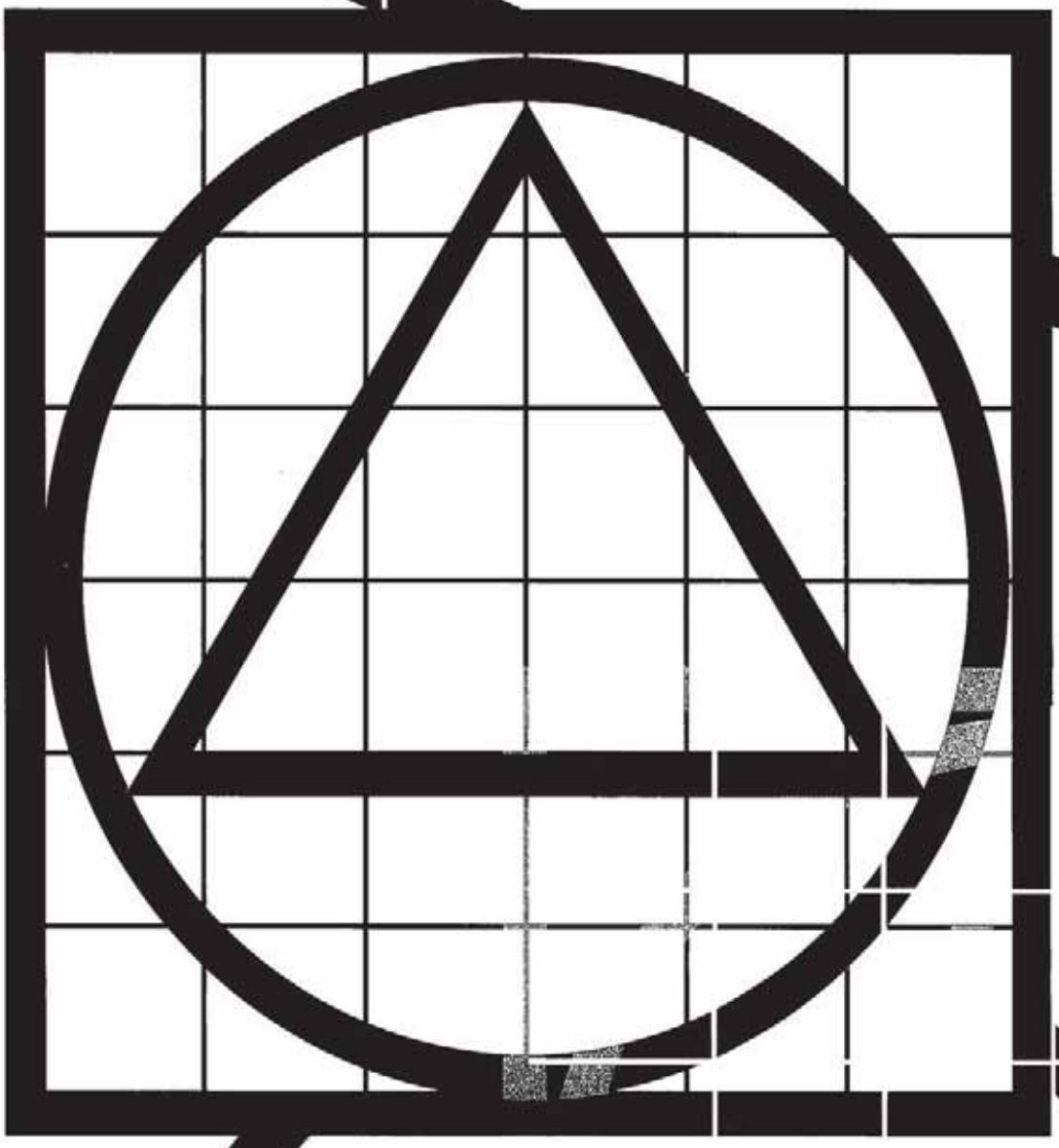
RICK ENGINEERING COMPANY

HYDROLOGIC AND HYDRAULIC STUDY
FOR
COAST HIGHWAY 101
INTERIM STORM DRAIN IMPROVEMENTS
ENCINITAS, CALIFORNIA

Job Number 14413
November 18, 2003



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INTRODUCTION

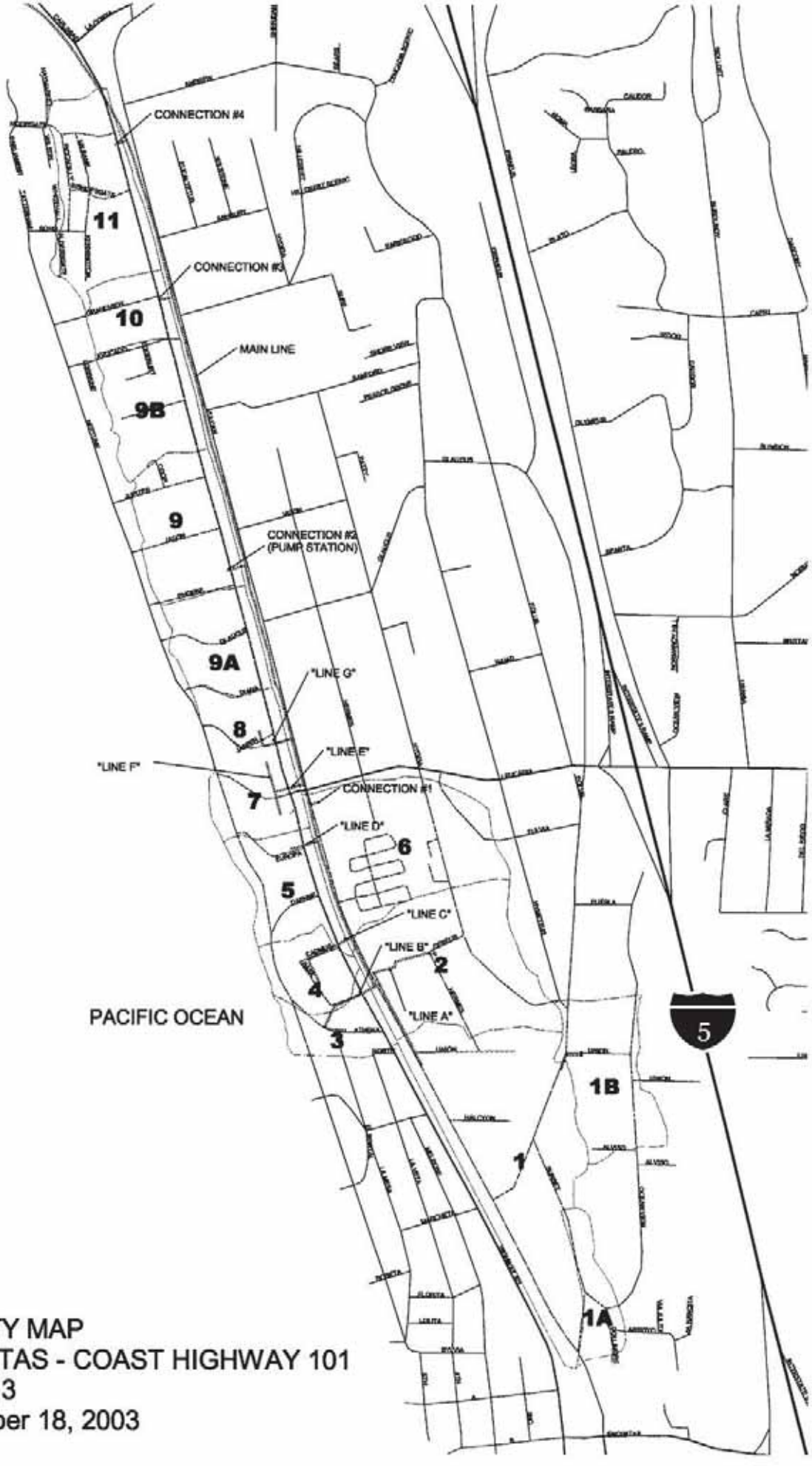
The City of Encinitas initiated this hydrologic and hydraulic study to analyze inundation of City streets and private properties during frequent storm events (up to 5-year) in the Leucadia area in the City of Encinitas. Flooding has historically occurred in this area along and adjacent to Highway 101, between Encinitas Boulevard and La Costa Avenue. The study area is shown on the vicinity map on page 2.

The existing topography within the Leucadia area consists of several sumps west of and parallel to Highway 101. Many of these sumps did not historically contain storm drain systems. In addition, many of the streets within the watershed areas do not have curb and gutter, which contributes to overland flow to Highway 101 and the adjacent sump areas. These drainage patterns historically resulted in ponding within the sumps during any storm events that produced runoff until the runoff eventually infiltrated into the ground, evaporated, or was otherwise removed from the sump areas.

A storm drain system was installed in 2001 that connected these sump areas to the main line in Coast Highway 101. Storm events exceeding a 1-year storm overtaxed the system. Therefore, the City of Encinitas has initiated further enhancement of this system to increase its capacity and reduce the extent of flooding along Highway 101.

Overall improved performance of the storm drain system will be achieved by allowing storm runoff to be stored in the existing sump areas to regulate the rate at which flow enters the storm drain system. As storm runoff ponds in existing sump areas, runoff will be released into the storm drain system at a controlled rate. This storage is essential to the functionality of the system. Regulating flow will aid in the prevention of overtaxing the downstream storm drain system during frequent storm events, which will result in lower ponded water elevations and constant drainage. Although the interim improvements allow some inundation of City streets and properties, it is the City's first priority to resolve flooding of these areas when investigating potential long-term improvements.

This report discusses the historic drainage patterns and the interim enhancements to the storm drain system, in place as of November 2003. While priority has been placed on completing the interim improvements to minimize ponding during smaller, more frequent, storms, the City is actively pursuing the design of a long-term drainage solution that is focused on alleviating inundation of City streets and private properties during larger storm events.



VICINITY MAP
ENCINITAS - COAST HIGHWAY 101
J# 14413
November 18, 2003

HYDROLOGIC ANALYSIS

The U.S. Army Corps of Engineers HEC-1 computer program was used for the hydrologic analysis of the Leucadia area along Highway 101 between Encinitas Boulevard and La Costa Avenue. The HEC-1 model is designed to simulate the surface runoff response to precipitation within the drainage basin. HEC-1 also has the capability to model the effects of detention and storage of runoff within a watershed.

The HEC-1 analyses were based on the Natural Resources Conservation Service (NRCS) hydrologic method (formerly known as the Soil Conservation Service [SCS] hydrologic method) outlined in the *2003 San Diego County Hydrology Manual*. HEC-1 hydrologic analyses were performed for the historic condition (pre-2001 storm drain improvements) and the improved (interim) condition (post-2003 storm drain enhancements).

HEC-1 Parameters

Rainfall Distribution

Hydrographs for each basin were developed using a 5-year frequency, 24-hour return period, nested rainfall distribution. The nested storm distribution supersedes both the Type B and Type C rainfall distributions outlined in the *1993 San Diego County Hydrology Manual*. A limitation of the Type B and Type C distributions was that each distribution was applicable to the 6-hour and 24-hour durations only, and required separate analyses to be prepared for each duration. In most cases, the 6-hour storm duration produced a higher peak flow rate, while the 24-hour storm duration generated a greater runoff volume. Use of the nested storm pattern eliminates the need for separate analyses for 6-hour and 24-hour storm durations.

The total precipitation amounts for the 5-year storm event with 6-hour and 24-hour duration periods were obtained from the County of San Diego isopluvial maps included in Appendix A.

Watershed Boundaries

The watershed areas were delineated from digital topography flown in July 2001, provided by the City of Encinitas. Watershed delineations were field verified to improve accuracy. The total watershed area tributary to the Leucadia area storm drain system is approximately 0.49 square miles. Please refer to the Hydrology Workmap for Coast Highway 101 located in Map Pocket 1 for the watershed boundaries.

Curve Number

The composite curve number (CN) for each basin is based the soil type, land use coverage, and precipitation zone number. The CN calculations for each basin and associated support data is included in Appendix A.

Soil Type

The soil type information was obtained from the San Diego Association of Governments (SANDAG) in Geographic Information System (GIS) format. The soil type is based on the United States Department of Agricultural Soil Survey for San Diego County, and consists mainly of Type A soil. The Soil Survey map is shown in Appendix A.

Land Use

The land use coverage information was obtained from the SANDAG in GIS format. The land use data is 1995 existing land use based on 1995 color infrared satellite imagery, 1994/1995 black and white digital orthophoto quads, SanGIS landbase (registration) and miscellaneous sources. The Land Use map is shown in Appendix A.

To supplement the land use data for the watershed, review of aerial photographs showed that the ground cover of the Leucadia area is mostly developed and generally has higher imperviousness than is indicated by the land use maps. Therefore, the curve number calculation was appropriately adjusted for each basin.

Precipitation Zone Number

The CN was adjusted for the precipitation zone number (PZN) condition of 1.5 as outlined in the *2003 San Diego County Hydrology Manual*. The PZN condition is a function of the County of San Diego precipitation zone number map, also included in Appendix A.

Lag Time

The lag time was first calculated based upon criteria developed by the United States Army Corps of Engineers (USACOE). The USACOE lag time is an empirical relationship of the physical characteristics of a drainage area in terms of time. The USACOE emperical relationship produced uncharacteristically short lag times for each basin. Therefore, the lag times for each watershed were determined based on the Natural Resources Conservation Service (NRCS) method using a calculated time of concentration. Lag calculations are included in Appendix A.

The time of concentration is a function of the composite runoff coefficient of the basin and the approximate velocity of the flow though the basin as outlined in the *2003 San Diego County Hydrology Manual*. The NRCS lag time, T_l, is found by first determining T_p using the following equation related to the calculated time of concentration:

$$T_p = 0.67\ T_c$$

Where:

- T_c is defined as: 1) the time for runoff to travel from the furthermost point in the watershed to one point in question, and 2) the time from the end of excess rainfall to the point of inflection of the unit hydrograph.
- $T_c = T_i + T_t$
  - T_t is the time of concentration of street flow
  - $T_t = D_t/V$, then divide by 60 to convert to minutes
    - D_t is the length of street flow (feet)
    - V is velocity of street flow (feet per second)
  - T_i is the initial time of concentration of overland flow

- $T_i = 1.8(1.1 - C)SQRT(D)/(s^{\wedge 1/3})$

  [from Figure 3-3 in San Diego County Hydrology Manual]

  - C = Runoff Coefficient
  - D = Length of overland flow (feet)
  - s = Slope of overland flow (%)

The NRCS lag time of a watershed is then determined by the following equation:

$$\text{NRCS } T_l = T_p - D/2$$

A summary of the hydrologic information for each basin that was used for calculating the hydrograph and peak runoff in the HEC-1 analyses is provided in Appendix A.

Historic and Improved (Interim) Drainage Patterns

Historic Drainage Patterns

In the historic condition (pre-2001 improvements), several sump areas west of Highway 101 did not contain underground storm drain systems. Therefore, during runoff-producing storm events the runoff ponded in the sump areas until it eventually infiltrated into the ground, evaporated, or was otherwise removed from the sump area. The flooding impacts of the historic ponding were estimated by modeling 5-year frequency runoff and detention routing in the HEC-1 analyses. The historic condition HEC-1 hydrologic analysis for the 5-year storm event is included in Appendix B. The following is a brief description of the historic flow patterns that were determined based on the available topographic information and field visits. Please refer to the Hydrology Workmap for Coast Highway 101 located in Map Pocket 1 for the watershed basin boundaries.

Basins 1, 1a, 2:

Basins 1 and 2 are located east of Highway 101 approximately between Encinitas Boulevard and Riviera Mobile Home Park. Basin 1a is located east of Sunset Drive and north of Encinitas Boulevard.

Historically, runoff from basins 1, 1a, and 2 ponded along Vulcan Avenue and within the North County Transit District (NCTD) right-of-way (San Diego Northern Railway) between Halcyon Road and Union Street at an elevation of 66.4 feet, remained east of the railroad tracks, and eventually infiltrated into the ground, evaporated, or was otherwise removed from the sump area.

Basins 3, 4:

Basins 3 and 4 are located west of Highway 101 between North Court and Cadmus Street. Historically, runoff from basins 3 and 4 combined and ponded along the alley from Basil Street to Cadmus Street at an elevation of 58.2 feet, until runoff eventually infiltrated into the ground, evaporated, or was otherwise removed from the sump area.

Basin 6:

Basin 6 is located east of Vulcan Avenue, north of (and including) the Riviera Mobile Home Park and south of Leucadia Boulevard. Historically, runoff from basin 6 ponded along the NCTD right-of-way east of the railroad tracks from Leucadia Boulevard to approximately 1,900 feet south of Leucadia Boulevard, at an elevation of 63.7 feet, until draining to the headwall at Connection 1. It is assumed that historically runoff from basin 6 did not overtop the railroad tracks during a 5-year storm event.

Basins 5, 7, 8:

Basins 5, 7, and 8 are located west of Highway 101 between Daphne Street and Diana Street. Historically runoff from basins 5, 7, and 8 combined and ponded along the alley approximately from Europa Street to approximately Diana Street at an elevation of 54.6 feet, and eventually infiltrated into the ground, evaporated, or was otherwise removed from the sump area.

Basins 9a, 9, 9b:

Basin 9a is located west of Highway 101 between Diana Street and Phoebe Street. Basin 9 is located west of Highway 101 between Phoebe Street and Jupiter Street. Basin 9b is located west of Highway 101 between Jupiter Street and Avocado Street.

Historically, runoff from basins 9a and 9b each ponded, overtopped a crest in the alley and combined with basin 9. The combined flows from basins 9a, 9b, and 9 were detained at an existing pump station located at Coast Highway 101 and Phoebe Street (Phoebe pump station). The inundated area extended from Glaucus Street along Highway 101 to approximately Avocado Street. The ponded water surface elevation was 54.0 feet within basin 9a, 56.0 feet within basin 9b, and 53.1 within basin 9. The runoff from basins 9a and 9b drain to basin 9 after it is detained.

The pump station consists of 2 pumps, each with a capacity of 500 gallons per minute (gpm), or 1.1 cubic feet per second (cfs). However the second pump has to overcome the first pump's impact to the hydraulic grade line in the downstream storm drain system.

Therefore, the second pump was assumed to function at 50% capacity. The peak flow rate of the pumps was assumed to be approximately 750 gpm, or 1.7 cfs. The pumps discharge into an existing 10" diameter storm drain parallel to Highway 101, and tie into the main line at Connection 3.

Basins 10, 11:

Basins 10 and 11 are located west of Highway 101 between Avocado Street and Moorgate Road. It is assumed that basins 10 and 11 drained east to the original storm drain system under Coast Highway 101 and that the original system had capacity. Therefore, detention analyses were not prepared for basins 10 and 11. However, plans for the original storm drain system were not available to verify this assumption.

Historic Hydrologic Analysis Results

Detained Peak Discharge Rates and Ponded Water Surface Elevations

In the historic drainage condition, basins 1, 1a, 1b, 2, 3, 4, 5, 7, and 8 were not connected to an underground storm drain system. Therefore, the storm runoff ponded until it eventually infiltrated into the ground, evaporated, or was otherwise removed from the sump areas. Storm runoff from these basins was in essence detained to 0 cfs, resulting in extended periods of flooding.

Please note that although basins 9, 9a, and 9b were connected to the storm drain system, the Phoebe pump station and the restrictions of the downstream system controlled runoff from these basins to the storm drain system.

Table 1. Historic 5-year Peak Discharge Rates, Detained Discharge Rates, and Ponded WSELs

Basin	Historic Peak Discharge (cfs)	Historic Detained Discharge (cfs)	Historic Ponded WSEL (ft)
1	7	0	66.4
1a	1	0	
3	15	0	
3	7	0	58.2
4	5	0	
5	7	0	54.6
6	16	9	63.7
7	5	0	54.6
8	4	0	
9	11	1.7	53.1
9a	7		54.0
9b	9		56.0
10	11	N/A	N/A
11	16	N/A	N/A

Improved (Interim) Drainage Patterns

The existing storm drain system consists of a 24" main line under Coast Highway 101 that begins near Union Street, flows in the northerly direction, and outlets into two detention basins located in series just north of La Costa Avenue. Several laterals tie into the main line, named Lines A, B, C, D, E, F, and G, which connect the sump areas to the storm drain system. Four additional laterals tie into the main line, known as Connections 1, 2, 3, and 4, which were constructed prior to the 2001 storm drain improvements. See the Hydrology Workmap for Coast Highway 101 located in Map Pocket 1 for the approximate location of the storm drain system.

The City of Encinitas enhanced the existing storm drain system (November 2003) to reduce the extent of flooding during small, frequent storm events (up to 5-year) when compared with the historic condition. The interim improvements will result in lower ponded water elevations, reduced flooding in detention areas, and constant drainage at a regulated rate. These enhancements are achieved by the installation of orifice plates in the laterals to the main storm drain line. By controlling the rate of discharge, the efficiency of the storm drain can be maintained for storm events up to 5-year frequency.

Eight orifice plates were installed; seven in storm drain laterals, and one at a historic connection to the storm drain system (pre-2001 storm drain improvements). All orifice plates were placed at either the most downstream inlet or cleanout prior to the confluence with the main line to maximize the effects of storage within the storm drain system. The locations of the orifice plates are provided in Appendix E.

The existing storm drain laterals provide drainage to the sump areas west of Highway 101 and east of the railroad tracks. These areas historically did not contain underground storm drain systems. In the historic condition, runoff ponded in the sump areas until it eventually infiltrated into the ground, evaporated, or was otherwise removed from the sump areas. Runoff will still pond in the sump areas in the improved (interim) condition, however will drain to the storm drain system at a controlled rate. This will result in lower ponded water elevations in these sump areas for the smaller, more frequent, events up to the 5-year storm.

The interim improved ponded water elevations were calculated by modeling detention in the HEC-1 analysis similar to the historic condition HEC-1 analysis. However, in the improved (interim) condition each drainage basin was routed through the storm drain system. The improved (interim) condition HEC-1 hydrologic analysis for the 5-year storm event is included in Appendix C.

The improved (interim) flow patterns during a 5-year storm event of each drainage basin are discussed in the following subsections.

Basins 1, 1a, 1b, 2:

Basins 1 and 2 are located east of Highway 101 approximately between Encinitas Boulevard and Riviera Mobile Home Park. Basin 1a is located east of Sunset Drive and north of Encinitas Boulevard. Basin 1b is located between Ocean View Avenue and Orpheus Avenue, near Union Street.

Storm runoff from basins 1, 1a, and 1b drain to the headwall of the 18-inch storm drain line (Vulcan Avenue line) located along the western side of Vulcan Avenue. The 2001

storm drain improvements included a storm drain located at Union Street and Orpheus Avenue that allows runoff from basin 1b to drain directly to Orpheus Avenue where it combines with runoff from basins 1a and 1, and ultimately drains to the headwall entrance of the main line. The hydrograph calculations for basin 1b were not included in the historic condition hydrologic analyses because runoff from basin 1b historically ponded in a sump area located at Union Street and Orpheus Avenue where it eventually infiltrated into the ground, evaporated, or was otherwise removed from the sump area.

Storm runoff from basin 2 drains to Line A, which extends from the intersection of Cereus Street and Hermes Avenue westerly to Vulcan Avenue. Line A joins the Vulcan Avenue line within the North County Transit District (NCTD) right-of-way (San Diego Northern Railway) approximately due east from the intersection of Basil Street and Highway 101. Line A and the Vulcan Avenue line then join the main line due west at Highway 101.

An orifice plate with a design opening area of 7 square inches (in^2), has been installed at the junction of Line A and the Vulcan Avenue line. The orifice will regulate flow into the main storm drain line to approximately 1 cfs. Runoff from basins 1, 1a, 1b, and 2 will pond along Vulcan Avenue and within the NCTD right-of-way between Halcyon Road and Union Street at an elevation of 66.2 feet, until it drains into the headwall or most downstream Line A inlets.

Basins 3, 4:

Basins 3 and 4 are located west of Highway 101 between North Court and Cadmus Street. Storm runoff from basin 3 drains to Line B, which joins the main line at the intersection of Basil Street and Highway 101. Two orifice plates with a design opening area of 14 in^2 (total) have been installed on Basil Street in Line B. These orifice plates will regulate flows into Line B to approximately 1 cfs.

Storm runoff from basin 4 drains to Line C, which joins the main line at the intersection of Cadmus Street and Highway 101. An orifice plate with a design opening area of 13 in^2

has been installed on Cadmus Street in Line C. This orifice will regulate flows into Line C to approximately 1 cfs.

Runoff from basin 4 will pond in the alley between Basil Street and Cadmus Street at an elevation of 56.1 feet, until it drains to the Line C inlet in the alley. Localized ponding will occur in basin 3 at the Line B inlet at Athena Street.

Basin 6:

Basin 6 is located east of Vulcan Avenue, north of (and including) the Riviera Mobile Home Park and south of Leucadia Boulevard. The improved (interim) drainage pattern of basin 6 is similar to the historic condition. Storm runoff from basin 6 drains to Connection 1, an 18-inch headwall east of the railroad tracks, just south of Leucadia Boulevard. An orifice plate with design opening area of 104 in^2 placed at the headwall will restrict flows to approximately 7.4 cfs. Runoff from basin 6 will pond along the NCTD right-of-way east of the railroad tracks from Leucadia Boulevard to approximately 1,900 feet south of Leucadia Boulevard, at an elevation of 63.9 feet, until draining to the headwall at Connection 1. Although this water surface elevation is 0.2 feet higher than the historic condition, the 5-year inundated area remains in the right-of-way and does not affect private properties. It is assumed that flows from basin 6 do not overtop the railroad tracks during a 5-year storm event.

Basins 5, 7, 8:

Basins 5, 7, and 8 are located west of Highway 101 between Daphne Street and Diana Street. Storm runoff from basin 5 drains to Line D, which joins the main line at the intersection of Europa Street and Highway 101. An orifice plate with a design opening area of 24 in^2 has been installed on Europa Street in Line D, which will regulate discharge to 1 cfs.

Storm runoff from basin 7 drains to Line E and Line F. Line F joins Line E at the intersection of the alley and Leucadia Boulevard (north of Leucadia Park), and Line E joins the main line at the intersection of Leucadia Boulevard and Highway 101 (north of

Leucadia Park). An orifice plate with a design opening area of 20 in^2 has been installed on Leucadia Boulevard in Line E, which will regulate the discharge to 1 cfs.

Storm runoff from basin 8 drains to Line G, which joins the main line at the intersection of Jasper Street and Highway 101. An orifice plate with a design opening area of 16 in^2 has been installed near Jasper Street in Line G, which will regulate discharge to approximately 1 cfs.

Runoff from basins 5 and 7 will combine and create a continuous pond in the alley from Europa Street through the park at Leucadia Boulevard at an elevation of 52.5 feet, until it drains to the Line D inlet on Europa Street and the Line F inlet in the alley. Localized ponding will also occur within basin 7 at the Line F inlet in the alley and within basin 8 at the Line G inlet in the alley.

Basins 9a, 9b, 9:

Basin 9a is located west of Highway 101 between Diana Street and Phoebe Street. Basin 9 is located west of Highway 101 between Phoebe Street and Jupiter Street. Basin 9b is located west of Highway 101 between Jupiter Street and Avocado Street. Improved (interim) drainage patterns of basins 9a, 9b and 9 will not change from the historic condition. The 5-year ponded water surface elevation was 54.0 feet within basin 9a, 56.0 feet within basin 9b, and 53.1 within basin 9. The runoff from basins 9a and 9b drain to basin 9 after it is detained.

Basins 10, 11:

Basins 10 and 11 are located west of Highway 101 between Avocado Street and Moorgate Road. Improved (interim) drainage patterns of basins 10 and 11 will not change from the historic condition.

Interim (Improved) Hydrologic Analysis Results

Detained Peak Discharge Rates

In the improved (interim) condition, flows basins 1, 1a, 1b, 2, 3, 4, 5, 7, and 8 are detained to a constant rate at each inlet of the existing storm drain system to allow for continual drainage. Table 2 shows the detained peak discharge rate for the improved (interim) condition.

Table 2. Improved 5-year Peak Discharge Rates, Detained Discharge Rates, and Ponded WSELs

Basin	Improved (Interim) Peak Discharge (cfs)	Improved (Interim) Detained Discharge (cfs)	Improved (Interim) Ponded WSEL (ft)
1	7	1.0	66.2
1a	1		
1b	6		
2	15		
3	7	1.0	56.1
4	5	1.0	
5	7	1.0	52.5
6	16	7.4	63.9
7	5	1.0	52.5
8	4	1.0	
9	11	1.7	53.1
9a	7		54.0
9b	9		56.0
10	11	N/A	N/A
11	16	N/A	N/A

Comparison of Historic Condition and Improved (Interim) Condition

Detained Peak Discharge Rates

In the historic condition, basins 1, 1a, 2, 3, 4, 5, 7, and 8 were not connected to an underground storm drain system. Therefore, the storm runoff ponded until it eventually infiltrated into the ground, evaporated, or was pumped out. Flows from these basins were in essence detained to 0 cfs, however extended periods of flooding occurred.

In the improved (interim) condition, flows from these basins are detained to a constant rate at each inlet of the existing storm drain system to allow for continual drainage. The detained peak flows calculated in the improved (interim) condition HEC-1 hydrologic

analysis were used for the hydraulic analysis of the improved (interim) storm drain system. Table 3 shows the detained peak discharge rate for each basin.

Table 3. Historic and Improved (Interim) 5-year Detained Discharge Rates

Basin	Historic Detained Discharge (cfs)	Improved (Interim) Detained Discharge (cfs)
1, 1a, 1b, 2	0	1.0
3	0	1.0
4	0	1.0
5	0	1.0
6	9	7.4
7	0	1.0
8	0	1.0
9, 9a, 9b	1.7	1.7

Ponded Water Surface Elevations

Ponded water surface elevations resulting from the detention still occur within the study area, however the water surface elevations (WSEL) decreased or remained the same in the improved (interim) condition from the historic condition for every basin except for basin 6. Added detention in basin 6 was necessary to maximize the efficiency of the downstream storm drain system. It was determined that the increased inundation elevation does not affect private properties in a 5-year storm. Table 4 shows the results of the 5-year HEC-1 analyses for the ponded water surface elevations within each basin for the historic and improved (interim) condition. Please note that although basins 1a and 1b contribute to the drainage area of basins 1 and 2, these basins are located above the ponded water surface elevation, therefore would not be inundated during the 5-year storm. The inundated area is contained within basins 1 and 2.

Table 4. Historic and Improved (Interim) 5-year Ponded Water Surface Elevations (WSEL)

Basin	Historic Ponded WSEL (ft)	Improved (Interim) Ponded WSEL (ft)	Change in WSEL (ft)
1, 1a, 1b, 2	66.4	66.2	-0.2
3, 4	58.2	56.1	-2.1
5,7,8	54.6	52.5	-2.4
6	63.7	63.9	+0.2 *
9	53.1	53.1	0.0
9a	54.0	54.0	0.0
9b	56.0	56.0	0.0

* This increase will not result in the inundation of any private properties, and the inundation limits will be contained between the NCTD tracks and Vulcan Avenue for a 5-year storm.

Finished Floor Field Survey Data

A field survey was conducted in May 2003 that shows the finished floor elevations of several properties that have been subject to flooding. Based on the field survey data, the finished floor elevations vary from property to property, therefore inundation may be localized in some areas. The field survey data is included in Appendix F.

HYDRAULIC ANALYSIS

The Los Angeles County Flood Control District's Water Surface Pressure Gradient (WSPGW) program was used to prepare hydraulic analyses of the storm drain system with the 2003 interim improvements (orifice plates). The program computes uniform and non-uniform steady flow water surface profiles and pressure gradients in open channels or closed conduits with regular or irregular sections. The flow in a system may alternate between supercritical, subcritical, or pressure flow.

The storm drain system begins at Union Street, extends north along Coast Highway 101, and outlets into two detention basins located in series, west of Highway 101 and just north of La Costa Avenue. The storm drain system consists of a 24" main line, as well as several laterals named Lines A, B, C, D, E, F, and G. Four additional laterals that tie into the main line, known as Connections 1, 2, 3, and 4, were constructed prior to the 2001 storm drain improvements. WSPGW analyses were prepared for the main line and Lines A, B, C, D, E/F, and G. The storm drain system has been enhanced (2003 interim improvements) with the installation of several orifice plates at the laterals. These improvements, as well as improved (interim) drainage patterns, are discussed in the Hydrologic Analysis section of this report. The approximate location of the storm drain system is shown on the Hydrology Workmap for Coast Highway 101 located in Map Pocket 1.

The WSPGW stationing and pipe size input is based on the improvement plans entitled, "Leucadia Drainage Project" dated August 9, 2001 prepared by W.A. Pasco Engineering, Inc. Hydrologic input is based on the improved (interim) HEC-1 (FN: PRO5R1.hc1) described in the hydrologic section of this report, as well as subsequent construction change information provided by the City of Encinitas. "As-built" plans for the storm drain system were not available at the authoring of this report.

Due to the steep slope of the pipe between Connection 4 and the system outlet, the flow is supercritical before discharging into the detention basins. Therefore, the hydraulic analysis of the upstream system is independent of the tailwater elevation in the basins, and detailed analyses of

the detention basins were not included in this study. The tailwater elevation used for the WSPGW input of the main line is the 100-year water surface elevation (WSEL) in detention basin 1 that was calculated in the report entitled, "Detention Basin Evaluation Leucadia Drainage Project," dated January 3, 2001 prepared by WEST Consultants, Inc.

The tailwater elevation used for the WSPGW input of the laterals was based on either the hydraulic grade line (HGL) or energy grade line (EGL) in the main line at the junction of each lateral. If the HGL of the main line is below the top of pipe at the junction, the HGL is used as the tailwater elevation for the lateral. If the HGL of the main line is above the top of pipe at the junction, indicating pressure flow, the tailwater elevation for the lateral must be solved based on the EGL of the main line at the junction. The equation used to solve for tailwater elevation is:

$$TW_{lateral} = EGL_{main\ line} - V^2/2g_{lateral}$$

Where:

- $EGL_{main\ line}$ is the energy grade line in the main line at the junction of the lateral (from the WSPGW output)
- $V^2/2g_{lateral}$ is the velocity head in the lateral
  - $V = Q/A$
    - Q is the flow rate in the lateral (cfs)
    - A is the cross-sectional area of the lateral (ft^2)
- g is the acceleration due to gravity (32.2 ft/s^2)

The velocity head component in the $TW_{lateral}$ equation was negligible in most cases (Lines C, D, E/F, and G) therefore the $EGL_{main\ line}$ was used as the tailwater elevation for the lateral. The $HGL_{main\ line}$ was used for the tailwater elevation for Line A and Line B because the flow in the main line was not pressurized.

Orifice Calculations

The openings for the orifice plates were sized using the orifice equation based on the results from both the WSPGW analyses for the main line and individual laterals. The orifice equation is:

$$Q = CA(sqrt(2gH))$$

Where:

- Q is the flow rate in cubic feet per second (cfs),
- C is a constant (assumed 0.6 for this study),
- A is the cross-sectional area of the opening (ft^2),
- g is the acceleration due to gravity (32.2 ft/s^2), and
- H is the differential head (depth).

The H was calculated as the difference between the HGL in the lateral at the most downstream inlet prior to the confluence with the main line and the ponded water surface elevation at the inlet. The orifice equation was rearranged to solve for the area.

The results of the orifice sizing calculations are shown in Table 5. Support material for the orifice calculations is provided in Appendix E. Bio Clean Environmental Services, Inc. installed the orifice plates at all specified locations in October and November 2003.

Table 5. Results of Orifice Sizing Calculations

Basin	Lateral	Q (cfs)	A (in^2)
1, 2	Line A	1.0	7
3	Line B	1.0	14
4	Line C	1.0	13
5	Line D	1.0	24
7	Line E/F	1.0	20
8	Line G	1.0	16
6	Conn. 1	7.4	104

*Line B has two orifice plates with a total opening area of 14 in^2.

Capacity of the Storm Drain System

Without the installation of the orifice plates the capacity of the storm drain system was approximately 1-year. The WSPGW analysis of the main storm drain line verified that the capacity of the storm drain system with the 2003 interim improvements is approximately 5-year. The City of Encinitas is currently investigating alternatives for ultimate storm drain improvements within the Leucadia area to improve drainage patterns and reduce the potential for inundation.

SUMMARY

This study was conducted to address inundation of City streets and private properties during frequent storm events (up to 5-year) along and adjacent to Highway 101, between Encinitas Boulevard and La Costa Avenue, within the City of Encinitas, California. This report presents the results of hydrologic and hydraulic analyses that compare the historic drainage patterns with the improved (interim) condition.

The existing topography within the Leucadia area consists of several sumps west of Highway 101, many of which did not historically contain storm drain systems. In addition, many of the streets within the study area do not have curb and gutter, which contributes to overland flow to Highway 101 and the adjacent sump areas. This historically resulted in ponding within the sumps during any storm events that produced runoff.

A storm drain system was installed in 2001 that connected these sump areas to the main line in Coast Highway 101. Storm events exceeding a 1-year storm overtaxed the system. Interim enhancements to the storm drain system included the installation of eight orifice plates at the laterals to the main storm drain line. These orifice plates will regulate the rate at which runoff enters the storm drain system, which will result in lower ponded water surface elevations compared to the historic condition, and improved drainage. The results of the hydrologic analyses showed a decrease in ponded water surface elevation of over 2-feet in five of the drainage basins, a slight decrease of 0.2-feet in two basins, and an increase of 0.2 feet in one basin, where it was determined that the increase in water surface elevation would not affect private properties.

The hydraulic analysis showed an overall storm drain capacity for approximately the 5-year frequency storm event. Hydraulic analyses were also used to size the orifice openings, which range in area from 7 in^2 to 104 in^2.

While priority has been placed on completing the interim improvements, the City is actively pursuing the design of a long-term solution intended to largely alleviate inundation of City streets and private properties during larger storm events.

APPENDIX A

Hydrologic Support Material

Summary of Hydrologic Information of Each Basin For the Hydrograph Calculations

Basin	Area (acres)	CN	Soil Group	Time of Concentration, T_c (min)	Lag Time, T_l (min)
1	59.1	61	A	29.02	16.94
1a	8.4	60	A	16.16	8.33
1b	22.3	65	A	18.3	9.76
2	39.4	67	A	16.68	8.68
3	10.0	69	A	12.02	5.55
4	10.7	64	A	10.21	4.34
5	15.7	68	A	11.24	5.03
6	38.4	73	A	32.67	19.39
7	15.2	66	A	15.33	7.77
8	7.2	71	A	15.17	7.67
9	22.5	69	A	21.61	11.98
9a	15.4	69	A	14.45	7.18
9b	18.9	68	A	14.79	7.41
10	10.0	71	A	9.18	3.65
11	27.2	71	A	15.61	7.96

Encinitas--Coast Highway
J-14413
9/4/03

Composite Curve Number Calculations - Revised
Existing Condition

Soil Type A

Land Use	C	I	MH	MU	R	SF							
CN_2	89	89	98	77	57	69							
Basin	Area (ft^2)	Area (ft^2)	Area (ft^2)	Area (ft^2)	Area (ft^2)	Area (ft^2)	Area (ft^2)	Composite CN_2	Rounded Composite CN_2	From Table 4-10, Corresponding CN_1	Interpolated $CN_{1.5}$	Final $CN_{1.5}$	Basin
1	898		80522	484260	170359	1838509	2574548	70.6	71	52	61.31	61	1
1a						366593	366593	69.0	69	50	59.50	60	1a
1b	229894			16414		698466	944774	74.0	74	55	64.50	65	1b
2	91027	182119	208222	61796	47819	1125749	1716732	75.7	76	58	66.83	67	2
3	156336	17823	2978	22942		235713	435792	77.6	78	60	68.81	69	3
4	103790			80		360970	464841	73.5	73	54	63.73	64	4
5	232289		20893		2918	429961	686061	76.6	77	59	67.80	68	5
6	272516		498794	82986		820102	1674398	81.3	81	64	72.65	73	6
7	160706			128258	31497	340607	661067	74.8	75	57	65.92	66	7
8	107664		5938	137398		61366	312366	80.0	80	63	71.48	71	8
9	220315		135272	127935	44841	449644	978007	78.0	78	60	69.01	69	9
9a	138942		53454	234132		242152	668680	78.3	78	60	69.14	69	9a
9b	187326		62112	145529	15538	413271	823776	76.9	77	59	67.96	68	9b
10			51861	374182	10511		436554	79.0	79	62	70.51	71	10
11	288301			887653	9256		1185210	79.8	80	63	71.38	71	11

Encinitas Coast Highway 101 (J-14413) - Lag Calculations based on NRCS Methodology as Described in the San Diego County Hydrology Manual

Watershed	Overland Flow (T_i)						Street Flow (T_t)					T_c (min)	T_p (min)	T_r (min)	T_r (hr)
	[1]Length, D (ft)	[2]Slope, s (%)	[3]Parcel size (ft^2)	Parcel size^{-1} (ac^{-1})	[4]Runoff Coefficient, C	[5]T_i (min)	Length, D_t (ft)	Slope, s (%)	[6]Q (cfs)	[7]V (fps)	[8]T_t (min)				
1	312	10.00	20000	2.18	0.34	11.22	* --	* --	* --	* --	17.80	29.02	19.44	16.94	0.282
1a	225	9.00	12500	3.48	0.38	9.35	1350	3	1	3.3	6.82	16.16	10.83	8.33	0.139
1b	312	7.70	13125	3.32	0.38	11.59	925	1.3	1	2.3	6.70	18.30	12.26	9.76	0.163
2	575	10.00	* --	* --	0.48	12.42	1100	3	7	4.3	4.26	16.68	11.18	8.68	0.145
3	425	8.00	5625	7.74	0.48	11.50	100	2	3	3.25	0.51	12.02	8.05	5.55	0.093
4	350	11.00	7500	5.81	0.45	9.84	75	2.7	1	3.4	0.37	10.21	6.84	4.34	0.072
5	75	2.67	4375	9.96	0.51	6.63	1050	3.62	2	3.80	4.61	11.24	7.53	5.03	0.084
6	1250	6.64	125000	0.35	0.27	28.10	850	0.82	12	3.10	4.57	32.67	21.89	19.39	0.323
7	425	8.94	15625	2.79	0.39	12.69	300	0.67	2	1.90	2.63	15.33	10.27	7.77	0.129
8	275	2.91	6250	6.97	0.47	13.17	600	5.67	3	5.00	2.00	15.17	10.17	7.67	0.128
9	750	7.47	11250	3.87	0.4	17.65	475	0.42	6	2.00	3.96	21.61	14.48	11.98	0.200
9a	300	5.00	16250	2.68	0.37	13.31	375	5.87	5	5.50	1.14	14.45	9.68	7.18	0.120
9b	325	4.31	10000	4.36	0.41	13.76	375	8.00	4	6.10	1.02	14.79	9.91	7.41	0.123
10	125	8.00	7500	5.81	0.45	6.54	825	4.61	7	5.20	2.64	9.18	6.15	3.65	0.061
11	500	4.80	2300	18.94	0.6	11.03	950	2.11	12	4.30	3.68	15.61	10.46	7.96	0.133

1 Length of overland flow along longest flowpath based on HEC-1 workmap
2 Slope measurement based on HEC-1 workmap
3 Approximate area of representive parcel in overland flow portion of watershed
4 Runoff coefficient based on Table 3-1 in the San Diego County Hydrology Manual
5 Initial time of concentration of overland flow based on the equation: $T_i = 1.8(1.1 - C)SQRT(D)/(s^{\wedge}1/3)$ from Figure 3-5 in San Diego County Hydrology Manual
6 Based on HEC-1
7 Based on Figure 3-6 in San Diego County Hydrology Manual
8 $T_t = D_t/V$, then divide by 60 to convert to minutes
9 $T_c = T_i + T_t$
10 $T_p = 0.67$ Tc based on Eq. 4-22 in San Diego County Hydrology Manual
11 $T_r = T_p - D/2$, where D is the period of effective rainfall (assumed 5 minutes for this project), based on Eq. 4-20 in San Diego County Hydrology Manual
* See hand calcs.

Table 3-1

RUNOFF COEFFICIENTS FOR URBAN AREAS

Land Use		Runoff Coefficient "C"				
			Soil Type			
NRCS Elements	County Elements	% IMPER.	A	B	C	D
Undisturbed Natural Terrain	Permanent Open Space	0*	0.20	0.25	0.30	0.35
Low	Residential, 1.0 DU/A or less	10	0.27	0.32	0.36	0.41
Low	Residential, 2.0 DU/A or less	20	0.34	0.38	0.42	0.46
Low	Residential, 2.9 DU/A or less	25	0.38	0.41	0.45	0.49
Medium Density Residential	Residential, 4.3 DU/A or less	30	0.41	0.45	0.48	0.52
Medium Density Residential	Residential, 7.3 DU/A or less	40	0.48	0.51	0.54	0.57
Medium Density Residential	Residential, 10.9 DU/A or less	45	0.52	0.54	0.57	0.60
Medium Density Residential	Residential, 14.5 DU/A or less	50	0.55	0.58	0.60	0.63
High Density Residential	Residential, 24.0 DU/A or less	65	0.66	0.67	0.69	0.71
High Density Residential	Residential, 43.0 DU/A or less	80	0.76	0.77	0.78	0.79
Commercial/Industrial	Neighborhood Commercial	80	0.76	0.77	0.78	0.79
Commercial/Industrial	General Commercial	85	0.80	0.80	0.81	0.82
Commercial/Industrial	Office Professional/Commercial	90	0.83	0.84	0.84	0.85
Commercial/Industrial	Limited Industrial	90	0.83	0.84	0.84	0.85
Commercial/Industrial	General Industrial	95	0.95	0.95	0.95	0.95

*The values associated with 0% impervious may be used for direct calculation of the runoff coefficient as described in Section 3.1.2 (representing the pervious runoff coefficient, Cp, for the soil type), or for areas that will remain undisturbed in perpetuity. Justification must be given that the area will remain natural forever (e.g., the area is located in Cleveland National Forest).

