178.	1870.7	3210.4
1		0140	21	18.	25.7	3162.8	1		1000	121	182.	1993.1	3212.3	1		1820	221	178.	1869.4	3210.3
1		0145	22	21.	31.7	3163.2	1		1005	122	182.	1991.8	3212.3	1		1825	222	178.	1868.2	3210.3
1		0150	23	24.	38.7	3163.5	1		1010	123	182.	1990.6	3212.3	1		1830	223	178.	1867.0	3210.3
1		0155	24	28.	46.7	3163.9	1		1015	124	181.	1989.4	3212.2	1		1835	224	178.	1865.8	3210.3
1		0200	25	32.	55.7	3164.4	1		1020	125	181.	1988.1	3212.2	1		1840	225	178.	1864.6	3210.3
1		0205	26	37.	65.9	3164.9	1		1025	126	181.	1986.9	3212.2	1		1845	226	177.	1863.3	3210.2
1		0210	27	43.	77.3	3165.5	1		1030	127	181.	1985.7	3212.2	1		1850	227	177.	1862.1	3210.2
1		0215	28	49.	89.7	3166.1	1		1035	128	181.	1984.4	3212.2	1		1855	228	177.	1860.9	3210.2
1		0220	29	55.	103.0	3166.8	1		1040	129	181.	1983.2	3212.1	1		1900	229	177.	1859.7	3210.2
1		0225	30	59.	117.2	3167.4	1		1045	130	181.	1981.9	3212.1	1		1905	230	177.	1858.4	3210.2
1		0230	31	62.	132.4	3168.0	1		1050	131	181.	1980.7	3212.1	1		1910	231	177.	1857.2	3210.1
1		0235	32	65.	148.7	3168.7	1		1055	132	181.	1979.4	3212.1	1		1915	232	177.	1856.0	3210.1
1		0240	33	68.	166.2	3169.4	1		1100	133	181.	1978.2	3212.1	1		1920	233	177.	1854.8	3210.1
1		0245	34	71.	185.1	3170.1	1		1105	134	181.	1976.9	3212.0	1		1925	234	177.	1853.6	3210.1
1		0250	35	75.	205.3	3171.0	1		1110	135	181.	1975.7	3212.0	1		1930	235	177.	1852.3	3210.1
1		0255	36	79.	227.2	3171.8	1		1115	136	181.	1974.4	3212.0	1		1935	236	177.	1851.1	3210.0
1		0300	37	83.	250.9	3172.7	1		1120	137	181.	1973.2	3212.0	1		1940	237	177.	1849.9	3210.0
1		0305	38	86.	276.6	3173.6	1		1125	138	181.	1971.9	3212.0	1		1945	238	177.	1848.7	3210.0
1		0310	39	90.	304.4	3174.6	1		1130	139	181.	1970.7	3211.9	1		1950	239	177.	1847.5	3210.0
1		0315	40	94.	334.8	3175.7	1		1135	140	181.	1969.4	3211.9	1		1955	240	177.	1846.2	3210.0
1		0320	41	98.	368.2	3176.9	1		1140	141	181.	1968.2	3211.9	1		2000	241	177.	1845.0	3210.0
1		0325	42	102.	405.2	3178.1	1		1145	142	181.	1967.0	3211.9	1		2005	242	177.	1843.8	3209.9
1		0330	43	106.	446.8	3179.4	1		1150	143	181.	1965.7	3211.9	1		2010	243	177.	1842.6	3209.9
1		0335	44	111.	493.9	3180.9	1		1155	144	181.	1964.5	3211.8	1		2015	244	177.	1841.4	3209.9
1		0340	45	115.	545.7	3182.5	1		1200	145	181.	1963.2	3211.8	1		2020	245	177.	1840.2	3209.9
1		0345	46	120.	600.8	3184.0	1		1205	146	181.	1962.0	3211.8	1		2025	246	177.	1838.9	3209.9
1		0350	47	124.	659.6	3185.7	1		1210	147	181.	1960.7	3211.8	1		2030	247	177.	1837.7	3209.8
1		0355	48	129.	724.0	3187.5	1		1215	148	181.	1959.5	3211.8	1		2035	248	177.	1836.5	3209.8
1		0400	49	133.	795.5	3189.3	1		1220	149	180.	1958.2	3211.8	1		2040	249	177.	1835.3	3209.8
1		0405	50	138.	874.8	3191.3	1		1225	150	180.	1957.0	3211.7	1		2045	250	177.	1834.1	3209.8
1		0410	51	143.	962.2	3193.3	1		1230	151	180.	1955.8	3211.7	1		2050	251	177.	1832.9	3209.8
1		0415	52	148.	1058.4	3195.5	1		1235	152	180.	1954.5	3211.7	1		2055	252	176.	1831.6	3209.7
1		0420	53	153.	1164.1	3197.8	1		1240	153	180.	1953.3	3211.7	1		2100	253	176.	1830.4	3209.7
1		0425	54	158.	1279.7	3200.1	1		1245	154	180.	1952.0	3211.7	1		2105	254	176.	1829.2	3209.7
1		0430	55	163.	1405.2	3202.5	1		1250	155	180.	1950.8	3211.6	1		2110	255	176.	1828.0	3209.7
1		0435	56	167.	1540.5	3204.9	1		1255	156	180.	1949.6	3211.6	1		2115	256	176.	1826.8	3209.7
1		0440	57	172.	1685.2	3207.4	1		1300	157	180.	1948.3	3211.6	1		2120	257	176.	1825.6	3209.6
1		0445	58	177.	1837.9	3209.8	1		1305	158	180.	1947.1	3211.6	1		2125	258	176.	1824.4	3209.6
1		0450	59	182.	1996.6	3212.3	1		1310	159	180.	1945.8	3211.6	1		2130	259	176.	1823.1	3209.6
1		0455	60	9863.	2125.6	3214.1	1		1315	160	180.	1944.6	3211.5	1		2135	260	176.	1821.9	3209.6
1		0500	61	17764.	2194.9	3215.1	1		1320	161	180.	1943.4	3211.5	1		2140	261	176.	1820.7	3209.6
1		0505	62	21044.	2223.7	3215.5	1		1325	162	180.	1942.1	3211.5	1		2145	262	176.	1819.5	3209.5
1		0510	63	22143.	2233.4	3215.6	1		1330	163	180.	1940.9	3211.5	1		2150	263	176.	1818.3	3209.5
1		0515	64	22192.	2233.8	3215.6	1		1335	164	180.	1939.6	3211.5	1		2155	264	176.	1817.1	3209.5
1		0520	65	21723.	2229.7	3215.6	1		1340	165	180.	1938.4	3211.4	1		2200	265	176.	1815.9	3209.5
1		0525	66	20998.	2223.3	3215.5	1		1345	166	180.	1937.2	3211.4	1		2205	266	176.	1814.6	3209.5
1		0530	67	20167.	2216.0	3215.4	1		1350	167	180.	1935.9	3211.4	1		2210	267	176.	1813.4	3209.5
1		0535	68	19318.	2208.6	3215.3	1		1355	168	180.	1934.7	3211.4	1		2215	268	176.	1812.2	3209.4
1		0540	69	18505.	2201.4	3215.2	1		1400	169	180.	1933.4	3211.4	1		2220	269	176.	1811.0	3209.4
1		0545	70	17761.	2194.9	3215.1	1		1405	170	180.	1932.2	3211.3	1		2225	270	176.	1809.8	3209.4
1		0550	71	17102.	2189.1	3215.0	1		1410	171	180.	1931.0	3211.3	1		2230	271	176.	1808.6	3209.4
1		0555	72	16517.	2184.0	3215.0	1		1415	172	180.	1929.7	3211.3	1		2235	272	176.	1807.4	3209.4
1		0600	73	15978.	2179.3	3214.9	1		1420	173	180.	1928.5	3211.3	1		2240	273	176.	1806.2	3209.3
1		0605	74	15443.	2174.6	3214.8	1		1425	174	180.	1927.3	3211.3	1		2245	274	176.	1805.0	3209.3
1		0610	75	14872.	2169.6	3214.8	1		1430	175	179.	1926.0	3211.2	1		2250	275	176.	1803.8	3209.3
1		0615	76	14229.	2163.9	3214.7	1		1435	176	179.	1924.8	3211.2	1		2255	276	176.	1802.5	3209.3
1		0620	77	13497.	2157.5	3214.6	1		1440	177	179.	1923.5	3211.2	1		2300	277	176.	1801.3	3209.3
1		0625	78	12672.	2150.3	3214.5	1		1445	178	179.	1922.3	3211.2	1		2305	278	175.	1800.1	3209.2
1		0630	79	11765.	2142.3	3214.4	1		1450	179	179.	1921.1	3211.2	1		2310	279	175.	1798.9	3209.2
1		0635	80	10802.	2133.8	3214.3	1		1455	180	179.	1919.8	3211.1	1		2315	280	175.	1797.7	3209.2
1		0640	81	9811.	2125.2	3214.1	1		1500	181	179.	1918.6	3211.1	1		2320	281	175.	1796.5	3209.2
1		0645	82	8825.	2116.5	3214.0	1		1505	182	179.	1917.4	3211.1	1		2325	282	175.	1795.3	3209.2
1		0650	83	8064.	2107.5	3213.9	1		1510	183	179.	1916.1	3211.1	1		2330	283	175.	1794.1	3209.1
1		0655	84	7307.	2097.8	3213.8	1		1515	184	179.	1914.9	3211.1	1		2335	284	175.	1792.9	3209.1
1		0700	85	6544.	2088.1	3213.6	1		1520	185	179.	1913.7	3211.0	1		2340	285	175.	1791.7	3209.1
1		0705	86	5812.	2078.8	3213.5	1		1525	186	179.	1912.4	3211.0	1		2345	286	175.	1790.5	3209.1
1		0710	87	5131.	2070.1	3213.4	1		1530	187	179.	1911.2	3211.0	1		2350	287	175.	1789.3	3209.1
1		0715	88	4508.	2062.1	3213.3	1		1535	188	179.	1910.0	3211.0	1		2355	288	175.	1788.1	3209.0
1		0720	89	3945.	2055.0	3213.2	1		1540	189	179.	1908.7	3211.0	2		0000	289	175.	1786.8	3209.0
1		0725	90	3438.	2048.5	3213.1	1		1545	190	179.	1907.5	3210.9	2		0005	290	175.	1785.6	3209.0
1		0730	91	2985.	2042.7	3213.0	1		1550	191	179.	1906.3	3210.9	2		0010	291	175.	1784.4	3209.0
1		0735	92	2581.	2037.6	3212.9	1		1555	192	179.	1905.0	3210.9	2		0015	292	175.	1783.2	3209.0
1		0740	93	2222.	2033.0	3212.9	1		1600	193	179.	1903.8	3210.9	2		0020	293	175.	1782.0	3209.0
1		0745	94	1903.	2028.9	3212.8	1		1605	194	179.	1902.6	3210.9	2		0025	294	175.	1780.8	3208.9
1		0750	95	1622.	2025.4	3212.8	1		1610	195	179.	1901.4	3210.8	2		0030	295	175.	1779.6	3208.9
1		0755	96	1376.	2022.2	3212.7	1		1615	196	179.	1900.1	3210.8	2		0035	296	175.	1778.4	3208.9
1		0800	97	1162.	2019.5	3212.7	1		1620	197	179.	1898.9	3210.8	2		0040	297	175.	1777.2	3208.9
1		0805	98	977.	2017.1	3212.6	1		1625	198	179.	1897.7	3210.8	2		0045	298	175.	1776.0	3208.9
1		0810	99	819.	2015.1	3212.6	1		1630	199	179.	1896.4	3210.8	2		0050	299	175.	1774.8	3208.8
1		0815	100	684.	2013.4	3212.6	1		1635	200	178.	1895.2	3210.7	2		0055	300	175.	1773.6	3208.8

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
22192.	5.25	6123.	1648.	1588.	1588.
	(INCHES)	1.040	1.120	1.120	1.120
	(AC-FT)	3036.	3269.	3269.	3269.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
2234.	5.25	2069.	1691.	1629.	1629.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3215.65	5.25	3213.36	3205.63	3203.99	3203.99

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .69

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	3161.0	1		0820	101	541.	2011.6	3212.6	1		1640	201	178.	1893.7	3210.7
1		0005	2	0.	.0	3161.0	1		0825	102	450.	2010.4	3212.5	1		1645	202	178.	1892.4	3210.7
1		0010	3	0.	.0	3161.0	1		0830	103	373.	2009.4	3212.5	1		1650	203	178.	1891.2	3210.7
1		0015	4	0.	.0	3161.0	1		0835	104	309.	2008.6	3212.5	1		1655	204	178.	1890.0	3210.7
1		0020	5	0.	.0	3161.0	1		0840	105	256.	2007.9	3212.5	1		1700	205	178.	1888.7	3210.6
1		0025	6	0.	.1	3161.0	1		0845	106	211.	2007.4	3212.5	1		1705	206	178.	1887.5	3210.6
1		0030	7	0.	.3	3161.0	1		0850	107	182.	2006.9	3212.5	1		1710	207	178.	1886.3	3210.6
1		0035	8	1.	.7	3161.1	1		0855	108	182.	2006.3	3212.5	1		1715	208	178.	1885.1	3210.6
1		0040	9	1.	1.2	3161.1	1		0900	109	182.	2005.6	3212.5	1		1720	209	178.	1883.8	3210.6
1		0045	10	2.	1.7	3161.2	1		0905	110	182.	2004.9	3212.5	1		1725	210	178.	1882.6	3210.5
1		0050	11	3.	2.3	3161.3	1		0910	111	182.	2004.0	3212.5	1		1730	211	178.	1881.4	3210.5
1		0055	12	3.	2.9	3161.3	1		0915	112	182.	2003.0	3212.4	1		1735	212	178.	1880.2	3210.5
1		0100	13	4.	3.7	3161.4	1		0920	113	182.	2002.0	3212.4	1		1740	213	178.	1878.9	3210.5
1		0105	14	5.	4.6	3161.5	1		0925	114	182.	2001.0	3212.4	1		1745	214	178.	1877.7	3210.5
1		0110	15	6.	5.7	3161.6	1		0930	115	182.	1999.9	3212.4	1		1750	215	178.	1876.5	3210.5
1		0115	16	8.	7.0	3161.8	1		0935	116	182.	1998.7	3212.4	1		1755	216	178.	1875.3	3210.4
1		0120	17	10.	8.7	3162.0	1		0940	117	182.	1997.6	3212.4	1		1800	217	178.	1874.0	3210.4
1		0125	18	11.	10.9	3162.1	1		0945	118	182.	1996.4	3212.3	1		1805	218	178.	1872.8	3210.4
1		0130	19	12.	13.6	3162.2	1		0950	119	182.	1995.2	3212.3	1		1810	219	178.	1871.6	3210.4
1		0135	20	14.	17.0	3162.4	1		0955	120	182.	1994.0	3212.3	1		1815	220	178.	1870.4	3210.4
1		0140	21	16.	21.3	3162.6	1		1000	121	182.	1992.8	3212.3	1		1820	221	178.	1869.1	3210.3
1		0145	22	18.	26.3	3162.9	1		1005	122	182.	1991.5	3212.3	1		1825	222	178.	1867.9	3210.3
1		0150	23	21.	32.3	3163.2	1		1010	123	181.	1990.3	3212.2	1		1830	223	178.	1866.7	3210.3
1		0155	24	24.	39.1	3163.5	1		1015	124	181.	1989.1	3212.2	1		1835	224	178.	1865.5	3210.3
1		0200	25	28.	46.9	3163.9	1		1020	125	181.	1987.8	3212.2	1		1840	225	178.	1864.2	3210.3
1		0205	26	32.	55.7	3164.4	1		1025	126	181.	1986.6	3212.2	1		1845	226	177.	1863.0	3210.2
1		0210	27	37.	65.6	3164.9	1		1030	127	181.	1985.3	3212.2	1		1850	227	177.	1861.8	3210.2
1		0215	28	42.	76.4	3165.4	1		1035	128	181.	1984.1	3212.2	1		1855	228	177.	1860.6	3210.2
1		0220	29	48.	88.1	3166.0	1		1040	129	181.	1982.8	3212.1	1		1900	229	177.	1859.3	3210.2

1	0225	30	54.	100.7	3166.7	*	1	1045	130	181.	1981.6	3212.1	*	1	1905	230	177.	1858.1	3210.2
1	0230	31	58.	114.1	3167.3	*	1	1050	131	181.	1980.3	3212.1	*	1	1910	231	177.	1856.9	3210.1
1	0235	32	61.	128.6	3167.9	*	1	1055	132	181.	1979.1	3212.1	*	1	1915	232	177.	1855.7	3210.1
1	0240	33	64.	144.3	3168.5	*	1	1100	133	181.	1977.8	3212.1	*	1	1920	233	177.	1854.5	3210.1
1	0245	34	67.	161.2	3169.2	*	1	1105	134	181.	1976.6	3212.0	*	1	1925	234	177.	1853.2	3210.1
1	0250	35	70.	179.5	3169.9	*	1	1110	135	181.	1975.4	3212.0	*	1	1930	235	177.	1852.0	3210.1
1	0255	36	74.	199.3	3170.7	*	1	1115	136	181.	1974.1	3212.0	*	1	1935	236	177.	1850.8	3210.0
1	0300	37	78.	220.7	3171.6	*	1	1120	137	181.	1972.9	3212.0	*	1	1940	237	177.	1849.6	3210.0
1	0305	38	82.	244.0	3172.5	*	1	1125	138	181.	1971.6	3212.0	*	1	1945	238	177.	1848.4	3210.0
1	0310	39	85.	269.4	3173.4	*	1	1130	139	181.	1970.4	3211.9	*	1	1950	239	177.	1847.1	3210.0
1	0315	40	89.	297.2	3174.3	*	1	1135	140	181.	1969.1	3211.9	*	1	1955	240	177.	1845.9	3210.0
1	0320	41	93.	327.8	3175.4	*	1	1140	141	181.	1967.9	3211.9	*	1	2000	241	177.	1844.7	3209.9
1	0325	42	98.	361.7	3176.6	*	1	1145	142	181.	1966.6	3211.9	*	1	2005	242	177.	1843.5	3209.9
1	0330	43	102.	400.0	3177.9	*	1	1150	143	181.	1965.4	3211.9	*	1	2010	243	177.	1842.3	3209.9
1	0335	44	106.	443.5	3179.3	*	1	1155	144	181.	1964.1	3211.8	*	1	2015	244	177.	1841.1	3209.9
1	0340	45	110.	491.6	3180.8	*	1	1200	145	181.	1962.9	3211.8	*	1	2020	245	177.	1839.8	3209.9
1	0345	46	115.	542.7	3182.4	*	1	1205	146	181.	1961.7	3211.8	*	1	2025	246	177.	1838.6	3209.9
1	0350	47	119.	597.3	3183.9	*	1	1210	147	181.	1960.4	3211.8	*	1	2030	247	177.	1837.4	3209.8
1	0355	48	124.	657.2	3185.6	*	1	1215	148	181.	1959.2	3211.8	*	1	2035	248	177.	1836.2	3209.8
1	0400	49	129.	723.8	3187.5	*	1	1220	149	180.	1957.9	3211.7	*	1	2040	249	177.	1835.0	3209.8
1	0405	50	134.	797.7	3189.3	*	1	1225	150	180.	1956.7	3211.7	*	1	2045	250	177.	1833.8	3209.8
1	0410	51	139.	879.2	3191.4	*	1	1230	151	180.	1955.4	3211.7	*	1	2050	251	177.	1832.5	3209.8
1	0415	52	143.	969.1	3193.5	*	1	1235	152	180.	1954.2	3211.7	*	1	2055	252	176.	1831.3	3209.7
1	0420	53	148.	1068.0	3195.7	*	1	1240	153	180.	1953.0	3211.7	*	1	2100	253	176.	1830.1	3209.7
1	0425	54	153.	1176.1	3198.0	*	1	1245	154	180.	1951.7	3211.6	*	1	2105	254	176.	1828.9	3209.7
1	0430	55	158.	1293.7	3200.4	*	1	1250	155	180.	1950.5	3211.6	*	1	2110	255	176.	1827.7	3209.7
1	0435	56	163.	1420.6	3202.8	*	1	1255	156	180.	1949.2	3211.6	*	1	2115	256	176.	1826.5	3209.7
1	0440	57	168.	1556.4	3205.2	*	1	1300	157	180.	1948.0	3211.6	*	1	2120	257	176.	1825.3	3209.6
1	0445	58	172.	1699.8	3207.6	*	1	1305	158	180.	1946.8	3211.6	*	1	2125	258	176.	1824.0	3209.6
1	0450	59	177.	1848.9	3210.0	*	1	1310	159	180.	1945.5	3211.5	*	1	2130	259	176.	1822.8	3209.6
1	0455	60	182.	2001.6	3212.4	*	1	1315	160	180.	1944.3	3211.5	*	1	2135	260	176.	1821.6	3209.6
1	0500	61	9552.	2122.9	3214.1	*	1	1320	161	180.	1943.0	3211.5	*	1	2140	261	176.	1820.4	3209.6
1	0505	62	16688.	2185.5	3215.0	*	1	1325	162	180.	1941.8	3211.5	*	1	2145	262	176.	1819.2	3209.5
1	0510	63	19494.	2210.1	3215.3	*	1	1330	163	180.	1940.6	3211.5	*	1	2150	263	176.	1818.0	3209.5
1	0515	64	20319.	2217.4	3215.4	*	1	1335	164	180.	1939.3	3211.4	*	1	2155	264	176.	1816.8	3209.5
1	0520	65	20222.	2216.5	3215.4	*	1	1340	165	180.	1938.1	3211.4	*	1	2200	265	176.	1815.5	3209.5
1	0525	66	19695.	2211.9	3215.3	*	1	1345	166	180.	1936.8	3211.4	*	1	2205	266	176.	1814.3	3209.5
1	0530	67	18984.	2205.6	3215.3	*	1	1350	167	180.	1935.6	3211.4	*	1	2210	267	176.	1813.1	3209.4
1	0535	68	18219.	2198.9	3215.2	*	1	1355	168	180.	1934.4	3211.4	*	1	2215	268	176.	1811.9	3209.4
1	0540	69	17471.	2192.4	3215.1	*	1	1400	169	180.	1933.1	3211.4	*	1	2220	269	176.	1810.7	3209.4
1	0545	70	16782.	2186.3	3215.0	*	1	1405	170	180.	1931.9	3211.3	*	1	2225	270	176.	1809.5	3209.4
1	0550	71	16168.	2180.9	3214.9	*	1	1410	171	180.	1930.6	3211.3	*	1	2230	271	176.	1808.3	3209.4
1	0555	72	15623.	2176.2	3214.8	*	1	1415	172	180.	1929.4	3211.3	*	1	2235	272	176.	1807.1	3209.4
1	0600	73	15120.	2171.7	3214.8	*	1	1420	173	180.	1928.2	3211.3	*	1	2240	273	176.	1805.9	3209.3
1	0605	74	14620.	2167.3	3214.7	*	1	1425	174	180.	1926.9	3211.3	*	1	2245	274	176.	1804.7	3209.3
1	0610	75	14083.	2162.6	3214.7	*	1	1430	175	179.	1925.7	3211.2	*	1	2250	275	176.	1803.4	3209.3
1	0615	76	13479.	2157.3	3214.6	*	1	1435	176	179.	1924.5	3211.2	*	1	2255	276	176.	1802.2	3209.3
1	0620	77	12789.	2151.3	3214.5	*	1	1440	177	179.	1923.2	3211.2	*	1	2300	277	176.	1801.0	3209.3
1	0625	78	12010.	2144.4	3214.4	*	1	1445	178	179.	1922.0	3211.2	*	1	2305	278	175.	1799.8	3209.2
1	0630	79	11153.	2136.9	3214.3	*	1	1450	179	179.	1920.8	3211.2	*	1	2310	279	175.	1798.6	3209.2
1	0635	80	10241.	2128.9	3214.2	*	1	1455	180	179.	1919.5	3211.1	*	1	2315	280	175.	1797.4	3209.2
1	0640	81	9303.	2120.7	3214.1	*	1	1500	181	179.	1918.3	3211.1	*	1	2320	281	175.	1796.2	3209.2
1	0645	82	8439.	2112.3	3214.0	*	1	1505	182	179.	1917.1	3211.1	*	1	2325	282	175.	1795.0	3209.2
1	0650	83	7729.	2103.2	3213.8	*	1	1510	183	179.	1915.8	3211.1	*	1	2330	283	175.	1793.8	3209.1
1	0655	84	6977.	2093.6	3213.7	*	1	1515	184	179.	1914.6	3211.1	*	1	2335	284	175.	1792.6	3209.1
1	0700	85	6234.	2084.2	3213.6	*	1	1520	185	179.	1913.4	3211.0	*	1	2340	285	175.	1791.4	3209.1
1	0705	86	5530.	2075.2	3213.4	*	1	1525	186	179.	1912.1	3211.0	*	1	2345	286	175.	1790.2	3209.1
1	0710	87	4877.	2066.9	3213.3	*	1	1530	187	179.	1910.9	3211.0	*	1	2350	287	175.	1788.9	3209.1
1	0715	88	4283.	2059.3	3213.2	*	1	1535	188	179.	1909.7	3211.0	*	1	2355	288	175.	1787.7	3209.0
1	0720	89	3746.	2052.4	3213.1	*	1	1540	189	179.	1908.4	3211.0	*	2	0000	289	175.	1786.5	3209.0
1	0725	90	3265.	2046.3	3213.0	*	1	1545	190	179.	1907.2	3210.9	*	2	0005	290	175.	1785.3	3209.0
1	0730	91	2834.	2040.8	3213.0	*	1	1550	191	179.	1906.0	3210.9	*	2	0010	291	175.	1784.1	3209.0
1	0735	92	2451.	2035.9	3212.9	*	1	1555	192	179.	1904.7	3210.9	*	2	0015	292	175.	1782.9	3209.0
1	0740	93	2109.	2031.6	3212.8	*	1	1600	193	179.	1903.5	3210.9	*	2	0020	293	175.	1781.7	3208.9
1	0745	94	1807.	2027.7	3212.8	*	1	1605	194	179.	1902.3	3210.9	*	2	0025	294	175.	1780.5	3208.9
1	0750	95	1540.	2024.3	3212.7	*	1	1610	195	179.	1901.0	3210.8	*	2	0030	295	175.	1779.3	3208.9
1	0755	96	1307.	2021.3	3212.7	*	1	1615	196	179.	1899.8	3210.8	*	2	0035	296	175.	1778.1	3208.9
1	0800	97	1104.	2018.7	3212.7	*	1	1620	197	179.	1898.6	3210.8	*	2	0040	297	175.	1776.9	3208.9
1	0805	98	928.	2016.5	3212.6	*	1	1625	198	179.	1897.3	3210.8	*	2	0045	298	175.	1775.7	3208.9
1	0810	99	778.	2014.6	3212.6	*	1	1630	199	179.	1896.1	3210.8	*	2	0050	299	175.	1774.5	3208.8
1	0815	100	650.	2013.0	3212.6	*	1	1635	200	178.	1894.9	3210.7	*	2	0055	300	175.	1773.3	3208.8
						*							*						

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
	(CFS)				
+ 20319.	5.25	5493.	1490.	1435.	1435.
	(INCHES)	.933	1.012	1.012	1.012
	(AC-FT)	2724.	2955.	2955.	2955.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
2217.	5.25	2062.	1682.	1620.	1620.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3215.42	5.25	3213.27	3205.43	3203.79	3203.79

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .64

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE		DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE		DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	3161.0	*	1		0820	101	489.	2010.9	3212.6	*	1		1640	201	178.	1893.1	3210.7
1		0005	2	0.	.0	3161.0	*	1		0825	102	406.	2009.9	3212.5	*	1		1645	202	178.	1891.8	3210.7
1		0010	3	0.	.0	3161.0	*	1		0830	103	337.	2009.0	3212.5	*	1		1650	203	178.	1890.6	3210.7
1		0015	4	0.	.0	3161.0	*	1		0835	104	279.	2008.2	3212.5	*	1		1655	204	178.	1889.4	3210.7
1		0020	5	0.	.0	3161.0	*	1		0840	105	231.	2007.6	3212.5	*	1		1700	205	178.	1888.1	3210.6
1		0025	6	0.	.0	3161.0	*	1		0845	106	191.	2007.1	3212.5	*	1		1705	206	178.	1886.9	3210.6
1		0030	7	0.	.2	3161.0	*	1		0850	107	182.	2006.6	3212.5	*	1		1710	207	178.	1885.7	3210.6
1		0035	8	0.	.4	3161.0	*	1		0855	108	182.	2006.0	3212.5	*	1		1715	208	178.	1884.5	3210.6
1		0040	9	1.	.8	3161.1	*	1		0900	109	182.	2005.2	3212.5	*	1		1720	209	178.	1883.2	3210.6
1		0045	10	1.	1.2	3161.1	*	1		0905	110	182.	2004.4	3212.5	*	1		1725	210	178.	1882.0	3210.5
1		0050	11	2.	1.6	3161.2	*	1		0910	111	182.	2003.5	3212.4	*	1		1730	211	178.	1880.8	3210.5
1		0055	12	2.	2.0	3161.2	*	1		0915	112	182.	2002.5	3212.4	*	1		1735	212	178.	1879.6	3210.5
1		0100	13	3.	2.5	3161.3	*	1		0920	113	182.	2001.5	3212.4	*	1		1740	213	178.	1878.3	3210.5
1		0105	14	3.	3.1	3161.3	*	1		0925	114	182.	2000.4	3212.4	*	1		1745	214	178.	1877.1	3210.5
1		0110	15	4.	3.8	3161.4	*	1		0930	115	182.	1999.3	3212.4	*	1		1750	215	178.	1875.9	3210.4
1		0115	16	5.	4.7	3161.5	*	1		0935	116	182.	1998.2	3212.4	*	1		1755	216	178.	1874.7	3210.4
1		0120	17	6.	5.8	3161.6	*	1		0940	117	182.	1997.0	3212.3	*	1		1800	217	178.	1873.4	3210.4
1		0125	18	8.	7.3	3161.8	*	1		0945	118	182.	1995.8	3212.3	*	1		1805	218	178.	1872.2	3210.4
1		0130	19	10.	9.1	3162.0	*	1		0950	119	182.	1994.6	3212.3	*	1		1810	219	178.	1871.0	3210.4
1		0135	20	11.	11.4	3162.1	*	1		0955	120	182.	1993.4	3212.3	*	1		1815	220	178.	1869.8	3210.3
1		0140	21	13.	14.4	3162.3	*	1		1000	121	182.	1992.2	3212.3	*	1		1820	221	178.	1868.5	3210.3
1		0145	22	14.	17.9	3162.5	*	1		1005	122	182.	1990.9	3212.3	*	1		1825	222	178.	1867.3	3210.3
1		0150	23	16.	22.1	3162.7	*	1		1010	123	181.	1989.7	3212.2	*	1		1830	223	178.	1866.1	3210.3
1		0155	24	19.	27.0	3162.9	*	1		1015	124	181.	1988.5	3212.2	*	1		1835	224	178.	1864.9	3210.3
1		0200	25	21.	32.7	3163.2	*	1		1020	125	181.	1987.2	3212.2	*	1		1840	225	177.	1863.6	3210.2
1		0205	26	24.	39.2	3163.5	*	1		1025	126	181.	1986.0	3212.2	*	1		1845	226	177.	1862.4	3210.2
1		0210	27	28.	46.5	3163.9	*	1		1030	127	181.	1984.7	3212.2	*	1		1850	227	177.	1861.2	3210.2
1		0215	28	32.	54.7	3164.3	*	1		1035	128	181.	1983.5	3212.1	*	1		1855	228	177.	1860.0	3210.2
1		0220	29	36.	63.7	3164.8	*	1		1040	129	181.	1982.2	3212.1	*	1		1900	229	177.	1858.8	3210.2
1		0225	30	41.	73.4	3165.3	*	1		1045	130	181.	1981.0	3212.1	*	1		1905	230	177.	1857.5	3210.2
1		0230	31	46.	83.9	3165.8	*	1		1050	131	181.	1979.7	3212.1	*	1		1910	231	177.	1856.3	3210.1
1		0235	32	51.	95.4	3166.4	*	1		1055	132	181.	1978.5	3212.1	*	1		1915	232	177.	1855.1	3210.1
1		0240	33	57.	107.8	3167.0	*	1		1100	133	181.	1977.2	3212.0	*	1		1920	233	177.	1853.9	3210.1
1		0245	34	60.	121.3	3167.6	*	1		1105	134	181.	1976.0	3212.0	*	1		1925	234	177.	1852.6	3210.1
1		0250	35	62.	136.1	3168.2	*	1		1110	135	181.	1974.7	3212.0	*	1		1930	235	177.	1851.4	3210.1
1		0255	36	65.	152.1	3168.8	*	1		1115	136	181.	1973.5	3212.0	*	1		1935	236	177.	1850.2	3210.0
1		0300	37	69.	169.7	3169.5	*	1		1120	137	181.	1972.3	3212.0	*	1		1940	237	177.	1849.0	3210.0
1		0305	38	72.	188.9	3170.3	*	1		1125	138	181.	1971.0	3212.0	*	1		1945	238	177.	1847.8	3210.0
1		0310	39	76.	209.9	3171.1	*	1		1130	139	181.	1969.8	3211.9	*	1		1950	239	177.	1846.6	3210.0
1		0315	40	80.	233.0	3172.1	*	1		1135	140	181.	1968.5	3211.9	*	1		1955	240	177.	1845.3	3210.0
1		0320	41	84.	258.6	3173.0	*	1		1140	141	181.	1967.3	3211.9	*	1		2000	241	177.	1844.1	3209.9
1		0325	42	88.	287.2	3174.0	*	1		1145	142	181.	1966.0	3211.9	*	1		2005	242	177.	1842.9	3209.9
1		0330	43	92.	319.6	3175.1	*	1		1150	143	181.	1964.8	3211.9	*	1		2010	243	177.	1841.7	3209.9
1		0335	44	97.	356.6	3176.5	*	1		1155	144	181.	1963.5	3211.8	*	1		2015	244	177.	1840.5	3209.9
1		0340	45	101.	397.8	3177.8	*	1		1200	145	181.	1962.3	3211.8	*	1		2020	245	177.	1839.2	3209.9
1		0345	46	106.	441.7	3179.2	*	1		1205	146	181.	1961.1	3211.8	*	1		2025	246	177.	1838.0	3209.8
1		0350	47	110.	488.8	3180.7	*	1		1210	147	181.	1959.8	3211.8	*	1		2030	247	177.	1836.8	3209.8
1		0355	48	115.	540.5	3182.3	*	1		1215	148	181.	1958.6	3211.8	*	1		2035	248	177.	1835.6	3209.8
1		0400	49	120.	598.2	3184.0	*	1		1220	149	180.	1957.3	3211.7	*	1		2040	249	177.	1834.4	3209.8
1		0405	50	125.	662.4	3185.8	*	1		1225	150	180.	1956.1	3211.7	*	1		2045	250	177.	1833.2	3209.8
1		0410	51	130.	733.4	3187.7	*	1		1230	151	180.	1954.8	3211.7	*	1		2050	251	176.	1831.9	3209.7
1		0415	52	134.	811.8	3189.7	*	1		1235	152	180.	1953.6	3211.7	*	1		2055	252	176.	1830.7	3209.7
1		0420	53	140.	898.3	3191.9	*	1		1240	153	180.	1952.4	3211.7	*	1		2100	253	176.	1829.5	3209.7
1		0425	54	144.	993.0	3194.0	*	1		1245	154	180.	1951.1	3211.6	*	1		2105	254	176.	1828.3	3209.7
1		0430	55	150.	1096.2	3196.4	*	1		1250	155	180.	1949.9	3211.6	*	1		2110	255	176.	1827.1	3209.7
1		0435	56	155.	1207.8	3198.6	*	1		1255	156	180.	1948.6	3211.6	*	1		2115	256	176.	1825.9	3209.6
1		0440	57	160.	1327.4	3201.0	*	1		1300	157	180.	1947.4	3211.6	*	1		2120	257	176.	1824.7	3209.6
1		0445	58	164.	1453.8	3203.4	*	1		1305	158	180.	1946.1	3211.6	*	1		2125	258	176.	1823.4	3209.6
1		0450	59	169.	1585.6	3205.7	*	1		1310	159	180.	1944.9	3211.5	*	1		2130	259	176.	1822.2	3209.6
1		0455	60	173.	1720.7	3208.0	*	1		1315	160	180.	1943.7	3211.5	*	1		2135	260	176.	1821.0	3209.6
1		0500	61	177.	1856.7	3210.1	*	1		1320	161	180.	1942.4	3211.5	*	1		2140	261	176.	1819.8	3209.6
1		0505	62	182.	1991.2	3212.3	*	1		1325	162	180.	1941.2	3211.5	*	1		2145	262	176.	1818.6	3209.5
1		0510	63	7318.	2098.0	3213.8	*	1		1330	163	180.	1939.9	3211.5	*	1		2150	263	176.	1817.4	3209.5
1		0515	64	13263.	2155.4	3214.6	*	1		1335	164	180.	1938.7	3211.4	*	1		2155	264	176.	1816.2	3209.5
1		0520	65	15894.	2178.5	3214.9	*	1		1340	165	180.	1937.5	3211.4	*	1		2200	265	176.	1815.0	3209.5
1		0525	66	16621.	2184.9	3215.0	*	1		1345	166	180.	1936.2	3211.4	*	1		2205	266	176.	1813.7	3209.5
1		0530	67	16519.	2184.0	3215.0	*	1		1350	167	180.	1935.0	3211.4	*	1		2210	267	176.	1812.5	3209.4
1		0535	68	16077.	2180.1	3214.9	*	1		1355	168	180.	1933.8	3211.4	*	1		2215	268	176.	1811.3	3209.4
1		0540	69	15524.	2175.3	3214.8	*	1		1400	169	180.	1932.5	3211.3	*	1		2220	269	176.	1810.1	3209.4
1		0545	70	14966.	2170.4	3214.8	*	1		1405	170	180.	1931.3	3211.3	*	1		2225	270	176.	1808.9	3209.4
1		0550	71	14450.	2165.9	3214.7	*	1		1410	171	180.	1930.0	3211.3	*	1		2230	271	176.	1807.7	3209.4
1		0555	72	13984.	2161.8	3214.6	*	1		1415	172	180.	1928.8	3211.3	*	1		2235	272	176.	1806.5	3209.3
1		0600	73	13548.	2157.9	3214.6	*	1		1420	173	180.	1927.6	3211.3	*	1		2240	273	176.	1805.3	3209.3
1		0605	74	13112.	2154.1	3214.5	*	1		1425	174	179.	1926.3	3211.2	*	1		2245	274	176.	1804.1	3209.3
1		0610	75	12640.	2150.0	3214.5	*	1		1430	175	179.	1925.1	3211.2	*	1		2250	275	176.	1802.9	3209.3
1		0615	76	12106.	2145.3	3214.4	*	1		1435	176	179.	1923.9	3211.2	*	1		2255	276	176.	1801.6	3209.3
1		0620	77	11492.	2139.9	3214.3	*	1		1440	177	179.	1922.6	3211.2	*	1		2300	277	175.	1800.4	3209.2
1		0625	78	10797.	2133.8	3214.3	*	1		1445	178	179.	1921.4	3211.2	*	1		2305	278	175.	1799.2	3209.2
1		0630	79	10031.	2127.1	3214.2	*	1		1450	179	179.	1920.2	3211.1	*	1		2310	279	175.	1798.0	3209.2
1		0635	80	9215.	2119.9	3214.1	*	1		1455	180	179.	1918.9	3211.1	*	1		2315	280	175.	1796.8	3209.2
1		0640	81	8442.	2112.3	3214.0	*	1		1500	181	179.	1

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0700	85	5651.	2076.7	3213.5	1		1520	185	179.	1912.8	3211.0	1		2340	285	175.	1790.8	3209.1
1		0705	86	5002.	2068.4	3213.4	1		1525	186	179.	1911.5	3211.0	1		2345	286	175.	1789.6	3209.1
1		0710	87	4407.	2060.9	3213.2	1		1530	187	179.	1910.3	3211.0	1		2350	287	175.	1788.4	3209.1
1		0715	88	3867.	2054.0	3213.2	1		1535	188	179.	1909.1	3211.0	1		2355	288	175.	1787.2	3209.0
1		0720	89	3381.	2047.8	3213.1	1		1540	189	179.	1907.8	3210.9	2		0000	289	175.	1785.9	3209.0
1		0725	90	2946.	2042.2	3213.0	1		1545	190	179.	1906.6	3210.9	2		0005	290	175.	1784.7	3209.0
1		0730	91	2557.	2037.3	3212.9	1		1550	191	179.	1905.4	3210.9	2		0010	291	175.	1783.5	3209.0
1		0735	92	2211.	2032.9	3212.9	1		1555	192	179.	1904.1	3210.9	2		0015	292	175.	1782.3	3209.0
1		0740	93	1903.	2028.9	3212.8	1		1600	193	179.	1902.9	3210.9	2		0020	293	175.	1781.1	3208.9
1		0745	94	1630.	2025.5	3212.8	1		1605	194	179.	1901.7	3210.9	2		0025	294	175.	1779.9	3208.9
1		0750	95	1390.	2022.4	3212.7	1		1610	195	179.	1900.4	3210.8	2		0030	295	175.	1778.7	3208.9
1		0755	96	1179.	2019.7	3212.7	1		1615	196	179.	1899.2	3210.8	2		0035	296	175.	1777.5	3208.9
1		0800	97	996.	2017.4	3212.6	1		1620	197	179.	1898.0	3210.8	2		0040	297	175.	1776.3	3208.9
1		0805	98	838.	2015.4	3212.6	1		1625	198	179.	1896.7	3210.8	2		0045	298	175.	1775.1	3208.8
1		0810	99	702.	2013.6	3212.6	1		1630	199	179.	1895.5	3210.8	2		0050	299	175.	1773.9	3208.8
1		0815	100	586.	2012.2	3212.6	1		1635	200	178.	1894.3	3210.7	2		0055	300	175.	1772.7	3208.8

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 16621.	5.42		4353.	1204.	1160.	1160.
		(INCHES)	.740	.818	.818	.818
		(AC-FT)	2159.	2388.	2388.	2388.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
2185.	5.42	2050.	1665.	1604.	1604.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3214.97	5.42	3213.09	3205.03	3203.41	3203.41

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .58

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	3161.0	1		0820	101	431.	2010.2	3212.5	1		1640	201	178.	1892.3	3210.7
1		0005	2	0.	.0	3161.0	1		0825	102	358.	2009.2	3212.5	1		1645	202	178.	1891.1	3210.7
1		0010	3	0.	.0	3161.0	1		0830	103	297.	2008.5	3212.5	1		1650	203	178.	1889.9	3210.7
1		0015	4	0.	.0	3161.0	1		0835	104	246.	2007.8	3212.5	1		1655	204	178.	1888.6	3210.6
1		0020	5	0.	.0	3161.0	1		0840	105	204.	2007.3	3212.5	1		1700	205	178.	1887.4	3210.6
1		0025	6	0.	.0	3161.0	1		0845	106	182.	2006.8	3212.5	1		1705	206	178.	1886.2	3210.6
1		0030	7	0.	.1	3161.0	1		0850	107	182.	2006.2	3212.5	1		1710	207	178.	1884.9	3210.6
1		0035	8	0.	.3	3161.0	1		0855	108	182.	2005.5	3212.5	1		1715	208	178.	1883.7	3210.6
1		0040	9	1.	.5	3161.1	1		0900	109	182.	2004.7	3212.5	1		1720	209	178.	1882.5	3210.5
1		0045	10	1.	.7	3161.1	1		0905	110	182.	2003.8	3212.5	1		1725	210	178.	1881.3	3210.5
1		0050	11	1.	1.0	3161.1	1		0910	111	182.	2002.9	3212.4	1		1730	211	178.	1880.0	3210.5
1		0055	12	1.	1.3	3161.1	1		0915	112	182.	2001.9	3212.4	1		1735	212	178.	1878.8	3210.5
1		0100	13	2.	1.5	3161.2	1		0920	113	182.	2000.8	3212.4	1		1740	213	178.	1877.6	3210.5
1		0105	14	2.	1.9	3161.2	1		0925	114	182.	1999.7	3212.4	1		1745	214	178.	1876.4	3210.5
1		0110	15	3.	2.3	3161.3	1		0930	115	182.	1998.6	3212.4	1		1750	215	178.	1875.1	3210.4
1		0115	16	3.	2.8	3161.3	1		0935	116	182.	1997.4	3212.4	1		1755	216	178.	1873.9	3210.4
1		0120	17	4.	3.4	3161.4	1		0940	117	182.	1996.3	3212.3	1		1800	217	178.	1872.7	3210.4
1		0125	18	5.	4.2	3161.5	1		0945	118	182.	1995.1	3212.3	1		1805	218	178.	1871.5	3210.4
1		0130	19	6.	5.3	3161.6	1		0950	119	182.	1993.8	3212.3	1		1810	219	178.	1870.2	3210.4
1		0135	20	7.	6.7	3161.7	1		0955	120	182.	1992.6	3212.3	1		1815	220	178.	1869.0	3210.3
1		0140	21	9.	8.5	3161.9	1		1000	121	182.	1991.4	3212.3	1		1820	221	178.	1867.8	3210.3
1		0145	22	11.	10.7	3162.1	1		1005	122	181.	1990.2	3212.2	1		1825	222	178.	1866.6	3210.3
1		0150	23	12.	13.4	3162.2	1		1010	123	181.	1988.9	3212.2	1		1830	223	178.	1865.3	3210.3
1		0155	24	14.	16.5	3162.4	1		1015	124	181.	1987.7	3212.2	1		1835	224	178.	1864.1	3210.3
1		0200	25	15.	20.2	3162.6	1		1020	125	181.	1986.5	3212.2	1		1840	225	177.	1862.9	3210.2
1		0205	26	17.	24.5	3162.8	1		1025	126	181.	1985.2	3212.2	1		1845	226	177.	1861.7	3210.2
1		0210	27	20.	29.5	3163.0	1		1030	127	181.	1984.0	3212.2	1		1850	227	177.	1860.5	3210.2
1		0215	28	23.	35.2	3163.3	1		1035	128	181.	1982.7	3212.1	1		1855	228	177.	1859.2	3210.2
1		0220	29	26.	41.5	3163.7	1		1040	129	181.	1981.5	3212.1	1		1900	229	177.	1858.0	3210.2
1		0225	30	29.	48.4	3164.0	1		1045	130	181.	1980.2	3212.1	1		1905	230	177.	1856.8	3210.1
1		0230	31	33.	56.0	3164.4	1		1050	131	181.	1979.0	3212.1	1		1910	231	177.	1855.6	3210.1
1		0235	32	37.	64.4	3164.8	1		1055	132	181.	1977.7	3212.1	1		1915	232	177.	1854.3	3210.1
1		0240	33	41.	73.6	3165.3	1		1100	133	181.	1976.5	3212.0	1		1920	233	177.	1853.1	3210.1
1		0245	34	46.	83.8	3165.8	1		1105	134	181.	1975.2	3212.0	1		1925	234	177.	1851.9	3210.1
1		0250	35	51.	95.0	3166.4	1		1110	135	181.	1974.0	3212.0	1		1930	235	177.	1850.7	3210.0
1		0255	36	57.	107.2	3167.0	1		1115	136	181.	1972.7	3212.0	1		1935	236	177.	1849.5	3210.0
1		0300	37	60.	120.8	3167.6	1		1120	137	181.	1971.5	3212.0	1		1940	237	177.	1848.3	3210.0
1		0305	38	62.	135.7	3168.2	1		1125	138	181.	1970.3	3211.9	1		1945	238	177.	1847.0	3210.0
1		0310	39	65.	152.2	3168.8	1		1130	139	181.	1969.0	3211.9	1		1950	239	177.	1845.8	3210.0
1		0315	40	69.	170.5	3169.6	1		1135	140	181.	1967.8	3211.9	1		1955	240	177.	1844.6	3209.9
1		0320	41	73.	190.9	3170.4	1		1140	141	181.	1966.5	3211.9	1		2000	241	177.	1843.4	3209.9
1		0325	42	77.	213.9	3171.3	1		1145	142	181.	1965.3	3211.9	1		2005	242	177.	1842.2	3209.9
1		0330	43	81.	240.2	3172.3	1		1150	143	181.	1964.0	3211.8	1		2010	243	177.	1840.9	3209.9
1		0335	44	85.	270.6	3173.4	1		1155	144	181.	1962.8	3211.8	1		2015	244	177.	1839.7	3209.9
1		0340	45	90.	304.5	3174.6	1		1200	145	181.	1961.5	3211.8	1		2020	245	177.	1838.5	3209.8

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0345	46	95.	340.8	3175.9	1		1205	146	181.	1960.3	3211.8	1		2025	246	177.	1837.3	3209.8
1		0350	47	100.	379.9	3177.3	1		1210	147	181.	1959.1	3211.8	1		2030	247	177.	1836.1	3209.8
1		0355	48	104.	422.9	3178.6	1		1215	148	180.	1957.8	3211.7	1		2035	248	177.	1834.9	3209.8
1		0400	49	108.	471.1	3180.2	1		1220	149	180.	1956.6	3211.7	1		2040	249	177.	1833.6	3209.8
1		0405	50	114.	524.9	3181.9	1		1225	150	180.	1955.3	3211.7	1		2045	250	177.	1832.4	3209.8
1		0410	51	118.	584.7	3183.6	1		1230	151	180.	1954.1	3211.7	1		2050	251	176.	1831.2	3209.7
1		0415	52	124.	650.9	3185.5	1		1235	152	180.	1952.8	3211.7	1		2055	252	176.	1830.0	3209.7
1		0420	53	129.	724.0	3187.5	1		1240	153	180.	1951.6	3211.6	1		2100	253	176.	1828.8	3209.7
1		0425	54	134.	804.4	3189.5	1		1245	154	180.	1950.4	3211.6	1		2105	254	176.	1827.6	3209.7
1		0430	55	139.	892.2	3191.7	1		1250	155	180.	1949.1	3211.6	1		2110	255	176.	1826.4	3209.7
1		0435	56	144.	987.3	3193.9	1		1255	156	180.	1947.9	3211.6	1		2115	256	176.	1825.1	3209.6
1		0440	57	149.	1089.5	3196.2	1		1300	157	180.	1946.6	3211.6	1		2120	257	176.	1823.9	3209.6
1		0445	58	154.	1197.8	3198.4	1		1305	158	180.	1945.4	3211.5	1		2125	258	176.	1822.7	3209.6
1		0450	59	159.	1310.8	3200.7	1		1310	159	180.	1944.2	3211.5	1		2130	259	176.	1821.5	3209.6
1		0455	60	164.	1426.9	3202.9	1		1315	160	180.	1942.9	3211.5	1		2135	260	176.	1820.3	3209.6
1		0500	61	167.	1544.0	3205.0	1		1320	161	180.	1941.7	3211.5	1		2140	261	176.	1819.1	3209.5
1		0505	62	171.	1660.0	3207.0	1		1325	162	180.	1940.4	3211.5	1		2145	262	176.	1817.9	3209.5
1		0510	63	175.	1773.3	3208.8	1		1330	163	180.	1939.2	3211.4	1		2150	263	176.	1816.6	3209.5
1		0515	64	178.	1883.1	3210.6	1		1335	164	180.	1938.0	3211.4	1		2155	264	176.	1815.4	3209.5
1		0520	65	181.	1988.9	3212.2	1		1340	165	180.	1936.7	3211.4	1		2200	265	176.	1814.2	3209.5
1		0525	66	5327.	2072.6	3213.4	1		1345	166	180.	1935.5	3211.4	1		2205	266	176.	1813.0	3209.4
1		0530	67	9292.	2120.6	3214.1	1		1350	167	180.	1934.2	3211.4	1		2210	267	176.	1811.8	3209.4
1		0535	68	11769.	2142.3	3214.4	1		1355	168	180.	1933.0	3211.3	1		2215	268	176.	1810.6	3209.4
1		0540	69	12545.	2149.1	3214.5	1		1400	169	180.	1931.8	3211.3	1		2220	269	176.	1809.4	3209.4
1		0545	70	12618.	2149.8	3214.5	1		1405	170	180.	1930.5	3211.3	1		2225	270	176.	1808.2	3209.4
1		0550	71	12420.	2148.0	3214.5	1		1410	171	180.	1929.3	3211.3	1		2230	271	176.	1807.0	3209.3
1		0555	72	12130.	2145.5	3214.4	1		1415	172	180.	1928.1	3211.3	1		2235	272	176.	1805.7	3209.3
1		0600	73	11807.	2142.7	3214.4	1		1420	173	180.	1926.8	3211.3	1		2240	273	176.	1804.5	3209.3
1		0605	74	11457.	2139.6	3214.3	1		1425	174	179.	1925.6	3211.2	1		2245	274	176.	1803.3	3209.3
1		0610	75	11063.	2136.1	3214.3	1		1430	175	179.	1924.3	3211.2	1		2250	275	176.	1802.1	3209.3
1		0615	76	10607.	2132.1	3214.2	1		1435	176	179.	1923.1	3211.2	1		2255	276	176.	1800.9	3209.3
1		0620	77	10078.	2127.5	3214.2	1		1440	177	179.	1921.9	3211.2	1		2300	277	175.	1799.7	3209.2
1		0625	78	9476.	2122.2	3214.1	1		1445	178	179.	1920.6	3211.2	1		2305	278	175.	1798.5	3209.2
1		0630	79	8809.	2116.4	3214.0	1		1450	179	179.	1919.4	3211.1	1		2310	279	175.	1797.3	3209.2
1		0635	80	8233.	2109.6	3213.9	1		1455	180	179.	1918.2	3211.1	1		2315	280	175.	1796.1	3209.2
1		0640	81	7619.	2101.8	3213.8	1		1500	181	179.	1916.9	3211.1	1		2320	281	175.	1794.9	3209.2
1		0645	82	6955.	2093.3	3213.7	1		1505	182	179.	1915.7	3211.1	1		2325	282	175.	1793.7	3209.1
1		0650	83	6278.	2084.7	3213.6	1		1510	183	179.	1914.5	3211.1	1		2330	283	175.	1792.5	3209.1
1		0655	84	5618.	2076.3	3213.5	1		1515	184	179.	1913.2	3211.0	1		2335	284	175.	1791.2	3209.1
1		0700	85	4994.	2068.3	3213.4	1		1520	185	179.	1912.0	3211.0	1		2340	285	175.	1790.0	3209.1
1		0705	86	4415.	2061.0	3213.2	1		1525	186	179.	1910.8	3211.0	1		2345	286	175.	1788.8	3209.1
1		0710	87	3887.	2054.2	3213.2	1		1530	187	179.	1909.5	3211.0	1		2350	287	175.	1787.6	3209.0
1		0715	88	3409.	2048.1	3213.1	1		1535	188	179.	1908.3	3211.0	1		2355	288	175.	1786.4	3209.0
1		0720	89	2980.	2042.7	3213.0	1		1540	189	179.	1907.1	3210.9	2		0000	289	175.	1785.2	3209.0
1		0725	90	2597.	2037.8	3212.9	1		1545	190	179.	1905.8	3210.9	2		0005	290	175.	1784.0	3209.0
1		0730	91	2254.	2033.4	3212.9	1		1550	191	179.	1904.6	3210.9	2		0010	291	175.	1782.8	3209.0
1		0735	92	1949.	2029.5	3212.8	1		1555	192	179.	1903.4	3210.9	2		0015	292	175.	1781.6	3208.9
1		0740	93	1678.	2026.1	3212.8	1		1600	193	179.	1902.1	3210.9	2		0020	293	175.	1780.4	3208.9
1		0745	94	1438.	2023.0	3212.7	1		1605	194	179.	1900.9	3210.8	2		0025	294	175.	1779.2	3208.9
1		0750	95	1226.	2020.3	3212.7	1		1610	195	179.	1899.7	3210.8	2		0030	295	175.	1778.0	3208.9
1		0755	96	1040.	2017.9	3212.7	1		1615	196	179.	1898.5	3210.8	2		0035	296	175.	1776.8	3208.9
1		0800	97	879.	2015.9	3212.6	1		1620	197	179.	1897.2	3210.8	2		0040	297	175.	1775.6	3208.9
1		0805	98	739.	2014.1	3212.6	1		1625	198	179.	1896.0	3210.8	2		0045	298	175.	1774.4	3208.8
1		0810	99	619.	2012.6	3212.6	1		1630	199	178.	1894.8	3210.7	2		0050	299	175.	1773.2	3208.8
1		0815	100	517.	2011.3	3212.6	1		1635	200	178.	1893.5	3210.7	2		0055	300	175.	1772.0	3208.8

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 12618.	5.75		3140.	899.	866.	866.
		(INCHES)	.533	.611	.611	.611
		(AC-FT)	1557.	1783.	1783.	1783.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
2150.	5.75	2036.	1645.	1585.	1585.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3214.48	5.75	3212.89	3204.54	3202.94	3202.94

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .53

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	3161.0	1		0820	101	383.	2009.6	3212.5	1		1640	201	178.	1891.6	3210.7
1		0005	2	0.	.0	3161.0	1		0825	102	319.	2008.7	3212.5	1		1645	202	178.	1890.4	3210.7
1		0010	3	0.	.0	3161.0	1		0830	103	265.	2008.1	3212.5	1		1650	203	178.	1889.2	3210.7
1		0015	4	0.	.0	3161.0	1		0835	104	219.	2007.5	3212.5	1		1655	204	178.	1888.0	3210.6
1		0020	5	0.	.0	3161.0	1		0840	105	182.	2007.0	3212.5	1		1700	205	178.	1886.7	3210.6
1		0025	6	0.	.0	3161.0	1		0845	106	182.	2006.5	3212.5	1		1705	206	178.	1885.5	3210.6

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HYDROGRAPH AT												
+	104A	3.39	1	FLOW	1386.	1308.	1201.	1092.	1012.	868.	715.	593.
				TIME	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25
3 COMBINED AT												
+	C104A	47.87	1	FLOW	26160.	24949.	23276.	21573.	20301.	17984.	15483.	13429.
				TIME	4.92	4.92	5.00	5.00	5.00	5.00	5.00	5.00
HYDROGRAPH AT												
+	RD1	.43	1	FLOW	450.	429.	400.	370.	348.	307.	264.	228.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
ROUTED TO												
+	R-RD1	.43	1	FLOW	429.	411.	383.	354.	334.	296.	254.	221.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT												
+	RD2	.47	1	FLOW	581.	557.	524.	490.	465.	418.	367.	325.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT												
+	CRD2	.90	1	FLOW	997.	953.	896.	830.	787.	697.	605.	530.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
ROUTED TO												
+	RCRD2	.90	1	FLOW	946.	901.	844.	783.	749.	665.	583.	509.
				TIME	3.58	3.58	3.58	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT												
+	RD3	.33	1	FLOW	387.	371.	348.	325.	307.	275.	241.	212.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT												
+	CRD3	1.23	1	FLOW	1332.	1271.	1192.	1106.	1048.	930.	807.	706.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT												
+	RR14A	4.60	1	FLOW	2629.	2505.	2333.	2158.	2028.	1791.	1537.	1329.
				TIME	4.08	4.08	4.08	4.08	4.17	4.17	4.17	4.17
ROUTED TO												
+	R-RR14A	4.60	1	FLOW	2624.	2501.	2331.	2156.	2026.	1790.	1535.	1326.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
HYDROGRAPH AT												
+	RD4	.40	1	FLOW	412.	392.	365.	336.	315.	277.	236.	202.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT												
+	CRD4	5.00	1	FLOW	2730.	2601.	2422.	2240.	2104.	1856.	1590.	1374.
				TIME	4.08	4.08	4.08	4.08	4.08	4.08	4.17	4.17
ROUTED TO												
+	RCRD4	5.00	1	FLOW	2719.	2591.	2414.	2234.	2099.	1854.	1589.	1373.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
HYDROGRAPH AT												
+	RD5	.37	1	FLOW	393.	374.	349.	322.	303.	267.	229.	197.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT												
+	CRD5	5.37	1	FLOW	2821.	2687.	2502.	2313.	2172.	1915.	1639.	1415.
				TIME	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.17
ROUTED TO												
+	RCRD5	5.37	1	FLOW	2812.	2680.	2494.	2305.	2166.	1916.	1642.	1414.
				TIME	4.08	4.08	4.08	4.17	4.17	4.17	4.17	4.17
HYDROGRAPH AT												
+	RD6	.25	1	FLOW	294.	281.	264.	246.	233.	208.	182.	160.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT												
+	CRD6	5.62	1	FLOW	2885.	2750.	2560.	2365.	2222.	1961.	1678.	1446.
				TIME	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.17
3 COMBINED AT												
+	INRR	54.73	1	FLOW	29005.	27675.	25823.	23934.	22522.	19953.	17178.	14904.
				TIME	4.92	4.92	4.92	4.92	4.92	4.92	4.92	5.00
ROUTED TO												
+	RRDB	54.73	1	FLOW	28314.	26822.	24625.	22192.	20319.	16621.	12618.	9751.
				TIME	5.08	5.08	5.17	5.25	5.25	5.42	5.75	6.08
				** PEAK STAGES IN FEET **								
			1	STAGE	3216.40	3216.21	3215.95	3215.65	3215.42	3214.97	3214.48	3214.13
				TIME	5.08	5.08	5.17	5.25	5.25	5.42	5.75	6.08
DIVERSION TO												
+	*D-RROUT	54.73	1	FLOW	28132.	26640.	24443.	22010.	20137.	16439.	12436.	9569.
				TIME	5.08	5.08	5.17	5.25	5.25	5.42	5.75	6.08
HYDROGRAPH AT												
+	*DOUTRR	54.73	1	FLOW	182.	182.	182.	182.	182.	182.	182.	182.
				TIME	4.67	5.33	4.75	4.92	5.00	5.17	5.42	5.67
ROUTED TO												
+	ROUTRR	54.73	1	FLOW	182.	182.	182.	182.	182.	182.	182.	182.
				TIME	4.75	4.83	4.92	5.00	5.08	5.25	5.50	5.83
HYDROGRAPH AT												
+	R3A	.19	1	FLOW	188.	178.	165.	151.	141.	123.	104.	88.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
2 COMBINED AT												
+	CR3A	54.92	1	FLOW	306.	292.	273.	255.	247.	231.	212.	195.
				TIME	3.50	3.50	3.50	4.83	4.83	4.83	4.83	4.83
ROUTED TO												
+	RCR3A	54.92	1	FLOW	298.	285.	268.	252.	243.	228.	209.	193.
				TIME	3.58	3.67	3.67	4.92	4.92	4.92	4.92	5.00

1

*** NORMAL END OF HEC-1 ***

B.3.19 500-year_FLAM3A

```
1****************************************
 *                                      *
 *   FLOOD HYDROGRAPH PACKAGE  (HEC-1)  *
 *              JUN   1998              *
 *           VERSION 4.1                *
 *                                      *
 *  RUN DATE   20MAY20  TIME  10:09:35  *
 *                                      *
 ****************************************
```

```
****************************************
*                                      *
*    U.S. ARMY CORPS OF ENGINEERS      *
*    HYDROLOGIC ENGINEERING CENTER     *
*          609 SECOND STREET           *
*       DAVIS, CALIFORNIA 95616        *
*            (916) 756-1104            *
*                                      *
****************************************
```

```
X     X  XXXXXXX   XXXXX          X
X     X  X        X     X        XX
X     X  X        X              X
XXXXXXX  XXXX     X        XXXXX  X
X     X  X        X              X
X     X  X        X     X        X
X     X  XXXXXXX   XXXXX         XXX
```

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL   LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM


```
          LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
                    *DIAGRAM
 *** FREE ***
               1    ID   RED ROCK TRAIL TO FY19-87
               2    ID   US FEDERAL HIGHWAY ADMINISTRATION
               3    ID   PN WXXY4000
               4    ID
               5    ID   HEC-1 MODEL TAKEN FROM CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT
               6    ID   2018 MASTER PLAN UPDATE
               7    ID   FLAMINGO / TROPICANA WASHES WATERSHED
               8    ID   RECOMMENDED DRAINAGE SYSTEM WITH ULTIMATE DEVELOPMENT
               9    ID   INPUT FILE = FLAM3A.DAT
              10    ID   INPUT FILE DATE = MAY 2020
              11    ID
              12    ID   PRECIPITATION VALUES CREATED FROM LOGRITHMIC TRENDLINE FOR 2-YEAR THROUGH
              13    ID   100-YEAR ISOPLUVIALS MAPS FROM NOAA ATLAS 2 THAT HAVE BEEN ADJUSTED PER
              14    ID   CCRFCD HYDRAULIC CRITERIA & DRAINAGE DESIGN MANUAL TABLE 501
              15    ID
              16    ID   DESIGN STORM = 500-YEAR, 6-HOUR STORM
              17    ID   STORM DISTRIBUTION = SDN3
              18    ID   STORM CENTERING = SERIES A: REGIONAL DETENTION BASIN FLOWS NOT DIVERTED OUT
              19    ID   MODELED BY JACOBS (DAVE BERGH, PE)
              20    ID
              21    ID   JR CARDS CONTAIN DARFS BASED ON THE FOLLOWING VALUES:
              22    ID
              23    ID         AREA    DARF
              24    ID         SQ.MI.
              25    ID                 SDN 3   SDN 4   SDN 5
              26    ID         0 - 0.5 0.990
              27    ID         0.5 - 1 0.975
              28    ID         1 - 2   0.950
              29    ID         2 - 3   0.925
              30    ID         3 - 4   0.915
              31    ID         4 - 5   0.908
              32    ID         5 - 6   0.903
              33    ID         6 - 7   0.895
              34    ID         7 - 8   0.885
              35    ID         8 - 9           0.875
              36    ID         9 - 10          0.865
              37    ID         10 - 11         0.857
              38    ID         11 - 12         0.850
              39    ID         12 - 16                 0.832
              40    ID         16 - 20                 0.804
              41    ID         20 - 30                 0.765
              42    ID         30 - 40                 0.725
              43    ID         40 - 50                 0.695
              44    ID         50 - 100                0.640
              45    ID         100 - 150               0.580
              46    ID         150 - 200               0.530
              47    ID
              48    IT      5       0       0     300
              49    IO      5       0       0
              50    IN      5       0       0
              51    JR    PREC    0.99   0.975    0.95   0.925   0.915   0.908   0.903   0.895   0.885
                    *
```



```
          LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
              52    KK     RR1
              53    BA   4.225
              54    PB    5.25
              55    PC   0.000   0.020   0.057   0.070   0.087   0.108   0.124   0.130   0.130   0.130
              56    PC   0.130   0.130   0.130   0.133   0.140   0.142   0.148   0.158   0.172   0.181
              57    PC   0.190   0.197   0.199   0.200   0.201   0.204   0.214   0.229   0.241   0.249
              58    PC   0.251   0.256   0.270   0.278   0.281   0.283   0.295   0.322   0.352   0.409
              59    PC   0.499   0.590   0.710   0.744   0.781   0.812   0.819   0.835   0.851   0.856
              60    PC   0.860   0.868   0.876   0.888   0.910   0.926   0.937   0.950   0.970   0.976
              61    PC   0.982   0.985   0.987   0.989   0.990   0.993   0.993   0.994   0.995   0.998
              62    PC   0.998   0.999   1.000
              63    LS       0    85.8
              64    UD   0.443
                    *
              65    KK     RR2
              66    BA   3.547
              67    PB    5.31
              68    LS       0    86.2
              69    UD   0.545
                    *
              70    KK    RRR2
              71    KM   MUSKINGUM ROUTING UNSTABLE - USED MUSKINGUM-CUNGE
              72    KM   NATURAL WASH
              73    RD    1700   0.076    0.04       0    TRAP     100       2
                    *
              74    KK    CRR2
              75    KM   COMBINE RR1 AND RRR2
              76    HC       2
                    *
              77    KK   RCRR2
              78    KM   ROUTE CRR2 TO CRR3
              79    KM   NATURAL WASH
              80    KM   TRAVEL LENGTH = 15850
              81    KM   SLOPE = 0.043
              82    KM   N = 0.04
              83    KM   HYDRAULIC RADIUS = 1.5
              84    KM   VELOCITY = 16.2
              85    RM       3   0.272    0.15
                    *
              86    KK     RR5
              87    BA   7.132
              88    PB    4.98
              89    LS       0    87.9
              90    UD   0.615
                    *
```



```
          LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
              91    KK   R-RR5
              92    KM   ROUTE RR5 THROUGH RR3 TO CRR3
              93    KM   NATURAL WASH
              94    KM   TRAVEL LENGTH = 10700
              95    KM   SLOPE = 0.037
              96    KM   N = 0.04
              97    KM   HYDRAULIC RADIUS = 1.5
              98    KM   VELOCITY = 15
              99    RM       2   0.198    0.15
                    *
             100    KK     RR3
             101    BA  14.983
             102    PB    4.88
             103    LS       0      87
             104    UD   0.761
                    *
             105    KK    CRR3
             106    KM   COMBINE RCRR2, R-RR5, AND RR3
             107    HC       3
                    *
             108    KK   RCRR3
             109    KM   ROUTE CRR3 THROUGH RR10 TO CRR10
             110    KM   NATURAL WASH
             111    KM   TRAVEL LENGTH = 20700
             112    KM   SLOPE = 0.025
             113    KM   N = 0.04
             114    KM   HYDRAULIC RADIUS = 1.5
             115    KM   VELOCITY = 12.3
             116    RM       6   0.466    0.15
                    *
             117    KK    RR10
             118    BA   8.775
```

```
 119          PB    4.43
 120          LS       0    86.1
 121          UD   0.882
              *

 122          KK   CRR10
 123          KM   COMBINE RCRR3 AND RR10
 124          HC       2
              *

 125          KK  RCRR10
 126          KM   ROUTE CRR10 THROUGH 104A TO C104A (RED ROCK DETENTION BASIN)
 127          KM   NATURAL WASH
 128          KM   TRAVEL LENGTH = 14500
 129          KM   SLOPE = 0.021
 130          KM   N = 0.04
 131          KM   HYDRAULIC RADIUS = 1.5
 132          KM   VELOCITY = 11.3
1                                   HEC-1 INPUT                                    PAGE  4

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 133          RM       4   0.356    0.15
              *

 134          KK   RR12A
 135          BA   5.821
 136          PB    4.55
 137          LS       0    87.6
 138          UD   0.728
              *

 139          KK R-RR12A
 140          KM   ROUTE RR12A THROUGH 104A TO C104A (RED ROCK DETENTION BASIN)
 141          KM   NATURAL WASH
 142          KM   TRAVEL LENGTH = 12000
 143          KM   SLOPE = 0.026
 144          KM   N = 0.04
 145          KM   HYDRAULIC RADIUS = 1.5
 146          KM   VELOCITY = 12.6
 147          RM       3   0.265    0.15
              *

 148          KK    104A
 149          BA   3.391
 150          PB    4.33
 151          LS       0    81.3
 152          UD   0.801
              *

 153          KK   C104A
 154          KM   COMBINE RCRR10, R-RR12A, AND 104A
 155          HC       3
              *

 156          KK     RD1
 157          BA   0.431
 158          PB    4.50
 159          LS       0    86.6
 160          UD   0.195
              *

 161          KK   R-RD1
 162          KM   ROUTE RD1 THROUGH RD2 TO CRD2
 163          KM   FUTURE CONCRETE CHANNEL
 164          RD    5100   0.061   0.015       0    TRAP      12       2
              *

 165          KK     RD2
 166          BA   0.473
 167          PB    4.40
 168          LS       0    91.2
 169          UD   0.167
              *
1                                   HEC-1 INPUT                                    PAGE  5

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 170          KK    CRD2
 171          KM   COMBINE R-RD1 AND RD2
 172          HC       2
              *

 173          KK   RCRD2
 174          KM   ROUTE CRD2 TO CRD3 (RED ROCK DETENTION BASIN)
 175          KM   FUTURE CONCRETE CHANNEL
 176          RD    4600    0.05   0.015       0    TRAP      12       2
              *

 177          KK     RD3
 178          BA    0.33
 179          PB    4.33
 180          LS       0    90.3
 181          UD   0.168
              *

 182          KK    CRD3
 183          KM   COMBINE RCRD2 AND RD3
 184          HC       2
              *

 185          KK   RR14A
 186          BA   4.602
 187          PB    4.43
 188          LS       0    87.3
 189          UD   0.725
              *

 190          KK R-RR14A
 191          KM   ROUTE RR14A THROUGH RD4 TO CRD4
 192          KM   FUTURE CONCRETE CHANNEL
 193          RD    5500   0.071   0.015       0    TRAP      12       2
              *

 194          KK     RD4
 195          BA   0.402
 196          PB    4.49
 197          LS       0    85.1
 198          UD   0.177
              *

 199          KK    CRD4
 200          KM   COMBINE R-RR14A AND RD4
 201          HC       2
              *

 202          KK   RCRD4
 203          KM   ROUTE CRD4 THROUGH RD5 TO CRD5
 204          KM   FUTURE CONCRETE CHANNEL
 205          RD    4550   0.067   0.015       0    TRAP      20       2
              *
1                                   HEC-1 INPUT                                    PAGE  6

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 206          KK     RD5
 207          BA    0.37
 208          PB    4.40
 209          LS       0    86.2
 210          UD   0.163
              *

 211          KK    CRD5
 212          KM   COMBINE RCRD4 AND RD5
 213          HC       2
              *

 214          KK   RCRD5
 215          KM   ROUTE CRD5 THROUGH RD6 TO CRD6 (RED ROCK DETENTION BASIN)
 216          KM   FUTURE CONCRETE CHANNEL
 217          RD    5600   0.047   0.015       0    TRAP      20       2
              *

 218          KK     RD6
 219          BA    0.25
 220          PB    4.34
 221          LS       0      90
 222          UD    0.16
              *

 223          KK    CRD6
 224          KM   COMBINE RCRD5 AND RD6
 225          HC       2
              *

 226          KK    INRR
 227          KM   COMBINE C104A, CRD3, AND CRD6 - TOTAL INFLOW TO RED ROCK DETENTION BASIN
 228          KO       1
 229          HC       3
              * ============================================================

 230          KK    RRDB
 231          KM   RED ROCK DETENTION BASIN
 232          KM   TAKEN FROM THE CORP MODELS FOR RED ROCK DETENTION BASIN
 233          KM   100YR COMPUTED PROBABILITY DETENTION DESIGN
 234          KM   FACILITY ID-MILE = RRWA 0716
 235          KM   STORAGE VOLUME = 2007 ACRE-FEET
 236          KM   OUTLET = 27"H x 27"W RCB ORIFICE
 237          KM   100-YR DISCHARGE = 182 CFS
 238          KM   SPILLWAY LENGTH = 600 FT
 239          KM   AUXILLARY OGEE SPILLWAY LENGTH = 323 FT
 240          KM   SPILLWAY CREST ELEVATION = 3212.5 FT NGVD
 241          KM   PMF DISCHARGE = 110000 CFS
 242          KM   TOP OF DAM ELEVATION = 3225 FT NGVD
 243          KO       1
 244          RS       1    STOR      -1
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 245          SV       0       9     107     231     372     529     705     903    1125    1376
 246          SV    1659    1974    2007    2115    2331    2690    2933
 247          SQ       0      10      57      80      99     114     128     140     151     162
1                                          HEC-1 INPUT                                                  PAGE  7

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 248          SQ     171     181     182    8654   33270  110918  163477
 249          SE    3161    3162    3167    3172    3177    3182    3187    3192    3197    3202
 250          SE    3207    3212  3212.5    3214    3217    3222    3225
              * ============================================================

 251          KK *DOUTRR
 252          KM   DIVERT SPILLWAY OVERFLOW IN EXCESS OF CORPS DESIGN OUTFLOW
 253          DT*D-RROUT
 254          DI       0     182    3000    5000   10000
 255          DQ       0       0    2818    4818    9818
              *

 256          KK  ROUTRR
 257          KM   ROUTE OUTFLOW FROM RED ROCK DETENTION BASIN THROUGH R3A TO CR3A
 258          KM   FACILITY = RED ROCK CHANNEL
 259          KM   FACILITY # = RRWA 0714, 0709, 0701
 260          KM   LINING = RCP
 261          KM   LINING = RIPRAP CHNL 10'W X 6'D; 2:1SS
 262          RD    1500   0.008    0.04       0    TRAP      10       2
              *

 263          KK     R3A
 264          BA   0.186
 265          PB    4.21
 266          LS       0    84.3
 267          UD    0.11
              *

 268          KK    CR3A
 269          KM   COMBINE OUTFLOW FROM RED ROCK DETENTION BASIN WITH R3A
 270          HC       2
              *

 271          KK   RCR3A
 272          KM   ROUTE CR3A THROUGH UFR1 TO CUFR1
 273          KM   FACILITY = RED ROCK CHANNEL
 274          KM   FACILITY # = RRWA 0695, 0692, 0608, 0607
 275          KM   LINING = RCP
 276          RD    5045  0.0055   0.013       0    CIRC       8       0
              *

 277          ZZ
1
             SCHEMATIC DIAGRAM OF STREAM NETWORK
 INPUT
  LINE      (V) ROUTING          (--->) DIVERSION OR PUMP FLOW

   NO.      (.) CONNECTOR        (<---) RETURN OF DIVERTED OR PUMPED FLOW

    52        RR1
                .
                .
    65          .        RR2
                .          V
                .          V
    70          .       RRR2
                .          .
                .          .
    74       CRR2............
                V
                V
    77      RCRR2
                .
                .
    86          .        RR5
                .          V
                .          V
    91          .      R-RR5
                .          .
                .          .
   100          .          .        RR3
                .          .          .
                .          .          .
   105       CRR3........................
                V
                V
   108      RCRR3
                .
                .
   117          .       RR10
                .          .
                .          .
   122      CRR10............
                V
                V
   125     RCRR10
                .
                .
   134          .      RR12A
                .          V
                .          V
   139          .    R-RR12A
                .          .
                .          .
   148          .          .       104A
                .          .          .
                .          .          .
   153      C104A........................
                .
                .
   156          .        RD1
                .          V
                .          V
   161          .      R-RD1
                .          .
                .          .
   165          .          .        RD2
                .          .          .
                .          .          .
   170          .       CRD2............
                .          V
                .          V
   173          .      RCRD2
                .          .
                .          .
   177          .          .        RD3
                .          .          .
                .          .          .
   182          .       CRD3............
                .          .
                .          .
   185          .          .      RR14A
                .          .          V
                .          .          V
   190          .          .    R-RR14A
                .          .          .
                .          .          .
   194          .          .          .        RD4
                .          .          .          .
                .          .          .          .
   199          .          .       CRD4............
                .          .          V
                .          .          V
   202          .          .      RCRD4
                .          .          .
                .          .          .
   206          .          .          .        RD5
                .          .          .          .
                .          .          .          .
   211          .          .       CRD5............
                .          .          V
                .          .          V
   214          .          .      RCRD5
                .          .          .
                .          .          .
   218          .          .          .        RD6
                .          .          .          .
                .          .          .          .
   223          .          .       CRD6............
                .          .          .
                .          .          .
   226       INRR........................
                V
                V
   230       RRDB
                .
                .
   253          .------->*D-RROUT
   251     *DOUTRR
                V
                V
   256      ROUTRR
                .
                .
   263          .        R3A
                .          .
                .          .
   268       CR3A............
                V
                V
   271      RCR3A

 (***) RUNOFF ALSO COMPUTED AT THIS LOCATION
1*****************************************
 *                                       *
 *   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
 *              JUN   1998               *
 *            VERSION 4.1                *
 *                                       *
 *  RUN DATE   20MAY20  TIME  10:09:35   *
 *                                       *
 *****************************************
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*************************************
*                                   *
*   U.S. ARMY CORPS OF ENGINEERS    *
*   HYDROLOGIC ENGINEERING CENTER   *
*         609 SECOND STREET         *
*      DAVIS, CALIFORNIA 95616      *
*          (916) 756-1104           *
*                                   *
*************************************
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```
RED ROCK TRAIL TO FY19-87
US FEDERAL HIGHWAY ADMINISTRATION
PN WXXY4000

HEC-1 MODEL TAKEN FROM CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT
2018 MASTER PLAN UPDATE
FLAMINGO / TROPICANA WASHES WATERSHED
RECOMMENDED DRAINAGE SYSTEM WITH ULTIMATE DEVELOPMENT
INPUT FILE = FLAM3A.DAT
INPUT FILE DATE = MAY 2020

PRECIPITATION VALUES CREATED FROM LOGRITHMIC TRENDLINE FOR 2-YEAR THROUGH
100-YEAR ISOPLUVIALS MAPS FROM NOAA ATLAS 2 THAT HAVE BEEN ADJUSTED PER
CCRFCD HYDRAULIC CRITERIA & DRAINAGE DESIGN MANUAL TABLE 501

DESIGN STORM = 500-YEAR, 6-HOUR STORM
STORM DISTRIBUTION = SDN3
STORM CENTERING = SERIES A: REGIONAL DETENTION BASIN FLOWS NOT DIVERTED OUT
MODELED BY JACOBS (DAVE BERGH, PE)

JR CARDS CONTAIN DARFS BASED ON THE FOLLOWING VALUES:

      AREA    DARF
      SQ.MI.
              SDN 3   SDN 4   SDN 5
      0 - 0.5 0.990
      0.5 - 1 0.975
      1 - 2   0.950
      2 - 3   0.925
      3 - 4   0.915
      4 - 5   0.908
      5 - 6   0.903
      6 - 7   0.895
      7 - 8   0.885
      8 - 9           0.875
      9 - 10          0.865
      10 - 11         0.857
      11 - 12         0.850
      12 - 16                 0.832
      16 - 20                 0.804
      20 - 30                 0.765
      30 - 40                 0.725
      40 - 50                 0.695
      50 - 100                0.640
      100 - 150               0.580
      150 - 200               0.530

 49 IO          OUTPUT CONTROL VARIABLES
                    IPRNT          5  PRINT CONTROL
                    IPLOT          0  PLOT CONTROL
                    QSCAL          0.  HYDROGRAPH PLOT SCALE

    IT          HYDROGRAPH TIME DATA
                     NMIN          5  MINUTES IN COMPUTATION INTERVAL
                    IDATE      1   0  STARTING DATE
                    ITIME       0000  STARTING TIME
                       NQ        300  NUMBER OF HYDROGRAPH ORDINATES
                   NDDATE      2   0  ENDING DATE
                   NDTIME       0055  ENDING TIME
                    ICENT         19  CENTURY MARK

                 COMPUTATION INTERVAL     .08 HOURS
                     TOTAL TIME BASE   24.92 HOURS

          ENGLISH UNITS
               DRAINAGE AREA         SQUARE MILES
               PRECIPITATION DEPTH   INCHES
               LENGTH, ELEVATION     FEET
               FLOW                  CUBIC FEET PER SECOND
               STORAGE VOLUME        ACRE-FEET
               SURFACE AREA          ACRES
               TEMPERATURE           DEGREES FAHRENHEIT

    JP          MULTI-PLAN OPTION
                   NPLAN          1  NUMBER OF PLANS

    JR          MULTI-RATIO OPTION
                   RATIOS OF PRECIPITATION
                  .99      .98      .95      .93      .92      .91      .90      .89      .88

*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

          **************
          *            *
 226 KK   *      INRR  *
          *            *
          **************

 228 KO          OUTPUT CONTROL VARIABLES
                    IPRNT          1  PRINT CONTROL
                    IPLOT          0  PLOT CONTROL
                    QSCAL          0.  HYDROGRAPH PLOT SCALE

 229 HC          HYDROGRAPH COMBINATION
                    ICOMP          3  NUMBER OF HYDROGRAPHS TO COMBINE

                                                
```

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0555	72	26724.	1		1210	147	0.	1		1825	222	0.	2		0040	297	0.
1		0600	73	24866.	1		1215	148	0.	1		1830	223	0.	2		0045	298	0.
1		0605	74	23119.	1		1220	149	0.	1		1835	224	0.	2		0050	299	0.
1		0610	75	21430.	1		1225	150	0.	1		1840	225	0.	2		0055	300	0.

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)				
		(CFS)			
54009.	5.00	18914.	4791.	4615.	4615.
		(INCHES) 3.213	3.255	3.255	3.255
		(AC-FT) 9379.	9503.	9503.	9503.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .98

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	19416.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	17789.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	16173.	1		1240	153	0.	1		1855	228	0.
1		0015	4	4.	1		0630	79	14584.	1		1245	154	0.	1		1900	229	0.
1		0020	5	19.	1		0635	80	13045.	1		1250	155	0.	1		1905	230	0.
1		0025	6	56.	1		0640	81	11579.	1		1255	156	0.	1		1910	231	0.
1		0030	7	117.	1		0645	82	10210.	1		1300	157	0.	1		1915	232	0.
1		0035	8	181.	1		0650	83	8954.	1		1305	158	0.	1		1920	233	0.
1		0040	9	216.	1		0655	84	7819.	1		1310	159	0.	1		1925	234	0.
1		0045	10	212.	1		0700	85	6805.	1		1315	160	0.	1		1930	235	0.
1		0050	11	199.	1		0705	86	5907.	1		1320	161	0.	1		1935	236	0.
1		0055	12	206.	1		0710	87	5116.	1		1325	162	0.	1		1940	237	0.
1		0100	13	242.	1		0715	88	4420.	1		1330	163	0.	1		1945	238	0.
1		0105	14	302.	1		0720	89	3807.	1		1335	164	0.	1		1950	239	0.
1		0110	15	391.	1		0725	90	3269.	1		1340	165	0.	1		1955	240	0.
1		0115	16	504.	1		0730	91	2796.	1		1345	166	0.	1		2000	241	0.
1		0120	17	630.	1		0735	92	2381.	1		1350	167	0.	1		2005	242	0.
1		0125	18	773.	1		0740	93	2017.	1		1355	168	0.	1		2010	243	0.
1		0130	19	956.	1		0745	94	1701.	1		1400	169	0.	1		2015	244	0.
1		0135	20	1180.	1		0750	95	1427.	1		1405	170	0.	1		2020	245	0.
1		0140	21	1407.	1		0755	96	1191.	1		1410	171	0.	1		2025	246	0.
1		0145	22	1614.	1		0800	97	989.	1		1415	172	0.	1		2030	247	0.
1		0150	23	1789.	1		0805	98	818.	1		1420	173	0.	1		2035	248	0.
1		0155	24	1926.	1		0810	99	675.	1		1425	174	0.	1		2040	249	0.
1		0200	25	2036.	1		0815	100	555.	1		1430	175	0.	1		2045	250	0.
1		0205	26	2143.	1		0820	101	456.	1		1435	176	0.	1		2050	251	0.
1		0210	27	2277.	1		0825	102	374.	1		1440	177	0.	1		2055	252	0.
1		0215	28	2471.	1		0830	103	307.	1		1445	178	0.	1		2100	253	0.
1		0220	29	2728.	1		0835	104	251.	1		1450	179	0.	1		2105	254	0.
1		0225	30	3002.	1		0840	105	206.	1		1455	180	0.	1		2110	255	0.
1		0230	31	3238.	1		0845	106	169.	1		1500	181	0.	1		2115	256	0.
1		0235	32	3439.	1		0850	107	138.	1		1505	182	0.	1		2120	257	0.
1		0240	33	3679.	1		0855	108	113.	1		1510	183	0.	1		2125	258	0.
1		0245	34	4008.	1		0900	109	92.	1		1515	184	0.	1		2130	259	0.
1		0250	35	4364.	1		0905	110	75.	1		1520	185	0.	1		2135	260	0.
1		0255	36	4659.	1		0910	111	60.	1		1525	186	0.	1		2140	261	0.
1		0300	37	4912.	1		0915	112	48.	1		1530	187	0.	1		2145	262	0.
1		0305	38	5239.	1		0920	113	38.	1		1535	188	0.	1		2150	263	0.
1		0310	39	5734.	1		0925	114	30.	1		1540	189	0.	1		2155	264	0.
1		0315	40	6442.	1		0930	115	23.	1		1545	190	0.	1		2200	265	0.
1		0320	41	7537.	1		0935	116	18.	1		1550	191	0.	1		2205	266	0.
1		0325	42	9140.	1		0940	117	14.	1		1555	192	0.	1		2210	267	0.
1		0330	43	11154.	1		0945	118	10.	1		1600	193	0.	1		2215	268	0.
1		0335	44	13179.	1		0950	119	8.	1		1605	194	0.	1		2220	269	0.
1		0340	45	14557.	1		0955	120	6.	1		1610	195	0.	1		2225	270	0.
1		0345	46	15723.	1		1000	121	5.	1		1615	196	0.	1		2230	271	0.
1		0350	47	17179.	1		1005	122	4.	1		1620	197	0.	1		2235	272	0.
1		0355	48	18985.	1		1010	123	3.	1		1625	198	0.	1		2240	273	0.
1		0400	49	21220.	1		1015	124	2.	1		1630	199	0.	1		2245	274	0.
1		0405	50	23820.	1		1020	125	1.	1		1635	200	0.	1		2250	275	0.
1		0410	51	26611.	1		1025	126	1.	1		1640	201	0.	1		2255	276	0.
1		0415	52	29580.	1		1030	127	1.	1		1645	202	0.	1		2300	277	0.
1		0420	53	32812.	1		1035	128	0.	1		1650	203	0.	1		2305	278	0.
1		0425	54	36279.	1		1040	129	0.	1		1655	204	0.	1		2310	279	0.
1		0430	55	39930.	1		1045	130	0.	1		1700	205	0.	1		2315	280	0.
1		0435	56	43606.	1		1050	131	0.	1		1705	206	0.	1		2320	281	0.
1		0440	57	46960.	1		1055	132	0.	1		1710	207	0.	1		2325	282	0.
1		0445	58	49697.	1		1100	133	0.	1		1715	208	0.	1		2330	283	0.
1		0450	59	51706.	1		1105	134	0.	1		1720	209	0.	1		2335	284	0.
1		0455	60	52865.	1		1110	135	0.	1		1725	210	0.	1		2340	285	0.
1		0500	61	52976.	1		1115	136	0.	1		1730	211	0.	1		2345	286	0.
1		0505	62	52043.	1		1120	137	0.	1		1735	212	0.	1		2350	287	0.
1		0510	63	50231.	1		1125	138	0.	1		1740	213	0.	1		2355	288	0.
1		0515	64	47759.	1		1130	139	0.	1		1745	214	0.	2		0000	289	0.
1		0520	65	44864.	1		1135	140	0.	1		1750	215	0.	2		0005	290	0.
1		0525	66	41767.	1		1140	141	0.	1		1755	216	0.	2		0010	291	0.

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0530	67	38662.	1		1145	142	0.	1		1800	217	0.	2		0015	292	0.
1		0535	68	35681.	1		1150	143	0.	1		1805	218	0.	2		0020	293	0.
1		0540	69	32921.	1		1155	144	0.	1		1810	219	0.	2		0025	294	0.
1		0545	70	30437.	1		1200	145	0.	1		1815	220	0.	2		0030	295	0.
1		0550	71	28232.	1		1205	146	0.	1		1820	221	0.	2		0035	296	0.
1		0555	72	26247.	1		1210	147	0.	1		1825	222	0.	2		0040	297	0.
1		0600	73	24425.	1		1215	148	0.	1		1830	223	0.	2		0045	298	0.
1		0605	74	22711.	1		1220	149	0.	1		1835	224	0.	2		0050	299	0.
1		0610	75	21053.	1		1225	150	0.	1		1840	225	0.	2		0055	300	0.

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)				
		(CFS)			
52976.	5.00	18533.	4694.	4521.	4521.
		(INCHES) 3.148	3.189	3.189	3.189
		(AC-FT) 9190.	9309.	9309.	9309.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .95

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	18839.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	17262.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	15695.	1		1240	153	0.	1		1855	228	0.
1		0015	4	3.	1		0630	79	14155.	1		1245	154	0.	1		1900	229	0.
1		0020	5	17.	1		0635	80	12661.	1		1250	155	0.	1		1905	230	0.
1		0025	6	50.	1		0640	81	11240.	1		1255	156	0.	1		1910	231	0.
1		0030	7	106.	1		0645	82	9912.	1		1300	157	0.	1		1915	232	0.
1		0035	8	166.	1		0650	83	8693.	1		1305	158	0.	1		1920	233	0.
1		0040	9	197.	1		0655	84	7591.	1		1310	159	0.	1		1925	234	0.
1		0045	10	193.	1		0700	85	6607.	1		1315	160	0.	1		1930	235	0.
1		0050	11	180.	1		0705	86	5735.	1		1320	161	0.	1		1935	236	0.
1		0055	12	185.	1		0710	87	4967.	1		1325	162	0.	1		1940	237	0.
1		0100	13	216.	1		0715	88	4291.	1		1330	163	0.	1		1945	238	0.
1		0105	14	270.	1		0720	89	3697.	1		1335	164	0.	1		1950	239	0.
1		0110	15	350.	1		0725	90	3174.	1		1340	165	0.	1		1955	240	0.
1		0115	16	454.	1		0730	91	2715.	1		1345	166	0.	1		2000	241	0.
1		0120	17	569.	1		0735	92	2312.	1		1350	167	0.	1		2005	242	0.
1		0125	18	699.	1		0740	93	1959.	1		1355	168	0.	1		2010	243	0.
1		0130	19	868.	1		0745	94	1652.	1		1400	169	0.	1		2015	244	0.
1		0135	20	1076.	1		0750	95	1385.	1		1405	170	0.	1		2020	245	0.
1		0140	21	1287.	1		0755	96	1156.	1		1410	171	0.	1		2025	246	0.
1		0145	22	1480.	1		0800	97	961.	1		1415	172	0.	1		2030	247	0.
1		0150	23	1645.	1		0805	98	795.	1		1420	173	0.	1		2035	248	0.
1		0155	24	1774.	1		0810	99	655.	1		1425	174	0.	1		2040	249	0.
1		0200	25	1878.	1		0815	100	539.	1		1430	175	0.	1		2045	250	0.
1		0205	26	1981.	1		0820	101	443.	1		1435	176	0.	1		2050	251	0.
1		0210	27	2110.	1		0825	102	363.	1		1440	177	0.	1		2055	252	0.
1		0215	28	2297.	1		0830	103	298.	1		1445	178	0.	1		2100	253	0.
1		0220	29	2546.	1		0835	104	244.	1		1450	179	0.	1		2105	254	0.
1		0225	30	2810.	1		0840	105	200.	1		1455	180	0.	1		2110	255	0.
1		0230	31	3039.	1		0845	106	164.	1		1500	181	0.	1		2115	256	0.
1		0235	32	3234.	1		0850	107	135.	1		1505	182	0.	1		2120	257	0.
1		0240	33	3465.	1		0855	108	110.	1		1510	183	0.	1		2125	258	0.
1		0245	34	3782.	1		0900	109	90.	1		1515	184	0.	1		2130	259	0.
1		0250	35	4124.	1		0905	110	73.	1		1520	185	0.	1		2135	260	0.
1		0255	36	4409.	1		0910	111	59.	1		1525	186	0.	1		2140	261	0.
1		0300	37	4654.	1		0915	112	47.	1		1530	187	0.	1		2145	262	0.
1		0305	38	4968.	1		0920	113	37.	1		1535	188	0.	1		2150	263	0.
1		0310	39	5444.	1		0925	114	29.	1		1540	189	0.	1		2155	264	0.
1		0315	40	6126.	1		0930	115	22.	1		1545	190	0.	1		2200	265	0.
1		0320	41	7179.	1		0935	116	17.	1		1550	191	0.	1		2205	266	0.
1		0325	42	8726.	1		0940	117	13.	1		1555	192	0.	1		2210	267	0.
1		0330	43	10679.	1		0945	118	10.	1		1600	193	0.	1		2215	268	0.
1		0335	44	12644.	1		0950	119	8.	1		1605	194	0.	1		2220	269	0.
1		0340	45	13974.	1		0955	120	6.	1		1610	195	0.	1		2225	270	0.
1		0345	46	15107.	1		1000	121	4.	1		1615	196	0.	1		2230	271	0.
1		0350	47	16513.	1		1005	122	3.	1		1620	197	0.	1		2235	272	0.
1		0355	48	18262.	1		1010	123	3.	1		1625	198	0.	1		2240	273	0.
1		0400	49	20422.	1		1015	124	2.	1		1630	199	0.	1		2245	274	0.
1		0405	50	22941.	1		1020	125	1.	1		1635	200	0.	1		2250	275	0.
1		0410	51	25643.	1		1025	126	1.	1		1640	201	0.	1		2255	276	0.
1		0415	52	28519.	1		1030	127	1.	1		1645	202	0.	1		2300	277	0.
1		0420	53	31650.	1		1035	128	0.	1		1650	203	0.	1		2305	278	0.
1		0425	54	35012.	1		1040	129	0.	1		1655	204	0.	1		2310	279	0.
1		0430	55	38554.	1		1045	130	0.	1		1700	205	0.	1		2315	280	0.
1		0435	56	42121.	1		1050	131	0.	1		1705	206	0.	1		2320	281	0.
1		0440	57	45379.	1		1055	132	0.	1		1710	207	0.	1		2325	282	0.
1		0445	58	48039.	1		1100	133	0.	1		1715	208	0.	1		2330	283	0.
1		0450	59	49997.	1		1105	134	0.	1		1720	209	0.	1		2335	284	0.
1		0455	60	51132.	1		1110	135	0.	1		1725	210	0.	1		2340	285	0.
1		0500	61	51255.	1		1115	136	0.	1		1730	211	0.	1		2345	286	0.

1	0505	62	50364.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.					
1	0510	63	48622.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.					
1	0515	64	46240.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.					
1	0520	65	43446.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.					
1	0525	66	40456.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.					
1	0530	67	37455.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.					
1	0535	68	34574.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.					
1	0540	69	31907.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.					
1	0545	70	29504.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.					
1	0550	71	27371.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.					
1	0555	72	25452.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.					
1	0600	73	23689.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.					
1	0605	74	22030.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.					
1	0610	75	20424.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.					

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
	(CFS)				
+ 51255.	5.00	17898.	4531.	4364.	4364.
	(INCHES)	3.040	3.079	3.079	3.079
	(AC-FT)	8875.	8987.	8987.	8987.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .93

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	1	0615	76	18261.	1	1230	151	0.	1	1845	226	0.				
1	0005	2	0.	1	0620	77	16734.	1	1235	152	0.	1	1850	227	0.				
1	0010	3	0.	1	0625	78	15217.	1	1240	153	0.	1	1855	228	0.				
1	0015	4	2.	1	0630	79	13725.	1	1245	154	0.	1	1900	229	0.				
1	0020	5	14.	1	0635	80	12278.	1	1250	155	0.	1	1905	230	0.				
1	0025	6	44.	1	0640	81	10900.	1	1255	156	0.	1	1910	231	0.				
1	0030	7	96.	1	0645	82	9613.	1	1300	157	0.	1	1915	232	0.				
1	0035	8	151.	1	0650	83	8431.	1	1305	158	0.	1	1920	233	0.				
1	0040	9	179.	1	0655	84	7363.	1	1310	159	0.	1	1925	234	0.				
1	0045	10	175.	1	0700	85	6409.	1	1315	160	0.	1	1930	235	0.				
1	0050	11	162.	1	0705	86	5563.	1	1320	161	0.	1	1935	236	0.				
1	0055	12	165.	1	0710	87	4819.	1	1325	162	0.	1	1940	237	0.				
1	0100	13	191.	1	0715	88	4163.	1	1330	163	0.	1	1945	238	0.				
1	0105	14	239.	1	0720	89	3586.	1	1335	164	0.	1	1950	239	0.				
1	0110	15	312.	1	0725	90	3080.	1	1340	165	0.	1	1955	240	0.				
1	0115	16	406.	1	0730	91	2634.	1	1345	166	0.	1	2000	241	0.				
1	0120	17	510.	1	0735	92	2243.	1	1350	167	0.	1	2005	242	0.				
1	0125	18	629.	1	0740	93	1901.	1	1355	168	0.	1	2010	243	0.				
1	0130	19	785.	1	0745	94	1603.	1	1400	169	0.	1	2015	244	0.				
1	0135	20	976.	1	0750	95	1344.	1	1405	170	0.	1	2020	245	0.				
1	0140	21	1172.	1	0755	96	1122.	1	1410	171	0.	1	2025	246	0.				
1	0145	22	1351.	1	0800	97	932.	1	1415	172	0.	1	2030	247	0.				
1	0150	23	1504.	1	0805	98	771.	1	1420	173	0.	1	2035	248	0.				
1	0155	24	1626.	1	0810	99	636.	1	1425	174	0.	1	2040	249	0.				
1	0200	25	1724.	1	0815	100	523.	1	1430	175	0.	1	2045	250	0.				
1	0205	26	1823.	1	0820	101	430.	1	1435	176	0.	1	2050	251	0.				
1	0210	27	1947.	1	0825	102	352.	1	1440	177	0.	1	2055	252	0.				
1	0215	28	2128.	1	0830	103	289.	1	1445	178	0.	1	2100	253	0.				
1	0220	29	2367.	1	0835	104	237.	1	1450	179	0.	1	2105	254	0.				
1	0225	30	2623.	1	0840	105	194.	1	1455	180	0.	1	2110	255	0.				
1	0230	31	2844.	1	0845	106	159.	1	1500	181	0.	1	2115	256	0.				
1	0235	32	3033.	1	0850	107	131.	1	1505	182	0.	1	2120	257	0.				
1	0240	33	3256.	1	0855	108	107.	1	1510	183	0.	1	2125	258	0.				
1	0245	34	3559.	1	0900	109	87.	1	1515	184	0.	1	2130	259	0.				
1	0250	35	3888.	1	0905	110	71.	1	1520	185	0.	1	2135	260	0.				
1	0255	36	4163.	1	0910	111	57.	1	1525	186	0.	1	2140	261	0.				
1	0300	37	4399.	1	0915	112	45.	1	1530	187	0.	1	2145	262	0.				
1	0305	38	4701.	1	0920	113	36.	1	1535	188	0.	1	2150	263	0.				
1	0310	39	5156.	1	0925	114	28.	1	1540	189	0.	1	2155	264	0.				
1	0315	40	5813.	1	0930	115	22.	1	1545	190	0.	1	2200	265	0.				
1	0320	41	6825.	1	0935	116	17.	1	1550	191	0.	1	2205	266	0.				
1	0325	42	8321.	1	0940	117	13.	1	1555	192	0.	1	2210	267	0.				
1	0330	43	10212.	1	0945	118	10.	1	1600	193	0.	1	2215	268	0.				
1	0335	44	12104.	1	0950	119	7.	1	1605	194	0.	1	2220	269	0.				
1	0340	45	13411.	1	0955	120	6.	1	1610	195	0.	1	2225	270	0.				
1	0345	46	14492.	1	1000	121	4.	1	1615	196	0.	1	2230	271	0.				
1	0350	47	15853.	1	1005	122	3.	1	1620	197	0.	1	2235	272	0.				
1	0355	48	17540.	1	1010	123	3.	1	1625	198	0.	1	2240	273	0.				
1	0400	49	19626.	1	1015	124	2.	1	1630	199	0.	1	2245	274	0.				
1	0405	50	22063.	1	1020	125	1.	1	1635	200	0.	1	2250	275	0.				
1	0410	51	24677.	1	1025	126	1.	1	1640	201	0.	1	2255	276	0.				
1	0415	52	27459.	1	1030	127	1.	1	1645	202	0.	1	2300	277	0.				
1	0420	53	30491.	1	1035	128	0.	1	1650	203	0.	1	2305	278	0.				
1	0425	54	33747.	1	1040	129	0.	1	1655	204	0.	1	2310	279	0.				
1	0430	55	37180.	1	1045	130	0.	1	1700	205	0.	1	2315	280	0.				
1	0435	56	40639.	1	1050	131	0.	1	1705	206	0.	1	2320	281	0.				

1	0440	57	43799.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.					
1	0445	58	46385.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.					
1	0450	59	48291.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.					
1	0455	60	49404.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.					
1	0500	61	49535.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.					
1	0505	62	48687.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.					
1	0510	63	47014.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.					
1	0515	64	44721.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.					
1	0520	65	42029.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.					
1	0525	66	39145.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.					
1	0530	67	36249.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.					
1	0535	68	33468.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.					
1	0540	69	30891.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.					
1	0545	70	28571.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.					
1	0550	71	26511.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.					
1	0555	72	24656.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.					
1	0600	73	22953.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.					
1	0605	74	21348.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.					
1	0610	75	19796.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.					

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
	(CFS)				
+ 49535.	5.00	17265.	4369.	4209.	4209.
	(INCHES)	2.933	2.969	2.969	2.969
	(AC-FT)	8561.	8666.	8666.	8666.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .92

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	1	0615	76	18030.	1	1230	151	0.	1	1845	226	0.				
1	0005	2	0.	1	0620	77	16523.	1	1235	152	0.	1	1850	227	0.				
1	0010	3	0.	1	0625	78	15026.	1	1240	153	0.	1	1855	228	0.				
1	0015	4	2.	1	0630	79	13552.	1	1245	154	0.	1	1900	229	0.				
1	0020	5	13.	1	0635	80	12124.	1	1250	155	0.	1	1905	230	0.				
1	0025	6	42.	1	0640	81	10764.	1	1255	156	0.	1	1910	231	0.				
1	0030	7	92.	1	0645	82	9493.	1	1300	157	0.	1	1915	232	0.				
1	0035	8	145.	1	0650	83	8326.	1	1305	158	0.	1	1920	233	0.				
1	0040	9	172.	1	0655	84	7271.	1	1310	159	0.	1	1925	234	0.				
1	0045	10	168.	1	0700	85	6329.	1	1315	160	0.	1	1930	235	0.				
1	0050	11	155.	1	0705	86	5495.	1	1320	161	0.	1	1935	236	0.				
1	0055	12	157.	1	0710	87	4759.	1	1325	162	0.	1	1940	237	0.				
1	0100	13	182.	1	0715	88	4112.	1	1330	163	0.	1	1945	238	0.				
1	0105	14	228.	1	0720	89	3542.	1	1335	164	0.	1	1950	239	0.				
1	0110	15	297.	1	0725	90	3042.	1	1340	165	0.	1	1955	240	0.				
1	0115	16	388.	1	0730	91	2602.	1	1345	166	0.	1	2000	241	0.				
1	0120	17	488.	1	0735	92	2216.	1	1350	167	0.	1	2005	242	0.				
1	0125	18	602.	1	0740	93	1877.	1	1355	168	0.	1	2010	243	0.				
1	0130	19	752.	1	0745	94	1583.	1	1400	169	0.	1	2015	244	0.				
1	0135	20	937.	1	0750	95	1328.	1	1405	170	0.	1	2020	245	0.				
1	0140	21	1127.	1	0755	96	1108.	1	1410	171	0.	1	2025	246	0.				
1	0145	22	1301.	1	0800	97	921.	1	1415	172	0.	1	2030	247	0.				
1	0150	23	1450.	1	0805	98	762.	1	1420	173	0.	1	2035	248	0.				
1	0155	24	1568.	1	0810	99	628.	1	1425	174	0.	1	2040	249	0.				
1	0200	25	1665.	1	0815	100	517.	1	1430	175	0.	1	2045	250	0.				
1	0205	26	1761.	1	0820	101	424.	1	1435	176	0.	1	2050	251	0.				
1	0210	27	1884.	1	0825	102	348.	1	1440	177	0.	1	2055	252	0.				
1	0215	28	2062.	1	0830	103	286.	1	1445	178	0.	1	2100	253	0.				
1	0220	29	2297.	1	0835	104	234.	1	1450	179	0.	1	2105	254	0.				
1	0225	30	2549.	1	0840	105	192.	1	1455	180	0.	1	2110	255	0.				
1	0230	31	2767.	1	0845	106	158.	1	1500	181	0.	1	2115	256	0.				
1	0235	32	2953.	1	0850	107	129.	1	1505	182	0.	1	2120	257	0.				
1	0240	33	3172.	1	0855	108	105.	1	1510	183	0.	1	2125	258	0.				
1	0245	34	3471.	1	0900	109	86.	1	1515	184	0.	1	2130	259	0.				
1	0250	35	3795.	1	0905	110	70.	1	1520	185	0.	1	2135	260	0.				
1	0255	36	4065.	1	0910	111	56.	1	1525	186	0.	1	2140	261	0.				
1	0300	37	4298.	1	0915	112	45.	1	1530	187	0.	1	2145	262	0.				
1	0305	38	4595.	1	0920	113	35.	1	1535	188	0.	1	2150	263	0.				
1	0310	39	5047.	1	0925	114	28.	1	1540	189	0.	1	2155	264	0.				
1	0315	40	5693.	1	0930	115	22.	1	1545	190	0.	1	2200	265	0.				
1	0320	41	6690.	1	0935	116	17.	1	1550	191	0.	1	2205	266	0.				
1	0325	42	8166.	1	0940	117	13.	1	1555	192	0.	1	2210	267	0.				
1	0330	43	10022.	1	0945	118	10.	1	1600	193	0.	1	2215	268	0.				
1	0335	44	11896.	1	0950	119	7.	1	1605	194	0.	1	2220	269	0.				
1	0340	45	13163.	1	0955	120	6.	1	1610	195	0.	1	2225	270	0.				
1	0345	46	14245.	1	1000	121	4.	1	1615	196	0.	1	2230	271	0.				
1	0350	47	15583.	1	1005	122	3.	1	1620	197	0.	1	2235	272	0.				
1	0355	48	17251.	1	1010	123	2.	1	1625	198	0.	1	2240	273	0.				
1	0400	49	19310.	1	1015	124	2.	1	1630	199	0.	1	2245	274	0.				
1	0405	50	21712.	1	1020	125	1.	1	1635	200	0.	1	2250	275	0.				
1	0410	51	24291.	1	1025	126	1.	1	1640	201	0.	1	2255	276	0.				

1	0415	52	27038.	*	1	1030	127	1.	*	1	1645	202	0.	*	1	2300	277	0.					
1	0420	53	30029.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.					
1	0425	54	33242.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.					
1	0430	55	36630.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.					
1	0435	56	40044.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.					
1	0440	57	43168.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.					
1	0445	58	45723.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.					
1	0450	59	47610.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.					
1	0455	60	48712.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.					
1	0500	61	48847.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.					
1	0505	62	48018.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.					
1	0510	63	46372.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.					
1	0515	64	44115.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.					
1	0520	65	41461.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.					
1	0525	66	38620.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.					
1	0530	67	35766.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.					
1	0535	68	33025.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.					
1	0540	69	30486.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.					
1	0545	70	28198.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.					
1	0550	71	26166.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.					
1	0555	72	24338.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.					
1	0600	73	22658.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.					
1	0605	74	21076.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.					
1	0610	75	19544.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.					
				*					*					*										

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 48847.	5.00	17013.	4305.	4146.	4146.
		(INCHES) 2.890	2.925	2.925	2.925
		(AC-FT) 8436.	8538.	8538.	8538.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .91

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	*	1	0615	76	17868.	*	1	1230	151	0.	*	1	1845	226	0.					
1	0005	2	0.	*	1	0620	77	16375.	*	1	1235	152	0.	*	1	1850	227	0.					
1	0010	3	0.	*	1	0625	78	14892.	*	1	1240	153	0.	*	1	1855	228	0.					
1	0015	4	2.	*	1	0630	79	13432.	*	1	1245	154	0.	*	1	1900	229	0.					
1	0020	5	12.	*	1	0635	80	12017.	*	1	1250	155	0.	*	1	1905	230	0.					
1	0025	6	41.	*	1	0640	81	10669.	*	1	1255	156	0.	*	1	1910	231	0.					
1	0030	7	89.	*	1	0645	82	9409.	*	1	1300	157	0.	*	1	1915	232	0.					
1	0035	8	141.	*	1	0650	83	8253.	*	1	1305	158	0.	*	1	1920	233	0.					
1	0040	9	168.	*	1	0655	84	7207.	*	1	1310	159	0.	*	1	1925	234	0.					
1	0045	10	164.	*	1	0700	85	6274.	*	1	1315	160	0.	*	1	1930	235	0.					
1	0050	11	150.	*	1	0705	86	5446.	*	1	1320	161	0.	*	1	1935	236	0.					
1	0055	12	152.	*	1	0710	87	4717.	*	1	1325	162	0.	*	1	1940	237	0.					
1	0100	13	176.	*	1	0715	88	4076.	*	1	1330	163	0.	*	1	1945	238	0.					
1	0105	14	220.	*	1	0720	89	3511.	*	1	1335	164	0.	*	1	1950	239	0.					
1	0110	15	287.	*	1	0725	90	3015.	*	1	1340	165	0.	*	1	1955	240	0.					
1	0115	16	375.	*	1	0730	91	2579.	*	1	1345	166	0.	*	1	2000	241	0.					
1	0120	17	472.	*	1	0735	92	2196.	*	1	1350	167	0.	*	1	2005	242	0.					
1	0125	18	584.	*	1	0740	93	1861.	*	1	1355	168	0.	*	1	2010	243	0.					
1	0130	19	730.	*	1	0745	94	1569.	*	1	1400	169	0.	*	1	2015	244	0.					
1	0135	20	911.	*	1	0750	95	1316.	*	1	1405	170	0.	*	1	2020	245	0.					
1	0140	21	1097.	*	1	0755	96	1099.	*	1	1410	171	0.	*	1	2025	246	0.					
1	0145	22	1267.	*	1	0800	97	913.	*	1	1415	172	0.	*	1	2030	247	0.					
1	0150	23	1412.	*	1	0805	98	755.	*	1	1420	173	0.	*	1	2035	248	0.					
1	0155	24	1528.	*	1	0810	99	623.	*	1	1425	174	0.	*	1	2040	249	0.					
1	0200	25	1623.	*	1	0815	100	512.	*	1	1430	175	0.	*	1	2045	250	0.					
1	0205	26	1718.	*	1	0820	101	421.	*	1	1435	176	0.	*	1	2050	251	0.					
1	0210	27	1840.	*	1	0825	102	345.	*	1	1440	177	0.	*	1	2055	252	0.					
1	0215	28	2015.	*	1	0830	103	283.	*	1	1445	178	0.	*	1	2100	253	0.					
1	0220	29	2248.	*	1	0835	104	232.	*	1	1450	179	0.	*	1	2105	254	0.					
1	0225	30	2497.	*	1	0840	105	190.	*	1	1455	180	0.	*	1	2110	255	0.					
1	0230	31	2714.	*	1	0845	106	156.	*	1	1500	181	0.	*	1	2115	256	0.					
1	0235	32	2898.	*	1	0850	107	128.	*	1	1505	182	0.	*	1	2120	257	0.					
1	0240	33	3115.	*	1	0855	108	105.	*	1	1510	183	0.	*	1	2125	258	0.					
1	0245	34	3410.	*	1	0900	109	85.	*	1	1515	184	0.	*	1	2130	259	0.					
1	0250	35	3730.	*	1	0905	110	69.	*	1	1520	185	0.	*	1	2135	260	0.					
1	0255	36	3997.	*	1	0910	111	56.	*	1	1525	186	0.	*	1	2140	261	0.					
1	0300	37	4228.	*	1	0915	112	44.	*	1	1530	187	0.	*	1	2145	262	0.					
1	0305	38	4522.	*	1	0920	113	35.	*	1	1535	188	0.	*	1	2150	263	0.					
1	0310	39	4967.	*	1	0925	114	28.	*	1	1540	189	0.	*	1	2155	264	0.					
1	0315	40	5605.	*	1	0930	115	21.	*	1	1545	190	0.	*	1	2200	265	0.					
1	0320	41	6594.	*	1	0935	116	16.	*	1	1550	191	0.	*	1	2205	266	0.					
1	0325	42	8052.	*	1	0940	117	13.	*	1	1555	192	0.	*	1	2210	267	0.					
1	0330	43	9897.	*	1	0945	118	10.	*	1	1600	193	0.	*	1	2215	268	0.					
1	0335	44	11742.	*	1	0950	119	7.	*	1	1605	194	0.	*	1	2220	269	0.					
1	0340	45	13015.	*	1	0955	120	6.	*	1	1610	195	0.	*	1	2225	270	0.					
1	0345	46	14069.	*	1	1000	121	4.	*	1	1615	196	0.	*	1	2230	271	0.					

1	0350	47	15399.	*	1	1005	122	3.	*	1	1620	197	0.	*	1	2235	272	0.					
1	0355	48	17048.	*	1	1010	123	2.	*	1	1625	198	0.	*	1	2240	273	0.					
1	0400	49	19087.	*	1	1015	124	2.	*	1	1630	199	0.	*	1	2245	274	0.					
1	0405	50	21467.	*	1	1020	125	1.	*	1	1635	200	0.	*	1	2250	275	0.					
1	0410	51	24023.	*	1	1025	126	1.	*	1	1640	201	0.	*	1	2255	276	0.					
1	0415	52	26744.	*	1	1030	127	1.	*	1	1645	202	0.	*	1	2300	277	0.					
1	0420	53	29707.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.					
1	0425	54	32890.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.					
1	0430	55	36246.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.					
1	0435	56	39631.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.					
1	0440	57	42725.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.					
1	0445	58	45259.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.					
1	0450	59	47129.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.					
1	0455	60	48226.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.					
1	0500	61	48365.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.					
1	0505	62	47545.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.					
1	0510	63	45920.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.					
1	0515	64	43687.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.					
1	0520	65	41064.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.					
1	0525	66	38252.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.					
1	0530	67	35428.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.					
1	0535	68	32715.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.					
1	0540	69	30201.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.					
1	0545	70	27937.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.					
1	0550	71	25926.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.					
1	0555	72	24115.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.					
1	0600	73	22451.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.					
1	0605	74	20885.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.					
1	0610	75	19368.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.					
				*					*					*										

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 48365.	5.00	16836.	4260.	4103.	4103.
		(INCHES) 2.860	2.894	2.894	2.894
		(AC-FT) 8348.	8449.	8449.	8449.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .90

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	*	1	0615	76	17753.	*	1	1230	151	0.	*	1	1845	226	0.					
1	0005	2	0.	*	1	0620	77	16270.	*	1	1235	152	0.	*	1	1850	227	0.					
1	0010	3	0.	*	1	0625	78	14796.	*	1	1240	153	0.	*	1	1855	228	0.					
1	0015	4	2.	*	1	0630	79	13346.	*	1	1245	154	0.	*	1	1900	229	0.					
1	0020	5	12.	*	1	0635	80	11940.	*	1	1250	155	0.	*	1	1905	230	0.					
1	0025	6	40.	*	1	0640	81	10601.	*	1	1255	156	0.	*	1	1910	231	0.					
1	0030	7	87.	*	1	0645	82	9349.	*	1	1300	157	0.	*	1	1915	232	0.					
1	0035	8	138.	*	1	0650	83	8200.	*	1	1305	158	0.	*	1	1920	233	0.					
1	0040	9	164.	*	1	0655	84	7162.	*	1	1310	159	0.	*	1	1925	234	0.					
1	0045	10	160.	*	1	0700	85	6234.	*	1	1315	160	0.	*	1	1930	235	0.					
1	0050	11	147.	*	1	0705	86	5412.	*	1	1320	161	0.	*	1	1935	236	0.					
1	0055	12	148.	*	1	0710	87	4687.	*	1	1325	162	0.	*	1	1940	237	0.					
1	0100	13	171.	*	1	0715	88	4050.	*	1	1330	163	0.	*	1	1945	238	0.					
1	0105	14	214.	*	1	0720	89	3489.	*	1	1335	164	0.	*	1	1950	239	0.					
1	0110	15	280.	*	1	0725	90	2996.	*	1	1340	165	0.	*	1	1955	240	0.					
1	0115	16	366.	*	1	0730	91	2563.	*	1	1345	166	0.	*	1	2000	241	0.					
1	0120	17	461.	*	1	0735	92	2182.	*	1	1350	167	0.	*	1	2005	242	0.					
1	0125	18	571.	*	1	0740	93	1849.	*	1	1355	168	0.	*	1	2010	243	0.					
1	0130	19	714.	*	1	0745	94	1559.	*	1	1400	169	0.	*	1	2015	244	0.					
1	0135	20	892.	*	1	0750	95	1308.	*	1	1405	170	0.	*	1	2020	245	0.					
1	0140	21	1075.	*	1	0755	96	1092.	*	1	1410	171	0.	*	1	2025	246	0.					
1	0145	22	1242.	*	1	0800	97	907.	*	1	1415	172	0.	*	1	2030	247	0.					
1	0150	23	1386.	*	1	0805	98	750.	*	1	1420	173	0.	*	1	2035	248	0.					
1	0155	24	1500.	*	1	0810	99	619.	*	1	1425	174	0.	*	1	2040	249	0.					
1	0200	25	1594.	*	1	0815	100	509.	*	1	1430	175	0.	*	1	2045	250	0.					
1	0205	26	1688.	*	1	0820	101	418.	*	1	1435	176	0.	*	1	2050	251	0.					
1	0210	27	1808.	*	1	0825	102	343.	*	1	1440	177	0.	*	1	2055	252	0.					
1	0215	28	1982.	*	1	0830	103	281.	*	1	1445	178	0.	*	1	2100	253	0.					
1	0220	29	2213.	*	1	0835	104	231.	*	1	1450	179	0.	*	1	2105	254	0.					
1	0225	30	2461.	*	1	0840	105	189.	*	1	1455	180	0.	*	1	2110	255	0.					
1	0230	31	2676.	*	1	0845	106	155.	*	1	1500	181	0.	*	1	2115	256	0.					
1	0235	32	2860.	*	1	0850	107	127.	*	1	1505	182	0.	*	1	2120	257	0.					
1	0240	33	3074.	*	1	0855	108	104.	*	1	1510	183	0.	*	1	2125	258	0.					
1	0245	34	3366.	*	1	0900	109	85.	*	1	1515	184	0.	*	1	2130	259	0.					
1	0250	35	3683.	*	1	0905	110	69.	*	1	1520	185	0.	*	1	2135	260	0.					
1	0255	36	3949.	*	1	0910	111	55.	*	1	1525	186	0.	*	1	2140	261	0.					
1	0300	37	4178.	*	1	0915	112	44.	*	1	1530	187	0.	*	1	2145	262	0.					
1	0305	38	4469.	*	1	0920	113	35.	*	1	1535	188	0.	*	1	2150	263	0.					
1	0310	39	4908.	*	1	0925	114	27.	*	1	1540	189	0.	*	1	2155	264	0.					
1	0315	40	5543.	*	1	0930	115	21.	*	1	1545	190	0.	*	1	2200	265	0.					
1	0320	41	6523.	*	1	0935	116	16.	*	1	1550	191	0.	*	1	2205	266	0.					

1	0325	42	7971.	*	1	0940	117	12.	*	1	1555	192	0.	*	1	2210	267	0.					
1	0330	43	9799.	*	1	0945	118	10.	*	1	1600	193	0.	*	1	2215	268	0.					
1	0335	44	11636.	*	1	0950	119	7.	*	1	1605	194	0.	*	1	2220	269	0.					
1	0340	45	12903.	*	1	0955	120	6.	*	1	1610	195	0.	*	1	2225	270	0.					
1	0345	46	13950.	*	1	1000	121	4.	*	1	1615	196	0.	*	1	2230	271	0.					
1	0350	47	15270.	*	1	1005	122	3.	*	1	1620	197	0.	*	1	2235	272	0.					
1	0355	48	16906.	*	1	1010	123	2.	*	1	1625	198	0.	*	1	2240	273	0.					
1	0400	49	18931.	*	1	1015	124	2.	*	1	1630	199	0.	*	1	2245	274	0.					
1	0405	50	21293.	*	1	1020	125	1.	*	1	1635	200	0.	*	1	2250	275	0.					
1	0410	51	23826.	*	1	1025	126	1.	*	1	1640	201	0.	*	1	2255	276	0.					
1	0415	52	26531.	*	1	1030	127	1.	*	1	1645	202	0.	*	1	2300	277	0.					
1	0420	53	29475.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.					
1	0425	54	32637.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.					
1	0430	55	35973.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.					
1	0435	56	39334.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.					
1	0440	57	42410.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.					
1	0445	58	44927.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.					
1	0450	59	46789.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.					
1	0455	60	47880.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.					
1	0500	61	48020.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.					
1	0505	62	47210.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.					
1	0510	63	45599.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.					
1	0515	64	43385.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.					
1	0520	65	40781.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.					
1	0525	66	37990.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.					
1	0530	67	35188.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.					
1	0535	68	32494.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.					
1	0540	69	29998.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.					
1	0545	70	27750.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.					
1	0550	71	25754.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.					
1	0555	72	23956.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.					
1	0600	73	22304.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.					
1	0605	74	20749.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.					
1	0610	75	19242.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.					

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW				
		6-HR	24-HR	72-HR	24.92-HR	
+ (CFS)	(HR)					
		(CFS)				
+ 48020.	5.00	16710.	4227.	4072.	4072.	
		(INCHES) 2.839	2.872	2.872	2.872	
		(AC-FT) 8286.	8385.	8385.	8385.	

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .89

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	1	0615	76	17568.	1	1230	151	0.	1	1845	226	0.				
1	0005	2	0.	1	0620	77	16101.	1	1235	152	0.	1	1850	227	0.				
1	0010	3	0.	1	0625	78	14643.	1	1240	153	0.	1	1855	228	0.				
1	0015	4	2.	1	0630	79	13208.	1	1245	154	0.	1	1900	229	0.				
1	0020	5	11.	1	0635	80	11817.	1	1250	155	0.	1	1905	230	0.				
1	0025	6	38.	1	0640	81	10492.	1	1255	156	0.	1	1910	231	0.				
1	0030	7	84.	1	0645	82	9253.	1	1300	157	0.	1	1915	232	0.				
1	0035	8	134.	1	0650	83	8116.	1	1305	158	0.	1	1920	233	0.				
1	0040	9	159.	1	0655	84	7089.	1	1310	159	0.	1	1925	234	0.				
1	0045	10	155.	1	0700	85	6170.	1	1315	160	0.	1	1930	235	0.				
1	0050	11	142.	1	0705	86	5357.	1	1320	161	0.	1	1935	236	0.				
1	0055	12	142.	1	0710	87	4640.	1	1325	162	0.	1	1940	237	0.				
1	0100	13	164.	1	0715	88	4009.	1	1330	163	0.	1	1945	238	0.				
1	0105	14	205.	1	0720	89	3454.	1	1335	164	0.	1	1950	239	0.				
1	0110	15	269.	1	0725	90	2966.	1	1340	165	0.	1	1955	240	0.				
1	0115	16	352.	1	0730	91	2537.	1	1345	166	0.	1	2000	241	0.				
1	0120	17	444.	1	0735	92	2160.	1	1350	167	0.	1	2005	242	0.				
1	0125	18	550.	1	0740	93	1831.	1	1355	168	0.	1	2010	243	0.				
1	0130	19	689.	1	0745	94	1544.	1	1400	169	0.	1	2015	244	0.				
1	0135	20	862.	1	0750	95	1295.	1	1405	170	0.	1	2020	245	0.				
1	0140	21	1040.	1	0755	96	1081.	1	1410	171	0.	1	2025	246	0.				
1	0145	22	1204.	1	0800	97	898.	1	1415	172	0.	1	2030	247	0.				
1	0150	23	1344.	1	0805	98	743.	1	1420	173	0.	1	2035	248	0.				
1	0155	24	1456.	1	0810	99	613.	1	1425	174	0.	1	2040	249	0.				
1	0200	25	1547.	1	0815	100	504.	1	1430	175	0.	1	2045	250	0.				
1	0205	26	1640.	1	0820	101	414.	1	1435	176	0.	1	2050	251	0.				
1	0210	27	1759.	1	0825	102	340.	1	1440	177	0.	1	2055	252	0.				
1	0215	28	1931.	1	0830	103	279.	1	1445	178	0.	1	2100	253	0.				
1	0220	29	2158.	1	0835	104	228.	1	1450	179	0.	1	2105	254	0.				
1	0225	30	2403.	1	0840	105	187.	1	1455	180	0.	1	2110	255	0.				
1	0230	31	2616.	1	0845	106	154.	1	1500	181	0.	1	2115	256	0.				
1	0235	32	2798.	1	0850	107	126.	1	1505	182	0.	1	2120	257	0.				
1	0240	33	3009.	1	0855	108	103.	1	1510	183	0.	1	2125	258	0.				
1	0245	34	3296.	1	0900	109	84.	1	1515	184	0.	1	2130	259	0.				
1	0250	35	3609.	1	0905	110	68.	1	1520	185	0.	1	2135	260	0.				
1	0255	36	3872.	1	0910	111	55.	1	1525	186	0.	1	2140	261	0.				

1	0300	37	4098.	*	1	0915	112	44.	*	1	1530	187	0.	*	1	2145	262	0.					
1	0305	38	4385.	*	1	0920	113	35.	*	1	1535	188	0.	*	1	2150	263	0.					
1	0310	39	4819.	*	1	0925	114	27.	*	1	1540	189	0.	*	1	2155	264	0.					
1	0315	40	5445.	*	1	0930	115	21.	*	1	1545	190	0.	*	1	2200	265	0.					
1	0320	41	6409.	*	1	0935	116	16.	*	1	1550	191	0.	*	1	2205	266	0.					
1	0325	42	7841.	*	1	0940	117	12.	*	1	1555	192	0.	*	1	2210	267	0.					
1	0330	43	9648.	*	1	0945	118	9.	*	1	1600	193	0.	*	1	2215	268	0.					
1	0335	44	11474.	*	1	0950	119	7.	*	1	1605	194	0.	*	1	2220	269	0.					
1	0340	45	12715.	*	1	0955	120	5.	*	1	1610	195	0.	*	1	2225	270	0.					
1	0345	46	13762.	*	1	1000	121	4.	*	1	1615	196	0.	*	1	2230	271	0.					
1	0350	47	15060.	*	1	1005	122	3.	*	1	1620	197	0.	*	1	2235	272	0.					
1	0355	48	16677.	*	1	1010	123	2.	*	1	1625	198	0.	*	1	2240	273	0.					
1	0400	49	18675.	*	1	1015	124	2.	*	1	1630	199	0.	*	1	2245	274	0.					
1	0405	50	21011.	*	1	1020	125	1.	*	1	1635	200	0.	*	1	2250	275	0.					
1	0410	51	23524.	*	1	1025	126	1.	*	1	1640	201	0.	*	1	2255	276	0.					
1	0415	52	26195.	*	1	1030	127	1.	*	1	1645	202	0.	*	1	2300	277	0.					
1	0420	53	29104.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.					
1	0425	54	32234.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.					
1	0430	55	35533.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.					
1	0435	56	38861.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.					
1	0440	57	41905.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.					
1	0445	58	44401.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.					
1	0450	59	46244.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.					
1	0455	60	47328.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.					
1	0500	61	47472.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.					
1	0505	62	46676.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.					
1	0510	63	45086.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.					
1	0515	64	42900.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.					
1	0520	65	40329.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.					
1	0525	66	37571.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.					
1	0530	67	34802.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.					
1	0535	68	32140.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.					
1	0540	69	29674.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.					
1	0545	70	27452.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.					
1	0550	71	25478.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.					
1	0555	72	23702.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.					
1	0600	73	22069.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.					
1	0605	74	20531.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.					
1	0610	75	19041.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.					

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW				
		6-HR	24-HR	72-HR	24.92-HR	
+ (CFS)	(HR)					
		(CFS)				
+ 47472.	5.00	16509.	4176.	4022.	4022.	
		(INCHES) 2.804	2.838	2.838	2.838	
		(AC-FT) 8186.	8283.	8283.	8283.	

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .88

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	1	0615	76	17336.	1	1230	151	0.	1	1845	226	0.				
1	0005	2	0.	1	0620	77	15889.	1	1235	152	0.	1	1850	227	0.				
1	0010	3	0.	1	0625	78	14451.	1	1240	153	0.	1	1855	228	0.				
1	0015	4	1.	1	0630	79	13036.	1	1245	154	0.	1	1900	229	0.				
1	0020	5	10.	1	0635	80	11663.	1	1250	155	0.	1	1905	230	0.				
1	0025	6	36.	1	0640	81	10356.	1	1255	156	0.	1	1910	231	0.				
1	0030	7	81.	1	0645	82	9133.	1	1300	157	0.	1	1915	232	0.				
1	0035	8	128.	1	0650	83	8011.	1	1305	158	0.	1	1920	233	0.				
1	0040	9	153.	1	0655	84	6997.	1	1310	159	0.	1	1925	234	0.				
1	0045	10	148.	1	0700	85	6091.	1	1315	160	0.	1	1930	235	0.				
1	0050	11	135.	1	0705	86	5288.	1	1320	161	0.	1	1935	236	0.				
1	0055	12	135.	1	0710	87	4580.	1	1325	162	0.	1	1940	237	0.				
1	0100	13	155.	1	0715	88	3957.	1	1330	163	0.	1	1945	238	0.				
1	0105	14	195.	1	0720	89	3409.	1	1335	164	0.	1	1950	239	0.				
1	0110	15	255.	1	0725	90	2928.	1	1340	165	0.	1	1955	240	0.				
1	0115	16	335.	1	0730	91	2504.	1	1345	166	0.	1	2000	241	0.				
1	0120	17	424.	1	0735	92	2133.	1	1350	167	0.	1	2005	242	0.				
1	0125	18	525.	1	0740	93	1807.	1	1355	168	0.	1	2010	243	0.				
1	0130	19	659.	1	0745	94	1524.	1	1400	169	0.	1	2015	244	0.				
1	0135	20	826.	1	0750	95	1278.	1	1405	170	0.	1	2020	245	0.				
1	0140	21	998.	1	0755	96	1067.	1	1410	171	0.	1	2025	246	0.				
1	0145	22	1156.	1	0800	97	886.	1	1415	172	0.	1	2030	247	0.				
1	0150	23	1292.	1	0805	98	733.	1	1420	173	0.	1	2035	248	0.				
1	0155	24	1400.	1	0810	99	605.	1	1425	174	0.	1	2040	249	0.				
1	0200	25	1490.	1	0815	100	498.	1	1430	175	0.	1	2045	250	0.				
1	0205	26	1581.	1	0820	101	409.	1	1435	176	0.	1	2050	251	0.				
1	0210	27	1698.	1	0825	102	335.	1	1440	177	0.	1	2055	252	0.				
1	0215	28	1867.	1	0830	103	275.	1	1445	178	0.	1	2100	253	0.				
1	0220	29	2091.	1	0835	104	226.	1	1450	179	0.	1	2105	254	0.				
1	0225	30	2331.	1	0840	105	185.	1	1455	180	0.	1	2110	255	0.				
1	0230	31	2541.	1	0845	106	152.	1	1500	181	0.	1	2115	256	0.				

1	0235	32	2719.	*	1	0850	107	124.	*	1	1505	182	0.	*	1	2120	257	0.					
1	0240	33	2928.	*	1	0855	108	102.	*	1	1510	183	0.	*	1	2125	258	0.					
1	0245	34	3211.	*	1	0900	109	83.	*	1	1515	184	0.	*	1	2130	259	0.					
1	0250	35	3518.	*	1	0905	110	67.	*	1	1520	185	0.	*	1	2135	260	0.					
1	0255	36	3776.	*	1	0910	111	54.	*	1	1525	186	0.	*	1	2140	261	0.					
1	0300	37	3998.	*	1	0915	112	43.	*	1	1530	187	0.	*	1	2145	262	0.					
1	0305	38	4282.	*	1	0920	113	34.	*	1	1535	188	0.	*	1	2150	263	0.					
1	0310	39	4709.	*	1	0925	114	27.	*	1	1540	189	0.	*	1	2155	264	0.					
1	0315	40	5324.	*	1	0930	115	21.	*	1	1545	190	0.	*	1	2200	265	0.					
1	0320	41	6278.	*	1	0935	116	16.	*	1	1550	191	0.	*	1	2205	266	0.					
1	0325	42	7686.	*	1	0940	117	12.	*	1	1555	192	0.	*	1	2210	267	0.					
1	0330	43	9467.	*	1	0945	118	9.	*	1	1600	193	0.	*	1	2215	268	0.					
1	0335	44	11256.	*	1	0950	119	7.	*	1	1605	194	0.	*	1	2220	269	0.					
1	0340	45	12488.	*	1	0955	120	5.	*	1	1610	195	0.	*	1	2225	270	0.					
1	0345	46	13509.	*	1	1000	121	4.	*	1	1615	196	0.	*	1	2230	271	0.					
1	0350	47	14794.	*	1	1005	122	3.	*	1	1620	197	0.	*	1	2235	272	0.					
1	0355	48	16389.	*	1	1010	123	2.	*	1	1625	198	0.	*	1	2240	273	0.					
1	0400	49	18362.	*	1	1015	124	2.	*	1	1630	199	0.	*	1	2245	274	0.					
1	0405	50	20663.	*	1	1020	125	1.	*	1	1635	200	0.	*	1	2250	275	0.					
1	0410	51	23140.	*	1	1025	126	1.	*	1	1640	201	0.	*	1	2255	276	0.					
1	0415	52	25776.	*	1	1030	127	1.	*	1	1645	202	0.	*	1	2300	277	0.					
1	0420	53	28645.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.					
1	0425	54	31730.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.					
1	0430	55	34987.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.					
1	0435	56	38269.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.					
1	0440	57	41275.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.					
1	0445	58	43739.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.					
1	0450	59	45562.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.					
1	0455	60	46635.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.					
1	0500	61	46783.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.					
1	0505	62	46004.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.					
1	0510	63	44442.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.					
1	0515	64	42292.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.					
1	0520	65	39761.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.					
1	0525	66	37046.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.					
1	0530	67	34318.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.					
1	0535	68	31697.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.					
1	0540	69	29267.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.					
1	0545	70	27078.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.					
1	0550	71	25133.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.					
1	0555	72	23383.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.					
1	0600	73	21773.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.					
1	0605	74	20257.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.					
1	0610	75	18788.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.					

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
	(CFS)				
+ 46783.	5.00	16257.	4112.	3960.	3960.
	(INCHES)	2.762	2.794	2.794	2.794
	(AC-FT)	8061.	8155.	8155.	8155.

CUMULATIVE AREA = 54.73 SQ MI

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 230 KK     *      RRDB  *
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 243 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          1  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL          0.  HYDROGRAPH PLOT SCALE

                HYDROGRAPH ROUTING DATA

 244 RS          STORAGE ROUTING
                      NSTPS          1  NUMBER OF SUBREACHES
                       ITYP       STOR  TYPE OF INITIAL CONDITION
                     RSVRIC      -1.00  INITIAL CONDITION
                          X        .00 WORKING R AND D COEFFICIENT

 245 SV            STORAGE         .0      9.0    107.0    231.0    372.0    529.0    705.0    903.0   1125.0   1376.0
                                1659.0   1974.0   2007.0   2115.0   2331.0   2690.0   2933.0

 247 SQ            DISCHARGE       0.      10.      57.      80.      99.     114.     128.     140.     151.     162.
                                 171.     181.     182.    8654.   33270.  110918.  163477.