DU/A = dwelling units per acre
NRCS = National Resources Conservation Service

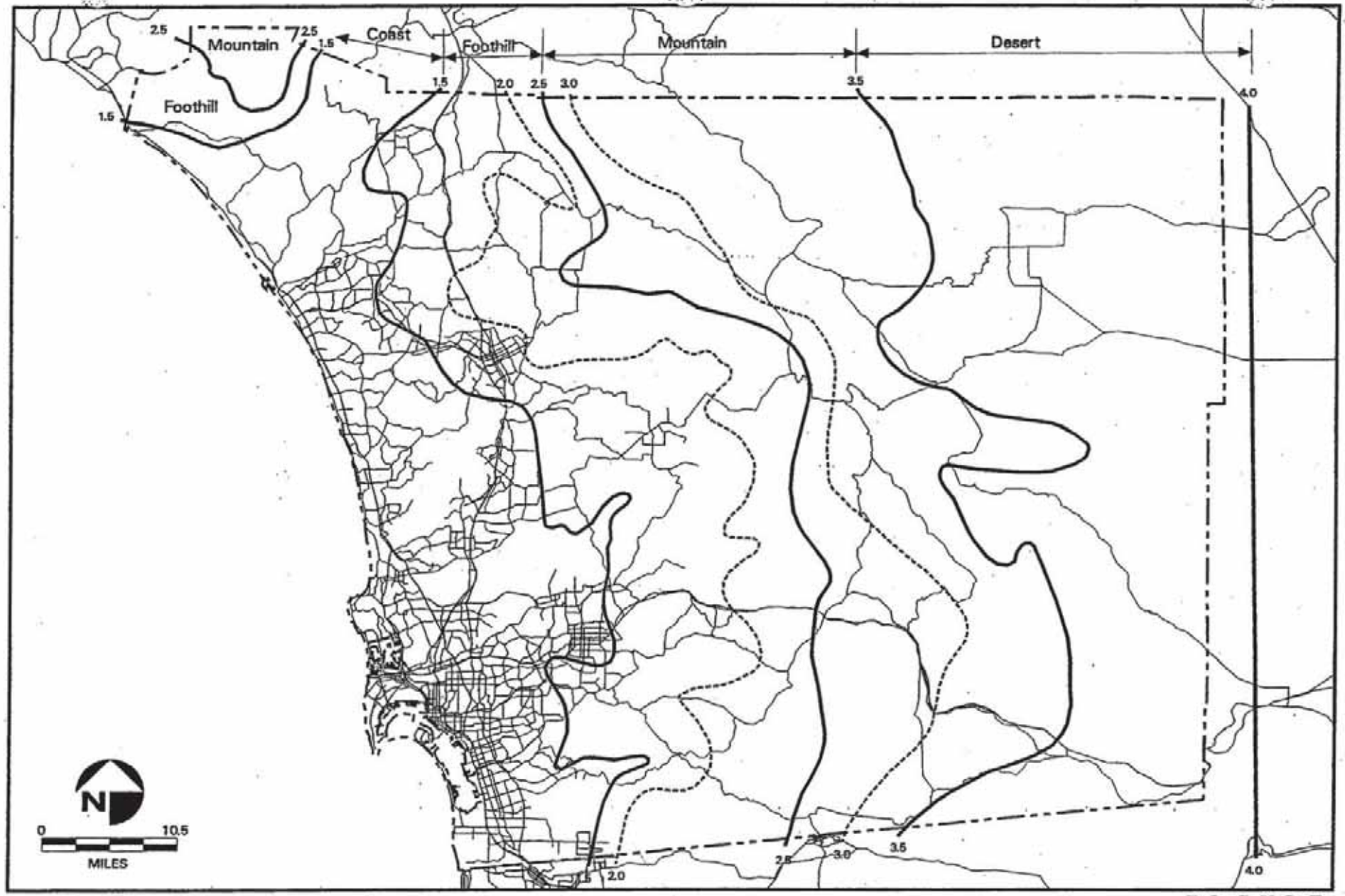
Table 4-2
RUNOFF CURVE NUMBERS[1] FOR PZN CONDITION = 2.0

Cover Description	Cover Treatment or Practice[2]	Hydrologic Condition[3]	Average Percent Impervious Area[4]	Curve Numbers for Hydrologic Soil Groups: A	B	C	D
Developing urban areas and newly graded areas (pervious areas only, no vegetation)				77	86	91	94
Impervious areas: Paved parking lots, roofs, and driveways (excluding right-of-way)				98	98	98	98
Residential districts by average lot size:[4]							
1/8 acre or less (town houses)			65%	77	85	90	92
1/4 acre			38%	61	75	83	87
1/3 acre			30%	57	72	81	86
1/2 acre			25%	54	70	80	85
1 acre			20%	51	68	79	84
2 acres			12%	46	65	77	82
Streets and roads	Paved; curbs and storm drains (excluding right-of-way)			98	98	98	98
	Paved; open ditches (including right-of-way)			83	89	92	93
	Gravel (including right-of-way)			76	85	89	91
	Hard surface (including right-of-way)			74	84	90	92
	Dirt (including right-of-way)			72	82	87	89
Urban districts[4]	Commercial and business		85%	89	92	94	95
	Industrial		72%	81	88	91	93
Western desert urban areas:							
Natural desert landscaping (pervious areas only)[5]				63	77	85	88
Artificial desert landscaping (impervious weed barrier, desert shrub with 1- to 2-inch sand or gravel mulch and basin borders)				96	96	96	96

Table 4-10

RUNOFF CURVE NUMBERS FOR PZN CONDITIONS 1.0, 2.0, AND 3.0

CN For:			CN For:		
PZN Condition = 1.0	PZN Condition = 2.0	PZN Condition = 3.0	PZN Condition = 1.0	PZN Condition = 2.0	PZN Condition = 3.0
100	100	100	40	60	78
97	99	100	39	59	77
94	98	99	38	58	76
91	97	99	37	57	75
89	96	99	37	56	75
87	95	98	34	55	73
85	94	98	34	54	73
83	93	98	33	53	72
81	92	97	32	52	71
80	91	97	31	51	70
78	90	96	31	50	70
76	89	96	30	49	69
75	88	95	29	48	68
73	87	95	28	47	67
72	86	94	27	46	66
70	85	94	26	45	65
68	84	93	25	44	64
67	83	93	25	43	63
66	82	92	24	42	62
64	81	92	23	41	61
63	80	91	22	40	60
62	79	91	21	39	59
60	78	90	21	38	58
59	77	89	20	37	57
58	76	89	19	36	56
57	75	88	18	35	55
55	74	88	18	34	54
54	73	87	17	33	53
53	72	86	16	32	52
52	71	86	16	31	51
51	70	85	15	30	50
50	69	84			
48	68	84	12	25	43
47	67	83	9	20	37
46	66	82	6	15	30
45	65	82	4	10	22
44	64	81	2	5	13
43	63	80	0	0	0
42	62	79			
41	61	78			

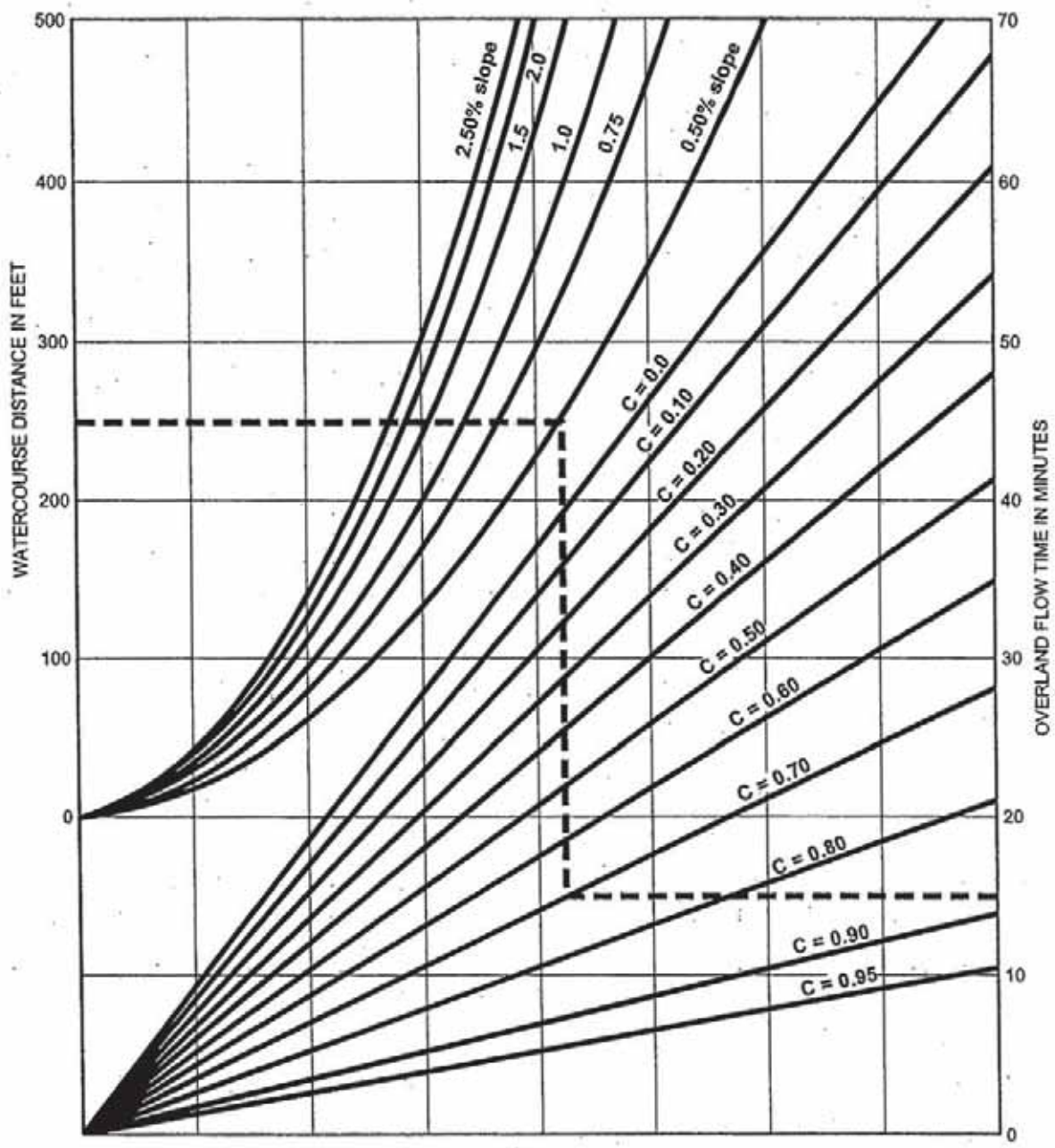


County of San Diego Hydrology Manual

Precipitation Zone Numbers (PZN)

FIGURE

C-1



EXAMPLE:
Given: Watercourse Distance (D) = 250 Feet
Slope (s) = 0.5%
Runoff Coefficient (C) = 0.70
Overland Flow Time (T) = 14.3 Minutes

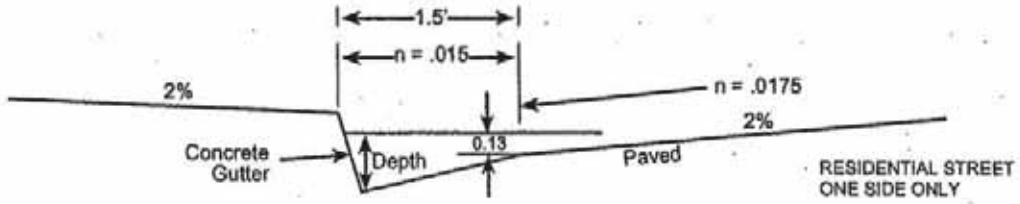
$$T = \frac{1.8\,(1.1-C)\sqrt{D}}{\sqrt[3]{s}}$$

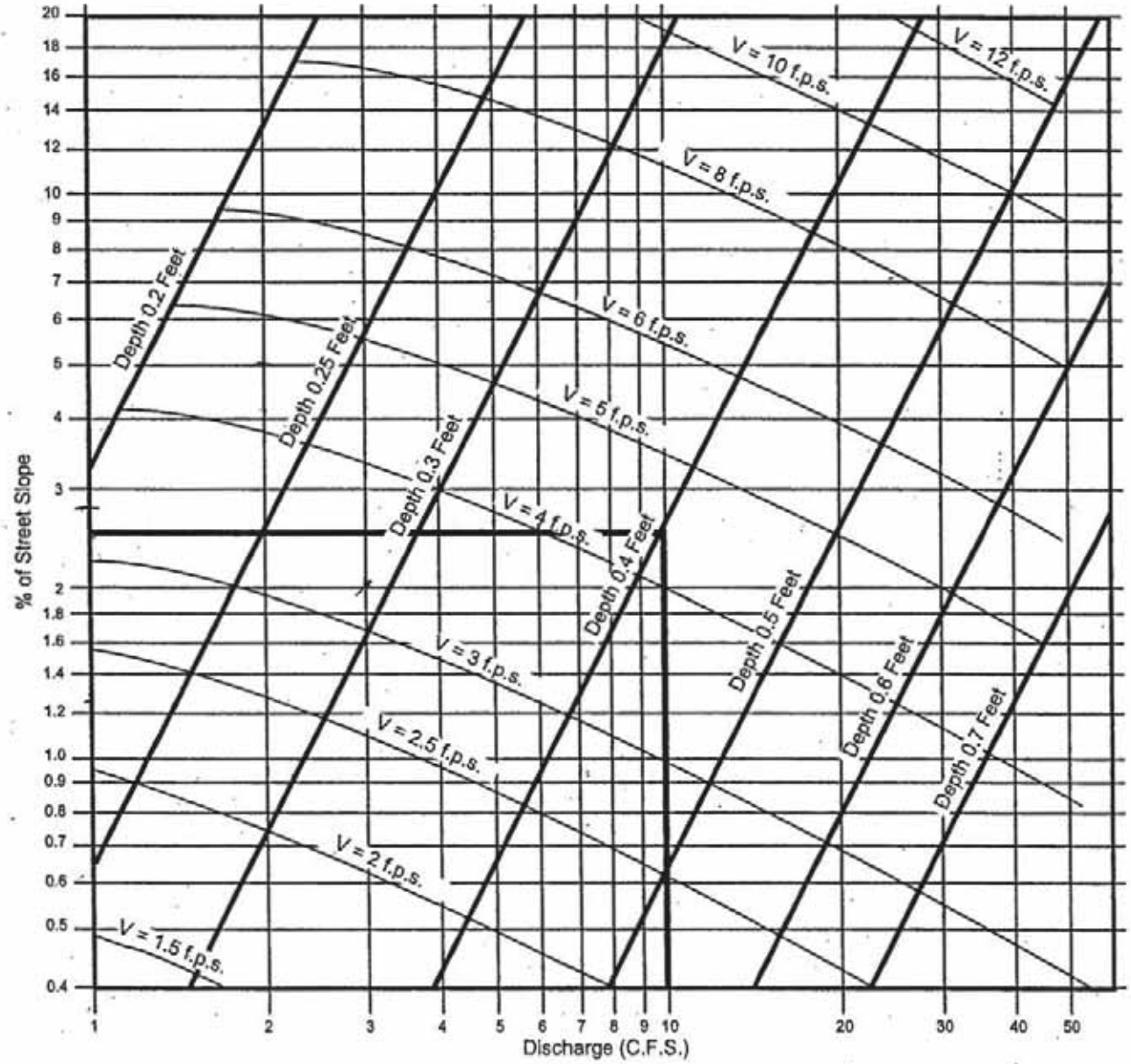
SOURCE: Airport Drainage, Federal Aviation Administration, 1965

FIGURE

Rational Formula - Overland Time of Flow Nomograph

3-5





EXAMPLE:
Given: Q = 10 S = 2.5%
Chart gives: Depth = 0.4, Velocity = 4.4 f.p.s.

SOURCE: San Diego County Department of Special District Services Design Manual

FIGURE

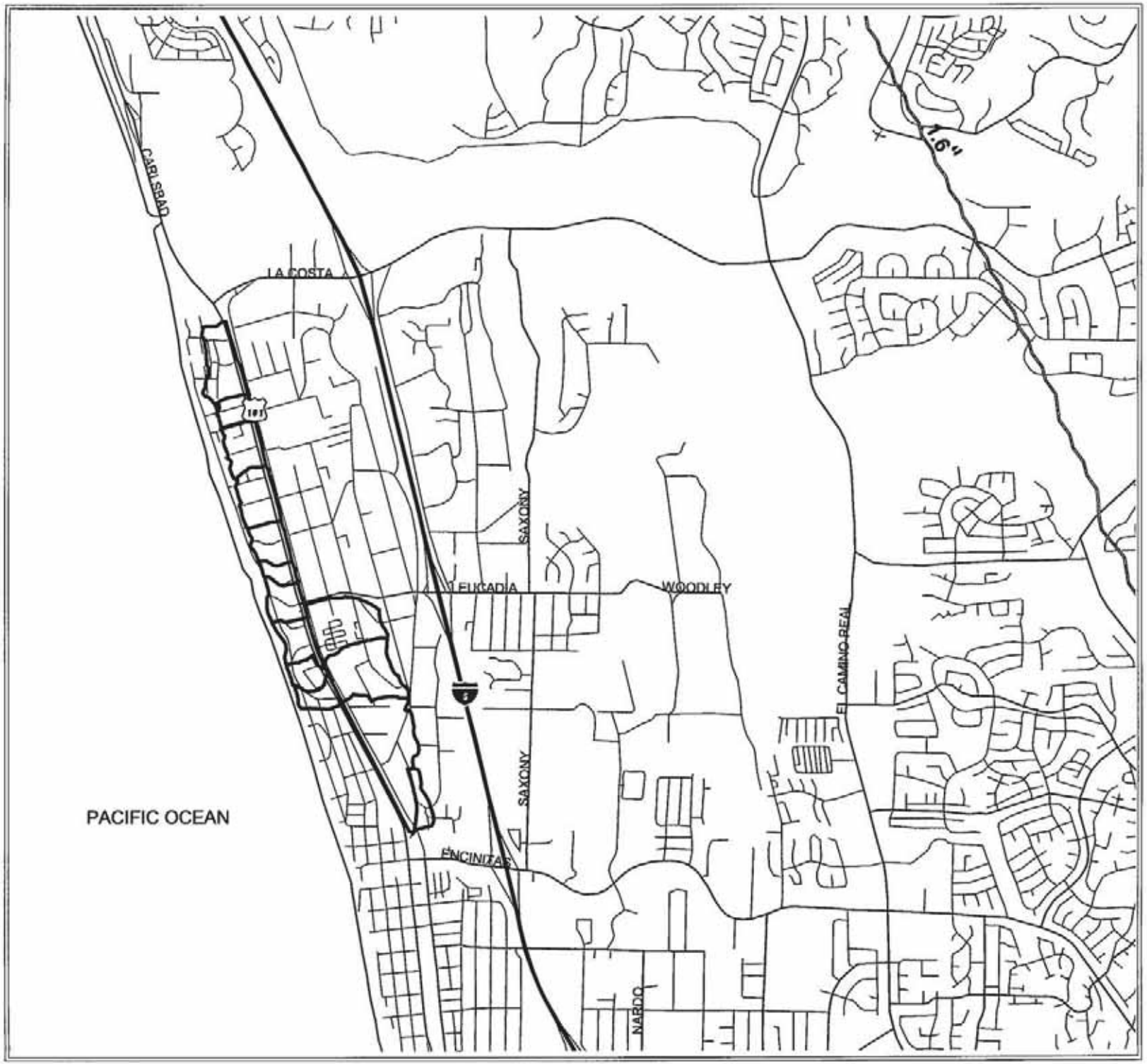
Gutter and Roadway Discharge - Velocity Chart

3-6

County of San Diego
Precipitation Map

Legend:

- 6 Hour, 5 Year Iso Contour
- Basins
- Freeways
- Roads



Encinitas
JN: 14413
May 28, 2003

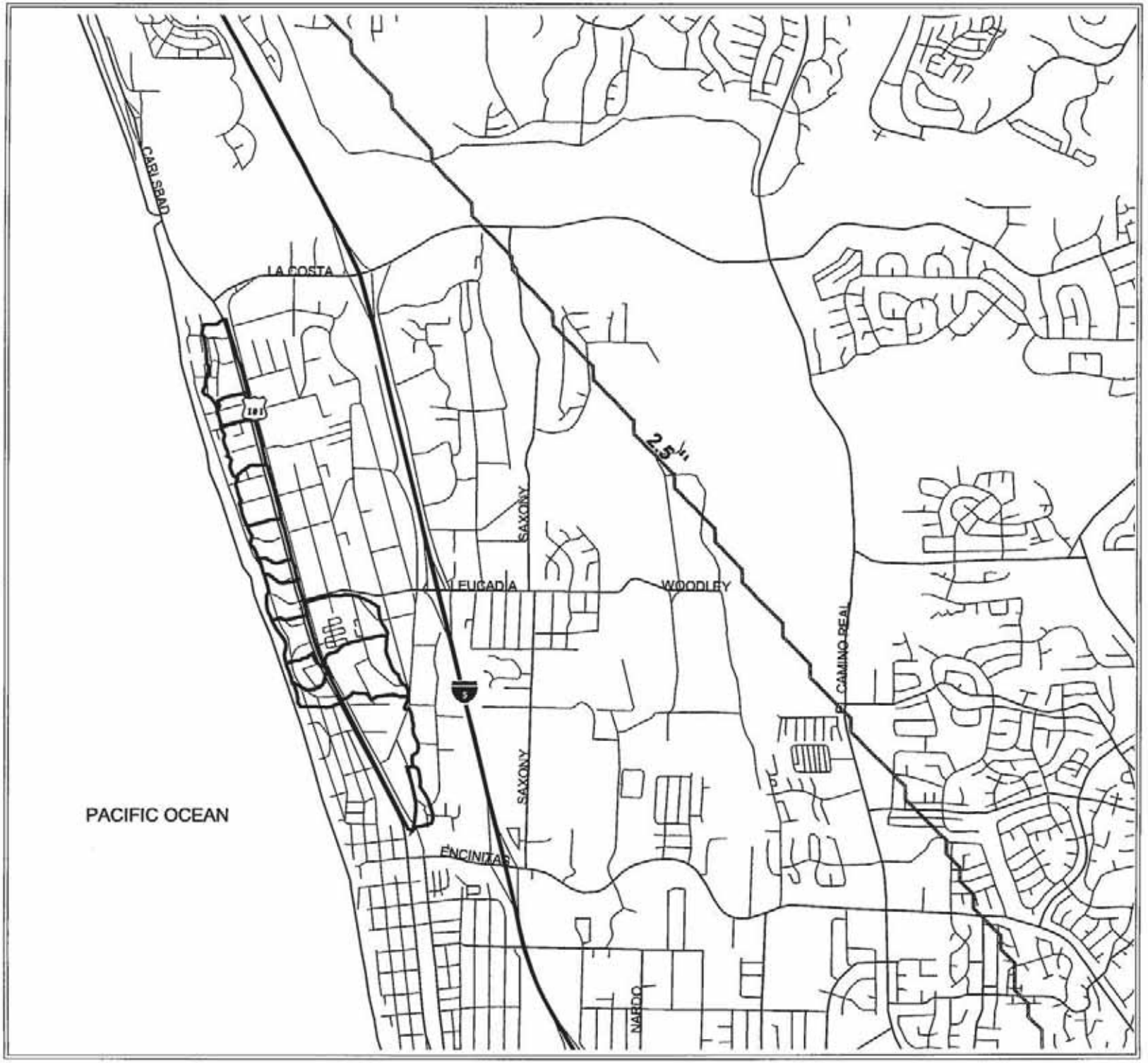
N
W
E
S

0 3000 Feet

County of San Diego
Precipitation Map

Legend:

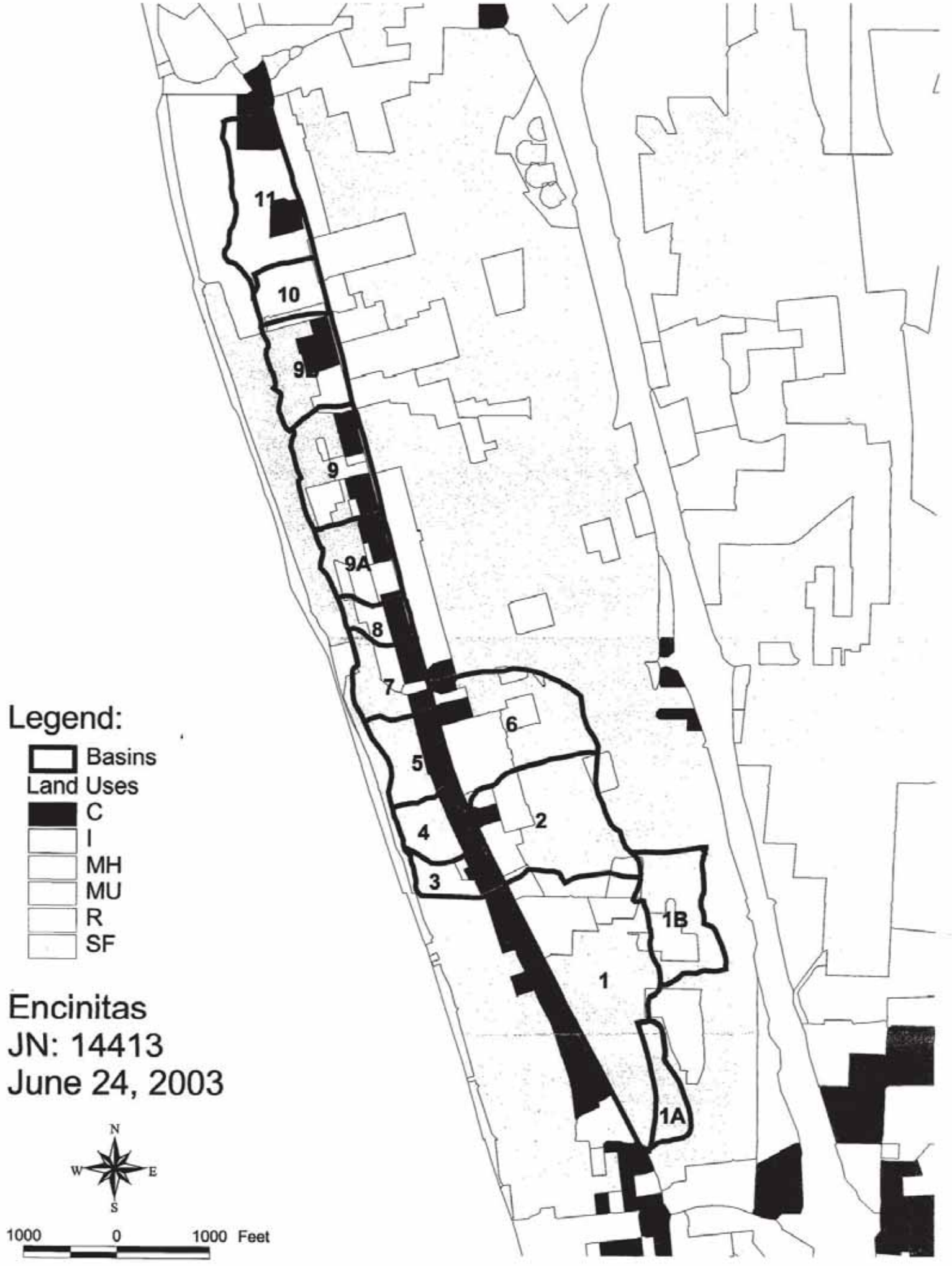
- 24 Hour, 5 Year Iso Contour
- Basins
- Freeways
- Roads



Encinitas
JN: 14413
May 28, 2003

N
W E
S

0 3000 Feet


11
10
9
9
9A
8
7
6
5
4
3
2
1B
1
1A
Legend:
Basins
Land Uses
C
I
MH
MU
R
SF
Encinitas
JN: 14413
June 24, 2003
N
W
E
S
1000
0
1000 Feet

Legend:
Basins
Soil Types
A
B
C
D
Encinitas
JN: 14413
June 24, 2003
N
W
E
S
1000
0
1000 Feet

APPENDIX B

Historic Condition HEC-1 Hydrologic Analysis

5-year Storm Event

```
*****************************************
*                                       *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
*               JUN  1998               *
*            VERSION 4.1                *
*                                       *
*  RUN DATE   18NOV03  TIME  09:02:20   *
*                                       *
*****************************************
```


```
*************************************
*                                   *
*   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

ENCINITAS
14413
11-18-03
5-YR HISTORIC
101PI-5R.hcl

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

          *DIAGRAM
    1     ID   ************************************************************
    2     ID   ENCINITAS- COAST HIGHWAY 101   JOB # 14413  09-12-03
    3     ID   FN: 101PI_5R.HC1
    4     ID   MODIFIED PUMP Q TO 1.7 CFS, AND ROUTING OF BASINS 9A, 9B, AND 9
    5     ID   FROM PUMP STATION THROUGH 10" LATERAL, CONFLUENCING
    6     ID   WITH MAIN LINE AT AT CONNECTION 3 INSTEAD OF CONNECTION 2
    7     ID   ALSO CHANGED ROUTING THROUGH MAIN LINE FROM LINE G TO CONNECTION
    8     ID   2 TO LINE G TO CONNECTION 3
    9     ID   ************************************************************
   10     ID   ENCINITAS- COAST HIGHWAY 101
   11     ID   JOB # 14413
   12     ID   05-27-03
   13     ID   PRE-IMPROVEMENT (HISTORIC) CONDITION       FN: 101PI_5.HC1
   14     ID   5-YEAR, 6-HR STORM EVENT
   15     ID   LAG CALCULATION ARE BASED OFF OF NRCS METHOD
   16     ID   AND ARE A FUNCTION OF RUNOFF COEF. AND VELOCITY
   17     ID   NESTED STORM PER COUNTY OF SAN DIEGO HYDROLOGY MANUAL
   18     ID   COPYRIGHT 2003 RICK ENGINEERING COMPANY
   19     ID   6HR RAINFALL IS  1.6  INCHES
   20     ID   24HR RAINFALL IS  2.5  INCHES
   21     ID   TOTAL BASIN AREA IS  .5  SQUARE MILES
*** FREE ***
   22     IT       5 01JAN90    1200     300
   23     IO       1

   24     KK      1A
   25     KO       0       0       0       0      21
   26     IN       5 01JAN90    1200     300
   27     PI  .00279   .0028  .00281  .00283  .00283  .00285  .00285  .00287  .00287  .00289
   28     PI   .0029  .00291  .00292  .00293  .00294  .00295  .00296  .00298  .00299    .003
   29     PI  .00301  .00303  .00303  .00305  .00306  .00307  .00308   .0031  .00311  .00313
   30     PI  .00314  .00315  .00316  .00318  .00319  .00321  .00322  .00324  .00325   .0032
   31     PI  .00327  .00329   .0033  .00332  .00333  .00336  .00337  .00339   .0034  .00342
   32     PI  .00343  .00345  .00346  .00349   .0035  .00352  .00353  .00356  .00357  .00359
   33     PI  .00361  .00363  .00364  .00367  .00368  .00371  .00372  .00375  .00376   .0037
   34     PI  .00381  .00384  .00385  .00388  .00389  .00392  .00394  .00397  .00399   .0040
   35     PI  .00404  .00407  .00409  .00412  .00414  .00417  .00419  .00423  .00425   .0042
   36     PI   .0043  .00434  .00436   .0044  .00442  .00446  .00449  .00453  .00455   .0046
   37     PI  .00462  .00467  .00469  .00474  .00476  .00481  .00484  .00489  .00492   .0049
   38     PI    .005  .00506  .00508  .00514  .00517  .00524  .00527  .00533  .00537  .00543
   39     PI  .00547  .00554  .00557  .00565  .00569  .00577  .00581  .00589  .00593   .0060
   40     PI  .00606  .00615   .0062   .0063  .00635  .00645   .0065  .00661  .00667  .00678
   41     PI  .00684  .00697  .00703  .00795  .00802  .00817  .00825  .00841  .00849   .0086
   42     PI  .00876  .00895  .00904  .00925  .00935  .00958  .00969  .00994  .01007   .0103
   43     PI  .01048  .01078  .01094  .01128  .01145  .01183  .01203   .0125  .01273  .01323
   44     PI  .01349  .01407  .01439  .01507  .01545  .01628  .01674  .01777  .01835   .0196
   45     PI  .02043   .0222  .02325  .02612  .02766  .03159  .03419  .04135   .0471  .06916
   46     PI  .09744  .34926  .05547  .03744  .02945  .02443  .02127  .01898  .01724   .0158
   47     PI  .01472  .01378  .01297  .01225  .01164   .0111  .01063   .0102  .00982  .00946
   48     PI  .00914  .00885  .00858  .00833   .0081   .0071  .00691  .00673  .00656   .0064
   49     PI  .00625  .00611  .00597  .00585  .00573  .00561   .0055   .0054   .0053   .0052
   50     PI  .00511  .00503  .00494  .00486  .00479  .00471  .00464  .00457  .00451   .0044
   51     PI  .00438  .00432  .00427  .00421  .00416   .0041  .00405    .004  .00396  .00391
   52     PI  .00386  .00382  .00378  .00374   .0037  .00366  .00362  .00358  .00355  .00351
```

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

  53      PI  .00348  .00344  .00341  .00338  .00335  .00331  .00328  .00326  .00323   .0032
  54      PI  .00317  .00314  .00312  .00309  .00307  .00304  .00302  .00299  .00297   .0029
  55      PI  .00292   .0029  .00288  .00286  .00284  .00282   .0028       0       0       0
  56      PI       0       0       0       0       0       0       0       0       0       0
  57      PI       0       0
  58      BA    0.01
  59      LS       0      60
  60      UD   0.139

  61      KK    RT1A
  62      KM   ROUTE RUNOFF FROM BASIN 1A THROUGH BASIN 1 (ALONG HW 101)
  63      RS       3    STOR      -1
  64      RC    0.02    0.02    0.02    3225  0.0060
  65      RX       0       5      10      15      20      25      30      35
  66      RY       2       2     1.5       1       1     1.5       2       2
          * KK 1B
          * BA 0.03
          * LS 0,65
          * UD 0.025
          * KK RT1B
          * KM ROUTE RUNOFF FROM BASIN 1B THROUGH BASIN 1 (ALONG ORPHEUS ST.)
          * RS 1 STOR -1
          * RC 0.02 0.02 0.02 ___ ___
          * RX 0 5 10 15 20 25 30 35
          * RY 2 2 1.5 1 1 1.5 2 2
          * KK RT1B
          * KM ROUTE RUNOFF FROM BASIN 1B THROUGH BASIN 1 (ALONG HW 101)
          * RS 1 STOR -1
          * RC 0.02 0.02 0.02 ___ ___
          * RX 0 5 10 15 20 25 30 35
          * RY 2 2 1.5 1 1 1.5 2 2

  67      KK       1
  68      BA    0.09
  69      LS       0      61
  70      UD   0.282

  71      KK    1_1A
  72      KM   COMBINE BASIN 1A AND BASIN 1
  73      HC       2
          * KK RT1
          * KM ROUTE FROM RUNOFF FROM BASIN 1 AND 1A THROUGH BASIN 2 (ALONG HW 101)
          * RS 1 STOR -1
          * RC 0.02 0.02 0.02 ___ ____
          * RX 0 5 10 15 20 25 30 35
          * RY 2 2 1.5 1 1 1.5 2 2

  74      KK       2
  75      BA    0.06
  76      LS       0      67
  77      UD   0.145
```

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

  78      KK  2_1_1A
  79      KM   COMBINE BASIN 1A AND BASIN 1 WITH BASIN 2
  80      HC       2

  81      KK   DET_2
  82      KM   DETAIN BASINS 1A, 1 AND 2 IN THE SUMP NEAR UNION STREET & 101
  83      RS       1    STOR      -1
  84      SA       0   0.092    3.71    8.29    8.29
  85      SQ       0       0       0       0      20
  86      SE      63      64      66      68    68.1
          * KK RT1
          * KM ROUTE FROM RUNOFF FROM BASIN 1, 1A, AND 2 THROUGH BASIN 6 (ALONG HW 101)
          * RS 1 STOR -1
          * RC 0.02 0.02 0.02 ____ _____
          * RX 0 5 10 15 20 25 30 35
          * RY 2 2 1.5 1 1 1.5 2 2

  87      KK       3
  88      BA    0.02
  89      LS       0      69
  90      UD    .093

  91      KK       4
  92      BA    0.02
  93      LS       0      64
  94      UD   0.072

  95      KK     4_3
  96      KM   COMBINE BASIN 3 WITH BASIN 4
  97      HC       2

  98      KK  DET4_3
  99      KM   DETAIN BASINS 3 AND 4 IN THE SUMP AT CADMUS AND BASIL
 100      RS       1    STOR      -1
 101      SA       0   0.666    2.50    4.59    4.59
 102      SQ       0       0       0       0      20
 103      SE      55      56      58      60    60.1

 104      KK       6
 105      BA    0.06
 106      LS       0      73
 107      UD   0.323

 108      KK   DET_6
 109      KM   DETAIN ON THE EAST SIDE OF TRACKS AT THE SUMP NEAR THE MOBILE HOME PARK
 110      RS       1    STOR      -1
 111      SA       0   0.032   0.551   1.561    3.42
 112      SE    61.5      62      64      66      68
 113      SQ       0    0.78    2.82    5.67    8.26    9.91   60.72  159.88  297.20  470.45
 114      SE    61.5      62    62.5      63    63.5      64    64.1    64.2    64.3    64.4
```

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

  115     KK       5
  116     BA    0.02
  117     LS       0      68
  118     UD   0.084

  119     KK       7
  120     BA    0.02
  121     LS       0      66
  122     UD   0.129

  123     KK       8
  124     BA    0.01
  125     LS       0      71
  126     UD   0.128

  127     KK COMBINE
  128     KM   COMBINE BASINS 5,7,8, AND OUTFLOW FROM EAST SIDE OF TRACKS
  129     HC       4

  130     KK  DETAIN
  131     KM   DETAIN BASINS 5,7,8, AND OUTFLOW FROM EAST SIDE OF TRACKS
  132     RS       1    STOR      -1
  133     SA       0   0.296    2.54    8.28    8.28
  134     SQ       0       0       0       0      20
  135     SE      51      52      54      56    56.1

  136     KK      9A
  137     KM   BASIN 9A ULTIMATELY DRAINING TO PUMP STATION
  138     BA    0.02
  139     LS       0      69
  140     UD    0.12

  141     KK   DET9A
  142     KM   DETAIN BASIN 9A IN THE SUMP
  143     RS       1    STOR      -1
  144     SA       0     1.6     1.6
  145     SQ       0       0      20
  146     SE      53      54    54.1

  147     KK      9B
  148     KM   BASIN 9B ULTIMATELY DRAINING TO PUMP STATION
  149     BA    0.03
  150     LS       0      68
  151     UD   0.123

  152     KK     DET9B
  153     KM   DETAIN BASIN 9B IN THE SUMP
  154     RS       1    STOR      -1
  155     SA       0     1.3     5.7     5.7
  156     SQ       0       0       0      20
  157     SE      53      54      56    56.1
```

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

  158     KK       9
  159     KM   BASIN 9 DRAINING TO PUMP
  160     BA    0.04
  161     LS       0      69
  162     UD   0.200

  163     KK   CON_2
  164     KM   Q DRAINING TO THE PUMP
  165     HC       3

  166     KK    PUMP
  167     KM   DETAIN FOR PUMP STATION / BEGIN 10" PIPE AT "CONNECTION 2"
  168     KM   PUMP CAPACITY IS 1.7 CFS
  169     KM   ASSUME PUMP TURNS ON IMMEDIATELY (EL. 50.1)
  170     RS       1    STOR      -1
  171     SA       0    .001    .064   1.507    2.88    2.88    4.66
  172     SQ       0     1.7     1.7     1.7     1.7     1.7     1.7
  173     SE      50    50.1      52      53      54    54.1      56

  174     KK   RT_23
  175     KO       0       0       0       0      21
  176     KM   ROUTE FROM "CONNECTION 2 TO CONNECTION 3"
  177     KM   THE CHANNEL GEOMETRY IS REPRESENTATIVE OF AN 0.74'X 0.74' BOX, WHICH HAS
  178     KM   THE SAME X-SECTIONAL AREA AS A 10" PIPE ***HAD TO CHANGE XS AREA DUE TO
  179     KM   WARNINGS IN OUTPUT
  180     RS       3    STOR      -1
  181     RC    .013    .013    .013    2425  0.0025
  182     RX       1       2       5       5       6       6       7       8
  183     RY    1.74    1.74    1.74       1       1    1.74    1.74    1.74

  184     KK 10_CON3
  185     KM   BASIN 10 DRAINING TO "CONNECTION 3"
  186     BA    0.02
  187     LS       0      71
  188     UD   0.061

  189     KK  MAIN_3
  190     KM   Q IN MAIN LINE AFTER CONFLUENCE WITH CONNECTION 3
  191     HC       2

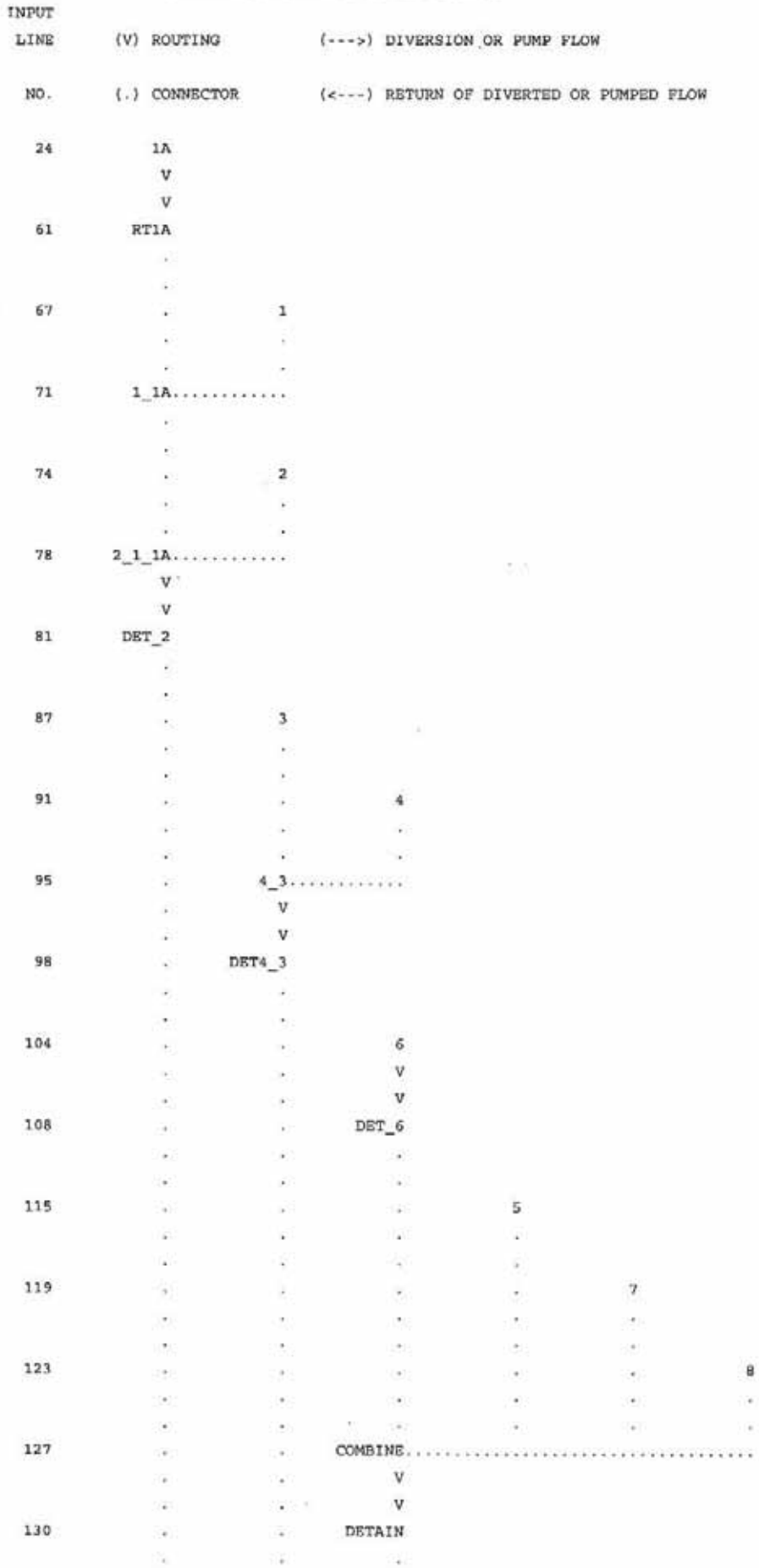
  192     KK   RT_34
  193     KO       0       0       0       0      21
  194     KM   ROUTE FROM CONNECTION 3 TO CONNECTION 4 THROUGH 24" PIPE
  195     KM   THE CHANNEL GEOMETRY IS REPRESENTATIVE OF AN 1.8'X 1.8' BOX, WHICH HAS
  196     KM   THE SAME X-SECTIONAL AREA AS A 24" PIPE
  197     RS       2    STOR      -1
  198     RC    .013    .013    .013    1225  0.0025
  199     RX       1       2       5       5     6.8     6.8       7       8
  200     RY     2.8     2.8     2.8       1       1     2.8     2.8     2.8
```

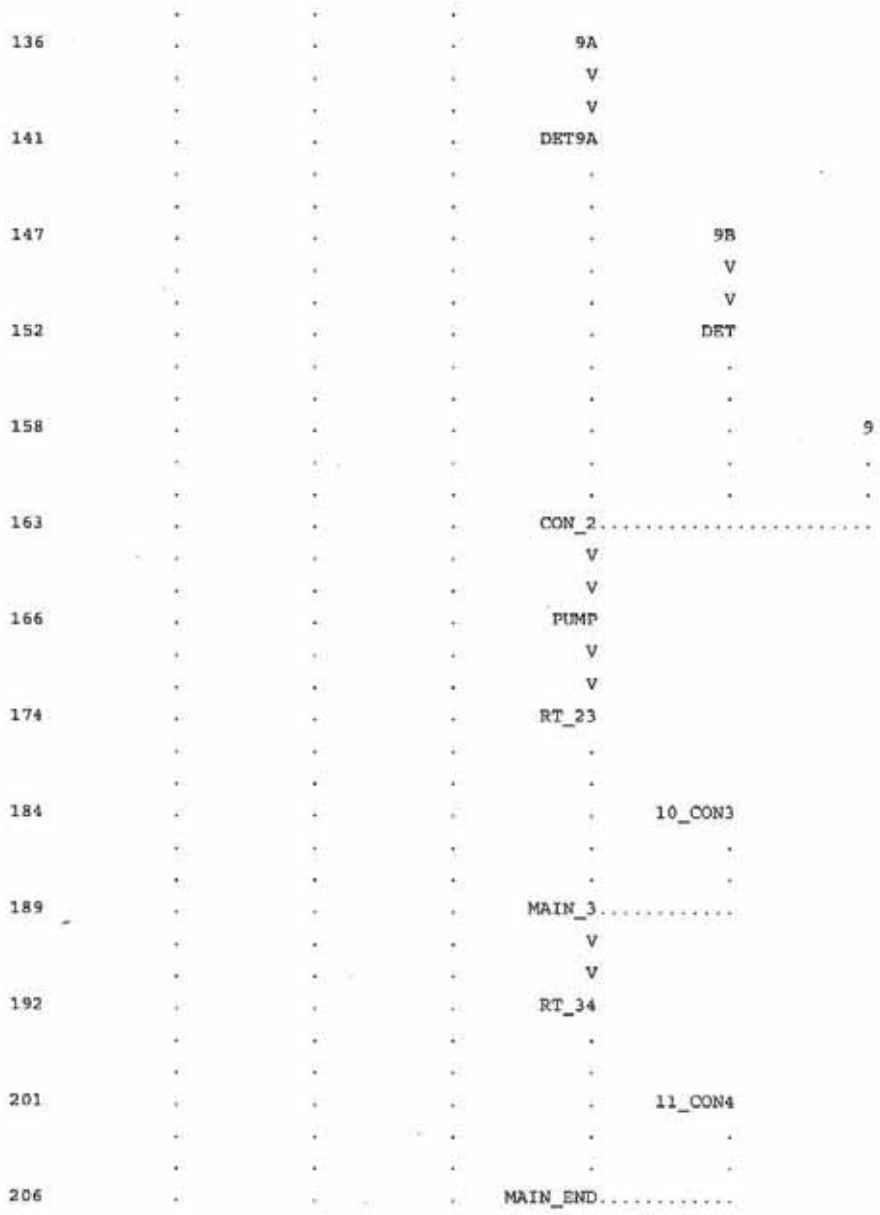
```
LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

  201     KK 11_CON4
  202     KM   BASIN 11 DRAINING TO 24" LINE
  203     BA    0.04
  204     LS       0      71
  205     UD   0.133

  206     KKMAIN_END
  207     KM   Q IN 24" MAIN LINE AFTER CONFLUENCE WITH BASIN 11
  208     HC       2
  209     ZZ
```

SCHEMATIC DIAGRAM OF STREAM NETWORK





(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

```
*****************************************
*                                       *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
*               JUN  1998               *
*            VERSION 4.1                *
*                                       *
*  RUN DATE   18NOV03  TIME  09:02:20   *
*                                       *
*****************************************
```


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


```
*************************************************************
ENCINITAS- COAST HIGHWAY 101   JOB # 14413  09-12-03
FN: 101PI_5R.HC1
MODIFIED PUMP Q TO 1.7 CFS, AND ROUTING OF BASINS 9A, 9B, AND 9
FROM PUMP STATION THROUGH 10" LATERAL, CONFLUENCING
WITH MAIN LINE AT AT CONNECTION 3 INSTEAD OF CONNECTION 2
ALSO CHANGED ROUTING THROUGH MAIN LINE FROM LINE G TO CONNECTION
2 TO LINE G TO CONNECTION 3
*************************************************************
ENCINITAS- COAST HIGHWAY 101
JOB # 14413
05-27-03
PRE-IMPROVEMENT (HISTORIC) CONDITION       FN: 101PI_5.HC1
5-YEAR, 6-HR STORM EVENT
LAG CALCULATION ARE BASED OFF OF NRCS METHOD
AND ARE A FUNCTION OF RUNOFF COEF. AND VELOCITY
NESTED STORM PER COUNTY OF SAN DIEGO HYDROLOGY MANUAL
COPYRIGHT 2003 RICK ENGINEERING COMPANY
6HR RAINFALL IS  1.6  INCHES
24HR RAINFALL IS  2.5  INCHES
TOTAL BASIN AREA IS  .5  SQUARE MILES

23 IO          OUTPUT CONTROL VARIABLES
                    IPRNT          1  PRINT CONTROL
                    IPLOT          0  PLOT CONTROL
                    QSCAL          0.  HYDROGRAPH PLOT SCALE

   IT          HYDROGRAPH TIME DATA
                    NMIN           5  MINUTES IN COMPUTATION INTERVAL
                   IDATE      1JAN90  STARTING DATE
                   ITIME        1200  STARTING TIME
                      NQ         300  NUMBER OF HYDROGRAPH ORDINATES
                  NDDATE      2JAN90  ENDING DATE
                  NDTIME        1255  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

```
*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** **

              **************
              *            *
 24 KK        *     1A     *
              *            *
              **************

 25 KO           OUTPUT CONTROL VARIABLES
                      IPRNT          1  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE
                      IPNCH          0  PUNCH COMPUTED HYDROGRAPH
                       IOUT         21  SAVE HYDROGRAPH ON THIS UNIT
                      ISAV1          1  FIRST ORDINATE PUNCHED OR SAVED
                      ISAV2        300  LAST ORDINATE PUNCHED OR SAVED
                     TIMINT       .083  TIME INTERVAL IN HOURS

 26 IN           TIME DATA FOR INPUT TIME SERIES
                      JXMIN          5  TIME INTERVAL IN MINUTES
                     JXDATE     1JAN90  STARTING DATE
                     JXTIME       1200  STARTING TIME