 249 SE            ELEVATION    3161.00  3162.00  3167.00  3172.00  3177.00  3182.00  3187.00  3192.00  3197.00  3202.00
                                3207.00  3212.00  3212.50  3214.00  3217.00  3222.00  3225.00
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HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .99

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	3161.0 *	1		0820	101	715.	2013.8	3212.6 *	1		1640	201	178.	1895.0	3210.7
1		0005	2	0.	.0	3161.0 *	1		0825	102	590.	2012.2	3212.6 *	1		1645	202	178.	1893.8	3210.7
1		0010	3	0.	.0	3161.0 *	1		0830	103	486.	2010.9	3212.6 *	1		1650	203	178.	1892.5	3210.7
1		0015	4	0.	.0	3161.0 *	1		0835	104	400.	2009.8	3212.5 *	1		1655	204	178.	1891.3	3210.7
1		0020	5	0.	.1	3161.0 *	1		0840	105	329.	2008.9	3212.5 *	1		1700	205	178.	1890.1	3210.7
1		0025	6	0.	.4	3161.0 *	1		0845	106	270.	2008.1	3212.5 *	1		1705	206	178.	1888.8	3210.6
1		0030	7	1.	1.0	3161.1 *	1		0850	107	222.	2007.5	3212.5 *	1		1710	207	178.	1887.6	3210.6
1		0035	8	2.	2.1	3161.2 *	1		0855	108	182.	2007.0	3212.5 *	1		1715	208	178.	1886.4	3210.6
1		0040	9	4.	3.5	3161.4 *	1		0900	109	182.	2006.5	3212.5 *	1		1720	209	178.	1885.2	3210.6
1		0045	10	6.	5.0	3161.6 *	1		0905	110	182.	2005.8	3212.5 *	1		1725	210	178.	1883.9	3210.6
1		0050	11	7.	6.5	3161.7 *	1		0910	111	182.	2005.0	3212.5 *	1		1730	211	178.	1882.7	3210.6
1		0055	12	9.	7.9	3161.9 *	1		0915	112	182.	2004.1	3212.5 *	1		1735	212	178.	1881.5	3210.5
1		0100	13	10.	9.5	3162.0 *	1		0920	113	182.	2003.2	3212.4 *	1		1740	213	178.	1880.3	3210.5
1		0105	14	11.	11.4	3162.1 *	1		0925	114	182.	2002.2	3212.4 *	1		1745	214	178.	1879.0	3210.5
1		0110	15	12.	13.9	3162.2 *	1		0930	115	182.	2001.1	3212.4 *	1		1750	215	178.	1877.8	3210.5
1		0115	16	14.	17.1	3162.4 *	1		0935	116	182.	2000.0	3212.4 *	1		1755	216	178.	1876.6	3210.5
1		0120	17	16.	21.1	3162.6 *	1		0940	117	182.	1998.9	3212.4 *	1		1800	217	178.	1875.4	3210.4
1		0125	18	18.	26.1	3162.9 *	1		0945	118	182.	1997.7	3212.4 *	1		1805	218	178.	1874.1	3210.4
1		0130	19	21.	32.3	3163.2 *	1		0950	119	182.	1996.5	3212.3 *	1		1810	219	178.	1872.9	3210.4
1		0135	20	25.	39.9	3163.6 *	1		0955	120	182.	1995.3	3212.3 *	1		1815	220	178.	1871.7	3210.4
1		0140	21	29.	49.1	3164.0 *	1		1000	121	182.	1994.1	3212.3 *	1		1820	221	178.	1870.5	3210.4
1		0145	22	34.	59.8	3164.6 *	1		1005	122	182.	1992.9	3212.3 *	1		1825	222	178.	1869.2	3210.3
1		0150	23	40.	71.9	3165.2 *	1		1010	123	182.	1991.6	3212.3 *	1		1830	223	178.	1868.0	3210.3
1		0155	24	46.	85.0	3165.9 *	1		1015	124	181.	1990.4	3212.2 *	1		1835	224	178.	1866.8	3210.3
1		0200	25	53.	98.9	3166.6 *	1		1020	125	181.	1989.2	3212.2 *	1		1840	225	178.	1865.6	3210.3
1		0205	26	58.	113.6	3167.3 *	1		1025	126	181.	1987.9	3212.2 *	1		1845	226	178.	1864.3	3210.3
1		0210	27	61.	129.1	3167.9 *	1		1030	127	181.	1986.7	3212.2 *	1		1850	227	177.	1863.1	3210.2
1		0215	28	64.	145.8	3168.6 *	1		1035	128	181.	1985.4	3212.2 *	1		1855	228	177.	1861.9	3210.2
1		0220	29	68.	164.0	3169.3 *	1		1040	129	181.	1984.2	3212.2 *	1		1900	229	177.	1860.7	3210.2
1		0225	30	71.	184.0	3170.1 *	1		1045	130	181.	1982.9	3212.1 *	1		1905	230	177.	1859.5	3210.2
1		0230	31	75.	205.8	3171.0 *	1		1050	131	181.	1981.7	3212.1 *	1		1910	231	177.	1858.2	3210.2
1		0235	32	80.	229.1	3171.9 *	1		1055	132	181.	1980.5	3212.1 *	1		1915	232	177.	1857.0	3210.1
1		0240	33	83.	253.9	3172.8 *	1		1100	133	181.	1979.2	3212.1 *	1		1920	233	177.	1855.8	3210.1
1		0245	34	87.	280.7	3173.8 *	1		1105	134	181.	1978.0	3212.1 *	1		1925	234	177.	1854.6	3210.1
1		0250	35	91.	309.9	3174.8 *	1		1110	135	181.	1976.7	3212.0 *	1		1930	235	177.	1853.3	3210.1
1		0255	36	95.	341.4	3175.9 *	1		1115	136	181.	1975.5	3212.0 *	1		1935	236	177.	1852.1	3210.1
1		0300	37	99.	374.7	3177.1 *	1		1120	137	181.	1974.2	3212.0 *	1		1940	237	177.	1850.9	3210.0
1		0305	38	103.	410.1	3178.2 *	1		1125	138	181.	1973.0	3212.0 *	1		1945	238	177.	1849.7	3210.0
1		0310	39	106.	448.3	3179.4 *	1		1130	139	181.	1971.7	3212.0 *	1		1950	239	177.	1848.5	3210.0
1		0315	40	110.	490.7	3180.8 *	1		1135	140	181.	1970.5	3211.9 *	1		1955	240	177.	1847.3	3210.0
1		0320	41	115.	539.4	3182.3 *	1		1140	141	181.	1969.2	3211.9 *	1		2000	241	177.	1846.0	3210.0
1		0325	42	119.	597.6	3183.9 *	1		1145	142	181.	1968.0	3211.9 *	1		2005	242	177.	1844.8	3209.9
1		0330	43	125.	668.5	3186.0 *	1		1150	143	181.	1966.7	3211.9 *	1		2010	243	177.	1843.6	3209.9
1		0335	44	131.	753.5	3188.2 *	1		1155	144	181.	1965.5	3211.9 *	1		2015	244	177.	1842.4	3209.9
1		0340	45	137.	850.3	3190.7 *	1		1200	145	181.	1964.3	3211.8 *	1		2020	245	177.	1841.2	3209.9
1		0345	46	143.	956.1	3193.2 *	1		1205	146	181.	1963.0	3211.8 *	1		2025	246	177.	1839.9	3209.9
1		0350	47	148.	1071.0	3195.8 *	1		1210	147	181.	1961.8	3211.8 *	1		2030	247	177.	1838.7	3209.9
1		0355	48	154.	1197.3	3198.4 *	1		1215	148	181.	1960.5	3211.8 *	1		2035	248	177.	1837.5	3209.8
1		0400	49	160.	1337.8	3201.2 *	1		1220	149	181.	1959.3	3211.8 *	1		2040	249	177.	1836.3	3209.8
1		0405	50	166.	1495.2	3204.1 *	1		1225	150	180.	1958.0	3211.7 *	1		2045	250	177.	1835.1	3209.8
1		0410	51	171.	1671.5	3207.2 *	1		1230	151	180.	1956.8	3211.7 *	1		2050	251	177.	1833.9	3209.8
1		0415	52	178.	1868.0	3210.3 *	1		1235	152	180.	1955.5	3211.7 *	1		2055	252	177.	1832.6	3209.8
1		0420	53	5073.	2069.3	3213.4 *	1		1240	153	180.	1954.3	3211.7 *	1		2100	253	176.	1831.4	3209.7
1		0425	54	20930.	2222.7	3215.5 *	1		1245	154	180.	1953.1	3211.7 *	1		2105	254	176.	1830.2	3209.7
1		0430	55	31057.	2311.6	3216.7 *	1		1250	155	180.	1951.8	3211.6 *	1		2110	255	176.	1829.0	3209.7
1		0435	56	39796.	2361.2	3217.4 *	1		1255	156	180.	1950.6	3211.6 *	1		2115	256	176.	1827.8	3209.7
1		0440	57	45267.	2386.5	3217.8 *	1		1300	157	180.	1949.3	3211.6 *	1		2120	257	176.	1826.6	3209.7
1		0445	58	48710.	2402.4	3218.0 *	1		1305	158	180.	1948.1	3211.6 *	1		2125	258	176.	1825.4	3209.6
1		0450	59	51272.	2414.2	3218.2 *	1		1310	159	180.	1946.9	3211.6 *	1		2130	259	176.	1824.1	3209.6
1		0455	60	53018.	2422.3	3218.3 *	1		1315	160	180.	1945.6	3211.5 *	1		2135	260	176.	1822.9	3209.6
1		0500	61	53820.	2426.0	3218.3 *	1		1320	161	180.	1944.4	3211.5 *	1		2140	261	176.	1821.7	3209.6
1		0505	62	53572.	2424.9	3218.3 *	1		1325	162	180.	1943.1	3211.5 *	1		2145	262	176.	1820.5	3209.6
1		0510	63	52335.	2419.1	3218.2 *	1		1330	163	180.	1941.9	3211.5 *	1		2150	263	176.	1819.3	3209.5
1		0515	64	50284.	2409.7	3218.1 *	1		1335	164	180.	1940.7	3211.5 *	1		2155	264	176.	1818.1	3209.5
1		0520	65	47645.	2397.5	3217.9 *	1		1340	165	180.	1939.4	3211.5 *	1		2200	265	176.	1816.9	3209.5
1		0525	66	44648.	2383.6	3217.7 *	1		1345	166	180.	1938.2	3211.4 *	1		2205	266	176.	1815.6	3209.5
1		0530	67	41508.	2369.1	3217.5 *	1		1350	167	180.	1936.9	3211.4 *	1		2210	267	176.	1814.4	3209.5
1		0535	68	38398.	2354.7	3217.3 *	1		1355	168	180.	1935.7	3211.4 *	1		2215	268	176.	1813.2	3209.4
1		0540	69	35444.	2341.0	3217.1 *	1		1400	169	180.	1934.5	3211.4 *	1		2220	269	176.	1812.0	3209.4
1		0545	70	32912.	2327.9	3217.0 *	1		1405	170	180.	1933.2	3211.4 *	1		2225	270	176.	1810.8	3209.4
1		0550	71	31198.	2312.8	3216.7 *	1		1410	171	180.	1932.0	3211.3 *	1		2230	271	176.	1809.6	3209.4
1		0555	72	29246.	2295.7	3216.5 *	1		1415	172	180.	1930.8	3211.3 *	1		2235	272	176.	1808.4	3209.4
1		0600	73	27301.	2278.6	3216.3 *	1		1420	173	180.	1929.5	3211.3 *	1		2240	273	176.	1807.2	3209.4
1		0605	74	25436.	2262.3	3216.0 *	1		1425	174	180.	1928.3	3211.3 *	1		2245	274	176.	1806.0	3209.3
1		0610	75	23654.	2246.6	3215.8 *	1		1430	175	180.	1927.0	3211.3 *	1		2250	275	176.	1804.8	3209.3
1		0615	76	21930.	2231.5	3215.6 *	1		1435	176	179.	1925.8	3211.2 *	1		2255	276	176.	1803.5	3209.3
1		0620	77	20241.	2216.7	3215.4 *	1		1440	177	179.	1924.6	3211.2 *	1		2300	277	176.	1802.3	3209.3
1		0625	78	18573.	2202.0	3215.2 *	1		1445	178	179.	1923.3	3211.2 *	1		2305	278	176.	1801.1	3209.3
1		0630	79	16926.	2187.6	3215.0 *	1		1450	179	179.	1922.1	3211.2 *	1		2310	279	175.	1799.9	3209.2
1		0635	80	15309.	2173.4	3214.8 *	1		1455	180	179.	1920.9	3211.2 *	1		2315	280	175.	1798.7	3209.2
1		0640	81	13742.	2159.6	3214.6 *	1		1500	181	179.	1919.6	3211.1 *	1		2320	281	175.	1797.5	3209.2
1		0645	82	12245.	2146.5	3214.4 *	1		1505	182	179.	1918.4	3211.1 *	1		2325	282	175.	1796.3	3209.2
1		0650	83	10839.	2134.2	3214.3 *	1		1510	183	179.	1917.2	3211.1 *	1		2330	283	175.	1795.1	3209.2
1		0655	84	9539.	2122.8	3214.1 *	1		1515	184	179.	1915.9	3211.1 *	1		2335	284	175.	1793.9	3209.1
1		0700	85	8429.	2112.1	3214.0 *	1		1520	185	179.	1914.7	3211.1 *	1		2340	285	175.	1792.7	3209.1
1		0705	86	7595.	2101.5	3213.8 *	1		1525	186	179.	1913.5	3211.0 *	1		2345	286	175.	1791.5	3209.1

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0710	87	6749.	2090.7	3213.7	*	1		1530	187	179.	1912.2	3211.0	*	1		2350	287	175.	1790.3	3209.1
1		0715	88	5942.	2080.4	3213.5	*	1		1535	188	179.	1911.0	3211.0	*	1		2355	288	175.	1789.1	3209.1
1		0720	89	5195.	2070.9	3213.4	*	1		1540	189	179.	1909.8	3211.0	*	2		0000	289	175.	1787.8	3209.0
1		0725	90	4516.	2062.3	3213.3	*	1		1545	190	179.	1908.5	3211.0	*	2		0005	290	175.	1786.6	3209.0
1		0730	91	3907.	2054.5	3213.2	*	1		1550	191	179.	1907.3	3210.9	*	2		0010	291	175.	1785.4	3209.0
1		0735	92	3365.	2047.6	3213.1	*	1		1555	192	179.	1906.1	3210.9	*	2		0015	292	175.	1784.2	3209.0
1		0740	93	2886.	2041.5	3213.0	*	1		1600	193	179.	1904.8	3210.9	*	2		0020	293	175.	1783.0	3209.0
1		0745	94	2463.	2036.1	3212.9	*	1		1605	194	179.	1903.6	3210.9	*	2		0025	294	175.	1781.8	3208.9
1		0750	95	2092.	2031.3	3212.8	*	1		1610	195	179.	1902.4	3210.9	*	2		0030	295	175.	1780.6	3208.9
1		0755	96	1768.	2027.2	3212.8	*	1		1615	196	179.	1901.1	3210.8	*	2		0035	296	175.	1779.4	3208.9
1		0800	97	1488.	2023.6	3212.7	*	1		1620	197	179.	1899.9	3210.8	*	2		0040	297	175.	1778.2	3208.9
1		0805	98	1246.	2020.6	3212.7	*	1		1625	198	179.	1898.7	3210.8	*	2		0045	298	175.	1777.0	3208.9
1		0810	99	1039.	2017.9	3212.7	*	1		1630	199	179.	1897.4	3210.8	*	2		0050	299	175.	1775.8	3208.9
1		0815	100	863.	2015.7	3212.6	*	1		1635	200	179.	1896.2	3210.8	*	2		0055	300	175.	1774.6	3208.8

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 53820.	5.00		15104.	3896.	3753.	3753.
		(INCHES)	2.566	2.647	2.647	2.647
		(AC-FT)	7490.	7728.	7728.	7728.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
2426.	5.00	2143.	1744.	1679.	1679.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3218.32	5.00	3214.38	3206.71	3205.04	3205.04

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .98

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	3161.0	*	1		0820	101	702.	2013.6	3212.6	*	1		1640	201	178.	1894.9	3210.7
1		0005	2	0.	.0	3161.0	*	1		0825	102	580.	2012.1	3212.6	*	1		1645	202	178.	1893.7	3210.7
1		0010	3	0.	.0	3161.0	*	1		0830	103	478.	2010.8	3212.6	*	1		1650	203	178.	1892.4	3210.7
1		0015	4	0.	.0	3161.0	*	1		0835	104	393.	2009.7	3212.5	*	1		1655	204	178.	1891.2	3210.7
1		0020	5	0.	.1	3161.0	*	1		0840	105	323.	2008.8	3212.5	*	1		1700	205	178.	1890.0	3210.7
1		0025	6	0.	.4	3161.0	*	1		0845	106	266.	2008.1	3212.5	*	1		1705	206	178.	1888.7	3210.6
1		0030	7	1.	.9	3161.1	*	1		0850	107	218.	2007.5	3212.5	*	1		1710	207	178.	1887.5	3210.6
1		0035	8	2.	2.0	3161.2	*	1		0855	108	182.	2006.9	3212.5	*	1		1715	208	178.	1886.3	3210.6
1		0040	9	4.	3.3	3161.4	*	1		0900	109	182.	2006.4	3212.5	*	1		1720	209	178.	1885.1	3210.6
1		0045	10	5.	4.7	3161.5	*	1		0905	110	182.	2005.7	3212.5	*	1		1725	210	178.	1883.8	3210.6
1		0050	11	7.	6.1	3161.7	*	1		0910	111	182.	2004.9	3212.5	*	1		1730	211	178.	1882.6	3210.5
1		0055	12	8.	7.5	3161.8	*	1		0915	112	182.	2004.1	3212.5	*	1		1735	212	178.	1881.4	3210.5
1		0100	13	10.	8.9	3162.0	*	1		0920	113	182.	2003.1	3212.4	*	1		1740	213	178.	1880.2	3210.5
1		0105	14	11.	10.7	3162.1	*	1		0925	114	182.	2002.1	3212.4	*	1		1745	214	178.	1878.9	3210.5
1		0110	15	12.	13.1	3162.2	*	1		0930	115	182.	2001.0	3212.4	*	1		1750	215	178.	1877.7	3210.5
1		0115	16	13.	16.0	3162.4	*	1		0935	116	182.	1999.9	3212.4	*	1		1755	216	178.	1876.5	3210.5
1		0120	17	15.	19.9	3162.6	*	1		0940	117	182.	1998.8	3212.4	*	1		1800	217	178.	1875.2	3210.4
1		0125	18	17.	24.6	3162.8	*	1		0945	118	182.	1997.6	3212.4	*	1		1805	218	178.	1874.0	3210.4
1		0130	19	20.	30.4	3163.1	*	1		0950	119	182.	1996.4	3212.3	*	1		1810	219	178.	1872.8	3210.4
1		0135	20	24.	37.6	3163.5	*	1		0955	120	182.	1995.2	3212.3	*	1		1815	220	178.	1871.6	3210.4
1		0140	21	28.	46.3	3163.9	*	1		1000	121	182.	1994.0	3212.3	*	1		1820	221	178.	1870.4	3210.4
1		0145	22	33.	56.5	3164.4	*	1		1005	122	182.	1992.8	3212.3	*	1		1825	222	178.	1869.1	3210.3
1		0150	23	38.	68.0	3165.0	*	1		1010	123	182.	1991.5	3212.3	*	1		1830	223	178.	1867.9	3210.3
1		0155	24	44.	80.5	3165.6	*	1		1015	124	181.	1990.3	3212.2	*	1		1835	224	178.	1866.7	3210.3
1		0200	25	51.	93.8	3166.3	*	1		1020	125	181.	1989.1	3212.2	*	1		1840	225	178.	1865.5	3210.3
1		0205	26	57.	107.8	3167.0	*	1		1025	126	181.	1987.8	3212.2	*	1		1845	226	178.	1864.2	3210.3
1		0210	27	60.	122.7	3167.6	*	1		1030	127	181.	1986.6	3212.2	*	1		1850	227	177.	1863.0	3210.2
1		0215	28	63.	138.6	3168.3	*	1		1035	128	181.	1985.3	3212.2	*	1		1855	228	177.	1861.8	3210.2
1		0220	29	66.	156.0	3169.0	*	1		1040	129	181.	1984.1	3212.2	*	1		1900	229	177.	1860.6	3210.2
1		0225	30	70.	175.3	3169.8	*	1		1045	130	181.	1982.8	3212.1	*	1		1905	230	177.	1859.3	3210.2
1		0230	31	74.	196.3	3170.6	*	1		1050	131	181.	1981.6	3212.1	*	1		1910	231	177.	1858.1	3210.2
1		0235	32	78.	218.8	3171.5	*	1		1055	132	181.	1980.3	3212.1	*	1		1915	232	177.	1856.9	3210.1
1		0240	33	82.	242.7	3172.4	*	1		1100	133	181.	1979.1	3212.1	*	1		1920	233	177.	1855.7	3210.1
1		0245	34	85.	268.6	3173.3	*	1		1105	134	181.	1977.8	3212.1	*	1		1925	234	177.	1854.5	3210.1
1		0250	35	89.	296.9	3174.3	*	1		1110	135	181.	1976.6	3212.0	*	1		1930	235	177.	1853.2	3210.1
1		0255	36	93.	327.3	3175.4	*	1		1115	136	181.	1975.4	3212.0	*	1		1935	236	177.	1852.0	3210.1
1		0300	37	97.	359.6	3176.6	*	1		1120	137	181.	1974.1	3212.0	*	1		1940	237	177.	1850.8	3210.0
1		0305	38	101.	393.9	3177.7	*	1		1125	138	181.	1972.9	3212.0	*	1		1945	238	177.	1849.6	3210.0
1		0310	39	105.	430.9	3178.9	*	1		1130	139	181.	1971.6	3212.0	*	1		1950	239	177.	1848.4	3210.0
1		0315	40	109.	472.1	3180.2	*	1		1135	140	181.	1970.4	3211.9	*	1		1955	240	177.	1847.1	3210.0
1		0320	41	113.	519.5	3181.7	*	1		1140	141	181.	1969.1	3211.9	*	1		2000	241	177.	1845.9	3210.0
1		0325	42	118.	576.1	3183.3	*	1		1145	142	181.	1967.9	3211.9	*	1		2005	242	177.	1844.7	3209.9
1		0330	43	123.	645.2	3185.3	*	1		1150	143	181.	1966.6	3211.9	*	1		2010	243	177.	1843.5	3209.9
1		0335	44	129.	728.1	3187.6	*	1		1155	144	181.	1965.4	3211.9	*	1		2015	244	177.	1842.3	3209.9
1		0340	45	135.	822.7	3190.0	*	1		1200	145	181.	1964.1	3211.8	*	1		2020	245	177.	1841.1	3209.9
1		0345	46	141.	926.0	3192.5	*	1		1205	146	181.	1962.9	3211.8	*	1		2025	246	177.	1839.8	3209.9
1		0350	47	147.	1038.3	3195.0	*	1		1210	147	181.	1961.7	3211.8	*	1		2030	247	177.	1838.6	3209.9
1		0355	48	153.	1161.8	3197.7	*	1		1215	148	181.	1960.4	3211.8	*	1		2035	248	177.	1837.4	3209.8
1		0400	49	159.	1299.2	3200.5	*	1		1220	149	181.	1959.2	3211.8	*	1		2040	249	177.	1836.2	3209.8
1		0405	50	164.	1453.2	3203.4	*	1		1225	150	180.	1957.9	3211.7	*	1		2045	250	177.	1835.0	3209.8
1		0410	51	170.	1625.7	3206.4	*	1		1230	151	180.	1956.7	3211.7	*	1		2050	251	177.	1833.8	3209.8
1		0415	52	176.	1818.0	3209.5	*	1		1235	152	180.	1955.4	3211.7	*	1		2055	252	177.	1832.5	3209.8
1		0420	53	1703.	2026.4	3212.8	*	1		1240	153	180.	1954.2	3211.7	*	1		2100	253	176.	1831.3	3209.7
1		0425	54	17955.	2196.6	3215.1	*	1		1245	154	180.	1953.0	3211.7	*	1		2105	254	176.	1830.1	3209.7
1		0430	55	29312.	2296.3	3216.5	*	1		1250	155	180.	1951.7	3211.6	*	1		2110	255	176.	1828.9	3209.7
1		0435	56	37909.	2352.4	3217.3	*	1		1255	156	180.	1950.5	3211.6	*	1		2115	256	176.	1827.7	3209.7
1		0440	57	44204.	2381.6	3217.7	*	1		1300	157	180.	1949.2	3211.6	*	1		2120	257	176.	1826.5	3209.7
1		0445	58	47725.	2397.8	3217.9	*	1		1305	158	180.	1948.0	3211.6	*	1		2125	258	176.	1825.3	3209.6
1		0450	59	50266.	2409.6	3218.1	*	1		1310	159	180.	1946.7	3211.6	*	1		2130	259	176.	1824.0	3209.6
1		0455	60	51990.	2417.6	3218.2	*	1		1315	160	180.	1945.5	3211.5	*	1		2135	260	176.	1822.8	3209.6
1		0500	61	52785.	2421.2	3218.3	*	1		1320	161	180.	1944.3	3211.5	*	1		2140	261	176.	1821.6	3209.6
1		0505	62	52550.	2420.1	3218.2	*	1		1325	162	180.	1943.0	3211.5	*	1		2145	262	176.	1820.4	3209.6
1		0510	63	51344.	2414.6	3218.2	*	1		1330	163	180.	1941.8	3211.5	*	1		2150	263	176.	1819.2	3209.5
1		0515	64	49338.	2405.3	3218.0	*	1		1335	164	180.	1940.5	3211.5	*	1		2155	264	176.	1818.0	3209.5
1		0520	65	46754.	2393.3	3217.9	*	1		1340	165	180.	1939.3	3211.4	*	1		2200	265	176.	1816.8	3209.5
1		0525	66	43819.	2379.8	3217.7	*	1		1345	166	180.	1938.1	3211.4	*	1		2205	266	176.	1815.5	3209.5
1		0530	67	40742.	2365.5	3217.5	*	1		1350	167	180.	1936.8	3211.4	*	1		2210	267	176.	1814.3	3209.5
1		0535	68	37694.	2351.5	3217.3	*	1		1355	168	180.	1935.6	3211.4	*	1		2215	268	176.	1813.1	3209.4
1		0540	69	34798.	2338.1	3217.1	*	1		1400	169	180.	1934.4	3211.4	*	1		2220	269	176.	1811.9	3209.4
1		0545	70	32521.	2324.4	3216.9	*	1		1405	170	180.	1933.1	3211.4	*	1		2225	270	176.	1810.7	3209.4
1		0550	71	30725.	2308.7	3216.7	*	1		1410	171	180.	1931.9	3211.3	*	1		2230	271	176.	1809.5	3209.4
1		0555	72	28760.	2291.4	3216.5	*	1		1415	172	180.	1930.6	3211.3	*	1		2235	272	176.	1808.3	3209.4
1		0600	73	26830.	2274.5	3216.2	*	1		1420	173	180.	1929.4	3211.3	*	1		2240	273	176.	1807.1	3209.4
1		0605	74	24991.	2258.4	3216.0	*	1		1425	174	180.	1928.2	3211.3	*	1		2245	274	176.	1805.9	3209.3
1		0610	75	23238.	2243.0	3215.8	*	1		1430	175	180.	1926.9	3211.3	*	1		2250	275	176.	1804.6	3209.3
1		0615	76	21545.	2228.1	3215.6	*	1		1435	176	179.	1925.7	3211.2	*	1		2255	276	176.	1803.4	3209.3
1		0620	77	19887.	2213.6	3215.4	*	1		1440	177	179.	1924.5	3211.2	*	1		2300	277	176.	1802.2	3209.3
1		0625	78	18249.	2199.2	3215.2	*	1		1445	178	179.	1923.2	3211.2	*	1		2305	278	176.	1801.0	3209.3
1		0630	79	16631.	2185.0	3215.0	*	1		1450	179	179.	1922.0	3211.2	*	1		2310	279	175.	1799.8	3209.2
1		0635	80	15043.	2171.1	3214.8	*	1		1455	180	179.	1920.8	3211.2	*	1		2315	280	175.	1798.6	3209.2
1		0640	81	13504.	2157.6	3214.6	*	1		1500	181	179.	1919.5	3211.1	*	1		2320	281	175.	1797.4	3209.2
1		0645	82	12033.	2144.7	3214.4	*	1		1505	182	179.	1918.3	3211.1	*	1		2325	282	175.	1796.2	3209.2
1		0650	83	10652.	2132.5	3214.2	*	1		1510	183	179.	1917.1	3211.1	*	1		2330	283	175.	1795.0	3209.2
1		0655	84	9375.	2121.3	3214.1	*	1		1515	184	179.	1915.8	3211.1	*	1		2335	284	175.	1793.8	3209.1
1		0700	85	8321.	2110.8	3213.9	*	1		1520	185	179.	1914.6	3211.1	*	1		2340	285	175.	1792.6	3209.1
1		0705	86	7485.	2100.1	3213.8	*	1		1525	186	179.	1913.4	3211.0	*	1		2345	286	175.	1791.4	3209.1
1		0710	87	6646.	2089.4	3213.6	*	1		1530	187	179.	1912.1	3211.0	*	1		2350	287	175.	1790.2	3209.1
1		0715	88	5847.	2079.2	3213.5	*	1		1535	188	179.	1910.9	3211.0	*	1		2355	288	175.	1788.9	3209.1
1		0720	89	5110.	2069.8	3213.4	*	1		1540	189	179.	1909.7	3211.0	*	2		0000	289	175.	1787.7	3209.0
1		0725	90	4441.	2061.3	3213.3	*	1		1545	190	179.	1908.4	3211.0	*	2		0005	290	175.	1786.5	3209.0
1		0730	91	3842.	2053.7	3213.1	*	1		1550	191	179.	1907.2	3210.9	*	2		0010	291	175.	1785.3	3209.0
1		0735	92	3309.	2046.9	3213.1	*	1		1555	192	179.	1906.0	3210.9	*	2		0015	292	175.	1784.1	3209.0
1		0740	93	2837.	2040.8	3213.0	*	1		1600	193	179.	1904.7	3210.9	*	2		0020	293	175.	1782.9	3209.0
1		0745	94	2421.	2035.5	3212.9	*	1		1605	194	179.	1903.5	3210.9	*	2		0025	294	175.	1781.7	3208.9
1		0750	95	2056.	2030.9	3212.8	*	1		1610	195	179.	1902.3	3210.9	*	2		0030	295	175.	1780.5	3208.9
1		0755	96	1738.	2026.8	3212.8	*	1		1615	196	179.	1901.0	3210.8	*	2		0035	296	175.	1779.3	3208.9
1		0800	97	1462.	2023.3	3212.7	*	1		1620	197	179.	1899.8	3210.8	*	2		0040	297	175.	1778.1	3208.9
1		0805	98	1225.	2020.3	3212.7	*	1		1625	198	179.	1898.6	3210.8	*	2		0045	298	175.	1776.9	3208.9
1		0810	99	1021.	2017.7	3212.6	*	1		1630	199	179.	1897.3	3210.8	*	2		0050	299	175.	1775.7	3208.9
1		0815	100	848.	2015.5	3212.6	*	1		1635	200	179.	1896.1	3210.8	*	2		0055	300	175.	1774.5	3208.8

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 52785.	5.00		14716.	3799.	3659.	3659.
		(INCHES)	2.500	2.581	2.581	2.581
		(AC-FT)	7297.	7535.	7535.	7535.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
2421.	5.00	2140.	1741.	1677.	1677.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3218.26	5.00	3214.35	3206.64	3204.97	3204.97

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .95

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	3161.0	*	1		0820	101	682.	2013.4	3212.6	*	1		1640	201	178.	1894.7	3210.7
1		0005	2	0.	.0	3161.0	*	1		0825	102	563.	2011.9	3212.6	*	1		1645	202	178.	1893.5	3210.7
1		0010	3	0.	.0	3161.0	*	1		0830	103	464.	2010.6	3212.6	*	1		1650	203	178.	1892.2	3210.7
1		0015	4	0.	.0	3161.0	*	1		0835	104	382.	2009.6	3212.5	*	1		1655	204	178.	1891.0	3210.7
1		0020	5	0.	.1	3161.0	*	1		0840	105	314.	2008.7	3212.5	*	1		1700	205	178.	1889.8	3210.7
1		0025	6	0.	.3	3161.0	*	1		0845	106	258.	2008.0	3212.5	*	1		1705	206	178.	1888.6	3210.6
1		0030	7	1.	.8	3161.1	*	1		0850	107	212.	2007.4	3212.5	*	1		1710	207	178.	1887.3	3210.6
1		0035	8	2.	1.8	3161.2	*	1		0855	108	182.	2006.9	3212.5	*	1		1715	208	178.	1886.1	3210.6

1	0040	9	3.	3.0	3161.3	*	1	0900	109	182.	2006.3	3212.5	*	1	1720	209	178.	1884.9	3210.6
1	0045	10	5.	4.3	3161.5	*	1	0905	110	182.	2005.6	3212.5	*	1	1725	210	178.	1883.7	3210.6
1	0050	11	6.	5.6	3161.6	*	1	0910	111	182.	2004.8	3212.5	*	1	1730	211	178.	1882.4	3210.5
1	0055	12	8.	6.8	3161.8	*	1	0915	112	182.	2003.9	3212.5	*	1	1735	212	178.	1881.2	3210.5
1	0100	13	9.	8.1	3161.9	*	1	0920	113	182.	2003.0	3212.4	*	1	1740	213	178.	1880.0	3210.5
1	0105	14	10.	9.7	3162.0	*	1	0925	114	182.	2001.9	3212.4	*	1	1745	214	178.	1878.7	3210.5
1	0110	15	11.	11.8	3162.1	*	1	0930	115	182.	2000.9	3212.4	*	1	1750	215	178.	1877.5	3210.5
1	0115	16	13.	14.4	3162.3	*	1	0935	116	182.	1999.7	3212.4	*	1	1755	216	178.	1876.3	3210.4
1	0120	17	14.	17.9	3162.5	*	1	0940	117	182.	1998.6	3212.4	*	1	1800	217	178.	1875.1	3210.4
1	0125	18	16.	22.1	3162.7	*	1	0945	118	182.	1997.4	3212.4	*	1	1805	218	178.	1873.8	3210.4
1	0130	19	19.	27.4	3162.9	*	1	0950	119	182.	1996.2	3212.3	*	1	1810	219	178.	1872.6	3210.4
1	0135	20	22.	34.0	3163.3	*	1	0955	120	182.	1995.0	3212.3	*	1	1815	220	178.	1871.4	3210.4
1	0140	21	26.	41.9	3163.7	*	1	1000	121	182.	1993.8	3212.3	*	1	1820	221	178.	1870.2	3210.4
1	0145	22	30.	51.3	3164.2	*	1	1005	122	182.	1992.6	3212.3	*	1	1825	222	178.	1869.0	3210.3
1	0150	23	35.	61.8	3164.7	*	1	1010	123	182.	1991.4	3212.3	*	1	1830	223	178.	1867.7	3210.3
1	0155	24	41.	73.3	3165.3	*	1	1015	124	181.	1990.1	3212.2	*	1	1835	224	178.	1866.5	3210.3
1	0200	25	47.	85.6	3165.9	*	1	1020	125	181.	1988.9	3212.2	*	1	1840	225	178.	1865.3	3210.3
1	0205	26	53.	98.5	3166.6	*	1	1025	126	181.	1987.6	3212.2	*	1	1845	226	178.	1864.1	3210.3
1	0210	27	58.	112.2	3167.2	*	1	1030	127	181.	1986.4	3212.2	*	1	1850	227	177.	1862.8	3210.2
1	0215	28	61.	127.0	3167.8	*	1	1035	128	181.	1985.2	3212.2	*	1	1855	228	177.	1861.6	3210.2
1	0220	29	64.	143.3	3168.5	*	1	1040	129	181.	1983.9	3212.2	*	1	1900	229	177.	1860.4	3210.2
1	0225	30	67.	161.2	3169.2	*	1	1045	130	181.	1982.7	3212.1	*	1	1905	230	177.	1859.2	3210.2
1	0230	31	71.	180.9	3170.0	*	1	1050	131	181.	1981.4	3212.1	*	1	1910	231	177.	1857.9	3210.2
1	0235	32	75.	202.0	3170.8	*	1	1055	132	181.	1980.2	3212.1	*	1	1915	232	177.	1856.7	3210.1
1	0240	33	79.	224.5	3171.7	*	1	1100	133	181.	1978.9	3212.1	*	1	1920	233	177.	1855.5	3210.1
1	0245	34	82.	248.9	3172.6	*	1	1105	134	181.	1977.7	3212.1	*	1	1925	234	177.	1854.3	3210.1
1	0250	35	86.	275.6	3173.6	*	1	1110	135	181.	1976.4	3212.0	*	1	1930	235	177.	1853.1	3210.1
1	0255	36	90.	304.4	3174.6	*	1	1115	136	181.	1975.2	3212.0	*	1	1935	236	177.	1851.8	3210.1
1	0300	37	94.	335.0	3175.7	*	1	1120	137	181.	1973.9	3212.0	*	1	1940	237	177.	1850.6	3210.0
1	0305	38	98.	367.4	3176.8	*	1	1125	138	181.	1972.7	3212.0	*	1	1945	238	177.	1849.4	3210.0
1	0310	39	102.	402.6	3178.0	*	1	1130	139	181.	1971.4	3212.0	*	1	1950	239	177.	1848.2	3210.0
1	0315	40	106.	441.7	3179.2	*	1	1135	140	181.	1970.2	3211.9	*	1	1955	240	177.	1847.0	3210.0
1	0320	41	110.	486.8	3180.7	*	1	1140	141	181.	1968.9	3211.9	*	1	2000	241	177.	1845.8	3210.0
1	0325	42	115.	540.8	3182.3	*	1	1145	142	181.	1967.7	3211.9	*	1	2005	242	177.	1844.5	3209.9
1	0330	43	120.	606.8	3184.2	*	1	1150	143	181.	1966.5	3211.9	*	1	2010	243	177.	1843.3	3209.9
1	0335	44	127.	686.3	3186.5	*	1	1155	144	181.	1965.2	3211.9	*	1	2015	244	177.	1842.1	3209.9
1	0340	45	132.	777.0	3188.8	*	1	1200	145	181.	1964.0	3211.8	*	1	2020	245	177.	1840.9	3209.9
1	0345	46	138.	876.2	3191.3	*	1	1205	146	181.	1962.7	3211.8	*	1	2025	246	177.	1839.7	3209.9
1	0350	47	144.	984.1	3193.8	*	1	1210	147	181.	1961.5	3211.8	*	1	2030	247	177.	1838.4	3209.8
1	0355	48	150.	1102.9	3196.5	*	1	1215	148	181.	1960.2	3211.8	*	1	2035	248	177.	1837.2	3209.8
1	0400	49	156.	1235.0	3199.2	*	1	1220	149	181.	1959.0	3211.8	*	1	2040	249	177.	1836.0	3209.8
1	0405	50	162.	1383.3	3202.1	*	1	1225	150	180.	1957.7	3211.7	*	1	2045	250	177.	1834.8	3209.8
1	0410	51	168.	1549.4	3205.1	*	1	1230	151	180.	1956.5	3211.7	*	1	2050	251	177.	1833.6	3209.8
1	0415	52	173.	1734.8	3208.2	*	1	1235	152	180.	1955.3	3211.7	*	1	2055	252	177.	1832.4	3209.8
1	0420	53	180.	1940.7	3211.5	*	1	1240	153	180.	1954.0	3211.7	*	1	2100	253	176.	1831.1	3209.7
1	0425	54	10690.	2132.9	3214.2	*	1	1245	154	180.	1952.8	3211.7	*	1	2105	254	176.	1829.9	3209.7
1	0430	55	25398.	2261.9	3216.0	*	1	1250	155	180.	1951.5	3211.6	*	1	2110	255	176.	1828.7	3209.7
1	0435	56	34102.	2334.8	3217.1	*	1	1255	156	180.	1950.3	3211.6	*	1	2115	256	176.	1827.5	3209.7
1	0440	57	42339.	2372.9	3217.6	*	1	1300	157	180.	1949.1	3211.6	*	1	2120	257	176.	1826.3	3209.7
1	0445	58	46070.	2390.2	3217.8	*	1	1305	158	180.	1947.8	3211.6	*	1	2125	258	176.	1825.1	3209.6
1	0450	59	48586.	2401.8	3218.0	*	1	1310	159	180.	1946.6	3211.6	*	1	2130	259	176.	1823.9	3209.6
1	0455	60	50275.	2409.6	3218.1	*	1	1315	160	180.	1945.3	3211.5	*	1	2135	260	176.	1822.6	3209.6
1	0500	61	51059.	2413.2	3218.1	*	1	1320	161	180.	1944.1	3211.5	*	1	2140	261	176.	1821.4	3209.6
1	0505	62	50846.	2412.3	3218.1	*	1	1325	162	180.	1942.8	3211.5	*	1	2145	262	176.	1820.2	3209.6
1	0510	63	49691.	2406.9	3218.1	*	1	1330	163	180.	1941.6	3211.5	*	1	2150	263	176.	1819.0	3209.5
1	0515	64	47762.	2398.0	3217.9	*	1	1335	164	180.	1940.4	3211.5	*	1	2155	264	176.	1817.8	3209.5
1	0520	65	45270.	2386.5	3217.8	*	1	1340	165	180.	1939.1	3211.4	*	1	2200	265	176.	1816.6	3209.5
1	0525	66	42436.	2373.4	3217.6	*	1	1345	166	180.	1937.9	3211.4	*	1	2205	266	176.	1815.4	3209.5
1	0530	67	39464.	2359.6	3217.4	*	1	1350	167	180.	1936.7	3211.4	*	1	2210	267	176.	1814.2	3209.5
1	0535	68	36519.	2346.0	3217.2	*	1	1355	168	180.	1935.4	3211.4	*	1	2215	268	176.	1812.9	3209.4
1	0540	69	33720.	2333.1	3217.0	*	1	1400	169	180.	1934.2	3211.4	*	1	2220	269	176.	1811.7	3209.4
1	0545	70	31868.	2318.7	3216.8	*	1	1405	170	180.	1932.9	3211.3	*	1	2225	270	176.	1810.5	3209.4
1	0550	71	29934.	2301.7	3216.6	*	1	1410	171	180.	1931.7	3211.3	*	1	2230	271	176.	1809.3	3209.4
1	0555	72	27949.	2284.3	3216.4	*	1	1415	172	180.	1930.5	3211.3	*	1	2235	272	176.	1808.1	3209.4
1	0600	73	26044.	2267.6	3216.1	*	1	1420	173	180.	1929.2	3211.3	*	1	2240	273	176.	1806.9	3209.3
1	0605	74	24249.	2251.8	3215.9	*	1	1425	174	180.	1928.0	3211.3	*	1	2245	274	176.	1805.7	3209.3
1	0610	75	22546.	2236.9	3215.7	*	1	1430	175	180.	1926.8	3211.3	*	1	2250	275	176.	1804.5	3209.3
1	0615	76	20903.	2222.5	3215.5	*	1	1435	176	179.	1925.5	3211.2	*	1	2255	276	176.	1803.3	3209.3
1	0620	77	19295.	2208.4	3215.3	*	1	1440	177	179.	1924.3	3211.2	*	1	2300	277	176.	1802.1	3209.3
1	0625	78	17707.	2194.4	3215.1	*	1	1445	178	179.	1923.0	3211.2	*	1	2305	278	176.	1800.8	3209.3
1	0630	79	16139.	2180.7	3214.9	*	1	1450	179	179.	1921.8	3211.2	*	1	2310	279	175.	1799.6	3209.2
1	0635	80	14600.	2167.2	3214.7	*	1	1455	180	179.	1920.6	3211.2	*	1	2315	280	175.	1798.4	3209.2
1	0640	81	13106.	2154.1	3214.5	*	1	1500	181	179.	1919.3	3211.1	*	1	2320	281	175.	1797.2	3209.2
1	0645	82	11680.	2141.6	3214.4	*	1	1505	182	179.	1918.1	3211.1	*	1	2325	282	175.	1796.0	3209.2
1	0650	83	10340.	2129.8	3214.2	*	1	1510	183	179.	1916.9	3211.1	*	1	2330	283	175.	1794.8	3209.2
1	0655	84	9101.	2118.9	3214.1	*	1	1515	184	179.	1915.6	3211.1	*	1	2335	284	175.	1793.6	3209.1
1	0700	85	8140.	2108.4	3213.9	*	1	1520	185	179.	1914.4	3211.1	*	1	2340	285	175.	1792.4	3209.1
1	0705	86	7302.	2097.8	3213.8	*	1	1525	186	179.	1913.2	3211.0	*	1	2345	286	175.	1791.2	3209.1
1	0710	87	6473.	2087.2	3213.6	*	1	1530	187	179.	1911.9	3211.0	*	1	2350	287	175.	1790.0	3209.1
1	0715	88	5688.	2077.2	3213.5	*	1	1535	188	179.	1910.7	3211.0	*	1	2355	288	175.	1788.8	3209.1
1	0720	89	4968.	2068.0	3213.3	*	1	1540	189	179.	1909.5	3211.0	*	2	0000	289	175.	1787.6	3209.0
1	0725	90	4316.	2059.7	3213.2	*	1	1545	190	179.	1908.2	3211.0	*	2	0005	290	175.	1786.4	3209.0
1	0730	91	3733.	2052.3	3213.1	*	1	1550	191	179.	1907.0	3210.9	*	2	0010	291	175.	1785.2	3209.0
1	0735	92	3214.	2045.7	3213.0	*	1	1555	192	179.	1905.8	3210.9	*	2	0015	292	175.	1784.0	3209.0
1	0740	93	2755.	2039.8	3213.0	*	1	1600	193	179.	1904.5	3210.9	*	2	0020	293	175.	1782.7	3209.0
1	0745	94	2351.	2034.7	3212.9	*	1	1605	194	179.	1903.3	3210.9	*	2	0025	294	175.	1781.5	3208.9
1	0750	95	1997.	2030.1	3212.8	*	1	1610	195	179.	1902.1	3210.9	*	2	0030	295	175.	1780.3	3208.9
1	0755	96	1688.	2026.2	3212.8	*	1	1615	196	179.	1900.9	3210.8	*	2	0035	296	175.	1779.1	3208.9
1	0800	97	1420.	2022.8	3212.7	*	1	1620	197	179.	1899.6	3210.8	*	2	0040	297	175.	1777.9	3208.9
1	0805	98	1189.	2019.8	3212.7	*	1	1625	198	179.	1898.4	3210.8	*	2	0045	298	175.	1776.7	3208.9
1	0810	99	992.	2017.3	3212.6	*	1	1630	199	179.	1897.2	3210.8	*	2	0050	299	175.	1775.5	3208.8
1	0815	100	824.	2015.2	3212.6	*	1	1635	200	179.	1895.9	3210.8	*	2	0055	300	175.	1774.3	3208.8

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
	(CFS)				
+ 51059.	5.00	14068.	3636.	3503.	3503.
	(INCHES)	2.390	2.471	2.471	2.471
	(AC-FT)	6976.	7213.	7213.	7213.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
2413.	5.00	2135.	1736.	1672.	1672.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3218.15	5.00	3214.28	3206.53	3204.86	3204.86

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .93

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	3161.0	1		0820	101	662.	2013.1	3212.6	1		1640	201	178.	1894.5	3210.7
1		0005	2	0.	.0	3161.0	1		0825	102	547.	2011.7	3212.6	1		1645	202	178.	1893.3	3210.7
1		0010	3	0.	.0	3161.0	1		0830	103	451.	2010.4	3212.5	1		1650	203	178.	1892.1	3210.7
1		0015	4	0.	.0	3161.0	1		0835	104	371.	2009.4	3212.5	1		1655	204	178.	1890.8	3210.7
1		0020	5	0.	.1	3161.0	1		0840	105	305.	2008.6	3212.5	1		1700	205	178.	1889.6	3210.7
1		0025	6	0.	.3	3161.0	1		0845	106	250.	2007.9	3212.5	1		1705	206	178.	1888.4	3210.6
1		0030	7	1.	.7	3161.1	1		0850	107	206.	2007.3	3212.5	1		1710	207	178.	1887.2	3210.6
1		0035	8	2.	1.6	3161.2	1		0855	108	182.	2006.8	3212.5	1		1715	208	178.	1885.9	3210.6
1		0040	9	3.	2.7	3161.3	1		0900	109	182.	2006.2	3212.5	1		1720	209	178.	1884.7	3210.6
1		0045	10	4.	3.9	3161.4	1		0905	110	182.	2005.5	3212.5	1		1725	210	178.	1883.5	3210.6
1		0050	11	6.	5.0	3161.6	1		0910	111	182.	2004.7	3212.5	1		1730	211	178.	1882.2	3210.5
1		0055	12	7.	6.1	3161.7	1		0915	112	182.	2003.8	3212.5	1		1735	212	178.	1881.0	3210.5
1		0100	13	8.	7.3	3161.8	1		0920	113	182.	2002.8	3212.4	1		1740	213	178.	1879.8	3210.5
1		0105	14	10.	8.7	3162.0	1		0925	114	182.	2001.8	3212.4	1		1745	214	178.	1878.6	3210.5
1		0110	15	11.	10.5	3162.1	1		0930	115	182.	2000.7	3212.4	1		1750	215	178.	1877.3	3210.5
1		0115	16	12.	12.9	3162.2	1		0935	116	182.	1999.6	3212.4	1		1755	216	178.	1876.1	3210.4
1		0120	17	13.	16.0	3162.4	1		0940	117	182.	1998.4	3212.4	1		1800	217	178.	1874.9	3210.4
1		0125	18	15.	19.8	3162.6	1		0945	118	182.	1997.2	3212.4	1		1805	218	178.	1873.7	3210.4
1		0130	19	17.	24.6	3162.8	1		0950	119	182.	1996.1	3212.3	1		1810	219	178.	1872.4	3210.4
1		0135	20	20.	30.5	3163.1	1		0955	120	182.	1994.8	3212.3	1		1815	220	178.	1871.2	3210.4
1		0140	21	24.	37.8	3163.5	1		1000	121	182.	1993.6	3212.3	1		1820	221	178.	1870.0	3210.3
1		0145	22	28.	46.3	3163.9	1		1005	122	182.	1992.4	3212.3	1		1825	222	178.	1868.8	3210.3
1		0150	23	32.	55.9	3164.4	1		1010	123	182.	1991.2	3212.3	1		1830	223	178.	1867.6	3210.3
1		0155	24	38.	66.4	3164.9	1		1015	124	181.	1989.9	3212.2	1		1835	224	178.	1866.3	3210.3
1		0200	25	43.	77.7	3165.5	1		1020	125	181.	1988.7	3212.2	1		1840	225	178.	1865.1	3210.3
1		0205	26	49.	89.6	3166.1	1		1025	126	181.	1987.5	3212.2	1		1845	226	178.	1863.9	3210.3
1		0210	27	55.	102.2	3166.8	1		1030	127	181.	1986.2	3212.2	1		1850	227	177.	1862.7	3210.2
1		0215	28	59.	115.9	3167.4	1		1035	128	181.	1985.0	3212.2	1		1855	228	177.	1861.4	3210.2
1		0220	29	61.	130.9	3168.0	1		1040	129	181.	1983.7	3212.1	1		1900	229	177.	1860.2	3210.2
1		0225	30	65.	147.7	3168.6	1		1045	130	181.	1982.5	3212.1	1		1905	230	177.	1859.0	3210.2
1		0230	31	68.	166.0	3169.4	1		1050	131	181.	1981.2	3212.1	1		1910	231	177.	1857.8	3210.2
1		0235	32	72.	185.8	3170.2	1		1055	132	181.	1980.0	3212.1	1		1915	232	177.	1856.6	3210.1
1		0240	33	76.	206.9	3171.0	1		1100	133	181.	1978.7	3212.1	1		1920	233	177.	1855.3	3210.1
1		0245	34	80.	229.9	3172.0	1		1105	134	181.	1977.5	3212.1	1		1925	234	177.	1854.1	3210.1
1		0250	35	83.	255.0	3172.8	1		1110	135	181.	1976.2	3212.0	1		1930	235	177.	1852.9	3210.1
1		0255	36	87.	282.1	3173.8	1		1115	136	181.	1975.0	3212.0	1		1935	236	177.	1851.7	3210.1
1		0300	37	91.	311.0	3174.8	1		1120	137	181.	1973.7	3212.0	1		1940	237	177.	1850.5	3210.0
1		0305	38	95.	341.7	3175.9	1		1125	138	181.	1972.5	3212.0	1		1945	238	177.	1849.2	3210.0
1		0310	39	99.	374.9	3177.1	1		1130	139	181.	1971.3	3212.0	1		1950	239	177.	1848.0	3210.0
1		0315	40	103.	412.0	3178.3	1		1135	140	181.	1970.0	3211.9	1		1955	240	177.	1846.8	3210.0
1		0320	41	107.	454.8	3179.6	1		1140	141	181.	1968.8	3211.9	1		2000	241	177.	1845.6	3210.0
1		0325	42	112.	506.2	3181.3	1		1145	142	181.	1967.5	3211.9	1		2005	242	177.	1844.4	3209.9
1		0330	43	117.	569.2	3183.1	1		1150	143	181.	1966.3	3211.9	1		2010	243	177.	1843.1	3209.9
1		0335	44	123.	645.3	3185.3	1		1155	144	181.	1965.0	3211.9	1		2015	244	177.	1841.9	3209.9
1		0340	45	130.	732.3	3187.7	1		1200	145	181.	1963.8	3211.8	1		2020	245	177.	1840.7	3209.9
1		0345	46	135.	827.4	3190.1	1		1205	146	181.	1962.5	3211.8	1		2025	246	177.	1839.5	3209.9
1		0350	47	141.	931.0	3192.6	1		1210	147	181.	1961.3	3211.8	1		2030	247	177.	1838.3	3209.8
1		0355	48	147.	1045.0	3195.2	1		1215	148	181.	1960.1	3211.8	1		2035	248	177.	1837.1	3209.8
1		0400	49	153.	1171.9	3197.9	1		1220	149	181.	1958.8	3211.8	1		2040	249	177.	1835.8	3209.8
1		0405	50	159.	1314.4	3200.8	1		1225	150	180.	1957.6	3211.7	1		2045	250	177.	1834.6	3209.8
1		0410	51	165.	1474.2	3203.7	1		1230	151	180.	1956.3	3211.7	1		2050	251	177.	1833.4	3209.8
1		0415	52	171.	1652.6	3206.9	1		1235	152	180.	1955.1	3211.7	1		2055	252	176.	1832.2	3209.7
1		0420	53	177.	1851.0	3210.0	1		1240	153	180.	1953.8	3211.7	1		2100	253	176.	1831.0	3209.7
1		0425	54	4130.	2057.3	3213.2	1		1245	154	180.	1952.6	3211.7	1		2105	254	176.	1829.8	3209.7
1		0430	55	20320.	2217.4	3215.4	1		1250	155	180.	1951.4	3211.6	1		2110	255	176.	1828.5	3209.7
1		0435	56	30798.	2309.3	3216.7	1		1255	156	180.	1950.1	3211.6	1		2115	256	176.	1827.3	3209.7
1		0440	57	39276.	2358.8	3217.4	1		1300	157	180.	1948.9	3211.6	1		2120	257	176.	1826.1	3209.7
1		0445	58	44241.	2381.7	3217.7	1		1305	158	180.	1947.6	3211.6	1		2125	258	176.	1824.9	3209.6
1		0450	59	46885.	2393.9	3217.9	1		1310	159	180.	1946.4	3211.6	1		2130	259	176.	1823.7	3209.6
1		0455	60	48560.	2401.7	3218.0	1		1315	160	180.	1945.2	3211.5	1		2135	260	176.	1822.5	3209.6
1		0500	61	49337.	2405.3	3218.0	1		1320	161	180.	1943.9	3211.5	1		2140	261	176.	1821.3	3209.6
1		0505	62	49144.	2404.4	3218.0	1		1325	162	180.	1942.7	3211.5	1		2145	262	176.	1820.0	3209.6
1		0510	63	48040.	2399.3	3218.0	1		1330	163	180.	1941.4	3211.5	1		2150	263	176.	1818.8	3209.

| | | |

+ (FEET)	(HR)				
3217.99	5.00	3214.19	3206.37	3204.70	3204.70

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .91

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	3161.0	1		0820	101	648.	2012.9	3212.6	1		1640	201	178.	1894.4	3210.7
1		0005	2	0.	.0	3161.0	1		0825	102	535.	2011.5	3212.6	1		1645	202	178.	1893.2	3210.7
1		0010	3	0.	.0	3161.0	1		0830	103	441.	2010.3	3212.5	1		1650	203	178.	1892.0	3210.7
1		0015	4	0.	.0	3161.0	1		0835	104	363.	2009.3	3212.5	1		1655	204	178.	1890.7	3210.7
1		0020	5	0.	.1	3161.0	1		0840	105	299.	2008.5	3212.5	1		1700	205	178.	1889.5	3210.7
1		0025	6	0.	.2	3161.0	1		0845	106	245.	2007.8	3212.5	1		1705	206	178.	1888.3	3210.6
1		0030	7	1.	.7	3161.1	1		0850	107	201.	2007.2	3212.5	1		1710	207	178.	1887.0	3210.6
1		0035	8	2.	1.5	3161.2	1		0855	108	182.	2006.7	3212.5	1		1715	208	178.	1885.8	3210.6
1		0040	9	3.	2.5	3161.3	1		0900	109	182.	2006.1	3212.5	1		1720	209	178.	1884.6	3210.6
1		0045	10	4.	3.6	3161.4	1		0905	110	182.	2005.4	3212.5	1		1725	210	178.	1883.4	3210.6
1		0050	11	5.	4.7	3161.5	1		0910	111	182.	2004.6	3212.5	1		1730	211	178.	1882.1	3210.5
1		0055	12	6.	5.7	3161.6	1		0915	112	182.	2003.7	3212.4	1		1735	212	178.	1880.9	3210.5
1		0100	13	8.	6.8	3161.8	1		0920	113	182.	2002.7	3212.4	1		1740	213	178.	1879.7	3210.5
1		0105	14	9.	8.1	3161.9	1		0925	114	182.	2001.7	3212.4	1		1745	214	178.	1878.5	3210.5
1		0110	15	10.	9.7	3162.0	1		0930	115	182.	2000.6	3212.4	1		1750	215	178.	1877.2	3210.5
1		0115	16	11.	11.9	3162.2	1		0935	116	182.	1999.5	3212.4	1		1755	216	178.	1876.0	3210.4
1		0120	17	13.	14.8	3162.3	1		0940	117	182.	1998.3	3212.4	1		1800	217	178.	1874.8	3210.4
1		0125	18	14.	18.3	3162.5	1		0945	118	182.	1997.1	3212.4	1		1805	218	178.	1873.6	3210.4
1		0130	19	17.	22.7	3162.7	1		0950	119	182.	1995.9	3212.3	1		1810	219	178.	1872.3	3210.4
1		0135	20	19.	28.3	3163.0	1		0955	120	182.	1994.7	3212.3	1		1815	220	178.	1871.1	3210.4
1		0140	21	22.	35.0	3163.3	1		1000	121	182.	1993.5	3212.3	1		1820	221	178.	1869.9	3210.3
1		0145	22	26.	43.0	3163.7	1		1005	122	182.	1992.3	3212.3	1		1825	222	178.	1868.7	3210.3
1		0150	23	31.	52.0	3164.2	1		1010	123	182.	1991.1	3212.3	1		1830	223	178.	1867.4	3210.3
1		0155	24	35.	61.9	3164.7	1		1015	124	181.	1989.8	3212.2	1		1835	224	178.	1866.2	3210.3
1		0200	25	40.	72.5	3165.2	1		1020	125	181.	1988.6	3212.2	1		1840	225	178.	1865.0	3210.3
1		0205	26	46.	83.7	3165.8	1		1025	126	181.	1987.3	3212.2	1		1845	226	178.	1863.8	3210.3
1		0210	27	52.	95.6	3166.4	1		1030	127	181.	1986.1	3212.2	1		1850	227	177.	1862.5	3210.2
1		0215	28	57.	108.5	3167.1	1		1035	128	181.	1984.9	3212.2	1		1855	228	177.	1861.3	3210.2
1		0220	29	60.	122.8	3167.6	1		1040	129	181.	1983.6	3212.1	1		1900	229	177.	1860.1	3210.2
1		0225	30	63.	138.7	3168.3	1		1045	130	181.	1982.4	3212.1	1		1905	230	177.	1858.9	3210.2
1		0230	31	66.	156.2	3169.0	1		1050	131	181.	1981.1	3212.1	1		1910	231	177.	1857.7	3210.2
1		0235	32	70.	175.1	3169.7	1		1055	132	181.	1979.9	3212.1	1		1915	232	177.	1856.4	3210.1
1		0240	33	73.	195.3	3170.6	1		1100	133	181.	1978.6	3212.1	1		1920	233	177.	1855.2	3210.1
1		0245	34	77.	217.3	3171.4	1		1105	134	181.	1977.4	3212.1	1		1925	234	177.	1854.0	3210.1
1		0250	35	81.	241.3	3172.4	1		1110	135	181.	1976.1	3212.0	1		1930	235	177.	1852.8	3210.1
1		0255	36	85.	267.3	3173.3	1		1115	136	181.	1974.9	3212.0	1		1935	236	177.	1851.6	3210.1
1		0300	37	89.	295.1	3174.3	1		1120	137	181.	1973.6	3212.0	1		1940	237	177.	1850.3	3210.0
1		0305	38	93.	324.6	3175.3	1		1125	138	181.	1972.4	3212.0	1		1945	238	177.	1849.1	3210.0
1		0310	39	97.	356.6	3176.5	1		1130	139	181.	1971.1	3212.0	1		1950	239	177.	1847.9	3210.0
1		0315	40	101.	392.3	3177.6	1		1135	140	181.	1969.9	3211.9	1		1955	240	177.	1846.7	3210.0
1		0320	41	105.	433.6	3179.0	1		1140	141	181.	1968.6	3211.9	1		2000	241	177.	1845.5	3210.0
1		0325	42	110.	483.3	3180.5	1		1145	142	181.	1967.4	3211.9	1		2005	242	177.	1844.2	3209.9
1		0330	43	115.	544.4	3182.4	1		1150	143	181.	1966.2	3211.9	1		2010	243	177.	1843.0	3209.9
1		0335	44	121.	618.1	3184.5	1		1155	144	181.	1964.9	3211.9	1		2015	244	177.	1841.8	3209.9
1		0340	45	128.	702.5	3186.9	1		1200	145	181.	1963.7	3211.8	1		2020	245	177.	1840.6	3209.9
1		0345	46	133.	794.8	3189.3	1		1205	146	181.	1962.4	3211.8	1		2025	246	177.	1839.4	3209.9
1		0350	47	140.	895.4	3191.8	1		1210	147	181.	1961.2	3211.8	1		2030	247	177.	1838.2	3209.8
1		0355	48	145.	1006.1	3194.3	1		1215	148	181.	1959.9	3211.8	1		2035	248	177.	1836.9	3209.8
1		0400	49	151.	1129.5	3197.1	1		1220	149	181.	1958.7	3211.8	1		2040	249	177.	1835.7	3209.8
1		0405	50	157.	1268.1	3199.9	1		1225	150	180.	1957.4	3211.7	1		2045	250	177.	1834.5	3209.8
1		0410	51	164.	1423.6	3202.8	1		1230	151	180.	1956.2	3211.7	1		2050	251	177.	1833.3	3209.8
1		0415	52	169.	1597.3	3205.9	1		1235	152	180.	1955.0	3211.7	1		2055	252	176.	1832.1	3209.7
1		0420	53	175.	1790.5	3209.1	1		1240	153	180.	1953.7	3211.7	1		2100	253	176.	1830.9	3209.7
1		0425	54	182.	2004.9	3212.5	1		1245	154	180.	1952.5	3211.7	1		2105	254	176.	1829.6	3209.7
1		0430	55	16634.	2185.0	3215.0	1		1250	155	180.	1951.2	3211.6	1		2110	255	176.	1828.4	3209.7
1		0435	56	28643.	2290.4	3216.4	1		1255	156	180.	1950.0	3211.6	1		2115	256	176.	1827.2	3209.7
1		0440	57	36964.	2348.1	3217.2	1		1300	157	180.	1948.8	3211.6	1		2120	257	176.	1826.0	3209.7
1		0445	58	42964.	2375.8	3217.6	1		1305	158	180.	1947.5	3211.6	1		2125	258	176.	1824.8	3209.6
1		0450	59	45722.	2388.6	3217.8	1		1310	159	180.	1946.3	3211.6	1		2130	259	176.	1823.6	3209.6
1		0455	60	47391.	2396.3	3217.9	1		1315	160	180.	1945.0	3211.5	1		2135	260	176.	1822.4	3209.6
1		0500	61	48163.	2399.9	3218.0	1		1320	161	180.	1943.8	3211.5	1		2140	261	176.	1821.1	3209.6
1		0505	62	47985.	2399.0	3217.9	1		1325	162	180.	1942.6	3211.5	1		2145	262	176.	1819.9	3209.6
1		0510	63	46915.	2394.1	3217.9	1		1330	163	180.	1941.3	3211.5	1		2150	263	176.	1818.7	3209.5
1		0515	64	45112.	2385.8	3217.8	1		1335	164	180.	1940.1	3211.5	1		2155	264	176.	1817.5	3209.5
1		0520	65	42776.	2375.0	3217.6	1		1340	165	180.	1938.8	3211.4	1		2200	265	176.	1816.3	3209.5
1		0525	66	40114.	2362.6	3217.4	1		1345	166	180.	1937.6	3211.4	1		2205	266	176.	1815.1	3209.5
1		0530	67	37319.	2349.7	3217.3	1		1350	167	180.	1936.4	3211.4	1		2210	267	176.	1813.9	3209.5
1		0535	68	34546.	2336.9	3217.1	1		1355	168	180.	1935.1	3211.4	1		2215	268	176.	1812.7	3209.4
1		0540	69	32372.	2323.1	3216.9	1		1400	169	180.	1933.9	3211.4	1		2220	269	176.	1811.4	3209.4
1		0545	70	30510.	2306.8	3216.7	1		1405	170	180.	1932.6	3211.3	1		2225	270	176.	1810.2	3209.4
1		0550	71	28493.	2289.1	3216.4	1		1410	171	180.	1931.4	3211.3	1		2230	271	176.	1809.0	3209.4
1		0555	72	26536.	2271.9	3216.2	1		1415	172	180.	1930.2	3211.3	1		2235	272	176.	1807.8	3209.4
1		0600	73	24702.	2255.8	3216.0	1		1420	173	180.	1928.9	3211.3	1		2240	273	176.	1806.6	3209.3
1		0605	74	22992.	2240.8	3215.7	1		1425	174	180.	1927.7	3211.3	1		2245	274	176.	1805.4	3209.3
1		0610	75	21377.	2226.6	3215.6	1		1430	175	179.	1926.5	3211.2	1		2250	275	176.	1804.2	3209.3
1		0615	76	19822.	2213.0	3215.4	1		1435	176	179.	1925.2	3211.2	1		2255	276	176.	1803.0	3209.3
1		0620	77	18300.	2199.6	3215.2	1		1440	177	179.	1924.0	3211.2	1		2300	277	176.	1801.8	3209.3
1		0625	78	16797.	2186.5	3215.0	1		1445	178	179.	1922.8	3211.2	1		2305	278	175.	1800.6	3209.2
1		0630	79	15312.	2173.4	3214.8	1		1450	179	179.	1921.5	3211.2	1		2310	279	175.	1799.3	3209.2
1		0635	80	13853.	2160.6	3214.6	1		1455	180	179.	1920.3	3211.1	1		2315	280	175.	1798.1	3209.2
1		0640	81	12438.	2148.2	3214.5	1		1500	181	179.	1919.0	3211.1	1		2320	281	175.	1796.9	3209.2
1		0645	82	11086.	2136.3	3214.3	1		1505	182	179.	1917.8	3211.1	1		2325	282	175.	1795.7	3209.2
1		0650	83	9815.	2125.2	3214.1	1		1510	183	179.	1916.6	3211.1	1		2330	283	175.	1794.5	3209.2
1		0655	84	8643.	2114.9	3214.0	1		1515	184	179.	1915.3	3211.1	1		2335	284	175.	1793.3	3209.1
1		0700	85	7834.	2104.5	3213.9	1		1520	185	179.	1914.1	3211.0	1		2340	285	175.	1792.1	3209.1
1		0705	86	6994.	2093.8	3213.7	1		1525	186	179.	1912.9	3211.0	1		2345	286	175.	1790.9	3209.1
1		0710	87	6181.	2083.5	3213.6	1		1530	187	179.	1911.6	3211.0	1		2350	287	175.	1789.7	3209.1
1		0715	88	5422.	2073.8	3213.4	1		1535	188	179.	1910.4	3211.0	1		2355	288	175.	1788.5	3209.1
1		0720	89	4729.	2065.0	3213.3	1		1540	189	179.	1909.2	3211.0	2		0000	289	175.	1787.3	3209.0
1		0725	90	4106.	2057.0	3213.2	1		1545	190	179.	1907.9	3211.0	2		0005	290	175.	1786.1	3209.0
1		0730	91	3549.	2049.9	3213.1	1		1550	191	179.	1906.7	3210.9	2		0010	291	175.	1784.9	3209.0
1		0735	92	3055.	2043.6	3213.0	1		1555	192	179.	1905.5	3210.9	2		0015	292	175.	1783.7	3209.0
1		0740	93	2618.	2038.1	3212.9	1		1600	193	179.	1904.3	3210.9	2		0020	293	175.	1782.5	3209.0
1		0745	94	2234.	2033.2	3212.9	1		1605	194	179.	1903.0	3210.9	2		0025	294	175.	1781.3	3208.9
1		0750	95	1898.	2028.9	3212.8	1		1610	195	179.	1901.8	3210.9	2		0030	295	175.	1780.0	3208.9
1		0755	96	1604.	2025.1	3212.8	1		1615	196	179.	1900.6	3210.8	2		0035	296	175.	1778.8	3208.9
1		0800	97	1349.	2021.9	3212.7	1		1620	197	179.	1899.3	3210.8	2		0040	297	175.	1777.6	3208.9
1		0805	98	1130.	2019.1	3212.7	1		1625	198	179.	1898.1	3210.8	2		0045	298	175.	1776.4	3208.9
1		0810	99	943.	2016.7	3212.6	1		1630	199	179.	1896.9	3210.8	2		0050	299	175.	1775.2	3208.9
1		0815	100	783.	2014.7	3212.6	1		1635	200	179.	1895.6	3210.8	2		0055	300	175.	1774.0	3208.8

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
48163.	5.00	12985.	3365.	3241.	3241.
	(CFS)				
	(INCHES)	2.206	2.287	2.287	2.287
	(AC-FT)	6439.	6675.	6675.	6675.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
2400.	5.00	2127.	1728.	1664.	1664.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3217.96	5.00	3214.17	3206.33	3204.67	3204.67

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .90

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	3161.0	1		0820	101	644.	2012.9	3212.6	1		1640	201	178.	1894.4	3210.7
1		0005	2	0.	.0	3161.0	1		0825	102	532.	2011.5	3212.6	1		1645	202	178.	1893.1	3210.7
1		0010	3	0.	.0	3161.0	1		0830	103	439.	2010.3	3212.5	1		1650	203	178.	1891.9	3210.7
1		0015	4	0.	.0	3161.0	1		0835	104	361.	2009.3	3212.5	1		1655	204	178.	1890.7	3210.7
1		0020	5	0.	.1	3161.0	1		0840	105	297.	2008.5	3212.5	1		1700	205	178.	1889.5	3210.7
1		0025	6	0.	.2	3161.0	1		0845	106	244.	2007.8	3212.5	1		1705	206	178.	1888.2	3210.6
1		0030	7	1.	.7	3161.1	1		0850	107	200.	2007.2	3212.5	1		1710	207	178.	1887.0	3210.6
1		0035	8	2.	1.4	3161.2	1		0855	108	182.	2006.7	3212.5	1		1715	208	178.	1885.8	3210.6
1		0040	9	3.	2.5	3161.3	1		0900	109	182.	2006.1	3212.5	1		1720	209	178.	1884.5	3210.6
1		0045	10	4.	3.6	3161.4	1		0905	110	182.	2005.4	3212.5	1		1725	210	178.	1883.3	3210.6
1		0050	11	5.	4.6	3161.5	1		0910	111	182.	2004.6	3212.5	1		1730	211	178.	1882.1	3210.5
1		0055	12	6.	5.6	3161.6	1		0915	112	182.	2003.6	3212.4	1		1735	212	178.	1880.9	3210.5
1		0100	13	7.	6.6	3161.7	1		0920	113	182.	2002.7	3212.4	1		1740	213	178.	1879.6	3210.5
1		0105	14	9.	7.9	3161.9	1		0925	114	182.	2001.6	3212.4	1		1745	214	178.	1878.4	3210.5
1		0110	15	10.	9.5	3162.0	1		0930	115	182.	2000.5	3212.4	1		1750	215	178.	1877.2	3210.5
1		0115	16	11.	11.7	3162.1	1		0935	116	182.	1999.4	3212.4	1		1755	216	178.	1876.0	3210.4
1		0120	17	13.	14.4	3162.3	1		0940	117	182.	1998.3	3212.4	1		1800	217	178.	1874.7	3210.4
1		0125	18	14.	17.9	3162.5	1		0945	118	182.	1997.1	3212.3	1		1805	218	178.	1873.5	3210.4
1		0130	19	16.	22.2	3162.7	1		0950	119	182.	1995.9	3212.3	1		1810	219	178.	1872.3	3210.4
1		0135	20	19.	27.6	3163.0	1		0955	120	182.	1994.7	3212.3	1		1815	220	178.	1871.1	3210.4
1		0140	21	22.	34.3	3163.3	1		1000	121	182.	1993.5	3212.3	1		1820	221	178.	1869.8	3210.3
1		0145	22	26.	42.1	3163.7	1		1005	122	182.	1992.2	3212.3	1		1825	222	178.	1868.6	3210.3
1		0150	23	30.	50.9	3164.1	1		1010	123	182.	1991.0	3212.3	1		1830	223	178.	1867.4	3210.3
1		0155	24	35.	60.6	3164.6	1		1015	124	181.	1989.8	3212.2	1		1835	224	178.	1866.2	3210.3
1		0200	25	40.	71.0	3165.2	1		1020	125	181.	1988.5	3212.2	1		1840	225	178.	1865.0	3210.3
1		0205	26	45.	82.0	3165.7	1		1025	126	181.	1987.3	3212.2	1		1845	226	177.	1863.7	3210.2
1		0210	27	51.	93.8	3166.3	1		1030	127	181.	1986.1	3212.2	1		1850	227	177.	1862.5	3210.2
1		0215	28	57.	106.4	3167.0	1		1035	128	181.	1984.8	3212.2	1		1855	228	177.	1861.3	3210.2
1		0220	29	60.	120.5	3167.5	1		1040	129	181.	1983.6	3212.1	1		1900	229	177.	1860.1	3210.2
1		0225	30	62.	136.2	3168.2	1		1045	130	181.	1982.3	3212.1	1		1905	230	177.	1858.8	3210.2
1		0230	31	66.	153.4	3168.9	1		1050	131	181.	1981.1	3212.1	1		1910	231	177.	1857.6	3210.2
1		0235	32	69.	172.0	3169.6	1		1055	132	181.	1979.8	3212.1	1		1915	232	177.	1856.4	3210.1
1		0240	33	73.	192.0	3170.4	1		1100	133	181.	1978.6	3212.1	1		1920	233	177.	1855.2	3210.1
1		0245	34	77.	213.6	3171.3	1		1105	134	181.	1977.3	3212.1	1		1925	234	177.	1854.0	3210.1
1		0250	35	81.	237.4	3172.2	1		1110	135	181.	1976.1	3212.0	1		1930	235	177.	1852.7	3210.1
1		0255	36	84.	263.1	3173.1	1		1115	136	181.	1974.8	3212.0	1		1935	236	177.	1851.5	3210.1
1		0300	37	88.	290.5	3174.1	1		1120	137	181.	1973.6	3212.0	1		1940	237	177.	1850.3	3210.0
1		0305	38	92.	319.6	3175.1	1		1125	138	181.	1972.3	3212.0	1		1945	238	177.	1849.1	3210.0
1		0310	39	96.	351.3	3176.3	1		1130	139	181.	1971.1	3212.0	1		1950	239	177.	1847.9	3210.0
1		0315	40	100.	386.6	3177.5	1		1135	140	181.	1969.9	3211.9	1		1955	240	177.	1846.6	3210.0

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ROUTED TO												
+	RCRR2	7.77	1	FLOW	12627.	12384.	11977.	11574.	11412.	11297.	11215.	11088.	10925.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
HYDROGRAPH AT													
+	RR5	7.13	1	FLOW	10630.	10432.	10103.	9773.	9642.	9549.	9484.	9378.	9246.
				TIME	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08
ROUTED TO													
+	R-RR5	7.13	1	FLOW	10254.	10062.	9743.	9424.	9297.	9207.	9144.	9041.	8914.
				TIME	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25
HYDROGRAPH AT													
+	RR3	14.98	1	FLOW	18631.	18272.	17675.	17078.	16839.	16672.	16553.	16362.	16123.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
3 COMBINED AT													
+	CRR3	29.89	1	FLOW	41370.	40586.	39276.	37972.	37449.	37080.	36819.	36403.	35879.
				TIME	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25
ROUTED TO													
+	RCRR3	29.89	1	FLOW	38928.	38185.	36945.	35707.	35212.	34864.	34616.	34222.	33725.
				TIME	4.67	4.67	4.67	4.67	4.67	4.67	4.67	4.67	4.67
HYDROGRAPH AT													
+	RR10	8.77	1	FLOW	8521.	8349.	8063.	7778.	7664.	7584.	7527.	7436.	7322.
				TIME	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33
2 COMBINED AT													
+	CRR10	38.66	1	FLOW	46289.	45401.	43921.	42444.	41853.	41438.	41142.	40671.	40079.
				TIME	4.67	4.67	4.67	4.67	4.67	4.67	4.67	4.67	4.67
ROUTED TO													
+	RCRR10	38.66	1	FLOW	44323.	43470.	42049.	40629.	40062.	39662.	39379.	38926.	38358.
				TIME	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
HYDROGRAPH AT													
+	RR12A	5.82	1	FLOW	6934.	6800.	6578.	6355.	6267.	6204.	6160.	6089.	6000.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
ROUTED TO													
+	R-RR12A	5.82	1	FLOW	6676.	6547.	6333.	6118.	6032.	5972.	5929.	5861.	5775.
				TIME	4.42	4.42	4.42	4.42	4.42	4.42	4.42	4.42	4.42
HYDROGRAPH AT													
+	104A	3.39	1	FLOW	2947.	2880.	2769.	2658.	2613.	2582.	2560.	2525.	2481.
				TIME	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25
3 COMBINED AT													
+	C104A	47.87	1	FLOW	50356.	49388.	47774.	46162.	45517.	45065.	44742.	44228.	43583.
				TIME	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
HYDROGRAPH AT													
+	RD1	.43	1	FLOW	961.	942.	911.	879.	867.	858.	852.	842.	829.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
ROUTED TO													
+	R-RD1	.43	1	FLOW	941.	934.	902.	871.	852.	842.	840.	832.	814.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT													
+	RD2	.47	1	FLOW	1219.	1198.	1162.	1126.	1112.	1102.	1095.	1083.	1069.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT													
+	CRD2	.90	1	FLOW	2111.	2077.	2011.	1944.	1913.	1895.	1883.	1863.	1834.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
ROUTED TO													
+	RCRD2	.90	1	FLOW	2037.	2002.	1941.	1884.	1846.	1834.	1826.	1801.	1778.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT													
+	RD3	.33	1	FLOW	817.	803.	778.	754.	744.	737.	732.	724.	714.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT													
+	CRD3	1.23	1	FLOW	2815.	2770.	2682.	2588.	2555.	2526.	2509.	2485.	2444.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT													
+	RR14A	4.60	1	FLOW	5272.	5169.	4997.	4826.	4757.	4710.	4675.	4621.	4552.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
ROUTED TO													
+	R-RR14A	4.60	1	FLOW	5252.	5149.	4977.	4806.	4735.	4690.	4653.	4601.	4532.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
HYDROGRAPH AT													
+	RD4	.40	1	FLOW	900.	881.	851.	821.	808.	800.	794.	784.	772.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT													
+	CRD4	5.00	1	FLOW	5425.	5319.	5142.	4965.	4893.	4846.	4808.	4754.	4683.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
ROUTED TO													
+	RCRD4	5.00	1	FLOW	5409.	5304.	5130.	4950.	4878.	4831.	4792.	4740.	4670.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
HYDROGRAPH AT													
+	RD5	.37	1	FLOW	857.	840.	811.	783.	772.	764.	759.	750.	738.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT													
+	CRD5	5.37	1	FLOW	5554.	5448.	5269.	5084.	5011.	4962.	4923.	4869.	4797.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
ROUTED TO													
+	RCRD5	5.37	1	FLOW	5536.	5428.	5247.	5065.	4992.	4942.	4903.	4849.	4777.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
HYDROGRAPH AT													
+	RD6	.25	1	FLOW	625.	614.	595.	576.	569.	563.	560.	554.	546.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT													
+	CRD6	5.62	1	FLOW	5636.	5527.	5343.	5159.	5084.	5033.	4993.	4939.	4865.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
3 COMBINED AT													
+	INRR	54.73	1	FLOW	54009.	52976.	51255.	49535.	48847.	48365.	48020.	47472.	46783.
				TIME	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
ROUTED TO													
+	RRDB	54.73	1	FLOW	53820.	52785.	51059.	49337.	48648.	48163.	47818.	47268.	46578.
				TIME	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00