               SUBBASIN RUNOFF DATA

 58 BA           SUBBASIN CHARACTERISTICS
                      TAREA        .01  SUBBASIN AREA

                 PRECIPITATION DATA

 27 PB                STORM       2.49  BASIN TOTAL PRECIPITATION

 27 PI             INCREMENTAL PRECIPITATION PATTERN
```

.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.02	.02	.02	.02	.02	.02	.02
.02	.02	.02	.03	.03	.03	.03	.04	.05	.07
.10	.35	.06	.04	.03	.02	.02	.02	.02	.02
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01

.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00			

59 LS SCS LOSS RATE

STRTL	1.33	INITIAL ABSTRACTION
CRVNBR	60.00	CURVE NUMBER
RTIMP	.00	PERCENT IMPERVIOUS AREA

60 UD SCS DIMENSIONLESS UNITGRAPH

TLAG	.14	LAG

***

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

UNIT HYDROGRAPH

10 END-OF-PERIOD ORDINATES

11.	27.	21.	10.	5.	2.	1.	0.	0.	0.

****

HYDROGRAPH AT STATION 1A

****

DA MON HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	DA MON HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1 JAN 1200	1	.00	.00	.00	0.	2 JAN 0030	151	.01	.01	.00	0.
1 JAN 1205	2	.00	.00	.00	0.	2 JAN 0035	152	.01	.01	.00	0.
1 JAN 1210	3	.00	.00	.00	0.	2 JAN 0040	153	.01	.01	.00	0.
1 JAN 1215	4	.00	.00	.00	0.	2 JAN 0045	154	.01	.01	.00	0.
1 JAN 1220	5	.00	.00	.00	0.	2 JAN 0050	155	.01	.01	.00	0.
1 JAN 1225	6	.00	.00	.00	0.	2 JAN 0055	156	.01	.01	.00	0.
1 JAN 1230	7	.00	.00	.00	0.	2 JAN 0100	157	.01	.01	.00	0.
1 JAN 1235	8	.00	.00	.00	0.	2 JAN 0105	158	.01	.01	.00	0.
1 JAN 1240	9	.00	.00	.00	0.	2 JAN 0110	159	.01	.01	.00	0.
1 JAN 1245	10	.00	.00	.00	0.	2 JAN 0115	160	.01	.01	.00	0.
1 JAN 1250	11	.00	.00	.00	0.	2 JAN 0120	161	.01	.01	.00	0.
1 JAN 1255	12	.00	.00	.00	0.	2 JAN 0125	162	.01	.01	.00	0.
1 JAN 1300	13	.00	.00	.00	0.	2 JAN 0130	163	.01	.01	.00	0.
1 JAN 1305	14	.00	.00	.00	0.	2 JAN 0135	164	.01	.01	.00	0.
1 JAN 1310	15	.00	.00	.00	0.	2 JAN 0140	165	.01	.01	.00	0.
1 JAN 1315	16	.00	.00	.00	0.	2 JAN 0145	166	.01	.01	.00	0.
1 JAN 1320	17	.00	.00	.00	0.	2 JAN 0150	167	.01	.01	.00	0.
1 JAN 1325	18	.00	.00	.00	0.	2 JAN 0155	168	.01	.01	.00	0.
1 JAN 1330	19	.00	.00	.00	0.	2 JAN 0200	169	.01	.01	.00	0.
1 JAN 1335	20	.00	.00	.00	0.	2 JAN 0205	170	.01	.01	.00	0.
1 JAN 1340	21	.00	.00	.00	0.	2 JAN 0210	171	.01	.01	.00	0.
1 JAN 1345	22	.00	.00	.00	0.	2 JAN 0215	172	.01	.01	.00	0.
1 JAN 1350	23	.00	.00	.00	0.	2 JAN 0220	173	.01	.01	.00	0.
1 JAN 1355	24	.00	.00	.00	0.	2 JAN 0225	174	.01	.01	.00	0.
1 JAN 1400	25	.00	.00	.00	0.	2 JAN 0230	175	.02	.02	.00	0.
1 JAN 1405	26	.00	.00	.00	0.	2 JAN 0235	176	.02	.02	.00	0.
1 JAN 1410	27	.00	.00	.00	0.	2 JAN 0240	177	.02	.02	.00	0.

1 JAN 1415	28	.00	.00	.00	0.	*	2 JAN 0245	178	.02	.02	.00	0.
1 JAN 1420	29	.00	.00	.00	0.	*	2 JAN 0250	179	.02	.02	.00	0.
1 JAN 1425	30	.00	.00	.00	0.	*	2 JAN 0255	180	.02	.02	.00	0.
1 JAN 1430	31	.00	.00	.00	0.	*	2 JAN 0300	181	.02	.02	.00	0.
1 JAN 1435	32	.00	.00	.00	0.	*	2 JAN 0305	182	.02	.02	.00	0.
1 JAN 1440	33	.00	.00	.00	0.	*	2 JAN 0310	183	.02	.02	.00	0.
1 JAN 1445	34	.00	.00	.00	0.	*	2 JAN 0315	184	.02	.02	.00	0.
1 JAN 1450	35	.00	.00	.00	0.	*	2 JAN 0320	185	.03	.03	.00	0.
1 JAN 1455	36	.00	.00	.00	0.	*	2 JAN 0325	186	.03	.03	.00	0.
1 JAN 1500	37	.00	.00	.00	0.	*	2 JAN 0330	187	.03	.03	.00	0.
1 JAN 1505	38	.00	.00	.00	0.	*	2 JAN 0335	188	.03	.03	.00	0.
1 JAN 1510	39	.00	.00	.00	0.	*	2 JAN 0340	189	.04	.04	.00	0.
1 JAN 1515	40	.00	.00	.00	0.	*	2 JAN 0345	190	.05	.05	.00	0.
1 JAN 1520	41	.00	.00	.00	0.	*	2 JAN 0350	191	.07	.07	.00	0.
1 JAN 1525	42	.00	.00	.00	0.	*	2 JAN 0355	192	.10	.10	.00	0.
1 JAN 1530	43	.00	.00	.00	0.	*	2 JAN 0400	193	.35	.32	.03	0.
1 JAN 1535	44	.00	.00	.00	0.	*	2 JAN 0405	194	.06	.05	.01	1.
1 JAN 1540	45	.00	.00	.00	0.	*	2 JAN 0410	195	.04	.03	.01	1.
1 JAN 1545	46	.00	.00	.00	0.	*	2 JAN 0415	196	.03	.02	.00	1.
1 JAN 1550	47	.00	.00	.00	0.	*	2 JAN 0420	197	.02	.02	.00	1.
1 JAN 1555	48	.00	.00	.00	0.	*	2 JAN 0425	198	.02	.02	.00	0.
1 JAN 1600	49	.00	.00	.00	0.	*	2 JAN 0430	199	.02	.02	.00	0.
1 JAN 1605	50	.00	.00	.00	0.	*	2 JAN 0435	200	.02	.01	.00	0.
1 JAN 1610	51	.00	.00	.00	0.	*	2 JAN 0440	201	.02	.01	.00	0.
1 JAN 1615	52	.00	.00	.00	0.	*	2 JAN 0445	202	.01	.01	.00	0.
1 JAN 1620	53	.00	.00	.00	0.	*	2 JAN 0450	203	.01	.01	.00	0.
1 JAN 1625	54	.00	.00	.00	0.	*	2 JAN 0455	204	.01	.01	.00	0.
1 JAN 1630	55	.00	.00	.00	0.	*	2 JAN 0500	205	.01	.01	.00	0.
1 JAN 1635	56	.00	.00	.00	0.	*	2 JAN 0505	206	.01	.01	.00	0.
1 JAN 1640	57	.00	.00	.00	0.	*	2 JAN 0510	207	.01	.01	.00	0.
1 JAN 1645	58	.00	.00	.00	0.	*	2 JAN 0515	208	.01	.01	.00	0.
1 JAN 1650	59	.00	.00	.00	0.	*	2 JAN 0520	209	.01	.01	.00	0.
1 JAN 1655	60	.00	.00	.00	0.	*	2 JAN 0525	210	.01	.01	.00	0.
1 JAN 1700	61	.00	.00	.00	0.	*	2 JAN 0530	211	.01	.01	.00	0.
1 JAN 1705	62	.00	.00	.00	0.	*	2 JAN 0535	212	.01	.01	.00	0.
1 JAN 1710	63	.00	.00	.00	0.	*	2 JAN 0540	213	.01	.01	.00	0.
1 JAN 1715	64	.00	.00	.00	0.	*	2 JAN 0545	214	.01	.01	.00	0.
1 JAN 1720	65	.00	.00	.00	0.	*	2 JAN 0550	215	.01	.01	.00	0.
1 JAN 1725	66	.00	.00	.00	0.	*	2 JAN 0555	216	.01	.01	.00	0.
1 JAN 1730	67	.00	.00	.00	0.	*	2 JAN 0600	217	.01	.01	.00	0.
1 JAN 1735	68	.00	.00	.00	0.	*	2 JAN 0605	218	.01	.01	.00	0.
1 JAN 1740	69	.00	.00	.00	0.	*	2 JAN 0610	219	.01	.01	.00	0.
1 JAN 1745	70	.00	.00	.00	0.	*	2 JAN 0615	220	.01	.01	.00	0.
1 JAN 1750	71	.00	.00	.00	0.	*	2 JAN 0620	221	.01	.00	.00	0.
1 JAN 1755	72	.00	.00	.00	0.	*	2 JAN 0625	222	.01	.00	.00	0.
1 JAN 1800	73	.00	.00	.00	0.	*	2 JAN 0630	223	.01	.00	.00	0.
1 JAN 1805	74	.00	.00	.00	0.	*	2 JAN 0635	224	.01	.00	.00	0.
1 JAN 1810	75	.00	.00	.00	0.	*	2 JAN 0640	225	.01	.00	.00	0.
1 JAN 1815	76	.00	.00	.00	0.	*	2 JAN 0645	226	.01	.00	.00	0.
1 JAN 1820	77	.00	.00	.00	0.	*	2 JAN 0650	227	.01	.00	.00	0.
1 JAN 1825	78	.00	.00	.00	0.	*	2 JAN 0655	228	.01	.00	.00	0.
1 JAN 1830	79	.00	.00	.00	0.	*	2 JAN 0700	229	.01	.00	.00	0.
1 JAN 1835	80	.00	.00	.00	0.	*	2 JAN 0705	230	.01	.00	.00	0.
1 JAN 1840	81	.00	.00	.00	0.	*	2 JAN 0710	231	.01	.00	.00	0.
1 JAN 1845	82	.00	.00	.00	0.	*	2 JAN 0715	232	.01	.00	.00	0.
1 JAN 1850	83	.00	.00	.00	0.	*	2 JAN 0720	233	.01	.00	.00	0.
1 JAN 1855	84	.00	.00	.00	0.	*	2 JAN 0725	234	.00	.00	.00	0.
1 JAN 1900	85	.00	.00	.00	0.	*	2 JAN 0730	235	.00	.00	.00	0.
1 JAN 1905	86	.00	.00	.00	0.	*	2 JAN 0735	236	.00	.00	.00	0.
1 JAN 1910	87	.00	.00	.00	0.	*	2 JAN 0740	237	.00	.00	.00	0.

1 JAN 1915	88	.00	.00	.00	0.	*	2 JAN 0745	238	.00	.00	.00	0.
1 JAN 1920	89	.00	.00	.00	0.	*	2 JAN 0750	239	.00	.00	.00	0.
1 JAN 1925	90	.00	.00	.00	0.	*	2 JAN 0755	240	.00	.00	.00	0.
1 JAN 1930	91	.00	.00	.00	0.	*	2 JAN 0800	241	.00	.00	.00	0.
1 JAN 1935	92	.00	.00	.00	0.	*	2 JAN 0805	242	.00	.00	.00	0.
1 JAN 1940	93	.00	.00	.00	0.	*	2 JAN 0810	243	.00	.00	.00	0.
1 JAN 1945	94	.00	.00	.00	0.	*	2 JAN 0815	244	.00	.00	.00	0.
1 JAN 1950	95	.00	.00	.00	0.	*	2 JAN 0820	245	.00	.00	.00	0.
1 JAN 1955	96	.00	.00	.00	0.	*	2 JAN 0825	246	.00	.00	.00	0.
1 JAN 2000	97	.00	.00	.00	0.	*	2 JAN 0830	247	.00	.00	.00	0.
1 JAN 2005	98	.00	.00	.00	0.	*	2 JAN 0835	248	.00	.00	.00	0.
1 JAN 2010	99	.00	.00	.00	0.	*	2 JAN 0840	249	.00	.00	.00	0.
1 JAN 2015	100	.00	.00	.00	0.	*	2 JAN 0845	250	.00	.00	.00	0.
1 JAN 2020	101	.00	.00	.00	0.	*	2 JAN 0850	251	.00	.00	.00	0.
1 JAN 2025	102	.00	.00	.00	0.	*	2 JAN 0855	252	.00	.00	.00	0.
1 JAN 2030	103	.00	.00	.00	0.	*	2 JAN 0900	253	.00	.00	.00	0.
1 JAN 2035	104	.00	.00	.00	0.	*	2 JAN 0905	254	.00	.00	.00	0.
1 JAN 2040	105	.00	.00	.00	0.	*	2 JAN 0910	255	.00	.00	.00	0.
1 JAN 2045	106	.00	.00	.00	0.	*	2 JAN 0915	256	.00	.00	.00	0.
1 JAN 2050	107	.00	.00	.00	0.	*	2 JAN 0920	257	.00	.00	.00	0.
1 JAN 2055	108	.00	.00	.00	0.	*	2 JAN 0925	258	.00	.00	.00	0.
1 JAN 2100	109	.00	.00	.00	0.	*	2 JAN 0930	259	.00	.00	.00	0.
1 JAN 2105	110	.00	.00	.00	0.	*	2 JAN 0935	260	.00	.00	.00	0.
1 JAN 2110	111	.00	.00	.00	0.	*	2 JAN 0940	261	.00	.00	.00	0.
1 JAN 2115	112	.00	.00	.00	0.	*	2 JAN 0945	262	.00	.00	.00	0.
1 JAN 2120	113	.01	.01	.00	0.	*	2 JAN 0950	263	.00	.00	.00	0.
1 JAN 2125	114	.01	.01	.00	0.	*	2 JAN 0955	264	.00	.00	.00	0.
1 JAN 2130	115	.01	.01	.00	0.	*	2 JAN 1000	265	.00	.00	.00	0.
1 JAN 2135	116	.01	.01	.00	0.	*	2 JAN 1005	266	.00	.00	.00	0.
1 JAN 2140	117	.01	.01	.00	0.	*	2 JAN 1010	267	.00	.00	.00	0.
1 JAN 2145	118	.01	.01	.00	0.	*	2 JAN 1015	268	.00	.00	.00	0.
1 JAN 2150	119	.01	.01	.00	0.	*	2 JAN 1020	269	.00	.00	.00	0.
1 JAN 2155	120	.01	.01	.00	0.	*	2 JAN 1025	270	.00	.00	.00	0.
1 JAN 2200	121	.01	.01	.00	0.	*	2 JAN 1030	271	.00	.00	.00	0.
1 JAN 2205	122	.01	.01	.00	0.	*	2 JAN 1035	272	.00	.00	.00	0.
1 JAN 2210	123	.01	.01	.00	0.	*	2 JAN 1040	273	.00	.00	.00	0.
1 JAN 2215	124	.01	.01	.00	0.	*	2 JAN 1045	274	.00	.00	.00	0.
1 JAN 2220	125	.01	.01	.00	0.	*	2 JAN 1050	275	.00	.00	.00	0.
1 JAN 2225	126	.01	.01	.00	0.	*	2 JAN 1055	276	.00	.00	.00	0.
1 JAN 2230	127	.01	.01	.00	0.	*	2 JAN 1100	277	.00	.00	.00	0.
1 JAN 2235	128	.01	.01	.00	0.	*	2 JAN 1105	278	.00	.00	.00	0.
1 JAN 2240	129	.01	.01	.00	0.	*	2 JAN 1110	279	.00	.00	.00	0.
1 JAN 2245	130	.01	.01	.00	0.	*	2 JAN 1115	280	.00	.00	.00	0.
1 JAN 2250	131	.01	.01	.00	0.	*	2 JAN 1120	281	.00	.00	.00	0.
1 JAN 2255	132	.01	.01	.00	0.	*	2 JAN 1125	282	.00	.00	.00	0.
1 JAN 2300	133	.01	.01	.00	0.	*	2 JAN 1130	283	.00	.00	.00	0.
1 JAN 2305	134	.01	.01	.00	0.	*	2 JAN 1135	284	.00	.00	.00	0.
1 JAN 2310	135	.01	.01	.00	0.	*	2 JAN 1140	285	.00	.00	.00	0.
1 JAN 2315	136	.01	.01	.00	0.	*	2 JAN 1145	286	.00	.00	.00	0.
1 JAN 2320	137	.01	.01	.00	0.	*	2 JAN 1150	287	.00	.00	.00	0.
1 JAN 2325	138	.01	.01	.00	0.	*	2 JAN 1155	288	.00	.00	.00	0.
1 JAN 2330	139	.01	.01	.00	0.	*	2 JAN 1200	289	.00	.00	.00	0.
1 JAN 2335	140	.01	.01	.00	0.	*	2 JAN 1205	290	.00	.00	.00	0.
1 JAN 2340	141	.01	.01	.00	0.	*	2 JAN 1210	291	.00	.00	.00	0.
1 JAN 2345	142	.01	.01	.00	0.	*	2 JAN 1215	292	.00	.00	.00	0.
1 JAN 2350	143	.01	.01	.00	0.	*	2 JAN 1220	293	.00	.00	.00	0.
1 JAN 2355	144	.01	.01	.00	0.	*	2 JAN 1225	294	.00	.00	.00	0.
2 JAN 0000	145	.01	.01	.00	0.	*	2 JAN 1230	295	.00	.00	.00	0.
2 JAN 0005	146	.01	.01	.00	0.	*	2 JAN 1235	296	.00	.00	.00	0.
2 JAN 0010	147	.01	.01	.00	0.	*	2 JAN 1240	297	.00	.00	.00	0.

2 JAN	0015	148	.01	.01	.00	0.	*	2 JAN	1245	298	.00	.00	.00	0.
2 JAN	0020	149	.01	.01	.00	0.	*	2 JAN	1250	299	.00	.00	.00	0.
2 JAN	0025	150	.01	.01	.00	0.	*	2 JAN	1255	300	.00	.00	.00	0.
							*							

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TOTAL RAINFALL = 2.49, TOTAL LOSS = 2.32, TOTAL EXCESS = .17

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
1.	16.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.150	.172	.172	.172
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = .01 SQ MI

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61 KK

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* *
* RT1A *
* *
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ROUTE RUNOFF FROM BASIN 1A THROUGH BASIN 1 (ALONG HW 101)

HYDROGRAPH ROUTING DATA

63 RS STORAGE ROUTING

NSTPS	3	NUMBER OF SUBREACHES
ITYP	STOR	TYPE OF INITIAL CONDITION
RSVRIC	-1.00	INITIAL CONDITION
X	.00	WORKING R AND D COEFFICIENT

64 RC NORMAL DEPTH CHANNEL

ANL	.020	LEFT OVERBANK N-VALUE
ANCH	.020	MAIN CHANNEL N-VALUE
ANR	.020	RIGHT OVERBANK N-VALUE
RLNTH	3225.	REACH LENGTH
SEL	.0068	ENERGY SLOPE
ELMAX	.0	MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

CROSS-SECTION DATA

		--- LEFT OVERBANK ---		+ ------ MAIN CHANNEL -------			+ --- RIGHT OVERBANK ---		
66 RY	ELEVATION	2.00	2.00	1.50	1.00	1.00	1.50	2.00	2.00
65 RX	DISTANCE	.00	5.00	10.00	15.00	20.00	25.00	30.00	35.00

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COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	.02	.05	.08	.11	.15	.19	.24	.29	.34
OUTFLOW	.00	.24	.78	1.61	2.73	4.15	5.89	7.96	10.39	13.19
ELEVATION	1.00	1.05	1.11	1.16	1.21	1.26	1.32	1.37	1.42	1.47
STORAGE	.40	.46	.53	.60	.67	.75	.84	.92	1.02	1.11
OUTFLOW	16.73	21.04	25.83	31.10	36.88	43.18	50.02	57.41	65.38	71.69

ELEVATION	1.53	1.58	1.63	1.68	1.74	1.79	1.84	1.89	1.95	2.00

HYDROGRAPH AT STATION RT1A

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	JAN	1200	1	0.	.0	1.0	1	JAN	2020	101	0.	.0	1.0	2	JAN	0440	201	0.	.0	1.1
1	JAN	1205	2	0.	.0	1.0	1	JAN	2025	102	0.	.0	1.0	2	JAN	0445	202	0.	.0	1.1
1	JAN	1210	3	0.	.0	1.0	1	JAN	2030	103	0.	.0	1.0	2	JAN	0450	203	0.	.0	1.1
1	JAN	1215	4	0.	.0	1.0	1	JAN	2035	104	0.	.0	1.0	2	JAN	0455	204	0.	.0	1.1
1	JAN	1220	5	0.	.0	1.0	1	JAN	2040	105	0.	.0	1.0	2	JAN	0500	205	0.	.0	1.1
1	JAN	1225	6	0.	.0	1.0	1	JAN	2045	106	0.	.0	1.0	2	JAN	0505	206	0.	.0	1.1
1	JAN	1230	7	0.	.0	1.0	1	JAN	2050	107	0.	.0	1.0	2	JAN	0510	207	0.	.0	1.1
1	JAN	1235	8	0.	.0	1.0	1	JAN	2055	108	0.	.0	1.0	2	JAN	0515	208	0.	.0	1.1
1	JAN	1240	9	0.	.0	1.0	1	JAN	2100	109	0.	.0	1.0	2	JAN	0520	209	0.	.0	1.1
1	JAN	1245	10	0.	.0	1.0	1	JAN	2105	110	0.	.0	1.0	2	JAN	0525	210	0.	.0	1.1
1	JAN	1250	11	0.	.0	1.0	1	JAN	2110	111	0.	.0	1.0	2	JAN	0530	211	0.	.0	1.1
1	JAN	1255	12	0.	.0	1.0	1	JAN	2115	112	0.	.0	1.0	2	JAN	0535	212	0.	.0	1.1
1	JAN	1300	13	0.	.0	1.0	1	JAN	2120	113	0.	.0	1.0	2	JAN	0540	213	0.	.0	1.1
1	JAN	1305	14	0.	.0	1.0	1	JAN	2125	114	0.	.0	1.0	2	JAN	0545	214	0.	.0	1.0
1	JAN	1310	15	0.	.0	1.0	1	JAN	2130	115	0.	.0	1.0	2	JAN	0550	215	0.	.0	1.0
1	JAN	1315	16	0.	.0	1.0	1	JAN	2135	116	0.	.0	1.0	2	JAN	0555	216	0.	.0	1.0
1	JAN	1320	17	0.	.0	1.0	1	JAN	2140	117	0.	.0	1.0	2	JAN	0600	217	0.	.0	1.0
1	JAN	1325	18	0.	.0	1.0	1	JAN	2145	118	0.	.0	1.0	2	JAN	0605	218	0.	.0	1.0
1	JAN	1330	19	0.	.0	1.0	1	JAN	2150	119	0.	.0	1.0	2	JAN	0610	219	0.	.0	1.0
1	JAN	1335	20	0.	.0	1.0	1	JAN	2155	120	0.	.0	1.0	2	JAN	0615	220	0.	.0	1.0
1	JAN	1340	21	0.	.0	1.0	1	JAN	2200	121	0.	.0	1.0	2	JAN	0620	221	0.	.0	1.0
1	JAN	1345	22	0.	.0	1.0	1	JAN	2205	122	0.	.0	1.0	2	JAN	0625	222	0.	.0	1.0
1	JAN	1350	23	0.	.0	1.0	1	JAN	2210	123	0.	.0	1.0	2	JAN	0630	223	0.	.0	1.0
1	JAN	1355	24	0.	.0	1.0	1	JAN	2215	124	0.	.0	1.0	2	JAN	0635	224	0.	.0	1.0
1	JAN	1400	25	0.	.0	1.0	1	JAN	2220	125	0.	.0	1.0	2	JAN	0640	225	0.	.0	1.0
1	JAN	1405	26	0.	.0	1.0	1	JAN	2225	126	0.	.0	1.0	2	JAN	0645	226	0.	.0	1.0
1	JAN	1410	27	0.	.0	1.0	1	JAN	2230	127	0.	.0	1.0	2	JAN	0650	227	0.	.0	1.0
1	JAN	1415	28	0.	.0	1.0	1	JAN	2235	128	0.	.0	1.0	2	JAN	0655	228	0.	.0	1.0
1	JAN	1420	29	0.	.0	1.0	1	JAN	2240	129	0.	.0	1.0	2	JAN	0700	229	0.	.0	1.0
1	JAN	1425	30	0.	.0	1.0	1	JAN	2245	130	0.	.0	1.0	2	JAN	0705	230	0.	.0	1.0
1	JAN	1430	31	0.	.0	1.0	1	JAN	2250	131	0.	.0	1.0	2	JAN	0710	231	0.	.0	1.0
1	JAN	1435	32	0.	.0	1.0	1	JAN	2255	132	0.	.0	1.0	2	JAN	0715	232	0.	.0	1.0
1	JAN	1440	33	0.	.0	1.0	1	JAN	2300	133	0.	.0	1.0	2	JAN	0720	233	0.	.0	1.0
1	JAN	1445	34	0.	.0	1.0	1	JAN	2305	134	0.	.0	1.0	2	JAN	0725	234	0.	.0	1.0
1	JAN	1450	35	0.	.0	1.0	1	JAN	2310	135	0.	.0	1.0	2	JAN	0730	235	0.	.0	1.0
1	JAN	1455	36	0.	.0	1.0	1	JAN	2315	136	0.	.0	1.0	2	JAN	0735	236	0.	.0	1.0
1	JAN	1500	37	0.	.0	1.0	1	JAN	2320	137	0.	.0	1.0	2	JAN	0740	237	0.	.0	1.0
1	JAN	1505	38	0.	.0	1.0	1	JAN	2325	138	0.	.0	1.0	2	JAN	0745	238	0.	.0	1.0
1	JAN	1510	39	0.	.0	1.0	1	JAN	2330	139	0.	.0	1.0	2	JAN	0750	239	0.	.0	1.0
1	JAN	1515	40	0.	.0	1.0	1	JAN	2335	140	0.	.0	1.0	2	JAN	0755	240	0.	.0	1.0
1	JAN	1520	41	0.	.0	1.0	1	JAN	2340	141	0.	.0	1.0	2	JAN	0800	241	0.	.0	1.0
1	JAN	1525	42	0.	.0	1.0	1	JAN	2345	142	0.	.0	1.0	2	JAN	0805	242	0.	.0	1.0
1	JAN	1530	43	0.	.0	1.0	1	JAN	2350	143	0.	.0	1.0	2	JAN	0810	243	0.	.0	1.0
1	JAN	1535	44	0.	.0	1.0	1	JAN	2355	144	0.	.0	1.0	2	JAN	0815	244	0.	.0	1.0
1	JAN	1540	45	0.	.0	1.0	2	JAN	0000	145	0.	.0	1.0	2	JAN	0820	245	0.	.0	1.0
1	JAN	1545	46	0.	.0	1.0	2	JAN	0005	146	0.	.0	1.0	2	JAN	0825	246	0.	.0	1.0
1	JAN	1550	47	0.	.0	1.0	2	JAN	0010	147	0.	.0	1.0	2	JAN	0830	247	0.	.0	1.0
1	JAN	1555	48	0.	.0	1.0	2	JAN	0015	148	0.	.0	1.0	2	JAN	0835	248	0.	.0	1.0
1	JAN	1600	49	0.	.0	1.0	2	JAN	0020	149	0.	.0	1.0	2	JAN	0840	249	0.	.0	1.0

1 JAN 1605	50	0.	.0	1.0 *	2 JAN 0025	150	0.	.0	1.0 *	2 JAN 0845	250	0.	.0	1.0
1 JAN 1610	51	0.	.0	1.0 *	2 JAN 0030	151	0.	.0	1.0 *	2 JAN 0850	251	0.	.0	1.0
1 JAN 1615	52	0.	.0	1.0 *	2 JAN 0035	152	0.	.0	1.0 *	2 JAN 0855	252	0.	.0	1.0
1 JAN 1620	53	0.	.0	1.0 *	2 JAN 0040	153	0.	.0	1.0 *	2 JAN 0900	253	0.	.0	1.0
1 JAN 1625	54	0.	.0	1.0 *	2 JAN 0045	154	0.	.0	1.0 *	2 JAN 0905	254	0.	.0	1.0
1 JAN 1630	55	0.	.0	1.0 *	2 JAN 0050	155	0.	.0	1.0 *	2 JAN 0910	255	0.	.0	1.0
1 JAN 1635	56	0.	.0	1.0 *	2 JAN 0055	156	0.	.0	1.0 *	2 JAN 0915	256	0.	.0	1.0
1 JAN 1640	57	0.	.0	1.0 *	2 JAN 0100	157	0.	.0	1.0 *	2 JAN 0920	257	0.	.0	1.0
1 JAN 1645	58	0.	.0	1.0 *	2 JAN 0105	158	0.	.0	1.0 *	2 JAN 0925	258	0.	.0	1.0
1 JAN 1650	59	0.	.0	1.0 *	2 JAN 0110	159	0.	.0	1.0 *	2 JAN 0930	259	0.	.0	1.0
1 JAN 1655	60	0.	.0	1.0 *	2 JAN 0115	160	0.	.0	1.0 *	2 JAN 0935	260	0.	.0	1.0
1 JAN 1700	61	0.	.0	1.0 *	2 JAN 0120	161	0.	.0	1.0 *	2 JAN 0940	261	0.	.0	1.0
1 JAN 1705	62	0.	.0	1.0 *	2 JAN 0125	162	0.	.0	1.0 *	2 JAN 0945	262	0.	.0	1.0
1 JAN 1710	63	0.	.0	1.0 *	2 JAN 0130	163	0.	.0	1.0 *	2 JAN 0950	263	0.	.0	1.0
1 JAN 1715	64	0.	.0	1.0 *	2 JAN 0135	164	0.	.0	1.0 *	2 JAN 0955	264	0.	.0	1.0
1 JAN 1720	65	0.	.0	1.0 *	2 JAN 0140	165	0.	.0	1.0 *	2 JAN 1000	265	0.	.0	1.0
1 JAN 1725	66	0.	.0	1.0 *	2 JAN 0145	166	0.	.0	1.0 *	2 JAN 1005	266	0.	.0	1.0
1 JAN 1730	67	0.	.0	1.0 *	2 JAN 0150	167	0.	.0	1.0 *	2 JAN 1010	267	0.	.0	1.0
1 JAN 1735	68	0.	.0	1.0 *	2 JAN 0155	168	0.	.0	1.0 *	2 JAN 1015	268	0.	.0	1.0
1 JAN 1740	69	0.	.0	1.0 *	2 JAN 0200	169	0.	.0	1.0 *	2 JAN 1020	269	0.	.0	1.0
1 JAN 1745	70	0.	.0	1.0 *	2 JAN 0205	170	0.	.0	1.0 *	2 JAN 1025	270	0.	.0	1.0
1 JAN 1750	71	0.	.0	1.0 *	2 JAN 0210	171	0.	.0	1.0 *	2 JAN 1030	271	0.	.0	1.0
1 JAN 1755	72	0.	.0	1.0 *	2 JAN 0215	172	0.	.0	1.0 *	2 JAN 1035	272	0.	.0	1.0
1 JAN 1800	73	0.	.0	1.0 *	2 JAN 0220	173	0.	.0	1.0 *	2 JAN 1040	273	0.	.0	1.0
1 JAN 1805	74	0.	.0	1.0 *	2 JAN 0225	174	0.	.0	1.0 *	2 JAN 1045	274	0.	.0	1.0
1 JAN 1810	75	0.	.0	1.0 *	2 JAN 0230	175	0.	.0	1.0 *	2 JAN 1050	275	0.	.0	1.0
1 JAN 1815	76	0.	.0	1.0 *	2 JAN 0235	176	0.	.0	1.0 *	2 JAN 1055	276	0.	.0	1.0
1 JAN 1820	77	0.	.0	1.0 *	2 JAN 0240	177	0.	.0	1.0 *	2 JAN 1100	277	0.	.0	1.0
1 JAN 1825	78	0.	.0	1.0 *	2 JAN 0245	178	0.	.0	1.0 *	2 JAN 1105	278	0.	.0	1.0
1 JAN 1830	79	0.	.0	1.0 *	2 JAN 0250	179	0.	.0	1.0 *	2 JAN 1110	279	0.	.0	1.0
1 JAN 1835	80	0.	.0	1.0 *	2 JAN 0255	180	0.	.0	1.0 *	2 JAN 1115	280	0.	.0	1.0
1 JAN 1840	81	0.	.0	1.0 *	2 JAN 0300	181	0.	.0	1.0 *	2 JAN 1120	281	0.	.0	1.0
1 JAN 1845	82	0.	.0	1.0 *	2 JAN 0305	182	0.	.0	1.0 *	2 JAN 1125	282	0.	.0	1.0
1 JAN 1850	83	0.	.0	1.0 *	2 JAN 0310	183	0.	.0	1.0 *	2 JAN 1130	283	0.	.0	1.0
1 JAN 1855	84	0.	.0	1.0 *	2 JAN 0315	184	0.	.0	1.0 *	2 JAN 1135	284	0.	.0	1.0
1 JAN 1900	85	0.	.0	1.0 *	2 JAN 0320	185	0.	.0	1.0 *	2 JAN 1140	285	0.	.0	1.0
1 JAN 1905	86	0.	.0	1.0 *	2 JAN 0325	186	0.	.0	1.0 *	2 JAN 1145	286	0.	.0	1.0
1 JAN 1910	87	0.	.0	1.0 *	2 JAN 0330	187	0.	.0	1.0 *	2 JAN 1150	287	0.	.0	1.0
1 JAN 1915	88	0.	.0	1.0 *	2 JAN 0335	188	0.	.0	1.0 *	2 JAN 1155	288	0.	.0	1.0
1 JAN 1920	89	0.	.0	1.0 *	2 JAN 0340	189	0.	.0	1.0 *	2 JAN 1200	289	0.	.0	1.0
1 JAN 1925	90	0.	.0	1.0 *	2 JAN 0345	190	0.	.0	1.0 *	2 JAN 1205	290	0.	.0	1.0
1 JAN 1930	91	0.	.0	1.0 *	2 JAN 0350	191	0.	.0	1.0 *	2 JAN 1210	291	0.	.0	1.0
1 JAN 1935	92	0.	.0	1.0 *	2 JAN 0355	192	0.	.0	1.0 *	2 JAN 1215	292	0.	.0	1.0
1 JAN 1940	93	0.	.0	1.0 *	2 JAN 0400	193	0.	.0	1.0 *	2 JAN 1220	293	0.	.0	1.0
1 JAN 1945	94	0.	.0	1.0 *	2 JAN 0405	194	0.	.0	1.0 *	2 JAN 1225	294	0.	.0	1.0
1 JAN 1950	95	0.	.0	1.0 *	2 JAN 0410	195	0.	.0	1.0 *	2 JAN 1230	295	0.	.0	1.0
1 JAN 1955	96	0.	.0	1.0 *	2 JAN 0415	196	0.	.0	1.0 *	2 JAN 1235	296	0.	.0	1.0
1 JAN 2000	97	0.	.0	1.0 *	2 JAN 0420	197	0.	.0	1.0 *	2 JAN 1240	297	0.	.0	1.0
1 JAN 2005	98	0.	.0	1.0 *	2 JAN 0425	198	0.	.0	1.0 *	2 JAN 1245	298	0.	.0	1.0
1 JAN 2010	99	0.	.0	1.0 *	2 JAN 0430	199	0.	.0	1.0 *	2 JAN 1250	299	0.	.0	1.0
1 JAN 2015	100	0.	.0	1.0 *	2 JAN 0435	200	0.	.0	1.0 *	2 JAN 1255	300	0.	.0	1.0
				*					*					

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
0.	16.92	(CFS)	0.	0.	0.	0.
		(INCHES)	.141	.168	.168	.168
		(AC-FT)	0.	0.	0.	0.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
0.	16.83	0.	0.	0.	0.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
1.06	16.92	1.03	1.01	1.01	1.01

CUMULATIVE AREA = .01 SQ MI

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          *            *
67 KK     *          1 *
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SUBBASIN RUNOFF DATA

68 BA SUBBASIN CHARACTERISTICS

TAREA .09 SUBBASIN AREA

PRECIPITATION DATA

27 PB STORM 2.49 BASIN TOTAL PRECIPITATION

27 PI INCREMENTAL PRECIPITATION PATTERN

.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.02	.02	.02	.02	.02	.02	.02
.02	.02	.02	.03	.03	.03	.03	.04	.05	.07
.10	.35	.06	.04	.03	.02	.02	.02	.02	.02
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

.00 .00 .00 .00 .00 .00 .00

69 LS SCS LOSS RATE

STRTL	1.28	INITIAL ABSTRACTION
CRVNBR	61.00	CURVE NUMBER
RTIMP	.00	PERCENT IMPERVIOUS AREA

70 UD SCS DIMENSIONLESS UNITGRAPH

TLAG	.28	LAG

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WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

UNIT HYDROGRAPH
19 END-OF-PERIOD ORDINATES

20.	67.	121.	134.	117.	84.	52.	35.	23.	15.
10.	6.	4.	3.	2.	1.	1.	0.	0.	

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HYDROGRAPH AT STATION 1

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DA MON HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	DA MON HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1 JAN 1200	1	.00	.00	.00	0.	2 JAN 0030	151	.01	.01	.00	0.
1 JAN 1205	2	.00	.00	.00	0.	2 JAN 0035	152	.01	.01	.00	0.
1 JAN 1210	3	.00	.00	.00	0.	2 JAN 0040	153	.01	.01	.00	0.
1 JAN 1215	4	.00	.00	.00	0.	2 JAN 0045	154	.01	.01	.00	0.
1 JAN 1220	5	.00	.00	.00	0.	2 JAN 0050	155	.01	.01	.00	0.
1 JAN 1225	6	.00	.00	.00	0.	2 JAN 0055	156	.01	.01	.00	0.
1 JAN 1230	7	.00	.00	.00	0.	2 JAN 0100	157	.01	.01	.00	0.
1 JAN 1235	8	.00	.00	.00	0.	2 JAN 0105	158	.01	.01	.00	0.
1 JAN 1240	9	.00	.00	.00	0.	2 JAN 0110	159	.01	.01	.00	0.
1 JAN 1245	10	.00	.00	.00	0.	2 JAN 0115	160	.01	.01	.00	0.
1 JAN 1250	11	.00	.00	.00	0.	2 JAN 0120	161	.01	.01	.00	0.
1 JAN 1255	12	.00	.00	.00	0.	2 JAN 0125	162	.01	.01	.00	0.
1 JAN 1300	13	.00	.00	.00	0.	2 JAN 0130	163	.01	.01	.00	0.
1 JAN 1305	14	.00	.00	.00	0.	2 JAN 0135	164	.01	.01	.00	0.
1 JAN 1310	15	.00	.00	.00	0.	2 JAN 0140	165	.01	.01	.00	0.
1 JAN 1315	16	.00	.00	.00	0.	2 JAN 0145	166	.01	.01	.00	0.
1 JAN 1320	17	.00	.00	.00	0.	2 JAN 0150	167	.01	.01	.00	0.
1 JAN 1325	18	.00	.00	.00	0.	2 JAN 0155	168	.01	.01	.00	0.
1 JAN 1330	19	.00	.00	.00	0.	2 JAN 0200	169	.01	.01	.00	0.
1 JAN 1335	20	.00	.00	.00	0.	2 JAN 0205	170	.01	.01	.00	0.
1 JAN 1340	21	.00	.00	.00	0.	2 JAN 0210	171	.01	.01	.00	0.
1 JAN 1345	22	.00	.00	.00	0.	2 JAN 0215	172	.01	.01	.00	0.
1 JAN 1350	23	.00	.00	.00	0.	2 JAN 0220	173	.01	.01	.00	0.
1 JAN 1355	24	.00	.00	.00	0.	2 JAN 0225	174	.01	.01	.00	0.
1 JAN 1400	25	.00	.00	.00	0.	2 JAN 0230	175	.02	.02	.00	0.
1 JAN 1405	26	.00	.00	.00	0.	2 JAN 0235	176	.02	.02	.00	0.
1 JAN 1410	27	.00	.00	.00	0.	2 JAN 0240	177	.02	.02	.00	0.
1 JAN 1415	28	.00	.00	.00	0.	2 JAN 0245	178	.02	.02	.00	0.
1 JAN 1420	29	.00	.00	.00	0.	2 JAN 0250	179	.02	.02	.00	0.
1 JAN 1425	30	.00	.00	.00	0.	2 JAN 0255	180	.02	.02	.00	0.
1 JAN 1430	31	.00	.00	.00	0.	2 JAN 0300	181	.02	.02	.00	0.
1 JAN 1435	32	.00	.00	.00	0.	2 JAN 0305	182	.02	.02	.00	0.
1 JAN 1440	33	.00	.00	.00	0.	2 JAN 0310	183	.02	.02	.00	0.

1	JAN	1445	34	.00	.00	.00	0.	*	2	JAN	0315	184	.02	.02	.00	0.
1	JAN	1450	35	.00	.00	.00	0.	*	2	JAN	0320	185	.03	.03	.00	0.
1	JAN	1455	36	.00	.00	.00	0.	*	2	JAN	0325	186	.03	.03	.00	0.
1	JAN	1500	37	.00	.00	.00	0.	*	2	JAN	0330	187	.03	.03	.00	0.
1	JAN	1505	38	.00	.00	.00	0.	*	2	JAN	0335	188	.03	.03	.00	0.
1	JAN	1510	39	.00	.00	.00	0.	*	2	JAN	0340	189	.04	.04	.00	0.
1	JAN	1515	40	.00	.00	.00	0.	*	2	JAN	0345	190	.05	.05	.00	0.
1	JAN	1520	41	.00	.00	.00	0.	*	2	JAN	0350	191	.07	.07	.00	0.
1	JAN	1525	42	.00	.00	.00	0.	*	2	JAN	0355	192	.10	.09	.00	0.
1	JAN	1530	43	.00	.00	.00	0.	*	2	JAN	0400	193	.35	.31	.04	1.
1	JAN	1535	44	.00	.00	.00	0.	*	2	JAN	0405	194	.06	.05	.01	3.
1	JAN	1540	45	.00	.00	.00	0.	*	2	JAN	0410	195	.04	.03	.01	6.
1	JAN	1545	46	.00	.00	.00	0.	*	2	JAN	0415	196	.03	.02	.01	7.
1	JAN	1550	47	.00	.00	.00	0.	*	2	JAN	0420	197	.02	.02	.00	7.
1	JAN	1555	48	.00	.00	.00	0.	*	2	JAN	0425	198	.02	.02	.00	6.
1	JAN	1600	49	.00	.00	.00	0.	*	2	JAN	0430	199	.02	.02	.00	5.
1	JAN	1605	50	.00	.00	.00	0.	*	2	JAN	0435	200	.02	.01	.00	4.
1	JAN	1610	51	.00	.00	.00	0.	*	2	JAN	0440	201	.02	.01	.00	4.
1	JAN	1615	52	.00	.00	.00	0.	*	2	JAN	0445	202	.01	.01	.00	3.
1	JAN	1620	53	.00	.00	.00	0.	*	2	JAN	0450	203	.01	.01	.00	3.
1	JAN	1625	54	.00	.00	.00	0.	*	2	JAN	0455	204	.01	.01	.00	3.
1	JAN	1630	55	.00	.00	.00	0.	*	2	JAN	0500	205	.01	.01	.00	2.
1	JAN	1635	56	.00	.00	.00	0.	*	2	JAN	0505	206	.01	.01	.00	2.
1	JAN	1640	57	.00	.00	.00	0.	*	2	JAN	0510	207	.01	.01	.00	2.
1	JAN	1645	58	.00	.00	.00	0.	*	2	JAN	0515	208	.01	.01	.00	2.
1	JAN	1650	59	.00	.00	.00	0.	*	2	JAN	0520	209	.01	.01	.00	2.
1	JAN	1655	60	.00	.00	.00	0.	*	2	JAN	0525	210	.01	.01	.00	2.
1	JAN	1700	61	.00	.00	.00	0.	*	2	JAN	0530	211	.01	.01	.00	2.
1	JAN	1705	62	.00	.00	.00	0.	*	2	JAN	0535	212	.01	.01	.00	2.
1	JAN	1710	63	.00	.00	.00	0.	*	2	JAN	0540	213	.01	.01	.00	2.
1	JAN	1715	64	.00	.00	.00	0.	*	2	JAN	0545	214	.01	.01	.00	2.
1	JAN	1720	65	.00	.00	.00	0.	*	2	JAN	0550	215	.01	.01	.00	1.
1	JAN	1725	66	.00	.00	.00	0.	*	2	JAN	0555	216	.01	.01	.00	1.
1	JAN	1730	67	.00	.00	.00	0.	*	2	JAN	0600	217	.01	.01	.00	1.
1	JAN	1735	68	.00	.00	.00	0.	*	2	JAN	0605	218	.01	.01	.00	1.
1	JAN	1740	69	.00	.00	.00	0.	*	2	JAN	0610	219	.01	.01	.00	1.
1	JAN	1745	70	.00	.00	.00	0.	*	2	JAN	0615	220	.01	.00	.00	1.
1	JAN	1750	71	.00	.00	.00	0.	*	2	JAN	0620	221	.01	.00	.00	1.
1	JAN	1755	72	.00	.00	.00	0.	*	2	JAN	0625	222	.01	.00	.00	1.
1	JAN	1800	73	.00	.00	.00	0.	*	2	JAN	0630	223	.01	.00	.00	1.
1	JAN	1805	74	.00	.00	.00	0.	*	2	JAN	0635	224	.01	.00	.00	1.
1	JAN	1810	75	.00	.00	.00	0.	*	2	JAN	0640	225	.01	.00	.00	1.
1	JAN	1815	76	.00	.00	.00	0.	*	2	JAN	0645	226	.01	.00	.00	1.
1	JAN	1820	77	.00	.00	.00	0.	*	2	JAN	0650	227	.01	.00	.00	1.
1	JAN	1825	78	.00	.00	.00	0.	*	2	JAN	0655	228	.01	.00	.00	1.
1	JAN	1830	79	.00	.00	.00	0.	*	2	JAN	0700	229	.01	.00	.00	1.
1	JAN	1835	80	.00	.00	.00	0.	*	2	JAN	0705	230	.01	.00	.00	1.
1	JAN	1840	81	.00	.00	.00	0.	*	2	JAN	0710	231	.01	.00	.00	1.
1	JAN	1845	82	.00	.00	.00	0.	*	2	JAN	0715	232	.01	.00	.00	1.
1	JAN	1850	83	.00	.00	.00	0.	*	2	JAN	0720	233	.01	.00	.00	1.
1	JAN	1855	84	.00	.00	.00	0.	*	2	JAN	0725	234	.00	.00	.00	1.
1	JAN	1900	85	.00	.00	.00	0.	*	2	JAN	0730	235	.00	.00	.00	1.
1	JAN	1905	86	.00	.00	.00	0.	*	2	JAN	0735	236	.00	.00	.00	1.
1	JAN	1910	87	.00	.00	.00	0.	*	2	JAN	0740	237	.00	.00	.00	1.
1	JAN	1915	88	.00	.00	.00	0.	*	2	JAN	0745	238	.00	.00	.00	1.
1	JAN	1920	89	.00	.00	.00	0.	*	2	JAN	0750	239	.00	.00	.00	1.
1	JAN	1925	90	.00	.00	.00	0.	*	2	JAN	0755	240	.00	.00	.00	1.
1	JAN	1930	91	.00	.00	.00	0.	*	2	JAN	0800	241	.00	.00	.00	1.
1	JAN	1935	92	.00	.00	.00	0.	*	2	JAN	0805	242	.00	.00	.00	1.
1	JAN	1940	93	.00	.00	.00	0.	*	2	JAN	0810	243	.00	.00	.00	1.

1 JAN 1945	94	.00	.00	.00	0.	*	2 JAN 0815	244	.00	.00	.00	1.
1 JAN 1950	95	.00	.00	.00	0.	*	2 JAN 0820	245	.00	.00	.00	1.
1 JAN 1955	96	.00	.00	.00	0.	*	2 JAN 0825	246	.00	.00	.00	1.
1 JAN 2000	97	.00	.00	.00	0.	*	2 JAN 0830	247	.00	.00	.00	1.
1 JAN 2005	98	.00	.00	.00	0.	*	2 JAN 0835	248	.00	.00	.00	1.
1 JAN 2010	99	.00	.00	.00	0.	*	2 JAN 0840	249	.00	.00	.00	1.
1 JAN 2015	100	.00	.00	.00	0.	*	2 JAN 0845	250	.00	.00	.00	1.
1 JAN 2020	101	.00	.00	.00	0.	*	2 JAN 0850	251	.00	.00	.00	1.
1 JAN 2025	102	.00	.00	.00	0.	*	2 JAN 0855	252	.00	.00	.00	1.
1 JAN 2030	103	.00	.00	.00	0.	*	2 JAN 0900	253	.00	.00	.00	1.
1 JAN 2035	104	.00	.00	.00	0.	*	2 JAN 0905	254	.00	.00	.00	1.
1 JAN 2040	105	.00	.00	.00	0.	*	2 JAN 0910	255	.00	.00	.00	1.
1 JAN 2045	106	.00	.00	.00	0.	*	2 JAN 0915	256	.00	.00	.00	1.
1 JAN 2050	107	.00	.00	.00	0.	*	2 JAN 0920	257	.00	.00	.00	1.
1 JAN 2055	108	.00	.00	.00	0.	*	2 JAN 0925	258	.00	.00	.00	1.
1 JAN 2100	109	.00	.00	.00	0.	*	2 JAN 0930	259	.00	.00	.00	1.
1 JAN 2105	110	.00	.00	.00	0.	*	2 JAN 0935	260	.00	.00	.00	1.
1 JAN 2110	111	.00	.00	.00	0.	*	2 JAN 0940	261	.00	.00	.00	1.
1 JAN 2115	112	.00	.00	.00	0.	*	2 JAN 0945	262	.00	.00	.00	1.
1 JAN 2120	113	.01	.01	.00	0.	*	2 JAN 0950	263	.00	.00	.00	1.
1 JAN 2125	114	.01	.01	.00	0.	*	2 JAN 0955	264	.00	.00	.00	1.
1 JAN 2130	115	.01	.01	.00	0.	*	2 JAN 1000	265	.00	.00	.00	1.
1 JAN 2135	116	.01	.01	.00	0.	*	2 JAN 1005	266	.00	.00	.00	1.
1 JAN 2140	117	.01	.01	.00	0.	*	2 JAN 1010	267	.00	.00	.00	1.
1 JAN 2145	118	.01	.01	.00	0.	*	2 JAN 1015	268	.00	.00	.00	1.
1 JAN 2150	119	.01	.01	.00	0.	*	2 JAN 1020	269	.00	.00	.00	1.
1 JAN 2155	120	.01	.01	.00	0.	*	2 JAN 1025	270	.00	.00	.00	1.
1 JAN 2200	121	.01	.01	.00	0.	*	2 JAN 1030	271	.00	.00	.00	1.
1 JAN 2205	122	.01	.01	.00	0.	*	2 JAN 1035	272	.00	.00	.00	1.
1 JAN 2210	123	.01	.01	.00	0.	*	2 JAN 1040	273	.00	.00	.00	1.
1 JAN 2215	124	.01	.01	.00	0.	*	2 JAN 1045	274	.00	.00	.00	1.
1 JAN 2220	125	.01	.01	.00	0.	*	2 JAN 1050	275	.00	.00	.00	1.
1 JAN 2225	126	.01	.01	.00	0.	*	2 JAN 1055	276	.00	.00	.00	1.
1 JAN 2230	127	.01	.01	.00	0.	*	2 JAN 1100	277	.00	.00	.00	1.
1 JAN 2235	128	.01	.01	.00	0.	*	2 JAN 1105	278	.00	.00	.00	1.
1 JAN 2240	129	.01	.01	.00	0.	*	2 JAN 1110	279	.00	.00	.00	1.
1 JAN 2245	130	.01	.01	.00	0.	*	2 JAN 1115	280	.00	.00	.00	1.
1 JAN 2250	131	.01	.01	.00	0.	*	2 JAN 1120	281	.00	.00	.00	1.
1 JAN 2255	132	.01	.01	.00	0.	*	2 JAN 1125	282	.00	.00	.00	1.
1 JAN 2300	133	.01	.01	.00	0.	*	2 JAN 1130	283	.00	.00	.00	1.
1 JAN 2305	134	.01	.01	.00	0.	*	2 JAN 1135	284	.00	.00	.00	1.
1 JAN 2310	135	.01	.01	.00	0.	*	2 JAN 1140	285	.00	.00	.00	1.
1 JAN 2315	136	.01	.01	.00	0.	*	2 JAN 1145	286	.00	.00	.00	1.
1 JAN 2320	137	.01	.01	.00	0.	*	2 JAN 1150	287	.00	.00	.00	1.
1 JAN 2325	138	.01	.01	.00	0.	*	2 JAN 1155	288	.00	.00	.00	1.
1 JAN 2330	139	.01	.01	.00	0.	*	2 JAN 1200	289	.00	.00	.00	1.
1 JAN 2335	140	.01	.01	.00	0.	*	2 JAN 1205	290	.00	.00	.00	1.
1 JAN 2340	141	.01	.01	.00	0.	*	2 JAN 1210	291	.00	.00	.00	0.
1 JAN 2345	142	.01	.01	.00	0.	*	2 JAN 1215	292	.00	.00	.00	0.
1 JAN 2350	143	.01	.01	.00	0.	*	2 JAN 1220	293	.00	.00	.00	0.
1 JAN 2355	144	.01	.01	.00	0.	*	2 JAN 1225	294	.00	.00	.00	0.
2 JAN 0000	145	.01	.01	.00	0.	*	2 JAN 1230	295	.00	.00	.00	0.
2 JAN 0005	146	.01	.01	.00	0.	*	2 JAN 1235	296	.00	.00	.00	0.
2 JAN 0010	147	.01	.01	.00	0.	*	2 JAN 1240	297	.00	.00	.00	0.
2 JAN 0015	148	.01	.01	.00	0.	*	2 JAN 1245	298	.00	.00	.00	0.
2 JAN 0020	149	.01	.01	.00	0.	*	2 JAN 1250	299	.00	.00	.00	0.
2 JAN 0025	150	.01	.01	.00	0.	*	2 JAN 1255	300	.00	.00	.00	0.
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TOTAL RAINFALL = 2.49, TOTAL LOSS = 2.30, TOTAL EXCESS = .19