** PEAK STAGES IN FEET **

			1	STAGE	3218.32	3218.26	3218.15	3218.03	3217.99	3217.96	3217.94	3217.90	3217.86
				TIME	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
DIVERSION TO													
+	*D-RROUT	54.73	1	FLOW	53638.	52603.	50877.	49155.	48466.	47981.	47636.	47086.	46396.
				TIME	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
HYDROGRAPH AT													
+	*DOUTRR	54.73	1	FLOW	182.	182.	182.	182.	182.	182.	182.	182.	182.
				TIME	6.00	5.83	5.00	5.83	4.42	5.25	4.83	4.50	4.92
ROUTED TO													
+	ROUTRR	54.73	1	FLOW	182.	182.	182.	182.	182.	182.	182.	182.	182.
				TIME	4.50	4.50	4.58	4.58	4.58	4.58	4.58	4.58	4.67
HYDROGRAPH AT													
+	R3A	.19	1	FLOW	408.	399.	385.	370.	365.	361.	358.	354.	348.
				TIME	3.50	3.50	3.50	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT													
+	CR3A	54.92	1	FLOW	532.	522.	505.	488.	482.	477.	474.	468.	461.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
ROUTED TO													
+	RCR3A	54.92	1	FLOW	503.	493.	486.	481.	474.	470.	466.	461.	455.
				TIME	3.58	3.58	3.58	3.67	3.67	3.67	3.67	3.67	3.67

1

*** NORMAL END OF HEC-1 ***

B.3.20 500-year_FLAM4A

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1****************************************

 *                                      *
 *   FLOOD HYDROGRAPH PACKAGE  (HEC-1)  *
 *               JUN   1998             *
 *            VERSION 4.1               *
 *                                      *
 *  RUN DATE   20MAY20  TIME  10:09:44  *
 *                                      *
 ****************************************
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```
************************************
*                                  *
*    U.S. ARMY CORPS OF ENGINEERS  *
*    HYDROLOGIC ENGINEERING CENTER *
*         609 SECOND STREET        *
*       DAVIS, CALIFORNIA 95616    *
*            (916) 756-1104        *
*                                  *
************************************
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X     X  XXXXXXX   XXXXX           X
X     X  X        X     X         XX
X     X  X        X               X
XXXXXXX  XXXX     X        XXXXX  X
X     X  X        X               X
X     X  X        X     X         X
X     X  XXXXXXX   XXXXX          XXX
```

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL   LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM


```
          LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
                    *DIAGRAM
 *** FREE ***
               1    ID   RED ROCK TRAIL TO FY19-87
               2    ID   US FEDERAL HIGHWAY ADMINISTRATION
               3    ID   PN WXXY4000
               4    ID
               5    ID   HEC-1 MODEL TAKEN FROM CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT
               6    ID   2018 MASTER PLAN UPDATE
               7    ID   FLAMINGO / TROPICANA WASHES WATERSHED
               8    ID   RECOMMENDED DRAINAGE SYSTEM WITH ULTIMATE DEVELOPMENT
               9    ID   INPUT FILE = FLAM4A.DAT
              10    ID   INPUT FILE DATE = MAY 2020
              11    ID
              12    ID   PRECIPITATION VALUES CREATED FROM LOGRITHMIC TRENDLINE FOR 2-YEAR THROUGH
              13    ID   100-YEAR ISOPLUVIALS MAPS FROM NOAA ATLAS 2 THAT HAVE BEEN ADJUSTED PER
              14    ID   CCRFCD HYDRAULIC CRITERIA & DRAINAGE DESIGN MANUAL TABLE 501
              15    ID
              16    ID   DESIGN STORM = 500-YEAR, 6-HOUR STORM
              17    ID   STORM DISTRIBUTION = SDN4
              18    ID   STORM CENTERING = SERIES A: REGIONAL DETENTION BASIN FLOWS NOT DIVERTED OUT
              19    ID   MODELED BY JACOBS (DAVE BERGH, PE)
              20    ID
              21    ID   JR CARDS CONTAIN DARFS BASED ON THE FOLLOWING VALUES:
              22    ID
              23    ID         AREA    DARF
              24    ID         SQ.MI.
              25    ID                 SDN 3   SDN 4   SDN 5
              26    ID         0 - 0.5 0.990
              27    ID         0.5 - 1 0.975
              28    ID         1 - 2   0.950
              29    ID         2 - 3   0.925
              30    ID         3 - 4   0.915
              31    ID         4 - 5   0.908
              32    ID         5 - 6   0.903
              33    ID         6 - 7   0.895
              34    ID         7 - 8   0.885
              35    ID         8 - 9           0.875
              36    ID         9 - 10          0.865
              37    ID         10 - 11         0.857
              38    ID         11 - 12         0.850
              39    ID         12 - 16                 0.832
              40    ID         16 - 20                 0.804
              41    ID         20 - 30                 0.765
              42    ID         30 - 40                 0.725
              43    ID         40 - 50                 0.695
              44    ID         50 - 100                0.640
              45    ID         100 - 150               0.580
              46    ID         150 - 200               0.530
              47    ID
              48    IT      5       0       0     300
              49    IO      5       0       0
              50    IN      5       0       0
              51    JR    PREC   0.875   0.865   0.857    0.85
                    *
```



```
          LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
              52    KK     RR1
              53    BA   4.225
              54    PB    5.25
              55    PC       0    0.02   0.058   0.075   0.099   0.126   0.137   0.145   0.149   0.151
              56    PC   0.155   0.156   0.159   0.162   0.169   0.172   0.179   0.189   0.201   0.211
              57    PC    0.22   0.228   0.232    0.24   0.246   0.252    0.26   0.269   0.276   0.283
              58    PC   0.286   0.292   0.302   0.312   0.321   0.332   0.352   0.376   0.415   0.462
              59    PC    0.53    0.61    0.71   0.732   0.756   0.782   0.799   0.813   0.823    0.83
              60    PC   0.835   0.844   0.851   0.864   0.885   0.908   0.924   0.944   0.968   0.973
              61    PC   0.978   0.982   0.984   0.986   0.988   0.991   0.992   0.993   0.994   0.997
              62    PC   0.998   0.999       1
              63    LS       0    85.8
              64    UD   0.443
                    *
              65    KK     RR2
              66    BA   3.547
              67    PB    5.31
              68    LS       0    86.2
              69    UD   0.545
                    *
              70    KK    RRR2
              71    KM   MUSKINGUM ROUTING UNSTABLE - USED MUSKINGUM-CUNGE
              72    KM   NATURAL WASH
              73    RD    1700   0.076    0.04       0    TRAP     100       2
                    *
              74    KK    CRR2
              75    KM   COMBINE RR1 AND RRR2
              76    HC       2
                    *
              77    KK   RCRR2
              78    KM   ROUTE CRR2 TO CRR3
              79    KM   NATURAL WASH
              80    KM   TRAVEL LENGTH = 15850
              81    KM   SLOPE = 0.043
              82    KM   N = 0.04
              83    KM   HYDRAULIC RADIUS = 1.5
              84    KM   VELOCITY = 16.2
              85    RM       3   0.272    0.15
                    *
              86    KK     RR5
              87    BA   7.132
              88    PB    4.98
              89    LS       0    87.9
              90    UD   0.615
                    *
```



```
          LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
              91    KK   R-RR5
              92    KM   ROUTE RR5 THROUGH RR3 TO CRR3
              93    KM   NATURAL WASH
              94    KM   TRAVEL LENGTH = 10700
              95    KM   SLOPE = 0.037
              96    KM   N = 0.04
              97    KM   HYDRAULIC RADIUS = 1.5
              98    KM   VELOCITY = 15
              99    RM       2   0.198    0.15
                    *
             100    KK     RR3
             101    BA  14.983
             102    PB    4.88
             103    LS       0      87
             104    UD   0.761
                    *
             105    KK    CRR3
             106    KM   COMBINE RCRR2, R-RR5, AND RR3
             107    HC       3
                    *
             108    KK   RCRR3
             109    KM   ROUTE CRR3 THROUGH RR10 TO CRR10
             110    KM   NATURAL WASH
             111    KM   TRAVEL LENGTH = 20700
             112    KM   SLOPE = 0.025
             113    KM   N = 0.04
             114    KM   HYDRAULIC RADIUS = 1.5
             115    KM   VELOCITY = 12.3
             116    RM       6   0.466    0.15
                    *
             117    KK    RR10
             118    BA   8.775
```

```
 119          PB    4.43
 120          LS       0    86.1
 121          UD   0.882
              *

 122          KK   CRR10
 123          KM   COMBINE RCRR3 AND RR10
 124          HC       2
              *

 125          KK  RCRR10
 126          KM   ROUTE CRR10 THROUGH 104A TO C104A (RED ROCK DETENTION BASIN)
 127          KM   NATURAL WASH
 128          KM   TRAVEL LENGTH = 14500
 129          KM   SLOPE = 0.021
 130          KM   N = 0.04
 131          KM   HYDRAULIC RADIUS = 1.5
 132          KM   VELOCITY = 11.3
1                                    HEC-1 INPUT                                    PAGE  4

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 133          RM       4   0.356    0.15
              *

 134          KK   RR12A
 135          BA   5.821
 136          PB    4.55
 137          LS       0    87.6
 138          UD   0.728
              *

 139          KK R-RR12A
 140          KM   ROUTE RR12A THROUGH 104A TO C104A (RED ROCK DETENTION BASIN)
 141          KM   NATURAL WASH
 142          KM   TRAVEL LENGTH = 12000
 143          KM   SLOPE = 0.026
 144          KM   N = 0.04
 145          KM   HYDRAULIC RADIUS = 1.5
 146          KM   VELOCITY = 12.6
 147          RM       3   0.265    0.15
              *

 148          KK    104A
 149          BA   3.391
 150          PB    4.33
 151          LS       0    81.3
 152          UD   0.801
              *

 153          KK   C104A
 154          KM   COMBINE RCRR10, R-RR12A, AND 104A
 155          HC       3
              *

 156          KK     RD1
 157          BA   0.431
 158          PB    4.50
 159          LS       0    86.6
 160          UD   0.195
              *

 161          KK   R-RD1
 162          KM   ROUTE RD1 THROUGH RD2 TO CRD2
 163          KM   FUTURE CONCRETE CHANNEL
 164          RD    5100   0.061   0.015       0    TRAP      12       2
              *

 165          KK     RD2
 166          BA   0.473
 167          PB    4.40
 168          LS       0    91.2
 169          UD   0.167
              *
1                                    HEC-1 INPUT                                    PAGE  5

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 170          KK    CRD2
 171          KM   COMBINE R-RD1 AND RD2
 172          HC       2
              *

 173          KK   RCRD2
 174          KM   ROUTE CRD2 TO CRD3 (RED ROCK DETENTION BASIN)
 175          KM   FUTURE CONCRETE CHANNEL
 176          RD    4600    0.05   0.015       0    TRAP      12       2
              *

 177          KK     RD3
 178          BA    0.33
 179          PB    4.33
 180          LS       0    90.3
 181          UD   0.168
              *

 182          KK    CRD3
 183          KM   COMBINE RCRD2 AND RD3
 184          HC       2
              *

 185          KK   RR14A
 186          BA   4.602
 187          PB    4.43
 188          LS       0    87.3
 189          UD   0.725
              *

 190          KK R-RR14A
 191          KM   ROUTE RR14A THROUGH RD4 TO CRD4
 192          KM   FUTURE CONCRETE CHANNEL
 193          RD    5500   0.071   0.015       0    TRAP      12       2
              *

 194          KK     RD4
 195          BA   0.402
 196          PB    4.49
 197          LS       0    85.1
 198          UD   0.177
              *

 199          KK    CRD4
 200          KM   COMBINE R-RR14A AND RD4
 201          HC       2
              *

 202          KK   RCRD4
 203          KM   ROUTE CRD4 THROUGH RD5 TO CRD5
 204          KM   FUTURE CONCRETE CHANNEL
 205          RD    4550   0.067   0.015       0    TRAP      20       2
              *
1                                    HEC-1 INPUT                                    PAGE  6

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 206          KK     RD5
 207          BA    0.37
 208          PB    4.40
 209          LS       0    86.2
 210          UD   0.163
              *

 211          KK    CRD5
 212          KM   COMBINE RCRD4 AND RD5
 213          HC       2
              *

 214          KK   RCRD5
 215          KM   ROUTE CRD5 THROUGH RD6 TO CRD6 (RED ROCK DETENTION BASIN)
 216          KM   FUTURE CONCRETE CHANNEL
 217          RD    5600   0.047   0.015       0    TRAP      20       2
              *

 218          KK     RD6
 219          BA    0.25
 220          PB    4.34
 221          LS       0      90
 222          UD    0.16
              *

 223          KK    CRD6
 224          KM   COMBINE RCRD5 AND RD6
 225          HC       2
              *

 226          KK    INRR
 227          KM   COMBINE C104A, CRD3, AND CRD6 - TOTAL INFLOW TO RED ROCK DETENTION BASIN
 228          KO       1
 229          HC       3
              * ============================================================

 230          KK    RRDB
 231          KM   RED ROCK DETENTION BASIN
 232          KM   TAKEN FROM THE CORP MODELS FOR RED ROCK DETENTION BASIN
 233          KM   100YR COMPUTED PROBABILITY DETENTION DESIGN
 234          KM   FACILITY ID-MILE = RRWA 0716
 235          KM   STORAGE VOLUME = 2007 ACRE-FEET
 236          KM   OUTLET = 27"H x 27"W RCB ORIFICE
 237          KM   100-YR DISCHARGE = 182 CFS
 238          KM   SPILLWAY LENGTH = 600 FT
 239          KM   AUXILLARY OGEE SPILLWAY LENGTH = 323 FT
 240          KM   SPILLWAY CREST ELEVATION = 3212.5 FT NGVD
 241          KM   PMF DISCHARGE = 110000 CFS
 242          KM   TOP OF DAM ELEVATION = 3225 FT NGVD
 243          KO       1
 244          RS       1    STOR      -1
```

```
 245          SV       0       9     107     231     372     529     705     903    1125    1376
 246          SV    1659    1974    2007    2115    2331    2690    2933
 247          SQ       0      10      57      80      99     114     128     140     151     162
1                                          HEC-1 INPUT                                                  PAGE  7

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 248          SQ     171     181     182    8654   33270  110918  163477
 249          SE    3161    3162    3167    3172    3177    3182    3187    3192    3197    3202
 250          SE    3207    3212  3212.5    3214    3217    3222    3225
              * ============================================================

 251          KK *DOUTRR
 252          KM   DIVERT SPILLWAY OVERFLOW IN EXCESS OF CORPS DESIGN OUTFLOW
 253          DT*D-RROUT
 254          DI       0     182    3000    5000   10000
 255          DQ       0       0    2818    4818    9818
              *

 256          KK  ROUTRR
 257          KM   ROUTE OUTFLOW FROM RED ROCK DETENTION BASIN THROUGH R3A TO CR3A
 258          KM   FACILITY = RED ROCK CHANNEL
 259          KM   FACILITY # = RRWA 0714, 0709, 0701
 260          KM   LINING = RCP
 261          KM   LINING = RIPRAP CHNL 10'W X 6'D; 2:1SS
 262          RD    1500   0.008    0.04       0    TRAP      10       2
              *

 263          KK     R3A
 264          BA   0.186
 265          PB    4.21
 266          LS       0    84.3
 267          UD    0.11
              *

 268          KK    CR3A
 269          KM   COMBINE OUTFLOW FROM RED ROCK DETENTION BASIN WITH R3A
 270          HC       2
              *

 271          KK   RCR3A
 272          KM   ROUTE CR3A THROUGH UFR1 TO CUFR1
 273          KM   FACILITY = RED ROCK CHANNEL
 274          KM   FACILITY # = RRWA 0695, 0692, 0608, 0607
 275          KM   LINING = RCP
 276          RD    5045  0.0055   0.013       0    CIRC       8       0
              *

 277          ZZ
1
             SCHEMATIC DIAGRAM OF STREAM NETWORK
 INPUT
  LINE      (V) ROUTING          (--->) DIVERSION OR PUMP FLOW

   NO.      (.) CONNECTOR        (<---) RETURN OF DIVERTED OR PUMPED FLOW

    52        RR1
                .
                .
    65          .        RR2
                .          V
                .          V
    70          .       RRR2
                .          .
                .          .
    74       CRR2............
                V
                V
    77      RCRR2
                .
                .
    86          .        RR5
                .          V
                .          V
    91          .      R-RR5
                .          .
                .          .
   100          .          .        RR3
                .          .          .
                .          .          .
   105       CRR3........................
                V
                V
   108      RCRR3
                .
                .
   117          .       RR10
                .          .
                .          .
   122      CRR10............
                V
                V
   125     RCRR10
                .
                .
   134          .      RR12A
                .          V
                .          V
   139          .    R-RR12A
                .          .
                .          .
   148          .          .       104A
                .          .          .
                .          .          .
   153      C104A........................
                .
                .
   156          .        RD1
                .          V
                .          V
   161          .      R-RD1
                .          .
                .          .
   165          .          .        RD2
                .          .          .
                .          .          .
   170          .       CRD2............
                .          V
                .          V
   173          .      RCRD2
                .          .
                .          .
   177          .          .        RD3
                .          .          .
                .          .          .
   182          .       CRD3............
                .          .
                .          .
   185          .          .      RR14A
                .          .          V
                .          .          V
   190          .          .    R-RR14A
                .          .          .
                .          .          .
   194          .          .          .        RD4
                .          .          .          .
                .          .          .          .
   199          .          .       CRD4............
                .          .          V
                .          .          V
   202          .          .      RCRD4
                .          .          .
                .          .          .
   206          .          .          .        RD5
                .          .          .          .
                .          .          .          .
   211          .          .       CRD5............
                .          .          V
                .          .          V
   214          .          .      RCRD5
                .          .          .
                .          .          .
   218          .          .          .        RD6
                .          .          .          .
                .          .          .          .
   223          .          .       CRD6............
                .          .          .
                .          .          .
   226       INRR........................
                V
                V
   230       RRDB
                .
                .
   253          .------->*D-RROUT
   251     *DOUTRR
                V
                V
   256      ROUTRR
                .
                .
   263          .        R3A
                .          .
                .          .
   268       CR3A............
                V
                V
   271      RCR3A

 (***) RUNOFF ALSO COMPUTED AT THIS LOCATION
1*****************************************
 *                                       *
 *   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
 *              JUN   1998               *
 *            VERSION 4.1                *
 *                                       *
 *  RUN DATE   20MAY20  TIME  10:09:44   *
 *                                       *
 *****************************************
```

```
*************************************
*                                   *
*   U.S. ARMY CORPS OF ENGINEERS    *
*   HYDROLOGIC ENGINEERING CENTER   *
*         609 SECOND STREET         *
*      DAVIS, CALIFORNIA 95616      *
*          (916) 756-1104           *
*                                   *
*************************************
```

RED ROCK TRAIL TO FY19-87
US FEDERAL HIGHWAY ADMINISTRATION
PN WXXY4000

HEC-1 MODEL TAKEN FROM CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT
2018 MASTER PLAN UPDATE
FLAMINGO / TROPICANA WASHES WATERSHED
RECOMMENDED DRAINAGE SYSTEM WITH ULTIMATE DEVELOPMENT
INPUT FILE = FLAM4A.DAT
INPUT FILE DATE = MAY 2020

PRECIPITATION VALUES CREATED FROM LOGRITHMIC TRENDLINE FOR 2-YEAR THROUGH
100-YEAR ISOPLUVIALS MAPS FROM NOAA ATLAS 2 THAT HAVE BEEN ADJUSTED PER
CCRFCD HYDRAULIC CRITERIA & DRAINAGE DESIGN MANUAL TABLE 501

DESIGN STORM = 500-YEAR, 6-HOUR STORM
STORM DISTRIBUTION = SDN4
STORM CENTERING = SERIES A: REGIONAL DETENTION BASIN FLOWS NOT DIVERTED OUT
MODELED BY JACOBS (DAVE BERGH, PE)

JR CARDS CONTAIN DARFS BASED ON THE FOLLOWING VALUES:

AREA SQ.MI.	DARF SDN 3	SDN 4	SDN 5
0 - 0.5	0.990		
0.5 - 1	0.975		
1 - 2	0.950		
2 - 3	0.925		
3 - 4	0.915		
4 - 5	0.908		
5 - 6	0.903		
6 - 7	0.895		
7 - 8	0.885		
8 - 9		0.875	
9 - 10		0.865	
10 - 11		0.857	
11 - 12		0.850	
12 - 16			0.832
16 - 20			0.804
20 - 30			0.765
30 - 40			0.725
40 - 50			0.695
50 - 100			0.640
100 - 150			0.580
150 - 200			0.530

```
 49 IO          OUTPUT CONTROL VARIABLES
                     IPRNT          5  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL          0.  HYDROGRAPH PLOT SCALE

    IT          HYDROGRAPH TIME DATA
                      NMIN          5  MINUTES IN COMPUTATION INTERVAL
                     IDATE      1    0  STARTING DATE
                     ITIME         0000  STARTING TIME
                        NQ          300  NUMBER OF HYDROGRAPH ORDINATES
                    NDDATE      2    0  ENDING DATE
                    NDTIME         0055  ENDING TIME
                     ICENT           19  CENTURY MARK

                  COMPUTATION INTERVAL     .08 HOURS
                      TOTAL TIME BASE   24.92 HOURS

          ENGLISH UNITS
               DRAINAGE AREA         SQUARE MILES
               PRECIPITATION DEPTH   INCHES
               LENGTH, ELEVATION     FEET
               FLOW                  CUBIC FEET PER SECOND
               STORAGE VOLUME        ACRE-FEET
               SURFACE AREA          ACRES
               TEMPERATURE           DEGREES FAHRENHEIT

    JP          MULTI-PLAN OPTION
                     NPLAN           1  NUMBER OF PLANS

    JR          MULTI-RATIO OPTION
                    RATIOS OF PRECIPITATION
                    .88      .87      .86      .85


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

          **************
          *            *
 226 KK   *      INRR  *
          *            *
          **************

 228 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          1  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL          0.  HYDROGRAPH PLOT SCALE

 229 HC          HYDROGRAPH COMBINATION
                      ICOMP          3  NUMBER OF HYDROGRAPHS TO COMBINE

                                                
```

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0555	72	23344.	1		1210	147	0.	1		1825	222	0.	2		0040	297	0.
1		0600	73	22144.	1		1215	148	0.	1		1830	223	0.	2		0045	298	0.
1		0605	74	20953.	1		1220	149	0.	1		1835	224	0.	2		0050	299	0.
1		0610	75	19726.	1		1225	150	0.	1		1840	225	0.	2		0055	300	0.

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)				
		(CFS)			
41571.	4.92	15925.	4047.	3898.	3898.
		(INCHES) 2.705	2.750	2.750	2.750
		(AC-FT) 7897.	8028.	8028.	8028.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .87

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	18187.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	16845.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	15450.	1		1240	153	0.	1		1855	228	0.
1		0015	4	2.	1		0630	79	14026.	1		1245	154	0.	1		1900	229	0.
1		0020	5	16.	1		0635	80	12611.	1		1250	155	0.	1		1905	230	0.
1		0025	6	57.	1		0640	81	11239.	1		1255	156	0.	1		1910	231	0.
1		0030	7	123.	1		0645	82	9944.	1		1300	157	0.	1		1915	232	0.
1		0035	8	178.	1		0650	83	8748.	1		1305	158	0.	1		1920	233	0.
1		0040	9	206.	1		0655	84	7662.	1		1310	159	0.	1		1925	234	0.
1		0045	10	216.	1		0700	85	6688.	1		1315	160	0.	1		1930	235	0.
1		0050	11	225.	1		0705	86	5823.	1		1320	161	0.	1		1935	236	0.
1		0055	12	250.	1		0710	87	5057.	1		1325	162	0.	1		1940	237	0.
1		0100	13	298.	1		0715	88	4381.	1		1330	163	0.	1		1945	238	0.
1		0105	14	367.	1		0720	89	3784.	1		1335	164	0.	1		1950	239	0.
1		0110	15	460.	1		0725	90	3256.	1		1340	165	0.	1		1955	240	0.
1		0115	16	579.	1		0730	91	2790.	1		1345	166	0.	1		2000	241	0.
1		0120	17	717.	1		0735	92	2380.	1		1350	167	0.	1		2005	242	0.
1		0125	18	879.	1		0740	93	2019.	1		1355	168	0.	1		2010	243	0.
1		0130	19	1080.	1		0745	94	1704.	1		1400	169	0.	1		2015	244	0.
1		0135	20	1316.	1		0750	95	1431.	1		1405	170	0.	1		2020	245	0.
1		0140	21	1562.	1		0755	96	1196.	1		1410	171	0.	1		2025	246	0.
1		0145	22	1798.	1		0800	97	996.	1		1415	172	0.	1		2030	247	0.
1		0150	23	2014.	1		0805	98	826.	1		1420	173	0.	1		2035	248	0.
1		0155	24	2210.	1		0810	99	684.	1		1425	174	0.	1		2040	249	0.
1		0200	25	2401.	1		0815	100	565.	1		1430	175	0.	1		2045	250	0.
1		0205	26	2591.	1		0820	101	466.	1		1435	176	0.	1		2050	251	0.
1		0210	27	2778.	1		0825	102	383.	1		1440	177	0.	1		2055	252	0.
1		0215	28	2971.	1		0830	103	316.	1		1445	178	0.	1		2100	253	0.
1		0220	29	3178.	1		0835	104	260.	1		1450	179	0.	1		2105	254	0.
1		0225	30	3389.	1		0840	105	213.	1		1455	180	0.	1		2110	255	0.
1		0230	31	3601.	1		0845	106	175.	1		1500	181	0.	1		2115	256	0.
1		0235	32	3816.	1		0850	107	144.	1		1505	182	0.	1		2120	257	0.
1		0240	33	4058.	1		0855	108	118.	1		1510	183	0.	1		2125	258	0.
1		0245	34	4347.	1		0900	109	96.	1		1515	184	0.	1		2130	259	0.
1		0250	35	4666.	1		0905	110	78.	1		1520	185	0.	1		2135	260	0.
1		0255	36	4980.	1		0910	111	63.	1		1525	186	0.	1		2140	261	0.
1		0300	37	5299.	1		0915	112	50.	1		1530	187	0.	1		2145	262	0.
1		0305	38	5670.	1		0920	113	40.	1		1535	188	0.	1		2150	263	0.
1		0310	39	6140.	1		0925	114	31.	1		1540	189	0.	1		2155	264	0.
1		0315	40	6761.	1		0930	115	24.	1		1545	190	0.	1		2200	265	0.
1		0320	41	7587.	1		0935	116	18.	1		1550	191	0.	1		2205	266	0.
1		0325	42	8701.	1		0940	117	14.	1		1555	192	0.	1		2210	267	0.
1		0330	43	10155.	1		0945	118	11.	1		1600	193	0.	1		2215	268	0.
1		0335	44	11655.	1		0950	119	8.	1		1605	194	0.	1		2220	269	0.
1		0340	45	12633.	1		0955	120	6.	1		1610	195	0.	1		2225	270	0.
1		0345	46	13441.	1		1000	121	5.	1		1615	196	0.	1		2230	271	0.
1		0350	47	14585.	1		1005	122	4.	1		1620	197	0.	1		2235	272	0.
1		0355	48	16105.	1		1010	123	3.	1		1625	198	0.	1		2240	273	0.
1		0400	49	17886.	1		1015	124	2.	1		1630	199	0.	1		2245	274	0.
1		0405	50	19850.	1		1020	125	2.	1		1635	200	0.	1		2250	275	0.
1		0410	51	21972.	1		1025	126	1.	1		1640	201	0.	1		2255	276	0.
1		0415	52	24255.	1		1030	127	1.	1		1645	202	0.	1		2300	277	0.
1		0420	53	26704.	1		1035	128	0.	1		1650	203	0.	1		2305	278	0.
1		0425	54	29272.	1		1040	129	0.	1		1655	204	0.	1		2310	279	0.
1		0430	55	31919.	1		1045	130	0.	1		1700	205	0.	1		2315	280	0.
1		0435	56	34554.	1		1050	131	0.	1		1705	206	0.	1		2320	281	0.
1		0440	57	36948.	1		1055	132	0.	1		1710	207	0.	1		2325	282	0.
1		0445	58	38866.	1		1100	133	0.	1		1715	208	0.	1		2330	283	0.
1		0450	59	40230.	1		1105	134	0.	1		1720	209	0.	1		2335	284	0.
1		0455	60	40952.	1		1110	135	0.	1		1725	210	0.	1		2340	285	0.
1		0500	61	40878.	1		1115	136	0.	1		1730	211	0.	1		2345	286	0.
1		0505	62	40077.	1		1120	137	0.	1		1735	212	0.	1		2350	287	0.
1		0510	63	38739.	1		1125	138	0.	1		1740	213	0.	1		2355	288	0.
1		0515	64	37016.	1		1130	139	0.	1		1745	214	0.	2		0000	289	0.
1		0520	65	35050.	1		1135	140	0.	1		1750	215	0.	2		0005	290	0.
1		0525	66	32986.	1		1140	141	0.	1		1755	216	0.	2		0010	291	0.

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0530	67	30944.	1		1145	142	0.	1		1800	217	0.	2		0015	292	0.
1		0535	68	29008.	1		1150	143	0.	1		1805	218	0.	2		0020	293	0.
1		0540	69	27236.	1		1155	144	0.	1		1810	219	0.	2		0025	294	0.
1		0545	70	25659.	1		1200	145	0.	1		1815	220	0.	2		0030	295	0.
1		0550	71	24274.	1		1205	146	0.	1		1820	221	0.	2		0035	296	0.
1		0555	72	23024.	1		1210	147	0.	1		1825	222	0.	2		0040	297	0.
1		0600	73	21842.	1		1215	148	0.	1		1830	223	0.	2		0045	298	0.
1		0605	74	20669.	1		1220	149	0.	1		1835	224	0.	2		0050	299	0.
1		0610	75	19459.	1		1225	150	0.	1		1840	225	0.	2		0055	300	0.

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)				
		(CFS)			
40952.	4.92	15676.	3983.	3837.	3837.
		(INCHES) 2.663	2.707	2.707	2.707
		(AC-FT) 7773.	7901.	7901.	7901.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .86

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	17988.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	16662.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	15282.	1		1240	153	0.	1		1855	228	0.
1		0015	4	2.	1		0630	79	13875.	1		1245	154	0.	1		1900	229	0.
1		0020	5	15.	1		0635	80	12475.	1		1250	155	0.	1		1905	230	0.
1		0025	6	55.	1		0640	81	11118.	1		1255	156	0.	1		1910	231	0.
1		0030	7	118.	1		0645	82	9837.	1		1300	157	0.	1		1915	232	0.
1		0035	8	173.	1		0650	83	8654.	1		1305	158	0.	1		1920	233	0.
1		0040	9	200.	1		0655	84	7580.	1		1310	159	0.	1		1925	234	0.
1		0045	10	209.	1		0700	85	6617.	1		1315	160	0.	1		1930	235	0.
1		0050	11	217.	1		0705	86	5761.	1		1320	161	0.	1		1935	236	0.
1		0055	12	241.	1		0710	87	5004.	1		1325	162	0.	1		1940	237	0.
1		0100	13	287.	1		0715	88	4335.	1		1330	163	0.	1		1945	238	0.
1		0105	14	353.	1		0720	89	3744.	1		1335	164	0.	1		1950	239	0.
1		0110	15	444.	1		0725	90	3222.	1		1340	165	0.	1		1955	240	0.
1		0115	16	559.	1		0730	91	2761.	1		1345	166	0.	1		2000	241	0.
1		0120	17	692.	1		0735	92	2354.	1		1350	167	0.	1		2005	242	0.
1		0125	18	850.	1		0740	93	1997.	1		1355	168	0.	1		2010	243	0.
1		0130	19	1046.	1		0745	94	1686.	1		1400	169	0.	1		2015	244	0.
1		0135	20	1274.	1		0750	95	1416.	1		1405	170	0.	1		2020	245	0.
1		0140	21	1515.	1		0755	96	1183.	1		1410	171	0.	1		2025	246	0.
1		0145	22	1745.	1		0800	97	985.	1		1415	172	0.	1		2030	247	0.
1		0150	23	1956.	1		0805	98	818.	1		1420	173	0.	1		2035	248	0.
1		0155	24	2148.	1		0810	99	677.	1		1425	174	0.	1		2040	249	0.
1		0200	25	2336.	1		0815	100	559.	1		1430	175	0.	1		2045	250	0.
1		0205	26	2523.	1		0820	101	461.	1		1435	176	0.	1		2050	251	0.
1		0210	27	2708.	1		0825	102	379.	1		1440	177	0.	1		2055	252	0.
1		0215	28	2899.	1		0830	103	312.	1		1445	178	0.	1		2100	253	0.
1		0220	29	3103.	1		0835	104	257.	1		1450	179	0.	1		2105	254	0.
1		0225	30	3313.	1		0840	105	211.	1		1455	180	0.	1		2110	255	0.
1		0230	31	3523.	1		0845	106	174.	1		1500	181	0.	1		2115	256	0.
1		0235	32	3735.	1		0850	107	142.	1		1505	182	0.	1		2120	257	0.
1		0240	33	3974.	1		0855	108	117.	1		1510	183	0.	1		2125	258	0.
1		0245	34	4261.	1		0900	109	95.	1		1515	184	0.	1		2130	259	0.
1		0250	35	4576.	1		0905	110	77.	1		1520	185	0.	1		2135	260	0.
1		0255	36	4885.	1		0910	111	62.	1		1525	186	0.	1		2140	261	0.
1		0300	37	5200.	1		0915	112	50.	1		1530	187	0.	1		2145	262	0.
1		0305	38	5567.	1		0920	113	39.	1		1535	188	0.	1		2150	263	0.
1		0310	39	6030.	1		0925	114	31.	1		1540	189	0.	1		2155	264	0.
1		0315	40	6643.	1		0930	115	24.	1		1545	190	0.	1		2200	265	0.
1		0320	41	7460.	1		0935	116	18.	1		1550	191	0.	1		2205	266	0.
1		0325	42	8563.	1		0940	117	14.	1		1555	192	0.	1		2210	267	0.
1		0330	43	9998.	1		0945	118	11.	1		1600	193	0.	1		2215	268	0.
1		0335	44	11474.	1		0950	119	8.	1		1605	194	0.	1		2220	269	0.
1		0340	45	12461.	1		0955	120	6.	1		1610	195	0.	1		2225	270	0.
1		0345	46	13254.	1		1000	121	5.	1		1615	196	0.	1		2230	271	0.
1		0350	47	14378.	1		1005	122	4.	1		1620	197	0.	1		2235	272	0.
1		0355	48	15882.	1		1010	123	3.	1		1625	198	0.	1		2240	273	0.
1		0400	49	17638.	1		1015	124	2.	1		1630	199	0.	1		2245	274	0.
1		0405	50	19582.	1		1020	125	2.	1		1635	200	0.	1		2250	275	0.
1		0410	51	21676.	1		1025	126	1.	1		1640	201	0.	1		2255	276	0.
1		0415	52	23933.	1		1030	127	1.	1		1645	202	0.	1		2300	277	0.
1		0420	53	26356.	1		1035	128	0.	1		1650	203	0.	1		2305	278	0.
1		0425	54	28893.	1		1040	129	0.	1		1655	204	0.	1		2310	279	0.
1		0430	55	31513.	1		1045	130	0.	1		1700	205	0.	1		2315	280	0.
1		0435	56	34118.	1		1050	131	0.	1		1705	206	0.	1		2320	281	0.
1		0440	57	36489.	1		1055	132	0.	1		1710	207	0.	1		2325	282	0.
1		0445	58	38388.	1		1100	133	0.	1		1715	208	0.	1		2330	283	0.
1		0450	59	39740.	1		1105	134	0.	1		1720	209	0.	1		2335	284	0.
1		0455	60	40456.	1		1110	135	0.	1		1725	210	0.	1		2340	285	0.
1		0500	61	40387.	1		1115	136	0.	1		1730	211	0.	1		2345	286	0.

DA MON	HRMN	ORD	FLOW	*	DA MON	HRMN	ORD	FLOW	*	DA MON	HRMN	ORD	FLOW	*	DA MON	HRMN	ORD	FLOW
1	0505	62	39602.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	38282.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	36581.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	34643.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	32604.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	30589.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	28678.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	26927.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	25370.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	24002.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	22768.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	21600.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	20441.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	19246.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 40456.	4.92		15477.	3932.	3787.	3787.
		(INCHES)	2.629	2.672	2.672	2.672
		(AC-FT)	7674.	7799.	7799.	7799.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .85

DA MON	HRMN	ORD	FLOW	*	DA MON	HRMN	ORD	FLOW	*	DA MON	HRMN	ORD	FLOW	*	DA MON	HRMN	ORD	FLOW
1	0000	1	0.	*	1	0615	76	17814.	*	1	1230	151	0.	*	1	1845	226	0.
1	0005	2	0.	*	1	0620	77	16502.	*	1	1235	152	0.	*	1	1850	227	0.
1	0010	3	0.	*	1	0625	78	15135.	*	1	1240	153	0.	*	1	1855	228	0.
1	0015	4	2.	*	1	0630	79	13742.	*	1	1245	154	0.	*	1	1900	229	0.
1	0020	5	14.	*	1	0635	80	12356.	*	1	1250	155	0.	*	1	1905	230	0.
1	0025	6	53.	*	1	0640	81	11012.	*	1	1255	156	0.	*	1	1910	231	0.
1	0030	7	115.	*	1	0645	82	9743.	*	1	1300	157	0.	*	1	1915	232	0.
1	0035	8	168.	*	1	0650	83	8572.	*	1	1305	158	0.	*	1	1920	233	0.
1	0040	9	194.	*	1	0655	84	7508.	*	1	1310	159	0.	*	1	1925	234	0.
1	0045	10	203.	*	1	0700	85	6554.	*	1	1315	160	0.	*	1	1930	235	0.
1	0050	11	210.	*	1	0705	86	5706.	*	1	1320	161	0.	*	1	1935	236	0.
1	0055	12	234.	*	1	0710	87	4956.	*	1	1325	162	0.	*	1	1940	237	0.
1	0100	13	278.	*	1	0715	88	4294.	*	1	1330	163	0.	*	1	1945	238	0.
1	0105	14	342.	*	1	0720	89	3709.	*	1	1335	164	0.	*	1	1950	239	0.
1	0110	15	429.	*	1	0725	90	3192.	*	1	1340	165	0.	*	1	1955	240	0.
1	0115	16	541.	*	1	0730	91	2735.	*	1	1345	166	0.	*	1	2000	241	0.
1	0120	17	671.	*	1	0735	92	2332.	*	1	1350	167	0.	*	1	2005	242	0.
1	0125	18	825.	*	1	0740	93	1979.	*	1	1355	168	0.	*	1	2010	243	0.
1	0130	19	1015.	*	1	0745	94	1670.	*	1	1400	169	0.	*	1	2015	244	0.
1	0135	20	1239.	*	1	0750	95	1402.	*	1	1405	170	0.	*	1	2020	245	0.
1	0140	21	1474.	*	1	0755	96	1172.	*	1	1410	171	0.	*	1	2025	246	0.
1	0145	22	1699.	*	1	0800	97	976.	*	1	1415	172	0.	*	1	2030	247	0.
1	0150	23	1907.	*	1	0805	98	810.	*	1	1420	173	0.	*	1	2035	248	0.
1	0155	24	2095.	*	1	0810	99	670.	*	1	1425	174	0.	*	1	2040	249	0.
1	0200	25	2279.	*	1	0815	100	554.	*	1	1430	175	0.	*	1	2045	250	0.
1	0205	26	2464.	*	1	0820	101	456.	*	1	1435	176	0.	*	1	2050	251	0.
1	0210	27	2647.	*	1	0825	102	376.	*	1	1440	177	0.	*	1	2055	252	0.
1	0215	28	2836.	*	1	0830	103	309.	*	1	1445	178	0.	*	1	2100	253	0.
1	0220	29	3038.	*	1	0835	104	254.	*	1	1450	179	0.	*	1	2105	254	0.
1	0225	30	3246.	*	1	0840	105	209.	*	1	1455	180	0.	*	1	2110	255	0.
1	0230	31	3454.	*	1	0845	106	172.	*	1	1500	181	0.	*	1	2115	256	0.
1	0235	32	3665.	*	1	0850	107	141.	*	1	1505	182	0.	*	1	2120	257	0.
1	0240	33	3901.	*	1	0855	108	116.	*	1	1510	183	0.	*	1	2125	258	0.
1	0245	34	4185.	*	1	0900	109	94.	*	1	1515	184	0.	*	1	2130	259	0.
1	0250	35	4497.	*	1	0905	110	77.	*	1	1520	185	0.	*	1	2135	260	0.
1	0255	36	4803.	*	1	0910	111	62.	*	1	1525	186	0.	*	1	2140	261	0.
1	0300	37	5114.	*	1	0915	112	49.	*	1	1530	187	0.	*	1	2145	262	0.
1	0305	38	5477.	*	1	0920	113	39.	*	1	1535	188	0.	*	1	2150	263	0.
1	0310	39	5935.	*	1	0925	114	30.	*	1	1540	189	0.	*	1	2155	264	0.
1	0315	40	6542.	*	1	0930	115	24.	*	1	1545	190	0.	*	1	2200	265	0.
1	0320	41	7352.	*	1	0935	116	18.	*	1	1550	191	0.	*	1	2205	266	0.
1	0325	42	8438.	*	1	0940	117	14.	*	1	1555	192	0.	*	1	2210	267	0.
1	0330	43	9864.	*	1	0945	118	11.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	11324.	*	1	0950	119	8.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	12291.	*	1	0955	120	6.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	13089.	*	1	1000	121	5.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	14196.	*	1	1005	122	4.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	15682.	*	1	1010	123	3.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	17424.	*	1	1015	124	2.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	19343.	*	1	1020	125	1.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	21420.	*	1	1025	126	1.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	23652.	*	1	1030	127	1.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	26051.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	28564.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	31158.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	33738.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.

DA MON	HRMN	ORD	FLOW	*	DA MON	HRMN	ORD	FLOW	*	DA MON	HRMN	ORD	FLOW	*	DA MON	HRMN	ORD	FLOW
1	0440	57	36087.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	37970.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	39310.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	40024.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	39959.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	39182.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	37881.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	36202.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	34285.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	32271.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	30277.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	28388.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	26657.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	25117.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	23764.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	22544.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	21388.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	20242.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	19059.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 40024.	4.92		15303.	3887.	3744.	3744.
		(INCHES)	2.600	2.641	2.641	2.641
		(AC-FT)	7588.	7710.	7710.	7710.

CUMULATIVE AREA = 54.73 SQ MI

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230 KK * RRDB *

243 KO OUTPUT CONTROL VARIABLES
IPRNT 1 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE

HYDROGRAPH ROUTING DATA

244 RS STORAGE ROUTING
NSTPS 1 NUMBER OF SUBREACHES
ITYP STOR TYPE OF INITIAL CONDITION
RSVRIC -1.00 INITIAL CONDITION
X .00 WORKING R AND D COEFFICIENT

245 SV	STORAGE	.0	9.0	107.0	231.0	372.0	529.0	705.0	903.0	1125.0	1376.0
		1659.0	1974.0	2007.0	2115.0	2331.0	2690.0	2933.0			
247 SQ	DISCHARGE	0.	10.	57.	80.	99.	114.	128.	140.	151.	162.
		171.	181.	182.	8654.	33270.	110918.	163477.			
249 SE	ELEVATION	3161.00	3162.00	3167.00	3172.00	3177.00	3182.00	3187.00	3192.00	3197.00	3202.00
		3207.00	3212.00	3212.50	3214.00	3217.00	3222.00	3225.00			

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HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .88

DA MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000	1	0.	.0	3161.0	*	1	0820	101	720.	2013.9	3212.6	*	1	1640	201	178.	1895.2	3210.7
1	0005	2	0.	.0	3161.0	*	1	0825	102	597.	2012.3	3212.6	*	1	1645	202	178.	1893.9	3210.7
1	0010	3	0.	.0	3161.0	*	1	0830	103	494.	2011.0	3212.6	*	1	1650	203	178.	1892.7	3210.7
1	0015	4	0.	.0	3161.0	*	1	0835	104	408.	2009.9	3212.5	*	1	1655	204	178.	1891.5	3210.7
1	0020	5	0.	.1	3161.0	*	1	0840	105	336.	2009.0	3212.5	*	1	1700	205	178.	1890.3	3210.7
1	0025	6	0.	.3	3161.0	*	1	0845	106	277.	2008.2	3212.5	*	1	1705	206	178.	1889.0	3210.7
1	0030	7	1.	1.0	3161.1	*	1	0850	107	228.	2007.6	3212.5	*	1	1710	207	178.	1887.8	3210.6
1	0035	8	2.	2.0	3161.2	*	1	0855	108	187.	2007.1	3212.5	*	1	1715	208	178.	1886.6	3210.6
1	0040	9	4.	3.4	3161.4	*	1	0900	109	182.	2006.5	3212.5	*	1	1720	209	178.	1885.3	3210.6
1	0045	10	5.	4.9	3161.5	*	1	0905	110	182.	2005.9	3212.5	*	1	1725	210	178.	1884.1	3210.6
1	0050	11	7.	6.4	3161.7	*	1	0910	111	182.	2005.1	3212.5	*	1	1730	211	178.	1882.9	3210.6
1	0055	12	9.	8.1	3161.9	*	1	0915	112	182.	2004.3	3212.5	*	1	1735	212	178.	1881.7	3210.5
1	0100	13	10.	10.0	3162.1	*	1	0920	113	182.	2003.3	3212.4	*	1	1740	213	178.	1880.4	3210.5
1	0105	14	12.	12.3	3162.2	*	1	0925	114	182.	2002.3	3212.4	*	1	1745	214	178.	1879.2	3210.5
1	0110	15	13.	15.2	3162.3	*	1	0930	115	182.	2001.3	3212.4	*	1	1750	215	178.	1878.0	3210.5
1	0115	16	15.	18.8	3162.5	*	1	0935	116	182.	2000.2	3212.4	*	1	1755	216	178.	1876.8	3210.5
1	0120	17	17.	23.4	3162.7	*	1	0940	117	182.	1999.0	3212.4	*	1	1800	217	178.	1875.5	3210.4

1	0125	18	20.	29.0	3163.0	*	1	0945	118	182.	1997.9	3212.4	*	1	1805	218	178.	1874.3	3210.4
1	0130	19	23.	35.9	3163.4	*	1	0950	119	182.	1996.7	3212.3	*	1	1810	219	178.	1873.1	3210.4
1	0135	20	27.	44.3	3163.8	*	1	0955	120	182.	1995.5	3212.3	*	1	1815	220	178.	1871.9	3210.4
1	0140	21	32.	54.4	3164.3	*	1	1000	121	182.	1994.3	3212.3	*	1	1820	221	178.	1870.6	3210.4
1	0145	22	37.	66.2	3164.9	*	1	1005	122	182.	1993.1	3212.3	*	1	1825	222	178.	1869.4	3210.3
1	0150	23	44.	79.5	3165.6	*	1	1010	123	182.	1991.8	3212.3	*	1	1830	223	178.	1868.2	3210.3
1	0155	24	51.	94.2	3166.3	*	1	1015	124	182.	1990.6	3212.3	*	1	1835	224	178.	1867.0	3210.3
1	0200	25	58.	110.3	3167.1	*	1	1020	125	181.	1989.4	3212.2	*	1	1840	225	178.	1865.7	3210.3
1	0205	26	61.	127.7	3167.8	*	1	1025	126	181.	1988.1	3212.2	*	1	1845	226	178.	1864.5	3210.3
1	0210	27	64.	146.3	3168.6	*	1	1030	127	181.	1986.9	3212.2	*	1	1850	227	177.	1863.3	3210.2
1	0215	28	68.	166.3	3169.4	*	1	1035	128	181.	1985.6	3212.2	*	1	1855	228	177.	1862.1	3210.2
1	0220	29	72.	187.6	3170.3	*	1	1040	129	181.	1984.4	3212.2	*	1	1900	229	177.	1860.9	3210.2
1	0225	30	76.	210.4	3171.2	*	1	1045	130	181.	1983.1	3212.1	*	1	1905	230	177.	1859.6	3210.2
1	0230	31	80.	234.6	3172.1	*	1	1050	131	181.	1981.9	3212.1	*	1	1910	231	177.	1858.4	3210.2
1	0235	32	84.	260.2	3173.0	*	1	1055	132	181.	1980.6	3212.1	*	1	1915	232	177.	1857.2	3210.1
1	0240	33	88.	287.5	3174.0	*	1	1100	133	181.	1979.4	3212.1	*	1	1920	233	177.	1856.0	3210.1
1	0245	34	92.	316.5	3175.0	*	1	1105	134	181.	1978.1	3212.1	*	1	1925	234	177.	1854.8	3210.1
1	0250	35	96.	347.7	3176.1	*	1	1110	135	181.	1976.9	3212.0	*	1	1930	235	177.	1853.5	3210.1
1	0255	36	100.	381.0	3177.3	*	1	1115	136	181.	1975.7	3212.0	*	1	1935	236	177.	1852.3	3210.1
1	0300	37	103.	416.6	3178.4	*	1	1120	137	181.	1974.4	3212.0	*	1	1940	237	177.	1851.1	3210.0
1	0305	38	107.	454.5	3179.6	*	1	1125	138	181.	1973.2	3212.0	*	1	1945	238	177.	1849.9	3210.0
1	0310	39	111.	495.3	3180.9	*	1	1130	139	181.	1971.9	3212.0	*	1	1950	239	177.	1848.7	3210.0
1	0315	40	115.	540.0	3182.3	*	1	1135	140	181.	1970.7	3211.9	*	1	1955	240	177.	1847.4	3210.0
1	0320	41	119.	589.6	3183.7	*	1	1140	141	181.	1969.4	3211.9	*	1	2000	241	177.	1846.2	3210.0
1	0325	42	123.	646.1	3185.3	*	1	1145	142	181.	1968.2	3211.9	*	1	2005	242	177.	1845.0	3210.0
1	0330	43	128.	711.4	3187.2	*	1	1150	143	181.	1966.9	3211.9	*	1	2010	243	177.	1843.8	3209.9
1	0335	44	133.	787.1	3189.1	*	1	1155	144	181.	1965.7	3211.9	*	1	2015	244	177.	1842.6	3209.9
1	0340	45	138.	871.3	3191.2	*	1	1200	145	181.	1964.4	3211.8	*	1	2020	245	177.	1841.3	3209.9
1	0345	46	143.	961.9	3193.3	*	1	1205	146	181.	1963.2	3211.8	*	1	2025	246	177.	1840.1	3209.9
1	0350	47	148.	1059.1	3195.5	*	1	1210	147	181.	1962.0	3211.8	*	1	2030	247	177.	1838.9	3209.9
1	0355	48	153.	1165.7	3197.8	*	1	1215	148	181.	1960.7	3211.8	*	1	2035	248	177.	1837.7	3209.8
1	0400	49	158.	1283.7	3200.2	*	1	1220	149	181.	1959.5	3211.8	*	1	2040	249	177.	1836.5	3209.8
1	0405	50	163.	1414.8	3202.7	*	1	1225	150	180.	1958.2	3211.7	*	1	2045	250	177.	1835.3	3209.8
1	0410	51	168.	1560.1	3205.3	*	1	1230	151	180.	1957.0	3211.7	*	1	2050	251	177.	1834.0	3209.8
1	0415	52	173.	1720.8	3208.0	*	1	1235	152	180.	1955.7	3211.7	*	1	2055	252	177.	1832.8	3209.8
1	0420	53	179.	1897.9	3210.8	*	1	1240	153	180.	1954.5	3211.7	*	1	2100	253	176.	1831.6	3209.7
1	0425	54	5466.	2074.4	3213.4	*	1	1245	154	180.	1953.2	3211.7	*	1	2105	254	176.	1830.4	3209.7
1	0430	55	18870.	2204.6	3215.2	*	1	1250	155	180.	1952.0	3211.7	*	1	2110	255	176.	1829.2	3209.7
1	0435	56	27264.	2278.3	3216.3	*	1	1255	156	180.	1950.8	3211.6	*	1	2115	256	176.	1828.0	3209.7
1	0440	57	32364.	2323.0	3216.9	*	1	1300	157	180.	1949.5	3211.6	*	1	2120	257	176.	1826.8	3209.7
1	0445	58	37131.	2348.9	3217.2	*	1	1305	158	180.	1948.3	3211.6	*	1	2125	258	176.	1825.5	3209.6
1	0450	59	39712.	2360.8	3217.4	*	1	1310	159	180.	1947.0	3211.6	*	1	2130	259	176.	1824.3	3209.6
1	0455	60	40988.	2366.7	3217.5	*	1	1315	160	180.	1945.8	3211.6	*	1	2135	260	176.	1823.1	3209.6
1	0500	61	41452.	2368.8	3217.5	*	1	1320	161	180.	1944.6	3211.5	*	1	2140	261	176.	1821.9	3209.6
1	0505	62	41138.	2367.4	3217.5	*	1	1325	162	180.	1943.3	3211.5	*	1	2145	262	176.	1820.7	3209.6
1	0510	63	40161.	2362.9	3217.4	*	1	1330	163	180.	1942.1	3211.5	*	1	2150	263	176.	1819.5	3209.5
1	0515	64	38688.	2356.0	3217.3	*	1	1335	164	180.	1940.8	3211.5	*	1	2155	264	176.	1818.3	3209.5
1	0520	65	36872.	2347.7	3217.2	*	1	1340	165	180.	1939.6	3211.5	*	1	2200	265	176.	1817.0	3209.5
1	0525	66	34858.	2338.3	3217.1	*	1	1345	166	180.	1938.4	3211.4	*	1	2205	266	176.	1815.8	3209.5
1	0530	67	32948.	2328.2	3217.0	*	1	1350	167	180.	1937.1	3211.4	*	1	2210	267	176.	1814.6	3209.5
1	0535	68	31515.	2315.6	3216.8	*	1	1355	168	180.	1935.9	3211.4	*	1	2215	268	176.	1813.4	3209.5
1	0540	69	29828.	2300.8	3216.6	*	1	1400	169	180.	1934.6	3211.4	*	1	2220	269	176.	1812.2	3209.4
1	0545	70	28133.	2285.9	3216.4	*	1	1405	170	180.	1933.4	3211.4	*	1	2225	270	176.	1811.0	3209.4
1	0550	71	26546.	2272.0	3216.2	*	1	1410	171	180.	1932.2	3211.3	*	1	2230	271	176.	1809.8	3209.4
1	0555	72	25099.	2259.3	3216.0	*	1	1415	172	180.	1930.9	3211.3	*	1	2235	272	176.	1808.6	3209.4
1	0600	73	23772.	2247.7	3215.8	*	1	1420	173	180.	1929.7	3211.3	*	1	2240	273	176.	1807.4	3209.4
1	0605	74	22518.	2236.7	3215.7	*	1	1425	174	180.	1928.5	3211.3	*	1	2245	274	176.	1806.1	3209.3
1	0610	75	21290.	2225.9	3215.5	*	1	1430	175	180.	1927.2	3211.3	*	1	2250	275	176.	1804.9	3209.3
1	0615	76	20045.	2215.0	3215.4	*	1	1435	176	179.	1926.0	3211.2	*	1	2255	276	176.	1803.7	3209.3
1	0620	77	18754.	2203.6	3215.2	*	1	1440	177	179.	1924.8	3211.2	*	1	2300	277	176.	1802.5	3209.3
1	0625	78	17408.	2191.8	3215.1	*	1	1445	178	179.	1923.5	3211.2	*	1	2305	278	176.	1801.3	3209.3
1	0630	79	16016.	2179.6	3214.9	*	1	1450	179	179.	1922.3	3211.2	*	1	2310	279	175.	1800.1	3209.2
1	0635	80	14597.	2167.1	3214.7	*	1	1455	180	179.	1921.0	3211.2	*	1	2315	280	175.	1798.9	3209.2
1	0640	81	13181.	2154.7	3214.6	*	1	1500	181	179.	1919.8	3211.1	*	1	2320	281	175.	1797.7	3209.2
1	0645	82	11802.	2142.6	3214.4	*	1	1505	182	179.	1918.6	3211.1	*	1	2325	282	175.	1796.5	3209.2
1	0650	83	10488.	2131.1	3214.2	*	1	1510	183	179.	1917.3	3211.1	*	1	2330	283	175.	1795.3	3209.2
1	0655	84	9263.	2120.3	3214.1	*	1	1515	184	179.	1916.1	3211.1	*	1	2335	284	175.	1794.1	3209.1
1	0700	85	8266.	2110.1	3213.9	*	1	1520	185	179.	1914.9	3211.1	*	1	2340	285	175.	1792.9	3209.1
1	0705	86	7447.	2099.6	3213.8	*	1	1525	186	179.	1913.6	3211.0	*	1	2345	286	175.	1791.6	3209.1
1	0710	87	6624.	2089.1	3213.6	*	1	1530	187	179.	1912.4	3211.0	*	1	2350	287	175.	1790.4	3209.1
1	0715	88	5841.	2079.1	3213.5	*	1	1535	188	179.	1911.2	3211.0	*	1	2355	288	175.	1789.2	3209.1
1	0720	89	5116.	2069.9	3213.4	*	1	1540	189	179.	1909.9	3211.0	*	2	0000	289	175.	1788.0	3209.0
1	0725	90	4457.	2061.5	3213.3	*	1	1545	190	179.	1908.7	3211.0	*	2	0005	290	175.	1786.8	3209.0
1	0730	91	3864.	2053.9	3213.2	*	1	1550	191	179.	1907.5	3210.9	*	2	0010	291	175.	1785.6	3209.0
1	0735	92	3335.	2047.2	3213.1	*	1	1555	192	179.	1906.2	3210.9	*	2	0015	292	175.	1784.4	3209.0
1	0740	93	2864.	2041.2	3213.0	*	1	1600	193	179.	1905.0	3210.9	*	2	0020	293	175.	1783.2	3209.0
1	0745	94	2448.	2035.9	3212.9	*	1	1605	194	179.	1903.8	3210.9	*	2	0025	294	175.	1782.0	3209.0
1	0750	95	2082.	2031.2	3212.8	*	1	1610	195	179.	1902.6	3210.9	*	2	0030	295	175.	1780.8	3208.9
1	0755	96	1763.	2027.1	3212.8	*	1	1615	196	179.	1901.3	3210.8	*	2	0035	296	175.	1779.6	3208.9
1	0800	97	1485.	2023.6	3212.7	*	1	1620	197	179.	1900.1	3210.8	*	2	0040	297	175.	1778.4	3208.9
1	0805	98	1246.	2020.6	3212.7	*	1	1625	198	179.	1898.9	3210.8	*	2	0045	298	175.	1777.2	3208.9
1	0810	99	1041.	2018.0	3212.7	*	1	1630	199	179.	1897.6	3210.8	*	2	0050	299	175.	1776.0	3208.9
1	0815	100	867.	2015.7	3212.6	*	1	1635	200	179.	1896.4	3210.8	*	2	0055	300	175.	1774.8	3208.8
						*							*								

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
	(CFS)				
+ 41452.	5.00	12128.	3153.	3037.	3037.
	(INCHES)	2.060	2.142	2.142	2.142
	(AC-FT)	6014.	6253.	6253.	6253.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
2369.	5.00	2124.	1740.	1676.	1676.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3217.53	5.00	3214.12	3206.71	3205.03	3205.03

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .87

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE		DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE		DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	3161.0	*	1		0820	101	711.	2013.7	3212.6	*	1		1640	201	178.	1895.1	3210.7
1		0005	2	0.	.0	3161.0	*	1		0825	102	589.	2012.2	3212.6	*	1		1645	202	178.	1893.9	3210.7
1		0010	3	0.	.0	3161.0	*	1		0830	103	487.	2010.9	3212.6	*	1		1650	203	178.	1892.6	3210.7
1		0015	4	0.	.0	3161.0	*	1		0835	104	402.	2009.8	3212.5	*	1		1655	204	178.	1891.4	3210.7
1		0020	5	0.	.1	3161.0	*	1		0840	105	332.	2008.9	3212.5	*	1		1700	205	178.	1890.2	3210.7
1		0025	6	0.	.3	3161.0	*	1		0845	106	273.	2008.2	3212.5	*	1		1705	206	178.	1889.0	3210.7
1		0030	7	1.	.9	3161.1	*	1		0850	107	225.	2007.5	3212.5	*	1		1710	207	178.	1887.7	3210.6
1		0035	8	2.	2.0	3161.2	*	1		0855	108	185.	2007.0	3212.5	*	1		1715	208	178.	1886.5	3210.6
1		0040	9	4.	3.3	3161.4	*	1		0900	109	182.	2006.5	3212.5	*	1		1720	209	178.	1885.3	3210.6
1		0045	10	5.	4.7	3161.5	*	1		0905	110	182.	2005.9	3212.5	*	1		1725	210	178.	1884.1	3210.6
1		0050	11	7.	6.2	3161.7	*	1		0910	111	182.	2005.1	3212.5	*	1		1730	211	178.	1882.8	3210.6
1		0055	12	9.	7.7	3161.9	*	1		0915	112	182.	2004.2	3212.5	*	1		1735	212	178.	1881.6	3210.5
1		0100	13	10.	9.6	3162.0	*	1		0920	113	182.	2003.3	3212.4	*	1		1740	213	178.	1880.4	3210.5
1		0105	14	11.	11.8	3162.1	*	1		0925	114	182.	2002.3	3212.4	*	1		1745	214	178.	1879.1	3210.5
1		0110	15	13.	14.5	3162.3	*	1		0930	115	182.	2001.2	3212.4	*	1		1750	215	178.	1877.9	3210.5
1		0115	16	14.	18.0	3162.5	*	1		0935	116	182.	2000.1	3212.4	*	1		1755	216	178.	1876.7	3210.5
1		0120	17	16.	22.4	3162.7	*	1		0940	117	182.	1999.0	3212.4	*	1		1800	217	178.	1875.5	3210.4
1		0125	18	19.	27.8	3163.0	*	1		0945	118	182.	1997.8	3212.4	*	1		1805	218	178.	1874.2	3210.4
1		0130	19	22.	34.4	3163.3	*	1		0950	119	182.	1996.6	3212.3	*	1		1810	219	178.	1873.0	3210.4
1		0135	20	26.	42.4	3163.7	*	1		0955	120	182.	1995.4	3212.3	*	1		1815	220	178.	1871.8	3210.4
1		0140	21	31.	52.2	3164.2	*	1		1000	121	182.	1994.2	3212.3	*	1		1820	221	178.	1870.6	3210.4
1		0145	22	36.	63.5	3164.8	*	1		1005	122	182.	1993.0	3212.3	*	1		1825	222	178.	1869.3	3210.3
1		0150	23	42.	76.4	3165.4	*	1		1010	123	182.	1991.8	3212.3	*	1		1830	223	178.	1868.1	3210.3
1		0155	24	49.	90.6	3166.2	*	1		1015	124	182.	1990.5	3212.3	*	1		1835	224	178.	1866.9	3210.3
1		0200	25	57.	106.1	3167.0	*	1		1020	125	181.	1989.3	3212.2	*	1		1840	225	178.	1865.7	3210.3
1		0205	26	60.	122.9	3167.6	*	1		1025	126	181.	1988.0	3212.2	*	1		1845	226	178.	1864.5	3210.3
1		0210	27	63.	141.0	3168.4	*	1		1030	127	181.	1986.8	3212.2	*	1		1850	227	177.	1863.2	3210.2
1		0215	28	67.	160.3	3169.1	*	1		1035	128	181.	1985.6	3212.2	*	1		1855	228	177.	1862.0	3210.2
1		0220	29	71.	181.0	3170.0	*	1		1040	129	181.	1984.3	3212.2	*	1		1900	229	177.	1860.8	3210.2
1		0225	30	75.	203.1	3170.9	*	1		1045	130	181.	1983.1	3212.1	*	1		1905	230	177.	1859.6	3210.2
1		0230	31	79.	226.7	3171.8	*	1		1050	131	181.	1981.8	3212.1	*	1		1910	231	177.	1858.3	3210.2
1		0235	32	83.	251.6	3172.7	*	1		1055	132	181.	1980.6	3212.1	*	1		1915	232	177.	1857.1	3210.1
1		0240	33	86.	278.2	3173.7	*	1		1100	133	181.	1979.3	3212.1	*	1		1920	233	177.	1855.9	3210.1
1		0245	34	90.	306.5	3174.7	*	1		1105	134	181.	1978.1	3212.1	*	1		1925	234	177.	1854.7	3210.1
1		0250	35	94.	336.9	3175.8	*	1		1110	135	181.	1976.8	3212.0	*	1		1930	235	177.	1853.5	3210.1
1		0255	36	99.	369.5	3176.9	*	1		1115	136	181.	1975.6	3212.0	*	1		1935	236	177.	1852.2	3210.1
1		0300	37	102.	404.2	3178.0	*	1		1120	137	181.	1974.3	3212.0	*	1		1940	237	177.	1851.0	3210.0
1		0305	38	106.	441.2	3179.2	*	1		1125	138	181.	1973.1	3212.0	*	1		1945	238	177.	1849.8	3210.0
1		0310	39	109.	481.2	3180.5	*	1		1130	139	181.	1971.8	3212.0	*	1		1950	239	177.	1848.6	3210.0
1		0315	40	114.	524.8	3181.9	*	1		1135	140	181.	1970.6	3211.9	*	1		1955	240	177.	1847.4	3210.0
1		0320	41	118.	573.4	3183.3	*	1		1140	141	181.	1969.4	3211.9	*	1		2000	241	177.	1846.1	3210.0
1		0325	42	122.	628.7	3184.8	*	1		1145	142	181.	1968.1	3211.9	*	1		2005	242	177.	1844.9	3210.0
1		0330	43	127.	692.8	3186.7	*	1		1150	143	181.	1966.9	3211.9	*	1		2010	243	177.	1843.7	3209.9
1		0335	44	132.	767.0	3188.6	*	1		1155	144	181.	1965.6	3211.9	*	1		2015	244	177.	1842.5	3209.9
1		0340	45	137.	849.7	3190.7	*	1		1200	145	181.	1964.4	3211.8	*	1		2020	245	177.	1841.3	3209.9
1		0345	46	142.	938.5	3192.8	*	1		1205	146	181.	1963.1	3211.8	*	1		2025	246	177.	1840.1	3209.9
1		0350	47	146.	1034.0	3195.0	*	1		1210	147	181.	1961.9	3211.8	*	1		2030	247	177.	1838.8	3209.9
1		0355	48	152.	1138.7	3197.3	*	1		1215	148	181.	1960.6	3211.8	*	1		2035	248	177.	1837.6	3209.8
1		0400	49	157.	1254.7	3199.6	*	1		1220	149	181.	1959.4	3211.8	*	1		2040	249	177.	1836.4	3209.8
1		0405	50	162.	1383.5	3202.1	*	1		1225	150	180.	1958.2	3211.7	*	1		2045	250	177.	1835.2	3209.8
1		0410	51	167.	1526.4	3204.7	*	1		1230	151	180.	1956.9	3211.7	*	1		2050	251	177.	1834.0	3209.8
1		0415	52	172.	1684.4	3207.4	*	1		1235	152	180.	1955.7	3211.7	*	1		2055	252	177.	1832.8	3209.8
1		0420	53	177.	1858.7	3210.2	*	1		1240	153	180.	1954.4	3211.7	*	1		2100	253	176.	1831.5	3209.7
1		0425	54	2851.	2041.0	3213.0	*	1		1245	154	180.	1953.2	3211.7	*	1		2105	254	176.	1830.3	3209.7
1		0430	55	16603.	2184.7	3215.0	*	1		1250	155	180.	1951.9	3211.6	*	1		2110	255	176.	1829.1	3209.7
1		0435	56	25979.	2267.0	3216.1	*	1		1255	156	180.	1950.7	3211.6	*	1		2115	256	176.	1827.9	3209.7
1		0440	57	31487.	2315.4	3216.8	*	1		1300	157	180.	1949.5	3211.6	*	1		2120	257	176.	1826.7	3209.7
1		0445	58	36051.	2343.9	3217.2	*	1		1305	158	180.	1948.2	3211.6	*	1		2125	258	176.	1825.5	3209.6
1		0450	59	39037.	2357.7	3217.4	*	1		1310	159	180.	1947.0	3211.6	*	1		2130	259	176.	1824.3	3209.6
1		0455	60	40364.	2363.8	3217.5	*	1		1315	160	180.	1945.7	3211.6	*	1		2135	260	176.	1823.0	3209.6
1		0500	61	40834.	2366.0	3217.5	*	1		1320	161	180.	1944.5	3211.5	*	1		2140	261	176.	1821.8	3209.6
1		0505	62	40530.	2364.6	3217.5	*	1		1325	162	180.	1943.3	3211.5	*	1		2145	262	176.	1820.6	3209.6
1		0510	63	39572.	2360.1	3217.4	*	1		1330	163	180.	1942.0	3211.5	*	1		2150	263	176.	1819.4	3209.5
1		0515	64	38125.	2353.4	3217.3	*	1		1335	164	180.	1940.8	3211.5	*	1		2155	264	176.	1818.2	3209.5
1		0520	65	36339.	2345.2	3217.2	*	1		1340	165	180.	1939.5	3211.5	*	1		2200	265	176.	1817.0	3209.5
1		0525	66	34358.	2336.0	3217.1	*	1		1345	166	180.	1938.3	3211.4	*	1		2205	266	176.	1815.8	3209.5
1		0530	67	32640.	2325.5	3216.9	*	1		1350	167	180.	1937.1	3211.4	*	1		2210	267	176.	1814.6	3209.5
1		0535	68	31138.	2312.3	3216.7	*	1		1355	168	180.	1935.8	3211.4	*	1		2215	268	176.	1813.3	3209.4
1		0540	69	29438.	2297.4	3216.5	*	1		1400	169	180.	1934.6	3211.4	*	1		2220	269

1		0600	73	23446.	2244.8	3215.8	1		1420	173	180.	1929.6	3211.3	1		2240	273	176.	1807.3	3209.4
1		0605	74	22211.	2234.0	3215.7	1		1425	174	180.	1928.4	3211.3	1		2245	274	176.	1806.1	3209.3
1		0610	75	21001.	2223.3	3215.5	1		1430	175	180.	1927.2	3211.3	1		2250	275	176.	1804.9	3209.3
1		0615	76	19773.	2212.6	3215.4	1		1435	176	179.	1925.9	3211.2	1		2255	276	176.	1803.7	3209.3
1		0620	77	18501.	2201.4	3215.2	1		1440	177	179.	1924.7	3211.2	1		2300	277	176.	1802.5	3209.3
1		0625	78	17174.	2189.8	3215.0	1		1445	178	179.	1923.5	3211.2	1		2305	278	176.	1801.2	3209.3
1		0630	79	15801.	2177.7	3214.9	1		1450	179	179.	1922.2	3211.2	1		2310	279	175.	1800.0	3209.2
1		0635	80	14402.	2165.4	3214.7	1		1455	180	179.	1921.0	3211.2	1		2315	280	175.	1798.8	3209.2
1		0640	81	13006.	2153.2	3214.5	1		1500	181	179.	1919.7	3211.1	1		2320	281	175.	1797.6	3209.2
1		0645	82	11645.	2141.2	3214.4	1		1505	182	179.	1918.5	3211.1	1		2325	282	175.	1796.4	3209.2
1		0650	83	10349.	2129.9	3214.2	1		1510	183	179.	1917.3	3211.1	1		2330	283	175.	1795.2	3209.2
1		0655	84	9140.	2119.3	3214.1	1		1515	184	179.	1916.0	3211.1	1		2335	284	175.	1794.0	3209.1
1		0700	85	8185.	2109.0	3213.9	1		1520	185	179.	1914.8	3211.1	1		2340	285	175.	1792.8	3209.1
1		0705	86	7364.	2098.6	3213.8	1		1525	186	179.	1913.6	3211.0	1		2345	286	175.	1791.6	3209.1
1		0710	87	6546.	2088.1	3213.6	1		1530	187	179.	1912.3	3211.0	1		2350	287	175.	1790.4	3209.1
1		0715	88	5769.	2078.2	3213.5	1		1535	188	179.	1911.1	3211.0	1		2355	288	175.	1789.2	3209.1
1		0720	89	5052.	2069.1	3213.4	1		1540	189	179.	1909.9	3211.0	2		0000	289	175.	1788.0	3209.0
1		0725	90	4400.	2060.8	3213.2	1		1545	190	179.	1908.6	3211.0	2		0005	290	175.	1786.8	3209.0
1		0730	91	3815.	2053.3	3213.1	1		1550	191	179.	1907.4	3210.9	2		0010	291	175.	1785.5	3209.0
1		0735	92	3292.	2046.6	3213.1	1		1555	192	179.	1906.2	3210.9	2		0015	292	175.	1784.3	3209.0
1		0740	93	2827.	2040.7	3213.0	1		1600	193	179.	1904.9	3210.9	2		0020	293	175.	1783.1	3209.0
1		0745	94	2416.	2035.5	3212.9	1		1605	194	179.	1903.7	3210.9	2		0025	294	175.	1781.9	3209.0
1		0750	95	2055.	2030.9	3212.8	1		1610	195	179.	1902.5	3210.9	2		0030	295	175.	1780.7	3208.9
1		0755	96	1740.	2026.9	3212.8	1		1615	196	179.	1901.3	3210.8	2		0035	296	175.	1779.5	3208.9
1		0800	97	1466.	2023.4	3212.7	1		1620	197	179.	1900.0	3210.8	2		0040	297	175.	1778.3	3208.9
1		0805	98	1230.	2020.4	3212.7	1		1625	198	179.	1898.8	3210.8	2		0045	298	175.	1777.1	3208.9
1		0810	99	1028.	2017.8	3212.6	1		1630	199	179.	1897.6	3210.8	2		0050	299	175.	1775.9	3208.9
1		0815	100	856.	2015.6	3212.6	1		1635	200	179.	1896.3	3210.8	2		0055	300	175.	1774.7	3208.8

MAXIMUM AVERAGE FLOW

PEAK FLOW	TIME		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 40834.	5.00		11872.	3088.	2975.	2975.
		(INCHES)	2.017	2.099	2.099	2.099
		(AC-FT)	5887.	6126.	6126.	6126.

MAXIMUM AVERAGE STORAGE

PEAK STORAGE	TIME	6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
2366.	5.00	2122.	1737.	1674.	1674.

MAXIMUM AVERAGE STAGE

PEAK STAGE	TIME	6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3217.49	5.00	3214.09	3206.65	3204.98	3204.98

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB

PLAN 1, RATIO = .86

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	3161.0	1		0820	101	704.	2013.6	3212.6	1		1640	201	178.	1895.1	3210.7
1		0005	2	0.	.0	3161.0	1		0825	102	583.	2012.1	3212.6	1		1645	202	178.	1893.8	3210.7
1		0010	3	0.	.0	3161.0	1		0830	103	482.	2010.8	3212.6	1		1650	203	178.	1892.6	3210.7
1		0015	4	0.	.0	3161.0	1		0835	104	398.	2009.8	3212.5	1		1655	204	178.	1891.4	3210.7
1		0020	5	0.	.1	3161.0	1		0840	105	328.	2008.9	3212.5	1		1700	205	178.	1890.1	3210.7
1		0025	6	0.	.3	3161.0	1		0845	106	270.	2008.1	3212.5	1		1705	206	178.	1888.9	3210.6
1		0030	7	1.	.9	3161.1	1		0850	107	223.	2007.5	3212.5	1		1710	207	178.	1887.7	3210.6
1		0035	8	2.	1.9	3161.2	1		0855	108	183.	2007.0	3212.5	1		1715	208	178.	1886.5	3210.6
1		0040	9	3.	3.1	3161.3	1		0900	109	182.	2006.5	3212.5	1		1720	209	178.	1885.2	3210.6
1		0045	10	5.	4.5	3161.5	1		0905	110	182.	2005.8	3212.5	1		1725	210	178.	1884.0	3210.6
1		0050	11	7.	6.0	3161.7	1		0910	111	182.	2005.1	3212.5	1		1730	211	178.	1882.8	3210.6
1		0055	12	8.	7.5	3161.8	1		0915	112	182.	2004.2	3212.5	1		1735	212	178.	1881.5	3210.5
1		0100	13	10.	9.2	3162.0	1		0920	113	182.	2003.2	3212.4	1		1740	213	178.	1880.3	3210.5
1		0105	14	11.	11.4	3162.1	1		0925	114	182.	2002.2	3212.4	1		1745	214	178.	1879.1	3210.5
1		0110	15	12.	14.0	3162.3	1		0930	115	182.	2001.2	3212.4	1		1750	215	178.	1877.9	3210.5
1		0115	16	14.	17.4	3162.4	1		0935	116	182.	2000.1	3212.4	1		1755	216	178.	1876.6	3210.5
1		0120	17	16.	21.6	3162.6	1		0940	117	182.	1998.9	3212.4	1		1800	217	178.	1875.4	3210.4
1		0125	18	19.	26.8	3162.9	1		0945	118	182.	1997.8	3212.4	1		1805	218	178.	1874.2	3210.4
1		0130	19	22.	33.2	3163.2	1		0950	119	182.	1996.6	3212.3	1		1810	219	178.	1873.0	3210.4
1		0135	20	25.	41.0	3163.6	1		0955	120	182.	1995.4	3212.3	1		1815	220	178.	1871.7	3210.4
1		0140	21	30.	50.4	3164.1	1		1000	121	182.	1994.2	3212.3	1		1820	221	178.	1870.5	3210.4
1		0145	22	35.	61.4	3164.7	1		1005	122	182.	1992.9	3212.3	1		1825	222	178.	1869.3	3210.3
1		0150	23	41.	73.9	3165.3	1		1010	123	182.	1991.7	3212.3	1		1830	223	178.	1868.1	3210.3
1		0155	24	48.	87.7	3166.0	1		1015	124	181.	1990.5	3212.2	1		1835	224	178.	1866.8	3210.3
1		0200	25	55.	102.8	3166.8	1		1020	125	181.	1989.2	3212.2	1		1840	225	178.	1865.6	3210.3
1		0205	26	59.	119.2	3167.5	1		1025	126	181.	1988.0	3212.2	1		1845	226	178.	1864.4	3210.3
1		0210	27	63.	136.8	3168.2	1		1030	127	181.	1986.7	3212.2	1		1850	227	177.	1863.2	3210.2
1		0215	28	66.	155.6	3169.0	1		1035	128	181.	1985.5	3212.2	1		1855	228	177.	1862.0	3210.2
1		0220	29	70.	175.8	3169.8	1		1040	129	181.	1984.3	3212.2	1		1900	229	177.	1860.7	3210.2
1		0225	30	74.	197.4	3170.6	1		1045	130	181.	1983.0	3212.1	1		1905	230	177.	1859.5	3210.2
1		0230	31	78.	220.4	3171.6	1		1050	131	181.	1981.8	3212.1	1		1910	231	177.	1858.3	3210.2
1		0235	32	82.	244.9	3172.5	1		1055	132	181.	1980.5	3212.1	1		1915	232	177.	1857.1	3210.1
1		0240	33	85.	270.8	3173.4	1		1100	133	181.	1979.3	3212.1	1		1920	233	177.	1855.9	3210.1
1		0245	34	89.	298.6	3174.4	1		1105	134	181.	1978.0	3212.1	1		1925	234	177.	1854.6	3210.1
1		0250	35	93.	328.4	3175.5	1		1110	135	181.	1976.8	3212.0	1		1930	235	177.	1853.4	3210.1
1		0255	36	97.	360.3	3176.6	1		1115	136	181.	1975.5	3212.0	1		1935	236	177.	1852.2	3210.1
1		0300	37	101.	394.4	3177.7	1		1120	137	181.	1974.3	3212.0	1		1940	237	177.	1851.0	3210.0
1		0305	38	105.	430.7	3178.9	1		1125	138	181.	1973.0	3212.0	1		1945	238	177.	1849.8	3210.0
1		0310	39	108.	469.9	3180.1	1		1130	139	181.	1971.8	3212.0	1		1950	239	177.	1848.5	3210.0
1		0315	40	112.	512.8	3181.5	1		1135	140	181.	1970.5	3211.9	1		1955	240	177.	1847.3	3210.0
1		0320	41	117.	560.6	3182.9	1		1140	141	181.	1969.3	3211.9	1		2000	241	177.	1846.1	3210.0
1		0325	42	121.	615.0	3184.4	1		1145	142	181.	1968.0	3211.9	1		2005	242	177.	1844.9	3210.0
1		0330	43	126.	678.0	3186.2	1		1150	143	181.	1966.8	3211.9	1		2010	243	177.	1843.7	3209.9
1		0335	44	131.	751.1	3188.2	1		1155	144	181.	1965.6	3211.9	1		2015	244	177.	1842.4	3209.9
1		0340	45	136.	832.6	3190.2	1		1200	145	181.	1964.3	3211.8	1		2020	245	177.	1841.2	3209.9
1		0345	46	141.	920.2	3192.4	1		1205	146	181.	1963.1	3211.8	1		2025	246	177.	1840.0	3209.9
1		0350	47	146.	1014.3	3194.5	1		1210	147	181.	1961.8	3211.8	1		2030	247	177.	1838.8	3209.9
1		0355	48	151.	1117.5	3196.8	1		1215	148	181.	1960.6	3211.8	1		2035	248	177.	1837.6	3209.8
1		0400	49	156.	1231.9	3199.1	1		1220	149	181.	1959.3	3211.8	1		2040	249	177.	1836.4	3209.8
1		0405	50	161.	1359.0	3201.7	1		1225	150	180.	1958.1	3211.7	1		2045	250	177.	1835.1	3209.8
1		0410	51	166.	1499.9	3204.2	1		1230	151	180.	1956.9	3211.7	1		2050	251	177.	1833.9	3209.8
1		0415	52	171.	1655.8	3206.9	1		1235	152	180.	1955.6	3211.7	1		2055	252	177.	1832.7	3209.8
1		0420	53	176.	1827.8	3209.7	1		1240	153	180.	1954.4	3211.7	1		2100	253	176.	1831.5	3209.7
1		0425	54	787.	2014.7	3212.6	1		1245	154	180.	1953.1	3211.7	1		2105	254	176.	1830.3	3209.7
1		0430	55	14810.	2169.0	3214.8	1		1250	155	180.	1951.9	3211.6	1		2110	255	176.	1829.1	3209.7
1		0435	56	24959.	2258.1	3216.0	1		1255	156	180.	1950.6	3211.6	1		2115	256	176.	1827.8	3209.7
1		0440	57	30790.	2309.2	3216.7	1		1300	157	180.	1949.4	3211.6	1		2120	257	176.	1826.6	3209.7
1		0445	58	35190.	2339.9	3217.1	1		1305	158	180.	1948.2	3211.6	1		2125	258	176.	1825.4	3209.6
1		0450	59	38497.	2355.2	3217.3	1		1310	159	180.	1946.9	3211.6	1		2130	259	176.	1824.2	3209.6
1		0455	60	39864.	2361.5	3217.4	1		1315	160	180.	1945.7	3211.6	1		2135	260	176.	1823.0	3209.6
1		0500	61	40340.	2363.7	3217.5	1		1320	161	180.	1944.4	3211.5	1		2140	261	176.	1821.8	3209.6
1		0505	62	40045.	2362.3	3217.4	1		1325	162	180.	1943.2	3211.5	1		2145	262	176.	1820.6	3209.6
1		0510	63	39103.	2358.0	3217.4	1		1330	163	180.	1942.0	3211.5	1		2150	263	176.	1819.3	3209.5
1		0515	64	37676.	2351.4	3217.3	1		1335	164	180.	1940.7	3211.5	1		2155	264	176.	1818.1	3209.5
1		0520	65	35914.	2343.2	3217.2	1		1340	165	180.	1939.5	3211.5	1		2200	265	176.	1816.9	3209.5
1		0525	66	33959.	2334.2	3217.0	1		1345	166	180.	1938.2	3211.4	1		2205	266	176.	1815.7	3209.5
1		0530	67	32393.	2323.3	3216.9	1		1350	167	180.	1937.0	3211.4	1		2210	267	176.	1814.5	3209.5
1		0535	68	30838.	2309.7	3216.7	1		1355	168	180.	1935.8	3211.4	1		2215	268	176.	1813.3	3209.4
1		0540	69	29127.	2294.6	3216.5	1		1400	169	180.	1934.5	3211.4	1		2220	269	176.	1812.1	3209.4
1		0545	70	27448.	2279.9	3216.3	1		1405	170	180.	1933.3	3211.4	1		2225	270	176.	1810.9	3209.4
1		0550	71	25891.	2266.3	3216.1	1		1410	171	180.	1932.1	3211.3	1		2230	271	176.	1809.7	3209.4
1		0555	72	24479.	2253.9	3215.9	1		1415	172	180.	1930.8	3211.3	1		2235	272	176.	1808.4	3209.4
1		0600	73	23185.	2242.5	3215.8	1		1420	173	180.	1929.6	3211.3	1		2240	273	176.	1807.2	3209.4
1		0605	74	21965.	2231.8	3215.6	1		1425	174	180.	1928.3	3211.3	1		2245	274	176.	1806.0	3209.3
1		0610	75	20769.	2221.3	3215.5	1		1430	175	180.	1927.1	3211.3	1		2250	275	176.	1804.8	3209.3
1		0615	76	19556.	2210.7	3215.3	1		1435	176	179.	1925.9	3211.2	1		2255	276	176.	1803.6	3209.3
1		0620	77	18299.	2199.6	3215.2	1		1440	177	179.	1924.6	3211.2	1		2300	277	176.	1802.4	3209.3
1		0625	78	16987.	2188.1	3215.0	1		1445	178	179.	1923.4	3211.2	1		2305	278	176.	1801.2	3209.3
1		0630	79	15629.	2176.2	3214.9	1		1450	179	179.	1922.2	3211.2	1		2310	279	175.	1800.0	3209.2
1		0635	80	14246.	2164.1	3214.7	1		1455	180	179.	1920.9	3211.2	1		2315	280	175.	1798.8	3209.2
1		0640	81	12865.	2152.0	3214.5	1		1500	181	179.	1919.7	3211.1	1		2320	281	175.	1797.6	3209.2
1		0645	82	11519.	2140.1	3214.3	1		1505	182	179.	1918.5	3211.1	1		2325	282	175.	1796.4	3209.2
1		0650	83	10238.	2128.9	3214.2	1		1510	183	179.	1917.2	3211.1	1		2330	283	175.	1795.1	3209.2
1		0655	84	9042.	2118.4	3214.0	1		1515	184	179.	1916.0	3211.1	1		2335	284	175.	1793.9	3209.1
1		0700	85	8120.	2108.2	3213.9	1		1520	185	179.	1914.8	3211.1	1		2340	285	175.	1792.7	3209.1
1		0705	86	7299.	2097.7	3213.8	1		1525	186	179.	1913.5	3211.0	1		2345	286	175.	1791.5	3209.1
1		0710	87	6484.	2087.3	3213.6	1		1530	187	179.	1912.3	3211.0	1		2350	287	175.	1790.3	3209.1
1		0715	88	5712.	2077.5	3213.5	1		1535	188	179.	1911.1	3211.0	1		2355	288	175.	1789.1	3209.1
1		0720	89	5000.	2068.4	3213.4	1		1540	189	179.	1909.8	3211.0	2		0000	289	175.	1787.9	3209.0
1		0725	90	4355.	2060.2	3213.2	1		1545	190	179.	1908.6	3211.0	2		0005	290	175.	1786.7	3209.0
1		0730	91	3775.	2052.8	3213.1	1		1550	191	179.	1907.4	3210.9	2		0010	291	175.	1785.5	3209.0
1		0735	92	3257.	2046.2	3213.0	1		1555	192	179.	1906.1	3210.9	2		0015	292	175.	1784.3	3209.0
1		0740	93	2797.	2040.3	3213.0	1		1600	193	179.	1904.9	3210.9	2		0020	293	175.	1783.1	3209.0
1		0745	94	2391.	2035.2	3212.9	1		1605	194	179.	1903.7	3210.9	2		0025	294	175.	1781.9	3209.0
1		0750	95	2033.	2030.6	3212.8	1		1610	195	179.	1902.4	3210.9	2		0030	295	175.	1780.7	3208.9
1		0755	96	1721.	2026.6	3212.8	1		1615	196	179.	1901.2	3210.8	2		0035	296	175.	1779.5	3208.9
1		0800	97	1450.	2023.2	3212.7	1		1620	197	179.	1900.0	3210.8	2		0040	297	175.	1778.3	3208.9
1		0805	98	1217.	2020.2	3212.7	1		1625	198	179.	1898.7	3210.8	2		0045	298	175.	1777.1	3208.9
1		0810	99	1017.	2017.6	3212.6	1		1630	199	179.	1897.5	3210.8	2		0050	299	175.	1775.9	3208.9
1		0815	100	847.	2015.5	3212.6	1		1635	200	179.	1896.3	3210.8	2		0055	300	175.	1774.7	3208.8

MAXIMUM AVERAGE FLOW

PEAK FLOW	TIME		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 40340.	5.00		11669.	3037.	2926.	2926.
		(INCHES)	1.982	2.064	2.064	2.064
		(AC-FT)	5786.	6024.	6025.	6025.

MAXIMUM AVERAGE STORAGE

PEAK STORAGE	TIME	6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
2364.	5.00	2120.	1736.	1672.	1672.

MAXIMUM AVERAGE STAGE

PEAK STAGE	TIME	6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
3217.46	5.00	3214.07	3206.61	3204.94	3204.94

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB

PLAN 1, RATIO = .85

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	3161.0	1		0820	101	697.	2013.6	3212.6	1		1640	201	178.	1895.0	3210.7
1		0005	2	0.	.0	3161.0	1		0825	102	578.	2012.0	3212.6	1		1645	202	178.	1893.8	3210.7
1		0010	3	0.	.0	3161.0	1		0830	103	478.	2010.8	3212.6	1		1650	203	178.	1892.5	3210.7
1		0015	4	0.	.0	3161.0	1		0835	104	394.	2009.7	3212.5	1		1655	204	178.	1891.3	3210.7
1		0020	5	0.	.1	3161.0	1		0840	105	325.	2008.8	3212.5	1		1700	205	178.	1890.1	3210.7
1		0025	6	0.	.3	3161.0	1		0845	106	268.	2008.1	3212.5	1		1705	206	178.	1888.9	3210.6
1		0030	7	1.	.9	3161.1	1		0850	107	221.	2007.5	3212.5	1		1710	207	178.	1887.6	3210.6
1		0035	8	2.	1.8	3161.2	1		0855	108	182.	2007.0	3212.5	1		1715	208	178.	1886.4	3210.6
1		0040	9	3.	3.1	3161.3	1		0900	109	182.	2006.5	3212.5	1		1720	209	178.	1885.2	3210.6
1		0045	10	5.	4.4	3161.5	1		0905	110	182.	2005.8	3212.5	1		1725	210	178.	1883.9	3210.6
1		0050	11	6.	5.8	3161.6	1		0910	111	182.	2005.0	3212.5	1		1730	211	178.	1882.7	3210.6
1		0055	12	8.	7.3	3161.8	1		0915	112	182.	2004.1	3212.5	1		1735	212	178.	1881.5	3210.5
1		0100	13	10.	9.0	3162.0	1		0920	113	182.	2003.2	3212.4	1		1740	213	178.	1880.3	3210.5
1		0105	14	11.	11.0	3162.1	1		0925	114	182.	2002.2	3212.4	1		1745	214	178.	1879.0	3210.5
1		0110	15	12.	13.6	3162.2	1		0930	115	182.	2001.1	3212.4	1		1750	215	178.	1877.8	3210.5
1		0115	16	14.	16.8	3162.4	1		0935	116	182.	2000.0	3212.4	1		1755	216	178.	1876.6	3210.5
1		0120	17	16.	20.9	3162.6	1		0940	117	182.	1998.9	3212.4	1		1800	217	178.	1875.4	3210.4
1		0125	18	18.	25.9	3162.9	1		0945	118	182.	1997.7	3212.4	1		1805	218	178.	1874.1	3210.4
1		0130	19	21.	32.1	3163.2	1		0950	119	182.	1996.5	3212.3	1		1810	219	178.	1872.9	3210.4
1		0135	20	25.	39.8	3163.6	1		0955	120	182.	1995.3	3212.3	1		1815	220	178.	1871.7	3210.4
1		0140	21	29.	48.9	3164.0	1		1000	121	182.	1994.1	3212.3	1		1820	221	178.	1870.5	3210.4
1		0145	22	34.	59.6	3164.6	1		1005	122	182.	1992.9	3212.3	1		1825	222	178.	1869.2	3210.3
1		0150	23	40.	71.8	3165.2	1		1010	123	182.	1991.6	3212.3	1		1830	223	178.	1868.0	3210.3
1		0155	24	47.	85.3	3165.9	1		1015	124	181.	1990.4	3212.2	1		1835	224	178.	1866.8	3210.3
1		0200	25	54.	100.0	3166.6	1		1020	125	181.	1989.2	3212.2	1		1840	225	178.	1865.6	3210.3
1		0205	26	59.	115.9	3167.4	1		1025	126	181.	1987.9	3212.2	1		1845	226	178.	1864.4	3210.3
1		0210	27	62.	133.1	3168.1	1		1030	127	181.	1986.7	3212.2	1		1850	227	177.	1863.1	3210.2
1		0215	28	65.	151.6	3168.8	1		1035	128	181.	1985.4	3212.2	1		1855	228	177.	1861.9	3210.2
1		0220	29	69.	171.3	3169.6	1		1040	129	181.	1984.2	3212.2	1		1900	229	177.	1860.7	3210.2
1		0225	30	73.	192.5	3170.4	1		1045	130	181.	1983.0	3212.1	1		1905	230	177.	1859.5	3210.2
1		0230	31	77.	215.0	3171.4	1		1050	131	181.	1981.7	3212.1	1		1910	231	177.	1858.2	3210.2
1		0235	32	81.	239.0	3172.3	1		1055	132	181.	1980.5	3212.1	1		1915	232	177.	1857.0	3210.1
1		0240	33	85.	264.5	3173.2	1		1100	133	181.	1979.2	3212.1	1		1920	233	177.	1855.8	3210.1
1		0245	34	88.	291.7	3174.2	1		1105	134	181.	1978.0	3212.1	1		1925	234	177.	1854.6	3210.1
1		0250	35	92.	321.0	3175.2	1		1110	135	181.	1976.7	3212.0	1		1930	235	177.	1853.4	3210.1
1		0255	36	96.	352.4	3176.3	1		1115	136	181.	1975.5	3212.0	1		1935	236	177.	1852.1	3210.1
1		0300	37	100.	385.8	3177.4	1		1120	137	181.	1974.2	3212.0	1		1940	237	177.	1850.9	3210.0
1		0305	38	104.	421.6	3178.6	1		1125	138	181.	1973.0	3212.0	1		1945	238	177.	1849.7	3210.0
1		0310	39	107.	460.2	3179.8	1		1130	139	181.	1971.7	3212.0	1		1950	239	177.	1848.5	3210.0
1		0315	40	111.	502.4	3181.2	1		1135	140	181.	1970.5	3211.9	1		1955	240	177.	1847.3	3210.0
1		0320	41	116.	549.5	3182.6	1		1140	141	181.	1969.2	3211.9	1		2000	241	177.	1846.0	3210.0
1		0325	42	120.	603.0	3184.1	1		1145	142	181.	1968.0	3211.9	1		2005	242	177.	1844.8	3209.9
1		0330	43	125.	665.2	3185.9	1		1150	143	181.	1966.8	3211.9	1		2010	243	177.	1843.6	3209.9
1		0335	44	130.	737.3	3187.8	1		1155	144	181.	1965.5	3211.9	1		2015	244	177.	1842.4	3209.9
1		0340	45	135.	817.7	3189.8	1		1200	145	181.	1964.3	3211.8	1		2020	245	177.	1841.2	3209.9
1		0345	46	140.	904.1	3192.0	1		1205	146	181.	1963.0	3211.8	1		2025	246	177.	1840.0	3209.9
1		0350	47	145.	997.1	3194.1	1		1210	147	181.	1961.8	3211.8	1		2030	247	177.	1838.7	3209.9
1		0355	48	150.	1099.0	3196.4	1		1215	148	181.	1960.5	3211.8	1		2035	248	177.	1837.5	3209.8
1		0400	49	155.	1211.9	3198.7	1		1220	149	181.	1959.3	3211.8	1		2040	249	177.	1836.3	3209.8
1		0405	50	160.	1337.5	3201.2	1		1225	150	180.	1958.0	3211.7	1		2045	250	177.	1835.1	3209.8
1		0410	51	165.	1476.7	3203.8	1		1230	151	180.	1956.8	3211.7	1		2050	251	177.	1833.9	3209.8
1		0415	52	170.	1630.8	3206.5	1		1235	152	180.	1955.6	3211.7	1		2055	252	177.	1832.7	3209.8
1		0420	53	175.	1800.7	3209.2	1		1240	153	180.	1954.3	3211.7	1		2100	253	176.	1831.4	3209.7
1		0425	54	181.	1987.6	3212.2	1		1245	154	180.	1953.1	3211.7	1		2105	254	176.	1830.2	3209.7
1		0430	55	12566.	2149.3	3214.5	1		1250	155	180.	1951.8	3211.6	1		2110	255	176.	1829.0	3209.7
1		0435	56	23773.	2247.7	3215.8	1		1255	156	180.	1950.6	3211.6	1		2115	256	176.	1827.8	3209.7
1		0440	57	30052.	2302.8	3216.6	1		1300	157	180.	1949.3	3211.6	1		2120	257	176.	1826.6	3209.7
1		0445	58	34352.	2336.0	3217.1	1		1305	158	180.	1948.1	3211.6	1		2125	258	176.	1825.4	3209.6
1		0450	59	38013.	2352.9	3217.3	1		1310	159	180.	1946.9	3211.6	1		2130	259	176.	1824.2	3209.6
1		0455	60	39425.	2359.5	3217.4	1		1315	160	180.	1945.6	3211.5	1		2135	260	176.	1822.9	3209.6
1		0500	61	39909.	2361.7	3217.4	1		1320	161	180.	1944.4	3211.5	1		2140	261	176.	1821.7	3209.6
1		0505	62	39620.	2360.4	3217.4	1		1325	162	180.	1943.1	3211.5	1		2145	262	176.	1820.5	3209.6
1		0510	63	38691.	2356.1	3217.3	1		1330	163	180.	1941.9	3211.5	1		2150	263	176.	1819.3	3209.5
1		0515	64	37283.	2349.6	3217.3	1		1335	164	180.	1940.7	3211.5	1		2155	264	176.	1818.1	3209.5
1		0520	65	35542.	2341.5	3217.1	1		1340	165	180.	1939.4	3211.5	1		2200	265	176.	1816.9	3209.5
1		0525	66	33609.	2332.6	3217.0	1		1345	166	180.	1938.2	3211.4	1		2205	266	176.	1815.7	3209.5
1		0530	67	32178.	2321.4	3216.9	1		1350	167	180.	1937.0	3211.4	1		2210	267	176.	1814.4	3209.5
1		0535	68	30574.	2307.3	3216.7	1		1355	168	180.	1935.7	3211.4	1		2215	268	176.	1813.2	3209.4
1		0540	69	28854.	2292.2	3216.5	1		1400	169	180.	1934.5	3211.4	1		2220	269	176.	1812.0	3209.4
1		0545	70	27182.	2277.6	3216.3	1		1405	170	180.	1933.2	3211.4	1		2225	270	176.	1810.8	3209.4
1		0550	71	25637.	2264.0	3216.1	1		1410	171	180.	1932.0	3211.3	1		2230	271	176.	1809.6	3209.4
1		0555	72	24237.	2251.7	3215.9	1		1415	172	180.	1930.8	3211.3	1		2235	272	176.	1808.4	3209.4
1		0600	73	22957.	2240.5	3215.7	1		1420	173	180.	1929.5	3211.3	1		2240	273	176.	1807.2	3209.4
1		0605	74	21750.	2229.9	3215.6	1		1425	174	180.	1928.3	3211.3	1		2245	274	176.	1806.0	3209.3
1		0610	75	20566.	2219.5	3215.5	1		1430	175	180.	1927.1	3211.3	1		2250	275	176.	1804.8	3209.3
1		0615	76	19366.	2209.0	3215.3	1		1435	176	179.	1925.8	3211.2	1		2255	276	176.	1803.6	3209.3
1		0620	77	18122.	2198.1	3215.2	1		1440	177	179.	1924.6	3211.2	1		2300	277	176.	1802.3	3209.3
1		0625	78	16823.	2186.7	3215.0	1		1445	178	179.	1923.3	3211.2	1		2305	278	176.	1801.1	3209.3
1		0630	79	15479.	2174.9	3214.8	1		1450	179	179.	1922.1	3211.2	1		2310	279	175.	1799.9	3209.2
1		0635	80	14109.	2162.9	3214.7	1		1455	180	179.	1920.9	3211.2	1		2315	280	175.	1798.7	3209.2
1		0640	81	12742.	2150.9	3214.5	1		1500	181	179.	1919.6	3211.1	1		2320	281	175.	1797.5	3209.2
1		0645	82	11409.	2139.2	3214.3	1		1505	182	179.	1918.4	3211.1	1		2325	282	175.	1796.3	3209.2
1		0650	83	10140.	2128.0	3214.2	1		1510	183	179.	1917.2	3211.1	1		2330	283	175.	1795.1	3209.2
1		0655	84	8956.	2117.7	3214.0	1		1515	184	179.	1915.9	3211.1	1		2335	284	175.	1793.9	3209.1
1		0700	85	8063.	2107.5	3213.9	1		1520	185	179.	1914.7	3211.1	1		2340	285	175.	1792.7	3209.1
1		0705	86	7241.	2097.0	3213.7	1		1525	186	179.	1913.5	3211.0	1		2345	286	175.	1791.5	3209.1
1		0710	87	6429.	2086.6	3213.6	1		1530	187	179.	1912.2	3211.0	1		2350	287	175.	1790.3	3209.1
1		0715	88	5662.	2076.9	3213.5	1		1535	188	179.	1911.0	3211.0	1		2355	288	175.	1789.1	3209.1
1		0720	89	4955.	2067.9	3213.3	1		1540	189	179.	1909.8	3211.0	2		0000	289	175.	1787.9	3209.0
1		0725	90	4315.	2059.7	3213.2	1		1545	190	179.	1908.5	3211.0	2		0005	290	175.	1786.6	3209.0
1		0730	91	3740.	2052.4	3213.1	1		1550	191	179.	1907.3	3210.9	2		0010	291	175.	1785.4	3209.0
1		0735	92	3227.	2045.8	3213.0	1		1555	192	179.	1906.1	3210.9	2		0015	292	175.	1784.2	3209.0
1		0740	93	2771.	2040.0	3213.0	1		1600	193	179.	1904.8	3210.9	2		0020	293	175.	1783.0	3209.0
1		0745	94	2368.	2034.9	3212.9	1		1605	194	179.	1903.6	3210.9	2		0025	294	175.	1781.8	3208.9
1		0750	95	2014.	2030.4	3212.8	1		1610	195	179.	1902.4	3210.9	2		0030	295	175.	1780.6	3208.9
1		0755	96	1705.	2026.4	3212.8	1		1615	196	179.	1901.1	3210.8	2		0035	296	175.	1779.4	3208.9
1		0800	97	1437.	2023.0	3212.7	1		1620	197	179.	1899.9	3210.8	2		0040	297	175.	1778.2	3208.9
1		0805	98	1205.	2020.0	3212.7	1		1625	198	179.	1898.7	3210.8	2		0045	298	175.	1777.0	3208.9
1		0810	99	1008.	2017.5	3212.6	1		1630	199	179.	1897.5	3210.8	2		0050	299	175.	1775.8	3208.9
1		0815	100	839.	2015.4	3212.6	1		1635	200	179.	1896.2	3210.8	2		0055	300	175.	1774.6	3208.8

PEAK FLOW AND TIME — MAXIMUM AVERAGE FLOW

	PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.92-HR
	(CFS)	(HR)				
+	39909.	5.00	11490.	2993.	2883.	2883.
		(CFS)				
		(INCHES)	1.952	2.033	2.034	2.034
		(AC-FT)	5698.	5936.	5936.	5936.

PEAK STORAGE AND TIME — MAXIMUM AVERAGE STORAGE

	PEAK STORAGE	TIME	6-HR	24-HR	72-HR	24.92-HR
	(AC-FT)	(HR)				
+	2362.	5.00	2119.	1734.	1670.	1670.

PEAK STAGE AND TIME — MAXIMUM AVERAGE STAGE

	PEAK STAGE	TIME	6-HR	24-HR	72-HR	24.92-HR
	(FEET)	(HR)				
+	3217.43	5.00	3214.05	3206.57	3204.90	3204.90

CUMULATIVE AREA = 54.73 SQ MI

1

PEAK FLOW AND STAGE (END-OF-PERIOD) SUMMARY FOR MULTIPLE PLAN-RATIO ECONOMIC COMPUTATIONS
FLOWS IN CUBIC FEET PER SECOND, AREA IN SQUARE MILES
TIME TO PEAK IN HOURS

	OPERATION	STATION	AREA	PLAN	RATIOS APPLIED TO PRECIPITATION RATIO 1	RATIO 2	RATIO 3	RATIO 4					
					.88	.87	.86	.85					
	HYDROGRAPH AT												
+				RR1	4.22	1	FLOW	5698.	5613.	5545.	5486.		
							TIME	3.83	3.83	3.83	3.83		
	HYDROGRAPH AT												
+				RR2	3.55	1	FLOW	4377.	4313.	4261.	4215.		
							TIME	3.92	3.92	3.92	3.92		
	ROUTED TO												
+				RRR2	3.55	1	FLOW	4374.	4310.	4256.	4209.		
							TIME	4.00	4.00	4.00	4.00		
	2 COMBINED AT												
+				CRR2	7.77	1	FLOW	9927.	9780.	9662.	9561.		
							TIME	3.92	3.92	3.92	3.92		
	ROUTED TO												
+				RCRR2	7.77	1	FLOW	9353.	9214.	9102.	9006.		
							TIME	4.17	4.17	4.17	4.17		
	HYDROGRAPH AT												
+				RR5	7.13	1	FLOW	7930.	7815.	7724.	7643.		
							TIME	4.00	4.00	4.00	4.00		
	ROUTED TO												
+				R-RR5	7.13	1	FLOW	7654.	7544.	7456.	7379.		
							TIME	4.25	4.25	4.25	4.25		
	HYDROGRAPH AT												
+				RR3	14.98	1	FLOW	13999.	13791.	13625.	13479.		
							TIME	4.17	4.17	4.17	4.17		
	3 COMBINED AT												
+				CRR3	29.89	1	FLOW	30932.	30474.	30108.	29788.		
							TIME	4.17	4.17	4.17	4.17		
	ROUTED TO												
+				RCRR3	29.89	1	FLOW	29251.	28820.	28474.	28173.		
							TIME	4.67	4.67	4.67	4.67		
	HYDROGRAPH AT												
+				RR10	8.77	1	FLOW	6398.	6298.	6218.	6148.		
							TIME	4.33	4.33	4.33	4.33		
	2 COMBINED AT												
+				CRR10	38.66	1	FLOW	34784.	34268.	33855.	33495.		
							TIME	4.67	4.67	4.67	4.67		

```
 ROUTED TO
+                RCRR10     38.66     1   FLOW        33507.   33008.   32610.   32261.
                                          TIME         5.00     5.00     5.00     5.00

 HYDROGRAPH AT
+                 RR12A      5.82     1   FLOW         5183.    5106.    5044.    4990.
                                          TIME         4.17     4.17     4.17     4.17

 ROUTED TO
+               R-RR12A      5.82     1   FLOW         5016.    4941.    4881.    4829.
                                          TIME         4.42     4.42     4.42     4.42

 HYDROGRAPH AT
+                  104A      3.39     1   FLOW         2163.    2124.    2093.    2066.
                                          TIME         4.25     4.25     4.25     4.25

  3 COMBINED AT
+                 C104A     47.87     1   FLOW        38238.   37669.   37214.   36816.
                                          TIME         5.00     5.00     5.00     5.00

 HYDROGRAPH AT
+                   RD1       .43     1   FLOW          699.     688.     679.     672.
                                          TIME         3.58     3.58     3.58     3.58

 ROUTED TO
+                 R-RD1       .43     1   FLOW          682.     665.     661.     657.
                                          TIME         3.67     3.67     3.67     3.67

 HYDROGRAPH AT
+                   RD2       .47     1   FLOW          890.     878.     869.     860.
                                          TIME         3.58     3.58     3.58     3.58

  2 COMBINED AT
+                  CRD2       .90     1   FLOW         1542.    1516.    1499.    1487.
                                          TIME         3.58     3.58     3.58     3.58

 ROUTED TO
+                 RCRD2       .90     1   FLOW         1473.    1443.    1433.    1417.
                                          TIME         3.67     3.67     3.67     3.67

 HYDROGRAPH AT
+                   RD3       .33     1   FLOW          596.     587.     581.     575.
                                          TIME         3.58     3.58     3.58     3.58

  2 COMBINED AT
+                  CRD3      1.23     1   FLOW         2053.    2028.    1998.    1981.
                                          TIME         3.58     3.58     3.58     3.58

 HYDROGRAPH AT
+                 RR14A      4.60     1   FLOW         3932.    3872.    3825.    3783.
                                          TIME         4.17     4.17     4.17     4.17

 ROUTED TO
+               R-RR14A      4.60     1   FLOW         3922.    3863.    3814.    3774.
                                          TIME         4.17     4.17     4.17     4.17

 HYDROGRAPH AT
+                   RD4       .40     1   FLOW          649.     639.     631.     623.
                                          TIME         3.58     3.58     3.58     3.58

  2 COMBINED AT
+                  CRD4      5.00     1   FLOW         4055.    3994.    3943.    3901.
                                          TIME         4.17     4.17     4.17     4.17

 ROUTED TO
+                 RCRD4      5.00     1   FLOW         4050.    3988.    3937.    3896.
                                          TIME         4.17     4.17     4.17     4.17

 HYDROGRAPH AT
+                   RD5       .37     1   FLOW          618.     608.     601.     594.
                                          TIME         3.58     3.58     3.58     3.58

  2 COMBINED AT
+                  CRD5      5.37     1   FLOW         4162.    4099.    4046.    4005.
                                          TIME         4.17     4.17     4.17     4.17

 ROUTED TO
+                 RCRD5      5.37     1   FLOW         4157.    4094.    4042.    4000.
                                          TIME         4.17     4.17     4.17     4.17

 HYDROGRAPH AT
+                   RD6       .25     1   FLOW          455.     448.     443.     439.
                                          TIME         3.58     3.58     3.58     3.58

  2 COMBINED AT
+                  CRD6      5.62     1   FLOW         4236.    4172.    4119.    4076.
                                          TIME         4.17     4.17     4.17     4.17

  3 COMBINED AT
+                  INRR     54.73     1   FLOW        41571.   40952.   40456.   40024.
                                          TIME         4.92     4.92     4.92     4.92

 ROUTED TO
+                  RRDB     54.73     1   FLOW        41452.   40834.   40340.   39909.
                                          TIME         5.00     5.00     5.00     5.00

                                        ** PEAK STAGES IN FEET **
                                          1  STAGE     3217.53  3217.49  3217.46  3217.43
                                          TIME         5.00     5.00     5.00     5.00

 DIVERSION TO
+               *D-RROUT     54.73     1   FLOW        41270.   40652.   40158.   39727.
                                          TIME         5.00     5.00     5.00     5.00

 HYDROGRAPH AT
+                *DOUTRR     54.73     1   FLOW          182.     182.     182.     182.
                                          TIME         5.67     4.58     5.50     4.50

 ROUTED TO
+                 ROUTRR     54.73     1   FLOW          182.     182.     182.     182.
                                          TIME         4.58     4.58     4.58     4.58

 HYDROGRAPH AT
+                    R3A       .19     1   FLOW          295.     290.     286.     283.
                                          TIME         3.50     3.50     3.50     3.50

  2 COMBINED AT
+                  CR3A     54.92     1   FLOW          419.     413.     408.     404.
                                          TIME         3.50     3.50     3.50     3.50

 ROUTED TO
+                 RCR3A     54.92     1   FLOW          412.     406.     401.     397.
                                          TIME         3.58     3.58     3.58     3.58
1


 *** NORMAL END OF HEC-1 ***
```

B.3.21 500-year_FLAM5A

```
1****************************************
 *                                      *
 *   FLOOD HYDROGRAPH PACKAGE  (HEC-1)  *
 *              JUN   1998              *
 *           VERSION 4.1                *
 *                                      *
 *  RUN DATE   20MAY20  TIME  10:09:53  *
 *                                      *
 ****************************************
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```
****************************************
*                                      *
*    U.S. ARMY CORPS OF ENGINEERS      *
*    HYDROLOGIC ENGINEERING CENTER     *
*          609 SECOND STREET           *
*       DAVIS, CALIFORNIA 95616        *
*            (916) 756-1104            *
*                                      *
****************************************
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X     X  XXXXXXX   XXXXX           X
X     X  X        X     X         XX
X     X  X        X               X
XXXXXXX  XXXX     X        XXXXX  X
X     X  X        X               X
X     X  X        X     X         X
X     X  XXXXXXX   XXXXX          XXX
```

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL   LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM


```
          LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

                    *DIAGRAM
 *** FREE ***
               1    ID   RED ROCK TRAIL TO FY19-87
               2    ID   US FEDERAL HIGHWAY ADMINISTRATION
               3    ID   PN WXXY4000
               4    ID
               5    ID   HEC-1 MODEL TAKEN FROM CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT (CCRFCD)
               6    ID   2018 MASTER PLAN UPDATE
               7    ID   FLAMINGO / TROPICANA WASHES WATERSHED
               8    ID   RECOMMENDED DRAINAGE SYSTEM WITH ULTIMATE DEVELOPMENT
               9    ID   INPUT FILE = FLAM3A.DAT
              10    ID   INPUT FILE DATE = MAY 2020
              11    ID
              12    ID   PRECIPITATION VALUES CREATED FROM LOGRITHMIC TRENDLINE FOR 2-YEAR THROUGH
              13    ID   100-YEAR ISOPLUVIALS MAPS FROM NOAA ATLAS 2 THAT HAVE BEEN ADJUSTED PER
              14    ID   CCRFCD HYDRAULIC CRITERIA & DRAINAGE DESIGN MANUAL TABLE 501
              15    ID
              16    ID   DESIGN STORM = 500-YEAR, 6-HOUR STORM
              17    ID   STORM DISTRIBUTION = SDN5
              18    ID   STORM CENTERING = SERIES A: REGIONAL DETENTION BASIN FLOWS NOT DIVERTED OUT
              19    ID   MODELED BY JACOBS (DAVE BERGH, PE)
              20    ID
              21    ID   JR CARDS CONTAIN DARFS BASED ON THE FOLLOWING VALUES:
              22    ID
              23    ID         AREA    DARF
              24    ID         SQ.MI.
              25    ID                 SDN 3   SDN 4   SDN 5
              26    ID         0 - 0.5 0.990
              27    ID         0.5 - 1 0.975
              28    ID         1 - 2   0.950
              29    ID         2 - 3   0.925
              30    ID         3 - 4   0.915
              31    ID         4 - 5   0.908
              32    ID         5 - 6   0.903
              33    ID         6 - 7   0.895
              34    ID         7 - 8   0.885
              35    ID         8 - 9           0.875
              36    ID         9 - 10          0.865
              37    ID         10 - 11         0.857
              38    ID         11 - 12         0.850
              39    ID         12 - 16                 0.832
              40    ID         16 - 20                 0.804
              41    ID         20 - 30                 0.765
              42    ID         30 - 40                 0.725
              43    ID         40 - 50                 0.695
              44    ID         50 - 100                0.640
              45    ID         100 - 150               0.580
              46    ID         150 - 200               0.530
              47    ID
              48    IT      5       0       0     300
              49    IO      5       0       0
              50    IN      5       0       0
              51    JR    PREC   0.832   0.804   0.765   0.725   0.695    0.64    0.58    0.53
                    *
```



```
          LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

              52    KK     RR1
              53    BA   4.225
              54    PB    5.25
              55    PC       0    0.02   0.059    0.08    0.11   0.144    0.15    0.16   0.168   0.171
              56    PC    0.18   0.182   0.187    0.19   0.197   0.202    0.21    0.22    0.23   0.241
              57    PC    0.25   0.259   0.265    0.28    0.29     0.3   0.305   0.309    0.31   0.317
              58    PC   0.321   0.327   0.333   0.346   0.361   0.381   0.408    0.43   0.477   0.514
              59    PC   0.561    0.63    0.71    0.72   0.731   0.752   0.779    0.79   0.795   0.804
              60    PC    0.81    0.82   0.826    0.84   0.859   0.889    0.91   0.938   0.966    0.97
              61    PC   0.974   0.979   0.981   0.983   0.985   0.989    0.99   0.992   0.993   0.996
              62    PC   0.997   0.999       1
              63    LS       0    85.8
              64    UD   0.443
                    *
              65    KK     RR2
              66    BA   3.547
              67    PB    5.31
              68    LS       0    86.2
              69    UD   0.545
                    *
              70    KK    RRR2
              71    KM   MUSKINGUM ROUTING UNSTABLE - USED MUSKINGUM-CUNGE
              72    KM   NATURAL WASH
              73    RD    1700   0.076    0.04       0    TRAP     100       2
                    *
              74    KK    CRR2
              75    KM   COMBINE RR1 AND RRR2
              76    HC       2
                    *
              77    KK   RCRR2
              78    KM   ROUTE CRR2 TO CRR3
              79    KM   NATURAL WASH
              80    KM   TRAVEL LENGTH = 15850
              81    KM   SLOPE = 0.043
              82    KM   N = 0.04
              83    KM   HYDRAULIC RADIUS = 1.5
              84    KM   VELOCITY = 16.2
              85    RM       3   0.272    0.15
                    *
              86    KK     RR5
              87    BA   7.132
              88    PB    4.98
              89    LS       0    87.9
              90    UD   0.615
                    *
```



```
          LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

              91    KK   R-RR5
              92    KM   ROUTE RR5 THROUGH RR3 TO CRR3
              93    KM   NATURAL WASH
              94    KM   TRAVEL LENGTH = 10700
              95    KM   SLOPE = 0.037
              96    KM   N = 0.04
              97    KM   HYDRAULIC RADIUS = 1.5
              98    KM   VELOCITY = 15
              99    RM       2   0.198    0.15
                    *
             100    KK     RR3
             101    BA  14.983
             102    PB    4.88
             103    LS       0      87
             104    UD   0.761
                    *
             105    KK    CRR3
             106    KM   COMBINE RCRR2, R-RR5, AND RR3
             107    HC       3
                    *
             108    KK   RCRR3
             109    KM   ROUTE CRR3 THROUGH RR10 TO CRR10
             110    KM   NATURAL WASH
             111    KM   TRAVEL LENGTH = 20700
             112    KM   SLOPE = 0.025
             113    KM   N = 0.04
             114    KM   HYDRAULIC RADIUS = 1.5
             115    KM   VELOCITY = 12.3
             116    RM       6   0.466    0.15
                    *
             117    KK    RR10
             118    BA   8.775
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 119          PB    4.43
 120          LS       0    86.1
 121          UD   0.882
              *

 122          KK   CRR10
 123          KM   COMBINE RCRR3 AND RR10
 124          HC       2
              *

 125          KK  RCRR10
 126          KM   ROUTE CRR10 THROUGH 104A TO C104A (RED ROCK DETENTION BASIN)
 127          KM   NATURAL WASH
 128          KM   TRAVEL LENGTH = 14500
 129          KM   SLOPE = 0.021
 130          KM   N = 0.04
 131          KM   HYDRAULIC RADIUS = 1.5
 132          KM   VELOCITY = 11.3
1                                   HEC-1 INPUT                                    PAGE  4

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 133          RM       4   0.356    0.15
              *

 134          KK   RR12A
 135          BA   5.821
 136          PB    4.55
 137          LS       0    87.6
 138          UD   0.728
              *

 139          KK R-RR12A
 140          KM   ROUTE RR12A THROUGH 104A TO C104A (RED ROCK DETENTION BASIN)
 141          KM   NATURAL WASH
 142          KM   TRAVEL LENGTH = 12000
 143          KM   SLOPE = 0.026
 144          KM   N = 0.04
 145          KM   HYDRAULIC RADIUS = 1.5
 146          KM   VELOCITY = 12.6
 147          RM       3   0.265    0.15
              *

 148          KK    104A
 149          BA   3.391
 150          PB    4.33
 151          LS       0    81.3
 152          UD   0.801
              *

 153          KK   C104A
 154          KM   COMBINE RCRR10, R-RR12A, AND 104A
 155          HC       3
              *

 156          KK     RD1
 157          BA   0.431
 158          PB    4.50
 159          LS       0    86.6
 160          UD   0.195
              *

 161          KK   R-RD1
 162          KM   ROUTE RD1 THROUGH RD2 TO CRD2
 163          KM   FUTURE CONCRETE CHANNEL
 164          RD    5100   0.061   0.015       0    TRAP      12       2
              *

 165          KK     RD2
 166          BA   0.473
 167          PB    4.40
 168          LS       0    91.2
 169          UD   0.167
              *
1                                   HEC-1 INPUT                                    PAGE  5

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 170          KK    CRD2
 171          KM   COMBINE R-RD1 AND RD2
 172          HC       2
              *

 173          KK   RCRD2
 174          KM   ROUTE CRD2 TO CRD3 (RED ROCK DETENTION BASIN)
 175          KM   FUTURE CONCRETE CHANNEL
 176          RD    4600    0.05   0.015       0    TRAP      12       2
              *

 177          KK     RD3
 178          BA    0.33
 179          PB    4.33
 180          LS       0    90.3
 181          UD   0.168
              *

 182          KK    CRD3
 183          KM   COMBINE RCRD2 AND RD3
 184          HC       2
              *

 185          KK   RR14A
 186          BA   4.602
 187          PB    4.43
 188          LS       0    87.3
 189          UD   0.725
              *

 190          KK R-RR14A
 191          KM   ROUTE RR14A THROUGH RD4 TO CRD4
 192          KM   FUTURE CONCRETE CHANNEL
 193          RD    5500   0.071   0.015       0    TRAP      12       2
              *

 194          KK     RD4
 195          BA   0.402
 196          PB    4.49
 197          LS       0    85.1
 198          UD   0.177
              *

 199          KK    CRD4
 200          KM   COMBINE R-RR14A AND RD4
 201          HC       2
              *

 202          KK   RCRD4
 203          KM   ROUTE CRD4 THROUGH RD5 TO CRD5
 204          KM   FUTURE CONCRETE CHANNEL
 205          RD    4550   0.067   0.015       0    TRAP      20       2
              *
1                                   HEC-1 INPUT                                    PAGE  6

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 206          KK     RD5
 207          BA    0.37
 208          PB    4.40
 209          LS       0    86.2
 210          UD   0.163
              *

 211          KK    CRD5
 212          KM   COMBINE RCRD4 AND RD5
 213          HC       2
              *

 214          KK   RCRD5
 215          KM   ROUTE CRD5 THROUGH RD6 TO CRD6 (RED ROCK DETENTION BASIN)
 216          KM   FUTURE CONCRETE CHANNEL
 217          RD    5600   0.047   0.015       0    TRAP      20       2
              *

 218          KK     RD6
 219          BA    0.25
 220          PB    4.34
 221          LS       0      90
 222          UD    0.16
              *

 223          KK    CRD6
 224          KM   COMBINE RCRD5 AND RD6
 225          HC       2
              *

 226          KK    INRR
 227          KM   COMBINE C104A, CRD3, AND CRD6 - TOTAL INFLOW TO RED ROCK DETENTION BASIN
 228          KO       1
 229          HC       3
              * ============================================================

 230          KK    RRDB
 231          KM   RED ROCK DETENTION BASIN
 232          KM   TAKEN FROM THE CORP MODELS FOR RED ROCK DETENTION BASIN
 233          KM   100YR COMPUTED PROBABILITY DETENTION DESIGN
 234          KM   FACILITY ID-MILE = RRWA 0716
 235          KM   STORAGE VOLUME = 2007 ACRE-FEET
 236          KM   OUTLET = 27"H x 27"W RCB ORIFICE
 237          KM   100-YR DISCHARGE = 182 CFS
 238          KM   SPILLWAY LENGTH = 600 FT
 239          KM   AUXILLARY OGEE SPILLWAY LENGTH = 323 FT
 240          KM   SPILLWAY CREST ELEVATION = 3212.5 FT NGVD
 241          KM   PMF DISCHARGE = 110000 CFS
 242          KM   TOP OF DAM ELEVATION = 3225 FT NGVD
 243          KO       1
 244          RS       1    STOR      -1
```

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 245          SV       0       9     107     231     372     529     705     903    1125    1376
 246          SV    1659    1974    2007    2115    2331    2690    2933
 247          SQ       0      10      57      80      99     114     128     140     151     162
1                                          HEC-1 INPUT                                                  PAGE  7

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 248          SQ     171     181     182    8654   33270  110918  163477
 249          SE    3161    3162    3167    3172    3177    3182    3187    3192    3197    3202
 250          SE    3207    3212  3212.5    3214    3217    3222    3225
              * ============================================================

 251          KK *DOUTRR
 252          KM   DIVERT SPILLWAY OVERFLOW IN EXCESS OF CORPS DESIGN OUTFLOW
 253          DT*D-RROUT
 254          DI       0     182    3000    5000   10000
 255          DQ       0       0    2818    4818    9818
              *

 256          KK  ROUTRR
 257          KM   ROUTE OUTFLOW FROM RED ROCK DETENTION BASIN THROUGH R3A TO CR3A
 258          KM   FACILITY = RED ROCK CHANNEL
 259          KM   FACILITY # = RRWA 0714, 0709, 0701
 260          KM   LINING = RCP
 261          KM   LINING = RIPRAP CHNL 10'W X 6'D; 2:1SS
 262          RD    1500   0.008    0.04       0    TRAP      10       2
              *

 263          KK     R3A
 264          BA   0.186
 265          PB    4.21
 266          LS       0    84.3
 267          UD    0.11
              *

 268          KK    CR3A
 269          KM   COMBINE OUTFLOW FROM RED ROCK DETENTION BASIN WITH R3A
 270          HC       2
              *

 271          KK   RCR3A
 272          KM   ROUTE CR3A THROUGH UFR1 TO CUFR1
 273          KM   FACILITY = RED ROCK CHANNEL
 274          KM   FACILITY # = RRWA 0695, 0692, 0608, 0607
 275          KM   LINING = RCP
 276          RD    5045  0.0055   0.013       0    CIRC       8       0
              *

 277          ZZ
1
             SCHEMATIC DIAGRAM OF STREAM NETWORK
 INPUT
  LINE      (V) ROUTING          (--->) DIVERSION OR PUMP FLOW

   NO.      (.) CONNECTOR        (<---) RETURN OF DIVERTED OR PUMPED FLOW

    52        RR1
                .
                .
    65          .        RR2
                .          V
                .          V
    70          .       RRR2
                .          .
                .          .
    74       CRR2............
                V
                V
    77      RCRR2
                .
                .
    86          .        RR5
                .          V
                .          V
    91          .      R-RR5
                .          .
                .          .
   100          .          .        RR3
                .          .          .
                .          .          .
   105       CRR3........................
                V
                V
   108      RCRR3
                .
                .
   117          .       RR10
                .          .
                .          .
   122      CRR10............
                V
                V
   125     RCRR10
                .
                .
   134          .      RR12A
                .          V
                .          V
   139          .    R-RR12A
                .          .
                .          .
   148          .          .       104A
                .          .          .
                .          .          .
   153      C104A........................
                .
                .
   156          .        RD1
                .          V
                .          V
   161          .      R-RD1
                .          .
                .          .
   165          .          .        RD2
                .          .          .
                .          .          .
   170          .       CRD2............
                .          V
                .          V
   173          .      RCRD2
                .          .
                .          .
   177          .          .        RD3
                .          .          .
                .          .          .
   182          .       CRD3............
                .          .
                .          .
   185          .          .      RR14A
                .          .          V
                .          .          V
   190          .          .    R-RR14A
                .          .          .
                .          .          .
   194          .          .          .        RD4
                .          .          .          .
                .          .          .          .
   199          .          .       CRD4............
                .          .          V
                .          .          V
   202          .          .      RCRD4
                .          .          .
                .          .          .
   206          .          .          .        RD5
                .          .          .          .
                .          .          .          .
   211          .          .       CRD5............
                .          .          V
                .          .          V
   214          .          .      RCRD5
                .          .          .
                .          .          .
   218          .          .          .        RD6
                .          .          .          .
                .          .          .          .
   223          .          .       CRD6............
                .          .          .
                .          .          .
   226       INRR........................
                V
                V
   230       RRDB
                .
                .
   253          .------->*D-RROUT
   251     *DOUTRR
                V
                V
   256      ROUTRR
                .
                .
   263          .        R3A
                .          .
                .          .
   268       CR3A............
                V
                V
   271      RCR3A

 (***) RUNOFF ALSO COMPUTED AT THIS LOCATION
1*****************************************
 *                                       *
 *   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
 *              JUN   1998               *
 *            VERSION 4.1                *
 *                                       *
 *  RUN DATE   20MAY20  TIME  10:09:53   *
 *                                       *
 *****************************************
```

```
*************************************
*                                   *
*   U.S. ARMY CORPS OF ENGINEERS    *
*   HYDROLOGIC ENGINEERING CENTER   *
*         609 SECOND STREET         *
*      DAVIS, CALIFORNIA 95616      *
*          (916) 756-1104           *
*                                   *
*************************************
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RED ROCK TRAIL TO FY19-87
US FEDERAL HIGHWAY ADMINISTRATION
PN WXXY4000

HEC-1 MODEL TAKEN FROM CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT (CCRFCD)
2018 MASTER PLAN UPDATE
FLAMINGO / TROPICANA WASHES WATERSHED
RECOMMENDED DRAINAGE SYSTEM WITH ULTIMATE DEVELOPMENT
INPUT FILE = FLAM3A.DAT
INPUT FILE DATE = MAY 2020

PRECIPITATION VALUES CREATED FROM LOGRITHMIC TRENDLINE FOR 2-YEAR THROUGH
100-YEAR ISOPLUVIALS MAPS FROM NOAA ATLAS 2 THAT HAVE BEEN ADJUSTED PER
CCRFCD HYDRAULIC CRITERIA & DRAINAGE DESIGN MANUAL TABLE 501

DESIGN STORM = 500-YEAR, 6-HOUR STORM
STORM DISTRIBUTION = SDN5
STORM CENTERING = SERIES A: REGIONAL DETENTION BASIN FLOWS NOT DIVERTED OUT
MODELED BY JACOBS (DAVE BERGH, PE)

JR CARDS CONTAIN DARFS BASED ON THE FOLLOWING VALUES:

      AREA    DARF
      SQ.MI.
              SDN 3   SDN 4   SDN 5
      0 - 0.5 0.990
      0.5 - 1 0.975
      1 - 2   0.950
      2 - 3   0.925
      3 - 4   0.915
      4 - 5   0.908
      5 - 6   0.903
      6 - 7   0.895
      7 - 8   0.885
      8 - 9           0.875
      9 - 10          0.865
      10 - 11         0.857
      11 - 12         0.850
      12 - 16                 0.832
      16 - 20                 0.804
      20 - 30                 0.765
      30 - 40                 0.725
      40 - 50                 0.695
      50 - 100                0.640
      100 - 150               0.580
      150 - 200               0.530

 49 IO          OUTPUT CONTROL VARIABLES
                     IPRNT          5  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL          0.  HYDROGRAPH PLOT SCALE

    IT          HYDROGRAPH TIME DATA
                      NMIN          5  MINUTES IN COMPUTATION INTERVAL
                     IDATE      1    0  STARTING DATE
                     ITIME         0000  STARTING TIME
                        NQ          300  NUMBER OF HYDROGRAPH ORDINATES
                    NDDATE      2    0  ENDING DATE
                    NDTIME         0055  ENDING TIME
                     ICENT           19  CENTURY MARK

                  COMPUTATION INTERVAL     .08 HOURS
                      TOTAL TIME BASE   24.92 HOURS

          ENGLISH UNITS
               DRAINAGE AREA         SQUARE MILES
               PRECIPITATION DEPTH   INCHES
               LENGTH, ELEVATION     FEET
               FLOW                  CUBIC FEET PER SECOND
               STORAGE VOLUME        ACRE-FEET
               SURFACE AREA          ACRES
               TEMPERATURE           DEGREES FAHRENHEIT

    JP          MULTI-PLAN OPTION
                    NPLAN           1  NUMBER OF PLANS

    JR          MULTI-RATIO OPTION
                   RATIOS OF PRECIPITATION
                   .83      .80      .76      .73      .69      .64      .58      .53


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

          **************
          *            *
 226 KK   *      INRR  *
          *            *
          **************

 228 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          1  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL          0.  HYDROGRAPH PLOT SCALE

 229 HC          HYDROGRAPH COMBINATION
                      ICOMP          3  NUMBER OF HYDROGRAPHS TO COMBINE

                                                
```

1	0555	72	22176.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.					
1	0600	73	21424.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.					
1	0605	74	20608.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.					
1	0610	75	19675.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.					

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 34657.	4.92	14774.	3772.	3634.	3634.
		(INCHES) 2.510	2.563	2.563	2.563
		(AC-FT) 7326.	7483.	7483.	7483.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .80

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	*	1	0615	76	17860.	*	1	1230	151	0.	*	1	1845	226	0.				
1	0005	2	0.	*	1	0620	77	16700.	*	1	1235	152	0.	*	1	1850	227	0.				
1	0010	3	0.	*	1	0625	78	15430.	*	1	1240	153	0.	*	1	1855	228	0.				
1	0015	4	2.	*	1	0630	79	14087.	*	1	1245	154	0.	*	1	1900	229	0.				
1	0020	5	16.	*	1	0635	80	12719.	*	1	1250	155	0.	*	1	1905	230	0.				
1	0025	6	65.	*	1	0640	81	11372.	*	1	1255	156	0.	*	1	1910	231	0.				
1	0030	7	141.	*	1	0645	82	10089.	*	1	1300	157	0.	*	1	1915	232	0.				
1	0035	8	199.	*	1	0650	83	8898.	*	1	1305	158	0.	*	1	1920	233	0.				
1	0040	9	225.	*	1	0655	84	7813.	*	1	1310	159	0.	*	1	1925	234	0.				
1	0045	10	243.	*	1	0700	85	6841.	*	1	1315	160	0.	*	1	1930	235	0.				
1	0050	11	271.	*	1	0705	86	5975.	*	1	1320	161	0.	*	1	1935	236	0.				
1	0055	12	320.	*	1	0710	87	5206.	*	1	1325	162	0.	*	1	1940	237	0.				
1	0100	13	389.	*	1	0715	88	4525.	*	1	1330	163	0.	*	1	1945	238	0.				
1	0105	14	475.	*	1	0720	89	3921.	*	1	1335	164	0.	*	1	1950	239	0.				
1	0110	15	583.	*	1	0725	90	3384.	*	1	1340	165	0.	*	1	1955	240	0.				
1	0115	16	720.	*	1	0730	91	2908.	*	1	1345	166	0.	*	1	2000	241	0.				
1	0120	17	888.	*	1	0735	92	2486.	*	1	1350	167	0.	*	1	2005	242	0.				
1	0125	18	1090.	*	1	0740	93	2114.	*	1	1355	168	0.	*	1	2010	243	0.				
1	0130	19	1329.	*	1	0745	94	1788.	*	1	1400	169	0.	*	1	2015	244	0.				
1	0135	20	1598.	*	1	0750	95	1504.	*	1	1405	170	0.	*	1	2020	245	0.				
1	0140	21	1882.	*	1	0755	96	1260.	*	1	1410	171	0.	*	1	2025	246	0.				
1	0145	22	2164.	*	1	0800	97	1051.	*	1	1415	172	0.	*	1	2030	247	0.				
1	0150	23	2435.	*	1	0805	98	875.	*	1	1420	173	0.	*	1	2035	248	0.				
1	0155	24	2697.	*	1	0810	99	726.	*	1	1425	174	0.	*	1	2040	249	0.				
1	0200	25	2972.	*	1	0815	100	601.	*	1	1430	175	0.	*	1	2045	250	0.				
1	0205	26	3244.	*	1	0820	101	497.	*	1	1435	176	0.	*	1	2050	251	0.				
1	0210	27	3485.	*	1	0825	102	411.	*	1	1440	177	0.	*	1	2055	252	0.				
1	0215	28	3682.	*	1	0830	103	339.	*	1	1445	178	0.	*	1	2100	253	0.				
1	0220	29	3848.	*	1	0835	104	280.	*	1	1450	179	0.	*	1	2105	254	0.				
1	0225	30	4016.	*	1	0840	105	230.	*	1	1455	180	0.	*	1	2110	255	0.				
1	0230	31	4216.	*	1	0845	106	189.	*	1	1500	181	0.	*	1	2115	256	0.				
1	0235	32	4449.	*	1	0850	107	156.	*	1	1505	182	0.	*	1	2120	257	0.				
1	0240	33	4696.	*	1	0855	108	128.	*	1	1510	183	0.	*	1	2125	258	0.				
1	0245	34	4961.	*	1	0900	109	105.	*	1	1515	184	0.	*	1	2130	259	0.				
1	0250	35	5263.	*	1	0905	110	85.	*	1	1520	185	0.	*	1	2135	260	0.				
1	0255	36	5608.	*	1	0910	111	69.	*	1	1525	186	0.	*	1	2140	261	0.				
1	0300	37	5996.	*	1	0915	112	55.	*	1	1530	187	0.	*	1	2145	262	0.				
1	0305	38	6414.	*	1	0920	113	43.	*	1	1535	188	0.	*	1	2150	263	0.				
1	0310	39	6874.	*	1	0925	114	34.	*	1	1540	189	0.	*	1	2155	264	0.				
1	0315	40	7440.	*	1	0930	115	26.	*	1	1545	190	0.	*	1	2200	265	0.				
1	0320	41	8086.	*	1	0935	116	20.	*	1	1550	191	0.	*	1	2205	266	0.				
1	0325	42	8858.	*	1	0940	117	15.	*	1	1555	192	0.	*	1	2210	267	0.				
1	0330	43	9917.	*	1	0945	118	12.	*	1	1600	193	0.	*	1	2215	268	0.				
1	0335	44	11044.	*	1	0950	119	9.	*	1	1605	194	0.	*	1	2220	269	0.				
1	0340	45	11760.	*	1	0955	120	7.	*	1	1610	195	0.	*	1	2225	270	0.				
1	0345	46	12321.	*	1	1000	121	5.	*	1	1615	196	0.	*	1	2230	271	0.				
1	0350	47	13242.	*	1	1005	122	4.	*	1	1620	197	0.	*	1	2235	272	0.				
1	0355	48	14583.	*	1	1010	123	3.	*	1	1625	198	0.	*	1	2240	273	0.				
1	0400	49	16078.	*	1	1015	124	2.	*	1	1630	199	0.	*	1	2245	274	0.				
1	0405	50	17633.	*	1	1020	125	2.	*	1	1635	200	0.	*	1	2250	275	0.				
1	0410	51	19310.	*	1	1025	126	1.	*	1	1640	201	0.	*	1	2255	276	0.				
1	0415	52	21134.	*	1	1030	127	1.	*	1	1645	202	0.	*	1	2300	277	0.				
1	0420	53	23056.	*	1	1035	128	1.	*	1	1650	203	0.	*	1	2305	278	0.				
1	0425	54	24999.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.				
1	0430	55	26939.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.				
1	0435	56	28823.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.				
1	0440	57	30522.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.				
1	0445	58	31849.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.				
1	0450	59	32746.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.				
1	0455	60	33132.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.				
1	0500	61	32884.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.				
1	0505	62	32132.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.				
1	0510	63	31097.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.				
1	0515	64	29887.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.				
1	0520	65	28570.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.				
1	0525	66	27232.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.				

1	0530	67	25947.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.					
1	0535	68	24759.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.					
1	0540	69	23701.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.					
1	0545	70	22784.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.					
1	0550	71	21994.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.					
1	0555	72	21274.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.					
1	0600	73	20558.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.					
1	0605	74	19778.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.					
1	0610	75	18886.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.					

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 33132.	4.92	14086.	3595.	3462.	3462.
		(INCHES) 2.393	2.443	2.443	2.443
		(AC-FT) 6985.	7130.	7130.	7130.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .76

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	*	1	0615	76	16825.	*	1	1230	151	0.	*	1	1845	226	0.				
1	0005	2	0.	*	1	0620	77	15735.	*	1	1235	152	0.	*	1	1850	227	0.				
1	0010	3	0.	*	1	0625	78	14541.	*	1	1240	153	0.	*	1	1855	228	0.				
1	0015	4	1.	*	1	0630	79	13277.	*	1	1245	154	0.	*	1	1900	229	0.				
1	0020	5	12.	*	1	0635	80	11990.	*	1	1250	155	0.	*	1	1905	230	0.				
1	0025	6	52.	*	1	0640	81	10722.	*	1	1255	156	0.	*	1	1910	231	0.				
1	0030	7	118.	*	1	0645	82	9513.	*	1	1300	157	0.	*	1	1915	232	0.				
1	0035	8	166.	*	1	0650	83	8390.	*	1	1305	158	0.	*	1	1920	233	0.				
1	0040	9	188.	*	1	0655	84	7369.	*	1	1310	159	0.	*	1	1925	234	0.				
1	0045	10	204.	*	1	0700	85	6452.	*	1	1315	160	0.	*	1	1930	235	0.				
1	0050	11	227.	*	1	0705	86	5636.	*	1	1320	161	0.	*	1	1935	236	0.				
1	0055	12	266.	*	1	0710	87	4911.	*	1	1325	162	0.	*	1	1940	237	0.				
1	0100	13	323.	*	1	0715	88	4269.	*	1	1330	163	0.	*	1	1945	238	0.				
1	0105	14	394.	*	1	0720	89	3699.	*	1	1335	164	0.	*	1	1950	239	0.				
1	0110	15	484.	*	1	0725	90	3193.	*	1	1340	165	0.	*	1	1955	240	0.				
1	0115	16	600.	*	1	0730	91	2744.	*	1	1345	166	0.	*	1	2000	241	0.				
1	0120	17	743.	*	1	0735	92	2346.	*	1	1350	167	0.	*	1	2005	242	0.				
1	0125	18	915.	*	1	0740	93	1995.	*	1	1355	168	0.	*	1	2010	243	0.				
1	0130	19	1122.	*	1	0745	94	1687.	*	1	1400	169	0.	*	1	2015	244	0.				
1	0135	20	1356.	*	1	0750	95	1420.	*	1	1405	170	0.	*	1	2020	245	0.				
1	0140	21	1604.	*	1	0755	96	1189.	*	1	1410	171	0.	*	1	2025	246	0.				
1	0145	22	1854.	*	1	0800	97	992.	*	1	1415	172	0.	*	1	2030	247	0.				
1	0150	23	2094.	*	1	0805	98	826.	*	1	1420	173	0.	*	1	2035	248	0.				
1	0155	24	2330.	*	1	0810	99	685.	*	1	1425	174	0.	*	1	2040	249	0.				
1	0200	25	2580.	*	1	0815	100	568.	*	1	1430	175	0.	*	1	2045	250	0.				
1	0205	26	2831.	*	1	0820	101	470.	*	1	1435	176	0.	*	1	2050	251	0.				
1	0210	27	3057.	*	1	0825	102	388.	*	1	1440	177	0.	*	1	2055	252	0.				
1	0215	28	3243.	*	1	0830	103	320.	*	1	1445	178	0.	*	1	2100	253	0.				
1	0220	29	3403.	*	1	0835	104	264.	*	1	1450	179	0.	*	1	2105	254	0.				
1	0225	30	3565.	*	1	0840	105	217.	*	1	1455	180	0.	*	1	2110	255	0.				
1	0230	31	3757.	*	1	0845	106	179.	*	1	1500	181	0.	*	1	2115	256	0.				
1	0235	32	3978.	*	1	0850	107	147.	*	1	1505	182	0.	*	1	2120	257	0.				
1	0240	33	4213.	*	1	0855	108	121.	*	1	1510	183	0.	*	1	2125	258	0.				
1	0245	34	4464.	*	1	0900	109	99.	*	1	1515	184	0.	*	1	2130	259	0.				
1	0250	35	4749.	*	1	0905	110	80.	*	1	1520	185	0.	*	1	2135	260	0.				
1	0255	36	5071.	*	1	0910	111	65.	*	1	1525	186	0.	*	1	2140	261	0.				
1	0300	37	5435.	*	1	0915	112	52.	*	1	1530	187	0.	*	1	2145	262	0.				
1	0305	38	5829.	*	1	0920	113	41.	*	1	1535	188	0.	*	1	2150	263	0.				
1	0310	39	6261.	*	1	0925	114	32.	*	1	1540	189	0.	*	1	2155	264	0.				
1	0315	40	6792.	*	1	0930	115	25.	*	1	1545	190	0.	*	1	2200	265	0.				
1	0320	41	7398.	*	1	0935	116	19.	*	1	1550	191	0.	*	1	2205	266	0.				
1	0325	42	8125.	*	1	0940	117	15.	*	1	1555	192	0.	*	1	2210	267	0.				
1	0330	43	9121.	*	1	0945	118	11.	*	1	1600	193	0.	*	1	2215	268	0.				
1	0335	44	10184.	*	1	0950	119	9.	*	1	1605	194	0.	*	1	2220	269	0.				
1	0340	45	10860.	*	1	0955	120	7.	*	1	1610	195	0.	*	1	2225	270	0.				
1	0345	46	11383.	*	1	1000	121	5.	*	1	1615	196	0.	*	1	2230	271	0.				
1	0350	47	12244.	*	1	1005	122	4.	*	1	1620	197	0.	*	1	2235	272	0.				
1	0355	48	13502.	*	1	1010	123	3.	*	1	1625	198	0.	*	1	2240	273	0.				
1	0400	49	14911.	*	1	1015	124	2.	*	1	1630	199	0.	*	1	2245	274	0.				
1	0405	50	16368.	*	1	1020	125	2.	*	1	1635	200	0.	*	1	2250	275	0.				
1	0410	51	17942.	*	1	1025	126	1.	*	1	1640	201	0.	*	1	2255	276	0.				
1	0415	52	19660.	*	1	1030	127	1.	*	1	1645	202	0.	*	1	2300	277	0.				
1	0420	53	21466.	*	1	1035	128	1.	*	1	1650	203	0.	*	1	2305	278	0.				
1	0425	54	23294.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.				
1	0430	55	25121.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.				
1	0435	56	26901.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.				
1	0440	57	28508.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.				
1	0445	58	29768.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.				
1	0450	59	30625.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.				
1	0455	60	31003.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.				
1	0500	61	30788.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.				