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
7.	16.25	(CFS)	2.	0.	0.	0.
		(INCHES)	.168	.194	.194	.194
		(AC-FT)	1.	1.	1.	1.

CUMULATIVE AREA = .09 SQ MI

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          *           *
71 KK     *     1_1A  *
          *           *
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COMBINE BASIN 1A AND BASIN 1

73 HC HYDROGRAPH COMBINATION

ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 1_1A

SUM OF 2 HYDROGRAPHS

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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 JAN 1200	1	0.	1 JAN 1815	76	0.	2 JAN 0030	151	0.	2 JAN 0645	226	1.
1 JAN 1205	2	0.	1 JAN 1820	77	0.	2 JAN 0035	152	0.	2 JAN 0650	227	1.
1 JAN 1210	3	0.	1 JAN 1825	78	0.	2 JAN 0040	153	0.	2 JAN 0655	228	1.
1 JAN 1215	4	0.	1 JAN 1830	79	0.	2 JAN 0045	154	0.	2 JAN 0700	229	1.
1 JAN 1220	5	0.	1 JAN 1835	80	0.	2 JAN 0050	155	0.	2 JAN 0705	230	1.
1 JAN 1225	6	0.	1 JAN 1840	81	0.	2 JAN 0055	156	0.	2 JAN 0710	231	1.
1 JAN 1230	7	0.	1 JAN 1845	82	0.	2 JAN 0100	157	0.	2 JAN 0715	232	1.
1 JAN 1235	8	0.	1 JAN 1850	83	0.	2 JAN 0105	158	0.	2 JAN 0720	233	1.
1 JAN 1240	9	0.	1 JAN 1855	84	0.	2 JAN 0110	159	0.	2 JAN 0725	234	1.
1 JAN 1245	10	0.	1 JAN 1900	85	0.	2 JAN 0115	160	0.	2 JAN 0730	235	1.
1 JAN 1250	11	0.	1 JAN 1905	86	0.	2 JAN 0120	161	0.	2 JAN 0735	236	1.
1 JAN 1255	12	0.	1 JAN 1910	87	0.	2 JAN 0125	162	0.	2 JAN 0740	237	1.
1 JAN 1300	13	0.	1 JAN 1915	88	0.	2 JAN 0130	163	0.	2 JAN 0745	238	1.
1 JAN 1305	14	0.	1 JAN 1920	89	0.	2 JAN 0135	164	0.	2 JAN 0750	239	1.
1 JAN 1310	15	0.	1 JAN 1925	90	0.	2 JAN 0140	165	0.	2 JAN 0755	240	1.
1 JAN 1315	16	0.	1 JAN 1930	91	0.	2 JAN 0145	166	0.	2 JAN 0800	241	1.
1 JAN 1320	17	0.	1 JAN 1935	92	0.	2 JAN 0150	167	0.	2 JAN 0805	242	1.
1 JAN 1325	18	0.	1 JAN 1940	93	0.	2 JAN 0155	168	0.	2 JAN 0810	243	1.
1 JAN 1330	19	0.	1 JAN 1945	94	0.	2 JAN 0200	169	0.	2 JAN 0815	244	1.
1 JAN 1335	20	0.	1 JAN 1950	95	0.	2 JAN 0205	170	0.	2 JAN 0820	245	1.
1 JAN 1340	21	0.	1 JAN 1955	96	0.	2 JAN 0210	171	0.	2 JAN 0825	246	1.
1 JAN 1345	22	0.	1 JAN 2000	97	0.	2 JAN 0215	172	0.	2 JAN 0830	247	1.
1 JAN 1350	23	0.	1 JAN 2005	98	0.	2 JAN 0220	173	0.	2 JAN 0835	248	1.

1 JAN	1355	24	0.	*	1 JAN	2010	99	0.	*	2 JAN	0225	174	0.	*	2 JAN	0840	249	1.
1 JAN	1400	25	0.	*	1 JAN	2015	100	0.	*	2 JAN	0230	175	0.	*	2 JAN	0845	250	1.
1 JAN	1405	26	0.	*	1 JAN	2020	101	0.	*	2 JAN	0235	176	0.	*	2 JAN	0850	251	1.
1 JAN	1410	27	0.	*	1 JAN	2025	102	0.	*	2 JAN	0240	177	0.	*	2 JAN	0855	252	1.
1 JAN	1415	28	0.	*	1 JAN	2030	103	0.	*	2 JAN	0245	178	0.	*	2 JAN	0900	253	1.
1 JAN	1420	29	0.	*	1 JAN	2035	104	0.	*	2 JAN	0250	179	0.	*	2 JAN	0905	254	1.
1 JAN	1425	30	0.	*	1 JAN	2040	105	0.	*	2 JAN	0255	180	0.	*	2 JAN	0910	255	1.
1 JAN	1430	31	0.	*	1 JAN	2045	106	0.	*	2 JAN	0300	181	0.	*	2 JAN	0915	256	1.
1 JAN	1435	32	0.	*	1 JAN	2050	107	0.	*	2 JAN	0305	182	0.	*	2 JAN	0920	257	1.
1 JAN	1440	33	0.	*	1 JAN	2055	108	0.	*	2 JAN	0310	183	0.	*	2 JAN	0925	258	1.
1 JAN	1445	34	0.	*	1 JAN	2100	109	0.	*	2 JAN	0315	184	0.	*	2 JAN	0930	259	1.
1 JAN	1450	35	0.	*	1 JAN	2105	110	0.	*	2 JAN	0320	185	0.	*	2 JAN	0935	260	1.
1 JAN	1455	36	0.	*	1 JAN	2110	111	0.	*	2 JAN	0325	186	0.	*	2 JAN	0940	261	1.
1 JAN	1500	37	0.	*	1 JAN	2115	112	0.	*	2 JAN	0330	187	0.	*	2 JAN	0945	262	1.
1 JAN	1505	38	0.	*	1 JAN	2120	113	0.	*	2 JAN	0335	188	0.	*	2 JAN	0950	263	1.
1 JAN	1510	39	0.	*	1 JAN	2125	114	0.	*	2 JAN	0340	189	0.	*	2 JAN	0955	264	1.
1 JAN	1515	40	0.	*	1 JAN	2130	115	0.	*	2 JAN	0345	190	0.	*	2 JAN	1000	265	1.
1 JAN	1520	41	0.	*	1 JAN	2135	116	0.	*	2 JAN	0350	191	0.	*	2 JAN	1005	266	1.
1 JAN	1525	42	0.	*	1 JAN	2140	117	0.	*	2 JAN	0355	192	0.	*	2 JAN	1010	267	1.
1 JAN	1530	43	0.	*	1 JAN	2145	118	0.	*	2 JAN	0400	193	1.	*	2 JAN	1015	268	1.
1 JAN	1535	44	0.	*	1 JAN	2150	119	0.	*	2 JAN	0405	194	3.	*	2 JAN	1020	269	1.
1 JAN	1540	45	0.	*	1 JAN	2155	120	0.	*	2 JAN	0410	195	6.	*	2 JAN	1025	270	1.
1 JAN	1545	46	0.	*	1 JAN	2200	121	0.	*	2 JAN	0415	196	7.	*	2 JAN	1030	271	1.
1 JAN	1550	47	0.	*	1 JAN	2205	122	0.	*	2 JAN	0420	197	7.	*	2 JAN	1035	272	1.
1 JAN	1555	48	0.	*	1 JAN	2210	123	0.	*	2 JAN	0425	198	6.	*	2 JAN	1040	273	1.
1 JAN	1600	49	0.	*	1 JAN	2215	124	0.	*	2 JAN	0430	199	5.	*	2 JAN	1045	274	1.
1 JAN	1605	50	0.	*	1 JAN	2220	125	0.	*	2 JAN	0435	200	5.	*	2 JAN	1050	275	1.
1 JAN	1610	51	0.	*	1 JAN	2225	126	0.	*	2 JAN	0440	201	4.	*	2 JAN	1055	276	1.
1 JAN	1615	52	0.	*	1 JAN	2230	127	0.	*	2 JAN	0445	202	4.	*	2 JAN	1100	277	1.
1 JAN	1620	53	0.	*	1 JAN	2235	128	0.	*	2 JAN	0450	203	3.	*	2 JAN	1105	278	1.
1 JAN	1625	54	0.	*	1 JAN	2240	129	0.	*	2 JAN	0455	204	3.	*	2 JAN	1110	279	1.
1 JAN	1630	55	0.	*	1 JAN	2245	130	0.	*	2 JAN	0500	205	3.	*	2 JAN	1115	280	1.
1 JAN	1635	56	0.	*	1 JAN	2250	131	0.	*	2 JAN	0505	206	3.	*	2 JAN	1120	281	1.
1 JAN	1640	57	0.	*	1 JAN	2255	132	0.	*	2 JAN	0510	207	2.	*	2 JAN	1125	282	1.
1 JAN	1645	58	0.	*	1 JAN	2300	133	0.	*	2 JAN	0515	208	2.	*	2 JAN	1130	283	1.
1 JAN	1650	59	0.	*	1 JAN	2305	134	0.	*	2 JAN	0520	209	2.	*	2 JAN	1135	284	1.
1 JAN	1655	60	0.	*	1 JAN	2310	135	0.	*	2 JAN	0525	210	2.	*	2 JAN	1140	285	1.
1 JAN	1700	61	0.	*	1 JAN	2315	136	0.	*	2 JAN	0530	211	2.	*	2 JAN	1145	286	1.
1 JAN	1705	62	0.	*	1 JAN	2320	137	0.	*	2 JAN	0535	212	2.	*	2 JAN	1150	287	1.
1 JAN	1710	63	0.	*	1 JAN	2325	138	0.	*	2 JAN	0540	213	2.	*	2 JAN	1155	288	1.
1 JAN	1715	64	0.	*	1 JAN	2330	139	0.	*	2 JAN	0545	214	2.	*	2 JAN	1200	289	1.
1 JAN	1720	65	0.	*	1 JAN	2335	140	0.	*	2 JAN	0550	215	2.	*	2 JAN	1205	290	1.
1 JAN	1725	66	0.	*	1 JAN	2340	141	0.	*	2 JAN	0555	216	2.	*	2 JAN	1210	291	0.
1 JAN	1730	67	0.	*	1 JAN	2345	142	0.	*	2 JAN	0600	217	2.	*	2 JAN	1215	292	0.
1 JAN	1735	68	0.	*	1 JAN	2350	143	0.	*	2 JAN	0605	218	2.	*	2 JAN	1220	293	0.
1 JAN	1740	69	0.	*	1 JAN	2355	144	0.	*	2 JAN	0610	219	2.	*	2 JAN	1225	294	0.
1 JAN	1745	70	0.	*	2 JAN	0000	145	0.	*	2 JAN	0615	220	1.	*	2 JAN	1230	295	0.
1 JAN	1750	71	0.	*	2 JAN	0005	146	0.	*	2 JAN	0620	221	1.	*	2 JAN	1235	296	0.
1 JAN	1755	72	0.	*	2 JAN	0010	147	0.	*	2 JAN	0625	222	1.	*	2 JAN	1240	297	0.
1 JAN	1800	73	0.	*	2 JAN	0015	148	0.	*	2 JAN	0630	223	1.	*	2 JAN	1245	298	0.
1 JAN	1805	74	0.	*	2 JAN	0020	149	0.	*	2 JAN	0635	224	1.	*	2 JAN	1250	299	0.
1 JAN	1810	75	0.	*	2 JAN	0025	150	0.	*	2 JAN	0640	225	1.	*	2 JAN	1255	300	0.
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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
7.	16.33	(CFS)	2.	1.	0.	0.
		(INCHES)	.165	.192	.192	.192
		(AC-FT)	1.	1.	1.	1.

CUMULATIVE AREA = .10 SQ MI

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          *            *
74 KK     *          2 *
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SUBBASIN RUNOFF DATA

75 BA SUBBASIN CHARACTERISTICS

TAREA .06 SUBBASIN AREA

PRECIPITATION DATA

27 PB STORM 2.49 BASIN TOTAL PRECIPITATION

27 PI INCREMENTAL PRECIPITATION PATTERN

.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.02	.02	.02	.02	.02	.02	.02
.02	.02	.02	.03	.03	.03	.03	.04	.05	.07
.10	.35	.06	.04	.03	.02	.02	.02	.02	.02
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00			

76 LS SCS LOSS RATE

STRTL .99 INITIAL ABSTRACTION

CRVNBR 67.00 CURVE NUMBER

RTIMP .00 PERCENT IMPERVIOUS AREA

77 UD SCS DIMENSIONLESS UNITGRAPH
TLAG .14 LAG

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WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

UNIT HYDROGRAPH
11 END-OF-PERIOD ORDINATES

60. 154. 129. 62. 31. 15. 7. 3. 2. 1.
0.

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HYDROGRAPH AT STATION 2

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	1200	1	.00	.00	.00	0.	2	JAN	0030	151	.01	.01	.00	0.
1	JAN	1205	2	.00	.00	.00	0.	2	JAN	0035	152	.01	.01	.00	0.
1	JAN	1210	3	.00	.00	.00	0.	2	JAN	0040	153	.01	.01	.00	0.
1	JAN	1215	4	.00	.00	.00	0.	2	JAN	0045	154	.01	.01	.00	0.
1	JAN	1220	5	.00	.00	.00	0.	2	JAN	0050	155	.01	.01	.00	0.
1	JAN	1225	6	.00	.00	.00	0.	2	JAN	0055	156	.01	.01	.00	0.
1	JAN	1230	7	.00	.00	.00	0.	2	JAN	0100	157	.01	.01	.00	0.
1	JAN	1235	8	.00	.00	.00	0.	2	JAN	0105	158	.01	.01	.00	0.
1	JAN	1240	9	.00	.00	.00	0.	2	JAN	0110	159	.01	.01	.00	0.
1	JAN	1245	10	.00	.00	.00	0.	2	JAN	0115	160	.01	.01	.00	0.
1	JAN	1250	11	.00	.00	.00	0.	2	JAN	0120	161	.01	.01	.00	0.
1	JAN	1255	12	.00	.00	.00	0.	2	JAN	0125	162	.01	.01	.00	0.
1	JAN	1300	13	.00	.00	.00	0.	2	JAN	0130	163	.01	.01	.00	0.
1	JAN	1305	14	.00	.00	.00	0.	2	JAN	0135	164	.01	.01	.00	0.
1	JAN	1310	15	.00	.00	.00	0.	2	JAN	0140	165	.01	.01	.00	0.
1	JAN	1315	16	.00	.00	.00	0.	2	JAN	0145	166	.01	.01	.00	0.
1	JAN	1320	17	.00	.00	.00	0.	2	JAN	0150	167	.01	.01	.00	0.
1	JAN	1325	18	.00	.00	.00	0.	2	JAN	0155	168	.01	.01	.00	0.
1	JAN	1330	19	.00	.00	.00	0.	2	JAN	0200	169	.01	.01	.00	0.
1	JAN	1335	20	.00	.00	.00	0.	2	JAN	0205	170	.01	.01	.00	0.
1	JAN	1340	21	.00	.00	.00	0.	2	JAN	0210	171	.01	.01	.00	0.
1	JAN	1345	22	.00	.00	.00	0.	2	JAN	0215	172	.01	.01	.00	0.
1	JAN	1350	23	.00	.00	.00	0.	2	JAN	0220	173	.01	.01	.00	0.
1	JAN	1355	24	.00	.00	.00	0.	2	JAN	0225	174	.01	.01	.00	0.
1	JAN	1400	25	.00	.00	.00	0.	2	JAN	0230	175	.02	.02	.00	0.
1	JAN	1405	26	.00	.00	.00	0.	2	JAN	0235	176	.02	.02	.00	0.
1	JAN	1410	27	.00	.00	.00	0.	2	JAN	0240	177	.02	.02	.00	0.
1	JAN	1415	28	.00	.00	.00	0.	2	JAN	0245	178	.02	.02	.00	0.
1	JAN	1420	29	.00	.00	.00	0.	2	JAN	0250	179	.02	.02	.00	0.
1	JAN	1425	30	.00	.00	.00	0.	2	JAN	0255	180	.02	.02	.00	0.
1	JAN	1430	31	.00	.00	.00	0.	2	JAN	0300	181	.02	.02	.00	0.
1	JAN	1435	32	.00	.00	.00	0.	2	JAN	0305	182	.02	.02	.00	0.
1	JAN	1440	33	.00	.00	.00	0.	2	JAN	0310	183	.02	.02	.00	0.
1	JAN	1445	34	.00	.00	.00	0.	2	JAN	0315	184	.02	.02	.00	0.
1	JAN	1450	35	.00	.00	.00	0.	2	JAN	0320	185	.03	.02	.00	0.
1	JAN	1455	36	.00	.00	.00	0.	2	JAN	0325	186	.03	.03	.00	0.
1	JAN	1500	37	.00	.00	.00	0.	2	JAN	0330	187	.03	.03	.00	1.
1	JAN	1505	38	.00	.00	.00	0.	2	JAN	0335	188	.03	.03	.00	1.
1	JAN	1510	39	.00	.00	.00	0.	2	JAN	0340	189	.04	.04	.00	1.
1	JAN	1515	40	.00	.00	.00	0.	2	JAN	0345	190	.05	.04	.01	1.

1 JAN 1520	41	.00	.00	.00	0.	*	2 JAN 0350	191	.07	.06	.01	2.
1 JAN 1525	42	.00	.00	.00	0.	*	2 JAN 0355	192	.10	.08	.02	3.
1 JAN 1530	43	.00	.00	.00	0.	*	2 JAN 0400	193	.35	.27	.08	9.
1 JAN 1535	44	.00	.00	.00	0.	*	2 JAN 0405	194	.06	.04	.02	15.
1 JAN 1540	45	.00	.00	.00	0.	*	2 JAN 0410	195	.04	.03	.01	14.
1 JAN 1545	46	.00	.00	.00	0.	*	2 JAN 0415	196	.03	.02	.01	10.
1 JAN 1550	47	.00	.00	.00	0.	*	2 JAN 0420	197	.02	.02	.01	7.
1 JAN 1555	48	.00	.00	.00	0.	*	2 JAN 0425	198	.02	.01	.01	5.
1 JAN 1600	49	.00	.00	.00	0.	*	2 JAN 0430	199	.02	.01	.01	4.
1 JAN 1605	50	.00	.00	.00	0.	*	2 JAN 0435	200	.02	.01	.01	3.
1 JAN 1610	51	.00	.00	.00	0.	*	2 JAN 0440	201	.02	.01	.01	3.
1 JAN 1615	52	.00	.00	.00	0.	*	2 JAN 0445	202	.01	.01	.00	3.
1 JAN 1620	53	.00	.00	.00	0.	*	2 JAN 0450	203	.01	.01	.00	2.
1 JAN 1625	54	.00	.00	.00	0.	*	2 JAN 0455	204	.01	.01	.00	2.
1 JAN 1630	55	.00	.00	.00	0.	*	2 JAN 0500	205	.01	.01	.00	2.
1 JAN 1635	56	.00	.00	.00	0.	*	2 JAN 0505	206	.01	.01	.00	2.
1 JAN 1640	57	.00	.00	.00	0.	*	2 JAN 0510	207	.01	.01	.00	2.
1 JAN 1645	58	.00	.00	.00	0.	*	2 JAN 0515	208	.01	.01	.00	2.
1 JAN 1650	59	.00	.00	.00	0.	*	2 JAN 0520	209	.01	.01	.00	2.
1 JAN 1655	60	.00	.00	.00	0.	*	2 JAN 0525	210	.01	.01	.00	2.
1 JAN 1700	61	.00	.00	.00	0.	*	2 JAN 0530	211	.01	.01	.00	2.
1 JAN 1705	62	.00	.00	.00	0.	*	2 JAN 0535	212	.01	.01	.00	2.
1 JAN 1710	63	.00	.00	.00	0.	*	2 JAN 0540	213	.01	.01	.00	2.
1 JAN 1715	64	.00	.00	.00	0.	*	2 JAN 0545	214	.01	.01	.00	1.
1 JAN 1720	65	.00	.00	.00	0.	*	2 JAN 0550	215	.01	.01	.00	1.
1 JAN 1725	66	.00	.00	.00	0.	*	2 JAN 0555	216	.01	.01	.00	1.
1 JAN 1730	67	.00	.00	.00	0.	*	2 JAN 0600	217	.01	.00	.00	1.
1 JAN 1735	68	.00	.00	.00	0.	*	2 JAN 0605	218	.01	.00	.00	1.
1 JAN 1740	69	.00	.00	.00	0.	*	2 JAN 0610	219	.01	.00	.00	1.
1 JAN 1745	70	.00	.00	.00	0.	*	2 JAN 0615	220	.01	.00	.00	1.
1 JAN 1750	71	.00	.00	.00	0.	*	2 JAN 0620	221	.01	.00	.00	1.
1 JAN 1755	72	.00	.00	.00	0.	*	2 JAN 0625	222	.01	.00	.00	1.
1 JAN 1800	73	.00	.00	.00	0.	*	2 JAN 0630	223	.01	.00	.00	1.
1 JAN 1805	74	.00	.00	.00	0.	*	2 JAN 0635	224	.01	.00	.00	1.
1 JAN 1810	75	.00	.00	.00	0.	*	2 JAN 0640	225	.01	.00	.00	1.
1 JAN 1815	76	.00	.00	.00	0.	*	2 JAN 0645	226	.01	.00	.00	1.
1 JAN 1820	77	.00	.00	.00	0.	*	2 JAN 0650	227	.01	.00	.00	1.
1 JAN 1825	78	.00	.00	.00	0.	*	2 JAN 0655	228	.01	.00	.00	1.
1 JAN 1830	79	.00	.00	.00	0.	*	2 JAN 0700	229	.01	.00	.00	1.
1 JAN 1835	80	.00	.00	.00	0.	*	2 JAN 0705	230	.01	.00	.00	1.
1 JAN 1840	81	.00	.00	.00	0.	*	2 JAN 0710	231	.01	.00	.00	1.
1 JAN 1845	82	.00	.00	.00	0.	*	2 JAN 0715	232	.01	.00	.00	1.
1 JAN 1850	83	.00	.00	.00	0.	*	2 JAN 0720	233	.01	.00	.00	1.
1 JAN 1855	84	.00	.00	.00	0.	*	2 JAN 0725	234	.00	.00	.00	1.
1 JAN 1900	85	.00	.00	.00	0.	*	2 JAN 0730	235	.00	.00	.00	1.
1 JAN 1905	86	.00	.00	.00	0.	*	2 JAN 0735	236	.00	.00	.00	1.
1 JAN 1910	87	.00	.00	.00	0.	*	2 JAN 0740	237	.00	.00	.00	1.
1 JAN 1915	88	.00	.00	.00	0.	*	2 JAN 0745	238	.00	.00	.00	1.
1 JAN 1920	89	.00	.00	.00	0.	*	2 JAN 0750	239	.00	.00	.00	1.
1 JAN 1925	90	.00	.00	.00	0.	*	2 JAN 0755	240	.00	.00	.00	1.
1 JAN 1930	91	.00	.00	.00	0.	*	2 JAN 0800	241	.00	.00	.00	1.
1 JAN 1935	92	.00	.00	.00	0.	*	2 JAN 0805	242	.00	.00	.00	1.
1 JAN 1940	93	.00	.00	.00	0.	*	2 JAN 0810	243	.00	.00	.00	1.
1 JAN 1945	94	.00	.00	.00	0.	*	2 JAN 0815	244	.00	.00	.00	1.
1 JAN 1950	95	.00	.00	.00	0.	*	2 JAN 0820	245	.00	.00	.00	1.
1 JAN 1955	96	.00	.00	.00	0.	*	2 JAN 0825	246	.00	.00	.00	1.
1 JAN 2000	97	.00	.00	.00	0.	*	2 JAN 0830	247	.00	.00	.00	1.
1 JAN 2005	98	.00	.00	.00	0.	*	2 JAN 0835	248	.00	.00	.00	1.
1 JAN 2010	99	.00	.00	.00	0.	*	2 JAN 0840	249	.00	.00	.00	1.
1 JAN 2015	100	.00	.00	.00	0.	*	2 JAN 0845	250	.00	.00	.00	1.

1 JAN 2020	101	.00	.00	.00	0.	*	2 JAN 0850	251	.00	.00	.00	1.
1 JAN 2025	102	.00	.00	.00	0.	*	2 JAN 0855	252	.00	.00	.00	1.
1 JAN 2030	103	.00	.00	.00	0.	*	2 JAN 0900	253	.00	.00	.00	1.
1 JAN 2035	104	.00	.00	.00	0.	*	2 JAN 0905	254	.00	.00	.00	1.
1 JAN 2040	105	.00	.00	.00	0.	*	2 JAN 0910	255	.00	.00	.00	1.
1 JAN 2045	106	.00	.00	.00	0.	*	2 JAN 0915	256	.00	.00	.00	1.
1 JAN 2050	107	.00	.00	.00	0.	*	2 JAN 0920	257	.00	.00	.00	1.
1 JAN 2055	108	.00	.00	.00	0.	*	2 JAN 0925	258	.00	.00	.00	1.
1 JAN 2100	109	.00	.00	.00	0.	*	2 JAN 0930	259	.00	.00	.00	1.
1 JAN 2105	110	.00	.00	.00	0.	*	2 JAN 0935	260	.00	.00	.00	1.
1 JAN 2110	111	.00	.00	.00	0.	*	2 JAN 0940	261	.00	.00	.00	1.
1 JAN 2115	112	.00	.00	.00	0.	*	2 JAN 0945	262	.00	.00	.00	1.
1 JAN 2120	113	.01	.01	.00	0.	*	2 JAN 0950	263	.00	.00	.00	1.
1 JAN 2125	114	.01	.01	.00	0.	*	2 JAN 0955	264	.00	.00	.00	1.
1 JAN 2130	115	.01	.01	.00	0.	*	2 JAN 1000	265	.00	.00	.00	1.
1 JAN 2135	116	.01	.01	.00	0.	*	2 JAN 1005	266	.00	.00	.00	1.
1 JAN 2140	117	.01	.01	.00	0.	*	2 JAN 1010	267	.00	.00	.00	1.
1 JAN 2145	118	.01	.01	.00	0.	*	2 JAN 1015	268	.00	.00	.00	1.
1 JAN 2150	119	.01	.01	.00	0.	*	2 JAN 1020	269	.00	.00	.00	1.
1 JAN 2155	120	.01	.01	.00	0.	*	2 JAN 1025	270	.00	.00	.00	1.
1 JAN 2200	121	.01	.01	.00	0.	*	2 JAN 1030	271	.00	.00	.00	1.
1 JAN 2205	122	.01	.01	.00	0.	*	2 JAN 1035	272	.00	.00	.00	1.
1 JAN 2210	123	.01	.01	.00	0.	*	2 JAN 1040	273	.00	.00	.00	1.
1 JAN 2215	124	.01	.01	.00	0.	*	2 JAN 1045	274	.00	.00	.00	1.
1 JAN 2220	125	.01	.01	.00	0.	*	2 JAN 1050	275	.00	.00	.00	1.
1 JAN 2225	126	.01	.01	.00	0.	*	2 JAN 1055	276	.00	.00	.00	1.
1 JAN 2230	127	.01	.01	.00	0.	*	2 JAN 1100	277	.00	.00	.00	1.
1 JAN 2235	128	.01	.01	.00	0.	*	2 JAN 1105	278	.00	.00	.00	1.
1 JAN 2240	129	.01	.01	.00	0.	*	2 JAN 1110	279	.00	.00	.00	1.
1 JAN 2245	130	.01	.01	.00	0.	*	2 JAN 1115	280	.00	.00	.00	1.
1 JAN 2250	131	.01	.01	.00	0.	*	2 JAN 1120	281	.00	.00	.00	1.
1 JAN 2255	132	.01	.01	.00	0.	*	2 JAN 1125	282	.00	.00	.00	1.
1 JAN 2300	133	.01	.01	.00	0.	*	2 JAN 1130	283	.00	.00	.00	1.
1 JAN 2305	134	.01	.01	.00	0.	*	2 JAN 1135	284	.00	.00	.00	1.
1 JAN 2310	135	.01	.01	.00	0.	*	2 JAN 1140	285	.00	.00	.00	1.
1 JAN 2315	136	.01	.01	.00	0.	*	2 JAN 1145	286	.00	.00	.00	1.
1 JAN 2320	137	.01	.01	.00	0.	*	2 JAN 1150	287	.00	.00	.00	1.
1 JAN 2325	138	.01	.01	.00	0.	*	2 JAN 1155	288	.00	.00	.00	1.
1 JAN 2330	139	.01	.01	.00	0.	*	2 JAN 1200	289	.00	.00	.00	0.
1 JAN 2335	140	.01	.01	.00	0.	*	2 JAN 1205	290	.00	.00	.00	0.
1 JAN 2340	141	.01	.01	.00	0.	*	2 JAN 1210	291	.00	.00	.00	0.
1 JAN 2345	142	.01	.01	.00	0.	*	2 JAN 1215	292	.00	.00	.00	0.
1 JAN 2350	143	.01	.01	.00	0.	*	2 JAN 1220	293	.00	.00	.00	0.
1 JAN 2355	144	.01	.01	.00	0.	*	2 JAN 1225	294	.00	.00	.00	0.
2 JAN 0000	145	.01	.01	.00	0.	*	2 JAN 1230	295	.00	.00	.00	0.
2 JAN 0005	146	.01	.01	.00	0.	*	2 JAN 1235	296	.00	.00	.00	0.
2 JAN 0010	147	.01	.01	.00	0.	*	2 JAN 1240	297	.00	.00	.00	0.
2 JAN 0015	148	.01	.01	.00	0.	*	2 JAN 1245	298	.00	.00	.00	0.
2 JAN 0020	149	.01	.01	.00	0.	*	2 JAN 1250	299	.00	.00	.00	0.
2 JAN 0025	150	.01	.01	.00	0.	*	2 JAN 1255	300	.00	.00	.00	0.
						*						

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TOTAL RAINFALL = 2.49, TOTAL LOSS = 2.14, TOTAL EXCESS = .35

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
15.	16.08	(CFS)	2.	1.	1.	1.
		(INCHES)	.310	.354	.354	.354
		(AC-FT)	1.	1.	1.	1.

CUMULATIVE AREA = .06 SQ MI

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          *            *
78 KK     *   2_1_1A   *
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COMBINE BASIN 1A AND BASIN 1 WITH BASIN 2

80 HC HYDROGRAPH COMBINATION

ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 2_1_1A

SUM OF 2 HYDROGRAPHS

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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 JAN 1200	1	0.	1 JAN 1815	76	0.	2 JAN 0030	151	0.	2 JAN 0645	226	2.
1 JAN 1205	2	0.	1 JAN 1820	77	0.	2 JAN 0035	152	0.	2 JAN 0650	227	2.
1 JAN 1210	3	0.	1 JAN 1825	78	0.	2 JAN 0040	153	0.	2 JAN 0655	228	2.
1 JAN 1215	4	0.	1 JAN 1830	79	0.	2 JAN 0045	154	0.	2 JAN 0700	229	2.
1 JAN 1220	5	0.	1 JAN 1835	80	0.	2 JAN 0050	155	0.	2 JAN 0705	230	2.
1 JAN 1225	6	0.	1 JAN 1840	81	0.	2 JAN 0055	156	0.	2 JAN 0710	231	2.
1 JAN 1230	7	0.	1 JAN 1845	82	0.	2 JAN 0100	157	0.	2 JAN 0715	232	2.
1 JAN 1235	8	0.	1 JAN 1850	83	0.	2 JAN 0105	158	0.	2 JAN 0720	233	2.
1 JAN 1240	9	0.	1 JAN 1855	84	0.	2 JAN 0110	159	0.	2 JAN 0725	234	2.
1 JAN 1245	10	0.	1 JAN 1900	85	0.	2 JAN 0115	160	0.	2 JAN 0730	235	2.
1 JAN 1250	11	0.	1 JAN 1905	86	0.	2 JAN 0120	161	0.	2 JAN 0735	236	2.
1 JAN 1255	12	0.	1 JAN 1910	87	0.	2 JAN 0125	162	0.	2 JAN 0740	237	2.
1 JAN 1300	13	0.	1 JAN 1915	88	0.	2 JAN 0130	163	0.	2 JAN 0745	238	2.
1 JAN 1305	14	0.	1 JAN 1920	89	0.	2 JAN 0135	164	0.	2 JAN 0750	239	2.
1 JAN 1310	15	0.	1 JAN 1925	90	0.	2 JAN 0140	165	0.	2 JAN 0755	240	2.
1 JAN 1315	16	0.	1 JAN 1930	91	0.	2 JAN 0145	166	0.	2 JAN 0800	241	2.
1 JAN 1320	17	0.	1 JAN 1935	92	0.	2 JAN 0150	167	0.	2 JAN 0805	242	2.
1 JAN 1325	18	0.	1 JAN 1940	93	0.	2 JAN 0155	168	0.	2 JAN 0810	243	2.
1 JAN 1330	19	0.	1 JAN 1945	94	0.	2 JAN 0200	169	0.	2 JAN 0815	244	2.
1 JAN 1335	20	0.	1 JAN 1950	95	0.	2 JAN 0205	170	0.	2 JAN 0820	245	2.
1 JAN 1340	21	0.	1 JAN 1955	96	0.	2 JAN 0210	171	0.	2 JAN 0825	246	2.
1 JAN 1345	22	0.	1 JAN 2000	97	0.	2 JAN 0215	172	0.	2 JAN 0830	247	2.
1 JAN 1350	23	0.	1 JAN 2005	98	0.	2 JAN 0220	173	0.	2 JAN 0835	248	2.
1 JAN 1355	24	0.	1 JAN 2010	99	0.	2 JAN 0225	174	0.	2 JAN 0840	249	2.
1 JAN 1400	25	0.	1 JAN 2015	100	0.	2 JAN 0230	175	0.	2 JAN 0845	250	2.
1 JAN 1405	26	0.	1 JAN 2020	101	0.	2 JAN 0235	176	0.	2 JAN 0850	251	2.
1 JAN 1410	27	0.	1 JAN 2025	102	0.	2 JAN 0240	177	0.	2 JAN 0855	252	2.
1 JAN 1415	28	0.	1 JAN 2030	103	0.	2 JAN 0245	178	0.	2 JAN 0900	253	2.
1 JAN 1420	29	0.	1 JAN 2035	104	0.	2 JAN 0250	179	0.	2 JAN 0905	254	2.
1 JAN 1425	30	0.	1 JAN 2040	105	0.	2 JAN 0255	180	0.	2 JAN 0910	255	2.

1 JAN 1430	31	0.	*	1 JAN 2045	106	0.	*	2 JAN 0300	181	0.	*	2 JAN 0915	256	2.
1 JAN 1435	32	0.	*	1 JAN 2050	107	0.	*	2 JAN 0305	182	0.	*	2 JAN 0920	257	1.
1 JAN 1440	33	0.	*	1 JAN 2055	108	0.	*	2 JAN 0310	183	0.	*	2 JAN 0925	258	1.
1 JAN 1445	34	0.	*	1 JAN 2100	109	0.	*	2 JAN 0315	184	0.	*	2 JAN 0930	259	1.
1 JAN 1450	35	0.	*	1 JAN 2105	110	0.	*	2 JAN 0320	185	0.	*	2 JAN 0935	260	1.
1 JAN 1455	36	0.	*	1 JAN 2110	111	0.	*	2 JAN 0325	186	0.	*	2 JAN 0940	261	1.
1 JAN 1500	37	0.	*	1 JAN 2115	112	0.	*	2 JAN 0330	187	1.	*	2 JAN 0945	262	1.
1 JAN 1505	38	0.	*	1 JAN 2120	113	0.	*	2 JAN 0335	188	1.	*	2 JAN 0950	263	1.
1 JAN 1510	39	0.	*	1 JAN 2125	114	0.	*	2 JAN 0340	189	1.	*	2 JAN 0955	264	1.
1 JAN 1515	40	0.	*	1 JAN 2130	115	0.	*	2 JAN 0345	190	1.	*	2 JAN 1000	265	1.
1 JAN 1520	41	0.	*	1 JAN 2135	116	0.	*	2 JAN 0350	191	2.	*	2 JAN 1005	266	1.
1 JAN 1525	42	0.	*	1 JAN 2140	117	0.	*	2 JAN 0355	192	3.	*	2 JAN 1010	267	1.
1 JAN 1530	43	0.	*	1 JAN 2145	118	0.	*	2 JAN 0400	193	10.	*	2 JAN 1015	268	1.
1 JAN 1535	44	0.	*	1 JAN 2150	119	0.	*	2 JAN 0405	194	19.	*	2 JAN 1020	269	1.
1 JAN 1540	45	0.	*	1 JAN 2155	120	0.	*	2 JAN 0410	195	20.	*	2 JAN 1025	270	1.
1 JAN 1545	46	0.	*	1 JAN 2200	121	0.	*	2 JAN 0415	196	17.	*	2 JAN 1030	271	1.
1 JAN 1550	47	0.	*	1 JAN 2205	122	0.	*	2 JAN 0420	197	14.	*	2 JAN 1035	272	1.
1 JAN 1555	48	0.	*	1 JAN 2210	123	0.	*	2 JAN 0425	198	11.	*	2 JAN 1040	273	1.
1 JAN 1600	49	0.	*	1 JAN 2215	124	0.	*	2 JAN 0430	199	9.	*	2 JAN 1045	274	1.
1 JAN 1605	50	0.	*	1 JAN 2220	125	0.	*	2 JAN 0435	200	8.	*	2 JAN 1050	275	1.
1 JAN 1610	51	0.	*	1 JAN 2225	126	0.	*	2 JAN 0440	201	7.	*	2 JAN 1055	276	1.
1 JAN 1615	52	0.	*	1 JAN 2230	127	0.	*	2 JAN 0445	202	6.	*	2 JAN 1100	277	1.
1 JAN 1620	53	0.	*	1 JAN 2235	128	0.	*	2 JAN 0450	203	6.	*	2 JAN 1105	278	1.
1 JAN 1625	54	0.	*	1 JAN 2240	129	0.	*	2 JAN 0455	204	5.	*	2 JAN 1110	279	1.
1 JAN 1630	55	0.	*	1 JAN 2245	130	0.	*	2 JAN 0500	205	5.	*	2 JAN 1115	280	1.
1 JAN 1635	56	0.	*	1 JAN 2250	131	0.	*	2 JAN 0505	206	5.	*	2 JAN 1120	281	1.
1 JAN 1640	57	0.	*	1 JAN 2255	132	0.	*	2 JAN 0510	207	4.	*	2 JAN 1125	282	1.
1 JAN 1645	58	0.	*	1 JAN 2300	133	0.	*	2 JAN 0515	208	4.	*	2 JAN 1130	283	1.
1 JAN 1650	59	0.	*	1 JAN 2305	134	0.	*	2 JAN 0520	209	4.	*	2 JAN 1135	284	1.
1 JAN 1655	60	0.	*	1 JAN 2310	135	0.	*	2 JAN 0525	210	4.	*	2 JAN 1140	285	1.
1 JAN 1700	61	0.	*	1 JAN 2315	136	0.	*	2 JAN 0530	211	4.	*	2 JAN 1145	286	1.
1 JAN 1705	62	0.	*	1 JAN 2320	137	0.	*	2 JAN 0535	212	3.	*	2 JAN 1150	287	1.
1 JAN 1710	63	0.	*	1 JAN 2325	138	0.	*	2 JAN 0540	213	3.	*	2 JAN 1155	288	1.
1 JAN 1715	64	0.	*	1 JAN 2330	139	0.	*	2 JAN 0545	214	3.	*	2 JAN 1200	289	1.
1 JAN 1720	65	0.	*	1 JAN 2335	140	0.	*	2 JAN 0550	215	3.	*	2 JAN 1205	290	1.
1 JAN 1725	66	0.	*	1 JAN 2340	141	0.	*	2 JAN 0555	216	3.	*	2 JAN 1210	291	1.
1 JAN 1730	67	0.	*	1 JAN 2345	142	0..	*	2 JAN 0600	217	3.	*	2 JAN 1215	292	0.
1 JAN 1735	68	0.	*	1 JAN 2350	143	0.	*	2 JAN 0605	218	3.	*	2 JAN 1220	293	0.
1 JAN 1740	69	0.	*	1 JAN 2355	144	0.	*	2 JAN 0610	219	3.	*	2 JAN 1225	294	0.
1 JAN 1745	70	0.	*	2 JAN 0000	145	0.	*	2 JAN 0615	220	3.	*	2 JAN 1230	295	0.
1 JAN 1750	71	0.	*	2 JAN 0005	146	0.	*	2 JAN 0620	221	3.	*	2 JAN 1235	296	0.
1 JAN 1755	72	0.	*	2 JAN 0010	147	0.	*	2 JAN 0625	222	2.	*	2 JAN 1240	297	0.
1 JAN 1800	73	0.	*	2 JAN 0015	148	0.	*	2 JAN 0630	223	2.	*	2 JAN 1245	298	0.
1 JAN 1805	74	0.	*	2 JAN 0020	149	0.	*	2 JAN 0635	224	2.	*	2 JAN 1250	299	0.
1 JAN 1810	75	0.	*	2 JAN 0025	150	0.	*	2 JAN 0640	225	2.	*	2 JAN 1255	300	0.
			*				*				*			

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
20.	16.17	(CFS)	4.	1.	1.	1.
		(INCHES)	.218	.252	.252	.252
		(AC-FT)	2.	2.	2.	2.

CUMULATIVE AREA = .16 SQ MI

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          *            *
81 KK     *     DET_2  *
          *            *
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DETAIN BASINS 1A, 1 AND 2 IN THE SUMP NEAR UNION STREET & 101

HYDROGRAPH ROUTING DATA

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83 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

84 SA              AREA          .0        .1       3.7       8.3       8.3

85 SQ          DISCHARGE         0.        0.        0.        0.       20.

86 SE          ELEVATION      63.00     64.00     66.00     68.00     68.10
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COMPUTED STORAGE-ELEVATION DATA

STORAGE	.00	.03	2.95	14.65	15.48
ELEVATION	63.00	64.00	66.00	68.00	68.10

HYDROGRAPH AT STATION DET_2

DA MON HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA MON HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA MON HRMN	ORD	OUTFLOW	STORAGE	STAGE
1 JAN 1200	1	0.	3.0	66.0	1 JAN 2020	101	0.	3.0	66.0	2 JAN 0440	201	0.	3.8	66.1
1 JAN 1205	2	0.	3.0	66.0	1 JAN 2025	102	0.	3.0	66.0	2 JAN 0445	202	0.	3.8	66.2
1 JAN 1210	3	0.	3.0	66.0	1 JAN 2030	103	0.	3.0	66.0	2 JAN 0450	203	0.	3.9	66.2
1 JAN 1215	4	0.	3.0	66.0	1 JAN 2035	104	0.	3.0	66.0	2 JAN 0455	204	0.	3.9	66.2
1 JAN 1220	5	0.	3.0	66.0	1 JAN 2040	105	0.	3.0	66.0	2 JAN 0500	205	0.	4.0	66.2
1 JAN 1225	6	0.	3.0	66.0	1 JAN 2045	106	0.	3.0	66.0	2 JAN 0505	206	0.	4.0	66.2
1 JAN 1230	7	0.	3.0	66.0	1 JAN 2050	107	0.	3.0	66.0	2 JAN 0510	207	0.	4.0	66.2
1 JAN 1235	8	0.	3.0	66.0	1 JAN 2055	108	0.	3.0	66.0	2 JAN 0515	208	0.	4.0	66.2
1 JAN 1240	9	0.	3.0	66.0	1 JAN 2100	109	0.	3.0	66.0	2 JAN 0520	209	0.	4.1	66.2
1 JAN 1245	10	0.	3.0	66.0	1 JAN 2105	110	0.	3.0	66.0	2 JAN 0525	210	0.	4.1	66.2
1 JAN 1250	11	0.	3.0	66.0	1 JAN 2110	111	0.	3.0	66.0	2 JAN 0530	211	0.	4.1	66.2
1 JAN 1255	12	0.	3.0	66.0	1 JAN 2115	112	0.	3.0	66.0	2 JAN 0535	212	0.	4.1	66.2
1 JAN 1300	13	0.	3.0	66.0	1 JAN 2120	113	0.	3.0	66.0	2 JAN 0540	213	0.	4.2	66.2
1 JAN 1305	14	0.	3.0	66.0	1 JAN 2125	114	0.	3.0	66.0	2 JAN 0545	214	0.	4.2	66.2
1 JAN 1310	15	0.	3.0	66.0	1 JAN 2130	115	0.	3.0	66.0	2 JAN 0550	215	0.	4.2	66.2
1 JAN 1315	16	0.	3.0	66.0	1 JAN 2135	116	0.	3.0	66.0	2 JAN 0555	216	0.	4.2	66.2
1 JAN 1320	17	0.	3.0	66.0	1 JAN 2140	117	0.	3.0	66.0	2 JAN 0600	217	0.	4.3	66.2
1 JAN 1325	18	0.	3.0	66.0	1 JAN 2145	118	0.	3.0	66.0	2 JAN 0605	218	0.	4.3	66.2
1 JAN 1330	19	0.	3.0	66.0	1 JAN 2150	119	0.	3.0	66.0	2 JAN 0610	219	0.	4.3	66.2
1 JAN 1335	20	0.	3.0	66.0	1 JAN 2155	120	0.	3.0	66.0	2 JAN 0615	220	0.	4.3	66.2
1 JAN 1340	21	0.	3.0	66.0	1 JAN 2200	121	0.	3.0	66.0	2 JAN 0620	221	0.	4.3	66.2
1 JAN 1345	22	0.	3.0	66.0	1 JAN 2205	122	0.	3.0	66.0	2 JAN 0625	222	0.	4.3	66.2

1 JAN 1350	23	0.	3.0	66.0 *	1 JAN 2210	123	0.	3.0	66.0 *	2 JAN 0630	223	0.	4.4	66.2
1 JAN 1355	24	0.	3.0	66.0 *	1 JAN 2215	124	0.	3.0	66.0 *	2 JAN 0635	224	0.	4.4	66.2
1 JAN 1400	25	0.	3.0	66.0 *	1 JAN 2220	125	0.	3.0	66.0 *	2 JAN 0640	225	0.	4.4	66.2
1 JAN 1405	26	0.	3.0	66.0 *	1 JAN 2225	126	0.	3.0	66.0 *	2 JAN 0645	226	0.	4.4	66.2
1 JAN 1410	27	0.	3.0	66.0 *	1 JAN 2230	127	0.	3.0	66.0 *	2 JAN 0650	227	0.	4.4	66.3
1 JAN 1415	28	0.	3.0	66.0 *	1 JAN 2235	128	0.	3.0	66.0 *	2 JAN 0655	228	0.	4.4	66.3
1 JAN 1420	29	0.	3.0	66.0 *	1 JAN 2240	129	0.	3.0	66.0 *	2 JAN 0700	229	0.	4.5	66.3
1 JAN 1425	30	0.	3.0	66.0 *	1 JAN 2245	130	0.	3.0	66.0 *	2 JAN 0705	230	0.	4.5	66.3
1 JAN 1430	31	0.	3.0	66.0 *	1 JAN 2250	131	0.	3.0	66.0 *	2 JAN 0710	231	0.	4.5	66.3
1 JAN 1435	32	0.	3.0	66.0 *	1 JAN 2255	132	0.	3.0	66.0 *	2 JAN 0715	232	0.	4.5	66.3
1 JAN 1440	33	0.	3.0	66.0 *	1 JAN 2300	133	0.	3.0	66.0 *	2 JAN 0720	233	0.	4.5	66.3
1 JAN 1445	34	0.	3.0	66.0 *	1 JAN 2305	134	0.	3.0	66.0 *	2 JAN 0725	234	0.	4.5	66.3
1 JAN 1450	35	0.	3.0	66.0 *	1 JAN 2310	135	0.	3.0	66.0 *	2 JAN 0730	235	0.	4.5	66.3
1 JAN 1455	36	0.	3.0	66.0 *	1 JAN 2315	136	0.	3.0	66.0 *	2 JAN 0735	236	0.	4.6	66.3
1 JAN 1500	37	0.	3.0	66.0 *	1 JAN 2320	137	0.	3.0	66.0 *	2 JAN 0740	237	0.	4.6	66.3
1 JAN 1505	38	0.	3.0	66.0 *	1 JAN 2325	138	0.	3.0	66.0 *	2 JAN 0745	238	0.	4.6	66.3
1 JAN 1510	39	0.	3.0	66.0 *	1 JAN 2330	139	0.	3.0	66.0 *	2 JAN 0750	239	0.	4.6	66.3
1 JAN 1515	40	0.	3.0	66.0 *	1 JAN 2335	140	0.	3.0	66.0 *	2 JAN 0755	240	0.	4.6	66.3
1 JAN 1520	41	0.	3.0	66.0 *	1 JAN 2340	141	0.	3.0	66.0 *	2 JAN 0800	241	0.	4.6	66.3
1 JAN 1525	42	0.	3.0	66.0 *	1 JAN 2345	142	0.	3.0	66.0 *	2 JAN 0805	242	0.	4.6	66.3
1 JAN 1530	43	0.	3.0	66.0 *	1 JAN 2350	143	0.	3.0	66.0 *	2 JAN 0810	243	0.	4.6	66.3
1 JAN 1535	44	0.	3.0	66.0 *	1 JAN 2355	144	0.	3.0	66.0 *	2 JAN 0815	244	0.	4.7	66.3
1 JAN 1540	45	0.	3.0	66.0 *	2 JAN 0000	145	0.	3.0	66.0 *	2 JAN 0820	245	0.	4.7	66.3
1 JAN 1545	46	0.	3.0	66.0 *	2 JAN 0005	146	0.	3.0	66.0 *	2 JAN 0825	246	0.	4.7	66.3
1 JAN 1550	47	0.	3.0	66.0 *	2 JAN 0010	147	0.	3.0	66.0 *	2 JAN 0830	247	0.	4.7	66.3
1 JAN 1555	48	0.	3.0	66.0 *	2 JAN 0015	148	0.	3.0	66.0 *	2 JAN 0835	248	0.	4.7	66.3
1 JAN 1600	49	0.	3.0	66.0 *	2 JAN 0020	149	0.	3.0	66.0 *	2 JAN 0840	249	0.	4.7	66.3
1 JAN 1605	50	0.	3.0	66.0 *	2 JAN 0025	150	0.	3.0	66.0 *	2 JAN 0845	250	0.	4.7	66.3
1 JAN 1610	51	0.	3.0	66.0 *	2 JAN 0030	151	0.	3.0	66.0 *	2 JAN 0850	251	0.	4.7	66.3
1 JAN 1615	52	0.	3.0	66.0 *	2 JAN 0035	152	0.	3.0	66.0 *	2 JAN 0855	252	0.	4.7	66.3
1 JAN 1620	53	0.	3.0	66.0 *	2 JAN 0040	153	0.	3.0	66.0 *	2 JAN 0900	253	0.	4.8	66.3
1 JAN 1625	54	0.	3.0	66.0 *	2 JAN 0045	154	0.	3.0	66.0 *	2 JAN 0905	254	0.	4.8	66.3
1 JAN 1630	55	0.	3.0	66.0 *	2 JAN 0050	155	0.	3.0	66.0 *	2 JAN 0910	255	0.	4.8	66.3
1 JAN 1635	56	0.	3.0	66.0 *	2 JAN 0055	156	0.	3.0	66.0 *	2 JAN 0915	256	0.	4.8	66.3
1 JAN 1640	57	0.	3.0	66.0 *	2 JAN 0100	157	0.	3.0	66.0 *	2 JAN 0920	257	0.	4.8	66.3
1 JAN 1645	58	0.	3.0	66.0 *	2 JAN 0105	158	0.	3.0	66.0 *	2 JAN 0925	258	0.	4.8	66.3
1 JAN 1650	59	0.	3.0	66.0 *	2 JAN 0110	159	0.	3.0	66.0 *	2 JAN 0930	259	0.	4.8	66.3
1 JAN 1655	60	0.	3.0	66.0 *	2 JAN 0115	160	0.	3.0	66.0 *	2 JAN 0935	260	0.	4.8	66.3
1 JAN 1700	61	0.	3.0	66.0 *	2 JAN 0120	161	0.	3.0	66.0 *	2 JAN 0940	261	0.	4.8	66.3
1 JAN 1705	62	0.	3.0	66.0 *	2 JAN 0125	162	0.	3.0	66.0 *	2 JAN 0945	262	0.	4.8	66.3
1 JAN 1710	63	0.	3.0	66.0 *	2 JAN 0130	163	0.	3.0	66.0 *	2 JAN 0950	263	0.	4.9	66.3
1 JAN 1715	64	0.	3.0	66.0 *	2 JAN 0135	164	0.	3.0	66.0 *	2 JAN 0955	264	0.	4.9	66.3
1 JAN 1720	65	0.	3.0	66.0 *	2 JAN 0140	165	0.	3.0	66.0 *	2 JAN 1000	265	0.	4.9	66.3
1 JAN 1725	66	0.	3.0	66.0 *	2 JAN 0145	166	0.	3.0	66.0 *	2 JAN 1005	266	0.	4.9	66.3
1 JAN 1730	67	0.	3.0	66.0 *	2 JAN 0150	167	0.	3.0	66.0 *	2 JAN 1010	267	0.	4.9	66.3
1 JAN 1735	68	0.	3.0	66.0 *	2 JAN 0155	168	0.	3.0	66.0 *	2 JAN 1015	268	0.	4.9	66.3
1 JAN 1740	69	0.	3.0	66.0 *	2 JAN 0200	169	0.	3.0	66.0 *	2 JAN 1020	269	0.	4.9	66.3
1 JAN 1745	70	0.	3.0	66.0 *	2 JAN 0205	170	0.	3.0	66.0 *	2 JAN 1025	270	0.	4.9	66.3
1 JAN 1750	71	0.	3.0	66.0 *	2 JAN 0210	171	0.	3.0	66.0 *	2 JAN 1030	271	0.	4.9	66.3
1 JAN 1755	72	0.	3.0	66.0 *	2 JAN 0215	172	0.	3.0	66.0 *	2 JAN 1035	272	0.	4.9	66.3
1 JAN 1800	73	0.	3.0	66.0 *	2 JAN 0220	173	0.	3.0	66.0 *	2 JAN 1040	273	0.	4.9	66.3
1 JAN 1805	74	0.	3.0	66.0 *	2 JAN 0225	174	0.	3.0	66.0 *	2 JAN 1045	274	0.	5.0	66.3
1 JAN 1810	75	0.	3.0	66.0 *	2 JAN 0230	175	0.	3.0	66.0 *	2 JAN 1050	275	0.	5.0	66.3