1	0505	62	30102.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.					
1	0510	63	29144.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.					
1	0515	64	28024.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.					
1	0520	65	26802.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.					
1	0525	66	25558.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.					
1	0530	67	24362.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.					
1	0535	68	23258.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.					
1	0540	69	22274.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.					
1	0545	70	21421.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.					
1	0550	71	20687.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.					
1	0555	72	20018.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.					
1	0600	73	19350.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.					
1	0605	74	18622.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.					
1	0610	75	17787.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.					

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
	(CFS)				
+ 31003.	4.92	13134.	3349.	3225.	3225.
	(INCHES)	2.231	2.275	2.275	2.275
	(AC-FT)	6512.	6642.	6642.	6642.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .73

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	1	0615	76	15761.	1	1230	151	0.	1	1845	226	0.				
1	0005	2	0.	1	0620	77	14744.	1	1235	152	0.	1	1850	227	0.				
1	0010	3	0.	1	0625	78	13628.	1	1240	153	0.	1	1855	228	0.				
1	0015	4	1.	1	0630	79	12446.	1	1245	154	0.	1	1900	229	0.				
1	0020	5	8.	1	0635	80	11241.	1	1250	155	0.	1	1905	230	0.				
1	0025	6	41.	1	0640	81	10054.	1	1255	156	0.	1	1910	231	0.				
1	0030	7	96.	1	0645	82	8921.	1	1300	157	0.	1	1915	232	0.				
1	0035	8	137.	1	0650	83	7869.	1	1305	158	0.	1	1920	233	0.				
1	0040	9	155.	1	0655	84	6912.	1	1310	159	0.	1	1925	234	0.				
1	0045	10	168.	1	0700	85	6053.	1	1315	160	0.	1	1930	235	0.				
1	0050	11	186.	1	0705	86	5288.	1	1320	161	0.	1	1935	236	0.				
1	0055	12	217.	1	0710	87	4608.	1	1325	162	0.	1	1940	237	0.				
1	0100	13	262.	1	0715	88	4006.	1	1330	163	0.	1	1945	238	0.				
1	0105	14	319.	1	0720	89	3471.	1	1335	164	0.	1	1950	239	0.				
1	0110	15	392.	1	0725	90	2997.	1	1340	165	0.	1	1955	240	0.				
1	0115	16	488.	1	0730	91	2576.	1	1345	166	0.	1	2000	241	0.				
1	0120	17	606.	1	0735	92	2202.	1	1350	167	0.	1	2005	242	0.				
1	0125	18	751.	1	0740	93	1873.	1	1355	168	0.	1	2010	243	0.				
1	0130	19	925.	1	0745	94	1584.	1	1400	169	0.	1	2015	244	0.				
1	0135	20	1125.	1	0750	95	1333.	1	1405	170	0.	1	2020	245	0.				
1	0140	21	1339.	1	0755	96	1116.	1	1410	171	0.	1	2025	246	0.				
1	0145	22	1556.	1	0800	97	932.	1	1415	172	0.	1	2030	247	0.				
1	0150	23	1766.	1	0805	98	775.	1	1420	173	0.	1	2035	248	0.				
1	0155	24	1975.	1	0810	99	643.	1	1425	174	0.	1	2040	249	0.				
1	0200	25	2199.	1	0815	100	533.	1	1430	175	0.	1	2045	250	0.				
1	0205	26	2429.	1	0820	101	441.	1	1435	176	0.	1	2050	251	0.				
1	0210	27	2636.	1	0825	102	364.	1	1440	177	0.	1	2055	252	0.				
1	0215	28	2812.	1	0830	103	301.	1	1445	178	0.	1	2100	253	0.				
1	0220	29	2965.	1	0835	104	248.	1	1450	179	0.	1	2105	254	0.				
1	0225	30	3119.	1	0840	105	204.	1	1455	180	0.	1	2110	255	0.				
1	0230	31	3302.	1	0845	106	168.	1	1500	181	0.	1	2115	256	0.				
1	0235	32	3511.	1	0850	107	138.	1	1505	182	0.	1	2120	257	0.				
1	0240	33	3732.	1	0855	108	113.	1	1510	183	0.	1	2125	258	0.				
1	0245	34	3968.	1	0900	109	93.	1	1515	184	0.	1	2130	259	0.				
1	0250	35	4233.	1	0905	110	75.	1	1520	185	0.	1	2135	260	0.				
1	0255	36	4535.	1	0910	111	61.	1	1525	186	0.	1	2140	261	0.				
1	0300	37	4875.	1	0915	112	49.	1	1530	187	0.	1	2145	262	0.				
1	0305	38	5241.	1	0920	113	38.	1	1535	188	0.	1	2150	263	0.				
1	0310	39	5643.	1	0925	114	30.	1	1540	189	0.	1	2155	264	0.				
1	0315	40	6138.	1	0930	115	23.	1	1545	190	0.	1	2200	265	0.				
1	0320	41	6704.	1	0935	116	18.	1	1550	191	0.	1	2205	266	0.				
1	0325	42	7378.	1	0940	117	14.	1	1555	192	0.	1	2210	267	0.				
1	0330	43	8310.	1	0945	118	11.	1	1600	193	0.	1	2215	268	0.				
1	0335	44	9303.	1	0950	119	8.	1	1605	194	0.	1	2220	269	0.				
1	0340	45	9944.	1	0955	120	6.	1	1610	195	0.	1	2225	270	0.				
1	0345	46	10441.	1	1000	121	5.	1	1615	196	0.	1	2230	271	0.				
1	0350	47	11237.	1	1005	122	4.	1	1620	197	0.	1	2235	272	0.				
1	0355	48	12407.	1	1010	123	3.	1	1625	198	0.	1	2240	273	0.				
1	0400	49	13720.	1	1015	124	2.	1	1630	199	0.	1	2245	274	0.				
1	0405	50	15079.	1	1020	125	2.	1	1635	200	0.	1	2250	275	0.				
1	0410	51	16550.	1	1025	126	1.	1	1640	201	0.	1	2255	276	0.				
1	0415	52	18153.	1	1030	127	1.	1	1645	202	0.	1	2300	277	0.				
1	0420	53	19842.	1	1035	128	0.	1	1650	203	0.	1	2305	278	0.				
1	0425	54	21554.	1	1040	129	0.	1	1655	204	0.	1	2310	279	0.				
1	0430	55	23266.	1	1045	130	0.	1	1700	205	0.	1	2315	280	0.				
1	0435	56	24934.	1	1050	131	0.	1	1705	206	0.	1	2320	281	0.				

1	0440	57	26447.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.					
1	0445	58	27639.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.					
1	0450	59	28455.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.					
1	0455	60	28825.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.					
1	0500	61	28644.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.					
1	0505	62	28023.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.					
1	0510	63	27146.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.					
1	0515	64	26115.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.					
1	0520	65	24989.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.					
1	0525	66	23842.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.					
1	0530	67	22738.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.					
1	0535	68	21719.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.					
1	0540	69	20811.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.					
1	0545	70	20024.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.					
1	0550	71	19346.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.					
1	0555	72	18728.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.					
1	0600	73	18110.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.					
1	0605	74	17435.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.					
1	0610	75	16658.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.					

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
	(CFS)				
+ 28825.	4.92	12164.	3098.	2984.	2984.
	(INCHES)	2.066	2.105	2.105	2.105
	(AC-FT)	6032.	6146.	6146.	6146.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .69

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	1	0615	76	14964.	1	1230	151	0.	1	1845	226	0.				
1	0005	2	0.	1	0620	77	14000.	1	1235	152	0.	1	1850	227	0.				
1	0010	3	0.	1	0625	78	12942.	1	1240	153	0.	1	1855	228	0.				
1	0015	4	0.	1	0630	79	11822.	1	1245	154	0.	1	1900	229	0.				
1	0020	5	6.	1	0635	80	10679.	1	1250	155	0.	1	1905	230	0.				
1	0025	6	34.	1	0640	81	9552.	1	1255	156	0.	1	1910	231	0.				
1	0030	7	82.	1	0645	82	8477.	1	1300	157	0.	1	1915	232	0.				
1	0035	8	118.	1	0650	83	7478.	1	1305	158	0.	1	1920	233	0.				
1	0040	9	132.	1	0655	84	6569.	1	1310	159	0.	1	1925	234	0.				
1	0045	10	143.	1	0700	85	5753.	1	1315	160	0.	1	1930	235	0.				
1	0050	11	158.	1	0705	86	5026.	1	1320	161	0.	1	1935	236	0.				
1	0055	12	184.	1	0710	87	4381.	1	1325	162	0.	1	1940	237	0.				
1	0100	13	220.	1	0715	88	3809.	1	1330	163	0.	1	1945	238	0.				
1	0105	14	268.	1	0720	89	3300.	1	1335	164	0.	1	1950	239	0.				
1	0110	15	329.	1	0725	90	2850.	1	1340	165	0.	1	1955	240	0.				
1	0115	16	410.	1	0730	91	2449.	1	1345	166	0.	1	2000	241	0.				
1	0120	17	513.	1	0735	92	2094.	1	1350	167	0.	1	2005	242	0.				
1	0125	18	638.	1	0740	93	1781.	1	1355	168	0.	1	2010	243	0.				
1	0130	19	790.	1	0745	94	1506.	1	1400	169	0.	1	2015	244	0.				
1	0135	20	965.	1	0750	95	1268.	1	1405	170	0.	1	2020	245	0.				
1	0140	21	1154.	1	0755	96	1062.	1	1410	171	0.	1	2025	246	0.				
1	0145	22	1347.	1	0800	97	886.	1	1415	172	0.	1	2030	247	0.				
1	0150	23	1536.	1	0805	98	737.	1	1420	173	0.	1	2035	248	0.				
1	0155	24	1725.	1	0810	99	612.	1	1425	174	0.	1	2040	249	0.				
1	0200	25	1929.	1	0815	100	507.	1	1430	175	0.	1	2045	250	0.				
1	0205	26	2142.	1	0820	101	420.	1	1435	176	0.	1	2050	251	0.				
1	0210	27	2336.	1	0825	102	347.	1	1440	177	0.	1	2055	252	0.				
1	0215	28	2503.	1	0830	103	286.	1	1445	178	0.	1	2100	253	0.				
1	0220	29	2650.	1	0835	104	236.	1	1450	179	0.	1	2105	254	0.				
1	0225	30	2798.	1	0840	105	194.	1	1455	180	0.	1	2110	255	0.				
1	0230	31	2972.	1	0845	106	160.	1	1500	181	0.	1	2115	256	0.				
1	0235	32	3171.	1	0850	107	131.	1	1505	182	0.	1	2120	257	0.				
1	0240	33	3382.	1	0855	108	108.	1	1510	183	0.	1	2125	258	0.				
1	0245	34	3606.	1	0900	109	88.	1	1515	184	0.	1	2130	259	0.				
1	0250	35	3858.	1	0905	110	72.	1	1520	185	0.	1	2135	260	0.				
1	0255	36	4142.	1	0910	111	58.	1	1525	186	0.	1	2140	261	0.				
1	0300	37	4461.	1	0915	112	46.	1	1530	187	0.	1	2145	262	0.				
1	0305	38	4809.	1	0920	113	37.	1	1535	188	0.	1	2150	263	0.				
1	0310	39	5190.	1	0925	114	29.	1	1540	189	0.	1	2155	264	0.				
1	0315	40	5658.	1	0930	115	22.	1	1545	190	0.	1	2200	265	0.				
1	0320	41	6191.	1	0935	116	17.	1	1550	191	0.	1	2205	266	0.				
1	0325	42	6830.	1	0940	117	13.	1	1555	192	0.	1	2210	267	0.				
1	0330	43	7709.	1	0945	118	10.	1	1600	193	0.	1	2215	268	0.				
1	0335	44	8656.	1	0950	119	8.	1	1605	194	0.	1	2220	269	0.				
1	0340	45	9267.	1	0955	120	6.	1	1610	195	0.	1	2225	270	0.				
1	0345	46	9730.	1	1000	121	5.	1	1615	196	0.	1	2230	271	0.				
1	0350	47	10486.	1	1005	122	3.	1	1620	197	0.	1	2235	272	0.				
1	0355	48	11593.	1	1010	123	3.	1	1625	198	0.	1	2240	273	0.				
1	0400	49	12838.	1	1015	124	2.	1	1630	199	0.	1	2245	274	0.				
1	0405	50	14125.	1	1020	125	1.	1	1635	200	0.	1	2250	275	0.				
1	0410	51	15513.	1	1025	126	1.	1	1640	201	0.	1	2255	276	0.				

1	0415	52	17029.	*	1	1030	127	1.	*	1	1645	202	0.	*	1	2300	277	0.					
1	0420	53	18632.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.					
1	0425	54	20256.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.					
1	0430	55	21881.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.					
1	0435	56	23466.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.					
1	0440	57	24906.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.					
1	0445	58	26047.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.					
1	0450	59	26833.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.					
1	0455	60	27198.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.					
1	0500	61	27041.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.					
1	0505	62	26465.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.					
1	0510	63	25649.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.					
1	0515	64	24685.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.					
1	0520	65	23631.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.					
1	0525	66	22555.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.					
1	0530	67	21521.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.					
1	0535	68	20565.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.					
1	0540	69	19714.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.					
1	0545	70	18975.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.					
1	0550	71	18340.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.					
1	0555	72	17760.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.					
1	0600	73	17180.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.					
1	0605	74	16544.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.					
1	0610	75	15812.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.					
				*					*					*										

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
	(CFS)				
+ 27198.	4.92	11442.	2912.	2805.	2805.
	(INCHES)	1.944	1.979	1.979	1.979
	(AC-FT)	5674.	5777.	5777.	5777.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .64

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	
1	0000	1	0.	*	1	0615	76	13499.	*	1	1230	151	0.	*	1	1845	226	0.					
1	0005	2	0.	*	1	0620	77	12636.	*	1	1235	152	0.	*	1	1850	227	0.					
1	0010	3	0.	*	1	0625	78	11685.	*	1	1240	153	0.	*	1	1855	228	0.					
1	0015	4	0.	*	1	0630	79	10677.	*	1	1245	154	0.	*	1	1900	229	0.					
1	0020	5	3.	*	1	0635	80	9647.	*	1	1250	155	0.	*	1	1905	230	0.					
1	0025	6	22.	*	1	0640	81	8631.	*	1	1255	156	0.	*	1	1910	231	0.					
1	0030	7	58.	*	1	0645	82	7661.	*	1	1300	157	0.	*	1	1915	232	0.					
1	0035	8	84.	*	1	0650	83	6760.	*	1	1305	158	0.	*	1	1920	233	0.					
1	0040	9	95.	*	1	0655	84	5939.	*	1	1310	159	0.	*	1	1925	234	0.					
1	0045	10	103.	*	1	0700	85	5202.	*	1	1315	160	0.	*	1	1930	235	0.					
1	0050	11	113.	*	1	0705	86	4546.	*	1	1320	161	0.	*	1	1935	236	0.					
1	0055	12	130.	*	1	0710	87	3963.	*	1	1325	162	0.	*	1	1940	237	0.					
1	0100	13	155.	*	1	0715	88	3446.	*	1	1330	163	0.	*	1	1945	238	0.					
1	0105	14	186.	*	1	0720	89	2987.	*	1	1335	164	0.	*	1	1950	239	0.					
1	0110	15	229.	*	1	0725	90	2579.	*	1	1340	165	0.	*	1	1955	240	0.					
1	0115	16	287.	*	1	0730	91	2217.	*	1	1345	166	0.	*	1	2000	241	0.					
1	0120	17	361.	*	1	0735	92	1896.	*	1	1350	167	0.	*	1	2005	242	0.					
1	0125	18	453.	*	1	0740	93	1612.	*	1	1355	168	0.	*	1	2010	243	0.					
1	0130	19	567.	*	1	0745	94	1364.	*	1	1400	169	0.	*	1	2015	244	0.					
1	0135	20	700.	*	1	0750	95	1148.	*	1	1405	170	0.	*	1	2020	245	0.					
1	0140	21	846.	*	1	0755	96	961.	*	1	1410	171	0.	*	1	2025	246	0.					
1	0145	22	997.	*	1	0800	97	803.	*	1	1415	172	0.	*	1	2030	247	0.					
1	0150	23	1147.	*	1	0805	98	668.	*	1	1420	173	0.	*	1	2035	248	0.					
1	0155	24	1301.	*	1	0810	99	554.	*	1	1425	174	0.	*	1	2040	249	0.					
1	0200	25	1472.	*	1	0815	100	459.	*	1	1430	175	0.	*	1	2045	250	0.					
1	0205	26	1652.	*	1	0820	101	380.	*	1	1435	176	0.	*	1	2050	251	0.					
1	0210	27	1821.	*	1	0825	102	314.	*	1	1440	177	0.	*	1	2055	252	0.					
1	0215	28	1970.	*	1	0830	103	259.	*	1	1445	178	0.	*	1	2100	253	0.					
1	0220	29	2103.	*	1	0835	104	214.	*	1	1450	179	0.	*	1	2105	254	0.					
1	0225	30	2238.	*	1	0840	105	176.	*	1	1455	180	0.	*	1	2110	255	0.					
1	0230	31	2395.	*	1	0845	106	145.	*	1	1500	181	0.	*	1	2115	256	0.					
1	0235	32	2575.	*	1	0850	107	119.	*	1	1505	182	0.	*	1	2120	257	0.					
1	0240	33	2766.	*	1	0855	108	98.	*	1	1510	183	0.	*	1	2125	258	0.					
1	0245	34	2967.	*	1	0900	109	80.	*	1	1515	184	0.	*	1	2130	259	0.					
1	0250	35	3193.	*	1	0905	110	65.	*	1	1520	185	0.	*	1	2135	260	0.					
1	0255	36	3447.	*	1	0910	111	52.	*	1	1525	186	0.	*	1	2140	261	0.					
1	0300	37	3731.	*	1	0915	112	42.	*	1	1530	187	0.	*	1	2145	262	0.					
1	0305	38	4039.	*	1	0920	113	33.	*	1	1535	188	0.	*	1	2150	263	0.					
1	0310	39	4378.	*	1	0925	114	26.	*	1	1540	189	0.	*	1	2155	264	0.					
1	0315	40	4796.	*	1	0930	115	20.	*	1	1545	190	0.	*	1	2200	265	0.					
1	0320	41	5275.	*	1	0935	116	15.	*	1	1550	191	0.	*	1	2205	266	0.					
1	0325	42	5848.	*	1	0940	117	12.	*	1	1555	192	0.	*	1	2210	267	0.					
1	0330	43	6631.	*	1	0945	118	9.	*	1	1600	193	0.	*	1	2215	268	0.					
1	0335	44	7481.	*	1	0950	119	7.	*	1	1605	194	0.	*	1	2220	269	0.					
1	0340	45	8042.	*	1	0955	120	5.	*	1	1610	195	0.	*	1	2225	270	0.					
1	0345	46	8465.	*	1	1000	121	4.	*	1	1615	196	0.	*	1	2230	271	0.					

1	0350	47	9131.	*	1	1005	122	3.	*	1	1620	197	0.	*	1	2235	272	0.					
1	0355	48	10115.	*	1	1010	123	2.	*	1	1625	198	0.	*	1	2240	273	0.					
1	0400	49	11229.	*	1	1015	124	2.	*	1	1630	199	0.	*	1	2245	274	0.					
1	0405	50	12387.	*	1	1020	125	1.	*	1	1635	200	0.	*	1	2250	275	0.					
1	0410	51	13634.	*	1	1025	126	1.	*	1	1640	201	0.	*	1	2255	276	0.					
1	0415	52	14993.	*	1	1030	127	1.	*	1	1645	202	0.	*	1	2300	277	0.					
1	0420	53	16429.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.					
1	0425	54	17890.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.					
1	0430	55	19356.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.					
1	0435	56	20791.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.					
1	0440	57	22100.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.					
1	0445	58	23143.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.					
1	0450	59	23872.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.					
1	0455	60	24227.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.					
1	0500	61	24116.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.					
1	0505	62	23623.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.					
1	0510	63	22911.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.					
1	0515	64	22069.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.					
1	0520	65	21147.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.					
1	0525	66	20203.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.					
1	0530	67	19293.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.					
1	0535	68	18453.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.					
1	0540	69	17704.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.					
1	0545	70	17055.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.					
1	0550	71	16496.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.					
1	0555	72	15987.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.					
1	0600	73	15475.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.					
1	0605	74	14911.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.					
1	0610	75	14258.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.					
				*					*					*										

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
	(CFS)				
+ 24227.	4.92	10134.	2576.	2481.	2481.
	(INCHES)	1.722	1.750	1.750	1.750
	(AC-FT)	5025.	5108.	5108.	5108.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .58

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	
1	0000	1	0.	*	1	0615	76	11903.	*	1	1230	151	0.	*	1	1845	226	0.					
1	0005	2	0.	*	1	0620	77	11147.	*	1	1235	152	0.	*	1	1850	227	0.					
1	0010	3	0.	*	1	0625	78	10313.	*	1	1240	153	0.	*	1	1855	228	0.					
1	0015	4	0.	*	1	0630	79	9427.	*	1	1245	154	0.	*	1	1900	229	0.					
1	0020	5	1.	*	1	0635	80	8521.	*	1	1250	155	0.	*	1	1905	230	0.					
1	0025	6	12.	*	1	0640	81	7626.	*	1	1255	156	0.	*	1	1910	231	0.					
1	0030	7	36.	*	1	0645	82	6771.	*	1	1300	157	0.	*	1	1915	232	0.					
1	0035	8	56.	*	1	0650	83	5976.	*	1	1305	158	0.	*	1	1920	233	0.					
1	0040	9	64.	*	1	0655	84	5252.	*	1	1310	159	0.	*	1	1925	234	0.					
1	0045	10	68.	*	1	0700	85	4601.	*	1	1315	160	0.	*	1	1930	235	0.					
1	0050	11	73.	*	1	0705	86	4022.	*	1	1320	161	0.	*	1	1935	236	0.					
1	0055	12	83.	*	1	0710	87	3507.	*	1	1325	162	0.	*	1	1940	237	0.					
1	0100	13	97.	*	1	0715	88	3050.	*	1	1330	163	0.	*	1	1945	238	0.					
1	0105	14	116.	*	1	0720	89	2644.	*	1	1335	164	0.	*	1	1950	239	0.					
1	0110	15	142.	*	1	0725	90	2283.	*	1	1340	165	0.	*	1	1955	240	0.					
1	0115	16	178.	*	1	0730	91	1963.	*	1	1345	166	0.	*	1	2000	241	0.					
1	0120	17	227.	*	1	0735	92	1679.	*	1	1350	167	0.	*	1	2005	242	0.					
1	0125	18	288.	*	1	0740	93	1428.	*	1	1355	168	0.	*	1	2010	243	0.					
1	0130	19	366.	*	1	0745	94	1208.	*	1	1400	169	0.	*	1	2015	244	0.					
1	0135	20	458.	*	1	0750	95	1017.	*	1	1405	170	0.	*	1	2020	245	0.					
1	0140	21	562.	*	1	0755	96	852.	*	1	1410	171	0.	*	1	2025	246	0.					
1	0145	22	671.	*	1	0800	97	711.	*	1	1415	172	0.	*	1	2030	247	0.					
1	0150	23	782.	*	1	0805	98	592.	*	1	1420	173	0.	*	1	2035	248	0.					
1	0155	24	898.	*	1	0810	99	491.	*	1	1425	174	0.	*	1	2040	249	0.					
1	0200	25	1031.	*	1	0815	100	407.	*	1	1430	175	0.	*	1	2045	250	0.					
1	0205	26	1176.	*	1	0820	101	337.	*	1	1435	176	0.	*	1	2050	251	0.					
1	0210	27	1316.	*	1	0825	102	279.	*	1	1440	177	0.	*	1	2055	252	0.					
1	0215	28	1442.	*	1	0830	103	230.	*	1	1445	178	0.	*	1	2100	253	0.					
1	0220	29	1558.	*	1	0835	104	190.	*	1	1450	179	0.	*	1	2105	254	0.					
1	0225	30	1677.	*	1	0840	105	156.	*	1	1455	180	0.	*	1	2110	255	0.					
1	0230	31	1815.	*	1	0845	106	128.	*	1	1500	181	0.	*	1	2115	256	0.					
1	0235	32	1971.	*	1	0850	107	106.	*	1	1505	182	0.	*	1	2120	257	0.					
1	0240	33	2137.	*	1	0855	108	87.	*	1	1510	183	0.	*	1	2125	258	0.					
1	0245	34	2312.	*	1	0900	109	71.	*	1	1515	184	0.	*	1	2130	259	0.					
1	0250	35	2507.	*	1	0905	110	58.	*	1	1520	185	0.	*	1	2135	260	0.					
1	0255	36	2726.	*	1	0910	111	47.	*	1	1525	186	0.	*	1	2140	261	0.					
1	0300	37	2971.	*	1	0915	112	37.	*	1	1530	187	0.	*	1	2145	262	0.					
1	0305	38	3239.	*	1	0920	113	29.	*	1	1535	188	0.	*	1	2150	263	0.					
1	0310	39	3533.	*	1	0925	114	23.	*	1	1540	189	0.	*	1	2155	264	0.					
1	0315	40	3893.	*	1	0930	115	18.	*	1	1545	190	0.	*	1	2200	265	0.					
1	0320	41	4311.	*	1	0935	116	14.	*	1	1550	191	0.	*	1	2205	266	0.					

1	0325	42	4809.	*	1	0940	117	11.	*	1	1555	192	0.	*	1	2210	267	0.
1	0330	43	5492.	*	1	0945	118	8.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	6236.	*	1	0950	119	6.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	6730.	*	1	0955	120	5.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	7103.	*	1	1000	121	4.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	7685.	*	1	1005	122	3.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	8539.	*	1	1010	123	2.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	9514.	*	1	1015	124	2.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	10527.	*	1	1020	125	1.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	11613.	*	1	1025	126	1.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	12801.	*	1	1030	127	1.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	14062.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	15346.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	16635.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	17902.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	19067.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	20004.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	20667.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	21006.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	20938.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	20536.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	19943.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	19233.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	18449.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	17646.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	16871.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	16154.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	15516.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	14964.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	14488.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	14054.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	13616.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	13130.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	12564.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW				
		6-HR	24-HR	72-HR	24.92-HR	
+ (CFS)	(HR)					
		(CFS)				
+ 21006.	4.92	8731.	2215.	2133.	2133.	
		(INCHES)	1.483	1.505	1.505	1.505
		(AC-FT)	4330.	4393.	4393.	4393.

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION INRR
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .53

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	1	0615	76	10574.	1	1230	151	0.	1	1845	226	0.
1	0005	2	0.	1	0620	77	9908.	1	1235	152	0.	1	1850	227	0.
1	0010	3	0.	1	0625	78	9171.	1	1240	153	0.	1	1855	228	0.
1	0015	4	0.	1	0630	79	8386.	1	1245	154	0.	1	1900	229	0.
1	0020	5	1.	1	0635	80	7582.	1	1250	155	0.	1	1905	230	0.
1	0025	6	7.	1	0640	81	6788.	1	1255	156	0.	1	1910	231	0.
1	0030	7	23.	1	0645	82	6029.	1	1300	157	0.	1	1915	232	0.
1	0035	8	37.	1	0650	83	5322.	1	1305	158	0.	1	1920	233	0.
1	0040	9	43.	1	0655	84	4678.	1	1310	159	0.	1	1925	234	0.
1	0045	10	45.	1	0700	85	4100.	1	1315	160	0.	1	1930	235	0.
1	0050	11	48.	1	0705	86	3584.	1	1320	161	0.	1	1935	236	0.
1	0055	12	53.	1	0710	87	3126.	1	1325	162	0.	1	1940	237	0.
1	0100	13	61.	1	0715	88	2719.	1	1330	163	0.	1	1945	238	0.
1	0105	14	71.	1	0720	89	2358.	1	1335	164	0.	1	1950	239	0.
1	0110	15	86.	1	0725	90	2037.	1	1340	165	0.	1	1955	240	0.
1	0115	16	109.	1	0730	91	1751.	1	1345	166	0.	1	2000	241	0.
1	0120	17	140.	1	0735	92	1498.	1	1350	167	0.	1	2005	242	0.
1	0125	18	181.	1	0740	93	1274.	1	1355	168	0.	1	2010	243	0.
1	0130	19	233.	1	0745	94	1078.	1	1400	169	0.	1	2015	244	0.
1	0135	20	297.	1	0750	95	908.	1	1405	170	0.	1	2020	245	0.
1	0140	21	369.	1	0755	96	760.	1	1410	171	0.	1	2025	246	0.
1	0145	22	447.	1	0800	97	635.	1	1415	172	0.	1	2030	247	0.
1	0150	23	528.	1	0805	98	528.	1	1420	173	0.	1	2035	248	0.
1	0155	24	614.	1	0810	99	439.	1	1425	174	0.	1	2040	249	0.
1	0200	25	716.	1	0815	100	364.	1	1430	175	0.	1	2045	250	0.
1	0205	26	831.	1	0820	101	301.	1	1435	176	0.	1	2050	251	0.
1	0210	27	946.	1	0825	102	249.	1	1440	177	0.	1	2055	252	0.
1	0215	28	1052.	1	0830	103	205.	1	1445	178	0.	1	2100	253	0.
1	0220	29	1151.	1	0835	104	169.	1	1450	179	0.	1	2105	254	0.
1	0225	30	1254.	1	0840	105	139.	1	1455	180	0.	1	2110	255	0.
1	0230	31	1373.	1	0845	106	115.	1	1500	181	0.	1	2115	256	0.
1	0235	32	1508.	1	0850	107	94.	1	1505	182	0.	1	2120	257	0.
1	0240	33	1652.	1	0855	108	77.	1	1510	183	0.	1	2125	258	0.
1	0245	34	1804.	1	0900	109	63.	1	1515	184	0.	1	2130	259	0.
1	0250	35	1974.	1	0905	110	51.	1	1520	185	0.	1	2135	260	0.
1	0255	36	2163.	1	0910	111	42.	1	1525	186	0.	1	2140	261	0.
1	0300	37	2376.	1	0915	112	33.	1	1530	187	0.	1	2145	262	0.
1	0305	38	2608.	1	0920	113	26.	1	1535	188	0.	1	2150	263	0.
1	0310	39	2865.	1	0925	114	21.	1	1540	189	0.	1	2155	264	0.
1	0315	40	3179.	1	0930	115	16.	1	1545	190	0.	1	2200	265	0.
1	0320	41	3543.	1	0935	116	12.	1	1550	191	0.	1	2205	266	0.
1	0325	42	3979.	1	0940	117	9.	1	1555	192	0.	1	2210	267	0.
1	0330	43	4577.	1	0945	118	7.	1	1600	193	0.	1	2215	268	0.
1	0335	44	5236.	1	0950	119	6.	1	1605	194	0.	1	2220	269	0.
1	0340	45	5676.	1	0955	120	4.	1	1610	195	0.	1	2225	270	0.
1	0345	46	6002.	1	1000	121	3.	1	1615	196	0.	1	2230	271	0.
1	0350	47	6512.	1	1005	122	2.	1	1620	197	0.	1	2235	272	0.
1	0355	48	7267.	1	1010	123	2.	1	1625	198	0.	1	2240	273	0.
1	0400	49	8120.	1	1015	124	1.	1	1630	199	0.	1	2245	274	0.
1	0405	50	9008.	1	1020	125	1.	1	1635	200	0.	1	2250	275	0.
1	0410	51	9966.	1	1025	126	1.	1	1640	201	0.	1	2255	276	0.
1	0415	52	11012.	1	1030	127	1.	1	1645	202	0.	1	2300	277	0.
1	0420	53	12123.	1	1035	128	0.	1	1650	203	0.	1	2305	278	0.
1	0425	54	13260.	1	1040	129	0.	1	1655	204	0.	1	2310	279	0.
1	0430	55	14404.	1	1045	130	0.	1	1700	205	0.	1	2315	280	0.
1	0435	56	15533.	1	1050	131	0.	1	1705	206	0.	1	2320	281	0.
1	0440	57	16574.	1	1055	132	0.	1	1710	207	0.	1	2325	282	0.
1	0445	58	17419.	1	1100	133	0.	1	1715	208	0.	1	2330	283	0.
1	0450	59	18026.	1	1105	134	0.	1	1720	209	0.	1	2335	284	0.
1	0455	60	18350.	1	1110	135	0.	1	1725	210	0.	1	2340	285	0.
1	0500	61	18317.	1	1115	136	0.	1	1730	211	0.	1	2345	286	0.
1	0505	62	17988.	1	1120	137	0.	1	1735	212	0.	1	2350	287	0.
1	0510	63	17488.	1	1125	138	0.	1	1740	213	0.	1	2355	288	0.
1	0515	64	16884.	1	1130	139	0.	1	1745	214	0.	2	0000	289	0.
1	0520	65	16216.	1	1135	140	0.	1	1750	215	0.	2	0005	290	0.
1	0525	66	15528.	1	1140	141	0.	1	1755	216	0.	2	0010	291	0.
1	0530	67	14863.	1	1145	142	0.	1	1800	217	0.	2	0015	292	0.
1	0535	68	14247.	1	1150	143	0.	1	1805	218	0.	2	0020	293	0.
1	0540	69	13700.	1	1155	144	0.	1	1810	219	0.	2	0025	294	0.
1	0545	70	13226.	1	1200	145	0.	1	1815	220	0.	2	0030	295	0.
1	0550	71	12820.	1	1205	146	0.	1	1820	221	0.	2	0035	296	0.
1	0555	72	12448.	1	1210	147	0.	1	1825	222	0.	2	0040	297	0.
1	0600	73	12070.	1	1215	148	0.	1	1830	223	0.	2	0045	298	0.
1	0605	74	11649.	1	1220	149	0.	1	1835	224	0.	2	0050	299	0.
1	0610	75	11154.	1	1225	150	0.	1	1840	225	0.	2	0055	300	0.

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW				
		6-HR	24-HR	72-HR	24.92-HR	
+ (CFS)	(HR)					
		(CFS)				
+ 18350.	4.92	7586.	1921.	1850.	1850.	
		(INCHES)	1.289	1.305	1.305	1.305
		(AC-FT)	3762.	3810.	3810.	3810.

CUMULATIVE AREA = 54.73 SQ MI

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230 KK     *********
           *       *
           *  RRDB *
           *       *
           *********

243 KO          OUTPUT CONTROL VARIABLES
                     IPRNT         1  PRINT CONTROL
                     IPLOT         0  PLOT CONTROL
                     QSCAL         0.  HYDROGRAPH PLOT SCALE

               HYDROGRAPH ROUTING DATA

244 RS          STORAGE ROUTING
                     NSTPS         1  NUMBER OF SUBREACHES
                      ITYP      STOR  TYPE OF INITIAL CONDITION
                     RSVRIC    -1.00  INITIAL CONDITION
                          X      .00 WORKING R AND D COEFFICIENT

245 SV            STORAGE        .0      9.0     107.0     231.0     372.0     529.0     705.0     903.0    1125.0    1376.0
                             1659.0    1974.0    2007.0    2115.0    2331.0    2690.0    2933.0

247 SQ          DISCHARGE        0.       10.       57.       80.       99.      114.      128.      140.      151.      162.
                               171.      181.      182.     8654.    33270.   110918.   163477.

249 SE          ELEVATION     3161.00   3162.00   3167.00   3172.00   3177.00   3182.00   3187.00   3192.00   3197.00   3202.00
                              3207.00   3212.00   3212.50   3214.00   3217.00   3222.00   3225.00

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HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .83

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000	1	0.	.0	3161.0	
1	0005	2	0.	.0	3161.0	
1	0010	3	0.	.0	3161.0	
1	0015	4	0.	.0	3161.0	
1	0020	5	0.	.1	3161.0	
1	0025	6	0.	.4	3161.0	
1	0030	7	1.	1.2	3161.1	
1	0035	8	3.	2.5	3161.3	
1	0040	9	5.	4.1	3161.5	
1	0045	10	7.	5.9	3161.7	
1	0050	11	9.	7.8	3161.9	
1	0055	12	11.	10.1	3162.1	
1	0100	13	12.	12.7	3162.2	
1	0105	14	13.	16.0	3162.4	
1	0110	15	15.	20.0	3162.6	
1	0115	16	18.	25.0	3162.8	
1	0120	17	21.	31.1	3163.1	
1	0125	18	24.	38.6	3163.5	
1	0130	19	29.	47.8	3164.0	
1	0135	20	34.	58.8	3164.5	
1	0140	21	40.	71.9	3165.2	
1	0145	22	47.	87.0	3166.0	
1	0150	23	56.	104.2	3166.9	
1	0155	24	60.	123.3	3167.7	
1	0200	25	64.	144.4	3168.5	
1	0205	26	68.	167.4	3169.4	
1	0210	27	73.	192.2	3170.4	
1	0215	28	78.	218.6	3171.5	
1	0220	29	82.	246.2	3172.5	
1	0225	30	86.	275.0	3173.6	
1	0230	31	90.	305.1	3174.6	
1	0235	32	94.	336.6	3175.7	
1	0240	33	99.	369.9	3176.9	
1	0245	34	102.	404.9	3178.0	
1	0250	35	106.	442.0	3179.2	
1	0255	36	109.	481.3	3180.5	
1	0300	37	113.	523.3	3181.8	
1	0305	38	117.	568.1	3183.1	
1	0310	39	121.	616.0	3184.5	
1	0315	40	125.	667.6	3185.9	
1	0320	41	129.	723.6	3187.5	
1	0325	42	133.	784.6	3189.0	
1	0330	43	137.	852.2	3190.7	
1	0335	44	141.	927.6	3192.6	
1	0340	45	145.	1009.6	3194.4	
1	0345	46	150.	1096.0	3196.3	
1	0350	47	154.	1187.8	3198.3	
1	0355	48	158.	1287.6	3200.2	
1	0400	49	163.	1397.7	3202.4	
1	0405	50	167.	1518.7	3204.5	
1	0410	51	171.	1651.3	3206.9	
1	0415	52	175.	1796.4	3209.2	
1	0420	53	180.	1955.0	3211.7	
1	0425	54	7616.	2101.8	3213.8	
1	0430	55	18338.	2200.0	3215.2	
1	0435	56	24476.	2253.8	3215.9	
1	0440	57	28205.	2286.6	3216.4	
1	0445	58	30716.	2308.6	3216.7	
1	0450	59	32459.	2323.9	3216.9	
1	0455	60	33753.	2333.2	3217.0	
1	0500	61	34409.	2336.3	3217.1	
1	0505	62	34051.	2334.6	3217.1	
1	0510	63	33220.	2330.6	3217.0	
1	0515	64	32455.	2323.9	3216.9	
1	0520	65	31372.	2314.3	3216.8	
1	0525	66	30112.	2303.3	3216.6	
1	0530	67	28785.	2291.6	3216.5	
1	0535	68	27474.	2280.1	3216.3	
1	0540	69	26238.	2269.3	3216.1	
1	0545	70	25114.	2259.4	3216.0	
1	0550	71	24118.	2250.7	3215.9	
1	0555	72	23236.	2243.0	3215.8	
1	0600	73	22427.	2235.9	3215.7	
1	0605	74	21631.	2228.9	3215.6	
1	0610	75	20791.	2221.5	3215.5	
1	0615	76	19860.	2213.3	3215.4	
1	0620	77	18810.	2204.1	3215.2	
1	0625	78	17637.	2193.8	3215.1	
1	0630	79	16358.	2182.6	3214.9	
1	0635	80	15003.	2170.7	3214.8	
1	0640	81	13615.	2158.5	3214.6	
1	0645	82	12237.	2146.4	3214.4	
1	0650	83	10909.	2134.8	3214.3	
1	0655	84	9662.	2123.8	3214.1	
1	0700	85	8549.	2113.7	3214.0	
1	0705	86	7749.	2103.5	3213.8	
1	0710	87	6928.	2093.0	3213.7	
1	0715	88	6135.	2082.9	3213.6	
1	0720	89	5394.	2073.4	3213.4	
1	0725	90	4716.	2064.8	3213.3	
1	0730	91	4103.	2057.0	3213.2	
1	0735	92	3551.	2050.0	3213.1	
1	0740	93	3059.	2043.7	3213.0	
1	0745	94	2621.	2038.1	3212.9	
1	0750	95	2234.	2033.2	3212.9	
1	0755	96	1896.	2028.8	3212.8	
1	0800	97	1601.	2025.1	3212.8	
1	0805	98	1346.	2021.8	3212.7	
1	0810	99	1127.	2019.1	3212.7	
1	0815	100	942.	2016.7	3212.6	
1	0820	101	784.	2014.7	3212.6	
1	0825	102	652.	2013.0	3212.6	
1	0830	103	540.	2011.6	3212.6	
1	0835	104	447.	2010.4	3212.5	
1	0840	105	370.	2009.4	3212.5	
1	0845	106	305.	2008.6	3212.5	
1	0850	107	252.	2007.9	3212.5	
1	0855	108	207.	2007.3	3212.5	
1	0900	109	182.	2006.8	3212.5	
1	0905	110	182.	2006.2	3212.5	
1	0910	111	182.	2005.5	3212.5	
1	0915	112	182.	2004.7	3212.5	
1	0920	113	182.	2003.8	3212.5	
1	0925	114	182.	2002.9	3212.4	
1	0930	115	182.	2001.8	3212.4	
1	0935	116	182.	2000.7	3212.4	
1	0940	117	182.	1999.6	3212.4	
1	0945	118	182.	1998.5	3212.4	
1	0950	119	182.	1997.3	3212.4	
1	0955	120	182.	1996.1	3212.3	
1	1000	121	182.	1994.9	3212.3	
1	1005	122	182.	1993.7	3212.3	
1	1010	123	182.	1992.4	3212.3	
1	1015	124	182.	1991.2	3212.3	
1	1020	125	181.	1990.0	3212.2	
1	1025	126	181.	1988.7	3212.2	
1	1030	127	181.	1987.5	3212.2	
1	1035	128	181.	1986.2	3212.2	
1	1040	129	181.	1985.0	3212.2	
1	1045	130	181.	1983.7	3212.1	
1	1050	131	181.	1982.5	3212.1	
1	1055	132	181.	1981.3	3212.1	
1	1100	133	181.	1980.0	3212.1	
1	1105	134	181.	1978.8	3212.1	
1	1110	135	181.	1977.5	3212.1	
1	1115	136	181.	1976.3	3212.0	
1	1120	137	181.	1975.0	3212.0	
1	1125	138	181.	1973.8	3212.0	
1	1130	139	181.	1972.5	3212.0	
1	1135	140	181.	1971.3	3212.0	
1	1140	141	181.	1970.0	3211.9	
1	1145	142	181.	1968.8	3211.9	
1	1150	143	181.	1967.5	3211.9	
1	1155	144	181.	1966.3	3211.9	
1	1200	145	181.	1965.1	3211.9	
1	1205	146	181.	1963.8	3211.8	
1	1210	147	181.	1962.6	3211.8	
1	1215	148	181.	1961.3	3211.8	
1	1220	149	181.	1960.1	3211.8	
1	1225	150	181.	1958.8	3211.8	
1	1230	151	180.	1957.6	3211.7	
1	1235	152	180.	1956.3	3211.7	
1	1240	153	180.	1955.1	3211.7	
1	1245	154	180.	1953.9	3211.7	
1	1250	155	180.	1952.6	3211.7	
1	1255	156	180.	1951.4	3211.6	
1	1300	157	180.	1950.1	3211.6	
1	1305	158	180.	1948.9	3211.6	
1	1310	159	180.	1947.7	3211.6	
1	1315	160	180.	1946.4	3211.6	
1	1320	161	180.	1945.2	3211.5	
1	1325	162	180.	1943.9	3211.5	
1	1330	163	180.	1942.7	3211.5	
1	1335	164	180.	1941.5	3211.5	
1	1340	165	180.	1940.2	3211.5	
1	1345	166	180.	1939.0	3211.4	
1	1350	167	180.	1937.7	3211.4	
1	1355	168	180.	1936.5	3211.4	
1	1400	169	180.	1935.3	3211.4	
1	1405	170	180.	1934.0	3211.4	
1	1410	171	180.	1932.8	3211.3	
1	1415	172	180.	1931.5	3211.3	
1	1420	173	180.	1930.3	3211.3	
1	1425	174	180.	1929.1	3211.3	
1	1430	175	180.	1927.8	3211.3	
1	1435	176	179.	1926.6	3211.2	
1	1440	177	179.	1925.4	3211.2	
1	1445	178	179.	1924.1	3211.2	
1	1450	179	179.	1922.9	3211.2	
1	1455	180	179.	1921.7	3211.2	
1	1500	181	179.	1920.4	3211.1	
1	1505	182	179.	1919.2	3211.1	
1	1510	183	179.	1918.0	3211.1	
1	1515	184	179.	1916.7	3211.1	
1	1520	185	179.	1915.5	3211.1	
1	1525	186	179.	1914.3	3211.1	
1	1530	187	179.	1913.0	3211.0	
1	1535	188	179.	1911.8	3211.0	
1	1540	189	179.	1910.6	3211.0	
1	1545	190	179.	1909.3	3211.0	
1	1550	191	179.	1908.1	3211.0	
1	1555	192	179.	1906.9	3210.9	
1	1600	193	179.	1905.6	3210.9	
1	1605	194	179.	1904.4	3210.9	
1	1610	195	179.	1903.2	3210.9	
1	1615	196	179.	1901.9	3210.9	
1	1620	197	179.	1900.7	3210.8	
1	1625	198	179.	1899.5	3210.8	
1	1630	199	179.	1898.2	3210.8	
1	1635	200	179.	1897.0	3210.8	
1	1640	201	179.	1895.8	3210.8	
1	1645	202	178.	1894.6	3210.7	
1	1650	203	178.	1893.3	3210.7	
1	1655	204	178.	1892.1	3210.7	
1	1700	205	178.	1890.9	3210.7	
1	1705	206	178.	1889.6	3210.7	
1	1710	207	178.	1888.4	3210.6	
1	1715	208	178.	1887.2	3210.6	
1	1720	209	178.	1886.0	3210.6	
1	1725	210	178.	1884.7	3210.6	
1	1730	211	178.	1883.5	3210.6	
1	1735	212	178.	1882.3	3210.5	
1	1740	213	178.	1881.0	3210.5	
1	1745	214	178.	1879.8	3210.5	
1	1750	215	178.	1878.6	3210.5	
1	1755	216	178.	1877.4	3210.5	
1	1800	217	178.	1876.1	3210.4	
1	1805	218	178.	1874.9	3210.4	
1	1810	219	178.	1873.7	3210.4	
1	1815	220	178.	1872.5	3210.4	
1	1820	221	178.	1871.2	3210.4	
1	1825	222	178.	1870.0	3210.3	
1	1830	223	178.	1868.8	3210.3	
1	1835	224	178.	1867.6	3210.3	
1	1840	225	178.	1866.3	3210.3	
1	1845	226	178.	1865.1	3210.3	
1	1850	227	178.	1863.9	3210.3	
1	1855	228	177.	1862.7	3210.2	
1	1900	229	177.	1861.5	3210.2	
1	1905	230	177.	1860.2	3210.2	
1	1910	231	177.	1859.0	3210.2	
1	1915	232	177.	1857.8	3210.2	
1	1920	233	177.	1856.6	3210.1	
1	1925	234	177.	1855.4	3210.1	
1	1930	235	177.	1854.1	3210.1	
1	1935	236	177.	1852.9	3210.1	
1	1940	237	177.	1851.7	3210.1	
1	1945	238	177.	1850.5	3210.0	
1	1950	239	177.	1849.3	3210.0	
1	1955	240	177.	1848.0	3210.0	
1	2000	241	177.	1846.8	3210.0	
1	2005	242	177.	1845.6	3210.0	
1	2010	243	177.	1844.4	3209.9	
1	2015	244	177.	1843.2	3209.9	
1	2020	245	177.	1841.9	3209.9	
1	2025	246	177.	1840.7	3209.9	
1	2030	247	177.	1839.5	3209.9	
1	2035	248	177.	1838.3	3209.8	
1	2040	249	177.	1837.1	3209.8	
1	2045	250	177.	1835.9	3209.8	
1	2050	251	177.	1834.6	3209.8	
1	2055	252	177.	1833.4	3209.8	
1	2100	253	176.	1832.2	3209.7	
1	2105	254	176.	1831.0	3209.7	
1	2110	255	176.	1829.8	3209.7	
1	2115	256	176.	1828.6	3209.7	
1	2120	257	176.	1827.3	3209.7	
1	2125	258	176.	1826.1	3209.7	
1	2130	259	176.	1824.9	3209.6	
1	2135	260	176.	1823.7	3209.6	
1	2140	261	176.	1822.5	3209.6	
1	2145	262	176.	1821.3	3209.6	
1	2150	263	176.	1820.1	3209.6	
1	2155	264	176.	1818.9	3209.5	
1	2200	265	176.	1817.6	3209.5	
1	2205	266	176.	1816.4	3209.5	
1	2210	267	176.	1815.2	3209.5	
1	2215	268	176.	1814.0	3209.5	
1	2220	269	176.	1812.8	3209.4	
1	2225	270	176.	1811.6	3209.4	
1	2230	271	176.	1810.4	3209.4	
1	2235	272	176.	1809.2	3209.4	
1	2240	273	176.	1808.0	3209.4	
1	2245	274	176.	1806.7	3209.3	
1	2250	275	176.	1805.5	3209.3	
1	2255	276	176.	1804.3	3209.3	
1	2300	277	176.	1803.1	3209.3	
1	2305	278	176.	1801.9	3209.3	
1	2310	279	175.	1800.7	3209.2	
1	2315	280	175.	1799.5	3209.2	
1	2320	281	175.	1798.3	3209.2	
1	2325	282	175.	1797.1	3209.2	
1	2330	283	175.	1795.9	3209.2	
1	2335	284	175.	1794.7	3209.2	
1	2340	285	175.	1793.4	3209.1	
1	2345	286	175.	1792.2	3209.1	
1	2350	287	175.	1791.0	3209.1	
1	2355	288	175.	1789.8	3209.1	
1	0000	289	175.	1788.6	3209.1	
1	0005	290	175.	1787.4	3209.0	
1	0010	291	175.	1786.2	3209.0	
1	0015	292	175.	1785.0	3209.0	
1	0020	293	175.	1783.8	3209.0	
1	0025	294	175.	1782.6	3209.0	
1	0030	295	175.	1781.4	3208.9	
1	0035	296	175.	1780.2	3208.9	
1	0040	297	175.	1779.0	3208.9	
1	0045	298	175.	1777.8	3208.9	
1	0050	299	175.	1776.6	3208.9	
1	0055	300	175.	1775.4	3208.8	

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)				
		(CFS)			
34409.	5.00	11023.	2877.	2772.	2772.
		(INCHES)	1.873	1.955	1.955	1.955
		(AC-FT)	5466.	5707.	5707.	5707.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
(AC-FT)	(HR)				
2336.	5.00	2118.	1749.	1684.	1684.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
(FEET)	(HR)				
3217.07	5.00	3214.03	3206.98	3205.30	3205.30

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .80

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000	1	0.	.0	3161.0	
1	0005	2	0.	.0	3161.0	
1	0010	3	0.	.0	3161.0	
1	0015	4	0.	.0	3161.0	
1	0020	5	0.	.1	3161.0	
1	0025	6	0.	.3	3161.0	
1	0030	7	1.	1.0	3161.1	
1	0035	8	2.	2.2	3161.2	
1	0040	9	4.	3.6	3161.4	
1	0045	10	6.	5.2	3161.6	
1	0050	11	8.	6.9	3161.8	
1	0055	12	10.	8.9	3162.0	
1	0100	13	11.	11.3	3162.1	
1	0105	14	12.	14.2	3162.3	
1	0110	15	14.	17.7	3162.4	
1	0115	16	16.	22.1	3162.7	
1	0120	17	19.	27.5	3162.9	
1	0125	18	22.	34.2	3163.3	
1	0130	19	26.	42.4	3163.7	
1	0135	20	31.	52.2	3164.2	
1	0140	21	36.	64.0	3164.8	
1	0145	22	43.	77.6	3165.5	
1	0150	23	50.	93.2	3166.3	
1	0155	24	58.	110.5	3167.1	
1	0200	25	61.	129.6	3167.9	
1	0205	26	65.	150.5	3168.8	
1	0210	27	69.	173.2	3169.7	
1	0215	28	74.	197.4	3170.6	
1	0220	29	78.	222.8	3171.7	
1	0225	30	82.	249.4	3172.7	
1	0230	31	86.	277.1	3173.6	
1	0235	32	90.	306.4	3174.7	
1	0240	33	94.	337.2	3175.8	
1	0245	34	99.	369.8	3176.9	
1	0250	35	102.	404.3	3178.0	
1	0255	36	106.	441.0	3179.2	
1	0300	37	109.	480.3	3180.4	
1	0305	38	113.	522.2	3181.8	
1	0310	39	117.	567.2	3183.1	
1	0315	40	121.	615.7	3184.5	
1	0320	41	125.	668.3	3186.0	
1	0325	42	129.	725.8	3187.5	
1	0330	43	133.	789.5	3189.1	
1	0335	44	137.	860.8	3190.9	
1	0340	45	142.	938.3	3192.8	
1	0345	46	146.	1020.3	3194.6	
1	0350	47	150.	1107.3	3196.6	
1	0355	48	154.	1202.0	3198.5	
1	0400	49	159.	1306.5	3200.6	
1	0405	50	163.	1421.5	3202.8	
1	0410	51	167.	1547.6	3205.0	
1	0415	52	172.	1685.7	3207.4	
1	0420	53	176.	1832.2	3209.7	
1	0425	54	7616.	2101.8	3213.8	
1	0430	55	18338.	2200.0	3215.2	
1	0435	56	24476.	2253.8	3215.9	
1	0440	57	28205.	2286.6	3216.4	
1	0445	58	30716.	2308.6	3216.7	
1	0450	59	32459.	2323.9	3216.9	
1	0455	60	33753.	2333.2	3217.0	
1	0500	61	34409.	2336.3	3217.1	
1	0505	62	34051.	2334.6	3217.1	
1	0510	63	33220.	2330.6	3217.0	
1	0515	64	32455.	2323.9	3216.9	
1	0520	65	31372.	2314.3	3216.8	
1	0525	66	30112.	2303.3	3216.6	
1	0530	67	28785.	2291.6	3216.5	
1	0535	68	27474.	2280.1	3216.3	
1	0540	69	26238.	2269.3	3216.1	
1	0545	70	25114.	2259.4	3216.0	
1	0550	71	24118.	2250.7	3215.9	
1	0555	72	23236.	2243.0	3215.8	
1	0600	73	22427.	2235.9	3215.7	
1	0605	74	21631.	2228.9	3215.6	
1	0610	75	20791.	2221.5	3215.5	
1	0615	76	19860.	2213.3	3215.4	
1	0620	77	18810.	2204.1	3215.2	
1	0625	78	17637.	2193.8	3215.1	
1	0630	79	16358.	2182.6	3214.9	
1	0635	80	15003.	2170.7	3214.8	
1	0640	81	13615.	2158.5	3214.6	
1	0645	82	12237.	2146.4	3214.4	
1	0650	83	10909.	2134.8	3214.3	
1	0655	84	9662.	2123.8	3214.1	
1	0700	85	8549.	2113.7	3214.0	
1	0705	86	7749.	2103.5	3213.8	
1	0710	87	6928.	2093.0	3213.7	
1	0715	88	6135.	2082.9	3213.6	
1	0720	89	5394.	2073.4	3213.4	
1	0725	90	4716.	2064.8	3213.3	
1	0730	91	4103.	2057.0	3213.2	
1	0735	92	3551.	2050.0	3213.1	
1	0740	93	3059.	2043.7	3213.0	
1	0745	94	2621.	2038.1	3212.9	
1	0750	95	2234.	2033.2	3212.9	
1	0755	96	1896.	2028.8	3212.8	
1	0800	97	1601.	2025.1	3212.8	
1	0805	98	1346.	2021.8	3212.7	
1	0810	99	1127.	2019.1	3212.7	
1	0815	100	942.	2016.7	3212.6	
1	0820	101	754.	2014.3	3212.6	
1	0825	102	626.	2012.7	3212.6	
1	0830	103	519.	2011.3	3212.6	
1	0835	104	430.	2010.2	3212.5	
1	0840	105	356.	2009.2	3212.5	
1	0845	106	294.	2008.4	3212.5	
1	0850	107	242.	2007.8	3212.5	
1	0855	108	199.	2007.2	3212.5	
1	0900	109	182.	2006.7	3212.5	
1	0905	110	182.	2006.1	3212.5	
1	0910	111	182.	2005.4	3212.5	
1	0915	112	182.	2004.6	3212.5	
1	0920	113	182.	2003.6	3212.4	
1	0925	114	182.	2002.7	3212.4	
1	0930	115	182.	2001.6	3212.4	
1	0935	116	182.	2000.5	3212.4	
1	0940	117	182.	1999.4	3212.4	
1	0945	118	182.	1998.2	3212.4	
1	0950	119	182.	1997.1	3212.3	
1	0955	120	182.	1995.9	3212.3	
1	1000	121	182.	1994.7	3212.3	
1	1005	122	182.	1993.4	3212.3	
1	1010	123	182.	1992.2	3212.3	
1	1015	124	182.	1991.0	3212.3	
1	1020	125	181.	1989.7	3212.2	
1	1025	126	181.	1988.5	3212.2	
1	1030	127	181.	1987.3	3212.2	
1	1035	128	181.	1986.0	3212.2	
1	1040	129	181.	1984.8	3212.2	
1	1045	130	181.	1983.5	3212.1	
1	1050	131	181.	1982.3	3212.1	
1	1055	132	181.	1981.0	3212.1	
1	1100	133	181.	1979.8	3212.1	
1	1105	134	181.	1978.5	3212.1	
1	1110	135	181.	1977.3	3212.0	
1	1115	136	181.	1976.0	3212.0	
1	1120	137	181.	1974.8	3212.0	
1	1125	138	181.	1973.5	3212.0	
1	1130	139	181.	1972.3	3212.0	
1	1135	140	181.	1971.1	3212.0	
1	1140	141	181.	1969.8	3211.9	
1	1145	142	181.	1968.6	3211.9	
1	1150	143	181.	1967.3	3211.9	
1	1155	144	181.	1966.1	3211.9	
1	1200	145	181.	1964.8	3211.9	
1	1205	146	181.	1963.6	3211.8	
1	1210	147	181.	1962.3	3211.8	
1	1215	148	181.	1961.1	3211.8	
1	1220	149	181.	1959.8	3211.8	
1	1225	150	181.	1958.6	3211.8	
1	1230	151	180.	1957.4	3211.7	
1	1235	152	180.	1956.1	3211.7	
1	1240

1	0420	53	177.	1836.7	3209.8	*	1	1240	153	180.	1954.9	3211.7	*	1	2100	253	176.	1832.0	3209.7	1	0105	14	11.	11.8	3162.1	*	1	0925	114	182.	2002.4	3212.4	*	1	1745	214	178.	1879.3	3210.5
1	0425	54	182.	2000.9	3212.4	*	1	1245	154	180.	1953.6	3211.7	*	1	2105	254	176.	1830.8	3209.7	1	0110	15	13.	14.7	3162.3	*	1	0930	115	182.	2001.3	3212.4	*	1	1750	215	178.	1878.1	3210.5
1	0430	55	11464.	2139.7	3214.3	*	1	1250	155	180.	1952.4	3211.7	*	1	2110	255	176.	1829.6	3209.7	1	0115	16	14.	18.4	3162.5	*	1	0935	116	182.	2000.2	3212.4	*	1	1755	216	178.	1876.8	3210.5
1	0435	56	20718.	2220.9	3215.5	*	1	1255	156	180.	1951.2	3211.6	*	1	2115	256	176.	1828.3	3209.7	1	0120	17	17.	22.9	3162.7	*	1	0940	117	182.	1999.1	3212.4	*	1	1800	217	178.	1875.6	3210.4
1	0440	57	25765.	2265.1	3216.1	*	1	1300	157	180.	1949.9	3211.6	*	1	2120	257	176.	1827.1	3209.7	1	0125	18	19.	28.5	3163.0	*	1	0945	118	182.	1997.9	3212.4	*	1	1805	218	178.	1874.4	3210.4
1	0445	58	28821.	2292.0	3216.5	*	1	1305	158	180.	1948.7	3211.6	*	1	2125	258	176.	1825.9	3209.6	1	0130	19	23.	35.3	3163.3	*	1	0950	119	182.	1996.7	3212.3	*	1	1810	219	178.	1873.2	3210.4
1	0450	59	30780.	2309.2	3216.7	*	1	1310	159	180.	1947.4	3211.6	*	1	2130	259	176.	1824.7	3209.6	1	0135	20	27.	43.7	3163.8	*	1	0955	120	182.	1995.5	3212.3	*	1	1815	220	178.	1871.9	3210.4
1	0455	60	31997.	2319.8	3216.8	*	1	1315	160	180.	1946.2	3211.6	*	1	2135	260	176.	1823.5	3209.6	1	0140	21	31.	53.7	3164.3	*	1	1000	121	182.	1994.3	3212.3	*	1	1820	221	178.	1870.7	3210.4
1	0500	61	32567.	2324.8	3216.9	*	1	1320	161	180.	1944.9	3211.5	*	1	2140	261	176.	1822.3	3209.6	1	0145	22	37.	65.4	3164.9	*	1	1005	122	182.	1993.1	3212.3	*	1	1825	222	178.	1869.5	3210.3
1	0505	62	32534.	2324.5	3216.9	*	1	1325	162	180.	1943.7	3211.5	*	1	2145	262	176.	1821.1	3209.6	1	0150	23	43.	78.7	3165.6	*	1	1010	123	182.	1991.9	3212.3	*	1	1830	223	178.	1868.3	3210.3
1	0510	63	32016.	2320.0	3216.8	*	1	1330	163	180.	1942.5	3211.5	*	1	2150	263	176.	1819.8	3209.6	1	0155	24	51.	93.6	3166.3	*	1	1015	124	182.	1990.7	3212.3	*	1	1835	224	178.	1867.0	3210.3
1	0515	64	31157.	2312.5	3216.7	*	1	1335	164	180.	1941.2	3211.5	*	1	2155	264	176.	1818.6	3209.5	1	0200	25	58.	110.1	3167.1	*	1	1020	125	181.	1989.4	3212.2	*	1	1840	225	178.	1865.8	3210.3
1	0520	65	30070.	2302.9	3216.6	*	1	1340	165	180.	1940.0	3211.5	*	1	2200	265	176.	1817.4	3209.5	1	0205	26	61.	128.4	3167.9	*	1	1025	126	181.	1988.2	3212.2	*	1	1845	226	178.	1864.6	3210.3
1	0525	66	28847.	2292.2	3216.5	*	1	1345	166	180.	1938.7	3211.4	*	1	2205	266	176.	1816.2	3209.5	1	0210	27	65.	148.2	3168.7	*	1	1030	127	181.	1986.9	3212.2	*	1	1850	227	177.	1863.4	3210.2
1	0530	67	27575.	2281.0	3216.3	*	1	1350	167	180.	1937.5	3211.4	*	1	2210	267	176.	1815.0	3209.5	1	0215	28	69.	169.4	3169.5	*	1	1035	128	181.	1985.7	3212.2	*	1	1855	228	177.	1862.1	3210.2
1	0535	68	26322.	2270.0	3216.2	*	1	1355	168	180.	1936.3	3211.4	*	1	2215	268	176.	1813.8	3209.5	1	0220	29	73.	191.8	3170.4	*	1	1040	129	181.	1984.4	3212.2	*	1	1900	229	177.	1860.9	3210.2
1	0540	69	25143.	2259.7	3216.0	*	1	1400	169	180.	1935.0	3211.4	*	1	2220	269	176.	1812.6	3209.4	1	0225	30	77.	215.3	3171.4	*	1	1045	130	181.	1983.2	3212.1	*	1	1905	230	177.	1859.7	3210.2
1	0545	70	24072.	2250.3	3215.9	*	1	1405	170	180.	1933.8	3211.4	*	1	2225	270	176.	1811.4	3209.4	1	0230	31	81.	240.0	3172.3	*	1	1050	131	181.	1982.0	3212.1	*	1	1910	231	177.	1858.5	3210.2
1	0550	71	23123.	2242.0	3215.8	*	1	1410	171	180.	1932.6	3211.3	*	1	2230	271	176.	1810.2	3209.4	1	0235	32	85.	266.0	3173.2	*	1	1055	132	181.	1980.7	3212.1	*	1	1915	232	177.	1857.3	3210.1
1	0555	72	22284.	2234.6	3215.7	*	1	1415	172	180.	1931.3	3211.3	*	1	2235	272	176.	1808.9	3209.4	1	0240	33	88.	293.6	3174.2	*	1	1100	133	181.	1979.5	3212.1	*	1	1920	233	177.	1856.0	3210.1
1	0600	73	21513.	2227.8	3215.6	*	1	1420	173	180.	1930.1	3211.3	*	1	2240	273	176.	1807.7	3209.4	1	0245	34	92.	322.9	3175.3	*	1	1105	134	181.	1978.2	3212.1	*	1	1925	234	177.	1854.8	3210.1
1	0605	74	20755.	2221.2	3215.5	*	1	1425	174	180.	1928.8	3211.3	*	1	2245	274	176.	1806.5	3209.3	1	0250	35	97.	354.0	3176.4	*	1	1110	135	181.	1977.0	3212.0	*	1	1930	235	177.	1853.6	3210.1
1	0610	75	19953.	2214.1	3215.4	*	1	1430	175	180.	1927.6	3211.3	*	1	2250	275	176.	1805.3	3209.3	1	0255	36	100.	387.1	3177.5	*	1	1115	136	181.	1975.7	3212.0	*	1	1935	236	177.	1852.4	3210.1
1	0615	76	19063.	2206.3	3215.3	*	1	1435	176	179.	1926.4	3211.2	*	1	2255	276	176.	1804.1	3209.3	1	0300	37	104.	422.6	3178.6	*	1	1120	137	181.	1974.5	3212.0	*	1	1940	237	177.	1851.2	3210.1
1	0620	77	18058.	2197.5	3215.1	*	1	1440	177	179.	1925.1	3211.2	*	1	2300	277	176.	1802.9	3209.3	1	0305	38	107.	460.7	3179.8	*	1	1125	138	181.	1973.2	3212.0	*	1	1945	238	177.	1849.9	3210.0
1	0625	78	16934.	2187.7	3215.0	*	1	1445	178	179.	1923.9	3211.2	*	1	2305	278	176.	1801.7	3209.3	1	0310	39	111.	501.5	3181.1	*	1	1130	139	181.	1972.0	3212.0	*	1	1950	239	177.	1848.7	3210.0
1	0630	79	15708.	2176.9	3214.9	*	1	1450	179	179.	1922.7	3211.2	*	1	2310	279	175.	1800.5	3209.2	1	0315	40	115.	545.7	3182.5	*	1	1135	140	181.	1970.7	3211.9	*	1	1955	240	177.	1847.5	3210.0
1	0635	80	14408.	2165.5	3214.7	*	1	1455	180	179.	1921.4	3211.2	*	1	2315	280	175.	1799.3	3209.2	1	0320	41	119.	593.8	3183.8	*	1	1140	141	181.	1969.5	3211.9	*	1	2000	241	177.	1846.3	3210.0
1	0640	81	13077.	2153.8	3214.5	*	1	1500	181	179.	1920.2	3211.1	*	1	2320	281	175.	1798.1	3209.2	1	0325	42	123.	646.4	3185.3	*	1	1145	142	181.	1968.2	3211.9	*	1	2005	242	177.	1845.1	3210.0
1	0645	82	11754.	2142.2	3214.4	*	1	1505	182	179.	1919.0	3211.1	*	1	2325	282	175.	1796.8	3209.2	1	0330	43	128.	704.9	3187.0	*	1	1150	143	181.	1967.0	3211.9	*	1	2010	243	177.	1843.8	3209.9
1	0650	83	10480.	2131.0	3214.2	*	1	1510	183	179.	1917.7	3211.1	*	1	2330	283	175.	1795.6	3209.2	1	0335	44	132.	770.5	3188.7	*	1	1155	144	181.	1965.7	3211.9	*	1	2015	244	177.	1842.6	3209.9
1	0655	84	9282.	2120.5	3214.1	*	1	1515	184	179.	1916.5	3211.1	*	1	2335	284	175.	1794.4	3209.1	1	0340	45	136.	842.0	3190.5	*	1	1200	145	181.	1964.5	3211.8	*	1	2020	245	177.	1841.4	3209.9
1	0700	85	8297.	2110.4	3213.9	*	1	1520	185	179.	1915.3	3211.1	*	1	2340	285	175.	1793.2	3209.1	1	0345	46	141.	917.7	3192.3	*	1	1205	146	181.	1963.3	3211.8	*	1	2025	246	177.	1840.2	3209.9
1	0705	86	7493.	2100.2	3213.8	*	1	1525	186	179.	1914.0	3211.0	*	1	2345	286	175.	1792.0	3209.1	1	0350	47	145.	998.0	3194.1	*	1	1210	147	181.	1962.0	3211.8	*	1	2030	247	177.	1839.0	3209.9
1	0710	87	6684.	2089.9	3213.7	*	1	1530	187	179.	1912.8	3211.0	*	1	2350	287	175.	1790.8	3209.1	1	0355	48	149.	1085.7	3196.1	*	1	1215	148	181.	1960.8	3211.8	*	1	2035	248	177.	1837.8	3209.8
1	0715	88	5911.	2080.0	3213.5	*	1	1535	188	179.	1911.6	3211.0	*	1	2355	288	175.	1789.6	3209.1	1	0400	49	154.	1182.5	3198.1	*	1	1220	149	181.	1959.5	3211.8	*	1	2040	249	177.	1836.5	3209.8
1	0720	89	5193.	2070.9	3213.4	*	1	1540	189	179.	1910.3	3211.0	*	2	0000	289	175.	1788.4	3209.1	1	0405	50	158.	1289.1	3200.3	*	1	1225	150	181.	1958.3	3211.8	*	1	2045	250	177.	1835.3	3209.8
1	0725	90	4538.	2062.5	3213.3	*	1	1545	190	179.	1909.1	3211.0	*	2	0005	290	175.	1787.2	3209.0	1	0410	51	163.	1406.2	3202.5	*	1	1230	151	180.	1957.0	3211.7	*	1	2050	251	177.	1834.1	3209.8
1	0730	91	3946.	2055.0	3213.2	*	1	1550	191	179.	1907.9	3211.0	*	2	0010	291	175.	1786.0	3209.0	1	0415	52	167.	1534.5	3204.8	*	1	1235	152	180.	1955.8	3211.7	*	1	2055	252	177.	1832.9	3209.8
1	0735	92	3415.	2048.2	3213.1	*	1	1555	192	179.	1906.6	3210.9	*	2	0015	292	175.	1784.8	3209.0	1	0420	53	172.	1675.0	3207.3	*	1	1240	153	180.	1954.6	3211.7	*	1	2100	253	176.	1831.7	3209.7
1	0740	93	2941.	2042.2	3213.0	*	1	1600	193	179.	1905.4	3210.9	*	2	0020	293	175.	1783.6	3209.0	1	0425	54	176.	1827.9	3209.7	*	1	1245	154	180.	1953.3	3211.7	*	1	2105	254	176.	1830.5	3209.7
1	0745	94	2520.	2036.8	3212.9	*	1	1605	194	179.	1904.2	3210.9	*	2	0025	294	175.	1782.4	3209.0	1	0430	55	182.	1993.4	3212.3	*	1	1250	155	180.	1952.1	3211.7	*	1	2110	255	176.	1829.2	3209.7
1	0750	95	2148.	2032.1	3212.8	*	1	1610	195	179.	1902.9	3210.9	*	2	0030	295	175.	1781.2	3208.9	1	0435	56	10872.	2134.5	3214.3	*	1	1255	156	180.	1950.8	3211.6	*	1	2115	256	176.	1828.0	3209.7
1	0755	96	1822.	2027.9	3212.8	*	1	1615	196	179.	1901.7	3210.9	*	2	0035	296	175.	1780.0	3208.9	1	0440	57	20360.	2217.7	3215.4	*	1	1300	157	180.	1949.6	3211.6	*	1	2120	257	176.	1826.8	3209.7
1	0800	97	1539.	2024.3	3212.7	*	1	1620	197	179.	1900.5	3210.8	*	2	0040	297	175.	1778.8	3208.9	1	0445	58	25308.	2261.1	3216.0	*	1	1305	158	180.	1948.3	3211.6	*	1	2125	258	176.	1825.6	3209.6
1	0805	98	1294.	2021.2	3212.7	*	1	1625	198	179.	1899.2	3210.8	*	2	0045	298	175.	1777.6	3208.9	1	0450	59	28063.	2285.3	3216.4	*	1	1310	159	180.	1947.1	3211.6	*	1	2130	259	176.	1824.4	3209.6
1	0810	99	1084.	2018.5	3212.7	*	1	1630	199	179.	1898.0	3210.8	*	2	0050	299	175.	1776.4	3208.9	1	0455	60	29614.	2298.9	3216.6	*	1	1315	160	180.	1945.9	3211.6	*	1	2135	260	176.	1823.2	3209.6
1	0815	100	905.	2016.2	3212.6	*	1	1635	200	179.	1896.8	3210.8	*	2	0055	300	175.	1775.2	3208.8	1	0500	61	30336.	2305.3	3216.6	*	1	1320	161	180.	1944.6	3211.5	*	1	2140	261	176.	1822.0	3209.6
						*							*							1	0505	62	30398.	2305.8	3216.6	*	1	1325	162	180.	1943.4	3211.5	*	1	2145	262	176.	1820.7	3209.6
																				1	0510	63	29961.	2302.0	3216.6	*	1	1330	163	180.	1942.1	3211.5	*	1	2150	263	176.	1819.5	3209.5
																				1	0515	64	29185.	2295.2	3216.5	*	1	1335	164	180.	1940.9	3211.5	*	1	2155	264	176.	1818.3	3209.5
																				1	0520	65	28186.	2286.4	3216.4	*	1	1340	165	180.	1939.7	3211.5	*	1	2200	265	176.	1817.1	3209.5
																				1	0525	66	27056.	2276.5	3216.2	*	1	1345	166	180.	1938.4	3211.4	*	1	2205	266	176.	1815.9	3209.5
																				1	0530	67	25874.	2266.1	3216.1	*	1	1350	167	180.	1937.2	3211.4	*	1	2210	267	176.	1814.7	3209.5
																				1	0535	68	24711.	2255.9	3216.0	*	1	1355	168	180.	1936.0	3211.4	*	1	2215	268	176.	1813.5	3209.5
																				1	0540	69	23615.	2246.3	3215.8	*	1	1400	169	180.	1934.7	3211.4	*	1	2220	269	176.	1812.3	3209.4
																				1	0545	70	22619.	2237.5	3215.7	*	1	1405	170	180.	1933.5	3211.4	*	1	2225	270	176.	1811.1	3209.4
																				1	0550	71	21737.	2229.8	3215.6	*	1	1410	171	180.	1932.2	3211.3	*	1	2230	271	176.	1809.8	3209.4
																				1	0555	72	20956.	2222.9	3215.5	*	1	1415	172	180.	1931.0	3211.3	*	1	2235	272	176.	1808.6	3209.4
																				1	0600	73	20239.	2216.7	3215.4	*	1	1420	173	180.	1929.8	3211.3	*	1	2240	273	176.	1807.4	3209.4
																				1	0605	74	19533.	2210.5	3215.3	*	1	1425	174	180.	1928.5	3211.3	*	1	2245	274	176.	1806.2	3209.3
																				1	0610	75	18784.	2203.9	3215.2	*	1	1430	175	180.	1927.3	3211.3	*	1	2250	275	176.	1805.0	3209.3
																				1	0615	76	17951.	2196.6	3215.1	*	1	1435	176	179.	1926.1	3211.2	*	1	2255	276	176.	1803.8	3209.3
																				1	0620	77	17009.	2188.3	3215.0	*	1	1440	177	179.	1924.8	3211.2	*	1	2300	277	176.	1802.6	3209.3
																				1	0625	78	15954.	2179.1	3214.9	*	1	1445	178	179.	1923.6	3211.2	*	1	2305	278	176.	1801.4	3209.3
																				1	0630	79	14801.	2168.9	3214.7	*	1	1450	179	179.	1922.3	3211.2	*	1	2310	279	175.	1800.2	3209.2
																				1	0635	80	13579.	2158.2	3214.6	*	1	1455	180	179.	1921.1	3211.2	*	1	2315	280	175.	1799.0	3209.2
																				1	0640	81	12326.	2147.2	3214.4	*	1	1500	181	179.	1919.9	3211.1	*	1	2320	281	175.	1797.7	3209.2
																				1	0645	82	11081.	2136.3	3214.3	*	1	1505	182	179.	1918.6	3211.1	*	1	2325	282	175.	1796.5	3209.2
																				1	0650	83	9881.	2125.8	3214.1	*	1	1510	183	179.	1917.4	3211.1	*	1	2330	283	175.	1795.3	3209.2
																				1	0655	84	8753.	2115.9	3214.0	*	1	1515	184	179.	1916.2	3211.1	*	1	2335	284	175.	1794.1	3209.1
																				1	0700	85	7945.	2106.0	3213.9	*	1	1520	185	179.	1914.9	3211.1	*	1	2340	285	175.	1792.9	3209.1
																				1	0705	86	7136.	2095.7	3213.7	*	1	1525	186	179.	1913.7	3211.0	*	1	2345	286	175.	1791.7	3209.1
																				1	0710	87	6344.	2085.6	3213.6	*	1	1530	187	179.	1912.5	3211.0	*	1	2350	287	175.	1790.5	3209.1
																				1	0715	88	5598.	2076.0	3213.5	*	1	1535	188	179.	1911.2	3211.0	*	1	2355	288	175.	1789.3	3209.1
																				1	0720	89	4912.	2067.3	3213.3	*	1	1540	189	179.	1910.0	3211.0	*	2	0000	289	175.	1788.1	3209.0
																				1	0725	90	4288.	2059.3	3213.2	*	1	1545	190	179.	1908.8	3211.0	*	2	0005	290	175.	1786.9	3209.0
																				1	0730	91	3727.	2052.2	3213.1	*	1	1550	191	179.	1907.5	3210.9	*	2	0010	291	175.	1785.7	3209.0
																				1	0735	92	3224.	2045.8	3213.0	*	1	1555	192	179.	1906.3	3210.9	*	2	0015	292	175.	1784.5	3209.0
																				1	0740	93	2776.	2040.1	3213.0	*	1	1600	193	179.	1905.1	3210.9	*	2	0020	293	175.	1783.3	3209.0
																				1	0745	94	2379.	2035.0	3212.9	*	1	1605	194	179.	1903.9	3210.9	*	2	0025	294	175.	1782.1	3209.0
																				1	0750	95	2028.	2030.5	3212.8	*	1	1610	195	179.	1902.6	3210.9	*	2	0030	295	175.	1780.9	3208.9
																				1	0755	96	1720.	2026.6	3212.8	*	1	1615	196	179.	1901.4	3210.8	*	2	0035	296	175.	1779.7	3208.9
																				1	0800	97	1452.	2023.2	3212.7	*	1	1620	197	179.	1900.2	3210.8	*	2	0040	297	175.	1778.5	3208.9
																				1	0805	98	1221.	2020.2	3212.7	*	1	1625	198	179.	1898.9	3210.8	*	2	0045	298	175.	1777.2	3208.9
																				1	0810	99	1023.	2017.7	3212.6	*	1	1630	199	179.	1897.7	3210.8	*	2	0050	299	175.	1776.0	3208.9
																				1	0815	100	854.	2015.6	3212.6	*	1	1635	200	179.	1896.5	3210.8	*	2	0055	300	175.	1774.8	3208.8

PEAK FLOW AND TIME FOR MAXIMUM AVERAGE FLOW

	PEAK FLOW (CFS)	TIME (HR)	6-HR	24-HR	72-HR	24.92-HR
+	32567.	5.00	10315.	2700.	2600.	2600.
		(INCHES)	1.752	1.834	1.834	1.834
		(AC-FT)	5115.	5355.	5355.	5355.