1 JAN 1815	76	0.	3.0	66.0 *	2 JAN 0235	176	0.	3.0	66.0 *	2 JAN 1055	276	0.	5.0	66.3
1 JAN 1820	77	0.	3.0	66.0 *	2 JAN 0240	177	0.	3.0	66.0 *	2 JAN 1100	277	0.	5.0	66.3
1 JAN 1825	78	0.	3.0	66.0 *	2 JAN 0245	178	0.	3.0	66.0 *	2 JAN 1105	278	0.	5.0	66.3
1 JAN 1830	79	0.	3.0	66.0 *	2 JAN 0250	179	0.	3.0	66.0 *	2 JAN 1110	279	0.	5.0	66.3
1 JAN 1835	80	0.	3.0	66.0 *	2 JAN 0255	180	0.	3.0	66.0 *	2 JAN 1115	280	0.	5.0	66.4
1 JAN 1840	81	0.	3.0	66.0 *	2 JAN 0300	181	0.	3.0	66.0 *	2 JAN 1120	281	0.	5.0	66.4
1 JAN 1845	82	0.	3.0	66.0 *	2 JAN 0305	182	0.	3.0	66.0 *	2 JAN 1125	282	0.	5.0	66.4

1 JAN 1850	83	0.	3.0	66.0 *	2 JAN 0310 183	0.	3.0	66.0 *	2 JAN 1130 283	0.	5.0	66.4
1 JAN 1855	84	0.	3.0	66.0 *	2 JAN 0315 184	0.	3.0	66.0 *	2 JAN 1135 284	0.	5.0	66.4
1 JAN 1900	85	0.	3.0	66.0 *	2 JAN 0320 185	0.	3.0	66.0 *	2 JAN 1140 285	0.	5.1	66.4
1 JAN 1905	86	0.	3.0	66.0 *	2 JAN 0325 186	0.	3.0	66.0 *	2 JAN 1145 286	0.	5.1	66.4
1 JAN 1910	87	0.	3.0	66.0 *	2 JAN 0330 187	0.	3.0	66.0 *	2 JAN 1150 287	0.	5.1	66.4
1 JAN 1915	88	0.	3.0	66.0 *	2 JAN 0335 188	0.	3.0	66.0 *	2 JAN 1155 288	0.	5.1	66.4
1 JAN 1920	89	0.	3.0	66.0 *	2 JAN 0340 189	0.	3.0	66.0 *	2 JAN 1200 289	0.	5.1	66.4
1 JAN 1925	90	0.	3.0	66.0 *	2 JAN 0345 190	0.	3.0	66.0 *	2 JAN 1205 290	0.	5.1	66.4
1 JAN 1930	91	0.	3.0	66.0 *	2 JAN 0350 191	0.	3.0	66.0 *	2 JAN 1210 291	0.	5.1	66.4
1 JAN 1935	92	0.	3.0	66.0 *	2 JAN 0355 192	0.	3.0	66.0 *	2 JAN 1215 292	0.	5.1	66.4
1 JAN 1940	93	0.	3.0	66.0 *	2 JAN 0400 193	0.	3.1	66.0 *	2 JAN 1220 293	0.	5.1	66.4
1 JAN 1945	94	0.	3.0	66.0 *	2 JAN 0405 194	0.	3.2	66.0 *	2 JAN 1225 294	0.	5.1	66.4
1 JAN 1950	95	0.	3.0	66.0 *	2 JAN 0410 195	0.	3.3	66.1 *	2 JAN 1230 295	0.	5.1	66.4
1 JAN 1955	96	0.	3.0	66.0 *	2 JAN 0415 196	0.	3.4	66.1 *	2 JAN 1235 296	0.	5.1	66.4
1 JAN 2000	97	0.	3.0	66.0 *	2 JAN 0420 197	0.	3.5	66.1 *	2 JAN 1240 297	0.	5.1	66.4
1 JAN 2005	98	0.	3.0	66.0 *	2 JAN 0425 198	0.	3.6	66.1 *	2 JAN 1245 298	0.	5.1	66.4
1 JAN 2010	99	0.	3.0	66.0 *	2 JAN 0430 199	0.	3.7	66.1 *	2 JAN 1250 299	0.	5.1	66.4
1 JAN 2015	100	0.	3.0	66.0 *	2 JAN 0435 200	0.	3.7	66.1 *	2 JAN 1255 300	0.	5.1	66.4
				*				*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
0.	.00	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
5.	24.92	5.	4.	4.	4.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
66.37	24.92	66.32	66.10	66.10	66.10

CUMULATIVE AREA = .16 SQ MI

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          *            *
87 KK     *          3 *
          *            *
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SUBBASIN RUNOFF DATA

88 BA SUBBASIN CHARACTERISTICS

TAREA .02 SUBBASIN AREA

PRECIPITATION DATA

27 PB STORM 2.49 BASIN TOTAL PRECIPITATION

27 PI INCREMENTAL PRECIPITATION PATTERN

.00 .00 .00 .00 .00 .00 .00 .00 .00 .00

.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.02	.02	.02	.02	.02	.02	.02
.02	.02	.02	.03	.03	.03	.03	.04	.05	.07
.10	.35	.06	.04	.03	.02	.02	.02	.02	.02
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00			

89 LS SCS LOSS RATE

STRTL	.90	INITIAL ABSTRACTION
CRVNBR	69.00	CURVE NUMBER
RTIMP	.00	PERCENT IMPERVIOUS AREA

90 UD SCS DIMENSIONLESS UNITGRAPH

TLAG	.09	LAG

***

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

UNIT HYDROGRAPH

0 END-OF-PERIOD ORDINATES

50. 65. 26. 9. 3. 1. 1. 0.

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HYDROGRAPH AT STATION 3

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DA MON HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	DA MON HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1 JAN 1200	1	.00	.00	.00	0.	2 JAN 0030	151	.01	.01	.00	0.
1 JAN 1205	2	.00	.00	.00	0.	2 JAN 0035	152	.01	.01	.00	0.
1 JAN 1210	3	.00	.00	.00	0.	2 JAN 0040	153	.01	.01	.00	0.
1 JAN 1215	4	.00	.00	.00	0.	2 JAN 0045	154	.01	.01	.00	0.
1 JAN 1220	5	.00	.00	.00	0.	2 JAN 0050	155	.01	.01	.00	0.
1 JAN 1225	6	.00	.00	.00	0.	2 JAN 0055	156	.01	.01	.00	0.
1 JAN 1230	7	.00	.00	.00	0.	2 JAN 0100	157	.01	.01	.00	0.

1 JAN 1235	8	.00	.00	.00	0.	*	2 JAN 0105	158	.01	.01	.00	0.
1 JAN 1240	9	.00	.00	.00	0.	*	2 JAN 0110	159	.01	.01	.00	0.
1 JAN 1245	10	.00	.00	.00	0.	*	2 JAN 0115	160	.01	.01	.00	0.
1 JAN 1250	11	.00	.00	.00	0.	*	2 JAN 0120	161	.01	.01	.00	0.
1 JAN 1255	12	.00	.00	.00	0.	*	2 JAN 0125	162	.01	.01	.00	0.
1 JAN 1300	13	.00	.00	.00	0.	*	2 JAN 0130	163	.01	.01	.00	0.
1 JAN 1305	14	.00	.00	.00	0.	*	2 JAN 0135	164	.01	.01	.00	0.
1 JAN 1310	15	.00	.00	.00	0.	*	2 JAN 0140	165	.01	.01	.00	0.
1 JAN 1315	16	.00	.00	.00	0.	*	2 JAN 0145	166	.01	.01	.00	0.
1 JAN 1320	17	.00	.00	.00	0.	*	2 JAN 0150	167	.01	.01	.00	0.
1 JAN 1325	18	.00	.00	.00	0.	*	2 JAN 0155	168	.01	.01	.00	0.
1 JAN 1330	19	.00	.00	.00	0.	*	2 JAN 0200	169	.01	.01	.00	0.
1 JAN 1335	20	.00	.00	.00	0.	*	2 JAN 0205	170	.01	.01	.00	0.
1 JAN 1340	21	.00	.00	.00	0.	*	2 JAN 0210	171	.01	.01	.00	0.
1 JAN 1345	22	.00	.00	.00	0.	*	2 JAN 0215	172	.01	.01	.00	0.
1 JAN 1350	23	.00	.00	.00	0.	*	2 JAN 0220	173	.01	.01	.00	0.
1 JAN 1355	24	.00	.00	.00	0.	*	2 JAN 0225	174	.01	.01	.00	0.
1 JAN 1400	25	.00	.00	.00	0.	*	2 JAN 0230	175	.02	.01	.00	0.
1 JAN 1405	26	.00	.00	.00	0.	*	2 JAN 0235	176	.02	.02	.00	0.
1 JAN 1410	27	.00	.00	.00	0.	*	2 JAN 0240	177	.02	.02	.00	0.
1 JAN 1415	28	.00	.00	.00	0.	*	2 JAN 0245	178	.02	.02	.00	0.
1 JAN 1420	29	.00	.00	.00	0.	*	2 JAN 0250	179	.02	.02	.00	0.
1 JAN 1425	30	.00	.00	.00	0.	*	2 JAN 0255	180	.02	.02	.00	0.
1 JAN 1430	31	.00	.00	.00	0.	*	2 JAN 0300	181	.02	.02	.00	0.
1 JAN 1435	32	.00	.00	.00	0.	*	2 JAN 0305	182	.02	.02	.00	0.
1 JAN 1440	33	.00	.00	.00	0.	*	2 JAN 0310	183	.02	.02	.00	0.
1 JAN 1445	34	.00	.00	.00	0.	*	2 JAN 0315	184	.02	.02	.00	0.
1 JAN 1450	35	.00	.00	.00	0.	*	2 JAN 0320	185	.03	.02	.00	0.
1 JAN 1455	36	.00	.00	.00	0.	*	2 JAN 0325	186	.03	.03	.00	0.
1 JAN 1500	37	.00	.00	.00	0.	*	2 JAN 0330	187	.03	.03	.00	0.
1 JAN 1505	38	.00	.00	.00	0.	*	2 JAN 0335	188	.03	.03	.00	1.
1 JAN 1510	39	.00	.00	.00	0.	*	2 JAN 0340	189	.04	.04	.01	1.
1 JAN 1515	40	.00	.00	.00	0.	*	2 JAN 0345	190	.05	.04	.01	1.
1 JAN 1520	41	.00	.00	.00	0.	*	2 JAN 0350	191	.07	.06	.01	1.
1 JAN 1525	42	.00	.00	.00	0.	*	2 JAN 0355	192	.10	.08	.02	2.
1 JAN 1530	43	.00	.00	.00	0.	*	2 JAN 0400	193	.35	.26	.09	6.
1 JAN 1535	44	.00	.00	.00	0.	*	2 JAN 0405	194	.06	.04	.02	7.
1 JAN 1540	45	.00	.00	.00	0.	*	2 JAN 0410	195	.04	.03	.01	4.
1 JAN 1545	46	.00	.00	.00	0.	*	2 JAN 0415	196	.03	.02	.01	3.
1 JAN 1550	47	.00	.00	.00	0.	*	2 JAN 0420	197	.02	.02	.01	2.
1 JAN 1555	48	.00	.00	.00	0.	*	2 JAN 0425	198	.02	.01	.01	1.
1 JAN 1600	49	.00	.00	.00	0.	*	2 JAN 0430	199	.02	.01	.01	1.
1 JAN 1605	50	.00	.00	.00	0.	*	2 JAN 0435	200	.02	.01	.01	1.
1 JAN 1610	51	.00	.00	.00	0.	*	2 JAN 0440	201	.02	.01	.01	1.
1 JAN 1615	52	.00	.00	.00	0.	*	2 JAN 0445	202	.01	.01	.01	1.
1 JAN 1620	53	.00	.00	.00	0.	*	2 JAN 0450	203	.01	.01	.01	1.
1 JAN 1625	54	.00	.00	.00	0.	*	2 JAN 0455	204	.01	.01	.00	1.
1 JAN 1630	55	.00	.00	.00	0.	*	2 JAN 0500	205	.01	.01	.00	1.
1 JAN 1635	56	.00	.00	.00	0.	*	2 JAN 0505	206	.01	.01	.00	1.
1 JAN 1640	57	.00	.00	.00	0.	*	2 JAN 0510	207	.01	.01	.00	1.
1 JAN 1645	58	.00	.00	.00	0.	*	2 JAN 0515	208	.01	.01	.00	1.
1 JAN 1650	59	.00	.00	.00	0.	*	2 JAN 0520	209	.01	.01	.00	1.
1 JAN 1655	60	.00	.00	.00	0.	*	2 JAN 0525	210	.01	.01	.00	1.
1 JAN 1700	61	.00	.00	.00	0.	*	2 JAN 0530	211	.01	.01	.00	1.
1 JAN 1705	62	.00	.00	.00	0.	*	2 JAN 0535	212	.01	.01	.00	1.
1 JAN 1710	63	.00	.00	.00	0.	*	2 JAN 0540	213	.01	.01	.00	1.
1 JAN 1715	64	.00	.00	.00	0.	*	2 JAN 0545	214	.01	.01	.00	1.
1 JAN 1720	65	.00	.00	.00	0.	*	2 JAN 0550	215	.01	.01	.00	1.
1 JAN 1725	66	.00	.00	.00	0.	*	2 JAN 0555	216	.01	.00	.00	1.
1 JAN 1730	67	.00	.00	.00	0.	*	2 JAN 0600	217	.01	.00	.00	0.

1	JAN	1735	68	.00	.00	.00	0.	*	2	JAN	0605	218	.01	.00	.00	0.
1	JAN	1740	69	.00	.00	.00	0.	*	2	JAN	0610	219	.01	.00	.00	0.
1	JAN	1745	70	.00	.00	.00	0.	*	2	JAN	0615	220	.01	.00	.00	0.
1	JAN	1750	71	.00	.00	.00	0.	*	2	JAN	0620	221	.01	.00	.00	0.
1	JAN	1755	72	.00	.00	.00	0.	*	2	JAN	0625	222	.01	.00	.00	0.
1	JAN	1800	73	.00	.00	.00	0.	*	2	JAN	0630	223	.01	.00	.00	0.
1	JAN	1805	74	.00	.00	.00	0.	*	2	JAN	0635	224	.01	.00	.00	0.
1	JAN	1810	75	.00	.00	.00	0.	*	2	JAN	0640	225	.01	.00	.00	0.
1	JAN	1815	76	.00	.00	.00	0.	*	2	JAN	0645	226	.01	.00	.00	0.
1	JAN	1820	77	.00	.00	.00	0.	*	2	JAN	0650	227	.01	.00	.00	0.
1	JAN	1825	78	.00	.00	.00	0.	*	2	JAN	0655	228	.01	.00	.00	0.
1	JAN	1830	79	.00	.00	.00	0.	*	2	JAN	0700	229	.01	.00	.00	0.
1	JAN	1835	80	.00	.00	.00	0.	*	2	JAN	0705	230	.01	.00	.00	0.
1	JAN	1840	81	.00	.00	.00	0.	*	2	JAN	0710	231	.01	.00	.00	0.
1	JAN	1845	82	.00	.00	.00	0.	*	2	JAN	0715	232	.01	.00	.00	0.
1	JAN	1850	83	.00	.00	.00	0.	*	2	JAN	0720	233	.01	.00	.00	0.
1	JAN	1855	84	.00	.00	.00	0.	*	2	JAN	0725	234	.00	.00	.00	0.
1	JAN	1900	85	.00	.00	.00	0.	*	2	JAN	0730	235	.00	.00	.00	0.
1	JAN	1905	86	.00	.00	.00	0.	*	2	JAN	0735	236	.00	.00	.00	0.
1	JAN	1910	87	.00	.00	.00	0.	*	2	JAN	0740	237	.00	.00	.00	0.
1	JAN	1915	88	.00	.00	.00	0.	*	2	JAN	0745	238	.00	.00	.00	0.
1	JAN	1920	89	.00	.00	.00	0.	*	2	JAN	0750	239	.00	.00	.00	0.
1	JAN	1925	90	.00	.00	.00	0.	*	2	JAN	0755	240	.00	.00	.00	0.
1	JAN	1930	91	.00	.00	.00	0.	*	2	JAN	0800	241	.00	.00	.00	0.
1	JAN	1935	92	.00	.00	.00	0.	*	2	JAN	0805	242	.00	.00	.00	0.
1	JAN	1940	93	.00	.00	.00	0.	*	2	JAN	0810	243	.00	.00	.00	0.
1	JAN	1945	94	.00	.00	.00	0.	*	2	JAN	0815	244	.00	.00	.00	0.
1	JAN	1950	95	.00	.00	.00	0.	*	2	JAN	0820	245	.00	.00	.00	0.
1	JAN	1955	96	.00	.00	.00	0.	*	2	JAN	0825	246	.00	.00	.00	0.
1	JAN	2000	97	.00	.00	.00	0.	*	2	JAN	0830	247	.00	.00	.00	0.
1	JAN	2005	98	.00	.00	.00	0.	*	2	JAN	0835	248	.00	.00	.00	0.
1	JAN	2010	99	.00	.00	.00	0.	*	2	JAN	0840	249	.00	.00	.00	0.
1	JAN	2015	100	.00	.00	.00	0.	*	2	JAN	0845	250	.00	.00	.00	0.
1	JAN	2020	101	.00	.00	.00	0.	*	2	JAN	0850	251	.00	.00	.00	0.
1	JAN	2025	102	.00	.00	.00	0.	*	2	JAN	0855	252	.00	.00	.00	0.
1	JAN	2030	103	.00	.00	.00	0.	*	2	JAN	0900	253	.00	.00	.00	0.
1	JAN	2035	104	.00	.00	.00	0.	*	2	JAN	0905	254	.00	.00	.00	0.
1	JAN	2040	105	.00	.00	.00	0.	*	2	JAN	0910	255	.00	.00	.00	0.
1	JAN	2045	106	.00	.00	.00	0.	*	2	JAN	0915	256	.00	.00	.00	0.
1	JAN	2050	107	.00	.00	.00	0.	*	2	JAN	0920	257	.00	.00	.00	0.
1	JAN	2055	108	.00	.00	.00	0.	*	2	JAN	0925	258	.00	.00	.00	0.
1	JAN	2100	109	.00	.00	.00	0.	*	2	JAN	0930	259	.00	.00	.00	0.
1	JAN	2105	110	.00	.00	.00	0.	*	2	JAN	0935	260	.00	.00	.00	0.
1	JAN	2110	111	.00	.00	.00	0.	*	2	JAN	0940	261	.00	.00	.00	0.
1	JAN	2115	112	.00	.00	.00	0.	*	2	JAN	0945	262	.00	.00	.00	0.
1	JAN	2120	113	.01	.01	.00	0.	*	2	JAN	0950	263	.00	.00	.00	0.
1	JAN	2125	114	.01	.01	.00	0.	*	2	JAN	0955	264	.00	.00	.00	0.
1	JAN	2130	115	.01	.01	.00	0.	*	2	JAN	1000	265	.00	.00	.00	0.
1	JAN	2135	116	.01	.01	.00	0.	*	2	JAN	1005	266	.00	.00	.00	0.
1	JAN	2140	117	.01	.01	.00	0.	*	2	JAN	1010	267	.00	.00	.00	0.
1	JAN	2145	118	.01	.01	.00	0.	*	2	JAN	1015	268	.00	.00	.00	0.
1	JAN	2150	119	.01	.01	.00	0.	*	2	JAN	1020	269	.00	.00	.00	0.
1	JAN	2155	120	.01	.01	.00	0.	*	2	JAN	1025	270	.00	.00	.00	0.
1	JAN	2200	121	.01	.01	.00	0.	*	2	JAN	1030	271	.00	.00	.00	0.
1	JAN	2205	122	.01	.01	.00	0.	*	2	JAN	1035	272	.00	.00	.00	0.
1	JAN	2210	123	.01	.01	.00	0.	*	2	JAN	1040	273	.00	.00	.00	0.
1	JAN	2215	124	.01	.01	.00	0.	*	2	JAN	1045	274	.00	.00	.00	0.
1	JAN	2220	125	.01	.01	.00	0.	*	2	JAN	1050	275	.00	.00	.00	0.
1	JAN	2225	126	.01	.01	.00	0.	*	2	JAN	1055	276	.00	.00	.00	0.
1	JAN	2230	127	.01	.01	.00	0.	*	2	JAN	1100	277	.00	.00	.00	0.

1 JAN 2235	128	.01	.01	.00	0.	*	2 JAN 1105	278	.00	.00	.00	0.
1 JAN 2240	129	.01	.01	.00	0.	*	2 JAN 1110	279	.00	.00	.00	0.
1 JAN 2245	130	.01	.01	.00	0.	*	2 JAN 1115	280	.00	.00	.00	0.
1 JAN 2250	131	.01	.01	.00	0.	*	2 JAN 1120	281	.00	.00	.00	0.
1 JAN 2255	132	.01	.01	.00	0.	*	2 JAN 1125	282	.00	.00	.00	0.
1 JAN 2300	133	.01	.01	.00	0.	*	2 JAN 1130	283	.00	.00	.00	0.
1 JAN 2305	134	.01	.01	.00	0.	*	2 JAN 1135	284	.00	.00	.00	0.
1 JAN 2310	135	.01	.01	.00	0.	*	2 JAN 1140	285	.00	.00	.00	0.
1 JAN 2315	136	.01	.01	.00	0.	*	2 JAN 1145	286	.00	.00	.00	0.
1 JAN 2320	137	.01	.01	.00	0.	*	2 JAN 1150	287	.00	.00	.00	0.
1 JAN 2325	138	.01	.01	.00	0.	*	2 JAN 1155	288	.00	.00	.00	0.
1 JAN 2330	139	.01	.01	.00	0.	*	2 JAN 1200	289	.00	.00	.00	0.
1 JAN 2335	140	.01	.01	.00	0.	*	2 JAN 1205	290	.00	.00	.00	0.
1 JAN 2340	141	.01	.01	.00	0.	*	2 JAN 1210	291	.00	.00	.00	0.
1 JAN 2345	142	.01	.01	.00	0.	*	2 JAN 1215	292	.00	.00	.00	0.
1 JAN 2350	143	.01	.01	.00	0.	*	2 JAN 1220	293	.00	.00	.00	0.
1 JAN 2355	144	.01	.01	.00	0.	*	2 JAN 1225	294	.00	.00	.00	0.
2 JAN 0000	145	.01	.01	.00	0.	*	2 JAN 1230	295	.00	.00	.00	0.
2 JAN 0005	146	.01	.01	.00	0.	*	2 JAN 1235	296	.00	.00	.00	0.
2 JAN 0010	147	.01	.01	.00	0.	*	2 JAN 1240	297	.00	.00	.00	0.
2 JAN 0015	148	.01	.01	.00	0.	*	2 JAN 1245	298	.00	.00	.00	0.
2 JAN 0020	149	.01	.01	.00	0.	*	2 JAN 1250	299	.00	.00	.00	0.
2 JAN 0025	150	.01	.01	.00	0.	*	2 JAN 1255	300	.00	.00	.00	0.
						*						

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TOTAL RAINFALL = 2.49, TOTAL LOSS = 2.08, TOTAL EXCESS = .42

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
7.	16.08	(CFS)	1.	0.	0.	0.
		(INCHES)	.365	.418	.418	.418
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = .02 SQ MI

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          **************
          *            *
91 KK     *        4   *
          *            *
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SUBBASIN RUNOFF DATA

92 BA SUBBASIN CHARACTERISTICS

TAREA .02 SUBBASIN AREA

PRECIPITATION DATA

27 PB STORM 2.49 BASIN TOTAL PRECIPITATION

27 PI INCREMENTAL PRECIPITATION PATTERN

.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.02	.02	.02	.02	.02	.02	.02
.02	.02	.02	.03	.03	.03	.03	.04	.05	.07
.10	.35	.06	.04	.03	.02	.02	.02	.02	.02
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00			

93 LS SCS LOSS RATE

STRTL	1.13	INITIAL ABSTRACTION
CRVNBR	64.00	CURVE NUMBER
RTIMP	.00	PERCENT IMPERVIOUS AREA

94 UD SCS DIMENSIONLESS UNITGRAPH

TLAG	.07	LAG

***

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

UNIT HYDROGRAPH
6 END-OF-PERIOD ORDINATES

71. 59. 17. 5. 2. 1.

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HYDROGRAPH AT STATION 4

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DA MON HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	DA MON HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1 JAN 1200	1	.00	.00	.00	0.	2 JAN 0030	151	.01	.01	.00	0.
1 JAN 1205	2	.00	.00	.00	0.	2 JAN 0035	152	.01	.01	.00	0.
1 JAN 1210	3	.00	.00	.00	0.	2 JAN 0040	153	.01	.01	.00	0.
1 JAN 1215	4	.00	.00	.00	0.	2 JAN 0045	154	.01	.01	.00	0.
1 JAN 1220	5	.00	.00	.00	0.	2 JAN 0050	155	.01	.01	.00	0.
1 JAN 1225	6	.00	.00	.00	0.	2 JAN 0055	156	.01	.01	.00	0.
1 JAN 1230	7	.00	.00	.00	0.	2 JAN 0100	157	.01	.01	.00	0.
1 JAN 1235	8	.00	.00	.00	0.	2 JAN 0105	158	.01	.01	.00	0.

1	JAN	1240	9	.00	.00	.00	0.	*	2	JAN	0110	159	.01	.01	.00	0.
1	JAN	1245	10	.00	.00	.00	0.	*	2	JAN	0115	160	.01	.01	.00	0.
1	JAN	1250	11	.00	.00	.00	0.	*	2	JAN	0120	161	.01	.01	.00	0.
1	JAN	1255	12	.00	.00	.00	0.	*	2	JAN	0125	162	.01	.01	.00	0.
1	JAN	1300	13	.00	.00	.00	0.	*	2	JAN	0130	163	.01	.01	.00	0.
1	JAN	1305	14	.00	.00	.00	0.	*	2	JAN	0135	164	.01	.01	.00	0.
1	JAN	1310	15	.00	.00	.00	0.	*	2	JAN	0140	165	.01	.01	.00	0.
1	JAN	1315	16	.00	.00	.00	0.	*	2	JAN	0145	166	.01	.01	.00	0.
1	JAN	1320	17	.00	.00	.00	0.	*	2	JAN	0150	167	.01	.01	.00	0.
1	JAN	1325	18	.00	.00	.00	0.	*	2	JAN	0155	168	.01	.01	.00	0.
1	JAN	1330	19	.00	.00	.00	0.	*	2	JAN	0200	169	.01	.01	.00	0.
1	JAN	1335	20	.00	.00	.00	0.	*	2	JAN	0205	170	.01	.01	.00	0.
1	JAN	1340	21	.00	.00	.00	0.	*	2	JAN	0210	171	.01	.01	.00	0.
1	JAN	1345	22	.00	.00	.00	0.	*	2	JAN	0215	172	.01	.01	.00	0.
1	JAN	1350	23	.00	.00	.00	0.	*	2	JAN	0220	173	.01	.01	.00	0.
1	JAN	1355	24	.00	.00	.00	0.	*	2	JAN	0225	174	.01	.01	.00	0.
1	JAN	1400	25	.00	.00	.00	0.	*	2	JAN	0230	175	.02	.02	.00	0.
1	JAN	1405	26	.00	.00	.00	0.	*	2	JAN	0235	176	.02	.02	.00	0.
1	JAN	1410	27	.00	.00	.00	0.	*	2	JAN	0240	177	.02	.02	.00	0.
1	JAN	1415	28	.00	.00	.00	0.	*	2	JAN	0245	178	.02	.02	.00	0.
1	JAN	1420	29	.00	.00	.00	0.	*	2	JAN	0250	179	.02	.02	.00	0.
1	JAN	1425	30	.00	.00	.00	0.	*	2	JAN	0255	180	.02	.02	.00	0.
1	JAN	1430	31	.00	.00	.00	0.	*	2	JAN	0300	181	.02	.02	.00	0.
1	JAN	1435	32	.00	.00	.00	0.	*	2	JAN	0305	182	.02	.02	.00	0.
1	JAN	1440	33	.00	.00	.00	0.	*	2	JAN	0310	183	.02	.02	.00	0.
1	JAN	1445	34	.00	.00	.00	0.	*	2	JAN	0315	184	.02	.02	.00	0.
1	JAN	1450	35	.00	.00	.00	0.	*	2	JAN	0320	185	.03	.03	.00	0.
1	JAN	1455	36	.00	.00	.00	0.	*	2	JAN	0325	186	.03	.03	.00	0.
1	JAN	1500	37	.00	.00	.00	0.	*	2	JAN	0330	187	.03	.03	.00	0.
1	JAN	1505	38	.00	.00	.00	0.	*	2	JAN	0335	188	.03	.03	.00	0.
1	JAN	1510	39	.00	.00	.00	0.	*	2	JAN	0340	189	.04	.04	.00	0.
1	JAN	1515	40	.00	.00	.00	0.	*	2	JAN	0345	190	.05	.04	.00	0.
1	JAN	1520	41	.00	.00	.00	0.	*	2	JAN	0350	191	.07	.06	.00	1.
1	JAN	1525	42	.00	.00	.00	0.	*	2	JAN	0355	192	.10	.09	.01	1.
1	JAN	1530	43	.00	.00	.00	0.	*	2	JAN	0400	193	.35	.29	.06	5.
1	JAN	1535	44	.00	.00	.00	0.	*	2	JAN	0405	194	.06	.04	.01	4.
1	JAN	1540	45	.00	.00	.00	0.	*	2	JAN	0410	195	.04	.03	.01	2.
1	JAN	1545	46	.00	.00	.00	0.	*	2	JAN	0415	196	.03	.02	.01	1.
1	JAN	1550	47	.00	.00	.00	0.	*	2	JAN	0420	197	.02	.02	.01	1.
1	JAN	1555	48	.00	.00	.00	0.	*	2	JAN	0425	198	.02	.02	.01	1.
1	JAN	1600	49	.00	.00	.00	0.	*	2	JAN	0430	199	.02	.01	.00	1.
1	JAN	1605	50	.00	.00	.00	0.	*	2	JAN	0435	200	.02	.01	.00	1.
1	JAN	1610	51	.00	.00	.00	0.	*	2	JAN	0440	201	.02	.01	.00	1.
1	JAN	1615	52	.00	.00	.00	0.	*	2	JAN	0445	202	.01	.01	.00	1.
1	JAN	1620	53	.00	.00	.00	0.	*	2	JAN	0450	203	.01	.01	.00	1.
1	JAN	1625	54	.00	.00	.00	0.	*	2	JAN	0455	204	.01	.01	.00	1.
1	JAN	1630	55	.00	.00	.00	0.	*	2	JAN	0500	205	.01	.01	.00	1.
1	JAN	1635	56	.00	.00	.00	0.	*	2	JAN	0505	206	.01	.01	.00	1.
1	JAN	1640	57	.00	.00	.00	0.	*	2	JAN	0510	207	.01	.01	.00	0.
1	JAN	1645	58	.00	.00	.00	0.	*	2	JAN	0515	208	.01	.01	.00	0.
1	JAN	1650	59	.00	.00	.00	0.	*	2	JAN	0520	209	.01	.01	.00	0.
1	JAN	1655	60	.00	.00	.00	0.	*	2	JAN	0525	210	.01	.01	.00	0.
1	JAN	1700	61	.00	.00	.00	0.	*	2	JAN	0530	211	.01	.01	.00	0.
1	JAN	1705	62	.00	.00	.00	0.	*	2	JAN	0535	212	.01	.01	.00	0.
1	JAN	1710	63	.00	.00	.00	0.	*	2	JAN	0540	213	.01	.01	.00	0.
1	JAN	1715	64	.00	.00	.00	0.	*	2	JAN	0545	214	.01	.01	.00	0.
1	JAN	1720	65	.00	.00	.00	0.	*	2	JAN	0550	215	.01	.01	.00	0.
1	JAN	1725	66	.00	.00	.00	0.	*	2	JAN	0555	216	.01	.01	.00	0.
1	JAN	1730	67	.00	.00	.00	0.	*	2	JAN	0600	217	.01	.01	.00	0.
1	JAN	1735	68	.00	.00	.00	0.	*	2	JAN	0605	218	.01	.00	.00	0.

1 JAN 1740	69	.00	.00	.00	0.	*	2 JAN 0610	219	.01	.00	.00	0.
1 JAN 1745	70	.00	.00	.00	0.	*	2 JAN 0615	220	.01	.00	.00	0.
1 JAN 1750	71	.00	.00	.00	0.	*	2 JAN 0620	221	.01	.00	.00	0.
1 JAN 1755	72	.00	.00	.00	0.	*	2 JAN 0625	222	.01	.00	.00	0.
1 JAN 1800	73	.00	.00	.00	0.	*	2 JAN 0630	223	.01	.00	.00	0.
1 JAN 1805	74	.00	.00	.00	0.	*	2 JAN 0635	224	.01	.00	.00	0.
1 JAN 1810	75	.00	.00	.00	0.	*	2 JAN 0640	225	.01	.00	.00	0.
1 JAN 1815	76	.00	.00	.00	0.	*	2 JAN 0645	226	.01	.00	.00	0.
1 JAN 1820	77	.00	.00	.00	0.	*	2 JAN 0650	227	.01	.00	.00	0.
1 JAN 1825	78	.00	.00	.00	0.	*	2 JAN 0655	228	.01	.00	.00	0.
1 JAN 1830	79	.00	.00	.00	0.	*	2 JAN 0700	229	.01	.00	.00	0.
1 JAN 1835	80	.00	.00	.00	0.	*	2 JAN 0705	230	.01	.00	.00	0.
1 JAN 1840	81	.00	.00	.00	0.	*	2 JAN 0710	231	.01	.00	.00	0.
1 JAN 1845	82	.00	.00	.00	0.	*	2 JAN 0715	232	.01	.00	.00	0.
1 JAN 1850	83	.00	.00	.00	0.	*	2 JAN 0720	233	.01	.00	.00	0.
1 JAN 1855	84	.00	.00	.00	0.	*	2 JAN 0725	234	.00	.00	.00	0.
1 JAN 1900	85	.00	.00	.00	0.	*	2 JAN 0730	235	.00	.00	.00	0.
1 JAN 1905	86	.00	.00	.00	0.	*	2 JAN 0735	236	.00	.00	.00	0.
1 JAN 1910	87	.00	.00	.00	0.	*	2 JAN 0740	237	.00	.00	.00	0.
1 JAN 1915	88	.00	.00	.00	0.	*	2 JAN 0745	238	.00	.00	.00	0.
1 JAN 1920	89	.00	.00	.00	0.	*	2 JAN 0750	239	.00	.00	.00	0.
1 JAN 1925	90	.00	.00	.00	0.	*	2 JAN 0755	240	.00	.00	.00	0.
1 JAN 1930	91	.00	.00	.00	0.	*	2 JAN 0800	241	.00	.00	.00	0.
1 JAN 1935	92	.00	.00	.00	0.	*	2 JAN 0805	242	.00	.00	.00	0.
1 JAN 1940	93	.00	.00	.00	0.	*	2 JAN 0810	243	.00	.00	.00	0.
1 JAN 1945	94	.00	.00	.00	0.	*	2 JAN 0815	244	.00	.00	.00	0.
1 JAN 1950	95	.00	.00	.00	0.	*	2 JAN 0820	245	.00	.00	.00	0.
1 JAN 1955	96	.00	.00	.00	0.	*	2 JAN 0825	246	.00	.00	.00	0.
1 JAN 2000	97	.00	.00	.00	0.	*	2 JAN 0830	247	.00	.00	.00	0.
1 JAN 2005	98	.00	.00	.00	0.	*	2 JAN 0835	248	.00	.00	.00	0.
1 JAN 2010	99	.00	.00	.00	0.	*	2 JAN 0840	249	.00	.00	.00	0.
1 JAN 2015	100	.00	.00	.00	0.	*	2 JAN 0845	250	.00	.00	.00	0.
1 JAN 2020	101	.00	.00	.00	0.	*	2 JAN 0850	251	.00	.00	.00	0.
1 JAN 2025	102	.00	.00	.00	0.	*	2 JAN 0855	252	.00	.00	.00	0.
1 JAN 2030	103	.00	.00	.00	0.	*	2 JAN 0900	253	.00	.00	.00	0.
1 JAN 2035	104	.00	.00	.00	0.	*	2 JAN 0905	254	.00	.00	.00	0.
1 JAN 2040	105	.00	.00	.00	0.	*	2 JAN 0910	255	.00	.00	.00	0.
1 JAN 2045	106	.00	.00	.00	0.	*	2 JAN 0915	256	.00	.00	.00	0.
1 JAN 2050	107	.00	.00	.00	0.	*	2 JAN 0920	257	.00	.00	.00	0.
1 JAN 2055	108	.00	.00	.00	0.	*	2 JAN 0925	258	.00	.00	.00	0.
1 JAN 2100	109	.00	.00	.00	0.	*	2 JAN 0930	259	.00	.00	.00	0.
1 JAN 2105	110	.00	.00	.00	0.	*	2 JAN 0935	260	.00	.00	.00	0.
1 JAN 2110	111	.00	.00	.00	0.	*	2 JAN 0940	261	.00	.00	.00	0.
1 JAN 2115	112	.00	.00	.00	0.	*	2 JAN 0945	262	.00	.00	.00	0.
1 JAN 2120	113	.01	.01	.00	0.	*	2 JAN 0950	263	.00	.00	.00	0.
1 JAN 2125	114	.01	.01	.00	0.	*	2 JAN 0955	264	.00	.00	.00	0.
1 JAN 2130	115	.01	.01	.00	0.	*	2 JAN 1000	265	.00	.00	.00	0.
1 JAN 2135	116	.01	.01	.00	0.	*	2 JAN 1005	266	.00	.00	.00	0.
1 JAN 2140	117	.01	.01	.00	0.	*	2 JAN 1010	267	.00	.00	.00	0.
1 JAN 2145	118	.01	.01	.00	0.	*	2 JAN 1015	268	.00	.00	.00	0.
1 JAN 2150	119	.01	.01	.00	0.	*	2 JAN 1020	269	.00	.00	.00	0.
1 JAN 2155	120	.01	.01	.00	0.	*	2 JAN 1025	270	.00	.00	.00	0.
1 JAN 2200	121	.01	.01	.00	0.	*	2 JAN 1030	271	.00	.00	.00	0.
1 JAN 2205	122	.01	.01	.00	0.	*	2 JAN 1035	272	.00	.00	.00	0.
1 JAN 2210	123	.01	.01	.00	0.	*	2 JAN 1040	273	.00	.00	.00	0.
1 JAN 2215	124	.01	.01	.00	0.	*	2 JAN 1045	274	.00	.00	.00	0.
1 JAN 2220	125	.01	.01	.00	0.	*	2 JAN 1050	275	.00	.00	.00	0.
1 JAN 2225	126	.01	.01	.00	0.	*	2 JAN 1055	276	.00	.00	.00	0.
1 JAN 2230	127	.01	.01	.00	0.	*	2 JAN 1100	277	.00	.00	.00	0.
1 JAN 2235	128	.01	.01	.00	0.	*	2 JAN 1105	278	.00	.00	.00	0.

1 JAN 2240	129	.01	.01	.00	0.	*	2 JAN 1110	279	.00	.00	.00	0.
1 JAN 2245	130	.01	.01	.00	0.	*	2 JAN 1115	280	.00	.00	.00	0.
1 JAN 2250	131	.01	.01	.00	0.	*	2 JAN 1120	281	.00	.00	.00	0.
1 JAN 2255	132	.01	.01	.00	0.	*	2 JAN 1125	282	.00	.00	.00	0.
1 JAN 2300	133	.01	.01	.00	0.	*	2 JAN 1130	283	.00	.00	.00	0.
1 JAN 2305	134	.01	.01	.00	0.	*	2 JAN 1135	284	.00	.00	.00	0.
1 JAN 2310	135	.01	.01	.00	0.	*	2 JAN 1140	285	.00	.00	.00	0.
1 JAN 2315	136	.01	.01	.00	0.	*	2 JAN 1145	286	.00	.00	.00	0.
1 JAN 2320	137	.01	.01	.00	0.	*	2 JAN 1150	287	.00	.00	.00	0.
1 JAN 2325	138	.01	.01	.00	0.	*	2 JAN 1155	288	.00	.00	.00	0.
1 JAN 2330	139	.01	.01	.00	0.	*	2 JAN 1200	289	.00	.00	.00	0.
1 JAN 2335	140	.01	.01	.00	0.	*	2 JAN 1205	290	.00	.00	.00	0.
1 JAN 2340	141	.01	.01	.00	0.	*	2 JAN 1210	291	.00	.00	.00	0.
1 JAN 2345	142	.01	.01	.00	0.	*	2 JAN 1215	292	.00	.00	.00	0.
1 JAN 2350	143	.01	.01	.00	0.	*	2 JAN 1220	293	.00	.00	.00	0.
1 JAN 2355	144	.01	.01	.00	0.	*	2 JAN 1225	294	.00	.00	.00	0.
2 JAN 0000	145	.01	.01	.00	0.	*	2 JAN 1230	295	.00	.00	.00	0.
2 JAN 0005	146	.01	.01	.00	0.	*	2 JAN 1235	296	.00	.00	.00	0.
2 JAN 0010	147	.01	.01	.00	0.	*	2 JAN 1240	297	.00	.00	.00	0.
2 JAN 0015	148	.01	.01	.00	0.	*	2 JAN 1245	298	.00	.00	.00	0.
2 JAN 0020	149	.01	.01	.00	0.	*	2 JAN 1250	299	.00	.00	.00	0.
2 JAN 0025	150	.01	.01	.00	0.	*	2 JAN 1255	300	.00	.00	.00	0.
						*						

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TOTAL RAINFALL = 2.49, TOTAL LOSS = 2.23, TOTAL EXCESS = .27

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
5.	16.00	(CFS)	1.	0.	0.	0.
		(INCHES)	.236	.268	.268	.268
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = .02 SQ MI

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          *            *
95 KK     *       4_3  *
          *            *
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COMBINE BASIN 3 WITH BASIN 4

97 HC HYDROGRAPH COMBINATION

ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 4_3

SUM OF 2 HYDROGRAPHS

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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	JAN	1200	1	0.	*	1	JAN	1815	76	0.	*	2	JAN	0030	151	0.	*	2	JAN	0645	226	1.
1	JAN	1205	2	0.	*	1	JAN	1820	77	0.	*	2	JAN	0035	152	0.	*	2	JAN	0650	227	1.
1	JAN	1210	3	0.	*	1	JAN	1825	78	0.	*	2	JAN	0040	153	0.	*	2	JAN	0655	228	1.
1	JAN	1215	4	0.	*	1	JAN	1830	79	0.	*	2	JAN	0045	154	0.	*	2	JAN	0700	229	1.
1	JAN	1220	5	0.	*	1	JAN	1835	80	0.	*	2	JAN	0050	155	0.	*	2	JAN	0705	230	1.
1	JAN	1225	6	0.	*	1	JAN	1840	81	0.	*	2	JAN	0055	156	0.	*	2	JAN	0710	231	1.
1	JAN	1230	7	0.	*	1	JAN	1845	82	0.	*	2	JAN	0100	157	0.	*	2	JAN	0715	232	1.
1	JAN	1235	8	0.	*	1	JAN	1850	83	0.	*	2	JAN	0105	158	0.	*	2	JAN	0720	233	1.
1	JAN	1240	9	0.	*	1	JAN	1855	84	0.	*	2	JAN	0110	159	0.	*	2	JAN	0725	234	1.
1	JAN	1245	10	0.	*	1	JAN	1900	85	0.	*	2	JAN	0115	160	0.	*	2	JAN	0730	235	1.
1	JAN	1250	11	0.	*	1	JAN	1905	86	0.	*	2	JAN	0120	161	0.	*	2	JAN	0735	236	1.
1	JAN	1255	12	0.	*	1	JAN	1910	87	0.	*	2	JAN	0125	162	0.	*	2	JAN	0740	237	1.
1	JAN	1300	13	0.	*	1	JAN	1915	88	0.	*	2	JAN	0130	163	0.	*	2	JAN	0745	238	1.
1	JAN	1305	14	0.	*	1	JAN	1920	89	0.	*	2	JAN	0135	164	0.	*	2	JAN	0750	239	1.
1	JAN	1310	15	0.	*	1	JAN	1925	90	0.	*	2	JAN	0140	165	0.	*	2	JAN	0755	240	1.
1	JAN	1315	16	0.	*	1	JAN	1930	91	0.	*	2	JAN	0145	166	0.	*	2	JAN	0800	241	1.
1	JAN	1320	17	0.	*	1	JAN	1935	92	0.	*	2	JAN	0150	167	0.	*	2	JAN	0805	242	1.
1	JAN	1325	18	0.	*	1	JAN	1940	93	0.	*	2	JAN	0155	168	0.	*	2	JAN	0810	243	1.
1	JAN	1330	19	0.	*	1	JAN	1945	94	0.	*	2	JAN	0200	169	0.	*	2	JAN	0815	244	1.
1	JAN	1335	20	0.	*	1	JAN	1950	95	0.	*	2	JAN	0205	170	0.	*	2	JAN	0820	245	0.
1	JAN	1340	21	0.	*	1	JAN	1955	96	0.	*	2	JAN	0210	171	0.	*	2	JAN	0825	246	0.
1	JAN	1345	22	0.	*	1	JAN	2000	97	0.	*	2	JAN	0215	172	0.	*	2	JAN	0830	247	0.
1	JAN	1350	23	0.	*	1	JAN	2005	98	0.	*	2	JAN	0220	173	0.	*	2	JAN	0835	248	0.
1	JAN	1355	24	0.	*	1	JAN	2010	99	0.	*	2	JAN	0225	174	0.	*	2	JAN	0840	249	0.
1	JAN	1400	25	0.	*	1	JAN	2015	100	0.	*	2	JAN	0230	175	0.	*	2	JAN	0845	250	0.
1	JAN	1405	26	0.	*	1	JAN	2020	101	0.	*	2	JAN	0235	176	0.	*	2	JAN	0850	251	0.
1	JAN	1410	27	0.	*	1	JAN	2025	102	0.	*	2	JAN	0240	177	0.	*	2	JAN	0855	252	0.
1	JAN	1415	28	0.	*	1	JAN	2030	103	0.	*	2	JAN	0245	178	0.	*	2	JAN	0900	253	0.
1	JAN	1420	29	0.	*	1	JAN	2035	104	0.	*	2	JAN	0250	179	0.	*	2	JAN	0905	254	0.
1	JAN	1425	30	0.	*	1	JAN	2040	105	0.	*	2	JAN	0255	180	0.	*	2	JAN	0910	255	0.
1	JAN	1430	31	0.	*	1	JAN	2045	106	0.	*	2	JAN	0300	181	0.	*	2	JAN	0915	256	0.
1	JAN	1435	32	0.	*	1	JAN	2050	107	0.	*	2	JAN	0305	182	0.	*	2	JAN	0920	257	0.
1	JAN	1440	33	0.	*	1	JAN	2055	108	0.	*	2	JAN	0310	183	0.	*	2	JAN	0925	258	0.
1	JAN	1445	34	0.	*	1	JAN	2100	109	0.	*	2	JAN	0315	184	0.	*	2	JAN	0930	259	0.
1	JAN	1450	35	0.	*	1	JAN	2105	110	0.	*	2	JAN	0320	185	0.	*	2	JAN	0935	260	0.
1	JAN	1455	36	0.	*	1	JAN	2110	111	0.	*	2	JAN	0325	186	0.	*	2	JAN	0940	261	0.
1	JAN	1500	37	0.	*	1	JAN	2115	112	0.	*	2	JAN	0330	187	0.	*	2	JAN	0945	262	0.
1	JAN	1505	38	0.	*	1	JAN	2120	113	0.	*	2	JAN	0335	188	1.	*	2	JAN	0950	263	0.
1	JAN	1510	39	0.	*	1	JAN	2125	114	0.	*	2	JAN	0340	189	1.	*	2	JAN	0955	264	0.
1	JAN	1515	40	0.	*	1	JAN	2130	115	0.	*	2	JAN	0345	190	1.	*	2	JAN	1000	265	0.
1	JAN	1520	41	0.	*	1	JAN	2135	116	0.	*	2	JAN	0350	191	2.	*	2	JAN	1005	266	0.
1	JAN	1525	42	0.	*	1	JAN	2140	117	0.	*	2	JAN	0355	192	3.	*	2	JAN	1010	267	0.
1	JAN	1530	43	0.	*	1	JAN	2145	118	0.	*	2	JAN	0400	193	11.	*	2	JAN	1015	268	0.
1	JAN	1535	44	0.	*	1	JAN	2150	119	0.	*	2	JAN	0405	194	12.	*	2	JAN	1020	269	0.
1	JAN	1540	45	0.	*	1	JAN	2155	120	0.	*	2	JAN	0410	195	7.	*	2	JAN	1025	270	0.
1	JAN	1545	46	0.	*	1	JAN	2200	121	0.	*	2	JAN	0415	196	4.	*	2	JAN	1030	271	0.
1	JAN	1550	47	0.	*	1	JAN	2205	122	0.	*	2	JAN	0420	197	3.	*	2	JAN	1035	272	0.
1	JAN	1555	48	0.	*	1	JAN	2210	123	0.	*	2	JAN	0425	198	2.	*	2	JAN	1040	273	0.
1	JAN	1600	49	0.	*	1	JAN	2215	124	0.	*	2	JAN	0430	199	2.	*	2	JAN	1045	274	0.
1	JAN	1605	50	0.	*	1	JAN	2220	125	0.	*	2	JAN	0435	200	2.	*	2	JAN	1050	275	0.
1	JAN	1610	51	0.	*	1	JAN	2225	126	0.	*	2	JAN	0440	201	2.	*	2	JAN	1055	276	0.
1	JAN	1615	52	0.	*	1	JAN	2230	127	0.	*	2	JAN	0445	202	2.	*	2	JAN	1100	277	0.
1	JAN	1620	53	0.	*	1	JAN	2235	128	0.	*	2	JAN	0450	203	1.	*	2	JAN	1105	278	0.
1	JAN	1625	54	0.	*	1	JAN	2240	129	0.	*	2	JAN	0455	204	1.	*	2	JAN	1110	279	0.
1	JAN	1630	55	0.	*	1	JAN	2245	130	0.	*	2	JAN	0500	205	1.	*	2	JAN	1115	280	0.
1	JAN	1635	56	0.	*	1	JAN	2250	131	0.	*	2	JAN	0505	206	1.	*	2	JAN	1120	281	0.
1	JAN	1640	57	0.	*	1	JAN	2255	132	0.	*	2	JAN	0510	207	1.	*	2	JAN	1125	282	0.
1	JAN	1645	58	0.	*	1	JAN	2300	133	0.	*	2	JAN	0515	208	1.	*	2	JAN	1130	283	0.

1 JAN 1650	59	0.	*	1 JAN 2305	134	0.	*	2 JAN 0520	209	1.	*	2 JAN 1135	284	0.
1 JAN 1655	60	0.	*	1 JAN 2310	135	0.	*	2 JAN 0525	210	1.	*	2 JAN 1140	285	0.
1 JAN 1700	61	0.	*	1 JAN 2315	136	0.	*	2 JAN 0530	211	1.	*	2 JAN 1145	286	0.
1 JAN 1705	62	0.	*	1 JAN 2320	137	0.	*	2 JAN 0535	212	1.	*	2 JAN 1150	287	0.
1 JAN 1710	63	0.	*	1 JAN 2325	138	0.	*	2 JAN 0540	213	1.	*	2 JAN 1155	288	0.
1 JAN 1715	64	0.	*	1 JAN 2330	139	0.	*	2 JAN 0545	214	1.	*	2 JAN 1200	289	0.
1 JAN 1720	65	0.	*	1 JAN 2335	140	0.	*	2 JAN 0550	215	1.	*	2 JAN 1205	290	0.
1 JAN 1725	66	0.	*	1 JAN 2340	141	0.	*	2 JAN 0555	216	1.	*	2 JAN 1210	291	0.
1 JAN 1730	67	0.	*	1 JAN 2345	142	0.	*	2 JAN 0600	217	1.	*	2 JAN 1215	292	0.
1 JAN 1735	68	0.	*	1 JAN 2350	143	0.	*	2 JAN 0605	218	1.	*	2 JAN 1220	293	0.
1 JAN 1740	69	0.	*	1 JAN 2355	144	0.	*	2 JAN 0610	219	1.	*	2 JAN 1225	294	0.
1 JAN 1745	70	0.	*	2 JAN 0000	145	0.	*	2 JAN 0615	220	1.	*	2 JAN 1230	295	0.
1 JAN 1750	71	0.	*	2 JAN 0005	146	0.	*	2 JAN 0620	221	1.	*	2 JAN 1235	296	0.
1 JAN 1755	72	0.	*	2 JAN 0010	147	0.	*	2 JAN 0625	222	1.	*	2 JAN 1240	297	0.
1 JAN 1800	73	0.	*	2 JAN 0015	148	0.	*	2 JAN 0630	223	1.	*	2 JAN 1245	298	0.
1 JAN 1805	74	0.	*	2 JAN 0020	149	0.	*	2 JAN 0635	224	1.	*	2 JAN 1250	299	0.
1 JAN 1810	75	0.	*	2 JAN 0025	150	0.	*	2 JAN 0640	225	1.	*	2 JAN 1255	300	0.
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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
12.	16.08	(CFS)	1.	0.	0.	0.
		(INCHES)	.299	.343	.343	.343
		(AC-FT)	1.	1.	1.	1.

CUMULATIVE AREA = .04 SQ MI

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          *            *
 98 KK    *   DET4_3   *
          *            *
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DETAIN BASINS 3 AND 4 IN THE SUMP AT CADMUS AND BASIL

HYDROGRAPH ROUTING DATA