PEAK STORAGE AND TIME FOR MAXIMUM AVERAGE STORAGE

	PEAK STORAGE (AC-FT)	TIME (HR)	6-HR	24-HR	72-HR	24.92-HR
+	2325.	5.00	2111.	1741.	1677.	1677.

PEAK STAGE AND TIME FOR MAXIMUM AVERAGE STAGE

	PEAK STAGE (FEET)	TIME (HR)	6-HR	24-HR	72-HR	24.92-HR
+	3216.91	5.00	3213.94	3206.81	3205.13	3205.13

CUMULATIVE AREA = 54.73 SQ MI

HYDROGRAPH AT STATION RRDB
PLAN 1, RATIO = .76

	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE		DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE		DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
	1	0000	1	0.	.0	3161.0	*		1	0820	101	712.	2013.8	3212.6	*		1	1640	201	178.	1895.2	3210.7
	1	0005	2	0.	.0	3161.0	*		1	0825	102	591.	2012.2	3212.6	*		1	1645	202	178.	1894.0	3210.7
	1	0010	3	0.	.0	3161.0	*		1	0830	103	490.	2010.9	3212.6	*		1	1650	203	178.	1892.8	3210.7
	1	0015	4	0.	.0	3161.0	*		1	0835	104	406.	2009.9	3212.5	*		1	1655	204	178.	1891.6	3210.7
	1	0020	5	0.	.0	3161.0	*		1	0840	105	336.	2009.0	3212.5	*		1	1700	205	178.	1890.3	3210.7
	1	0025	6	0.	.3	3161.0	*		1	0845	106	277.	2008.2	3212.5	*		1	1705	206	178.	1889.1	3210.7
	1	0030	7	1.	.8	3161.1	*		1	0850	107	229.	2007.6	3212.5	*		1	1710	207	178.	1887.9	3210.6
	1	0035	8	2.	1.8	3161.2	*		1	0855	108	188.	2007.1	3212.5	*		1	1715	208	178.	1886.6	3210.6
	1	0040	9	3.	3.0	3161.3	*		1	0900	109	182.	2006.6	3212.5	*		1	1720	209	178.	1885.4	3210.6
	1	0045	10	5.	4.3	3161.5	*		1	0905	110	182.	2005.9	3212.5	*		1	1725	210	178.	1884.2	3210.6
	1	0050	11	6.	5.8	3161.6	*		1	0910	111	182.	2005.2	3212.5	*		1	1730	211

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HYDROGRAPH AT											
+	104A	3.39	1	FLOW	1729.	1637.	1511.	1382.	1286.	1114.	931.	783.
				TIME	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25
3 COMBINED AT											
+	C104A	47.87	1	FLOW	31307.	29915.	27980.	25999.	24518.	21836.	18934.	16541.
				TIME	4.92	4.92	4.92	4.92	4.92	5.00	5.00	5.00
HYDROGRAPH AT											
+	RD1	.43	1	FLOW	539.	514.	481.	447.	421.	374.	324.	282.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
ROUTED TO											
+	R-RD1	.43	1	FLOW	511.	489.	461.	429.	403.	358.	311.	272.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT											
+	RD2	.47	1	FLOW	681.	654.	617.	578.	549.	496.	438.	389.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT											
+	CRD2	.90	1	FLOW	1183.	1133.	1068.	992.	942.	840.	733.	646.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
ROUTED TO											
+	RCRD2	.90	1	FLOW	1131.	1076.	1013.	938.	891.	799.	700.	617.
				TIME	3.58	3.58	3.58	3.58	3.58	3.67	3.67	3.67
HYDROGRAPH AT											
+	RD3	.33	1	FLOW	456.	437.	411.	385.	365.	328.	289.	255.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT											
+	CRD3	1.23	1	FLOW	1586.	1513.	1425.	1323.	1256.	1122.	978.	860.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT											
+	RR14A	4.60	1	FLOW	3153.	3011.	2813.	2610.	2459.	2183.	1887.	1643.
				TIME	4.08	4.08	4.08	4.08	4.08	4.08	4.17	4.17
ROUTED TO											
+	R-RR14A	4.60	1	FLOW	3143.	3002.	2806.	2605.	2455.	2181.	1885.	1642.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
HYDROGRAPH AT											
+	RD4	.40	1	FLOW	497.	474.	442.	410.	385.	341.	293.	253.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT											
+	CRD4	5.00	1	FLOW	3277.	3129.	2922.	2712.	2553.	2266.	1956.	1701.
				TIME	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.17
ROUTED TO											
+	RCRD4	5.00	1	FLOW	3264.	3117.	2910.	2700.	2543.	2259.	1952.	1700.
				TIME	4.08	4.08	4.08	4.17	4.17	4.17	4.17	4.17
HYDROGRAPH AT											
+	RD5	.37	1	FLOW	471.	450.	421.	390.	368.	327.	282.	245.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT											
+	CRD5	5.37	1	FLOW	3386.	3234.	3019.	2800.	2637.	2340.	2019.	1754.
				TIME	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08
ROUTED TO											
+	RCRD5	5.37	1	FLOW	3377.	3226.	3011.	2791.	2630.	2335.	2016.	1755.
				TIME	4.08	4.08	4.08	4.08	4.08	4.17	4.17	4.17
HYDROGRAPH AT											
+	RD6	.25	1	FLOW	347.	333.	313.	293.	278.	250.	219.	194.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT											
+	CRD6	5.62	1	FLOW	3463.	3309.	3089.	2864.	2699.	2396.	2065.	1794.
				TIME	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08
3 COMBINED AT											
+	INRR	54.73	1	FLOW	34657.	33132.	31003.	28825.	27198.	24227.	21006.	18350.
				TIME	4.92	4.92	4.92	4.92	4.92	4.92	4.92	4.92
ROUTED TO											
+	RRDB	54.73	1	FLOW	34409.	32567.	30398.	28119.	26265.	22565.	18111.	14300.
				TIME	5.00	5.00	5.08	5.08	5.08	5.17	5.33	5.58
				** PEAK STAGES IN FEET **								
			1	STAGE	3217.07	3216.91	3216.65	3216.37	3216.15	3215.70	3215.15	3214.69
				TIME	5.00	5.00	5.08	5.08	5.08	5.17	5.33	5.58
DIVERSION TO											
+	*D-RROUT	54.73	1	FLOW	34227.	32385.	30216.	27937.	26083.	22383.	17929.	14118.
				TIME	5.00	5.00	5.08	5.08	5.08	5.17	5.33	5.58
HYDROGRAPH AT											
+	*DOUTRR	54.73	1	FLOW	182.	182.	182.	182.	182.	182.	182.	182.
				TIME	4.67	4.83	5.08	4.67	4.75	4.83	5.08	5.25
ROUTED TO											
+	ROUTRR	54.73	1	FLOW	182.	182.	182.	182.	182.	182.	182.	182.
				TIME	4.58	4.58	4.67	4.75	4.83	5.00	5.17	5.42
HYDROGRAPH AT											
+	R3A	.19	1	FLOW	229.	218.	202.	187.	175.	154.	131.	113.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
2 COMBINED AT											
+	CR3A	54.92	1	FLOW	362.	347.	326.	304.	288.	257.	237.	220.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	4.83	4.83
ROUTED TO											
+	RCR3A	54.92	1	FLOW	354.	339.	318.	297.	281.	253.	234.	217.
				TIME	3.58	3.58	3.58	3.58	3.67	4.92	4.92	4.92

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*** NORMAL END OF HEC-1 ***

Appendix C
Hydraulic Analysis

C.1 HY8 Output – Subbasin A, (3) 12′ x 8′ RCB

HY-8 Culvert Analysis Report

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow
Minimum Flow: 1252 cfs
Design Flow: 2311 cfs
Maximum Flow: 2901 cfs

Table 1 - Summary of Culvert Flows at Crossing: (3)12X8 RCB (Station 153+00

Headwater Elevatio	Total Discharge (c	Culvert A Dischar (cfs)	Roadway Dischar (cfs)	Iterations
3329.80	1252.00	1252.00	0.00	1
3330.25	1416.90	1416.90	0.00	1
3330.68	1581.80	1581.80	0.00	1
3331.09	1746.70	1746.70	0.00	1
3331.50	1911.60	1911.60	0.00	1
3331.91	2076.50	2076.50	0.00	1
3332.49	2311.00	2311.00	0.00	1
3332.72	2406.30	2406.30	0.00	1
3333.14	2571.20	2571.20	0.00	1
3333.56	2736.10	2736.10	0.00	1
3334.00	2901.00	2901.00	0.00	1
3335.62	3461.48	3461.48	0.00	Overtopping

Rating Curve Plot for Crossing: (3)12X8 RCB (Station 153+00)

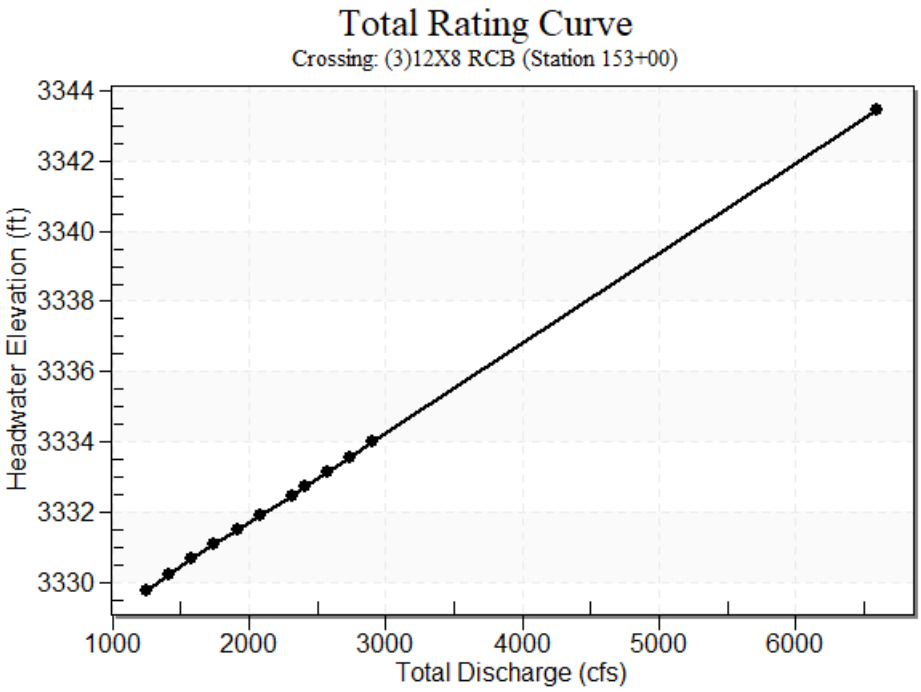

Table 2 - Culvert Summary Table: Culvert A

Total Discharge (cfs)	Culvert Discharge (cfs)	Headwater Elevation (ft)	Inlet Control Depth (f	Outlet Control Depth (f	Flow Type	Normal Depth (f	Critical Depth (f	Outlet Depth (f	Tailwater Depth (f	Outlet Velocity (ft/s)	Tailwater Velocity (ft/s)
1252.00	1252.00	3329.80	4.952	2.808	1-S2n	1.253	3.349	2.291	2.030	15.179	13.999
1416.90	1416.90	3330.25	5.399	3.213	1-S2n	1.357	3.637	2.522	2.183	15.604	14.628
1581.80	1581.80	3330.68	5.828	3.622	1-S2n	1.459	3.914	2.747	2.329	15.998	15.208
1746.70	1746.70	3331.09	6.245	4.036	1-S2n	1.555	4.181	2.965	2.469	16.365	15.745
1911.60	1911.60	3331.50	6.653	4.456	1-S2n	1.651	4.441	3.178	2.603	16.710	16.247
2076.50	2076.50	3331.91	7.058	4.884	1-S2n	1.743	4.692	3.386	2.732	17.036	16.720
2311.00	2311.00	3332.49	7.635	5.505	1-S2n	1.871	5.039	3.675	2.908	17.469	17.347
2406.30	2406.30	3332.72	7.872	5.763	1-S2n	1.922	5.177	3.790	2.977	17.638	17.588
2571.20	2571.20	3333.14	8.288	6.216	5-S2n	2.009	5.411	3.986	3.094	17.918	17.991
2736.10	2736.10	3333.56	8.714	6.679	5-S2n	2.094	5.640	4.179	3.208	18.187	18.374
2901.00	2901.00	3334.00	9.153	7.151	5-S2n	2.178	5.864	4.369	3.319	18.446	18.741

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Straight Culvert

Inlet Elevation (invert): 3324.85 ft, Outlet Elevation (invert): 3323.89 ft

Culvert Length: 17.23 ft, Culvert Slope: 0.0558

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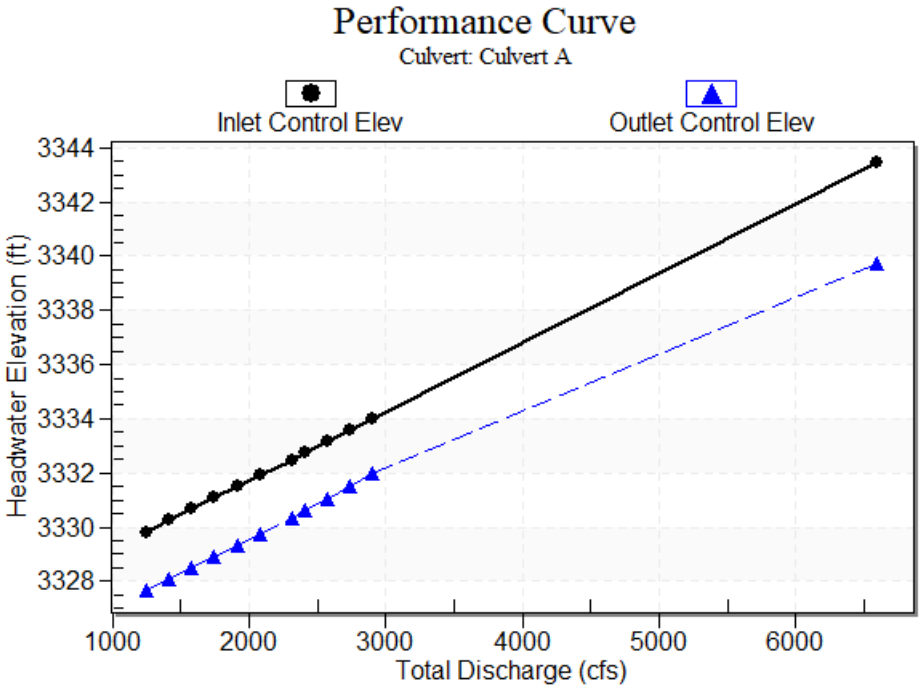
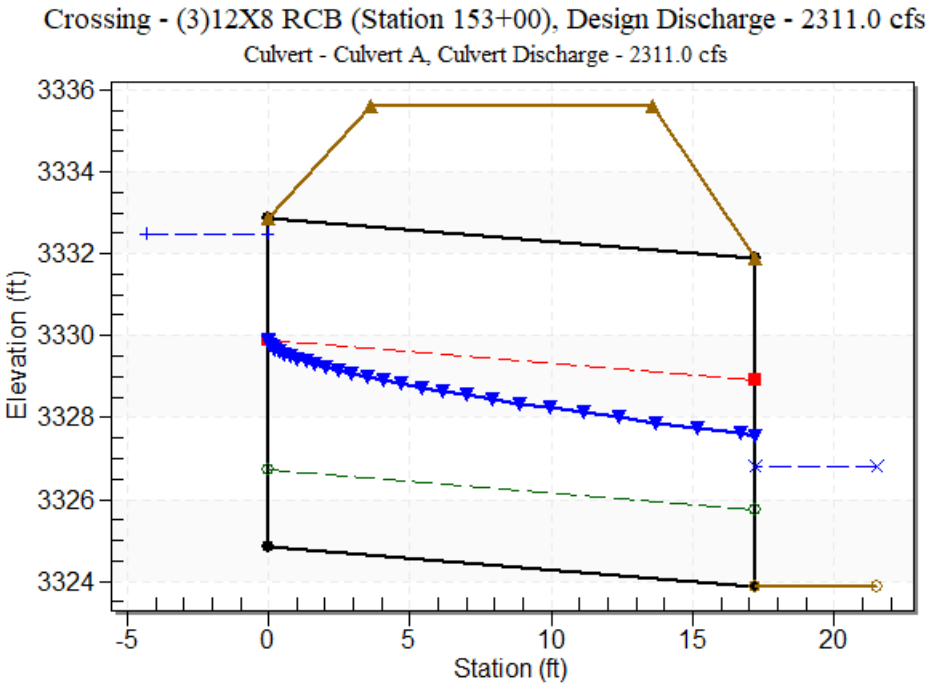
Culvert Performance Curve Plot: Culvert A



Water Surface Profile Plot for Culvert: Culvert A



Site Data - Culvert A

Site Data Option: Culvert Invert Data
Inlet Station: 0.00 ft
Inlet Elevation: 3324.85 ft
Outlet Station: 17.20 ft
Outlet Elevation: 3323.89 ft
Number of Barrels: 3

Culvert Data Summary - Culvert A

Barrel Shape: Concrete Box
Barrel Span: 12.00 ft
Barrel Rise: 8.00 ft
Barrel Material: Concrete
Embedment: 0.00 in
Barrel Manning's n: 0.0130
Culvert Type: Straight
Inlet Configuration: Square Edge (30-75º flare) Wingwall
Inlet Depression: None

Table 3 - Downstream Channel Rating Curve (Crossing: (3)12X8 RCB (Station

Flow (cfs)	Water Surfac Elev (ft)	Depth (ft)	Velocity (ft/s	Shear (psf)	Froude Number
1252.00	3325.92	2.03	14.00	8.08	1.81
1416.90	3326.07	2.18	14.63	8.69	1.83
1581.80	3326.22	2.33	15.21	9.27	1.85
1746.70	3326.36	2.47	15.75	9.83	1.86
1911.60	3326.49	2.60	16.25	10.36	1.87
2076.50	3326.62	2.73	16.72	10.88	1.89
2311.00	3326.80	2.91	17.35	11.58	1.90
2406.30	3326.87	2.98	17.59	11.85	1.91
2571.20	3326.98	3.09	17.99	12.32	1.92
2736.10	3327.10	3.21	18.37	12.77	1.93
2901.00	3327.21	3.32	18.74	13.21	1.94

Tailwater Channel Data - (3)12X8 RCB (Station 153+00)

Tailwater Channel Option: Trapezoidal Channel
Bottom Width: 40.00 ft
Side Slope (H:V): 2.00 (_:1)
Channel Slope: 0.0638
Channel Manning's n: 0.0400
Channel Invert Elevation: 3323.89 ft

Roadway Data for Crossing: (3)12X8 RCB (Station 153+00)

Roadway Profile Shape: Constant Roadway Elevation
Crest Length: 17.20 ft
Crest Elevation: 3335.62 ft
Roadway Surface: Paved
Roadway Top Width: 10.00 ft

C.2 HY8 Output – Subbasin B, 10’ x 7’ RCB

HY-8 Culvert Analysis Report

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 270 cfs

Design Flow: 563 cfs

Maximum Flow: 689 cfs

Table 1 - Summary of Culvert Flows at Crossing: 10X7 RCB (Station 149+00)

Headwater Elevation (ft)	Total Discharge (cfs)	Culvert B Discharge (cfs)	Roadway Discharge (cfs)	Iterations
3326.07	270.00	270.00	0.00	1
3326.55	311.90	311.90	0.00	1
3327.00	353.80	353.80	0.00	1
3327.44	395.70	395.70	0.00	1
3327.88	437.60	437.60	0.00	1
3328.31	479.50	479.50	0.00	1
3328.75	521.40	521.40	0.00	1
3329.19	563.00	563.00	0.00	1
3329.64	605.20	605.20	0.00	1
3330.11	647.10	647.10	0.00	1
3330.59	689.00	689.00	0.00	1
3333.13	882.93	882.93	0.00	Overtopping

Rating Curve Plot for Crossing: 10X7 RCB (Station 149+00)

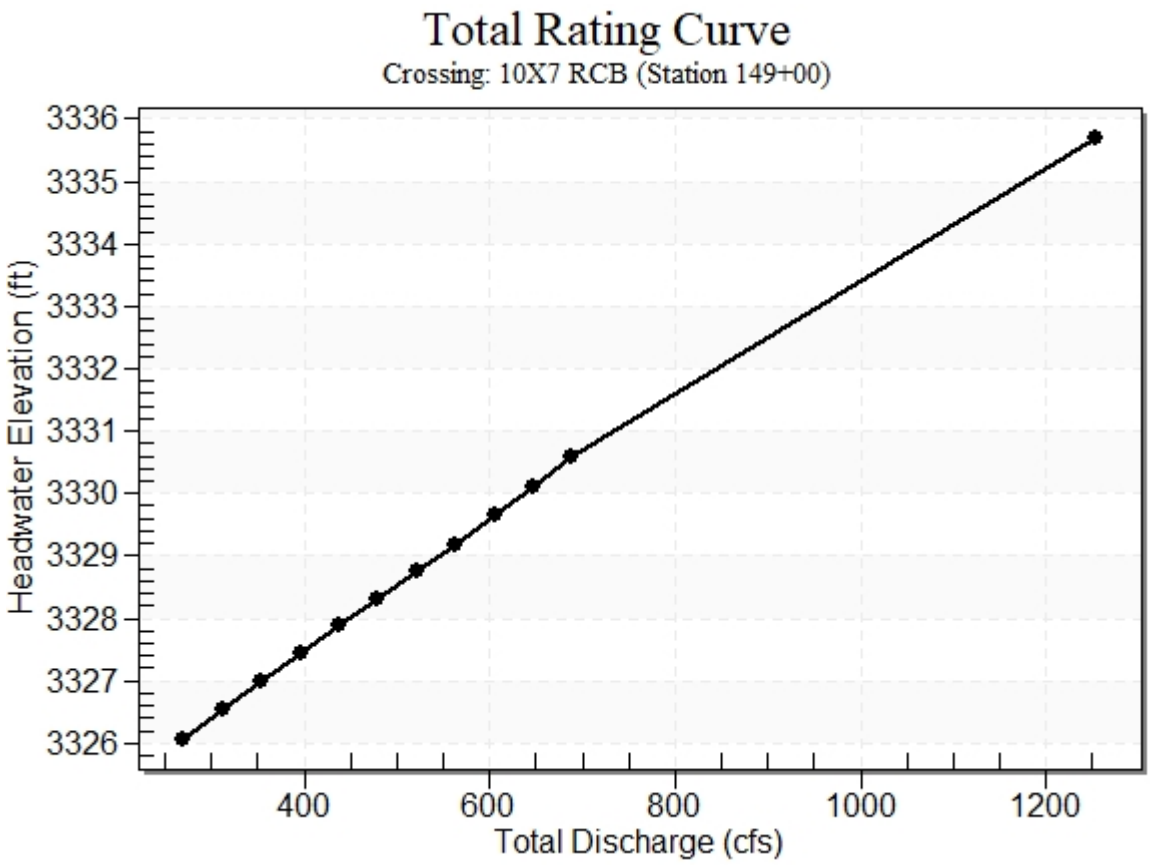


Table 2 - Culvert Summary Table: Culvert B

Total Discharge (cfs)	Culvert Discharge (cfs)	Headwater Elevation (ft)	Inlet Control Depth (ft)	Outlet Control Depth (ft)	Flow Type	Normal Depth (ft)	Critical Depth (ft)	Outlet Depth (ft)	Tailwater Depth (ft)	Outlet Velocity (ft/s)	Tailwater Velocity (ft/s)
270.00	270.00	3326.07	4.623	2.332	1-S2n	1.101	2.829	1.926	1.882	14.019	10.426
311.90	311.90	3326.55	5.095	2.736	1-S2n	1.209	3.115	2.155	2.036	14.476	10.884
353.80	353.80	3327.00	5.550	3.145	1-S2n	1.312	3.388	2.375	2.181	14.895	11.296
395.70	395.70	3327.44	5.992	3.559	1-S2n	1.413	3.650	2.589	2.317	15.282	11.670
437.60	437.60	3327.88	6.427	3.982	1-S2n	1.510	3.903	2.797	2.446	15.643	12.015
479.50	479.50	3328.31	6.860	4.414	1-S2n	1.605	4.149	3.000	2.568	15.982	12.334
521.40	521.40	3328.75	7.296	4.855	5-S2n	1.696	4.387	3.199	2.685	16.299	12.632
563.00	563.00	3329.19	7.736	5.304	5-S2n	1.786	4.617	3.392	2.797	16.598	12.911
605.20	605.20	3329.64	8.193	5.771	5-S2n	1.875	4.845	3.584	2.905	16.887	13.176
647.10	647.10	3330.11	8.660	6.247	5-S2n	1.962	5.066	3.770	3.009	17.162	13.426
689.00	689.00	3330.59	9.145	7.594	5-S2n	2.047	5.283	3.954	3.109	17.423	13.663

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Straight Culvert

Inlet Elevation (invert): 3321.45 ft, Outlet Elevation (invert): 3320.60 ft

Culvert Length: 16.22 ft, Culvert Slope: 0.0525

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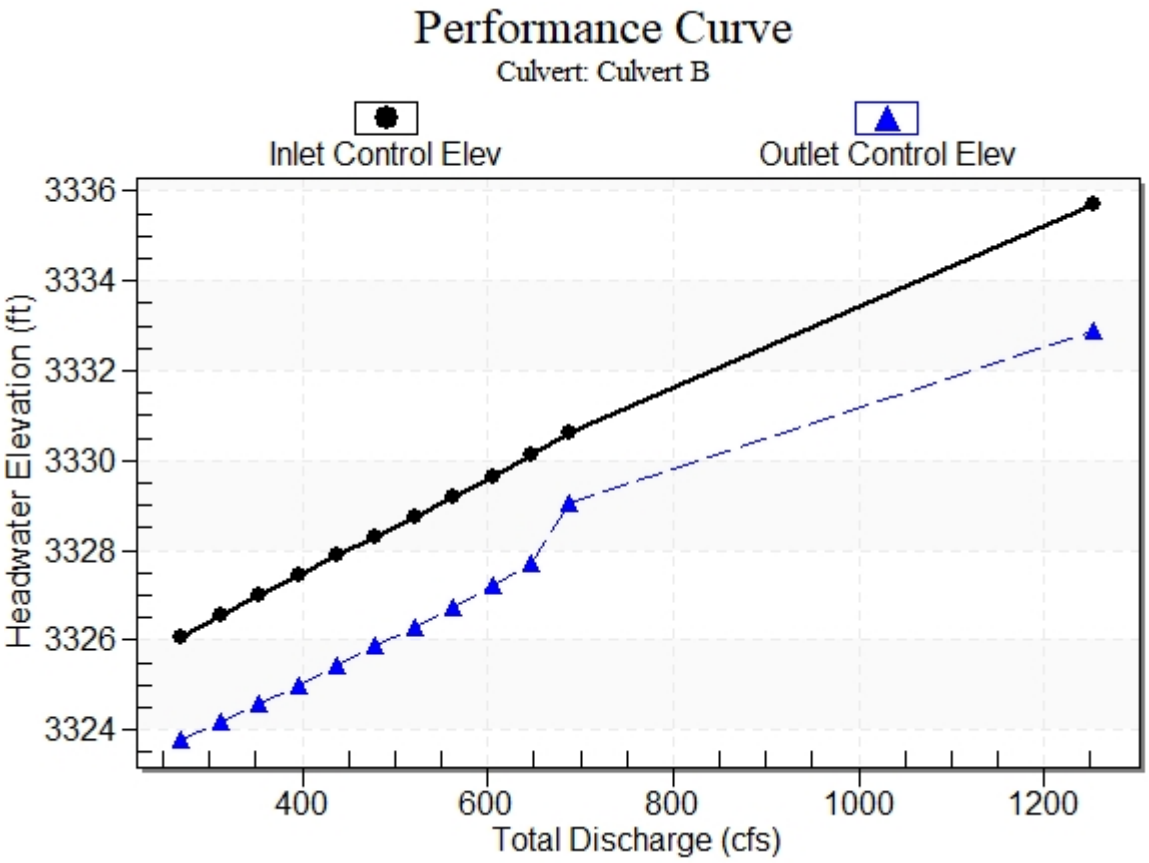
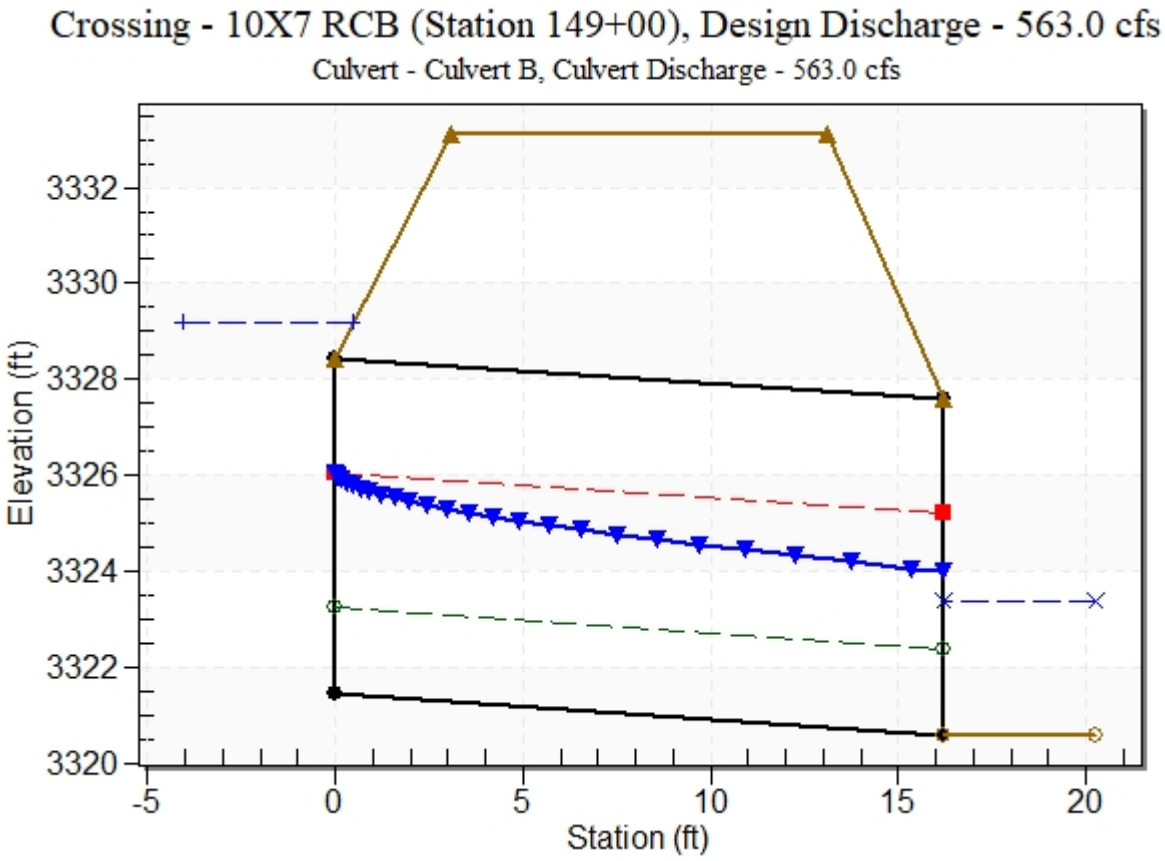
Culvert Performance Curve Plot: Culvert B



Water Surface Profile Plot for Culvert: Culvert B



Site Data - Culvert B

Site Data Option: Culvert Invert Data

Inlet Station: 0.00 ft

Inlet Elevation: 3321.45 ft

Outlet Station: 16.20 ft

Outlet Elevation: 3320.60 ft

Number of Barrels: 1

Culvert Data Summary - Culvert B

Barrel Shape: Concrete Box

Barrel Span: 10.00 ft

Barrel Rise: 7.00 ft

Barrel Material: Concrete

Embedment: 0.00 in

Barrel Manning's n: 0.0130

Culvert Type: Straight

Inlet Configuration: Square Edge (90º) Headwall

Inlet Depression: None

Table 3 - Downstream Channel Rating Curve (Crossing: 10X7 RCB (Station 149+00))

Flow (cfs)	Water Surface Elev (ft)	Depth (ft)	Velocity (ft/s)	Shear (psf)	Froude Number
270.00	3322.48	1.88	10.43	5.87	1.51
311.90	3322.64	2.04	10.88	6.35	1.53
353.80	3322.78	2.18	11.30	6.80	1.54
395.70	3322.92	2.32	11.67	7.23	1.55
437.60	3323.05	2.45	12.01	7.63	1.56
479.50	3323.17	2.57	12.33	8.01	1.57
521.40	3323.29	2.69	12.63	8.38	1.58
563.00	3323.40	2.80	12.91	8.73	1.59
605.20	3323.51	2.91	13.18	9.06	1.59
647.10	3323.61	3.01	13.43	9.39	1.60
689.00	3323.71	3.11	13.66	9.70	1.61

Tailwater Channel Data - 10X7 RCB (Station 149+00)

Tailwater Channel Option: Trapezoidal Channel

Bottom Width: 10.00 ft

Side Slope (H:V): 2.00 (_:1)

Channel Slope: 0.0500

Channel Manning's n: 0.0400

Channel Invert Elevation: 3320.60 ft

Roadway Data for Crossing: 10X7 RCB (Station 149+00)

Roadway Profile Shape: Constant Roadway Elevation

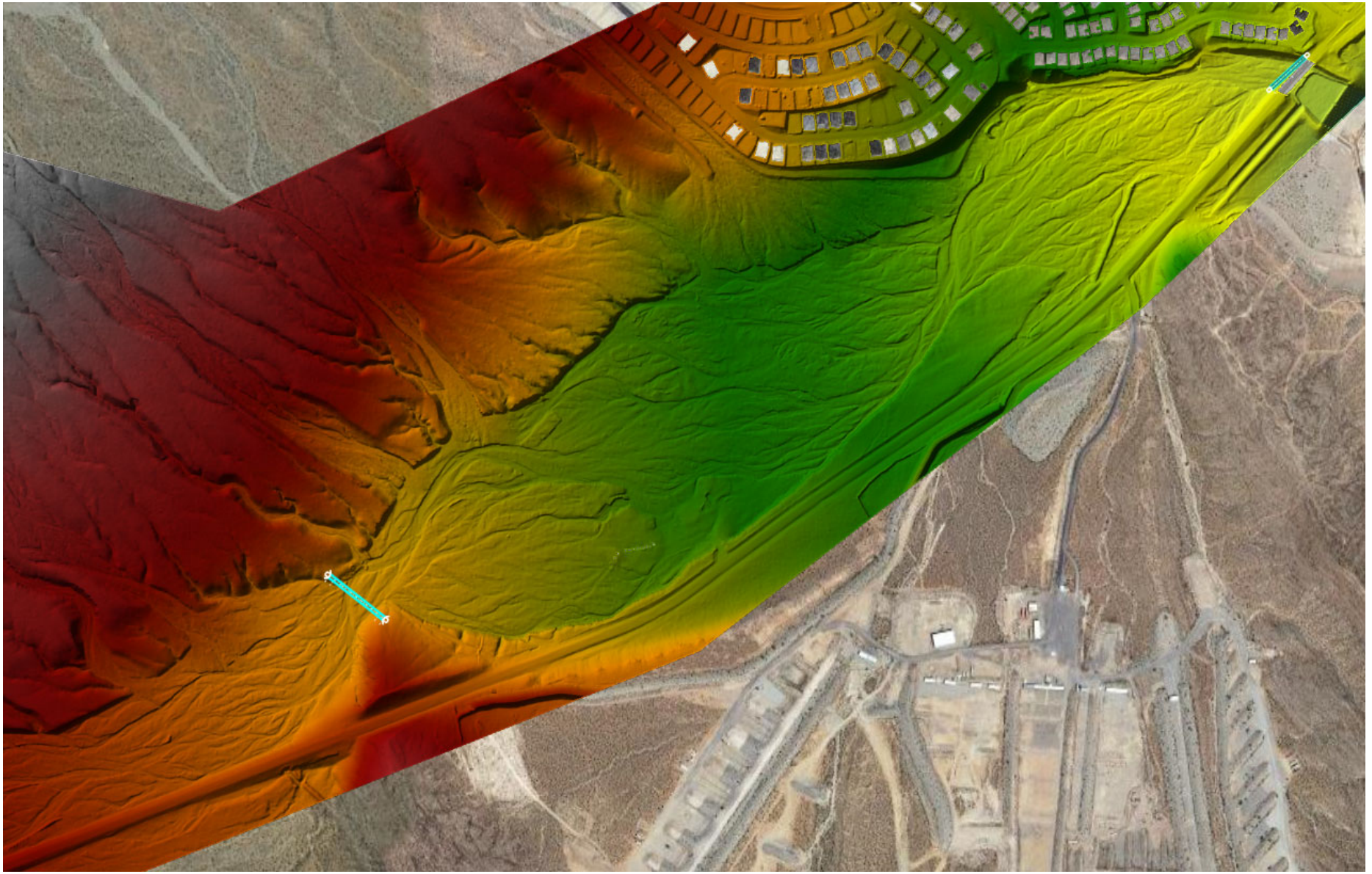
Crest Length: 16.20 ft

Crest Elevation: 3333.13 ft

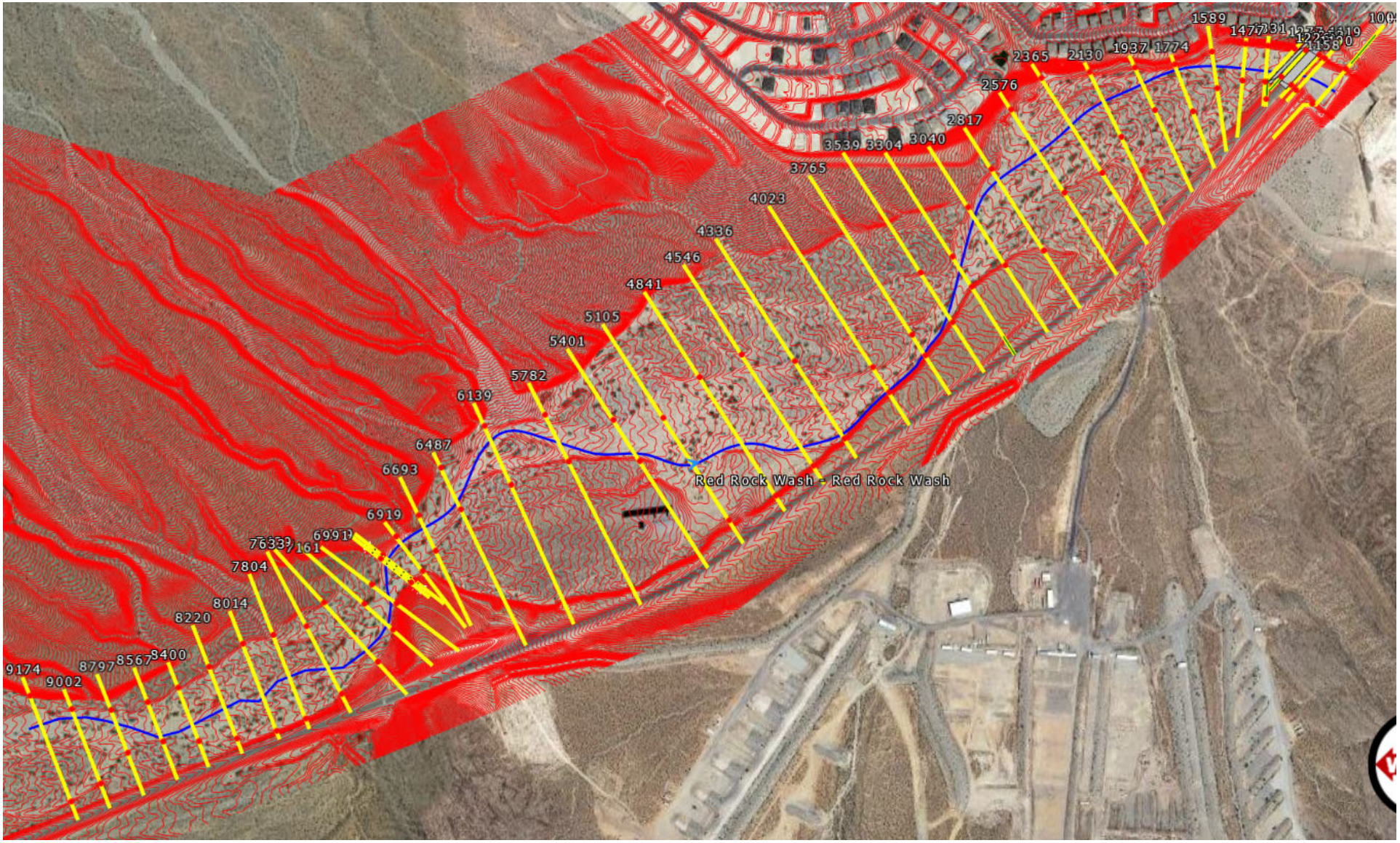
Roadway Surface: Paved

Roadway Top Width: 10.00 ft

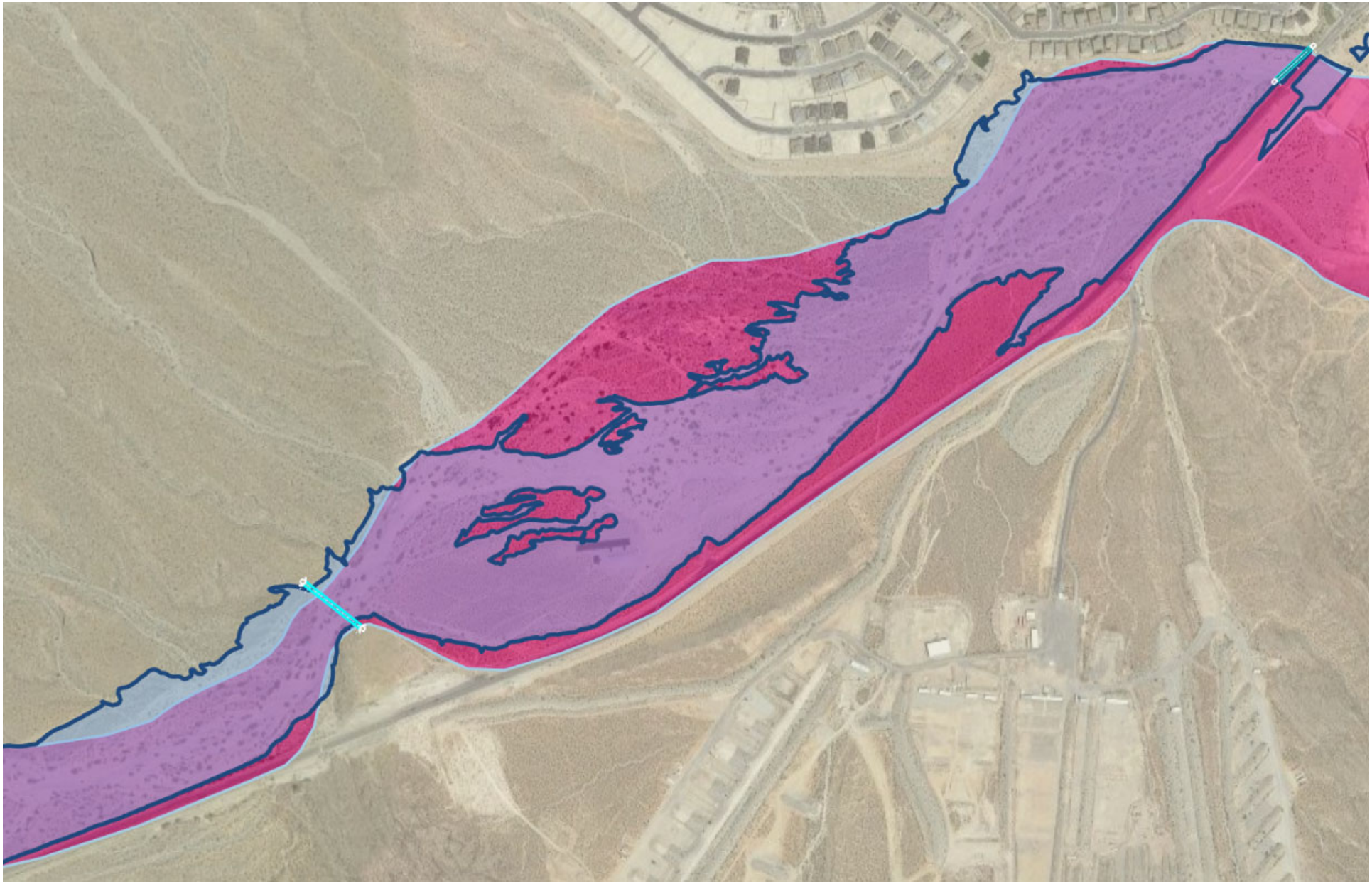
C.3 Floodplain Maps



Colored relief plot showing the braided nature of the existing Red Rock Wash in the study area.



HEC-RAS model cross-sections and river stations over a current aerial photograph and 1-foot contour lines.



Current FEMA Zone A floodplain (red) against the existing 100-year floodplain as delineated by this detailed study (blue).

C.4 HEC-RAS Report Output

HEC-RAS River: Red Rock Wash Reach: Red Rock Wash Profile: 100-yr

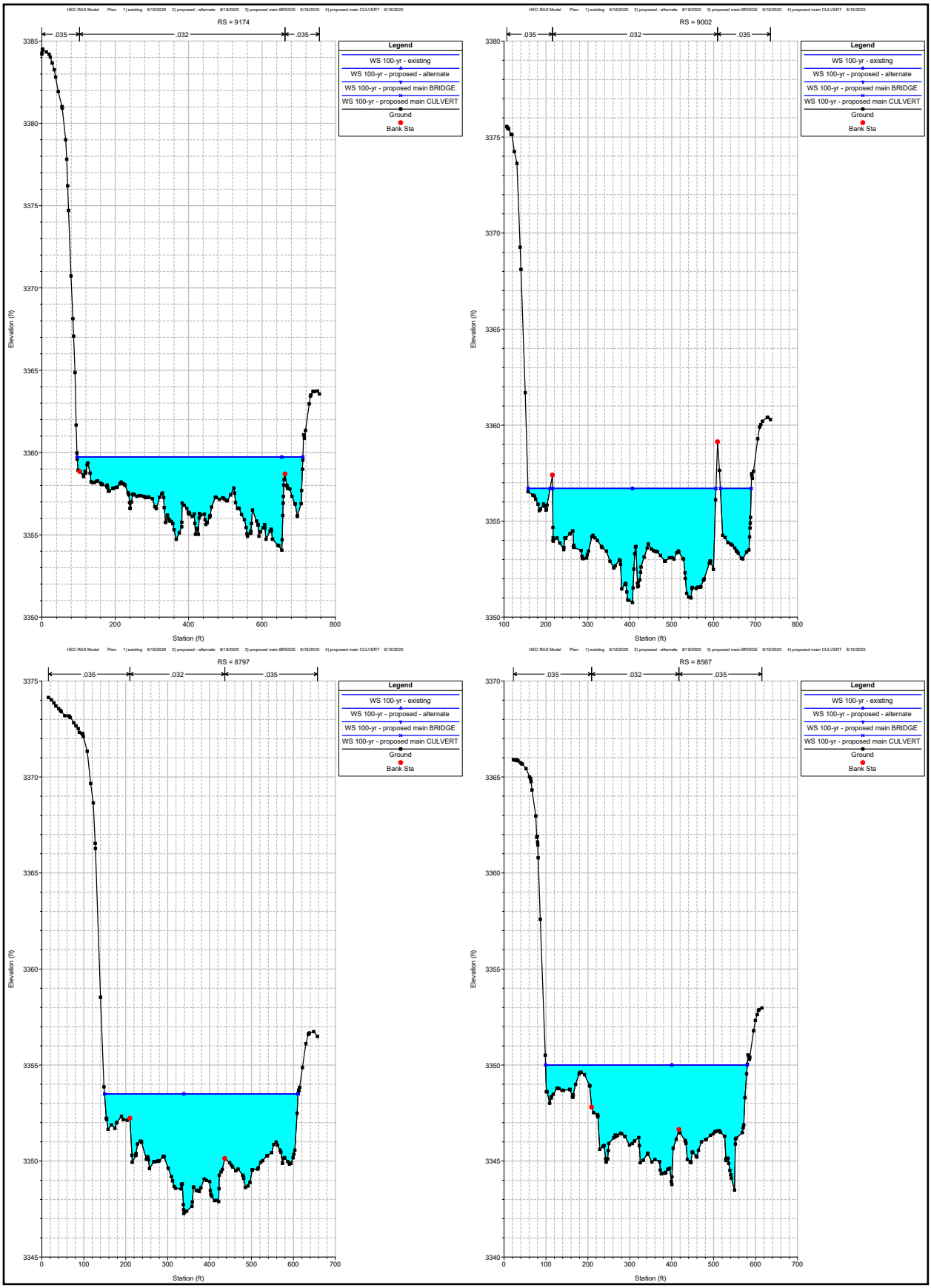
Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Red Rock Wash	9174	100-yr	existing	17209.00	3354.07	3359.73	3359.73	3361.17	0.010316	9.74	1795.41	615.39	0.99
Red Rock Wash	9174	100-yr	proposed - alternate	17209.00	3354.07	3359.73	3359.73	3361.17	0.010316	9.74	1795.41	615.39	0.99
Red Rock Wash	9174	100-yr	proposed main BRIDGE	17209.00	3354.07	3359.73	3359.73	3361.17	0.010316	9.74	1795.41	615.39	0.99
Red Rock Wash	9174	100-yr	proposed main CULVERT	17209.00	3354.07	3359.73	3359.73	3361.17	0.010316	9.74	1795.41	615.39	0.99
Red Rock Wash	9002	100-yr	existing	17209.00	3350.76	3356.70	3356.70	3358.36	0.009173	10.59	1698.55	515.63	0.97
Red Rock Wash	9002	100-yr	proposed - alternate	17209.00	3350.76	3356.70	3356.70	3358.36	0.009173	10.59	1698.55	515.63	0.97
Red Rock Wash	9002	100-yr	proposed main BRIDGE	17209.00	3350.76	3356.70	3356.70	3358.36	0.009173	10.59	1698.55	515.63	0.97
Red Rock Wash	9002	100-yr	proposed main CULVERT	17209.00	3350.76	3356.70	3356.70	3358.36	0.009173	10.59	1698.55	515.63	0.97
Red Rock Wash	8797	100-yr	existing	17209.00	3347.27	3353.50	3353.50	3355.26	0.008865	11.45	1670.16	461.68	0.98
Red Rock Wash	8797	100-yr	proposed - alternate	17209.00	3347.27	3353.50	3353.50	3355.26	0.008865	11.45	1670.16	461.68	0.98
Red Rock Wash	8797	100-yr	proposed main BRIDGE	17209.00	3347.27	3353.50	3353.50	3355.26	0.008865	11.45	1670.16	461.68	0.98
Red Rock Wash	8797	100-yr	proposed main CULVERT	17209.00	3347.27	3353.50	3353.50	3355.26	0.008865	11.45	1670.16	461.68	0.98
Red Rock Wash	8567	100-yr	existing	17209.00	3343.78	3350.00	3350.00	3351.75	0.008491	11.30	1688.04	481.03	0.96
Red Rock Wash	8567	100-yr	proposed - alternate	17209.00	3343.78	3350.00	3350.00	3351.75	0.008491	11.30	1688.04	481.03	0.96
Red Rock Wash	8567	100-yr	proposed main BRIDGE	17209.00	3343.78	3350.00	3350.00	3351.75	0.008491	11.30	1688.04	481.03	0.96
Red Rock Wash	8567	100-yr	proposed main CULVERT	17209.00	3343.78	3350.00	3350.00	3351.75	0.008491	11.30	1688.04	481.03	0.96
Red Rock Wash	8400	100-yr	existing	17209.00	3341.55	3346.65	3346.65	3348.39	0.008659	10.95	1687.38	501.01	0.96
Red Rock Wash	8400	100-yr	proposed - alternate	17209.00	3341.55	3346.65	3346.65	3348.39	0.008659	10.95	1687.38	501.01	0.96
Red Rock Wash	8400	100-yr	proposed main BRIDGE	17209.00	3341.55	3346.65	3346.65	3348.39	0.008659	10.95	1687.38	501.01	0.96
Red Rock Wash	8400	100-yr	proposed main CULVERT	17209.00	3341.55	3346.65	3346.65	3348.39	0.008659	10.95	1687.38	501.01	0.96
Red Rock Wash	8220	100-yr	existing	17209.00	3337.48	3343.14	3343.14	3344.73	0.008486	10.34	1757.02	549.84	0.94
Red Rock Wash	8220	100-yr	proposed - alternate	17209.00	3337.48	3343.14	3343.14	3344.73	0.008486	10.34	1757.02	549.84	0.94
Red Rock Wash	8220	100-yr	proposed main BRIDGE	17209.00	3337.48	3343.14	3343.14	3344.73	0.008486	10.34	1757.02	549.84	0.94
Red Rock Wash	8220	100-yr	proposed main CULVERT	17209.00	3337.48	3343.14	3343.14	3344.73	0.008486	10.34	1757.02	549.84	0.94
Red Rock Wash	8014	100-yr	existing	17209.00	3333.44	3338.55	3338.55	3340.15	0.009728	10.31	1722.79	536.27	0.98
Red Rock Wash	8014	100-yr	proposed - alternate	17209.00	3333.44	3338.55	3338.55	3340.15	0.009728	10.31	1722.79	536.27	0.98
Red Rock Wash	8014	100-yr	proposed main BRIDGE	17209.00	3333.44	3338.55	3338.55	3340.15	0.009728	10.31	1722.79	536.27	0.98
Red Rock Wash	8014	100-yr	proposed main CULVERT	17209.00	3333.44	3338.55	3338.55	3340.15	0.009728	10.31	1722.79	536.27	0.98
Red Rock Wash	7804	100-yr	existing	17209.00	3329.40	3335.36	3335.36	3337.13	0.009942	10.73	1625.51	471.15	1.00
Red Rock Wash	7804	100-yr	proposed - alternate	17209.00	3329.40	3335.36	3335.36	3337.13	0.009942	10.73	1625.51	471.15	1.00
Red Rock Wash	7804	100-yr	proposed main BRIDGE	17209.00	3329.40	3335.36	3335.36	3337.13	0.009942	10.73	1625.51	471.15	1.00
Red Rock Wash	7804	100-yr	proposed main CULVERT	17209.00	3329.40	3335.36	3335.36	3337.13	0.009942	10.73	1625.51	471.15	1.00
Red Rock Wash	7633	100-yr	existing	17209.00	3325.37	3331.33	3331.33	3333.06	0.009777	10.80	1642.00	466.91	1.00
Red Rock Wash	7633	100-yr	proposed - alternate	17209.00	3325.37	3331.33	3331.33	3333.06	0.009777	10.80	1642.00	466.91	1.00
Red Rock Wash	7633	100-yr	proposed main BRIDGE	17209.00	3325.37	3331.33	3331.33	3333.06	0.009777	10.80	1642.00	466.91	1.00
Red Rock Wash	7633	100-yr	proposed main CULVERT	17209.00	3325.37	3331.33	3331.33	3333.06	0.009777	10.80	1642.00	466.91	1.00
Red Rock Wash	7429	100-yr	existing	17209.00	3322.24	3328.36	3328.36	3330.15	0.008586	10.78	1640.43	497.84	0.95
Red Rock Wash	7429	100-yr	proposed - alternate	17209.00	3322.24	3328.36	3328.36	3330.15	0.008586	10.78	1640.43	497.84	0.95
Red Rock Wash	7429	100-yr	proposed main BRIDGE	17209.00	3322.24	3328.36	3328.36	3330.15	0.008586	10.78	1640.43	497.84	0.95
Red Rock Wash	7429	100-yr	proposed main CULVERT	17209.00	3322.24	3328.36	3328.36	3330.15	0.008586	10.78	1640.43	497.84	0.95
Red Rock Wash	7320	100-yr	existing	17209.00	3319.02	3326.37	3325.83	3327.77	0.005064	10.53	1915.14	431.96	0.77
Red Rock Wash	7320	100-yr	proposed - alternate	17209.00	3319.02	3326.37	3325.83	3327.77	0.005064	10.53	1915.14	431.96	0.77
Red Rock Wash	7320	100-yr	proposed main BRIDGE	17209.00	3319.02	3326.37	3325.83	3327.77	0.005064	10.53	1915.14	431.96	0.77
Red Rock Wash	7320	100-yr	proposed main CULVERT	17209.00	3319.02	3326.37	3325.83	3327.77	0.005064	10.53	1915.14	431.96	0.77
Red Rock Wash	7161	100-yr	existing	17209.00	3317.52	3324.61	3324.61	3326.86	0.007716	13.19	1502.92	324.10	0.96
Red Rock Wash	7161	100-yr	proposed - alternate	17209.00	3317.52	3324.61	3324.61	3326.86	0.007716	13.19	1502.92	324.10	0.96
Red Rock Wash	7161	100-yr	proposed main BRIDGE	17209.00	3317.52	3324.61	3324.61	3326.86	0.007716	13.19	1502.92	324.10	0.96
Red Rock Wash	7161	100-yr	proposed main CULVERT	17209.00	3317.52	3324.61	3324.61	3326.86	0.007716	13.19	1502.92	324.10	0.96
Red Rock Wash	6991	100-yr	existing	17209.00	3315.07	3322.33	3322.33	3325.01	0.008149	13.58	1338.81	247.65	0.99
Red Rock Wash	6991	100-yr	proposed - alternate	17209.00	3315.07	3322.33	3322.33	3325.01	0.008149	13.58	1338.81	247.65	0.99
Red Rock Wash	6991	100-yr	proposed main BRIDGE	17209.00	3315.07	3322.40	3322.40	3325.12	0.009575	13.65	1319.86	245.42	0.99
Red Rock Wash	6991	100-yr	proposed main CULVERT	17209.00	3315.07	3323.32	3319.83	3324.10	0.001404	7.10	2425.07	302.72	0.44
Red Rock Wash	6979	100-yr	existing	17209.00	3314.21	3321.96	3321.96	3324.65	0.008029	13.50	1337.28	249.41	0.98
Red Rock Wash	6979	100-yr	proposed - alternate	17209.00	3314.21	3321.96	3321.96	3324.65	0.008029	13.50	1337.28	249.41	0.98
Red Rock Wash	6979	100-yr	proposed main BRIDGE	17209.00	3314.21	3322.07	3322.07	3324.78	0.009347	13.53	1326.30	244.27	0.97
Red Rock Wash	6979	100-yr	proposed main CULVERT	17209.00	3314.70	3322.70	3319.48	3323.54	0.001561	7.34	2350.19	296.46	0.46
Red Rock Wash	6919	100-yr	existing	17209.00	3312.30	3320.40	3320.40	3322.78	0.007115	12.70	1458.57	308.22	0.92
Red Rock Wash	6919	100-yr	proposed - alternate	17209.00	3312.30	3320.40	3320.40	3322.78	0.007115	12.70	1458.57	308.22	0.92
Red Rock Wash	6919	100-yr	proposed main BRIDGE	17209.00	3312.30	3320.40	3320.40	3322.78	0.007109	12.70	1458.96	308.23	0.92
Red Rock Wash	6919	100-yr	proposed main CULVERT	17209.00	3312.30	3320.40	3320.40	3322.78	0.007109	12.70	1458.96	308.23	0.92
Red Rock Wash	6693	100-yr	existing	17209.00	3310.17	3316.58	3316.58	3318.41	0.008007	12.02	1678.98	431.74	0.95
Red Rock Wash	6693	100-yr	proposed - alternate	17209.00	3310.17	3316.58	3316.58	3318.41	0.008007	12.02	1678.98	431.74	0.95
Red Rock Wash	6693	100-yr	proposed main BRIDGE	17209.00	3310.17	3316.58	3316.58	3318.41	0.008007	12.02	1678.98	431.74	0.95
Red Rock Wash	6693	100-yr	proposed main CULVERT	17209.00	3310.17	3316.58	3316.58	3318.41	0.008007	12.02	1678.98	431.74	0.95
Red Rock Wash	6487	100-yr	existing	17209.00	3305.69	3311.49	3311.49	3312.77	0.009005	10.58	2001.41	727.31	0.96
Red Rock Wash	6487	100-yr	proposed - alternate	17209.00	3305.69	3311.49	3311.49	3312.77	0.009005	10.58	2001.41	727.31	0.96
Red Rock Wash	6487	100-yr	proposed main BRIDGE	17209.00	3305.69	3311.47	3311.47	3312.77	0.009162	10.64	1990.06	726.96	0.97
Red Rock Wash	6487	100-yr	proposed main CULVERT	17209.00	3305.69	3311.47	3311.47	3312.77	0.009162	10.64	1990.06	726.96	0.97
Red Rock Wash	6139	100-yr	existing	17209.00	3300.43	3305.11	3305.11	3306.28	0.011489	9.53	2014.82	858.71	1.03
Red Rock Wash	6139	100-yr	proposed - alternate	17209.00	3300.43	3305.11	3305.11	3306.28	0.011489	9.53	2014.82	858.71	1.03
Red Rock Wash	6139	100-yr	proposed main BRIDGE	17209.00	3300.43	3305.12	3305.12	3306.28	0.011400	9.50	2019.82	859.48	1.02
Red Rock Wash	6139	100-yr	proposed main CULVERT	17209.00	3300.43	3305.12	3305.12	3306.28	0.011400	9.50	2019.82	859.48	1.02
Red Rock Wash	5782	100-yr	existing	17209.00	3293.06	3297.92	3297.92	3299.13	0.010402	8.76	1951.51	791.77	0.97
Red Rock Wash	5782	100-yr	proposed - alternate	17209.00	3293.06	3297.92	3297.92	3299.13	0.010402	8.76	1951.51	791.77	0.97
Red Rock Wash	5782	100-yr	proposed main BRIDGE	17209.00	3293.06	3297.91	3297.91	3299.13	0.010561	8.81	1948.50	793.73	0.98
Red Rock Wash	5782	100-yr	proposed main CULVERT	17209.00	3293.06	3297.91	3297.91	3299.13	0.010561	8.81	1948.50	793.73	0.98