```
100 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

101 SA            AREA          .0        .7       2.5       4.6       4.6

102 SQ        DISCHARGE         0.        0.        0.        0.       20.

103 SE        ELEVATION      55.00     56.00     58.00     60.00     60.10

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COMPUTED STORAGE-ELEVATION DATA

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          STORAGE        .00       .22      3.19     10.18     10.64
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ELEVATION 55.00 56.00 58.00 60.00 60.10

HYDROGRAPH AT STATION DET4_3

DA MON HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA MON HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA MON HRMN	ORD	OUTFLOW	STORAGE	STAGE
1 JAN 1200	1	0.	3.2	58.0	1 JAN 2020	101	0.	3.2	58.0	2 JAN 0440	201	0.	3.6	58.1
1 JAN 1205	2	0.	3.2	58.0	1 JAN 2025	102	0.	3.2	58.0	2 JAN 0445	202	0.	3.6	58.1
1 JAN 1210	3	0.	3.2	58.0	1 JAN 2030	103	0.	3.2	58.0	2 JAN 0450	203	0.	3.6	58.1
1 JAN 1215	4	0.	3.2	58.0	1 JAN 2035	104	0.	3.2	58.0	2 JAN 0455	204	0.	3.6	58.1
1 JAN 1220	5	0.	3.2	58.0	1 JAN 2040	105	0.	3.2	58.0	2 JAN 0500	205	0.	3.6	58.1
1 JAN 1225	6	0.	3.2	58.0	1 JAN 2045	106	0.	3.2	58.0	2 JAN 0505	206	0.	3.6	58.1
1 JAN 1230	7	0.	3.2	58.0	1 JAN 2050	107	0.	3.2	58.0	2 JAN 0510	207	0.	3.6	58.1
1 JAN 1235	8	0.	3.2	58.0	1 JAN 2055	108	0.	3.2	58.0	2 JAN 0515	208	0.	3.6	58.1
1 JAN 1240	9	0.	3.2	58.0	1 JAN 2100	109	0.	3.2	58.0	2 JAN 0520	209	0.	3.6	58.1
1 JAN 1245	10	0.	3.2	58.0	1 JAN 2105	110	0.	3.2	58.0	2 JAN 0525	210	0.	3.6	58.1
1 JAN 1250	11	0.	3.2	58.0	1 JAN 2110	111	0.	3.2	58.0	2 JAN 0530	211	0.	3.6	58.1
1 JAN 1255	12	0.	3.2	58.0	1 JAN 2115	112	0.	3.2	58.0	2 JAN 0535	212	0.	3.6	58.1
1 JAN 1300	13	0.	3.2	58.0	1 JAN 2120	113	0.	3.2	58.0	2 JAN 0540	213	0.	3.7	58.1
1 JAN 1305	14	0.	3.2	58.0	1 JAN 2125	114	0.	3.2	58.0	2 JAN 0545	214	0.	3.7	58.1
1 JAN 1310	15	0.	3.2	58.0	1 JAN 2130	115	0.	3.2	58.0	2 JAN 0550	215	0.	3.7	58.1
1 JAN 1315	16	0.	3.2	58.0	1 JAN 2135	116	0.	3.2	58.0	2 JAN 0555	216	0.	3.7	58.1
1 JAN 1320	17	0.	3.2	58.0	1 JAN 2140	117	0.	3.2	58.0	2 JAN 0600	217	0.	3.7	58.1
1 JAN 1325	18	0.	3.2	58.0	1 JAN 2145	118	0.	3.2	58.0	2 JAN 0605	218	0.	3.7	58.1
1 JAN 1330	19	0.	3.2	58.0	1 JAN 2150	119	0.	3.2	58.0	2 JAN 0610	219	0.	3.7	58.1
1 JAN 1335	20	0.	3.2	58.0	1 JAN 2155	120	0.	3.2	58.0	2 JAN 0615	220	0.	3.7	58.1
1 JAN 1340	21	0.	3.2	58.0	1 JAN 2200	121	0.	3.2	58.0	2 JAN 0620	221	0.	3.7	58.1
1 JAN 1345	22	0.	3.2	58.0	1 JAN 2205	122	0.	3.2	58.0	2 JAN 0625	222	0.	3.7	58.1
1 JAN 1350	23	0.	3.2	58.0	1 JAN 2210	123	0.	3.2	58.0	2 JAN 0630	223	0.	3.7	58.1
1 JAN 1355	24	0.	3.2	58.0	1 JAN 2215	124	0.	3.2	58.0	2 JAN 0635	224	0.	3.7	58.1
1 JAN 1400	25	0.	3.2	58.0	1 JAN 2220	125	0.	3.2	58.0	2 JAN 0640	225	0.	3.7	58.2
1 JAN 1405	26	0.	3.2	58.0	1 JAN 2225	126	0.	3.2	58.0	2 JAN 0645	226	0.	3.7	58.2
1 JAN 1410	27	0.	3.2	58.0	1 JAN 2230	127	0.	3.2	58.0	2 JAN 0650	227	0.	3.7	58.2
1 JAN 1415	28	0.	3.2	58.0	1 JAN 2235	128	0.	3.2	58.0	2 JAN 0655	228	0.	3.7	58.2
1 JAN 1420	29	0.	3.2	58.0	1 JAN 2240	129	0.	3.2	58.0	2 JAN 0700	229	0.	3.7	58.2
1 JAN 1425	30	0.	3.2	58.0	1 JAN 2245	130	0.	3.2	58.0	2 JAN 0705	230	0.	3.7	58.2
1 JAN 1430	31	0.	3.2	58.0	1 JAN 2250	131	0.	3.2	58.0	2 JAN 0710	231	0.	3.7	58.2
1 JAN 1435	32	0.	3.2	58.0	1 JAN 2255	132	0.	3.2	58.0	2 JAN 0715	232	0.	3.8	58.2
1 JAN 1440	33	0.	3.2	58.0	1 JAN 2300	133	0.	3.2	58.0	2 JAN 0720	233	0.	3.8	58.2
1 JAN 1445	34	0.	3.2	58.0	1 JAN 2305	134	0.	3.2	58.0	2 JAN 0725	234	0.	3.8	58.2
1 JAN 1450	35	0.	3.2	58.0	1 JAN 2310	135	0.	3.2	58.0	2 JAN 0730	235	0.	3.8	58.2
1 JAN 1455	36	0.	3.2	58.0	1 JAN 2315	136	0.	3.2	58.0	2 JAN 0735	236	0.	3.8	58.2
1 JAN 1500	37	0.	3.2	58.0	1 JAN 2320	137	0.	3.2	58.0	2 JAN 0740	237	0.	3.8	58.2
1 JAN 1505	38	0.	3.2	58.0	1 JAN 2325	138	0.	3.2	58.0	2 JAN 0745	238	0.	3.8	58.2
1 JAN 1510	39	0.	3.2	58.0	1 JAN 2330	139	0.	3.2	58.0	2 JAN 0750	239	0.	3.8	58.2
1 JAN 1515	40	0.	3.2	58.0	1 JAN 2335	140	0.	3.2	58.0	2 JAN 0755	240	0.	3.8	58.2
1 JAN 1520	41	0.	3.2	58.0	1 JAN 2340	141	0.	3.2	58.0	2 JAN 0800	241	0.	3.8	58.2
1 JAN 1525	42	0.	3.2	58.0	1 JAN 2345	142	0.	3.2	58.0	2 JAN 0805	242	0.	3.8	58.2
1 JAN 1530	43	0.	3.2	58.0	1 JAN 2350	143	0.	3.2	58.0	2 JAN 0810	243	0.	3.8	58.2
1 JAN 1535	44	0.	3.2	58.0	1 JAN 2355	144	0.	3.2	58.0	2 JAN 0815	244	0.	3.8	58.2
1 JAN 1540	45	0.	3.2	58.0	2 JAN 0000	145	0.	3.2	58.0	2 JAN 0820	245	0.	3.8	58.2
1 JAN 1545	46	0.	3.2	58.0	2 JAN 0005	146	0.	3.2	58.0	2 JAN 0825	246	0.	3.8	58.2
1 JAN 1550	47	0.	3.2	58.0	2 JAN 0010	147	0.	3.2	58.0	2 JAN 0830	247	0.	3.8	58.2
1 JAN 1555	48	0.	3.2	58.0	2 JAN 0015	148	0.	3.2	58.0	2 JAN 0835	248	0.	3.8	58.2
1 JAN 1600	49	0.	3.2	58.0	2 JAN 0020	149	0.	3.2	58.0	2 JAN 0840	249	0.	3.8	58.2
1 JAN 1605	50	0.	3.2	58.0	2 JAN 0025	150	0.	3.2	58.0	2 JAN 0845	250	0.	3.8	58.2

1	JAN	1610	51	0.	3.2	58.0	*	2	JAN	0030	151	0.	3.2	58.0	*	2	JAN	0850	251	0.	3.8	58.2
1	JAN	1615	52	0.	3.2	58.0	*	2	JAN	0035	152	0.	3.2	58.0	*	2	JAN	0855	252	0.	3.8	58.2
1	JAN	1620	53	0.	3.2	58.0	*	2	JAN	0040	153	0.	3.2	58.0	*	2	JAN	0900	253	0.	3.8	58.2
1	JAN	1625	54	0.	3.2	58.0	*	2	JAN	0045	154	0.	3.2	58.0	*	2	JAN	0905	254	0.	3.8	58.2
1	JAN	1630	55	0.	3.2	58.0	*	2	JAN	0050	155	0.	3.2	58.0	*	2	JAN	0910	255	0.	3.8	58.2
1	JAN	1635	56	0.	3.2	58.0	*	2	JAN	0055	156	0.	3.2	58.0	*	2	JAN	0915	256	0.	3.8	58.2
1	JAN	1640	57	0.	3.2	58.0	*	2	JAN	0100	157	0.	3.2	58.0	*	2	JAN	0920	257	0.	3.8	58.2
1	JAN	1645	58	0.	3.2	58.0	*	2	JAN	0105	158	0.	3.2	58.0	*	2	JAN	0925	258	0.	3.8	58.2
1	JAN	1650	59	0.	3.2	58.0	*	2	JAN	0110	159	0.	3.2	58.0	*	2	JAN	0930	259	0.	3.8	58.2
1	JAN	1655	60	0.	3.2	58.0	*	2	JAN	0115	160	0.	3.2	58.0	*	2	JAN	0935	260	0.	3.8	58.2
1	JAN	1700	61	0.	3.2	58.0	*	2	JAN	0120	161	0.	3.2	58.0	*	2	JAN	0940	261	0.	3.8	58.2
1	JAN	1705	62	0.	3.2	58.0	*	2	JAN	0125	162	0.	3.2	58.0	*	2	JAN	0945	262	0.	3.9	58.2
1	JAN	1710	63	0.	3.2	58.0	*	2	JAN	0130	163	0.	3.2	58.0	*	2	JAN	0950	263	0.	3.9	58.2
1	JAN	1715	64	0.	3.2	58.0	*	2	JAN	0135	164	0.	3.2	58.0	*	2	JAN	0955	264	0.	3.9	58.2
1	JAN	1720	65	0.	3.2	58.0	*	2	JAN	0140	165	0.	3.2	58.0	*	2	JAN	1000	265	0.	3.9	58.2
1	JAN	1725	66	0.	3.2	58.0	*	2	JAN	0145	166	0.	3.2	58.0	*	2	JAN	1005	266	0.	3.9	58.2
1	JAN	1730	67	0.	3.2	58.0	*	2	JAN	0150	167	0.	3.2	58.0	*	2	JAN	1010	267	0.	3.9	58.2
1	JAN	1735	68	0.	3.2	58.0	*	2	JAN	0155	168	0.	3.2	58.0	*	2	JAN	1015	268	0.	3.9	58.2
1	JAN	1740	69	0.	3.2	58.0	*	2	JAN	0200	169	0.	3.2	58.0	*	2	JAN	1020	269	0.	3.9	58.2
1	JAN	1745	70	0.	3.2	58.0	*	2	JAN	0205	170	0.	3.2	58.0	*	2	JAN	1025	270	0.	3.9	58.2
1	JAN	1750	71	0.	3.2	58.0	*	2	JAN	0210	171	0.	3.2	58.0	*	2	JAN	1030	271	0.	3.9	58.2
1	JAN	1755	72	0.	3.2	58.0	*	2	JAN	0215	172	0.	3.2	58.0	*	2	JAN	1035	272	0.	3.9	58.2
1	JAN	1800	73	0.	3.2	58.0	*	2	JAN	0220	173	0.	3.2	58.0	*	2	JAN	1040	273	0.	3.9	58.2
1	JAN	1805	74	0.	3.2	58.0	*	2	JAN	0225	174	0.	3.2	58.0	*	2	JAN	1045	274	0.	3.9	58.2
1	JAN	1810	75	0.	3.2	58.0	*	2	JAN	0230	175	0.	3.2	58.0	*	2	JAN	1050	275	0.	3.9	58.2
1	JAN	1815	76	0.	3.2	58.0	*	2	JAN	0235	176	0.	3.2	58.0	*	2	JAN	1055	276	0.	3.9	58.2
1	JAN	1820	77	0.	3.2	58.0	*	2	JAN	0240	177	0.	3.2	58.0	*	2	JAN	1100	277	0.	3.9	58.2
1	JAN	1825	78	0.	3.2	58.0	*	2	JAN	0245	178	0.	3.2	58.0	*	2	JAN	1105	278	0.	3.9	58.2
1	JAN	1830	79	0.	3.2	58.0	*	2	JAN	0250	179	0.	3.2	58.0	*	2	JAN	1110	279	0.	3.9	58.2
1	JAN	1835	80	0.	3.2	58.0	*	2	JAN	0255	180	0.	3.2	58.0	*	2	JAN	1115	280	0.	3.9	58.2
1	JAN	1840	81	0.	3.2	58.0	*	2	JAN	0300	181	0.	3.2	58.0	*	2	JAN	1120	281	0.	3.9	58.2
1	JAN	1845	82	0.	3.2	58.0	*	2	JAN	0305	182	0.	3.2	58.0	*	2	JAN	1125	282	0.	3.9	58.2
1	JAN	1850	83	0.	3.2	58.0	*	2	JAN	0310	183	0.	3.2	58.0	*	2	JAN	1130	283	0.	3.9	58.2
1	JAN	1855	84	0.	3.2	58.0	*	2	JAN	0315	184	0.	3.2	58.0	*	2	JAN	1135	284	0.	3.9	58.2
1	JAN	1900	85	0.	3.2	58.0	*	2	JAN	0320	185	0.	3.2	58.0	*	2	JAN	1140	285	0.	3.9	58.2
1	JAN	1905	86	0.	3.2	58.0	*	2	JAN	0325	186	0.	3.2	58.0	*	2	JAN	1145	286	0.	3.9	58.2
1	JAN	1910	87	0.	3.2	58.0	*	2	JAN	0330	187	0.	3.2	58.0	*	2	JAN	1150	287	0.	3.9	58.2
1	JAN	1915	88	0.	3.2	58.0	*	2	JAN	0335	188	0.	3.2	58.0	*	2	JAN	1155	288	0.	3.9	58.2
1	JAN	1920	89	0.	3.2	58.0	*	2	JAN	0340	189	0.	3.2	58.0	*	2	JAN	1200	289	0.	3.9	58.2
1	JAN	1925	90	0.	3.2	58.0	*	2	JAN	0345	190	0.	3.2	58.0	*	2	JAN	1205	290	0.	3.9	58.2
1	JAN	1930	91	0.	3.2	58.0	*	2	JAN	0350	191	0.	3.2	58.0	*	2	JAN	1210	291	0.	3.9	58.2
1	JAN	1935	92	0.	3.2	58.0	*	2	JAN	0355	192	0.	3.2	58.0	*	2	JAN	1215	292	0.	3.9	58.2
1	JAN	1940	93	0.	3.2	58.0	*	2	JAN	0400	193	0.	3.3	58.0	*	2	JAN	1220	293	0.	3.9	58.2
1	JAN	1945	94	0.	3.2	58.0	*	2	JAN	0405	194	0.	3.4	58.1	*	2	JAN	1225	294	0.	3.9	58.2
1	JAN	1950	95	0.	3.2	58.0	*	2	JAN	0410	195	0.	3.4	58.1	*	2	JAN	1230	295	0.	3.9	58.2
1	JAN	1955	96	0.	3.2	58.0	*	2	JAN	0415	196	0.	3.5	58.1	*	2	JAN	1235	296	0.	3.9	58.2
1	JAN	2000	97	0.	3.2	58.0	*	2	JAN	0420	197	0.	3.5	58.1	*	2	JAN	1240	297	0.	3.9	58.2
1	JAN	2005	98	0.	3.2	58.0	*	2	JAN	0425	198	0.	3.5	58.1	*	2	JAN	1245	298	0.	3.9	58.2
1	JAN	2010	99	0.	3.2	58.0	*	2	JAN	0430	199	0.	3.5	58.1	*	2	JAN	1250	299	0.	3.9	58.2
1	JAN	2015	100	0.	3.2	58.0	*	2	JAN	0435	200	0.	3.5	58.1	*	2	JAN	1255	300	0.	3.9	58.2
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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
0.	.00	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE

(AC-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
4.	24.08	4.	3.	3.	3.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
58.21	24.42	58.19	58.06	58.06	58.06

CUMULATIVE AREA = .04 SQ MI

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          *            *
104 KK    *          6 *
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SUBBASIN RUNOFF DATA

105 BA SUBBASIN CHARACTERISTICS

TAREA .06 SUBBASIN AREA

PRECIPITATION DATA

27 PB STORM 2.49 BASIN TOTAL PRECIPITATION

27 PI INCREMENTAL PRECIPITATION PATTERN

.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.02	.02	.02	.02	.02	.02	.02
.02	.02	.02	.03	.03	.03	.03	.04	.05	.07
.10	.35	.06	.04	.03	.02	.02	.02	.02	.02
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00			

106 LS SCS LOSS RATE

STRTL	.74	INITIAL ABSTRACTION
CRVNBR	73.00	CURVE NUMBER
RTIMP	.00	PERCENT IMPERVIOUS AREA

107 UD SCS DIMENSIONLESS UNITGRAPH

TLAG	.32	LAG

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UNIT HYDROGRAPH
21 END-OF-PERIOD ORDINATES

10.	32.	63.	79.	77.	64.	45.	30.	21.	14.
10.	7.	5.	3.	2.	2.	1.	1.	1.	0.
0.									

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HYDROGRAPH AT STATION 6

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DA MON HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	DA MON HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1 JAN 1200	1	.00	.00	.00	0.	2 JAN 0030	151	.01	.01	.00	0.
1 JAN 1205	2	.00	.00	.00	0.	2 JAN 0035	152	.01	.01	.00	0.
1 JAN 1210	3	.00	.00	.00	0.	2 JAN 0040	153	.01	.01	.00	0.
1 JAN 1215	4	.00	.00	.00	0.	2 JAN 0045	154	.01	.01	.00	0.
1 JAN 1220	5	.00	.00	.00	0.	2 JAN 0050	155	.01	.01	.00	0.
1 JAN 1225	6	.00	.00	.00	0.	2 JAN 0055	156	.01	.01	.00	0.
1 JAN 1230	7	.00	.00	.00	0.	2 JAN 0100	157	.01	.01	.00	0.
1 JAN 1235	8	.00	.00	.00	0.	2 JAN 0105	158	.01	.01	.00	0.
1 JAN 1240	9	.00	.00	.00	0.	2 JAN 0110	159	.01	.01	.00	0.
1 JAN 1245	10	.00	.00	.00	0.	2 JAN 0115	160	.01	.01	.00	0.
1 JAN 1250	11	.00	.00	.00	0.	2 JAN 0120	161	.01	.01	.00	0.
1 JAN 1255	12	.00	.00	.00	0.	2 JAN 0125	162	.01	.01	.00	0.
1 JAN 1300	13	.00	.00	.00	0.	2 JAN 0130	163	.01	.01	.00	0.
1 JAN 1305	14	.00	.00	.00	0.	2 JAN 0135	164	.01	.01	.00	0.
1 JAN 1310	15	.00	.00	.00	0.	2 JAN 0140	165	.01	.01	.00	0.
1 JAN 1315	16	.00	.00	.00	0.	2 JAN 0145	166	.01	.01	.00	0.
1 JAN 1320	17	.00	.00	.00	0.	2 JAN 0150	167	.01	.01	.00	0.
1 JAN 1325	18	.00	.00	.00	0.	2 JAN 0155	168	.01	.01	.00	0.
1 JAN 1330	19	.00	.00	.00	0.	2 JAN 0200	169	.01	.01	.00	0.
1 JAN 1335	20	.00	.00	.00	0.	2 JAN 0205	170	.01	.01	.00	0.
1 JAN 1340	21	.00	.00	.00	0.	2 JAN 0210	171	.01	.01	.00	0.
1 JAN 1345	22	.00	.00	.00	0.	2 JAN 0215	172	.01	.01	.00	0.
1 JAN 1350	23	.00	.00	.00	0.	2 JAN 0220	173	.01	.01	.00	0.
1 JAN 1355	24	.00	.00	.00	0.	2 JAN 0225	174	.01	.01	.00	0.
1 JAN 1400	25	.00	.00	.00	0.	2 JAN 0230	175	.02	.01	.00	0.
1 JAN 1405	26	.00	.00	.00	0.	2 JAN 0235	176	.02	.01	.00	0.
1 JAN 1410	27	.00	.00	.00	0.	2 JAN 0240	177	.02	.01	.00	0.
1 JAN 1415	28	.00	.00	.00	0.	2 JAN 0245	178	.02	.01	.00	1.
1 JAN 1420	29	.00	.00	.00	0.	2 JAN 0250	179	.02	.02	.00	1.
1 JAN 1425	30	.00	.00	.00	0.	2 JAN 0255	180	.02	.02	.00	1.
1 JAN 1430	31	.00	.00	.00	0.	2 JAN 0300	181	.02	.02	.00	1.
1 JAN 1435	32	.00	.00	.00	0.	2 JAN 0305	182	.02	.02	.00	1.
1 JAN 1440	33	.00	.00	.00	0.	2 JAN 0310	183	.02	.02	.00	1.
1 JAN 1445	34	.00	.00	.00	0.	2 JAN 0315	184	.02	.02	.00	1.
1 JAN 1450	35	.00	.00	.00	0.	2 JAN 0320	185	.03	.02	.00	1.

1 JAN 1455	36	.00	.00	.00	0.	*	2 JAN 0325	186	.03	.02	.01	1.
1 JAN 1500	37	.00	.00	.00	0.	*	2 JAN 0330	187	.03	.03	.01	2.
1 JAN 1505	38	.00	.00	.00	0.	*	2 JAN 0335	188	.03	.03	.01	2.
1 JAN 1510	39	.00	.00	.00	0.	*	2 JAN 0340	189	.04	.03	.01	2.
1 JAN 1515	40	.00	.00	.00	0.	*	2 JAN 0345	190	.05	.04	.01	2.
1 JAN 1520	41	.00	.00	.00	0.	*	2 JAN 0350	191	.07	.05	.02	3.
1 JAN 1525	42	.00	.00	.00	0.	*	2 JAN 0355	192	.10	.07	.03	4.
1 JAN 1530	43	.00	.00	.00	0.	*	2 JAN 0400	193	.35	.23	.12	6.
1 JAN 1535	44	.00	.00	.00	0.	*	2 JAN 0405	194	.06	.03	.02	10.
1 JAN 1540	45	.00	.00	.00	0.	*	2 JAN 0410	195	.04	.02	.02	14.
1 JAN 1545	46	.00	.00	.00	0.	*	2 JAN 0415	196	.03	.02	.01	16.
1 JAN 1550	47	.00	.00	.00	0.	*	2 JAN 0420	197	.02	.01	.01	16.
1 JAN 1555	48	.00	.00	.00	0.	*	2 JAN 0425	198	.02	.01	.01	14.
1 JAN 1600	49	.00	.00	.00	0.	*	2 JAN 0430	199	.02	.01	.01	12.
1 JAN 1605	50	.00	.00	.00	0.	*	2 JAN 0435	200	.02	.01	.01	9.
1 JAN 1610	51	.00	.00	.00	0.	*	2 JAN 0440	201	.02	.01	.01	8.
1 JAN 1615	52	.00	.00	.00	0.	*	2 JAN 0445	202	.01	.01	.01	7.
1 JAN 1620	53	.00	.00	.00	0.	*	2 JAN 0450	203	.01	.01	.01	6.
1 JAN 1625	54	.00	.00	.00	0.	*	2 JAN 0455	204	.01	.01	.01	5.
1 JAN 1630	55	.00	.00	.00	0.	*	2 JAN 0500	205	.01	.01	.01	4.
1 JAN 1635	56	.00	.00	.00	0.	*	2 JAN 0505	206	.01	.01	.01	4.
1 JAN 1640	57	.00	.00	.00	0.	*	2 JAN 0510	207	.01	.01	.01	3.
1 JAN 1645	58	.00	.00	.00	0.	*	2 JAN 0515	208	.01	.01	.00	3.
1 JAN 1650	59	.00	.00	.00	0.	*	2 JAN 0520	209	.01	.01	.00	3.
1 JAN 1655	60	.00	.00	.00	0.	*	2 JAN 0525	210	.01	.01	.00	3.
1 JAN 1700	61	.00	.00	.00	0.	*	2 JAN 0530	211	.01	.00	.00	3.
1 JAN 1705	62	.00	.00	.00	0.	*	2 JAN 0535	212	.01	.00	.00	2.
1 JAN 1710	63	.00	.00	.00	0.	*	2 JAN 0540	213	.01	.00	.00	2.
1 JAN 1715	64	.00	.00	.00	0.	*	2 JAN 0545	214	.01	.00	.00	2.
1 JAN 1720	65	.00	.00	.00	0.	*	2 JAN 0550	215	.01	.00	.00	2.
1 JAN 1725	66	.00	.00	.00	0.	*	2 JAN 0555	216	.01	.00	.00	2.
1 JAN 1730	67	.00	.00	.00	0.	*	2 JAN 0600	217	.01	.00	.00	2.
1 JAN 1735	68	.00	.00	.00	0.	*	2 JAN 0605	218	.01	.00	.00	2.
1 JAN 1740	69	.00	.00	.00	0.	*	2 JAN 0610	219	.01	.00	.00	2.
1 JAN 1745	70	.00	.00	.00	0.	*	2 JAN 0615	220	.01	.00	.00	2.
1 JAN 1750	71	.00	.00	.00	0.	*	2 JAN 0620	221	.01	.00	.00	2.
1 JAN 1755	72	.00	.00	.00	0.	*	2 JAN 0625	222	.01	.00	.00	2.
1 JAN 1800	73	.00	.00	.00	0.	*	2 JAN 0630	223	.01	.00	.00	2.
1 JAN 1805	74	.00	.00	.00	0.	*	2 JAN 0635	224	.01	.00	.00	2.
1 JAN 1810	75	.00	.00	.00	0.	*	2 JAN 0640	225	.01	.00	.00	2.
1 JAN 1815	76	.00	.00	.00	0.	*	2 JAN 0645	226	.01	.00	.00	1.
1 JAN 1820	77	.00	.00	.00	0.	*	2 JAN 0650	227	.01	.00	.00	1.
1 JAN 1825	78	.00	.00	.00	0.	*	2 JAN 0655	228	.01	.00	.00	1.
1 JAN 1830	79	.00	.00	.00	0.	*	2 JAN 0700	229	.01	.00	.00	1.
1 JAN 1835	80	.00	.00	.00	0.	*	2 JAN 0705	230	.01	.00	.00	1.
1 JAN 1840	81	.00	.00	.00	0.	*	2 JAN 0710	231	.01	.00	.00	1.
1 JAN 1845	82	.00	.00	.00	0.	*	2 JAN 0715	232	.01	.00	.00	1.
1 JAN 1850	83	.00	.00	.00	0.	*	2 JAN 0720	233	.01	.00	.00	1.
1 JAN 1855	84	.00	.00	.00	0.	*	2 JAN 0725	234	.00	.00	.00	1.
1 JAN 1900	85	.00	.00	.00	0.	*	2 JAN 0730	235	.00	.00	.00	1.
1 JAN 1905	86	.00	.00	.00	0.	*	2 JAN 0735	236	.00	.00	.00	1.
1 JAN 1910	87	.00	.00	.00	0.	*	2 JAN 0740	237	.00	.00	.00	1.
1 JAN 1915	88	.00	.00	.00	0.	*	2 JAN 0745	238	.00	.00	.00	1.
1 JAN 1920	89	.00	.00	.00	0.	*	2 JAN 0750	239	.00	.00	.00	1.
1 JAN 1925	90	.00	.00	.00	0.	*	2 JAN 0755	240	.00	.00	.00	1.
1 JAN 1930	91	.00	.00	.00	0.	*	2 JAN 0800	241	.00	.00	.00	1.
1 JAN 1935	92	.00	.00	.00	0.	*	2 JAN 0805	242	.00	.00	.00	1.
1 JAN 1940	93	.00	.00	.00	0.	*	2 JAN 0810	243	.00	.00	.00	1.
1 JAN 1945	94	.00	.00	.00	0.	*	2 JAN 0815	244	.00	.00	.00	1.
1 JAN 1950	95	.00	.00	.00	0.	*	2 JAN 0820	245	.00	.00	.00	1.

1 JAN 1955	96	.00	.00	.00	0.	*	2 JAN 0825	246	.00	.00	.00	1.
1 JAN 2000	97	.00	.00	.00	0.	*	2 JAN 0830	247	.00	.00	.00	1.
1 JAN 2005	98	.00	.00	.00	0.	*	2 JAN 0835	248	.00	.00	.00	1.
1 JAN 2010	99	.00	.00	.00	0.	*	2 JAN 0840	249	.00	.00	.00	1.
1 JAN 2015	100	.00	.00	.00	0.	*	2 JAN 0845	250	.00	.00	.00	1.
1 JAN 2020	101	.00	.00	.00	0.	*	2 JAN 0850	251	.00	.00	.00	1.
1 JAN 2025	102	.00	.00	.00	0.	*	2 JAN 0855	252	.00	.00	.00	1.
1 JAN 2030	103	.00	.00	.00	0.	*	2 JAN 0900	253	.00	.00	.00	1.
1 JAN 2035	104	.00	.00	.00	0.	*	2 JAN 0905	254	.00	.00	.00	1.
1 JAN 2040	105	.00	.00	.00	0.	*	2 JAN 0910	255	.00	.00	.00	1.
1 JAN 2045	106	.00	.00	.00	0.	*	2 JAN 0915	256	.00	.00	.00	1.
1 JAN 2050	107	.00	.00	.00	0.	*	2 JAN 0920	257	.00	.00	.00	1.
1 JAN 2055	108	.00	.00	.00	0.	*	2 JAN 0925	258	.00	.00	.00	1.
1 JAN 2100	109	.00	.00	.00	0.	*	2 JAN 0930	259	.00	.00	.00	1.
1 JAN 2105	110	.00	.00	.00	0.	*	2 JAN 0935	260	.00	.00	.00	1.
1 JAN 2110	111	.00	.00	.00	0.	*	2 JAN 0940	261	.00	.00	.00	1.
1 JAN 2115	112	.00	.00	.00	0.	*	2 JAN 0945	262	.00	.00	.00	1.
1 JAN 2120	113	.01	.01	.00	0.	*	2 JAN 0950	263	.00	.00	.00	1.
1 JAN 2125	114	.01	.01	.00	0.	*	2 JAN 0955	264	.00	.00	.00	1.
1 JAN 2130	115	.01	.01	.00	0.	*	2 JAN 1000	265	.00	.00	.00	1.
1 JAN 2135	116	.01	.01	.00	0.	*	2 JAN 1005	266	.00	.00	.00	1.
1 JAN 2140	117	.01	.01	.00	0.	*	2 JAN 1010	267	.00	.00	.00	1.
1 JAN 2145	118	.01	.01	.00	0.	*	2 JAN 1015	268	.00	.00	.00	1.
1 JAN 2150	119	.01	.01	.00	0.	*	2 JAN 1020	269	.00	.00	.00	1.
1 JAN 2155	120	.01	.01	.00	0.	*	2 JAN 1025	270	.00	.00	.00	1.
1 JAN 2200	121	.01	.01	.00	0.	*	2 JAN 1030	271	.00	.00	.00	1.
1 JAN 2205	122	.01	.01	.00	0.	*	2 JAN 1035	272	.00	.00	.00	1.
1 JAN 2210	123	.01	.01	.00	0.	*	2 JAN 1040	273	.00	.00	.00	1.
1 JAN 2215	124	.01	.01	.00	0.	*	2 JAN 1045	274	.00	.00	.00	1.
1 JAN 2220	125	.01	.01	.00	0.	*	2 JAN 1050	275	.00	.00	.00	1.
1 JAN 2225	126	.01	.01	.00	0.	*	2 JAN 1055	276	.00	.00	.00	1.
1 JAN 2230	127	.01	.01	.00	0.	*	2 JAN 1100	277	.00	.00	.00	1.
1 JAN 2235	128	.01	.01	.00	0.	*	2 JAN 1105	278	.00	.00	.00	1.
1 JAN 2240	129	.01	.01	.00	0.	*	2 JAN 1110	279	.00	.00	.00	1.
1 JAN 2245	130	.01	.01	.00	0.	*	2 JAN 1115	280	.00	.00	.00	1.
1 JAN 2250	131	.01	.01	.00	0.	*	2 JAN 1120	281	.00	.00	.00	1.
1 JAN 2255	132	.01	.01	.00	0.	*	2 JAN 1125	282	.00	.00	.00	1.
1 JAN 2300	133	.01	.01	.00	0.	*	2 JAN 1130	283	.00	.00	.00	1.
1 JAN 2305	134	.01	.01	.00	0.	*	2 JAN 1135	284	.00	.00	.00	1.
1 JAN 2310	135	.01	.01	.00	0.	*	2 JAN 1140	285	.00	.00	.00	1.
1 JAN 2315	136	.01	.01	.00	0.	*	2 JAN 1145	286	.00	.00	.00	1.
1 JAN 2320	137	.01	.01	.00	0.	*	2 JAN 1150	287	.00	.00	.00	1.
1 JAN 2325	138	.01	.01	.00	0.	*	2 JAN 1155	288	.00	.00	.00	1.
1 JAN 2330	139	.01	.01	.00	0.	*	2 JAN 1200	289	.00	.00	.00	1.
1 JAN 2335	140	.01	.01	.00	0.	*	2 JAN 1205	290	.00	.00	.00	1.
1 JAN 2340	141	.01	.01	.00	0.	*	2 JAN 1210	291	.00	.00	.00	1.
1 JAN 2345	142	.01	.01	.00	0.	*	2 JAN 1215	292	.00	.00	.00	0.
1 JAN 2350	143	.01	.01	.00	0.	*	2 JAN 1220	293	.00	.00	.00	0.
1 JAN 2355	144	.01	.01	.00	0.	*	2 JAN 1225	294	.00	.00	.00	0.
2 JAN 0000	145	.01	.01	.00	0.	*	2 JAN 1230	295	.00	.00	.00	0.
2 JAN 0005	146	.01	.01	.00	0.	*	2 JAN 1235	296	.00	.00	.00	0.
2 JAN 0010	147	.01	.01	.00	0.	*	2 JAN 1240	297	.00	.00	.00	0.
2 JAN 0015	148	.01	.01	.00	0.	*	2 JAN 1245	298	.00	.00	.00	0.
2 JAN 0020	149	.01	.01	.00	0.	*	2 JAN 1250	299	.00	.00	.00	0.
2 JAN 0025	150	.01	.01	.00	0.	*	2 JAN 1255	300	.00	.00	.00	0.
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TOTAL RAINFALL = 2.49, TOTAL LOSS = 1.93, TOTAL EXCESS = .56

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PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
  (CFS)       (HR)                    6-HR       24-HR       72-HR     24.92-HR
    16.      16.25        (CFS)        3.          1.          1.           1.
                        (INCHES)      .484        .564        .564         .564
                         (AC-FT)       2.          2.          2.           2.

                        CUMULATIVE AREA =     .06 SQ MI


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


          **************
          *            *
108 KK    *    DET_6   *
          *            *
          **************
                    DETAIN ON THE EAST SIDE OF TRACKS AT THE SUMP NEAR THE MOBILE HOME PARK

             HYDROGRAPH ROUTING DATA

110 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

111 SA              AREA          .0        .0        .6       1.6       3.4

112 SE          ELEVATION      61.50     62.00     64.00     66.00     68.00

113 SQ          DISCHARGE         0.        1.        3.        6.        8.       10.       61.      160.      297.      470.


114 SE          ELEVATION      61.50     62.00     62.50     63.00     63.50     64.00     64.10     64.20     64.30     64.40


                                                                  ***

                                                  COMPUTED STORAGE-ELEVATION DATA

           STORAGE        .00       .01       .48      2.51      7.37
         ELEVATION      61.50     62.00     64.00     66.00     68.00

                                                COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

           STORAGE        .00       .01       .04       .11       .26       .48       .54       .60       .67       .73
           OUTFLOW        .00       .78      2.82      5.67      8.26      9.91     60.72    159.88    297.20    470.45
         ELEVATION      61.50     62.00     62.50     63.00     63.50     64.00     64.10     64.20     64.30     64.40

           STORAGE       2.51      7.37
           OUTFLOW    3242.49   6707.54
         ELEVATION      66.00     68.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN       10. TO     6708.
                THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
                THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)
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HYDROGRAPH AT STATION DET_6

DA MON HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA MON HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA MON HRMN	ORD	OUTFLOW	STORAGE	STAGE
1 JAN 1200	1	0.	.0	61.5	1 JAN 2020	101	0.	.0	61.5	2 JAN 0440	201	9.	.3	63.7
1 JAN 1205	2	0.	.0	61.5	1 JAN 2025	102	0.	.0	61.5	2 JAN 0445	202	9.	.3	63.6
1 JAN 1210	3	0.	.0	61.5	1 JAN 2030	103	0.	.0	61.5	2 JAN 0450	203	9.	.3	63.6
1 JAN 1215	4	0.	.0	61.5	1 JAN 2035	104	0.	.0	61.5	2 JAN 0455	204	8.	.3	63.6
1 JAN 1220	5	0.	.0	61.5	1 JAN 2040	105	0.	.0	61.5	2 JAN 0500	205	8.	.3	63.5
1 JAN 1225	6	0.	.0	61.5	1 JAN 2045	106	0.	.0	61.5	2 JAN 0505	206	8.	.2	63.4
1 JAN 1230	7	0.	.0	61.5	1 JAN 2050	107	0.	.0	61.5	2 JAN 0510	207	7.	.2	63.3
1 JAN 1235	8	0.	.0	61.5	1 JAN 2055	108	0.	.0	61.5	2 JAN 0515	208	7.	.2	63.2
1 JAN 1240	9	0.	.0	61.5	1 JAN 2100	109	0.	.0	61.5	2 JAN 0520	209	6.	.2	63.1
1 JAN 1245	10	0.	.0	61.5	1 JAN 2105	110	0.	.0	61.5	2 JAN 0525	210	6.	.1	63.1
1 JAN 1250	11	0.	.0	61.5	1 JAN 2110	111	0.	.0	61.5	2 JAN 0530	211	5.	.1	63.0
1 JAN 1255	12	0.	.0	61.5	1 JAN 2115	112	0.	.0	61.5	2 JAN 0535	212	5.	.1	62.8
1 JAN 1300	13	0.	.0	61.5	1 JAN 2120	113	0.	.0	61.5	2 JAN 0540	213	4.	.1	62.8
1 JAN 1305	14	0.	.0	61.5	1 JAN 2125	114	0.	.0	61.5	2 JAN 0545	214	4.	.1	62.7
1 JAN 1310	15	0.	.0	61.5	1 JAN 2130	115	0.	.0	61.5	2 JAN 0550	215	3.	.1	62.6
1 JAN 1315	16	0.	.0	61.5	1 JAN 2135	116	0.	.0	61.5	2 JAN 0555	216	3.	.0	62.6
1 JAN 1320	17	0.	.0	61.5	1 JAN 2140	117	0.	.0	61.5	2 JAN 0600	217	3.	.0	62.5
1 JAN 1325	18	0.	.0	61.5	1 JAN 2145	118	0.	.0	61.5	2 JAN 0605	218	3.	.0	62.5
1 JAN 1330	19	0.	.0	61.5	1 JAN 2150	119	0.	.0	61.5	2 JAN 0610	219	2.	.0	62.4
1 JAN 1335	20	0.	.0	61.5	1 JAN 2155	120	0.	.0	61.5	2 JAN 0615	220	2.	.0	62.3
1 JAN 1340	21	0.	.0	61.5	1 JAN 2200	121	0.	.0	61.5	2 JAN 0620	221	2.	.0	62.3
1 JAN 1345	22	0.	.0	61.5	1 JAN 2205	122	0.	.0	61.5	2 JAN 0625	222	2.	.0	62.3
1 JAN 1350	23	0.	.0	61.5	1 JAN 2210	123	0.	.0	61.5	2 JAN 0630	223	2.	.0	62.3
1 JAN 1355	24	0.	.0	61.5	1 JAN 2215	124	0.	.0	61.5	2 JAN 0635	224	2.	.0	62.2
1 JAN 1400	25	0.	.0	61.5	1 JAN 2220	125	0.	.0	61.5	2 JAN 0640	225	2.	.0	62.2
1 JAN 1405	26	0.	.0	61.5	1 JAN 2225	126	0.	.0	61.5	2 JAN 0645	226	2.	.0	62.2
1 JAN 1410	27	0.	.0	61.5	1 JAN 2230	127	0.	.0	61.5	2 JAN 0650	227	2.	.0	62.2
1 JAN 1415	28	0.	.0	61.5	1 JAN 2235	128	0.	.0	61.5	2 JAN 0655	228	1.	.0	62.2
1 JAN 1420	29	0.	.0	61.5	1 JAN 2240	129	0.	.0	61.5	2 JAN 0700	229	1.	.0	62.2
1 JAN 1425	30	0.	.0	61.5	1 JAN 2245	130	0.	.0	61.5	2 JAN 0705	230	1.	.0	62.2
1 JAN 1430	31	0.	.0	61.5	1 JAN 2250	131	0.	.0	61.5	2 JAN 0710	231	1.	.0	62.1
1 JAN 1435	32	0.	.0	61.5	1 JAN 2255	132	0.	.0	61.5	2 JAN 0715	232	1.	.0	62.1
1 JAN 1440	33	0.	.0	61.5	1 JAN 2300	133	0.	.0	61.5	2 JAN 0720	233	1.	.0	62.1
1 JAN 1445	34	0.	.0	61.5	1 JAN 2305	134	0.	.0	61.5	2 JAN 0725	234	1.	.0	62.1
1 JAN 1450	35	0.	.0	61.5	1 JAN 2310	135	0.	.0	61.5	2 JAN 0730	235	1.	.0	62.1
1 JAN 1455	36	0.	.0	61.5	1 JAN 2315	136	0.	.0	61.5	2 JAN 0735	236	1.	.0	62.1
1 JAN 1500	37	0.	.0	61.5	1 JAN 2320	137	0.	.0	61.5	2 JAN 0740	237	1.	.0	62.1
1 JAN 1505	38	0.	.0	61.5	1 JAN 2325	138	0.	.0	61.5	2 JAN 0745	238	1.	.0	62.1
1 JAN 1510	39	0.	.0	61.5	1 JAN 2330	139	0.	.0	61.5	2 JAN 0750	239	1.	.0	62.1
1 JAN 1515	40	0.	.0	61.5	1 JAN 2335	140	0.	.0	61.5	2 JAN 0755	240	1.	.0	62.1
1 JAN 1520	41	0.	.0	61.5	1 JAN 2340	141	0.	.0	61.5	2 JAN 0800	241	1.	.0	62.1
1 JAN 1525	42	0.	.0	61.5	1 JAN 2345	142	0.	.0	61.5	2 JAN 0805	242	1.	.0	62.1
1 JAN 1530	43	0.	.0	61.5	1 JAN 2350	143	0.	.0	61.5	2 JAN 0810	243	1.	.0	62.1
1 JAN 1535	44	0.	.0	61.5	1 JAN 2355	144	0.	.0	61.5	2 JAN 0815	244	1.	.0	62.1
1 JAN 1540	45	0.	.0	61.5	2 JAN 0000	145	0.	.0	61.5	2 JAN 0820	245	1.	.0	62.1
1 JAN 1545	46	0.	.0	61.5	2 JAN 0005	146	0.	.0	61.5	2 JAN 0825	246	1.	.0	62.1
1 JAN 1550	47	0.	.0	61.5	2 JAN 0010	147	0.	.0	61.5	2 JAN 0830	247	1.	.0	62.1
1 JAN 1555	48	0.	.0	61.5	2 JAN 0015	148	0.	.0	61.5	2 JAN 0835	248	1.	.0	62.1
1 JAN 1600	49	0.	.0	61.5	2 JAN 0020	149	0.	.0	61.5	2 JAN 0840	249	1.	.0	62.1
1 JAN 1605	50	0.	.0	61.5	2 JAN 0025	150	0.	.0	61.5	2 JAN 0845	250	1.	.0	62.1
1 JAN 1610	51	0.	.0	61.5	2 JAN 0030	151	0.	.0	61.5	2 JAN 0850	251	1.	.0	62.1
1 JAN 1615	52	0.	.0	61.5	2 JAN 0035	152	0.	.0	61.5	2 JAN 0855	252	1.	.0	62.1

1 JAN 1620	53	0.	.0	61.5 *	2 JAN 0040 153	0.	.0	61.5 *	2 JAN 0900 253	1.	.0	62.1
1 JAN 1625	54	0.	.0	61.5 *	2 JAN 0045 154	0.	.0	61.5 *	2 JAN 0905 254	1.	.0	62.1
1 JAN 1630	55	0.	.0	61.5 *	2 JAN 0050 155	0.	.0	61.5 *	2 JAN 0910 255	1.	.0	62.0
1 JAN 1635	56	0.	.0	61.5 *	2 JAN 0055 156	0.	.0	61.5 *	2 JAN 0915 256	1.	.0	62.0
1 JAN 1640	57	0.	.0	61.5 *	2 JAN 0100 157	0.	.0	61.5 *	2 JAN 0920 257	1.	.0	62.0
1 JAN 1645	58	0.	.0	61.5 *	2 JAN 0105 158	0.	.0	61.5 *	2 JAN 0925 258	1.	.0	62.0
1 JAN 1650	59	0.	.0	61.5 *	2 JAN 0110 159	0.	.0	61.5 *	2 JAN 0930 259	1.	.0	62.0
1 JAN 1655	60	0.	.0	61.5 *	2 JAN 0115 160	0.	.0	61.5 *	2 JAN 0935 260	1.	.0	62.0
1 JAN 1700	61	0.	.0	61.5 *	2 JAN 0120 161	0.	.0	61.5 *	2 JAN 0940 261	1.	.0	62.0
1 JAN 1705	62	0.	.0	61.5 *	2 JAN 0125 162	0.	.0	61.5 *	2 JAN 0945 262	1.	.0	62.0
1 JAN 1710	63	0.	.0	61.5 *	2 JAN 0130 163	0.	.0	61.5 *	2 JAN 0950 263	1.	.0	62.0
1 JAN 1715	64	0.	.0	61.5 *	2 JAN 0135 164	0.	.0	61.5 *	2 JAN 0955 264	1.	.0	62.0
1 JAN 1720	65	0.	.0	61.5 *	2 JAN 0140 165	0.	.0	61.5 *	2 JAN 1000 265	1.	.0	62.0
1 JAN 1725	66	0.	.0	61.5 *	2 JAN 0145 166	0.	.0	61.5 *	2 JAN 1005 266	1.	.0	62.0
1 JAN 1730	67	0.	.0	61.5 *	2 JAN 0150 167	0.	.0	61.5 *	2 JAN 1010 267	1.	.0	62.0
1 JAN 1735	68	0.	.0	61.5 *	2 JAN 0155 168	0.	.0	61.5 *	2 JAN 1015 268	1.	.0	62.0
1 JAN 1740	69	0.	.0	61.5 *	2 JAN 0200 169	0.	.0	61.6 *	2 JAN 1020 269	1.	.0	62.0
1 JAN 1745	70	0.	.0	61.5 *	2 JAN 0205 170	0.	.0	61.6 *	2 JAN 1025 270	1.	.0	62.0
1 JAN 1750	71	0.	.0	61.5 *	2 JAN 0210 171	0.	.0	61.6 *	2 JAN 1030 271	1.	.0	62.0
1 JAN 1755	72	0.	.0	61.5 *	2 JAN 0215 172	0.	.0	61.6 *	2 JAN 1035 272	1.	.0	62.0
1 JAN 1800	73	0.	.0	61.5 *	2 JAN 0220 173	0.	.0	61.6 *	2 JAN 1040 273	1.	.0	62.0
1 JAN 1805	74	0.	.0	61.5 *	2 JAN 0225 174	0.	.0	61.7 *	2 JAN 1045 274	1.	.0	62.0
1 JAN 1810	75	0.	.0	61.5 *	2 JAN 0230 175	0.	.0	61.7 *	2 JAN 1050 275	1.	.0	62.0
1 JAN 1815	76	0.	.0	61.5 *	2 JAN 0235 176	0.	.0	61.7 *	2 JAN 1055 276	1.	.0	62.0
1 JAN 1820	77	0.	.0	61.5 *	2 JAN 0240 177	0.	.0	61.8 *	2 JAN 1100 277	1.	.0	62.0
1 JAN 1825	78	0.	.0	61.5 *	2 JAN 0245 178	0.	.0	61.8 *	2 JAN 1105 278	1.	.0	62.0
1 JAN 1830	79	0.	.0	61.5 *	2 JAN 0250 179	1.	.0	61.8 *	2 JAN 1110 279	1.	.0	62.0
1 JAN 1835	80	0.	.0	61.5 *	2 JAN 0255 180	1.	.0	61.9 *	2 JAN 1115 280	1.	.0	62.0
1 JAN 1840	81	0.	.0	61.5 *	2 JAN 0300 181	1.	.0	61.9 *	2 JAN 1120 281	1.	.0	62.0
1 JAN 1845	82	0.	.0	61.5 *	2 JAN 0305 182	1.	.0	62.0 *	2 JAN 1125 282	1.	.0	62.0
1 JAN 1850	83	0.	.0	61.5 *	2 JAN 0310 183	1.	.0	62.0 *	2 JAN 1130 283	1.	.0	62.0
1 JAN 1855	84	0.	.0	61.5 *	2 JAN 0315 184	1.	.0	62.0 *	2 JAN 1135 284	1.	.0	62.0
1 JAN 1900	85	0.	.0	61.5 *	2 JAN 0320 185	1.	.0	62.0 *	2 JAN 1140 285	1.	.0	62.0
1 JAN 1905	86	0.	.0	61.5 *	2 JAN 0325 186	1.	.0	62.1 *	2 JAN 1145 286	1.	.0	62.0
1 JAN 1910	87	0.	.0	61.5 *	2 JAN 0330 187	1.	.0	62.1 *	2 JAN 1150 287	1.	.0	62.0
1 JAN 1915	88	0.	.0	61.5 *	2 JAN 0335 188	1.	.0	62.1 *	2 JAN 1155 288	1.	.0	62.0
1 JAN 1920	89	0.	.0	61.5 *	2 JAN 0340 189	2.	.0	62.2 *	2 JAN 1200 289	1.	.0	62.0
1 JAN 1925	90	0.	.0	61.5 *	2 JAN 0345 190	2.	.0	62.3 *	2 JAN 1205 290	1.	.0	61.9
1 JAN 1930	91	0.	.0	61.5 *	2 JAN 0350 191	2.	.0	62.3 *	2 JAN 1210 291	1.	.0	61.9
1 JAN 1935	92	0.	.0	61.5 *	2 JAN 0355 192	3.	.0	62.4 *	2 JAN 1215 292	1.	.0	61.8
1 JAN 1940	93	0.	.0	61.5 *	2 JAN 0400 193	3.	.0	62.6 *	2 JAN 1220 293	0.	.0	61.8
1 JAN 1945	94	0.	.0	61.5 *	2 JAN 0405 194	4.	.1	62.7 *	2 JAN 1225 294	0.	.0	61.7
1 JAN 1950	95	0.	.0	61.5 *	2 JAN 0410 195	6.	.1	63.0 *	2 JAN 1230 295	0.	.0	61.6
1 JAN 1955	96	0.	.0	61.5 *	2 JAN 0415 196	7.	.2	63.2 *	2 JAN 1235 296	0.	.0	61.6
1 JAN 2000	97	0.	.0	61.5 *	2 JAN 0420 197	8.	.2	63.4 *	2 JAN 1240 297	0.	.0	61.6
1 JAN 2005	98	0.	.0	61.5 *	2 JAN 0425 198	8.	.3	63.6 *	2 JAN 1245 298	0.	.0	61.5
1 JAN 2010	99	0.	.0	61.5 *	2 JAN 0430 199	9.	.3	63.6 *	2 JAN 1250 299	0.	.0	61.5
1 JAN 2015	100	0.	.0	61.5 *	2 JAN 0435 200	9.	.3	63.7 *	2 JAN 1255 300	0.	.0	61.5
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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
9.	16.58	(CPS)	3.	1.	1.	1.
		(INCHES)	.484	.564	.564	.564
		(AC-FT)	2.	2.	2.	2.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
0.	16.58	0.	0.	0.	0.

PEAK STAGE	TIME		MAXIMUM AVERAGE STAGE		
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
63.66	16.58	62.50	61.83	61.82	61.82

CUMULATIVE AREA = .06 SQ MI

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          *            *
115 KK    *          5 *
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SUBBASIN RUNOFF DATA

116 BA SUBBASIN CHARACTERISTICS

TAREA .02 SUBBASIN AREA

PRECIPITATION DATA

27 PB STORM 2.49 BASIN TOTAL PRECIPITATION

27 PI INCREMENTAL PRECIPITATION PATTERN

.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.02	.02	.02	.02	.02	.02	.02
.02	.02	.02	.03	.03	.03	.03	.04	.05	.07
.10	.35	.06	.04	.03	.02	.02	.02	.02	.02
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00			

117 LS SCS LOSS RATE

	STRTL	.94	INITIAL ABSTRACTION
	CRVNBR	68.00	CURVE NUMBER
	RTIMP	.00	PERCENT IMPERVIOUS AREA

110 UD SCS DIMENSIONLESS UNITGRAPH

	TLAG	.08	LAG

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WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

UNIT HYDROGRAPH

7 END-OF-PERIOD ORDINATES

58. 64. 22. 8. 3. 1. 0.

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HYDROGRAPH AT STATION 5

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DA MON HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	DA MON HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1 JAN 1200	1	.00	.00	.00	0.	2 JAN 0030	151	.01	.01	.00	0.
1 JAN 1205	2	.00	.00	.00	0.	2 JAN 0035	152	.01	.01	.00	0.
1 JAN 1210	3	.00	.00	.00	0.	2 JAN 0040	153	.01	.01	.00	0.
1 JAN 1215	4	.00	.00	.00	0.	2 JAN 0045	154	.01	.01	.00	0.
1 JAN 1220	5	.00	.00	.00	0.	2 JAN 0050	155	.01	.01	.00	0.
1 JAN 1225	6	.00	.00	.00	0.	2 JAN 0055	156	.01	.01	.00	0.
1 JAN 1230	7	.00	.00	.00	0.	2 JAN 0100	157	.01	.01	.00	0.
1 JAN 1235	8	.00	.00	.00	0.	2 JAN 0105	158	.01	.01	.00	0.
1 JAN 1240	9	.00	.00	.00	0.	2 JAN 0110	159	.01	.01	.00	0.
1 JAN 1245	10	.00	.00	.00	0.	2 JAN 0115	160	.01	.01	.00	0.
1 JAN 1250	11	.00	.00	.00	0.	2 JAN 0120	161	.01	.01	.00	0.
1 JAN 1255	12	.00	.00	.00	0.	2 JAN 0125	162	.01	.01	.00	0.
1 JAN 1300	13	.00	.00	.00	0.	2 JAN 0130	163	.01	.01	.00	0.
1 JAN 1305	14	.00	.00	.00	0.	2 JAN 0135	164	.01	.01	.00	0.
1 JAN 1310	15	.00	.00	.00	0.	2 JAN 0140	165	.01	.01	.00	0.
1 JAN 1315	16	.00	.00	.00	0.	2 JAN 0145	166	.01	.01	.00	0.
1 JAN 1320	17	.00	.00	.00	0.	2 JAN 0150	167	.01	.01	.00	0.
1 JAN 1325	18	.00	.00	.00	0.	2 JAN 0155	168	.01	.01	.00	0.
1 JAN 1330	19	.00	.00	.00	0.	2 JAN 0200	169	.01	.01	.00	0.
1 JAN 1335	20	.00	.00	.00	0.	2 JAN 0205	170	.01	.01	.00	0.
1 JAN 1340	21	.00	.00	.00	0.	2 JAN 0210	171	.01	.01	.00	0.
1 JAN 1345	22	.00	.00	.00	0.	2 JAN 0215	172	.01	.01	.00	0.
1 JAN 1350	23	.00	.00	.00	0.	2 JAN 0220	173	.01	.01	.00	0.
1 JAN 1355	24	.00	.00	.00	0.	2 JAN 0225	174	.01	.01	.00	0.
1 JAN 1400	25	.00	.00	.00	0.	2 JAN 0230	175	.02	.02	.00	0.
1 JAN 1405	26	.00	.00	.00	0.	2 JAN 0235	176	.02	.02	.00	0.
1 JAN 1410	27	.00	.00	.00	0.	2 JAN 0240	177	.02	.02	.00	0.
1 JAN 1415	28	.00	.00	.00	0.	2 JAN 0245	178	.02	.02	.00	0.
1 JAN 1420	29	.00	.00	.00	0.	2 JAN 0250	179	.02	.02	.00	0.
1 JAN 1425	30	.00	.00	.00	0.	2 JAN 0255	180	.02	.02	.00	0.
1 JAN 1430	31	.00	.00	.00	0.	2 JAN 0300	181	.02	.02	.00	0.
1 JAN 1435	32	.00	.00	.00	0.	2 JAN 0305	182	.02	.02	.00	0.
1 JAN 1440	33	.00	.00	.00	0.	2 JAN 0310	183	.02	.02	.00	0.
1 JAN 1445	34	.00	.00	.00	0.	2 JAN 0315	184	.02	.02	.00	0.
1 JAN 1450	35	.00	.00	.00	0.	2 JAN 0320	185	.03	.02	.00	0.
1 JAN 1455	36	.00	.00	.00	0.	2 JAN 0325	186	.03	.03	.00	0.
1 JAN 1500	37	.00	.00	.00	0.	2 JAN 0330	187	.03	.03	.00	0.

1 JAN 1505	38	.00	.00	.00	0.	*	2 JAN 0335	188	.03	.03	.00	0.
1 JAN 1510	39	.00	.00	.00	0.	*	2 JAN 0340	189	.04	.04	.00	1.
1 JAN 1515	40	.00	.00	.00	0.	*	2 JAN 0345	190	.05	.04	.01	1.
1 JAN 1520	41	.00	.00	.00	0.	*	2 JAN 0350	191	.07	.06	.01	1.
1 JAN 1525	42	.00	.00	.00	0.	*	2 JAN 0355	192	.10	.08	.02	2.
1 JAN 1530	43	.00	.00	.00	0.	*	2 JAN 0400	193	.35	.27	.08	6.
1 JAN 1535	44	.00	.00	.00	0.	*	2 JAN 0405	194	.06	.04	.02	7.
1 JAN 1540	45	.00	.00	.00	0.	*	2 JAN 0410	195	.04	.03	.01	4.
1 JAN 1545	46	.00	.00	.00	0.	*	2 JAN 0415	196	.03	.02	.01	2.
1 JAN 1550	47	.00	.00	.00	0.	*	2 JAN 0420	197	.02	.02	.01	2.
1 JAN 1555	48	.00	.00	.00	0.	*	2 JAN 0425	198	.02	.01	.01	1.
1 JAN 1600	49	.00	.00	.00	0.	*	2 JAN 0430	199	.02	.01	.01	1.
1 JAN 1605	50	.00	.00	.00	0.	*	2 JAN 0435	200	.02	.01	.01	1.
1 JAN 1610	51	.00	.00	.00	0.	*	2 JAN 0440	201	.02	.01	.01	1.
1 JAN 1615	52	.00	.00	.00	0.	*	2 JAN 0445	202	.01	.01	.01	1.
1 JAN 1620	53	.00	.00	.00	0.	*	2 JAN 0450	203	.01	.01	.00	1.
1 JAN 1625	54	.00	.00	.00	0.	*	2 JAN 0455	204	.01	.01	.00	1.
1 JAN 1630	55	.00	.00	.00	0.	*	2 JAN 0500	205	.01	.01	.00	1.
1 JAN 1635	56	.00	.00	.00	0.	*	2 JAN 0505	206	.01	.01	.00	1.
1 JAN 1640	57	.00	.00	.00	0.	*	2 JAN 0510	207	.01	.01	.00	1.
1 JAN 1645	58	.00	.00	.00	0.	*	2 JAN 0515	208	.01	.01	.00	1.
1 JAN 1650	59	.00	.00	.00	0.	*	2 JAN 0520	209	.01	.01	.00	1.
1 JAN 1655	60	.00	.00	.00	0.	*	2 JAN 0525	210	.01	.01	.00	1.
1 JAN 1700	61	.00	.00	.00	0.	*	2 JAN 0530	211	.01	.01	.00	1.
1 JAN 1705	62	.00	.00	.00	0.	*	2 JAN 0535	212	.01	.01	.00	1.
1 JAN 1710	63	.00	.00	.00	0.	*	2 JAN 0540	213	.01	.01	.00	1.
1 JAN 1715	64	.00	.00	.00	0.	*	2 JAN 0545	214	.01	.01	.00	1.
1 JAN 1720	65	.00	.00	.00	0.	*	2 JAN 0550	215	.01	.01	.00	0.
1 JAN 1725	66	.00	.00	.00	0.	*	2 JAN 0555	216	.01	.01	.00	0.
1 JAN 1730	67	.00	.00	.00	0.	*	2 JAN 0600	217	.01	.00	.00	0.
1 JAN 1735	68	.00	.00	.00	0.	*	2 JAN 0605	218	.01	.00	.00	0.
1 JAN 1740	69	.00	.00	.00	0.	*	2 JAN 0610	219	.01	.00	.00	0.
1 JAN 1745	70	.00	.00	.00	0.	*	2 JAN 0615	220	.01	.00	.00	0.
1 JAN 1750	71	.00	.00	.00	0.	*	2 JAN 0620	221	.01	.00	.00	0.
1 JAN 1755	72	.00	.00	.00	0.	*	2 JAN 0625	222	.01	.00	.00	0.
1 JAN 1800	73	.00	.00	.00	0.	*	2 JAN 0630	223	.01	.00	.00	0.
1 JAN 1805	74	.00	.00	.00	0.	*	2 JAN 0635	224	.01	.00	.00	0.
1 JAN 1810	75	.00	.00	.00	0.	*	2 JAN 0640	225	.01	.00	.00	0.
1 JAN 1815	76	.00	.00	.00	0.	*	2 JAN 0645	226	.01	.00	.00	0.
1 JAN 1820	77	.00	.00	.00	0.	*	2 JAN 0650	227	.01	.00	.00	0.
1 JAN 1825	78	.00	.00	.00	0.	*	2 JAN 0655	228	.01	.00	.00	0.
1 JAN 1830	79	.00	.00	.00	0.	*	2 JAN 0700	229	.01	.00	.00	0.
1 JAN 1835	80	.00	.00	.00	0.	*	2 JAN 0705	230	.01	.00	.00	0.
1 JAN 1840	81	.00	.00	.00	0.	*	2 JAN 0710	231	.01	.00	.00	0.
1 JAN 1845	82	.00	.00	.00	0.	*	2 JAN 0715	232	.01	.00	.00	0.
1 JAN 1850	83	.00	.00	.00	0.	*	2 JAN 0720	233	.01	.00	.00	0.
1 JAN 1855	84	.00	.00	.00	0.	*	2 JAN 0725	234	.00	.00	.00	0.
1 JAN 1900	85	.00	.00	.00	0.	*	2 JAN 0730	235	.00	.00	.00	0.
1 JAN 1905	86	.00	.00	.00	0.	*	2 JAN 0735	236	.00	.00	.00	0.
1 JAN 1910	87	.00	.00	.00	0.	*	2 JAN 0740	237	.00	.00	.00	0.
1 JAN 1915	88	.00	.00	.00	0.	*	2 JAN 0745	238	.00	.00	.00	0.
1 JAN 1920	89	.00	.00	.00	0.	*	2 JAN 0750	239	.00	.00	.00	0.
1 JAN 1925	90	.00	.00	.00	0.	*	2 JAN 0755	240	.00	.00	.00	0.
1 JAN 1930	91	.00	.00	.00	0.	*	2 JAN 0800	241	.00	.00	.00	0.
1 JAN 1935	92	.00	.00	.00	0.	*	2 JAN 0805	242	.00	.00	.00	0.
1 JAN 1940	93	.00	.00	.00	0.	*	2 JAN 0810	243	.00	.00	.00	0.
1 JAN 1945	94	.00	.00	.00	0.	*	2 JAN 0815	244	.00	.00	.00	0.
1 JAN 1950	95	.00	.00	.00	0.	*	2 JAN 0820	245	.00	.00	.00	0.
1 JAN 1955	96	.00	.00	.00	0.	*	2 JAN 0825	246	.00	.00	.00	0.
1 JAN 2000	97	.00	.00	.00	0.	*	2 JAN 0830	247	.00	.00	.00	0.

1 JAN 2005	98	.00	.00	.00	0.	*	2 JAN 0835	248	.00	.00	.00	0.
1 JAN 2010	99	.00	.00	.00	0.	*	2 JAN 0840	249	.00	.00	.00	0.
1 JAN 2015	100	.00	.00	.00	0.	*	2 JAN 0845	250	.00	.00	.00	0.
1 JAN 2020	101	.00	.00	.00	0.	*	2 JAN 0850	251	.00	.00	.00	0.
1 JAN 2025	102	.00	.00	.00	0.	*	2 JAN 0855	252	.00	.00	.00	0.
1 JAN 2030	103	.00	.00	.00	0.	*	2 JAN 0900	253	.00	.00	.00	0.
1 JAN 2035	104	.00	.00	.00	0.	*	2 JAN 0905	254	.00	.00	.00	0.
1 JAN 2040	105	.00	.00	.00	0.	*	2 JAN 0910	255	.00	.00	.00	0.
1 JAN 2045	106	.00	.00	.00	0.	*	2 JAN 0915	256	.00	.00	.00	0.
1 JAN 2050	107	.00	.00	.00	0.	*	2 JAN 0920	257	.00	.00	.00	0.
1 JAN 2055	108	.00	.00	.00	0.	*	2 JAN 0925	258	.00	.00	.00	0.
1 JAN 2100	109	.00	.00	.00	0.	*	2 JAN 0930	259	.00	.00	.00	0.
1 JAN 2105	110	.00	.00	.00	0.	*	2 JAN 0935	260	.00	.00	.00	0.
1 JAN 2110	111	.00	.00	.00	0.	*	2 JAN 0940	261	.00	.00	.00	0.
1 JAN 2115	112	.00	.00	.00	0.	*	2 JAN 0945	262	.00	.00	.00	0.
1 JAN 2120	113	.01	.01	.00	0.	*	2 JAN 0950	263	.00	.00	.00	0.
1 JAN 2125	114	.01	.01	.00	0.	*	2 JAN 0955	264	.00	.00	.00	0.
1 JAN 2130	115	.01	.01	.00	0.	*	2 JAN 1000	265	.00	.00	.00	0.
1 JAN 2135	116	.01	.01	.00	0.	*	2 JAN 1005	266	.00	.00	.00	0.
1 JAN 2140	117	.01	.01	.00	0.	*	2 JAN 1010	267	.00	.00	.00	0.
1 JAN 2145	118	.01	.01	.00	0.	*	2 JAN 1015	268	.00	.00	.00	0.
1 JAN 2150	119	.01	.01	.00	0.	*	2 JAN 1020	269	.00	.00	.00	0.
1 JAN 2155	120	.01	.01	.00	0.	*	2 JAN 1025	270	.00	.00	.00	0.
1 JAN 2200	121	.01	.01	.00	0.	*	2 JAN 1030	271	.00	.00	.00	0.
1 JAN 2205	122	.01	.01	.00	0.	*	2 JAN 1035	272	.00	.00	.00	0.
1 JAN 2210	123	.01	.01	.00	0.	*	2 JAN 1040	273	.00	.00	.00	0.
1 JAN 2215	124	.01	.01	.00	0.	*	2 JAN 1045	274	.00	.00	.00	0.
1 JAN 2220	125	.01	.01	.00	0.	*	2 JAN 1050	275	.00	.00	.00	0.
1 JAN 2225	126	.01	.01	.00	0.	*	2 JAN 1055	276	.00	.00	.00	0.
1 JAN 2230	127	.01	.01	.00	0.	*	2 JAN 1100	277	.00	.00	.00	0.
1 JAN 2235	128	.01	.01	.00	0.	*	2 JAN 1105	278	.00	.00	.00	0.
1 JAN 2240	129	.01	.01	.00	0.	*	2 JAN 1110	279	.00	.00	.00	0.
1 JAN 2245	130	.01	.01	.00	0.	*	2 JAN 1115	280	.00	.00	.00	0.
1 JAN 2250	131	.01	.01	.00	0.	*	2 JAN 1120	281	.00	.00	.00	0.
1 JAN 2255	132	.01	.01	.00	0.	*	2 JAN 1125	282	.00	.00	.00	0.
1 JAN 2300	133	.01	.01	.00	0.	*	2 JAN 1130	283	.00	.00	.00	0.
1 JAN 2305	134	.01	.01	.00	0.	*	2 JAN 1135	284	.00	.00	.00	0.
1 JAN 2310	135	.01	.01	.00	0.	*	2 JAN 1140	285	.00	.00	.00	0.
1 JAN 2315	136	.01	.01	.00	0.	*	2 JAN 1145	286	.00	.00	.00	0.
1 JAN 2320	137	.01	.01	.00	0.	*	2 JAN 1150	287	.00	.00	.00	0.
1 JAN 2325	138	.01	.01	.00	0.	*	2 JAN 1155	288	.00	.00	.00	0.
1 JAN 2330	139	.01	.01	.00	0.	*	2 JAN 1200	289	.00	.00	.00	0.
1 JAN 2335	140	.01	.01	.00	0.	*	2 JAN 1205	290	.00	.00	.00	0.
1 JAN 2340	141	.01	.01	.00	0.	*	2 JAN 1210	291	.00	.00	.00	0.
1 JAN 2345	142	.01	.01	.00	0.	*	2 JAN 1215	292	.00	.00	.00	0.
1 JAN 2350	143	.01	.01	.00	0.	*	2 JAN 1220	293	.00	.00	.00	0.
1 JAN 2355	144	.01	.01	.00	0.	*	2 JAN 1225	294	.00	.00	.00	0.
2 JAN 0000	145	.01	.01	.00	0.	*	2 JAN 1230	295	.00	.00	.00	0.
2 JAN 0005	146	.01	.01	.00	0.	*	2 JAN 1235	296	.00	.00	.00	0.
2 JAN 0010	147	.01	.01	.00	0.	*	2 JAN 1240	297	.00	.00	.00	0.
2 JAN 0015	148	.01	.01	.00	0.	*	2 JAN 1245	298	.00	.00	.00	0.
2 JAN 0020	149	.01	.01	.00	0.	*	2 JAN 1250	299	.00	.00	.00	0.
2 JAN 0025	150	.01	.01	.00	0.	*	2 JAN 1255	300	.00	.00	.00	0.
						*						

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TOTAL RAINFALL = 2.49, TOTAL LOSS = 2.11, TOTAL EXCESS = .39

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	6-HR	24-HR	72-HR	24.92-HR

7.	16.08	(CFS)	1.	0.	0.	0.
		(INCHES)	.337	.385	.385	.385
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = .02 SQ MI

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          *            *
119 KK    *          7 *
          *            *
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SUBBASIN RUNOFF DATA

120 BA SUBBASIN CHARACTERISTICS

TAREA .02 SUBBASIN AREA

PRECIPITATION DATA

27 PB STORM 2.49 BASIN TOTAL PRECIPITATION

27 PI INCREMENTAL PRECIPITATION PATTERN

.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.02	.02	.02	.02	.02	.02	.02
.02	.02	.02	.03	.03	.03	.03	.04	.05	.07
.10	.35	.06	.04	.03	.02	.02	.02	.02	.02
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00			

121 LS SCS LOSS RATE

STRTL 1.03 INITIAL ABSTRACTION

CRVNBR 66.00 CURVE NUMBER
RTIMP .00 PERCENT IMPERVIOUS AREA

122 UD SCS DIMENSIONLESS UNITGRAPH
TLAG .13 LAG

***

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

UNIT HYDROGRAPH
10 END-OF-PERIOD ORDINATES
26. 57. 41. 17. 8. 4. 2. 1. 0. 0.

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HYDROGRAPH AT STATION 7

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DA MON HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	DA MON HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1 JAN 1200	1	.00	.00	.00	0.	2 JAN 0030	151	.01	.01	.00	0.
1 JAN 1205	2	.00	.00	.00	0.	2 JAN 0035	152	.01	.01	.00	0.
1 JAN 1210	3	.00	.00	.00	0.	2 JAN 0040	153	.01	.01	.00	0.
1 JAN 1215	4	.00	.00	.00	0.	2 JAN 0045	154	.01	.01	.00	0.
1 JAN 1220	5	.00	.00	.00	0.	2 JAN 0050	155	.01	.01	.00	0.
1 JAN 1225	6	.00	.00	.00	0.	2 JAN 0055	156	.01	.01	.00	0.
1 JAN 1230	7	.00	.00	.00	0.	2 JAN 0100	157	.01	.01	.00	0.
1 JAN 1235	8	.00	.00	.00	0.	2 JAN 0105	158	.01	.01	.00	0.
1 JAN 1240	9	.00	.00	.00	0.	2 JAN 0110	159	.01	.01	.00	0.
1 JAN 1245	10	.00	.00	.00	0.	2 JAN 0115	160	.01	.01	.00	0.
1 JAN 1250	11	.00	.00	.00	0.	2 JAN 0120	161	.01	.01	.00	0.
1 JAN 1255	12	.00	.00	.00	0.	2 JAN 0125	162	.01	.01	.00	0.
1 JAN 1300	13	.00	.00	.00	0.	2 JAN 0130	163	.01	.01	.00	0.
1 JAN 1305	14	.00	.00	.00	0.	2 JAN 0135	164	.01	.01	.00	0.
1 JAN 1310	15	.00	.00	.00	0.	2 JAN 0140	165	.01	.01	.00	0.
1 JAN 1315	16	.00	.00	.00	0.	2 JAN 0145	166	.01	.01	.00	0.
1 JAN 1320	17	.00	.00	.00	0.	2 JAN 0150	167	.01	.01	.00	0.
1 JAN 1325	18	.00	.00	.00	0.	2 JAN 0155	168	.01	.01	.00	0.
1 JAN 1330	19	.00	.00	.00	0.	2 JAN 0200	169	.01	.01	.00	0.
1 JAN 1335	20	.00	.00	.00	0.	2 JAN 0205	170	.01	.01	.00	0.
1 JAN 1340	21	.00	.00	.00	0.	2 JAN 0210	171	.01	.01	.00	0.
1 JAN 1345	22	.00	.00	.00	0.	2 JAN 0215	172	.01	.01	.00	0.
1 JAN 1350	23	.00	.00	.00	0.	2 JAN 0220	173	.01	.01	.00	0.
1 JAN 1355	24	.00	.00	.00	0.	2 JAN 0225	174	.01	.01	.00	0.
1 JAN 1400	25	.00	.00	.00	0.	2 JAN 0230	175	.02	.02	.00	0.
1 JAN 1405	26	.00	.00	.00	0.	2 JAN 0235	176	.02	.02	.00	0.
1 JAN 1410	27	.00	.00	.00	0.	2 JAN 0240	177	.02	.02	.00	0.
1 JAN 1415	28	.00	.00	.00	0.	2 JAN 0245	178	.02	.02	.00	0.
1 JAN 1420	29	.00	.00	.00	0.	2 JAN 0250	179	.02	.02	.00	0.
1 JAN 1425	30	.00	.00	.00	0.	2 JAN 0255	180	.02	.02	.00	0.
1 JAN 1430	31	.00	.00	.00	0.	2 JAN 0300	181	.02	.02	.00	0.
1 JAN 1435	32	.00	.00	.00	0.	2 JAN 0305	182	.02	.02	.00	0.
1 JAN 1440	33	.00	.00	.00	0.	2 JAN 0310	183	.02	.02	.00	0.
1 JAN 1445	34	.00	.00	.00	0.	2 JAN 0315	184	.02	.02	.00	0.
1 JAN 1450	35	.00	.00	.00	0.	2 JAN 0320	185	.03	.03	.00	0.
1 JAN 1455	36	.00	.00	.00	0.	2 JAN 0325	186	.03	.03	.00	0.
1 JAN 1500	37	.00	.00	.00	0.	2 JAN 0330	187	.03	.03	.00	0.
1 JAN 1505	38	.00	.00	.00	0.	2 JAN 0335	188	.03	.03	.00	0.

1 JAN 1510	39	.00	.00	.00	0.	*	2 JAN 0340	189	.04	.04	.00	0.
1 JAN 1515	40	.00	.00	.00	0.	*	2 JAN 0345	190	.05	.04	.00	0.
1 JAN 1520	41	.00	.00	.00	0.	*	2 JAN 0350	191	.07	.06	.01	1.
1 JAN 1525	42	.00	.00	.00	0.	*	2 JAN 0355	192	.10	.08	.01	1.
1 JAN 1530	43	.00	.00	.00	0.	*	2 JAN 0400	193	.35	.28	.07	3.
1 JAN 1535	44	.00	.00	.00	0.	*	2 JAN 0405	194	.06	.04	.01	5.
1 JAN 1540	45	.00	.00	.00	0.	*	2 JAN 0410	195	.04	.03	.01	4.
1 JAN 1545	46	.00	.00	.00	0.	*	2 JAN 0415	196	.03	.02	.01	3.
1 JAN 1550	47	.00	.00	.00	0.	*	2 JAN 0420	197	.02	.02	.01	2.
1 JAN 1555	48	.00	.00	.00	0.	*	2 JAN 0425	198	.02	.02	.01	1.
1 JAN 1600	49	.00	.00	.00	0.	*	2 JAN 0430	199	.02	.01	.01	1.
1 JAN 1605	50	.00	.00	.00	0.	*	2 JAN 0435	200	.02	.01	.01	1.
1 JAN 1610	51	.00	.00	.00	0.	*	2 JAN 0440	201	.02	.01	.00	1.
1 JAN 1615	52	.00	.00	.00	0.	*	2 JAN 0445	202	.01	.01	.00	1.
1 JAN 1620	53	.00	.00	.00	0.	*	2 JAN 0450	203	.01	.01	.00	1.
1 JAN 1625	54	.00	.00	.00	0.	*	2 JAN 0455	204	.01	.01	.00	1.
1 JAN 1630	55	.00	.00	.00	0.	*	2 JAN 0500	205	.01	.01	.00	1.
1 JAN 1635	56	.00	.00	.00	0.	*	2 JAN 0505	206	.01	.01	.00	1.
1 JAN 1640	57	.00	.00	.00	0.	*	2 JAN 0510	207	.01	.01	.00	1.
1 JAN 1645	58	.00	.00	.00	0.	*	2 JAN 0515	208	.01	.01	.00	1.
1 JAN 1650	59	.00	.00	.00	0.	*	2 JAN 0520	209	.01	.01	.00	1.
1 JAN 1655	60	.00	.00	.00	0.	*	2 JAN 0525	210	.01	.01	.00	1.
1 JAN 1700	61	.00	.00	.00	0.	*	2 JAN 0530	211	.01	.01	.00	1.
1 JAN 1705	62	.00	.00	.00	0.	*	2 JAN 0535	212	.01	.01	.00	0.
1 JAN 1710	63	.00	.00	.00	0.	*	2 JAN 0540	213	.01	.01	.00	0.
1 JAN 1715	64	.00	.00	.00	0.	*	2 JAN 0545	214	.01	.01	.00	0.
1 JAN 1720	65	.00	.00	.00	0.	*	2 JAN 0550	215	.01	.01	.00	0.
1 JAN 1725	66	.00	.00	.00	0.	*	2 JAN 0555	216	.01	.01	.00	0.
1 JAN 1730	67	.00	.00	.00	0.	*	2 JAN 0600	217	.01	.00	.00	0.
1 JAN 1735	68	.00	.00	.00	0.	*	2 JAN 0605	218	.01	.00	.00	0.
1 JAN 1740	69	.00	.00	.00	0.	*	2 JAN 0610	219	.01	.00	.00	0.
1 JAN 1745	70	.00	.00	.00	0.	*	2 JAN 0615	220	.01	.00	.00	0.
1 JAN 1750	71	.00	.00	.00	0.	*	2 JAN 0620	221	.01	.00	.00	0.
1 JAN 1755	72	.00	.00	.00	0.	*	2 JAN 0625	222	.01	.00	.00	0.
1 JAN 1800	73	.00	.00	.00	0.	*	2 JAN 0630	223	.01	.00	.00	0.
1 JAN 1805	74	.00	.00	.00	0.	*	2 JAN 0635	224	.01	.00	.00	0.
1 JAN 1810	75	.00	.00	.00	0.	*	2 JAN 0640	225	.01	.00	.00	0.
1 JAN 1815	76	.00	.00	.00	0.	*	2 JAN 0645	226	.01	.00	.00	0.
1 JAN 1820	77	.00	.00	.00	0.	*	2 JAN 0650	227	.01	.00	.00	0.
1 JAN 1825	78	.00	.00	.00	0.	*	2 JAN 0655	228	.01	.00	.00	0.
1 JAN 1830	79	.00	.00	.00	0.	*	2 JAN 0700	229	.01	.00	.00	0.
1 JAN 1835	80	.00	.00	.00	0.	*	2 JAN 0705	230	.01	.00	.00	0.
1 JAN 1840	81	.00	.00	.00	0.	*	2 JAN 0710	231	.01	.00	.00	0.
1 JAN 1845	82	.00	.00	.00	0.	*	2 JAN 0715	232	.01	.00	.00	0.
1 JAN 1850	83	.00	.00	.00	0.	*	2 JAN 0720	233	.01	.00	.00	0.
1 JAN 1855	84	.00	.00	.00	0.	*	2 JAN 0725	234	.00	.00	.00	0.
1 JAN 1900	85	.00	.00	.00	0.	*	2 JAN 0730	235	.00	.00	.00	0.
1 JAN 1905	86	.00	.00	.00	0.	*	2 JAN 0735	236	.00	.00	.00	0.
1 JAN 1910	87	.00	.00	.00	0.	*	2 JAN 0740	237	.00	.00	.00	0.
1 JAN 1915	88	.00	.00	.00	0.	*	2 JAN 0745	238	.00	.00	.00	0.
1 JAN 1920	89	.00	.00	.00	0.	*	2 JAN 0750	239	.00	.00	.00	0.
1 JAN 1925	90	.00	.00	.00	0.	*	2 JAN 0755	240	.00	.00	.00	0.
1 JAN 1930	91	.00	.00	.00	0.	*	2 JAN 0800	241	.00	.00	.00	0.
1 JAN 1935	92	.00	.00	.00	0.	*	2 JAN 0805	242	.00	.00	.00	0.
1 JAN 1940	93	.00	.00	.00	0.	*	2 JAN 0810	243	.00	.00	.00	0.
1 JAN 1945	94	.00	.00	.00	0.	*	2 JAN 0815	244	.00	.00	.00	0.
1 JAN 1950	95	.00	.00	.00	0.	*	2 JAN 0820	245	.00	.00	.00	0.
1 JAN 1955	96	.00	.00	.00	0.	*	2 JAN 0825	246	.00	.00	.00	0.
1 JAN 2000	97	.00	.00	.00	0.	*	2 JAN 0830	247	.00	.00	.00	0.
1 JAN 2005	98	.00	.00	.00	0.	*	2 JAN 0835	248	.00	.00	.00	0.

1 JAN 2010	99	.00	.00	.00	0.	*	2 JAN 0840	249	.00	.00	.00	0.
1 JAN 2015	100	.00	.00	.00	0.	*	2 JAN 0845	250	.00	.00	.00	0.
1 JAN 2020	101	.00	.00	.00	0.	*	2 JAN 0850	251	.00	.00	.00	0.
1 JAN 2025	102	.00	.00	.00	0.	*	2 JAN 0855	252	.00	.00	.00	0.
1 JAN 2030	103	.00	.00	.00	0.	*	2 JAN 0900	253	.00	.00	.00	0.
1 JAN 2035	104	.00	.00	.00	0.	*	2 JAN 0905	254	.00	.00	.00	0.
1 JAN 2040	105	.00	.00	.00	0.	*	2 JAN 0910	255	.00	.00	.00	0.
1 JAN 2045	106	.00	.00	.00	0.	*	2 JAN 0915	256	.00	.00	.00	0.
1 JAN 2050	107	.00	.00	.00	0.	*	2 JAN 0920	257	.00	.00	.00	0.
1 JAN 2055	108	.00	.00	.00	0.	*	2 JAN 0925	258	.00	.00	.00	0.
1 JAN 2100	109	.00	.00	.00	0.	*	2 JAN 0930	259	.00	.00	.00	0.
1 JAN 2105	110	.00	.00	.00	0.	*	2 JAN 0935	260	.00	.00	.00	0.
1 JAN 2110	111	.00	.00	.00	0.	*	2 JAN 0940	261	.00	.00	.00	0.
1 JAN 2115	112	.00	.00	.00	0.	*	2 JAN 0945	262	.00	.00	.00	0.
1 JAN 2120	113	.01	.01	.00	0.	*	2 JAN 0950	263	.00	.00	.00	0.
1 JAN 2125	114	.01	.01	.00	0.	*	2 JAN 0955	264	.00	.00	.00	0.
1 JAN 2130	115	.01	.01	.00	0.	*	2 JAN 1000	265	.00	.00	.00	0.
1 JAN 2135	116	.01	.01	.00	0.	*	2 JAN 1005	266	.00	.00	.00	0.
1 JAN 2140	117	.01	.01	.00	0.	*	2 JAN 1010	267	.00	.00	.00	0.
1 JAN 2145	118	.01	.01	.00	0.	*	2 JAN 1015	268	.00	.00	.00	0.
1 JAN 2150	119	.01	.01	.00	0.	*	2 JAN 1020	269	.00	.00	.00	0.
1 JAN 2155	120	.01	.01	.00	0.	*	2 JAN 1025	270	.00	.00	.00	0.
1 JAN 2200	121	.01	.01	.00	0.	*	2 JAN 1030	271	.00	.00	.00	0.
1 JAN 2205	122	.01	.01	.00	0.	*	2 JAN 1035	272	.00	.00	.00	0.
1 JAN 2210	123	.01	.01	.00	0.	*	2 JAN 1040	273	.00	.00	.00	0.
1 JAN 2215	124	.01	.01	.00	0.	*	2 JAN 1045	274	.00	.00	.00	0.
1 JAN 2220	125	.01	.01	.00	0.	*	2 JAN 1050	275	.00	.00	.00	0.
1 JAN 2225	126	.01	.01	.00	0.	*	2 JAN 1055	276	.00	.00	.00	0.
1 JAN 2230	127	.01	.01	.00	0.	*	2 JAN 1100	277	.00	.00	.00	0.
1 JAN 2235	128	.01	.01	.00	0.	*	2 JAN 1105	278	.00	.00	.00	0.
1 JAN 2240	129	.01	.01	.00	0.	*	2 JAN 1110	279	.00	.00	.00	0.
1 JAN 2245	130	.01	.01	.00	0.	*	2 JAN 1115	280	.00	.00	.00	0.
1 JAN 2250	131	.01	.01	.00	0.	*	2 JAN 1120	281	.00	.00	.00	0.
1 JAN 2255	132	.01	.01	.00	0.	*	2 JAN 1125	282	.00	.00	.00	0.
1 JAN 2300	133	.01	.01	.00	0.	*	2 JAN 1130	283	.00	.00	.00	0.
1 JAN 2305	134	.01	.01	.00	0.	*	2 JAN 1135	284	.00	.00	.00	0.
1 JAN 2310	135	.01	.01	.00	0.	*	2 JAN 1140	285	.00	.00	.00	0.
1 JAN 2315	136	.01	.01	.00	0.	*	2 JAN 1145	286	.00	.00	.00	0.
1 JAN 2320	137	.01	.01	.00	0.	*	2 JAN 1150	287	.00	.00	.00	0.
1 JAN 2325	138	.01	.01	.00	0.	*	2 JAN 1155	288	.00	.00	.00	0.
1 JAN 2330	139	.01	.01	.00	0.	*	2 JAN 1200	289	.00	.00	.00	0.
1 JAN 2335	140	.01	.01	.00	0.	*	2 JAN 1205	290	.00	.00	.00	0.
1 JAN 2340	141	.01	.01	.00	0.	*	2 JAN 1210	291	.00	.00	.00	0.
1 JAN 2345	142	.01	.01	.00	0.	*	2 JAN 1215	292	.00	.00	.00	0.
1 JAN 2350	143	.01	.01	.00	0.	*	2 JAN 1220	293	.00	.00	.00	0.
1 JAN 2355	144	.01	.01	.00	0.	*	2 JAN 1225	294	.00	.00	.00	0.
2 JAN 0000	145	.01	.01	.00	0.	*	2 JAN 1230	295	.00	.00	.00	0.
2 JAN 0005	146	.01	.01	.00	0.	*	2 JAN 1235	296	.00	.00	.00	0.
2 JAN 0010	147	.01	.01	.00	0.	*	2 JAN 1240	297	.00	.00	.00	0.
2 JAN 0015	148	.01	.01	.00	0.	*	2 JAN 1245	298	.00	.00	.00	0.
2 JAN 0020	149	.01	.01	.00	0.	*	2 JAN 1250	299	.00	.00	.00	0.
2 JAN 0025	150	.01	.01	.00	0.	*	2 JAN 1255	300	.00	.00	.00	0.
						*						

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TOTAL RAINFALL = 2.49, TOTAL LOSS = 2.17, TOTAL EXCESS = .32

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
5.	16.08	(CFS)	1.	0.	0.	0.

(INCHES) .285 .324 .324 .324
(AC-FT) 0. 0. 0. 0.

CUMULATIVE AREA = .02 SQ MI

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            **************
            *            *
123 KK      *        8   *
            *            *
            **************
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SUBBASIN RUNOFF DATA

124 BA SUBBASIN CHARACTERISTICS
TAREA .01 SUBBASIN AREA

PRECIPITATION DATA

27 PB STORM 2.49 BASIN TOTAL PRECIPITATION

27 PI INCREMENTAL PRECIPITATION PATTERN

.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.02	.02	.02	.02	.02	.02	.02
.02	.02	.02	.03	.03	.03	.03	.04	.05	.07
.10	.35	.06	.04	.03	.02	.02	.02	.02	.02
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00			

125 LS SCS LOSS RATE
STRTL .82 INITIAL ABSTRACTION
CRVNBR 71.00 CURVE NUMBER

RTIMP .00 PERCENT IMPERVIOUS AREA

126 UD SCS DIMENSIONLESS UNITGRAPH
TLAG .13 LAG

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WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

UNIT HYDROGRAPH
10 END-OF-PERIOD ORDINATES
13. 29. 20. 9. 4. 2. 1. 0. 0. 0.

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HYDROGRAPH AT STATION 8

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DA MON HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	DA MON HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1 JAN 1200	1	.00	.00	.00	0.	2 JAN 0030	151	.01	.01	.00	0.
1 JAN 1205	2	.00	.00	.00	0.	2 JAN 0035	152	.01	.01	.00	0.
1 JAN 1210	3	.00	.00	.00	0.	2 JAN 0040	153	.01	.01	.00	0.
1 JAN 1215	4	.00	.00	.00	0.	2 JAN 0045	154	.01	.01	.00	0.
1 JAN 1220	5	.00	.00	.00	0.	2 JAN 0050	155	.01	.01	.00	0.
1 JAN 1225	6	.00	.00	.00	0.	2 JAN 0055	156	.01	.01	.00	0.
1 JAN 1230	7	.00	.00	.00	0.	2 JAN 0100	157	.01	.01	.00	0.
1 JAN 1235	8	.00	.00	.00	0.	2 JAN 0105	158	.01	.01	.00	0.
1 JAN 1240	9	.00	.00	.00	0.	2 JAN 0110	159	.01	.01	.00	0.
1 JAN 1245	10	.00	.00	.00	0.	2 JAN 0115	160	.01	.01	.00	0.
1 JAN 1250	11	.00	.00	.00	0.	2 JAN 0120	161	.01	.01	.00	0.
1 JAN 1255	12	.00	.00	.00	0.	2 JAN 0125	162	.01	.01	.00	0.
1 JAN 1300	13	.00	.00	.00	0.	2 JAN 0130	163	.01	.01	.00	0.
1 JAN 1305	14	.00	.00	.00	0.	2 JAN 0135	164	.01	.01	.00	0.
1 JAN 1310	15	.00	.00	.00	0.	2 JAN 0140	165	.01	.01	.00	0.
1 JAN 1315	16	.00	.00	.00	0.	2 JAN 0145	166	.01	.01	.00	0.
1 JAN 1320	17	.00	.00	.00	0.	2 JAN 0150	167	.01	.01	.00	0.
1 JAN 1325	18	.00	.00	.00	0.	2 JAN 0155	168	.01	.01	.00	0.
1 JAN 1330	19	.00	.00	.00	0.	2 JAN 0200	169	.01	.01	.00	0.
1 JAN 1335	20	.00	.00	.00	0.	2 JAN 0205	170	.01	.01	.00	0.
1 JAN 1340	21	.00	.00	.00	0.	2 JAN 0210	171	.01	.01	.00	0.
1 JAN 1345	22	.00	.00	.00	0.	2 JAN 0215	172	.01	.01	.00	0.
1 JAN 1350	23	.00	.00	.00	0.	2 JAN 0220	173	.01	.01	.00	0.
1 JAN 1355	24	.00	.00	.00	0.	2 JAN 0225	174	.01	.01	.00	0.
1 JAN 1400	25	.00	.00	.00	0.	2 JAN 0230	175	.02	.01	.00	0.
1 JAN 1405	26	.00	.00	.00	0.	2 JAN 0235	176	.02	.01	.00	0.
1 JAN 1410	27	.00	.00	.00	0.	2 JAN 0240	177	.02	.02	.00	0.
1 JAN 1415	28	.00	.00	.00	0.	2 JAN 0245	178	.02	.02	.00	0.
1 JAN 1420	29	.00	.00	.00	0.	2 JAN 0250	179	.02	.02	.00	0.
1 JAN 1425	30	.00	.00	.00	0.	2 JAN 0255	180	.02	.02	.00	0.
1 JAN 1430	31	.00	.00	.00	0.	2 JAN 0300	181	.02	.02	.00	0.
1 JAN 1435	32	.00	.00	.00	0.	2 JAN 0305	182	.02	.02	.00	0.
1 JAN 1440	33	.00	.00	.00	0.	2 JAN 0310	183	.02	.02	.00	0.
1 JAN 1445	34	.00	.00	.00	0.	2 JAN 0315	184	.02	.02	.00	0.
1 JAN 1450	35	.00	.00	.00	0.	2 JAN 0320	185	.03	.02	.00	0.
1 JAN 1455	36	.00	.00	.00	0.	2 JAN 0325	186	.03	.02	.00	0.
1 JAN 1500	37	.00	.00	.00	0.	2 JAN 0330	187	.03	.03	.00	0.
1 JAN 1505	38	.00	.00	.00	0.	2 JAN 0335	188	.03	.03	.01	0.
1 JAN 1510	39	.00	.00	.00	0.	2 JAN 0340	189	.04	.03	.01	0.

1 JAN 1515	40	.00	.00	.00	0.	*	2 JAN 0345	190	.05	.04	.01	1.
1 JAN 1520	41	.00	.00	.00	0.	*	2 JAN 0350	191	.07	.05	.01	1.
1 JAN 1525	42	.00	.00	.00	0.	*	2 JAN 0355	192	.10	.07	.02	1.
1 JAN 1530	43	.00	.00	.00	0.	*	2 JAN 0400	193	.35	.24	.11	2.
1 JAN 1535	44	.00	.00	.00	0.	*	2 JAN 0405	194	.06	.04	.02	4.
1 JAN 1540	45	.00	.00	.00	0.	*	2 JAN 0410	195	.04	.02	.01	3.
1 JAN 1545	46	.00	.00	.00	0.	*	2 JAN 0415	196	.03	.02	.01	2.
1 JAN 1550	47	.00	.00	.00	0.	*	2 JAN 0420	197	.02	.01	.01	1.
1 JAN 1555	48	.00	.00	.00	0.	*	2 JAN 0425	198	.02	.01	.01	1.
1 JAN 1600	49	.00	.00	.00	0.	*	2 JAN 0430	199	.02	.01	.01	1.
1 JAN 1605	50	.00	.00	.00	0.	*	2 JAN 0435	200	.02	.01	.01	1.
1 JAN 1610	51	.00	.00	.00	0.	*	2 JAN 0440	201	.02	.01	.01	1.
1 JAN 1615	52	.00	.00	.00	0.	*	2 JAN 0445	202	.01	.01	.01	1.
1 JAN 1620	53	.00	.00	.00	0.	*	2 JAN 0450	203	.01	.01	.01	0.
1 JAN 1625	54	.00	.00	.00	0.	*	2 JAN 0455	204	.01	.01	.01	0.
1 JAN 1630	55	.00	.00	.00	0.	*	2 JAN 0500	205	.01	.01	.01	0.
1 JAN 1635	56	.00	.00	.00	0.	*	2 JAN 0505	206	.01	.01	.00	0.
1 JAN 1640	57	.00	.00	.00	0.	*	2 JAN 0510	207	.01	.01	.00	0.
1 JAN 1645	58	.00	.00	.00	0.	*	2 JAN 0515	208	.01	.01	.00	0.
1 JAN 1650	59	.00	.00	.00	0.	*	2 JAN 0520	209	.01	.01	.00	0.
1 JAN 1655	60	.00	.00	.00	0.	*	2 JAN 0525	210	.01	.01	.00	0.
1 JAN 1700	61	.00	.00	.00	0.	*	2 JAN 0530	211	.01	.01	.00	0.
1 JAN 1705	62	.00	.00	.00	0.	*	2 JAN 0535	212	.01	.01	.00	0.
1 JAN 1710	63	.00	.00	.00	0.	*	2 JAN 0540	213	.01	.01	.00	0.
1 JAN 1715	64	.00	.00	.00	0.	*	2 JAN 0545	214	.01	.00	.00	0.
1 JAN 1720	65	.00	.00	.00	0.	*	2 JAN 0550	215	.01	.00	.00	0.
1 JAN 1725	66	.00	.00	.00	0.	*	2 JAN 0555	216	.01	.00	.00	0.
1 JAN 1730	67	.00	.00	.00	0.	*	2 JAN 0600	217	.01	.00	.00	0.
1 JAN 1735	68	.00	.00	.00	0.	*	2 JAN 0605	218	.01	.00	.00	0.
1 JAN 1740	69	.00	.00	.00	0.	*	2 JAN 0610	219	.01	.00	.00	0.
1 JAN 1745	70	.00	.00	.00	0.	*	2 JAN 0615	220	.01	.00	.00	0.
1 JAN 1750	71	.00	.00	.00	0.	*	2 JAN 0620	221	.01	.00	.00	0.
1 JAN 1755	72	.00	.00	.00	0.	*	2 JAN 0625	222	.01	.00	.00	0.
1 JAN 1800	73	.00	.00	.00	0.	*	2 JAN 0630	223	.01	.00	.00	0.
1 JAN 1805	74	.00	.00	.00	0.	*	2 JAN 0635	224	.01	.00	.00	0.
1 JAN 1810	75	.00	.00	.00	0.	*	2 JAN 0640	225	.01	.00	.00	0.
1 JAN 1815	76	.00	.00	.00	0.	*	2 JAN 0645	226	.01	.00	.00	0.
1 JAN 1820	77	.00	.00	.00	0.	*	2 JAN 0650	227	.01	.00	.00	0.
1 JAN 1825	78	.00	.00	.00	0.	*	2 JAN 0655	228	.01	.00	.00	0.
1 JAN 1830	79	.00	.00	.00	0.	*	2 JAN 0700	229	.01	.00	.00	0.
1 JAN 1835	80	.00	.00	.00	0.	*	2 JAN 0705	230	.01	.00	.00	0.
1 JAN 1840	81	.00	.00	.00	0.	*	2 JAN 0710	231	.01	.00	.00	0.
1 JAN 1845	82	.00	.00	.00	0.	*	2 JAN 0715	232	.01	.00	.00	0.
1 JAN 1850	83	.00	.00	.00	0.	*	2 JAN 0720	233	.01	.00	.00	0.
1 JAN 1855	84	.00	.00	.00	0.	*	2 JAN 0725	234	.00	.00	.00	0.
1 JAN 1900	85	.00	.00	.00	0.	*	2 JAN 0730	235	.00	.00	.00	0.
1 JAN 1905	86	.00	.00	.00	0.	*	2 JAN 0735	236	.00	.00	.00	0.
1 JAN 1910	87	.00	.00	.00	0.	*	2 JAN 0740	237	.00	.00	.00	0.
1 JAN 1915	88	.00	.00	.00	0.	*	2 JAN 0745	238	.00	.00	.00	0.
1 JAN 1920	89	.00	.00	.00	0.	*	2 JAN 0750	239	.00	.00	.00	0.
1 JAN 1925	90	.00	.00	.00	0.	*	2 JAN 0755	240	.00	.00	.00	0.
1 JAN 1930	91	.00	.00	.00	0.	*	2 JAN 0800	241	.00	.00	.00	0.
1 JAN 1935	92	.00	.00	.00	0.	*	2 JAN 0805	242	.00	.00	.00	0.
1 JAN 1940	93	.00	.00	.00	0.	*	2 JAN 0810	243	.00	.00	.00	0.
1 JAN 1945	94	.00	.00	.00	0.	*	2 JAN 0815	244	.00	.00	.00	0.
1 JAN 1950	95	.00	.00	.00	0.	*	2 JAN 0820	245	.00	.00	.00	0.
1 JAN 1955	96	.00	.00	.00	0.	*	2 JAN 0825	246	.00	.00	.00	0.
1 JAN 2000	97	.00	.00	.00	0.	*	2 JAN 0830	247	.00	.00	.00	0.
1 JAN 2005	98	.00	.00	.00	0.	*	2 JAN 0835	248	.00	.00	.00	0.
1 JAN 2010	99	.00	.00	.00	0.	*	2 JAN 0840	249	.00	.00	.00	0.