HEC-RAS River: Red Rock Wash Reach: Red Rock Wash Profile: 100-yr (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Red Rock Wash	5401	100-yr	existing	17209.00	3286.72	3290.37	3290.37	3291.73	0.011243	7.73	1866.57	684.89	0.97
Red Rock Wash	5401	100-yr	proposed - alternate	17209.00	3286.72	3290.37	3290.37	3291.73	0.011243	7.73	1866.57	684.89	0.97
Red Rock Wash	5401	100-yr	proposed main BRIDGE	17209.00	3286.72	3290.38	3290.38	3291.73	0.011168	7.72	1871.09	686.12	0.96
Red Rock Wash	5401	100-yr	proposed main CULVERT	17209.00	3286.72	3290.38	3290.38	3291.73	0.011168	7.72	1871.09	686.12	0.96
Red Rock Wash	5105	100-yr	existing	17209.00	3279.10	3285.07	3285.07	3286.51	0.009983	9.60	1801.19	667.32	0.98
Red Rock Wash	5105	100-yr	proposed - alternate	17209.00	3279.10	3285.07	3285.07	3286.51	0.009983	9.60	1801.19	667.32	0.98
Red Rock Wash	5105	100-yr	proposed main BRIDGE	17209.00	3279.10	3285.07	3285.07	3286.51	0.010013	9.61	1799.38	666.50	0.98
Red Rock Wash	5105	100-yr	proposed main CULVERT	17209.00	3279.10	3285.07	3285.07	3286.51	0.010013	9.61	1799.38	666.50	0.98
Red Rock Wash	4841	100-yr	existing	17209.00	3274.40	3280.03	3280.03	3281.39	0.010746	9.35	1840.83	676.40	1.00
Red Rock Wash	4841	100-yr	proposed - alternate	17209.00	3274.40	3280.03	3280.03	3281.39	0.010746	9.35	1840.83	676.40	1.00
Red Rock Wash	4841	100-yr	proposed main BRIDGE	17209.00	3274.40	3280.03	3280.03	3281.39	0.010746	9.35	1840.83	676.40	1.00
Red Rock Wash	4841	100-yr	proposed main CULVERT	17209.00	3274.40	3280.03	3280.03	3281.39	0.010746	9.35	1840.83	676.40	1.00
Red Rock Wash	4546	100-yr	existing	17209.00	3268.57	3275.56	3275.56	3276.99	0.010424	9.57	1798.26	625.15	0.99
Red Rock Wash	4546	100-yr	proposed - alternate	17209.00	3268.57	3275.56	3275.56	3276.99	0.010424	9.57	1798.26	625.15	0.99
Red Rock Wash	4546	100-yr	proposed main BRIDGE	17209.00	3268.57	3275.56	3275.56	3276.99	0.010411	9.57	1799.03	625.24	0.99
Red Rock Wash	4546	100-yr	proposed main CULVERT	17209.00	3268.57	3275.56	3275.56	3276.99	0.010411	9.57	1799.03	625.24	0.99
Red Rock Wash	4336	100-yr	existing	17209.00	3265.24	3271.62	3271.62	3273.35	0.009613	10.57	1634.03	491.21	0.98
Red Rock Wash	4336	100-yr	proposed - alternate	17209.00	3265.24	3271.62	3271.62	3273.35	0.009613	10.57	1634.03	491.21	0.98
Red Rock Wash	4336	100-yr	proposed main BRIDGE	17209.00	3265.24	3271.62	3271.62	3273.35	0.009614	10.57	1634.01	491.21	0.98
Red Rock Wash	4336	100-yr	proposed main CULVERT	17209.00	3265.24	3271.62	3271.62	3273.35	0.009614	10.57	1634.01	491.21	0.98
Red Rock Wash	4023	100-yr	existing	17209.00	3259.11	3266.71	3266.71	3268.19	0.006206	11.60	1984.92	612.82	0.84
Red Rock Wash	4023	100-yr	proposed - alternate	17209.00	3259.11	3266.71	3266.71	3268.19	0.006206	11.60	1984.92	612.82	0.84
Red Rock Wash	4023	100-yr	proposed main BRIDGE	17209.00	3259.11	3266.72	3266.72	3268.19	0.006132	11.55	1993.60	613.35	0.84
Red Rock Wash	4023	100-yr	proposed main CULVERT	17209.00	3259.11	3266.72	3266.72	3268.19	0.006132	11.55	1993.60	613.35	0.84
Red Rock Wash	3765	100-yr	existing	17209.00	3254.62	3261.72	3261.72	3263.68	0.009944	13.52	1657.59	521.06	1.05
Red Rock Wash	3765	100-yr	proposed - alternate	17209.00	3254.62	3261.72	3261.72	3263.68	0.009944	13.52	1657.59	521.06	1.05
Red Rock Wash	3765	100-yr	proposed main BRIDGE	17209.00	3254.62	3261.72	3261.72	3263.68	0.009944	13.52	1657.60	521.06	1.05
Red Rock Wash	3765	100-yr	proposed main CULVERT	17209.00	3254.62	3261.72	3261.72	3263.68	0.009944	13.52	1657.60	521.06	1.05
Red Rock Wash	3539	100-yr	existing	17209.00	3251.80	3258.53	3258.53	3260.14	0.006452	10.74	1850.01	544.07	0.85
Red Rock Wash	3539	100-yr	proposed - alternate	17209.00	3251.80	3258.53	3258.53	3260.14	0.006452	10.74	1850.00	544.07	0.85
Red Rock Wash	3539	100-yr	proposed main BRIDGE	17209.00	3251.80	3258.53	3258.53	3260.14	0.006452	10.74	1850.00	544.07	0.85
Red Rock Wash	3539	100-yr	proposed main CULVERT	17209.00	3251.80	3258.53	3258.53	3260.14	0.006452	10.74	1850.00	544.07	0.85
Red Rock Wash	3304	100-yr	existing	17209.00	3248.70	3255.45	3255.45	3257.23	0.007470	12.10	1731.10	462.51	0.93
Red Rock Wash	3304	100-yr	proposed - alternate	17209.00	3248.70	3255.46	3255.46	3257.23	0.007408	12.07	1735.74	462.92	0.93
Red Rock Wash	3304	100-yr	proposed main BRIDGE	17209.00	3248.70	3255.46	3255.46	3257.23	0.007408	12.07	1735.74	462.92	0.93
Red Rock Wash	3304	100-yr	proposed main CULVERT	17209.00	3248.70	3255.46	3255.46	3257.23	0.007408	12.07	1735.74	462.92	0.93
Red Rock Wash	3040	100-yr	existing	17209.00	3244.52	3251.16	3251.16	3253.08	0.008608	11.28	1591.99	458.09	0.96
Red Rock Wash	3040	100-yr	proposed - alternate	17209.00	3244.52	3251.11	3251.11	3253.08	0.008960	11.42	1570.07	448.82	0.98
Red Rock Wash	3040	100-yr	proposed main BRIDGE	17209.00	3244.52	3251.11	3251.11	3253.08	0.008960	11.42	1570.07	448.83	0.98
Red Rock Wash	3040	100-yr	proposed main CULVERT	17209.00	3244.52	3251.11	3251.11	3253.08	0.008960	11.42	1570.07	448.83	0.98
Red Rock Wash	2817	100-yr	existing	17209.00	3241.48	3246.61	3246.61	3248.01	0.008309	9.73	1907.03	722.90	0.91
Red Rock Wash	2817	100-yr	proposed - alternate	17209.00	3241.48	3246.61	3246.61	3248.01	0.008309	9.73	1907.03	722.90	0.91
Red Rock Wash	2817	100-yr	proposed main BRIDGE	17209.00	3241.48	3246.61	3246.61	3248.01	0.008309	9.73	1907.03	722.90	0.91
Red Rock Wash	2817	100-yr	proposed main CULVERT	17209.00	3241.48	3246.61	3246.61	3248.01	0.008309	9.73	1907.03	722.90	0.91
Red Rock Wash	2576	100-yr	existing	17209.00	3236.08	3240.61	3240.61	3241.75	0.010717	9.22	2058.44	886.04	0.99
Red Rock Wash	2576	100-yr	proposed - alternate	17209.00	3236.08	3240.61	3240.61	3241.75	0.010692	9.21	2059.93	886.11	0.99
Red Rock Wash	2576	100-yr	proposed main BRIDGE	17209.00	3236.08	3240.63	3240.63	3241.76	0.010405	9.14	2075.92	887.61	0.98
Red Rock Wash	2576	100-yr	proposed main CULVERT	17209.00	3236.08	3240.63	3240.63	3241.76	0.010405	9.14	2075.92	887.61	0.98
Red Rock Wash	2365	100-yr	existing	17209.00	3231.24	3236.33	3236.33	3237.43	0.011970	8.36	2046.19	919.97	1.01
Red Rock Wash	2365	100-yr	proposed - alternate	17209.00	3231.24	3236.30	3236.30	3237.43	0.012148	8.52	2024.03	903.68	1.02
Red Rock Wash	2365	100-yr	proposed main BRIDGE	17209.00	3231.24	3236.30	3236.30	3237.40	0.011835	8.24	2048.90	918.94	1.00
Red Rock Wash	2365	100-yr	proposed main CULVERT	17209.00	3231.24	3236.30	3236.30	3237.40	0.011835	8.24	2048.90	918.94	1.00
Red Rock Wash	2130	100-yr	existing	17209.00	3227.30	3232.81	3232.81	3234.06	0.010777	9.80	1953.29	750.26	1.01
Red Rock Wash	2130	100-yr	proposed - alternate	17209.00	3227.30	3232.81	3232.81	3234.06	0.010808	9.77	1956.26	763.11	1.01
Red Rock Wash	2130	100-yr	proposed main BRIDGE	17209.00	3227.30	3232.82	3232.82	3234.08	0.010719	9.80	1955.32	750.50	1.00
Red Rock Wash	2130	100-yr	proposed main CULVERT	17209.00	3227.30	3232.82	3232.82	3234.08	0.010719	9.80	1955.32	750.50	1.00
Red Rock Wash	1937	100-yr	existing	17209.00	3222.79	3229.07	3229.07	3230.49	0.008389	10.87	1923.65	628.83	0.94
Red Rock Wash	1937	100-yr	proposed - alternate	17209.00	3222.79	3229.07	3229.07	3230.48	0.008518	10.85	1919.43	630.40	0.95
Red Rock Wash	1937	100-yr	proposed main BRIDGE	17209.00	3222.79	3229.07	3229.07	3230.50	0.008457	10.91	1917.69	628.85	0.94
Red Rock Wash	1937	100-yr	proposed main CULVERT	17209.00	3222.79	3229.07	3229.07	3230.50	0.008457	10.91	1917.69	628.85	0.94
Red Rock Wash	1774	100-yr	existing	17209.00	3218.89	3225.61	3225.61	3227.35	0.009458	11.43	1672.40	469.83	1.00
Red Rock Wash	1774	100-yr	proposed - alternate	17209.00	3218.89	3225.62	3225.62	3227.37	0.009470	11.51	1670.21	468.63	1.00
Red Rock Wash	1774	100-yr	proposed main BRIDGE	17209.00	3218.89	3225.68	3225.68	3227.38	0.009076	11.33	1696.77	474.50	0.98
Red Rock Wash	1774	100-yr	proposed main CULVERT	17209.00	3218.89	3225.68	3225.68	3227.38	0.009076	11.33	1696.77	474.50	0.98
Red Rock Wash	1589	100-yr	existing	17209.00	3216.36	3222.82	3222.82	3224.68	0.008700	12.18	1639.19	427.12	0.99
Red Rock Wash	1589	100-yr	proposed - alternate	17209.00	3216.36	3222.82	3222.82	3224.68	0.008701	12.18	1639.18	427.12	0.99
Red Rock Wash	1589	100-yr	proposed main BRIDGE	17209.00	3216.36	3222.88	3222.88	3224.65	0.008275	11.98	1693.55	448.54	0.96
Red Rock Wash	1589	100-yr	proposed main CULVERT	17209.00	3216.36	3222.88	3222.88	3224.65	0.008275	11.98	1693.55	448.54	0.96
Red Rock Wash	1477	100-yr	existing	17209.00	3213.83	3221.96	3220.27	3222.91	0.002673	8.64	2296.04	405.47	0.58
Red Rock Wash	1477	100-yr	proposed - alternate	17209.00	3213.83	3222.00	3220.26	3222.93	0.002616	8.58	2311.77	405.66	0.57
Red Rock Wash	1477	100-yr	proposed main BRIDGE	17209.00	3213.83	3222.45	3220.32	3223.26	0.002102	8.02	2474.69	407.84	0.52
Red Rock Wash	1477	100-yr	proposed main CULVERT	17209.00	3213.83	3222.45	3220.32	3223.26	0.002102	8.02	2474.69	407.84	0.52
Red Rock Wash	1331	100-yr	existing	17209.00	3211.46	3219.87	3219.56	3222.33	0.005834	12.90	1429.37	247.73	0.86
Red Rock Wash	1331	100-yr	proposed - alternate	17209.00	3211.46	3220.28	3219.54	3222.43	0.004749	12.08	1530.91	250.21	0.78
Red Rock Wash	1331	100-yr	proposed main BRIDGE	17209.00	3211.46	3219.88	3219.52	3222.69	0.006410	13.53	1302.42	205.70	0.90
Red Rock Wash	1331	100-yr	proposed main CULVERT	17209.00	3211.46	3219.88	3219.52	3222.69	0.006410	13.53	1302.42	205.70	0.90

HEC-RAS River: Red Rock Wash Reach: Red Rock Wash Profile: 100-yr (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Red Rock Wash	1277	100-yr	existing	17209.00	3210.46	3220.75	3217.80	3221.78	0.001995	8.18	2129.43	276.86	0.51
Red Rock Wash	1277	100-yr	proposed - alternate	17209.00	3210.46	3220.84	3218.14	3222.00	0.002360	8.67	1985.79	259.22	0.55
Red Rock Wash	1277	100-yr	proposed main BRIDGE	17209.00	3210.46	3220.33	3218.04	3221.91	0.002748	10.12	1726.22	235.00	0.61
Red Rock Wash	1277	100-yr	proposed main CULVERT	17209.00	3210.46	3220.33	3218.04	3221.91	0.002748	10.12	1726.22	235.00	0.61
Red Rock Wash	1226	100-yr	existing	17209.00	3209.90	3219.50	3217.61	3221.38	0.003282	11.08	1590.10	206.29	0.67
Red Rock Wash	1226	100-yr	proposed - alternate	17209.00	3210.00	3219.67	3217.95	3221.61	0.003536	11.25	1563.29	203.69	0.68
Red Rock Wash	1226	100-yr	proposed main BRIDGE	17209.00	3209.90	3219.51	3217.61	3221.38	0.003278	11.08	1590.78	206.31	0.67
Red Rock Wash	1226	100-yr	proposed main CULVERT	17209.00	3209.90	3219.51	3217.61	3221.38	0.003278	11.08	1590.78	206.31	0.67
Red Rock Wash	1190			Bridge									
Red Rock Wash	1158	100-yr	existing	17209.00	3208.87	3216.80	3216.80	3219.96	0.008184	14.27	1206.18	189.20	1.00
Red Rock Wash	1158	100-yr	proposed - alternate	17209.00	3208.87	3216.80	3216.80	3219.96	0.008184	14.27	1206.18	189.20	1.00
Red Rock Wash	1158	100-yr	proposed main BRIDGE	17209.00	3208.87	3216.80	3216.80	3219.96	0.008184	14.27	1206.18	189.20	1.00
Red Rock Wash	1158	100-yr	proposed main CULVERT	17209.00	3208.87	3216.80	3216.80	3219.96	0.008184	14.27	1206.18	189.20	1.00
Red Rock Wash	1119	100-yr	existing	17209.00	3205.63	3213.60	3213.24	3216.38	0.006989	13.38	1285.93	196.90	0.92
Red Rock Wash	1119	100-yr	proposed - alternate	17209.00	3205.63	3213.60	3213.24	3216.38	0.006989	13.38	1285.93	196.90	0.92
Red Rock Wash	1119	100-yr	proposed main BRIDGE	17209.00	3205.63	3213.60	3213.24	3216.38	0.006989	13.38	1285.93	196.90	0.92
Red Rock Wash	1119	100-yr	proposed main CULVERT	17209.00	3205.63	3213.60	3213.24	3216.38	0.006989	13.38	1285.93	196.90	0.92
Red Rock Wash	1000	100-yr	existing	17209.00	3204.70	3214.45	3211.01	3215.48	0.001793	8.16	2154.53	467.58	0.49
Red Rock Wash	1000	100-yr	proposed - alternate	17209.00	3204.70	3214.45	3211.01	3215.48	0.001793	8.16	2154.53	467.58	0.49
Red Rock Wash	1000	100-yr	proposed main BRIDGE	17209.00	3204.70	3214.45	3211.01	3215.48	0.001793	8.16	2154.53	467.58	0.49
Red Rock Wash	1000	100-yr	proposed main CULVERT	17209.00	3204.70	3214.45	3211.01	3215.48	0.001793	8.16	2154.53	467.58	0.49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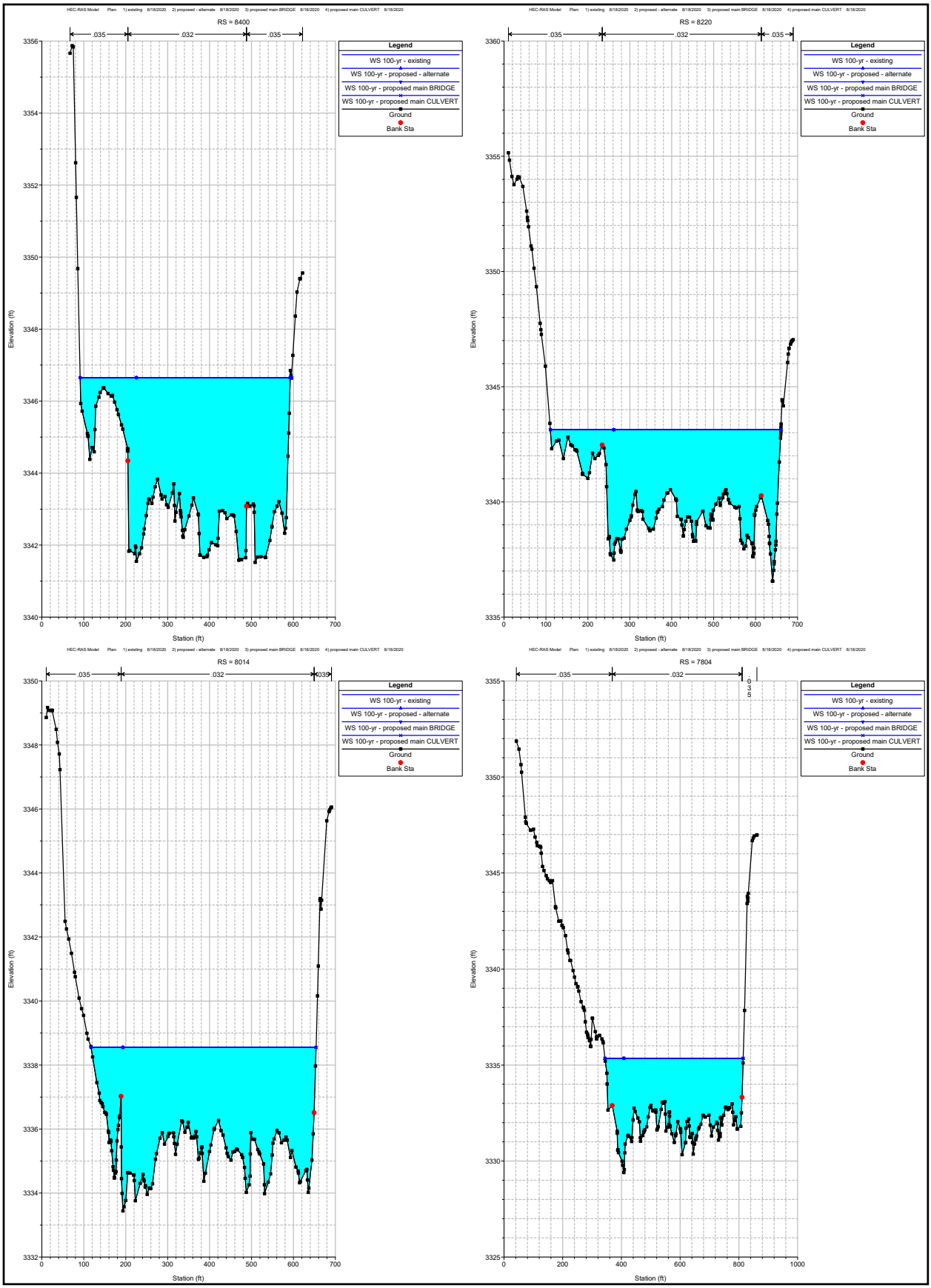
RS = 9174
.035
.032
.035
Legend
WS 100-yr - existing
WS 100-yr - proposed - alternate
WS 100-yr - proposed main BRIDGE
WS 100-yr - proposed main CULVERT
Ground
Bank Sta
Elevation (ft)
Station (ft)
RS = 9002
RS = 8797
RS = 8567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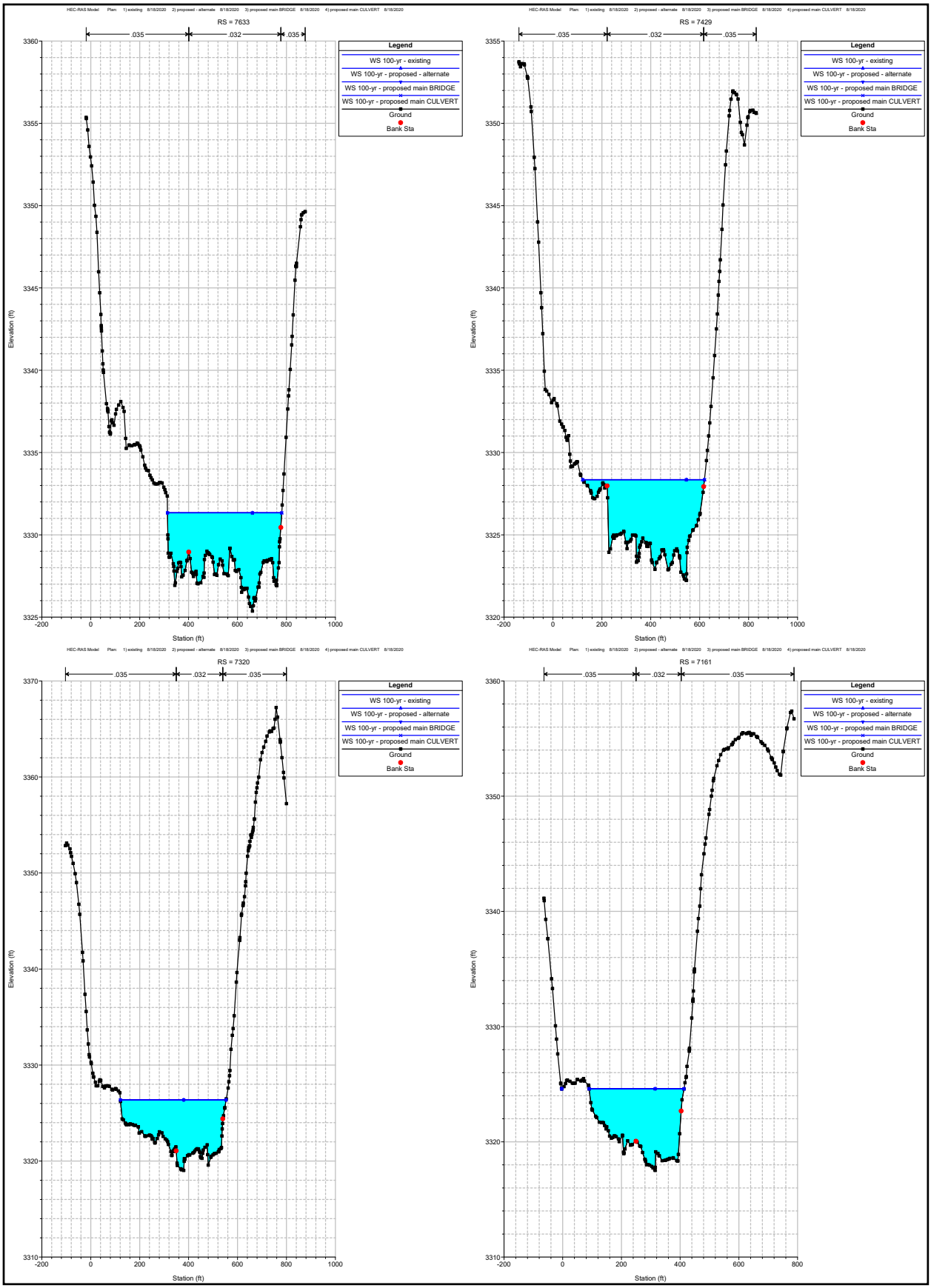
RS = 8400
.035
.032
.035
Legend
WS 100-yr - existing
WS 100-yr - proposed - alternate
WS 100-yr - proposed main BRIDGE
WS 100-yr - proposed main CULVERT
Ground
Bank Sta
Elevation (ft)
Station (ft)
RS = 8220
RS = 8014
RS = 7804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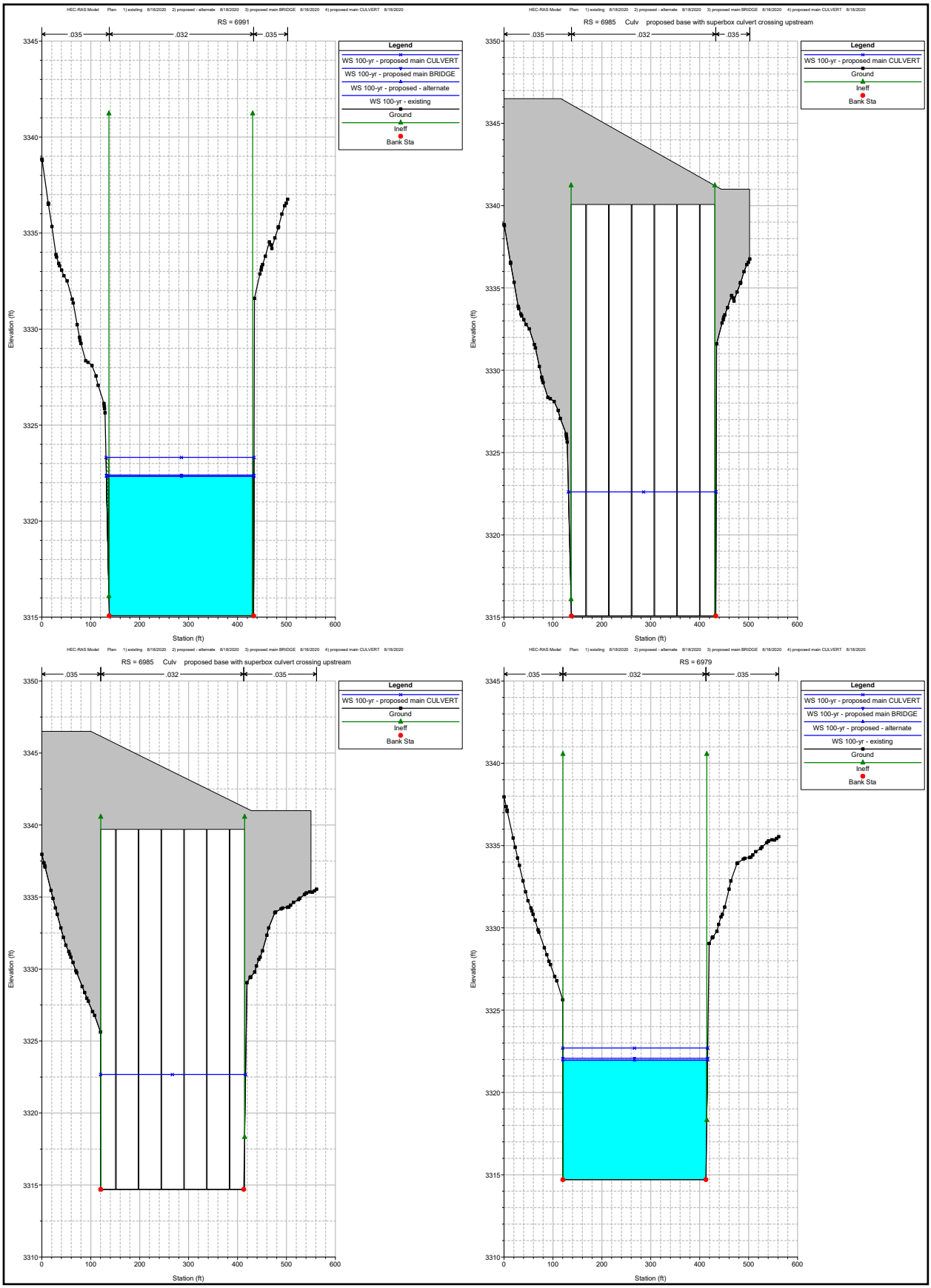
RS = 7633
.035
.032
.035
Legend
WS 100-yr - existing
WS 100-yr - proposed - alternate
WS 100-yr - proposed main BRIDGE
WS 100-yr - proposed main CULVERT
Ground
Bank Sta
Elevation (ft)
Station (ft)
RS = 7429
RS = 7320
RS = 7161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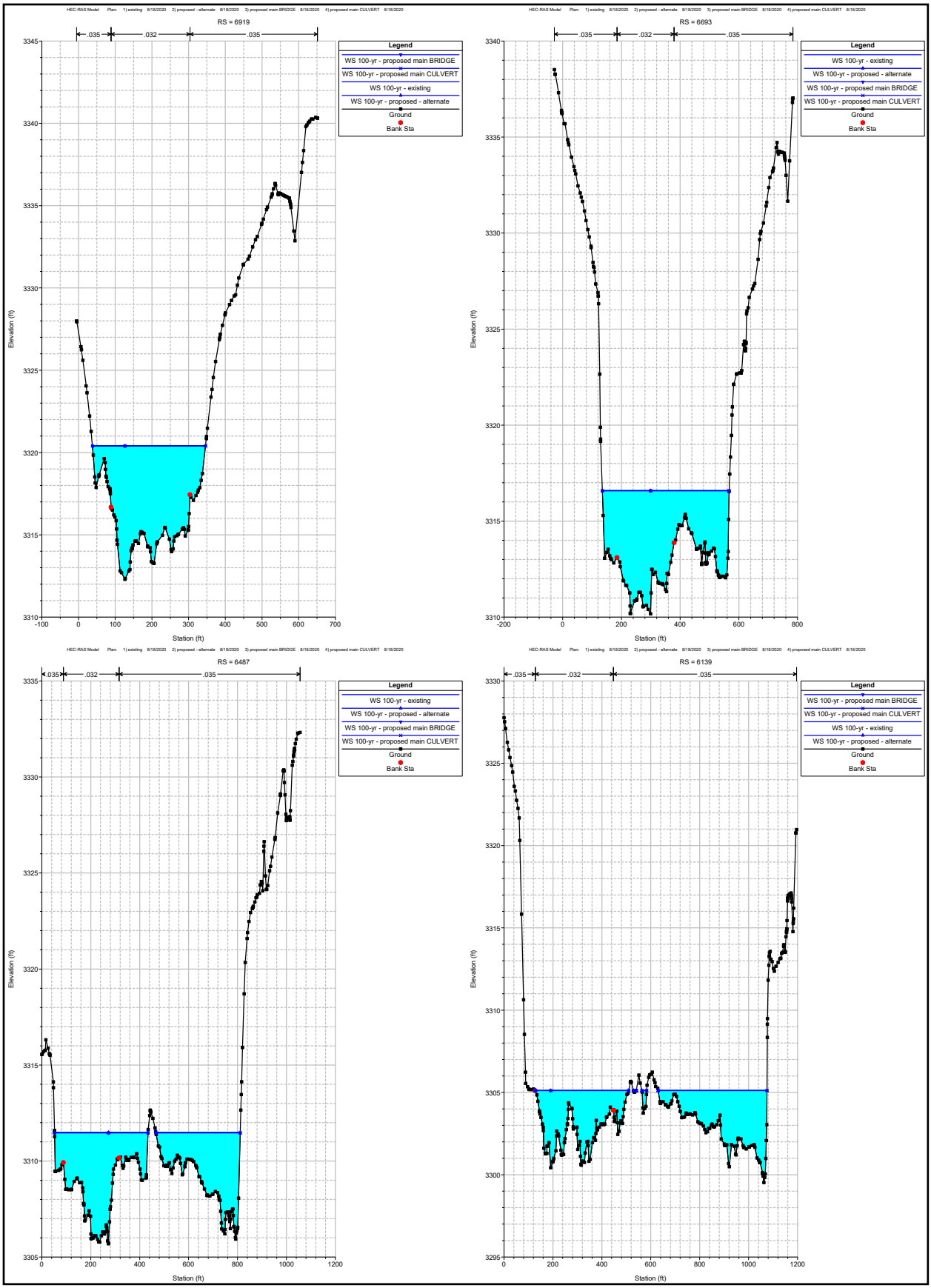
RS = 6991
.035
.032
.035
Legend
WS 100-yr - proposed main CULVERT
WS 100-yr - proposed main BRIDGE
WS 100-yr - proposed - alternate
WS 100-yr - existing
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)
HEC-RAS Model Plan: 1) existing 8/18/2020 2) proposed - alternate 8/18/2020 3) proposed main BRIDGE 8/18/2020 4) proposed main CULVERT 8/18/2020
RS = 6985 Culv proposed base with superbox culvert crossing upstream
.035
.032
.035
Legend
WS 100-yr - proposed main CULVERT
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)
HEC-RAS Model Plan: 1) existing 8/18/2020 2) proposed - alternate 8/18/2020 3) proposed main BRIDGE 8/18/2020 4) proposed main CULVERT 8/18/2020
RS = 6985 Culv proposed base with superbox culvert crossing upstream
.035
.032
.035
Legend
WS 100-yr - proposed main CULVERT
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)
HEC-RAS Model Plan: 1) existing 8/18/2020 2) proposed - alternate 8/18/2020 3) proposed main BRIDGE 8/18/2020 4) proposed main CULVERT 8/18/2020
RS = 6979
.035
.032
.035
Legend
WS 100-yr - proposed main CULVERT
WS 100-yr - proposed main BRIDGE
WS 100-yr - proposed - alternate
WS 100-yr - existing
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)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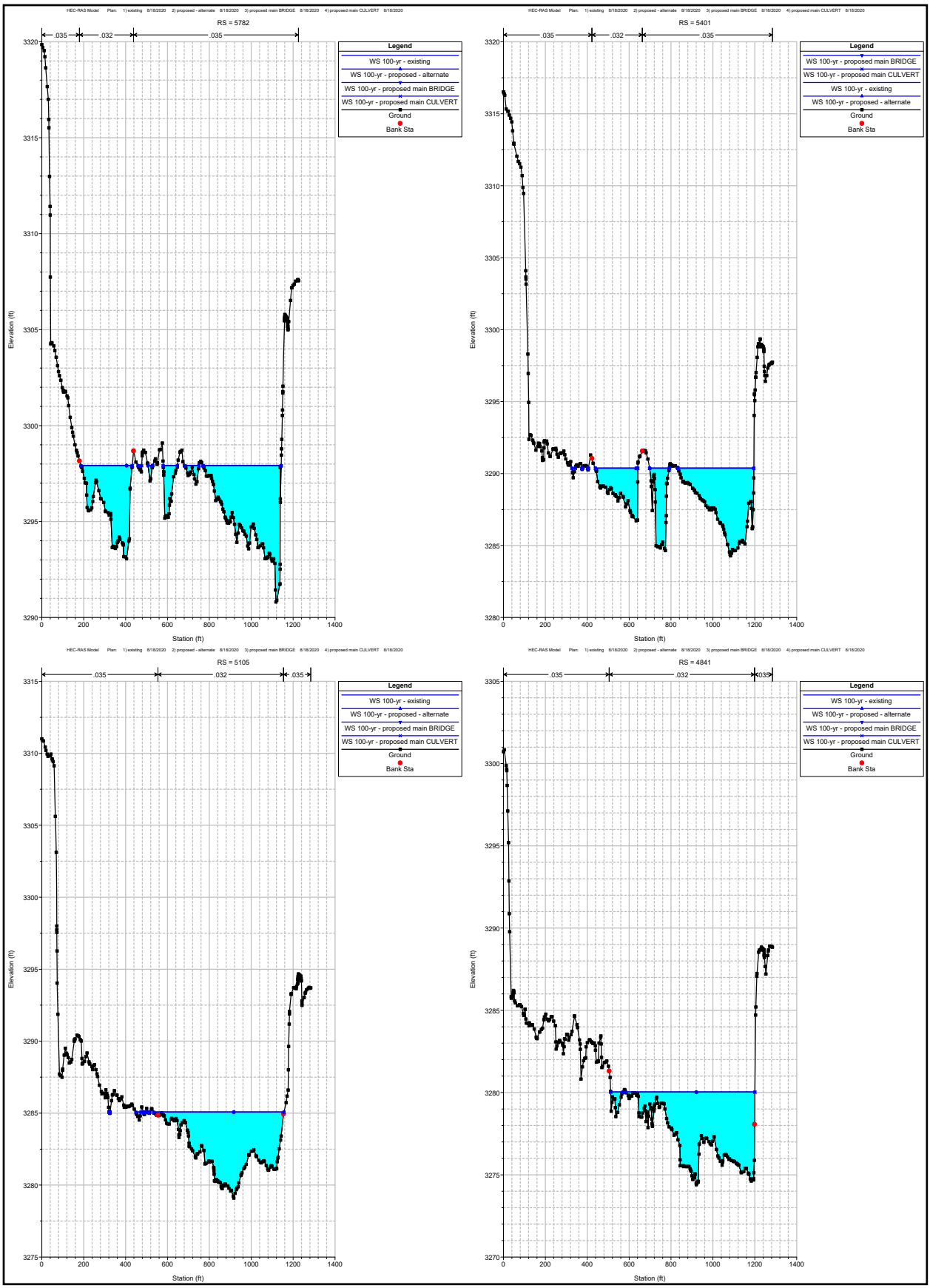
RS = 6919
.035
.032
.035
Legend
WS 100-yr - proposed main BRIDGE
WS 100-yr - proposed main CULVERT
WS 100-yr - existing
WS 100-yr - proposed - alternate
Ground
Bank Sta
Elevation (ft)
Station (ft)
RS = 6693
WS 100-yr - existing
WS 100-yr - proposed - alternate
WS 100-yr - proposed main BRIDGE
WS 100-yr - proposed main CULVERT
RS = 6487
RS = 6139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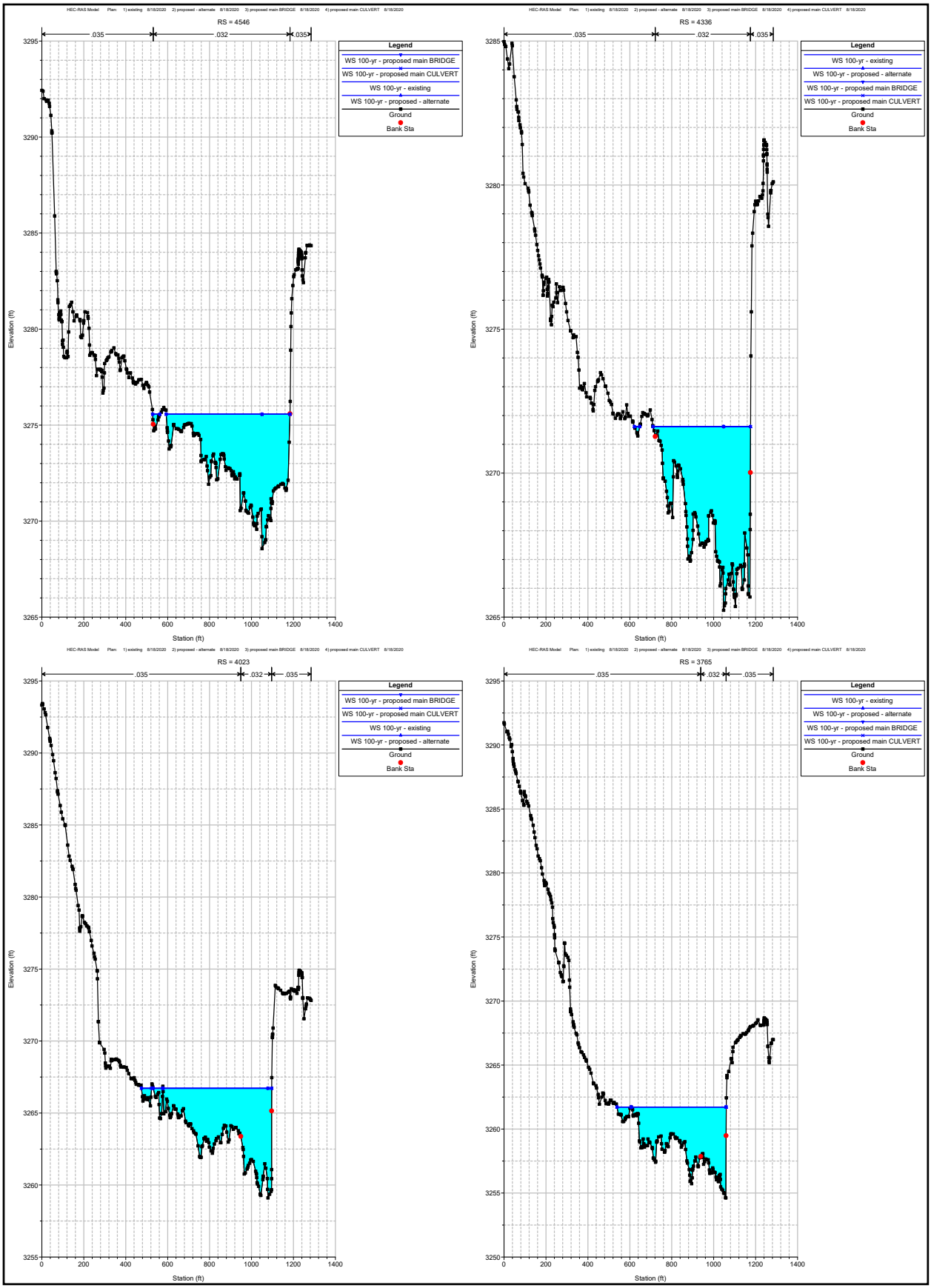
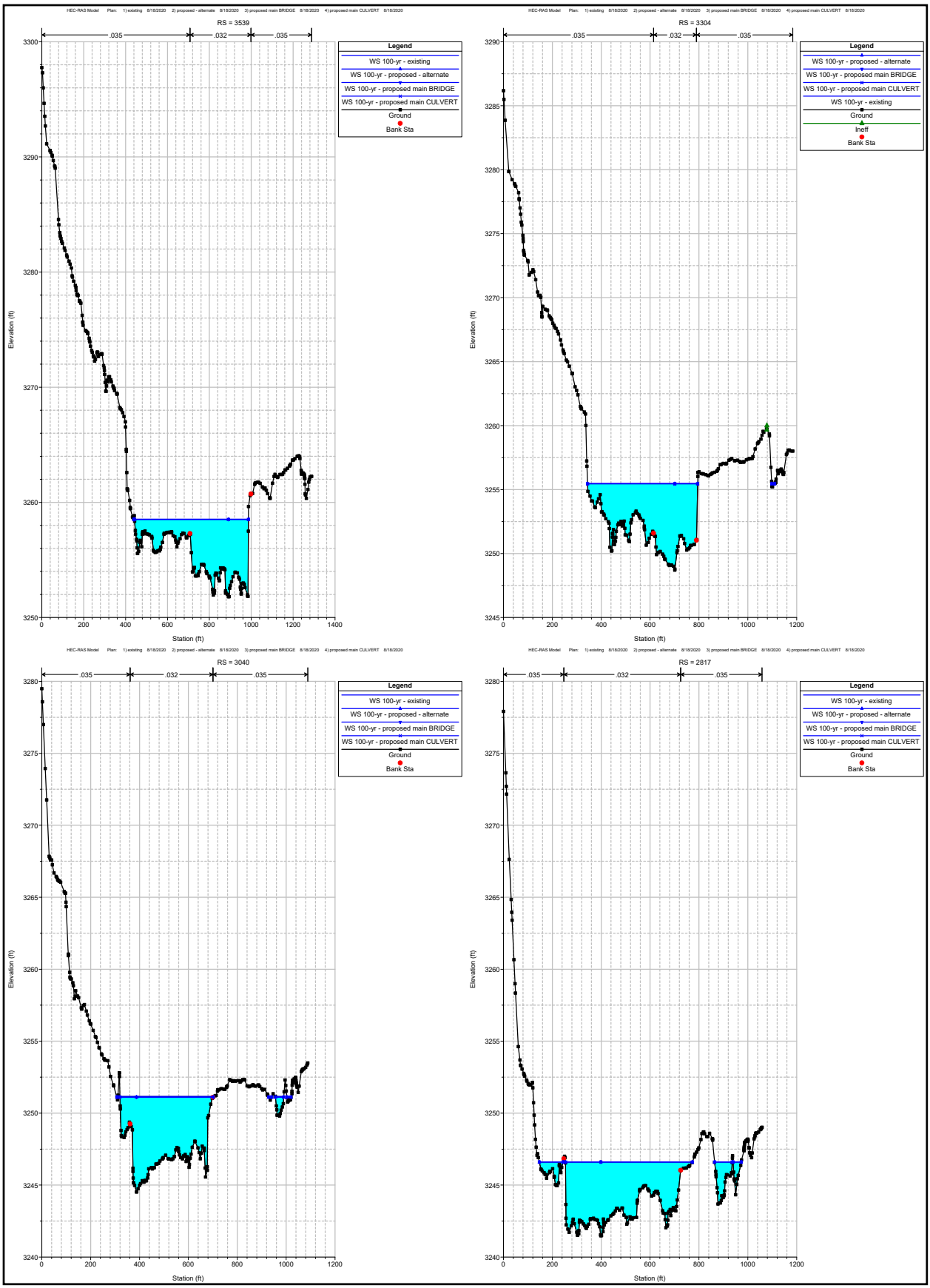
RS = 5782
.035
.032
.035
Legend
WS 100-yr - existing
WS 100-yr - proposed - alternate
WS 100-yr - proposed main BRIDGE
WS 100-yr - proposed main CULVERT
Ground
Bank Sta
Elevation (ft)
Station (ft)
RS = 5401
WS 100-yr - proposed main BRIDGE
WS 100-yr - proposed main CULVERT
WS 100-yr - existing
WS 100-yr - proposed - alternate
RS = 5105
RS = 4841


HEC-RAS Model Plan: 1) existing 8/18/2020 2) proposed - alternate 8/18/2020 3) proposed main BRIDGE 8/18/2020 4) proposed main CULVERT 8/18/2020
RS = 4546
.035
.032
.035
Legend
WS 100-yr - proposed main BRIDGE
WS 100-yr - proposed main CULVERT
WS 100-yr - existing
WS 100-yr - proposed - alternate
Ground
Bank Sta
Elevation (ft)
Station (ft)
RS = 4336
Legend
WS 100-yr - existing
WS 100-yr - proposed - alternate
WS 100-yr - proposed main BRIDGE
WS 100-yr - proposed main CULVERT
Ground
Bank Sta
RS = 4023
RS = 3765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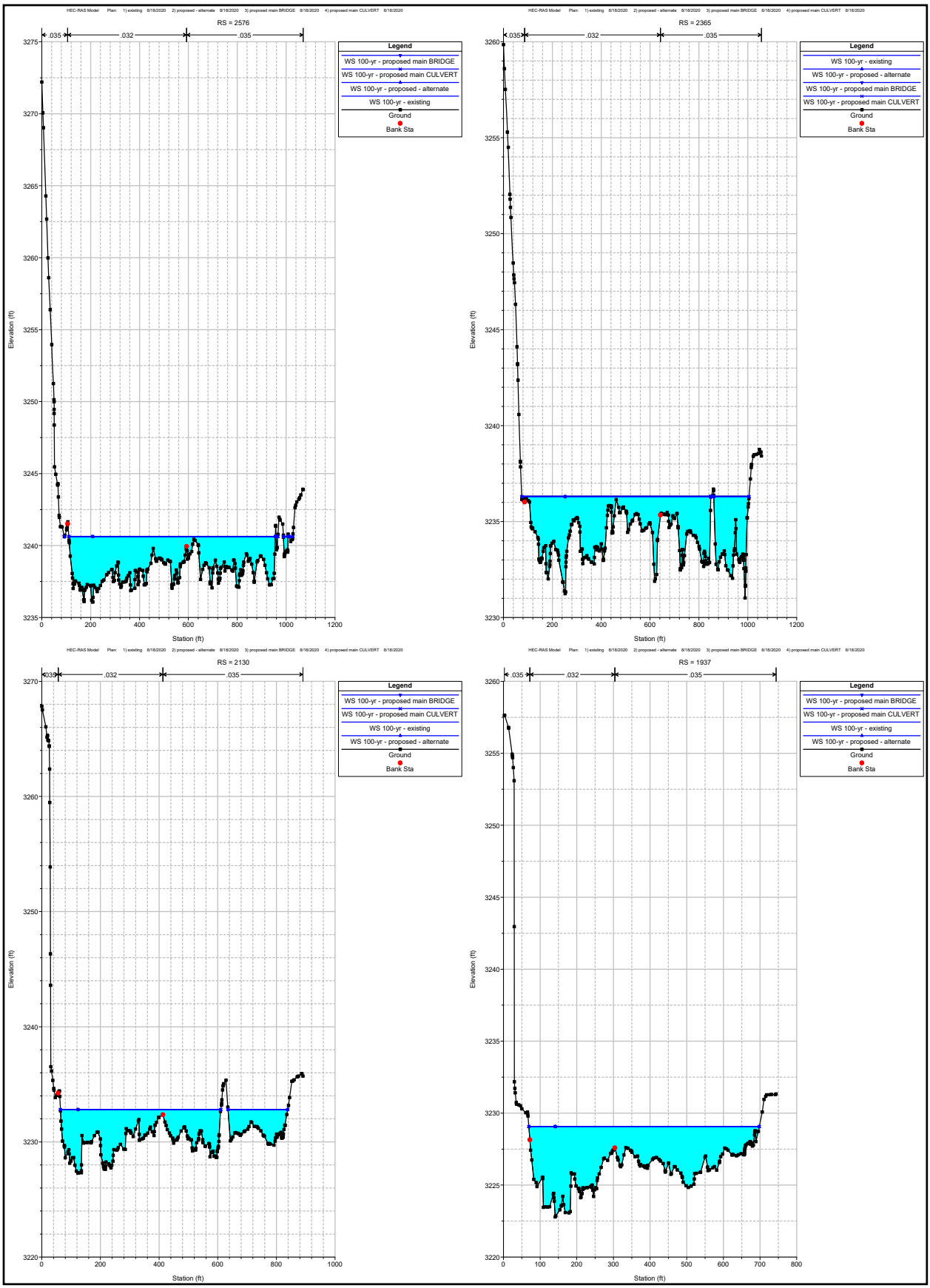
RS = 3539
.035
.032
.035
Legend
WS 100-yr - existing
WS 100-yr - proposed - alternate
WS 100-yr - proposed main BRIDGE
WS 100-yr - proposed main CULVERT
Ground
Bank Sta
Elevation (ft)
Station (ft)
RS = 3304
Legend
WS 100-yr - proposed - alternate
WS 100-yr - proposed main BRIDGE
WS 100-yr - proposed main CULVERT
WS 100-yr - existing
Ground
Ineff
Bank Sta
RS = 3040
RS = 2817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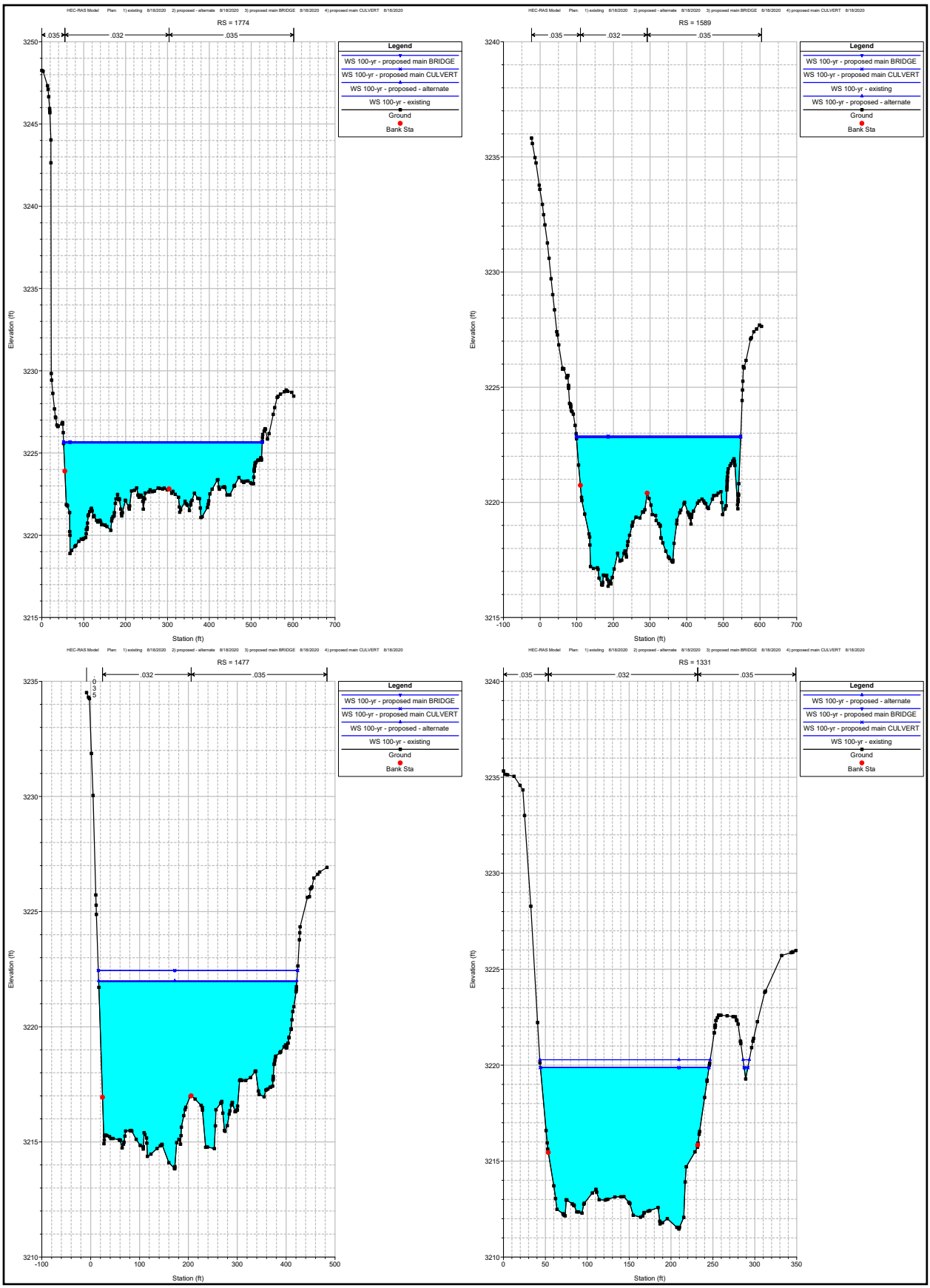
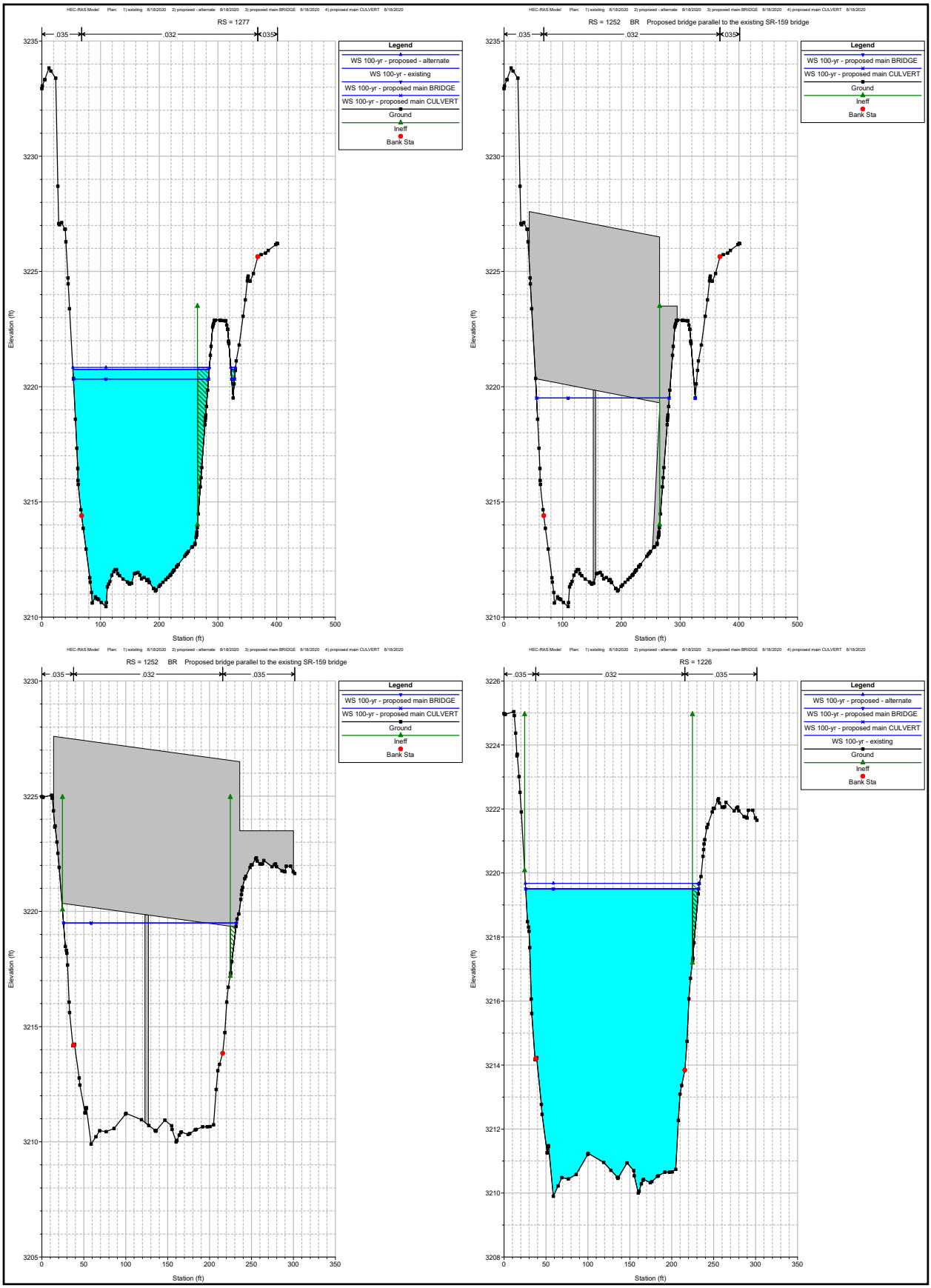
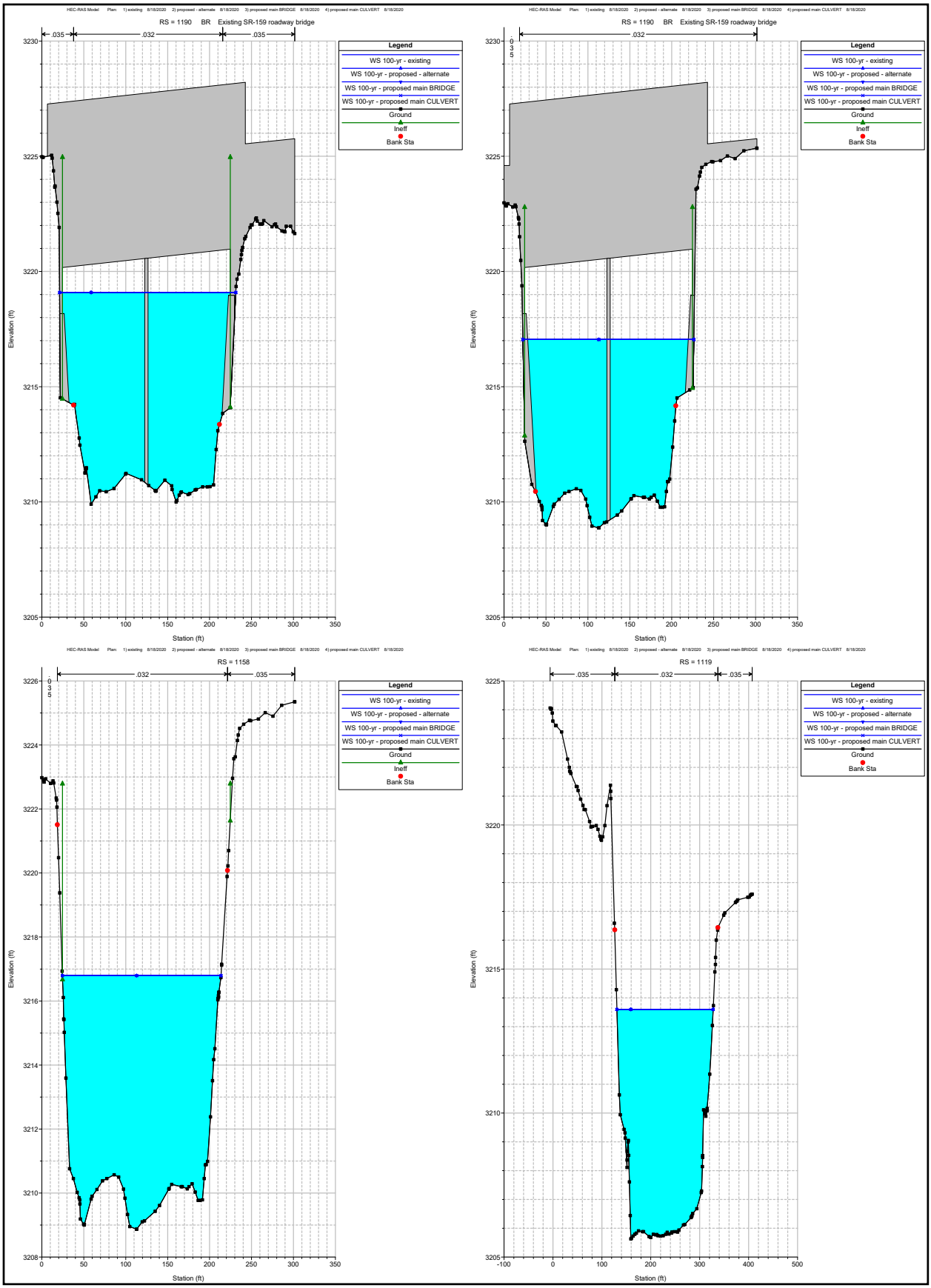
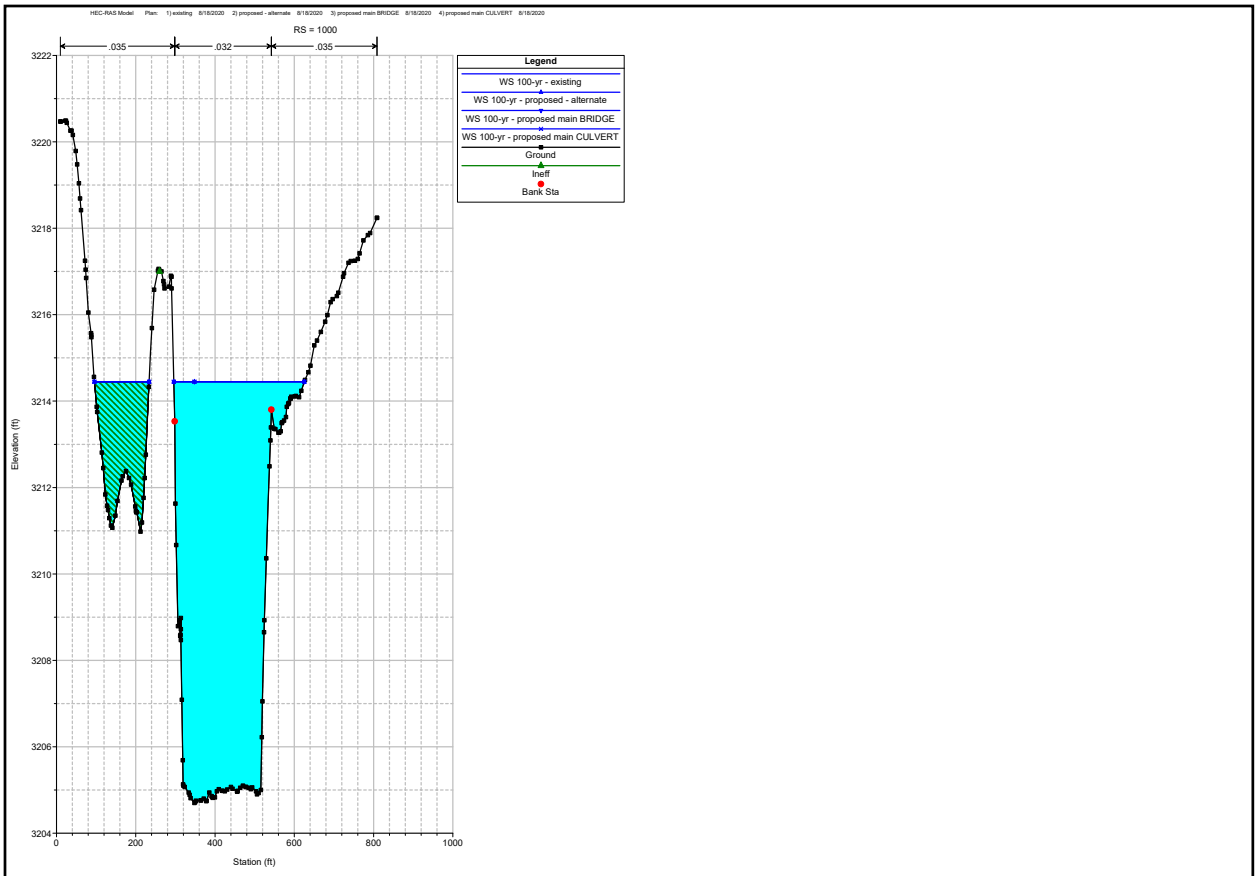
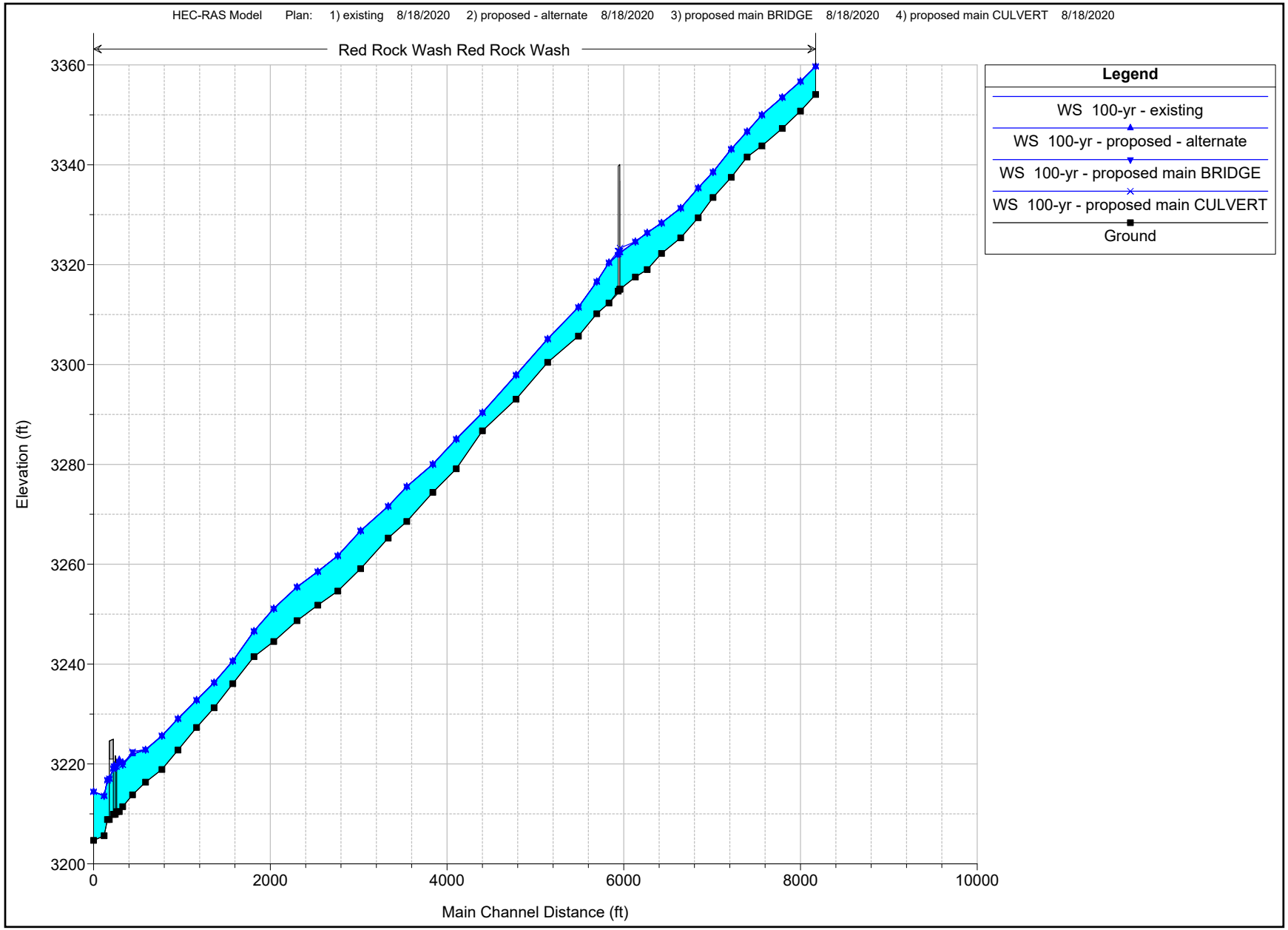
RS = 2576
.035
.032
.035
Legend
WS 100-yr - proposed main BRIDGE
WS 100-yr - proposed main CULVERT
WS 100-yr - proposed - alternate
WS 100-yr - existing
Ground
Bank Sta
Elevation (ft)
Station (ft)
HEC-RAS Model Plan: 1) existing 8/18/2020 2) proposed - alternate 8/18/2020 3) proposed main BRIDGE 8/18/2020 4) proposed main CULVERT 8/18/2020
RS = 2365
.035
.032
.035
Legend
WS 100-yr - existing
WS 100-yr - proposed - alternate
WS 100-yr - proposed main BRIDGE
WS 100-yr - proposed main CULVERT
Ground
Bank Sta
Elevation (ft)
Station (ft)
HEC-RAS Model Plan: 1) existing 8/18/2020 2) proposed - alternate 8/18/2020 3) proposed main BRIDGE 8/18/2020 4) proposed main CULVERT 8/18/2020
RS = 2130
.035
.032
.035
Legend
WS 100-yr - proposed main BRIDGE
WS 100-yr - proposed main CULVERT
WS 100-yr - existing
WS 100-yr - proposed - alternate
Ground
Bank Sta
Elevation (ft)
Station (ft)
HEC-RAS Model Plan: 1) existing 8/18/2020 2) proposed - alternate 8/18/2020 3) proposed main BRIDGE 8/18/2020 4) proposed main CULVERT 8/18/2020
RS = 1937
.035
.032
.035
Legend
WS 100-yr - proposed main BRIDGE
WS 100-yr - proposed main CULVERT
WS 100-yr - existing
WS 100-yr - proposed - alternate
Ground
Bank Sta
Elevation (ft)
Station (ft)


HEC-RAS Model Plan: 1) existing 8/18/2020 2) proposed - alternate 8/18/2020 3) proposed main BRIDGE 8/18/2020 4) proposed main CULVERT 8/18/2020
RS = 1774
.035
.032
.035
Legend
WS 100-yr - proposed main BRIDGE
WS 100-yr - proposed main CULVERT
WS 100-yr - proposed - alternate
WS 100-yr - existing
Ground
Bank Sta
Elevation (ft)
Station (ft)
HEC-RAS Model Plan: 1) existing 8/18/2020 2) proposed - alternate 8/18/2020 3) proposed main BRIDGE 8/18/2020 4) proposed main CULVERT 8/18/2020
RS = 1589
.035
.032
.035
Legend
WS 100-yr - proposed main BRIDGE
WS 100-yr - proposed main CULVERT
WS 100-yr - existing
WS 100-yr - proposed - alternate
Ground
Bank Sta
Elevation (ft)
Station (ft)
HEC-RAS Model Plan: 1) existing 8/18/2020 2) proposed - alternate 8/18/2020 3) proposed main BRIDGE 8/18/2020 4) proposed main CULVERT 8/18/2020
RS = 1477
.032
.035
Legend
WS 100-yr - proposed main BRIDGE
WS 100-yr - proposed main CULVERT
WS 100-yr - proposed - alternate
WS 100-yr - existing
Ground
Bank Sta
Elevation (ft)
Station (ft)
HEC-RAS Model Plan: 1) existing 8/18/2020 2) proposed - alternate 8/18/2020 3) proposed main BRIDGE 8/18/2020 4) proposed main CULVERT 8/18/2020
RS = 1331
.035
.032
.035
Legend
WS 100-yr - proposed - alternate
WS 100-yr - proposed main BRIDGE
WS 100-yr - proposed main CULVERT
WS 100-yr - existing
Ground
Bank Sta
Elevation (ft)
Station (ft)


HEC-RAS Model Plan: 1) existing 8/18/2020 2) proposed - alternate 8/18/2020 3) proposed main BRIDGE 8/18/2020 4) proposed main CULVERT 8/18/2020
RS = 1277
.035
.032
.035
Legend
WS 100-yr - proposed - alternate
WS 100-yr - existing
WS 100-yr - proposed main BRIDGE
WS 100-yr - proposed main CULVERT
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)
HEC-RAS Model Plan: 1) existing 8/18/2020 2) proposed - alternate 8/18/2020 3) proposed main BRIDGE 8/18/2020 4) proposed main CULVERT 8/18/2020
RS = 1252 BR Proposed bridge parallel to the existing SR-159 bridge
.035
.032
.035
Legend
WS 100-yr - proposed main BRIDGE
WS 100-yr - proposed main CULVERT
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)
HEC-RAS Model Plan: 1) existing 8/18/2020 2) proposed - alternate 8/18/2020 3) proposed main BRIDGE 8/18/2020 4) proposed main CULVERT 8/18/2020
RS = 1252 BR Proposed bridge parallel to the existing SR-159 bridge
.035
.032
.035
Legend
WS 100-yr - proposed main BRIDGE
WS 100-yr - proposed main CULVERT
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)
HEC-RAS Model Plan: 1) existing 8/18/2020 2) proposed - alternate 8/18/2020 3) proposed main BRIDGE 8/18/2020 4) proposed main CULVERT 8/18/2020
RS = 1226
.035
.032
.035
Legend
WS 100-yr - proposed - alternate
WS 100-yr - proposed main BRIDGE
WS 100-yr - proposed main CULVERT
WS 100-yr - existing
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)


HEC-RAS Model Plan: 1) existing 8/18/2020 2) proposed - alternate 8/18/2020 3) proposed main BRIDGE 8/18/2020 4) proposed main CULVERT 8/18/2020
RS = 1190 BR Existing SR-159 roadway bridge
.035
.032
.035
Legend
WS 100-yr - existing
WS 100-yr - proposed - alternate
WS 100-yr - proposed main BRIDGE
WS 100-yr - proposed main CULVERT
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)
HEC-RAS Model Plan: 1) existing 8/18/2020 2) proposed - alternate 8/18/2020 3) proposed main BRIDGE 8/18/2020 4) proposed main CULVERT 8/18/2020
RS = 1190 BR Existing SR-159 roadway bridge
.032
Legend
WS 100-yr - existing
WS 100-yr - proposed - alternate
WS 100-yr - proposed main BRIDGE
WS 100-yr - proposed main CULVERT
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)
HEC-RAS Model Plan: 1) existing 8/18/2020 2) proposed - alternate 8/18/2020 3) proposed main BRIDGE 8/18/2020 4) proposed main CULVERT 8/18/2020
RS = 1158
.032
.035
Legend
WS 100-yr - existing
WS 100-yr - proposed - alternate
WS 100-yr - proposed main BRIDGE
WS 100-yr - proposed main CULVERT
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)
HEC-RAS Model Plan: 1) existing 8/18/2020 2) proposed - alternate 8/18/2020 3) proposed main BRIDGE 8/18/2020 4) proposed main CULVERT 8/18/2020
RS = 1119
.035
.032
.035
Legend
WS 100-yr - existing
WS 100-yr - proposed - alternate
WS 100-yr - proposed main BRIDGE
WS 100-yr - proposed main CULVERT
Ground
Bank Sta
Elevation (ft)
Station (ft)


HEC-RAS Model Plan: 1) existing 8/18/2020 2) proposed - alternate 8/18/2020 3) proposed main BRIDGE 8/18/2020 4) proposed main CULVERT 8/18/2020
RS = 1000
.035
.032
.035
Legend
WS 100-yr - existing
WS 100-yr - proposed - alternate
WS 100-yr - proposed main BRIDGE
WS 100-yr - proposed main CULVERT
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)
3222
3220
3218
3216
3214
3212
3210
3208
3206
3204
0
200
400
600
800
1000


HEC-RAS Model Plan: 1) existing 8/18/2020 2) proposed - alternate 8/18/2020 3) proposed main BRIDGE 8/18/2020 4) proposed main CULVERT 8/18/2020
Red Rock Wash Red Rock Wash
Legend
WS 100-yr - existing
WS 100-yr - proposed - alternate
WS 100-yr - proposed main BRIDGE
WS 100-yr - proposed main CULVERT
Ground
Elevation (ft)
3360
3340
3320
3300
3280
3260
3240
3220
3200
0
2000
4000
6000
8000
10000
Main Channel Distance (ft)