1 JAN 2015	100	.00	.00	.00	0.	*	2 JAN 0845	250	.00	.00	.00	0.
1 JAN 2020	101	.00	.00	.00	0.	*	2 JAN 0850	251	.00	.00	.00	0.
1 JAN 2025	102	.00	.00	.00	0.	*	2 JAN 0855	252	.00	.00	.00	0.
1 JAN 2030	103	.00	.00	.00	0.	*	2 JAN 0900	253	.00	.00	.00	0.
1 JAN 2035	104	.00	.00	.00	0.	*	2 JAN 0905	254	.00	.00	.00	0.
1 JAN 2040	105	.00	.00	.00	0.	*	2 JAN 0910	255	.00	.00	.00	0.
1 JAN 2045	106	.00	.00	.00	0.	*	2 JAN 0915	256	.00	.00	.00	0.
1 JAN 2050	107	.00	.00	.00	0.	*	2 JAN 0920	257	.00	.00	.00	0.
1 JAN 2055	108	.00	.00	.00	0.	*	2 JAN 0925	258	.00	.00	.00	0.
1 JAN 2100	109	.00	.00	.00	0.	*	2 JAN 0930	259	.00	.00	.00	0.
1 JAN 2105	110	.00	.00	.00	0.	*	2 JAN 0935	260	.00	.00	.00	0.
1 JAN 2110	111	.00	.00	.00	0.	*	2 JAN 0940	261	.00	.00	.00	0.
1 JAN 2115	112	.00	.00	.00	0.	*	2 JAN 0945	262	.00	.00	.00	0.
1 JAN 2120	113	.01	.01	.00	0.	*	2 JAN 0950	263	.00	.00	.00	0.
1 JAN 2125	114	.01	.01	.00	0.	*	2 JAN 0955	264	.00	.00	.00	0.
1 JAN 2130	115	.01	.01	.00	0.	*	2 JAN 1000	265	.00	.00	.00	0.
1 JAN 2135	116	.01	.01	.00	0.	*	2 JAN 1005	266	.00	.00	.00	0.
1 JAN 2140	117	.01	.01	.00	0.	*	2 JAN 1010	267	.00	.00	.00	0.
1 JAN 2145	118	.01	.01	.00	0.	*	2 JAN 1015	268	.00	.00	.00	0.
1 JAN 2150	119	.01	.01	.00	0.	*	2 JAN 1020	269	.00	.00	.00	0.
1 JAN 2155	120	.01	.01	.00	0.	*	2 JAN 1025	270	.00	.00	.00	0.
1 JAN 2200	121	.01	.01	.00	0.	*	2 JAN 1030	271	.00	.00	.00	0.
1 JAN 2205	122	.01	.01	.00	0.	*	2 JAN 1035	272	.00	.00	.00	0.
1 JAN 2210	123	.01	.01	.00	0.	*	2 JAN 1040	273	.00	.00	.00	0.
1 JAN 2215	124	.01	.01	.00	0.	*	2 JAN 1045	274	.00	.00	.00	0.
1 JAN 2220	125	.01	.01	.00	0.	*	2 JAN 1050	275	.00	.00	.00	0.
1 JAN 2225	126	.01	.01	.00	0.	*	2 JAN 1055	276	.00	.00	.00	0.
1 JAN 2230	127	.01	.01	.00	0.	*	2 JAN 1100	277	.00	.00	.00	0.
1 JAN 2235	128	.01	.01	.00	0.	*	2 JAN 1105	278	.00	.00	.00	0.
1 JAN 2240	129	.01	.01	.00	0.	*	2 JAN 1110	279	.00	.00	.00	0.
1 JAN 2245	130	.01	.01	.00	0.	*	2 JAN 1115	280	.00	.00	.00	0.
1 JAN 2250	131	.01	.01	.00	0.	*	2 JAN 1120	281	.00	.00	.00	0.
1 JAN 2255	132	.01	.01	.00	0.	*	2 JAN 1125	282	.00	.00	.00	0.
1 JAN 2300	133	.01	.01	.00	0.	*	2 JAN 1130	283	.00	.00	.00	0.
1 JAN 2305	134	.01	.01	.00	0.	*	2 JAN 1135	284	.00	.00	.00	0.
1 JAN 2310	135	.01	.01	.00	0.	*	2 JAN 1140	285	.00	.00	.00	0.
1 JAN 2315	136	.01	.01	.00	0.	*	2 JAN 1145	286	.00	.00	.00	0.
1 JAN 2320	137	.01	.01	.00	0.	*	2 JAN 1150	287	.00	.00	.00	0.
1 JAN 2325	138	.01	.01	.00	0.	*	2 JAN 1155	288	.00	.00	.00	0.
1 JAN 2330	139	.01	.01	.00	0.	*	2 JAN 1200	289	.00	.00	.00	0.
1 JAN 2335	140	.01	.01	.00	0.	*	2 JAN 1205	290	.00	.00	.00	0.
1 JAN 2340	141	.01	.01	.00	0.	*	2 JAN 1210	291	.00	.00	.00	0.
1 JAN 2345	142	.01	.01	.00	0.	*	2 JAN 1215	292	.00	.00	.00	0.
1 JAN 2350	143	.01	.01	.00	0.	*	2 JAN 1220	293	.00	.00	.00	0.
1 JAN 2355	144	.01	.01	.00	0.	*	2 JAN 1225	294	.00	.00	.00	0.
2 JAN 0000	145	.01	.01	.00	0.	*	2 JAN 1230	295	.00	.00	.00	0.
2 JAN 0005	146	.01	.01	.00	0.	*	2 JAN 1235	296	.00	.00	.00	0.
2 JAN 0010	147	.01	.01	.00	0.	*	2 JAN 1240	297	.00	.00	.00	0.
2 JAN 0015	148	.01	.01	.00	0.	*	2 JAN 1245	298	.00	.00	.00	0.
2 JAN 0020	149	.01	.01	.00	0.	*	2 JAN 1250	299	.00	.00	.00	0.
2 JAN 0025	150	.01	.01	.00	0.	*	2 JAN 1255	300	.00	.00	.00	0.
						*						

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TOTAL RAINFALL = 2.49, TOTAL LOSS = 2.01, TOTAL EXCESS = .49

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
4.	16.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.423	.488	.488	.488

(AC-FT) 0. 0. 0. 0.

CUMULATIVE AREA = .01 SQ MI

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         *            *
127 KK   *   COMBINE  *
         *            *
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COMBINE BASINS 5,7,8, AND OUTFLOW FROM EAST SIDE OF TRACKS

129 HC HYDROGRAPH COMBINATION

ICOMP 4 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION COMBINE

SUM OF 4 HYDROGRAPHS

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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 JAN 1200	1	0.	1 JAN 1815	76	0.	2 JAN 0030	151	0.	2 JAN 0645	226	2.
1 JAN 1205	2	0.	1 JAN 1820	77	0.	2 JAN 0035	152	0.	2 JAN 0650	227	2.
1 JAN 1210	3	0.	1 JAN 1825	78	0.	2 JAN 0040	153	0.	2 JAN 0655	228	2.
1 JAN 1215	4	0.	1 JAN 1830	79	0.	2 JAN 0045	154	0.	2 JAN 0700	229	2.
1 JAN 1220	5	0.	1 JAN 1835	80	0.	2 JAN 0050	155	0.	2 JAN 0705	230	2.
1 JAN 1225	6	0.	1 JAN 1840	81	0.	2 JAN 0055	156	0.	2 JAN 0710	231	2.
1 JAN 1230	7	0.	1 JAN 1845	82	0.	2 JAN 0100	157	0.	2 JAN 0715	232	2.
1 JAN 1235	8	0.	1 JAN 1850	83	0.	2 JAN 0105	158	0.	2 JAN 0720	233	2.
1 JAN 1240	9	0.	1 JAN 1855	84	0.	2 JAN 0110	159	0.	2 JAN 0725	234	2.
1 JAN 1245	10	0.	1 JAN 1900	85	0.	2 JAN 0115	160	0.	2 JAN 0730	235	2.
1 JAN 1250	11	0.	1 JAN 1905	86	0.	2 JAN 0120	161	0.	2 JAN 0735	236	2.
1 JAN 1255	12	0.	1 JAN 1910	87	0.	2 JAN 0125	162	0.	2 JAN 0740	237	2.
1 JAN 1300	13	0.	1 JAN 1915	88	0.	2 JAN 0130	163	0.	2 JAN 0745	238	2.
1 JAN 1305	14	0.	1 JAN 1920	89	0.	2 JAN 0135	164	0.	2 JAN 0750	239	2.
1 JAN 1310	15	0.	1 JAN 1925	90	0.	2 JAN 0140	165	0.	2 JAN 0755	240	2.
1 JAN 1315	16	0.	1 JAN 1930	91	0.	2 JAN 0145	166	0.	2 JAN 0800	241	2.
1 JAN 1320	17	0.	1 JAN 1935	92	0.	2 JAN 0150	167	0.	2 JAN 0805	242	2.
1 JAN 1325	18	0.	1 JAN 1940	93	0.	2 JAN 0155	168	0.	2 JAN 0810	243	2.
1 JAN 1330	19	0.	1 JAN 1945	94	0.	2 JAN 0200	169	0.	2 JAN 0815	244	2.
1 JAN 1335	20	0.	1 JAN 1950	95	0.	2 JAN 0205	170	0.	2 JAN 0820	245	2.
1 JAN 1340	21	0.	1 JAN 1955	96	0.	2 JAN 0210	171	0.	2 JAN 0825	246	2.
1 JAN 1345	22	0.	1 JAN 2000	97	0.	2 JAN 0215	172	0.	2 JAN 0830	247	2.
1 JAN 1350	23	0.	1 JAN 2005	98	0.	2 JAN 0220	173	0.	2 JAN 0835	248	2.
1 JAN 1355	24	0.	1 JAN 2010	99	0.	2 JAN 0225	174	0.	2 JAN 0840	249	2.
1 JAN 1400	25	0.	1 JAN 2015	100	0.	2 JAN 0230	175	0.	2 JAN 0845	250	2.
1 JAN 1405	26	0.	1 JAN 2020	101	0.	2 JAN 0235	176	0.	2 JAN 0850	251	2.
1 JAN 1410	27	0.	1 JAN 2025	102	0.	2 JAN 0240	177	0.	2 JAN 0855	252	2.
1 JAN 1415	28	0.	1 JAN 2030	103	0.	2 JAN 0245	178	1.	2 JAN 0900	253	2.
1 JAN 1420	29	0.	1 JAN 2035	104	0.	2 JAN 0250	179	1.	2 JAN 0905	254	2.

1 JAN 1425	30	0.	*	1 JAN 2040	105	0.	*	2 JAN 0255	180	1.	*	2 JAN 0910	255	2.
1 JAN 1430	31	0.	*	1 JAN 2045	106	0.	*	2 JAN 0300	181	1.	*	2 JAN 0915	256	2.
1 JAN 1435	32	0.	*	1 JAN 2050	107	0.	*	2 JAN 0305	182	1.	*	2 JAN 0920	257	2.
1 JAN 1440	33	0.	*	1 JAN 2055	108	0.	*	2 JAN 0310	183	1.	*	2 JAN 0925	258	2.
1 JAN 1445	34	0.	*	1 JAN 2100	109	0.	*	2 JAN 0315	184	1.	*	2 JAN 0930	259	2.
1 JAN 1450	35	0.	*	1 JAN 2105	110	0.	*	2 JAN 0320	185	1.	*	2 JAN 0935	260	2.
1 JAN 1455	36	0.	*	1 JAN 2110	111	0.	*	2 JAN 0325	186	2.	*	2 JAN 0940	261	1.
1 JAN 1500	37	0.	*	1 JAN 2115	112	0.	*	2 JAN 0330	187	2.	*	2 JAN 0945	262	1.
1 JAN 1505	38	0.	*	1 JAN 2120	113	0.	*	2 JAN 0335	188	2.	*	2 JAN 0950	263	1.
1 JAN 1510	39	0.	*	1 JAN 2125	114	0.	*	2 JAN 0340	189	3.	*	2 JAN 0955	264	1.
1 JAN 1515	40	0.	*	1 JAN 2130	115	0.	*	2 JAN 0345	190	3.	*	2 JAN 1000	265	1.
1 JAN 1520	41	0.	*	1 JAN 2135	116	0.	*	2 JAN 0350	191	5.	*	2 JAN 1005	266	1.
1 JAN 1525	42	0.	*	1 JAN 2140	117	0.	*	2 JAN 0355	192	6.	*	2 JAN 1010	267	1.
1 JAN 1530	43	0.	*	1 JAN 2145	118	0.	*	2 JAN 0400	193	15.	*	2 JAN 1015	268	1.
1 JAN 1535	44	0.	*	1 JAN 2150	119	0.	*	2 JAN 0405	194	20.	*	2 JAN 1020	269	1.
1 JAN 1540	45	0.	*	1 JAN 2155	120	0.	*	2 JAN 0410	195	17.	*	2 JAN 1025	270	1.
1 JAN 1545	46	0.	*	1 JAN 2200	121	0.	*	2 JAN 0415	196	14.	*	2 JAN 1030	271	1.
1 JAN 1550	47	0.	*	1 JAN 2205	122	0.	*	2 JAN 0420	197	13.	*	2 JAN 1035	272	1.
1 JAN 1555	48	0.	*	1 JAN 2210	123	0.	*	2 JAN 0425	198	12.	*	2 JAN 1040	273	1.
1 JAN 1600	49	0.	*	1 JAN 2215	124	0.	*	2 JAN 0430	199	12.	*	2 JAN 1045	274	1.
1 JAN 1605	50	0.	*	1 JAN 2220	125	0.	*	2 JAN 0435	200	11.	*	2 JAN 1050	275	1.
1 JAN 1610	51	0.	*	1 JAN 2225	126	0.	*	2 JAN 0440	201	11.	*	2 JAN 1055	276	1.
1 JAN 1615	52	0.	*	1 JAN 2230	127	0.	*	2 JAN 0445	202	11.	*	2 JAN 1100	277	1.
1 JAN 1620	53	0.	*	1 JAN 2235	128	0.	*	2 JAN 0450	203	11.	*	2 JAN 1105	278	1.
1 JAN 1625	54	0.	*	1 JAN 2240	129	0.	*	2 JAN 0455	204	10.	*	2 JAN 1110	279	1.
1 JAN 1630	55	0.	*	1 JAN 2245	130	0.	*	2 JAN 0500	205	10.	*	2 JAN 1115	280	1.
1 JAN 1635	56	0.	*	1 JAN 2250	131	0.	*	2 JAN 0505	206	9.	*	2 JAN 1120	281	1.
1 JAN 1640	57	0.	*	1 JAN 2255	132	0.	*	2 JAN 0510	207	9.	*	2 JAN 1125	282	1.
1 JAN 1645	58	0.	*	1 JAN 2300	133	0.	*	2 JAN 0515	208	8.	*	2 JAN 1130	283	1.
1 JAN 1650	59	0.	*	1 JAN 2305	134	0.	*	2 JAN 0520	209	8.	*	2 JAN 1135	284	1.
1 JAN 1655	60	0.	*	1 JAN 2310	135	0.	*	2 JAN 0525	210	7.	*	2 JAN 1140	285	1.
1 JAN 1700	61	0.	*	1 JAN 2315	136	0.	*	2 JAN 0530	211	7.	*	2 JAN 1145	286	1.
1 JAN 1705	62	0.	*	1 JAN 2320	137	0.	*	2 JAN 0535	212	6.	*	2 JAN 1150	287	1.
1 JAN 1710	63	0.	*	1 JAN 2325	138	0.	*	2 JAN 0540	213	6.	*	2 JAN 1155	288	1.
1 JAN 1715	64	0.	*	1 JAN 2330	139	0.	*	2 JAN 0545	214	5.	*	2 JAN 1200	289	1.
1 JAN 1720	65	0.	*	1 JAN 2335	140	0.	*	2 JAN 0550	215	5.	*	2 JAN 1205	290	1.
1 JAN 1725	66	0.	*	1 JAN 2340	141	0.	*	2 JAN 0555	216	4.	*	2 JAN 1210	291	1.
1 JAN 1730	67	0.	*	1 JAN 2345	142	0.	*	2 JAN 0600	217	4.	*	2 JAN 1215	292	1.
1 JAN 1735	68	0.	*	1 JAN 2350	143	0.	*	2 JAN 0605	218	4.	*	2 JAN 1220	293	0.
1 JAN 1740	69	0.	*	1 JAN 2355	144	0.	*	2 JAN 0610	219	3.	*	2 JAN 1225	294	0.
1 JAN 1745	70	0.	*	2 JAN 0000	145	0.	*	2 JAN 0615	220	3.	*	2 JAN 1230	295	0.
1 JAN 1750	71	0.	*	2 JAN 0005	146	0.	*	2 JAN 0620	221	3.	*	2 JAN 1235	296	0.
1 JAN 1755	72	0.	*	2 JAN 0010	147	0.	*	2 JAN 0625	222	3.	*	2 JAN 1240	297	0.
1 JAN 1800	73	0.	*	2 JAN 0015	148	0.	*	2 JAN 0630	223	3.	*	2 JAN 1245	298	0.
1 JAN 1805	74	0.	*	2 JAN 0020	149	0.	*	2 JAN 0635	224	3.	*	2 JAN 1250	299	0.
1 JAN 1810	75	0.	*	2 JAN 0025	150	0.	*	2 JAN 0640	225	3.	*	2 JAN 1255	300	0.
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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
20.	16.08	(CFS)	5.	1.	1.	1.
		(INCHES)	.415	.481	.481	.481
		(AC-FT)	2.	3.	3.	3.

CUMULATIVE AREA = .11 SQ MI

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          *            *
130 KK    *   DETAIN   *
          *            *
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DETAIN BASINS 5,7,8, AND OUTFLOW FROM EAST SIDE OF TRACKS

HYDROGRAPH ROUTING DATA

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132 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

133 SA              AREA          .0        .3       2.5       8.3       8.3

134 SQ          DISCHARGE         0.        0.        0.        0.       20.

135 SE          ELEVATION      51.00     52.00     54.00     56.00     56.10
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COMPUTED STORAGE-ELEVATION DATA

STORAGE	.00	.10	2.57	12.84	13.67
ELEVATION	51.00	52.00	54.00	56.00	56.10

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HYDROGRAPH AT STATION DETAIN

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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 JAN 1200 1	0.	2.6	54.0	1 JAN 2020 101	0.	2.6	54.0	2 JAN 0440 201	0.	3.6	54.2
1 JAN 1205 2	0.	2.6	54.0	1 JAN 2025 102	0.	2.6	54.0	2 JAN 0445 202	0.	3.7	54.2
1 JAN 1210 3	0.	2.6	54.0	1 JAN 2030 103	0.	2.6	54.0	2 JAN 0450 203	0.	3.8	54.2
1 JAN 1215 4	0.	2.6	54.0	1 JAN 2035 104	0.	2.6	54.0	2 JAN 0455 204	0.	3.8	54.2
1 JAN 1220 5	0.	2.6	54.0	1 JAN 2040 105	0.	2.6	54.0	2 JAN 0500 205	0.	3.9	54.3
1 JAN 1225 6	0.	2.6	54.0	1 JAN 2045 106	0.	2.6	54.0	2 JAN 0505 206	0.	4.0	54.3
1 JAN 1230 7	0.	2.6	54.0	1 JAN 2050 107	0.	2.6	54.0	2 JAN 0510 207	0.	4.0	54.3
1 JAN 1235 8	0.	2.6	54.0	1 JAN 2055 108	0.	2.6	54.0	2 JAN 0515 208	0.	4.1	54.3
1 JAN 1240 9	0.	2.6	54.0	1 JAN 2100 109	0.	2.6	54.0	2 JAN 0520 209	0.	4.2	54.3
1 JAN 1245 10	0.	2.6	54.0	1 JAN 2105 110	0.	2.6	54.0	2 JAN 0525 210	0.	4.2	54.3
1 JAN 1250 11	0.	2.6	54.0	1 JAN 2110 111	0.	2.6	54.0	2 JAN 0530 211	0.	4.3	54.3
1 JAN 1255 12	0.	2.6	54.0	1 JAN 2115 112	0.	2.6	54.0	2 JAN 0535 212	0.	4.3	54.3
1 JAN 1300 13	0.	2.6	54.0	1 JAN 2120 113	0.	2.6	54.0	2 JAN 0540 213	0.	4.3	54.3
1 JAN 1305 14	0.	2.6	54.0	1 JAN 2125 114	0.	2.6	54.0	2 JAN 0545 214	0.	4.4	54.4
1 JAN 1310 15	0.	2.6	54.0	1 JAN 2130 115	0.	2.6	54.0	2 JAN 0550 215	0.	4.4	54.4
1 JAN 1315 16	0.	2.6	54.0	1 JAN 2135 116	0.	2.6	54.0	2 JAN 0555 216	0.	4.4	54.4
1 JAN 1320 17	0.	2.6	54.0	1 JAN 2140 117	0.	2.6	54.0	2 JAN 0600 217	0.	4.5	54.4
1 JAN 1325 18	0.	2.6	54.0	1 JAN 2145 118	0.	2.6	54.0	2 JAN 0605 218	0.	4.5	54.4
1 JAN 1330 19	0.	2.6	54.0	1 JAN 2150 119	0.	2.6	54.0	2 JAN 0610 219	0.	4.5	54.4
1 JAN 1335 20	0.	2.6	54.0	1 JAN 2155 120	0.	2.6	54.0	2 JAN 0615 220	0.	4.5	54.4
1 JAN 1340 21	0.	2.6	54.0	1 JAN 2200 121	0.	2.6	54.0	2 JAN 0620 221	0.	4.6	54.4

1 JAN 1345	22	0.	2.6	54.0	*	1 JAN 2205 122	0.	2.6	54.0	*	2 JAN 0625 222	0.	4.6	54.4
1 JAN 1350	23	0.	2.6	54.0	*	1 JAN 2210 123	0.	2.6	54.0	*	2 JAN 0630 223	0.	4.6	54.4
1 JAN 1355	24	0.	2.6	54.0	*	1 JAN 2215 124	0.	2.6	54.0	*	2 JAN 0635 224	0.	4.6	54.4
1 JAN 1400	25	0.	2.6	54.0	*	1 JAN 2220 125	0.	2.6	54.0	*	2 JAN 0640 225	0.	4.6	54.4
1 JAN 1405	26	0.	2.6	54.0	*	1 JAN 2225 126	0.	2.6	54.0	*	2 JAN 0645 226	0.	4.7	54.4
1 JAN 1410	27	0.	2.6	54.0	*	1 JAN 2230 127	0.	2.6	54.0	*	2 JAN 0650 227	0.	4.7	54.4
1 JAN 1415	28	0.	2.6	54.0	*	1 JAN 2235 128	0.	2.6	54.0	*	2 JAN 0655 228	0.	4.7	54.4
1 JAN 1420	29	0.	2.6	54.0	*	1 JAN 2240 129	0.	2.6	54.0	*	2 JAN 0700 229	0.	4.7	54.4
1 JAN 1425	30	0.	2.6	54.0	*	1 JAN 2245 130	0.	2.6	54.0	*	2 JAN 0705 230	0.	4.7	54.4
1 JAN 1430	31	0.	2.6	54.0	*	1 JAN 2250 131	0.	2.6	54.0	*	2 JAN 0710 231	0.	4.7	54.4
1 JAN 1435	32	0.	2.6	54.0	*	1 JAN 2255 132	0.	2.6	54.0	*	2 JAN 0715 232	0.	4.8	54.4
1 JAN 1440	33	0.	2.6	54.0	*	1 JAN 2300 133	0.	2.6	54.0	*	2 JAN 0720 233	0.	4.8	54.4
1 JAN 1445	34	0.	2.6	54.0	*	1 JAN 2305 134	0.	2.6	54.0	*	2 JAN 0725 234	0.	4.8	54.4
1 JAN 1450	35	0.	2.6	54.0	*	1 JAN 2310 135	0.	2.6	54.0	*	2 JAN 0730 235	0.	4.8	54.4
1 JAN 1455	36	0.	2.6	54.0	*	1 JAN 2315 136	0.	2.6	54.0	*	2 JAN 0735 236	0.	4.8	54.4
1 JAN 1500	37	0.	2.6	54.0	*	1 JAN 2320 137	0.	2.6	54.0	*	2 JAN 0740 237	0.	4.8	54.4
1 JAN 1505	38	0.	2.6	54.0	*	1 JAN 2325 138	0.	2.6	54.0	*	2 JAN 0745 238	0.	4.8	54.4
1 JAN 1510	39	0.	2.6	54.0	*	1 JAN 2330 139	0.	2.6	54.0	*	2 JAN 0750 239	0.	4.9	54.4
1 JAN 1515	40	0.	2.6	54.0	*	1 JAN 2335 140	0.	2.6	54.0	*	2 JAN 0755 240	0.	4.9	54.4
1 JAN 1520	41	0.	2.6	54.0	*	1 JAN 2340 141	0.	2.6	54.0	*	2 JAN 0800 241	0.	4.9	54.5
1 JAN 1525	42	0.	2.6	54.0	*	1 JAN 2345 142	0.	2.6	54.0	*	2 JAN 0805 242	0.	4.9	54.5
1 JAN 1530	43	0.	2.6	54.0	*	1 JAN 2350 143	0.	2.6	54.0	*	2 JAN 0810 243	0.	4.9	54.5
1 JAN 1535	44	0.	2.6	54.0	*	1 JAN 2355 144	0.	2.6	54.0	*	2 JAN 0815 244	0.	4.9	54.5
1 JAN 1540	45	0.	2.6	54.0	*	2 JAN 0000 145	0.	2.6	54.0	*	2 JAN 0820 245	0.	4.9	54.5
1 JAN 1545	46	0.	2.6	54.0	*	2 JAN 0005 146	0.	2.6	54.0	*	2 JAN 0825 246	0.	4.9	54.5
1 JAN 1550	47	0.	2.6	54.0	*	2 JAN 0010 147	0.	2.6	54.0	*	2 JAN 0830 247	0.	5.0	54.5
1 JAN 1555	48	0.	2.6	54.0	*	2 JAN 0015 148	0.	2.6	54.0	*	2 JAN 0835 248	0.	5.0	54.5
1 JAN 1600	49	0.	2.6	54.0	*	2 JAN 0020 149	0.	2.6	54.0	*	2 JAN 0840 249	0.	5.0	54.5
1 JAN 1605	50	0.	2.6	54.0	*	2 JAN 0025 150	0.	2.6	54.0	*	2 JAN 0845 250	0.	5.0	54.5
1 JAN 1610	51	0.	2.6	54.0	*	2 JAN 0030 151	0.	2.6	54.0	*	2 JAN 0850 251	0.	5.0	54.5
1 JAN 1615	52	0.	2.6	54.0	*	2 JAN 0035 152	0.	2.6	54.0	*	2 JAN 0855 252	0.	5.0	54.5
1 JAN 1620	53	0.	2.6	54.0	*	2 JAN 0040 153	0.	2.6	54.0	*	2 JAN 0900 253	0.	5.0	54.5
1 JAN 1625	54	0.	2.6	54.0	*	2 JAN 0045 154	0.	2.6	54.0	*	2 JAN 0905 254	0.	5.0	54.5
1 JAN 1630	55	0.	2.6	54.0	*	2 JAN 0050 155	0.	2.6	54.0	*	2 JAN 0910 255	0.	5.0	54.5
1 JAN 1635	56	0.	2.6	54.0	*	2 JAN 0055 156	0.	2.6	54.0	*	2 JAN 0915 256	0.	5.1	54.5
1 JAN 1640	57	0.	2.6	54.0	*	2 JAN 0100 157	0.	2.6	54.0	*	2 JAN 0920 257	0.	5.1	54.5
1 JAN 1645	58	0.	2.6	54.0	*	2 JAN 0105 158	0.	2.6	54.0	*	2 JAN 0925 258	0.	5.1	54.5
1 JAN 1650	59	0.	2.6	54.0	*	2 JAN 0110 159	0.	2.6	54.0	*	2 JAN 0930 259	0.	5.1	54.5
1 JAN 1655	60	0.	2.6	54.0	*	2 JAN 0115 160	0.	2.6	54.0	*	2 JAN 0935 260	0.	5.1	54.5
1 JAN 1700	61	0.	2.6	54.0	*	2 JAN 0120 161	0.	2.6	54.0	*	2 JAN 0940 261	0.	5.1	54.5
1 JAN 1705	62	0.	2.6	54.0	*	2 JAN 0125 162	0.	2.6	54.0	*	2 JAN 0945 262	0.	5.1	54.5
1 JAN 1710	63	0.	2.6	54.0	*	2 JAN 0130 163	0.	2.6	54.0	*	2 JAN 0950 263	0.	5.1	54.5
1 JAN 1715	64	0.	2.6	54.0	*	2 JAN 0135 164	0.	2.6	54.0	*	2 JAN 0955 264	0.	5.1	54.5
1 JAN 1720	65	0.	2.6	54.0	*	2 JAN 0140 165	0.	2.6	54.0	*	2 JAN 1000 265	0.	5.1	54.5
1 JAN 1725	66	0.	2.6	54.0	*	2 JAN 0145 166	0.	2.6	54.0	*	2 JAN 1005 266	0.	5.2	54.5
1 JAN 1730	67	0.	2.6	54.0	*	2 JAN 0150 167	0.	2.6	54.0	*	2 JAN 1010 267	0.	5.2	54.5
1 JAN 1735	68	0.	2.6	54.0	*	2 JAN 0155 168	0.	2.6	54.0	*	2 JAN 1015 268	0.	5.2	54.5
1 JAN 1740	69	0.	2.6	54.0	*	2 JAN 0200 169	0.	2.6	54.0	*	2 JAN 1020 269	0.	5.2	54.5
1 JAN 1745	70	0.	2.6	54.0	*	2 JAN 0205 170	0.	2.6	54.0	*	2 JAN 1025 270	0.	5.2	54.5
1 JAN 1750	71	0.	2.6	54.0	*	2 JAN 0210 171	0.	2.6	54.0	*	2 JAN 1030 271	0.	5.2	54.5
1 JAN 1755	72	0.	2.6	54.0	*	2 JAN 0215 172	0.	2.6	54.0	*	2 JAN 1035 272	0.	5.2	54.5
1 JAN 1800	73	0.	2.6	54.0	*	2 JAN 0220 173	0.	2.6	54.0	*	2 JAN 1040 273	0.	5.2	54.5
1 JAN 1805	74	0.	2.6	54.0	*	2 JAN 0225 174	0.	2.6	54.0	*	2 JAN 1045 274	0.	5.2	54.5
1 JAN 1810	75	0.	2.6	54.0	*	2 JAN 0230 175	0.	2.6	54.0	*	2 JAN 1050 275	0.	5.2	54.5
1 JAN 1815	76	0.	2.6	54.0	*	2 JAN 0235 176	0.	2.6	54.0	*	2 JAN 1055 276	0.	5.3	54.5
1 JAN 1820	77	0.	2.6	54.0	*	2 JAN 0240 177	0.	2.6	54.0	*	2 JAN 1100 277	0.	5.3	54.5
1 JAN 1825	78	0.	2.6	54.0	*	2 JAN 0245 178	0.	2.6	54.0	*	2 JAN 1105 278	0.	5.3	54.5
1 JAN 1830	79	0.	2.6	54.0	*	2 JAN 0250 179	0.	2.6	54.0	*	2 JAN 1110 279	0.	5.3	54.5
1 JAN 1835	80	0.	2.6	54.0	*	2 JAN 0255 180	0.	2.6	54.0	*	2 JAN 1115 280	0.	5.3	54.5
1 JAN 1840	81	0.	2.6	54.0	*	2 JAN 0300 181	0.	2.6	54.0	*	2 JAN 1120 281	0.	5.3	54.5

1 JAN 1845	82	0.	2.6	54.0	*	2 JAN 0305 182	0.	2.6	54.0	*	2 JAN 1125 282	0.	5.3	54.5
1 JAN 1850	83	0.	2.6	54.0	*	2 JAN 0310 183	0.	2.6	54.0	*	2 JAN 1130 283	0.	5.3	54.5
1 JAN 1855	84	0.	2.6	54.0	*	2 JAN 0315 184	0.	2.6	54.0	*	2 JAN 1135 284	0.	5.3	54.5
1 JAN 1900	85	0.	2.6	54.0	*	2 JAN 0320 185	0.	2.6	54.0	*	2 JAN 1140 285	0.	5.3	54.5
1 JAN 1905	86	0.	2.6	54.0	*	2 JAN 0325 186	0.	2.6	54.0	*	2 JAN 1145 286	0.	5.3	54.5
1 JAN 1910	87	0.	2.6	54.0	*	2 JAN 0330 187	0.	2.7	54.0	*	2 JAN 1150 287	0.	5.3	54.5
1 JAN 1915	88	0.	2.6	54.0	*	2 JAN 0335 188	0.	2.7	54.0	*	2 JAN 1155 288	0.	5.4	54.5
1 JAN 1920	89	0.	2.6	54.0	*	2 JAN 0340 189	0.	2.7	54.0	*	2 JAN 1200 289	0.	5.4	54.5
1 JAN 1925	90	0.	2.6	54.0	*	2 JAN 0345 190	0.	2.7	54.0	*	2 JAN 1205 290	0.	5.4	54.5
1 JAN 1930	91	0.	2.6	54.0	*	2 JAN 0350 191	0.	2.7	54.0	*	2 JAN 1210 291	0.	5.4	54.5
1 JAN 1935	92	0.	2.6	54.0	*	2 JAN 0355 192	0.	2.8	54.0	*	2 JAN 1215 292	0.	5.4	54.5
1 JAN 1940	93	0.	2.6	54.0	*	2 JAN 0400 193	0.	2.8	54.1	*	2 JAN 1220 293	0.	5.4	54.5
1 JAN 1945	94	0.	2.6	54.0	*	2 JAN 0405 194	0.	3.0	54.1	*	2 JAN 1225 294	0.	5.4	54.5
1 JAN 1950	95	0.	2.6	54.0	*	2 JAN 0410 195	0.	3.1	54.1	*	2 JAN 1230 295	0.	5.4	54.5
1 JAN 1955	96	0.	2.6	54.0	*	2 JAN 0415 196	0.	3.2	54.1	*	2 JAN 1235 296	0.	5.4	54.5
1 JAN 2000	97	0.	2.6	54.0	*	2 JAN 0420 197	0.	3.3	54.1	*	2 JAN 1240 297	0.	5.4	54.5
1 JAN 2005	98	0.	2.6	54.0	*	2 JAN 0425 198	0.	3.4	54.2	*	2 JAN 1245 298	0.	5.4	54.5
1 JAN 2010	99	0.	2.6	54.0	*	2 JAN 0430 199	0.	3.5	54.2	*	2 JAN 1250 299	0.	5.4	54.5
1 JAN 2015	100	0.	2.6	54.0	*	2 JAN 0435 200	0.	3.5	54.2	*	2 JAN 1255 300	0.	5.4	54.5
					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
0.	.00	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

PEAK STORAGE	TIME		MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)		6-HR	24-HR	72-HR	24.92-HR
5.	24.75		5.	3.	3.	3.

PEAK STAGE	TIME		MAXIMUM AVERAGE STAGE			
(FEET)	(HR)		6-HR	24-HR	72-HR	24.92-HR
54.55	24.92		54.50	54.16	54.15	54.15

CUMULATIVE AREA = .11 SQ MI

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          *            *
136 KK    *        9A  *
          *            *
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BASIN 9A ULTIMATELY DRAINING TO PUMP STATION

SUBBASIN RUNOFF DATA

138 BA SUBBASIN CHARACTERISTICS

TAREA .02 SUBBASIN AREA

PRECIPITATION DATA

27 PB STORM 2.49 BASIN TOTAL PRECIPITATION

27 PI INCREMENTAL PRECIPITATION PATTERN

.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.02	.02	.02	.02	.02	.02	.02
.02	.02	.02	.03	.03	.03	.03	.04	.05	.07
.10	.35	.06	.04	.03	.02	.02	.02	.02	.02
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00			

139 LS SCS LOSS RATE

STRTL	.90	INITIAL ABSTRACTION
CRVNBR	69.00	CURVE NUMBER
RTIMP	.00	PERCENT IMPERVIOUS AREA

140 UD SCS DIMENSIONLESS UNITGRAPH

TLAG	.12	LAG

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WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

UNIT HYDROGRAPH

9 END-OF-PERIOD ORDINATES

30. 60. 38. 16. 7. 3. 1. 1. 0.

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HYDROGRAPH AT STATION 9A

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DA MON HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	DA MON HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1 JAN 1200	1	.00	.00	.00	0.	2 JAN 0030	151	.01	.01	.00	0.
1 JAN 1205	2	.00	.00	.00	0.	2 JAN 0035	152	.01	.01	.00	0.
1 JAN 1210	3	.00	.00	.00	0.	2 JAN 0040	153	.01	.01	.00	0.
1 JAN 1215	4	.00	.00	.00	0.	2 JAN 0045	154	.01	.01	.00	0.
1 JAN 1220	5	.00	.00	.00	0.	2 JAN 0050	155	.01	.01	.00	0.

1	JAN	1225	6	.00	.00	.00	0.	*	2	JAN	0055	156	.01	.01	.00	0.
1	JAN	1230	7	.00	.00	.00	0.	*	2	JAN	0100	157	.01	.01	.00	0.
1	JAN	1235	8	.00	.00	.00	0.	*	2	JAN	0105	158	.01	.01	.00	0.
1	JAN	1240	9	.00	.00	.00	0.	*	2	JAN	0110	159	.01	.01	.00	0.
1	JAN	1245	10	.00	.00	.00	0.	*	2	JAN	0115	160	.01	.01	.00	0.
1	JAN	1250	11	.00	.00	.00	0.	*	2	JAN	0120	161	.01	.01	.00	0.
1	JAN	1255	12	.00	.00	.00	0.	*	2	JAN	0125	162	.01	.01	.00	0.
1	JAN	1300	13	.00	.00	.00	0.	*	2	JAN	0130	163	.01	.01	.00	0.
1	JAN	1305	14	.00	.00	.00	0.	*	2	JAN	0135	164	.01	.01	.00	0.
1	JAN	1310	15	.00	.00	.00	0.	*	2	JAN	0140	165	.01	.01	.00	0.
1	JAN	1315	16	.00	.00	.00	0.	*	2	JAN	0145	166	.01	.01	.00	0.
1	JAN	1320	17	.00	.00	.00	0.	*	2	JAN	0150	167	.01	.01	.00	0.
1	JAN	1325	18	.00	.00	.00	0.	*	2	JAN	0155	168	.01	.01	.00	0.
1	JAN	1330	19	.00	.00	.00	0.	*	2	JAN	0200	169	.01	.01	.00	0.
1	JAN	1335	20	.00	.00	.00	0.	*	2	JAN	0205	170	.01	.01	.00	0.
1	JAN	1340	21	.00	.00	.00	0.	*	2	JAN	0210	171	.01	.01	.00	0.
1	JAN	1345	22	.00	.00	.00	0.	*	2	JAN	0215	172	.01	.01	.00	0.
1	JAN	1350	23	.00	.00	.00	0.	*	2	JAN	0220	173	.01	.01	.00	0.
1	JAN	1355	24	.00	.00	.00	0.	*	2	JAN	0225	174	.01	.01	.00	0.
1	JAN	1400	25	.00	.00	.00	0.	*	2	JAN	0230	175	.02	.01	.00	0.
1	JAN	1405	26	.00	.00	.00	0.	*	2	JAN	0235	176	.02	.02	.00	0.
1	JAN	1410	27	.00	.00	.00	0.	*	2	JAN	0240	177	.02	.02	.00	0.
1	JAN	1415	28	.00	.00	.00	0.	*	2	JAN	0245	178	.02	.02	.00	0.
1	JAN	1420	29	.00	.00	.00	0.	*	2	JAN	0250	179	.02	.02	.00	0.
1	JAN	1425	30	.00	.00	.00	0.	*	2	JAN	0255	180	.02	.02	.00	0.
1	JAN	1430	31	.00	.00	.00	0.	*	2	JAN	0300	181	.02	.02	.00	0.
1	JAN	1435	32	.00	.00	.00	0.	*	2	JAN	0305	182	.02	.02	.00	0.
1	JAN	1440	33	.00	.00	.00	0.	*	2	JAN	0310	183	.02	.02	.00	0.
1	JAN	1445	34	.00	.00	.00	0.	*	2	JAN	0315	184	.02	.02	.00	0.
1	JAN	1450	35	.00	.00	.00	0.	*	2	JAN	0320	185	.03	.02	.00	0.
1	JAN	1455	36	.00	.00	.00	0.	*	2	JAN	0325	186	.03	.03	.00	0.
1	JAN	1500	37	.00	.00	.00	0.	*	2	JAN	0330	187	.03	.03	.00	0.
1	JAN	1505	38	.00	.00	.00	0.	*	2	JAN	0335	188	.03	.03	.00	0.
1	JAN	1510	39	.00	.00	.00	0.	*	2	JAN	0340	189	.04	.04	.01	1.
1	JAN	1515	40	.00	.00	.00	0.	*	2	JAN	0345	190	.05	.04	.01	1.
1	JAN	1520	41	.00	.00	.00	0.	*	2	JAN	0350	191	.07	.06	.01	1.
1	JAN	1525	42	.00	.00	.00	0.	*	2	JAN	0355	192	.10	.08	.02	2.
1	JAN	1530	43	.00	.00	.00	0.	*	2	JAN	0400	193	.35	.26	.09	5.
1	JAN	1535	44	.00	.00	.00	0.	*	2	JAN	0405	194	.06	.04	.02	7.
1	JAN	1540	45	.00	.00	.00	0.	*	2	JAN	0410	195	.04	.03	.01	5.
1	JAN	1545	46	.00	.00	.00	0.	*	2	JAN	0415	196	.03	.02	.01	3.
1	JAN	1550	47	.00	.00	.00	0.	*	2	JAN	0420	197	.02	.02	.01	2.
1	JAN	1555	48	.00	.00	.00	0.	*	2	JAN	0425	198	.02	.01	.01	2.
1	JAN	1600	49	.00	.00	.00	0.	*	2	JAN	0430	199	.02	.01	.01	1.
1	JAN	1605	50	.00	.00	.00	0.	*	2	JAN	0435	200	.02	.01	.01	1.
1	JAN	1610	51	.00	.00	.00	0.	*	2	JAN	0440	201	.02	.01	.01	1.
1	JAN	1615	52	.00	.00	.00	0.	*	2	JAN	0445	202	.01	.01	.01	1.
1	JAN	1620	53	.00	.00	.00	0.	*	2	JAN	0450	203	.01	.01	.01	1.
1	JAN	1625	54	.00	.00	.00	0.	*	2	JAN	0455	204	.01	.01	.00	1.
1	JAN	1630	55	.00	.00	.00	0.	*	2	JAN	0500	205	.01	.01	.00	1.
1	JAN	1635	56	.00	.00	.00	0.	*	2	JAN	0505	206	.01	.01	.00	1.
1	JAN	1640	57	.00	.00	.00	0.	*	2	JAN	0510	207	.01	.01	.00	1.
1	JAN	1645	58	.00	.00	.00	0.	*	2	JAN	0515	208	.01	.01	.00	1.
1	JAN	1650	59	.00	.00	.00	0.	*	2	JAN	0520	209	.01	.01	.00	1.
1	JAN	1655	60	.00	.00	.00	0.	*	2	JAN	0525	210	.01	.01	.00	1.
1	JAN	1700	61	.00	.00	.00	0.	*	2	JAN	0530	211	.01	.01	.00	1.
1	JAN	1705	62	.00	.00	.00	0.	*	2	JAN	0535	212	.01	.01	.00	1.
1	JAN	1710	63	.00	.00	.00	0.	*	2	JAN	0540	213	.01	.01	.00	1.
1	JAN	1715	64	.00	.00	.00	0.	*	2	JAN	0545	214	.01	.01	.00	1.
1	JAN	1720	65	.00	.00	.00	0.	*	2	JAN	0550	215	.01	.01	.00	1.

1 JAN 1725	66	.00	.00	.00	0.	*	2 JAN 0555	216	.01	.00	.00	1.
1 JAN 1730	67	.00	.00	.00	0.	*	2 JAN 0600	217	.01	.00	.00	0.
1 JAN 1735	68	.00	.00	.00	0.	*	2 JAN 0605	218	.01	.00	.00	0.
1 JAN 1740	69	.00	.00	.00	0.	*	2 JAN 0610	219	.01	.00	.00	0.
1 JAN 1745	70	.00	.00	.00	0.	*	2 JAN 0615	220	.01	.00	.00	0.
1 JAN 1750	71	.00	.00	.00	0.	*	2 JAN 0620	221	.01	.00	.00	0.
1 JAN 1755	72	.00	.00	.00	0.	*	2 JAN 0625	222	.01	.00	.00	0.
1 JAN 1800	73	.00	.00	.00	0.	*	2 JAN 0630	223	.01	.00	.00	0.
1 JAN 1805	74	.00	.00	.00	0.	*	2 JAN 0635	224	.01	.00	.00	0.
1 JAN 1810	75	.00	.00	.00	0.	*	2 JAN 0640	225	.01	.00	.00	0.
1 JAN 1815	76	.00	.00	.00	0.	*	2 JAN 0645	226	.01	.00	.00	0.
1 JAN 1820	77	.00	.00	.00	0.	*	2 JAN 0650	227	.01	.00	.00	0.
1 JAN 1825	78	.00	.00	.00	0.	*	2 JAN 0655	228	.01	.00	.00	0.
1 JAN 1830	79	.00	.00	.00	0.	*	2 JAN 0700	229	.01	.00	.00	0.
1 JAN 1835	80	.00	.00	.00	0.	*	2 JAN 0705	230	.01	.00	.00	0.
1 JAN 1840	81	.00	.00	.00	0.	*	2 JAN 0710	231	.01	.00	.00	0.
1 JAN 1845	82	.00	.00	.00	0.	*	2 JAN 0715	232	.01	.00	.00	0.
1 JAN 1850	83	.00	.00	.00	0.	*	2 JAN 0720	233	.01	.00	.00	0.
1 JAN 1855	84	.00	.00	.00	0.	*	2 JAN 0725	234	.00	.00	.00	0.
1 JAN 1900	85	.00	.00	.00	0.	*	2 JAN 0730	235	.00	.00	.00	0.
1 JAN 1905	86	.00	.00	.00	0.	*	2 JAN 0735	236	.00	.00	.00	0.
1 JAN 1910	87	.00	.00	.00	0.	*	2 JAN 0740	237	.00	.00	.00	0.
1 JAN 1915	88	.00	.00	.00	0.	*	2 JAN 0745	238	.00	.00	.00	0.
1 JAN 1920	89	.00	.00	.00	0.	*	2 JAN 0750	239	.00	.00	.00	0.
1 JAN 1925	90	.00	.00	.00	0.	*	2 JAN 0755	240	.00	.00	.00	0.
1 JAN 1930	91	.00	.00	.00	0.	*	2 JAN 0800	241	.00	.00	.00	0.
1 JAN 1935	92	.00	.00	.00	0.	*	2 JAN 0805	242	.00	.00	.00	0.
1 JAN 1940	93	.00	.00	.00	0.	*	2 JAN 0810	243	.00	.00	.00	0.
1 JAN 1945	94	.00	.00	.00	0.	*	2 JAN 0815	244	.00	.00	.00	0.
1 JAN 1950	95	.00	.00	.00	0.	*	2 JAN 0820	245	.00	.00	.00	0.
1 JAN 1955	96	.00	.00	.00	0.	*	2 JAN 0825	246	.00	.00	.00	0.
1 JAN 2000	97	.00	.00	.00	0.	*	2 JAN 0830	247	.00	.00	.00	0.
1 JAN 2005	98	.00	.00	.00	0.	*	2 JAN 0835	248	.00	.00	.00	0.
1 JAN 2010	99	.00	.00	.00	0.	*	2 JAN 0840	249	.00	.00	.00	0.
1 JAN 2015	100	.00	.00	.00	0.	*	2 JAN 0845	250	.00	.00	.00	0.
1 JAN 2020	101	.00	.00	.00	0.	*	2 JAN 0850	251	.00	.00	.00	0.
1 JAN 2025	102	.00	.00	.00	0.	*	2 JAN 0855	252	.00	.00	.00	0.
1 JAN 2030	103	.00	.00	.00	0.	*	2 JAN 0900	253	.00	.00	.00	0.
1 JAN 2035	104	.00	.00	.00	0.	*	2 JAN 0905	254	.00	.00	.00	0.
1 JAN 2040	105	.00	.00	.00	0.	*	2 JAN 0910	255	.00	.00	.00	0.
1 JAN 2045	106	.00	.00	.00	0.	*	2 JAN 0915	256	.00	.00	.00	0.
1 JAN 2050	107	.00	.00	.00	0.	*	2 JAN 0920	257	.00	.00	.00	0.
1 JAN 2055	108	.00	.00	.00	0.	*	2 JAN 0925	258	.00	.00	.00	0.
1 JAN 2100	109	.00	.00	.00	0.	*	2 JAN 0930	259	.00	.00	.00	0.
1 JAN 2105	110	.00	.00	.00	0.	*	2 JAN 0935	260	.00	.00	.00	0.
1 JAN 2110	111	.00	.00	.00	0.	*	2 JAN 0940	261	.00	.00	.00	0.
1 JAN 2115	112	.00	.00	.00	0.	*	2 JAN 0945	262	.00	.00	.00	0.
1 JAN 2120	113	.01	.01	.00	0.	*	2 JAN 0950	263	.00	.00	.00	0.
1 JAN 2125	114	.01	.01	.00	0.	*	2 JAN 0955	264	.00	.00	.00	0.
1 JAN 2130	115	.01	.01	.00	0.	*	2 JAN 1000	265	.00	.00	.00	0.
1 JAN 2135	116	.01	.01	.00	0.	*	2 JAN 1005	266	.00	.00	.00	0.
1 JAN 2140	117	.01	.01	.00	0.	*	2 JAN 1010	267	.00	.00	.00	0.
1 JAN 2145	118	.01	.01	.00	0.	*	2 JAN 1015	268	.00	.00	.00	0.
1 JAN 2150	119	.01	.01	.00	0.	*	2 JAN 1020	269	.00	.00	.00	0.
1 JAN 2155	120	.01	.01	.00	0.	*	2 JAN 1025	270	.00	.00	.00	0.
1 JAN 2200	121	.01	.01	.00	0.	*	2 JAN 1030	271	.00	.00	.00	0.
1 JAN 2205	122	.01	.01	.00	0.	*	2 JAN 1035	272	.00	.00	.00	0.
1 JAN 2210	123	.01	.01	.00	0.	*	2 JAN 1040	273	.00	.00	.00	0.
1 JAN 2215	124	.01	.01	.00	0.	*	2 JAN 1045	274	.00	.00	.00	0.
1 JAN 2220	125	.01	.01	.00	0.	*	2 JAN 1050	275	.00	.00	.00	0.

1 JAN 2225	126	.01	.01	.00	0.	*	2 JAN 1055	276	.00	.00	.00	0.
1 JAN 2230	127	.01	.01	.00	0.	*	2 JAN 1100	277	.00	.00	.00	0.
1 JAN 2235	128	.01	.01	.00	0.	*	2 JAN 1105	278	.00	.00	.00	0.
1 JAN 2240	129	.01	.01	.00	0.	*	2 JAN 1110	279	.00	.00	.00	0.
1 JAN 2245	130	.01	.01	.00	0.	*	2 JAN 1115	280	.00	.00	.00	0.
1 JAN 2250	131	.01	.01	.00	0.	*	2 JAN 1120	281	.00	.00	.00	0.
1 JAN 2255	132	.01	.01	.00	0.	*	2 JAN 1125	282	.00	.00	.00	0.
1 JAN 2300	133	.01	.01	.00	0.	*	2 JAN 1130	283	.00	.00	.00	0.
1 JAN 2305	134	.01	.01	.00	0.	*	2 JAN 1135	284	.00	.00	.00	0.
1 JAN 2310	135	.01	.01	.00	0.	*	2 JAN 1140	285	.00	.00	.00	0.
1 JAN 2315	136	.01	.01	.00	0.	*	2 JAN 1145	286	.00	.00	.00	0.
1 JAN 2320	137	.01	.01	.00	0.	*	2 JAN 1150	287	.00	.00	.00	0.
1 JAN 2325	138	.01	.01	.00	0.	*	2 JAN 1155	288	.00	.00	.00	0.
1 JAN 2330	139	.01	.01	.00	0.	*	2 JAN 1200	289	.00	.00	.00	0.
1 JAN 2335	140	.01	.01	.00	0.	*	2 JAN 1205	290	.00	.00	.00	0.
1 JAN 2340	141	.01	.01	.00	0.	*	2 JAN 1210	291	.00	.00	.00	0.
1 JAN 2345	142	.01	.01	.00	0.	*	2 JAN 1215	292	.00	.00	.00	0.
1 JAN 2350	143	.01	.01	.00	0.	*	2 JAN 1220	293	.00	.00	.00	0.
1 JAN 2355	144	.01	.01	.00	0.	*	2 JAN 1225	294	.00	.00	.00	0.
2 JAN 0000	145	.01	.01	.00	0.	*	2 JAN 1230	295	.00	.00	.00	0.
2 JAN 0005	146	.01	.01	.00	0.	*	2 JAN 1235	296	.00	.00	.00	0.
2 JAN 0010	147	.01	.01	.00	0.	*	2 JAN 1240	297	.00	.00	.00	0.
2 JAN 0015	148	.01	.01	.00	0.	*	2 JAN 1245	298	.00	.00	.00	0.
2 JAN 0020	149	.01	.01	.00	0.	*	2 JAN 1250	299	.00	.00	.00	0.
2 JAN 0025	150	.01	.01	.00	0.	*	2 JAN 1255	300	.00	.00	.00	0.
						*						

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TOTAL RAINFALL = 2.49, TOTAL LOSS = 2.08, TOTAL EXCESS = .42

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
7.	16.08	(CFS)	1.	0.	0.	0.
		(INCHES)	.365	.418	.418	.418
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = .02 SQ MI

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          *            *
141 KK    *    DET9A   *
          *            *
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DETAIN BASIN 9A IN THE SUMP

HYDROGRAPH ROUTING DATA

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143 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

144 SA            AREA          .0       1.6       1.6
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145 SQ DISCHARGE 0. 0. 20.

146 SE ELEVATION 53.00 54.00 54.10

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COMPUTED STORAGE-ELEVATION DATA

STORAGE	.00	.53	.69
ELEVATION	53.00	54.00	54.10

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HYDROGRAPH AT STATION DET9A

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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	JAN	1200	1	0.	.5	54.0	1	JAN	2020	101	0.	.5	54.0	2	JAN	0440	201	1.	.5	54.0
1	JAN	1205	2	0.	.5	54.0	1	JAN	2025	102	0.	.5	54.0	2	JAN	0445	202	1.	.5	54.0
1	JAN	1210	3	0.	.5	54.0	1	JAN	2030	103	0.	.5	54.0	2	JAN	0450	203	1.	.5	54.0
1	JAN	1215	4	0.	.5	54.0	1	JAN	2035	104	0.	.5	54.0	2	JAN	0455	204	1.	.5	54.0
1	JAN	1220	5	0.	.5	54.0	1	JAN	2040	105	0.	.5	54.0	2	JAN	0500	205	1.	.5	54.0
1	JAN	1225	6	0.	.5	54.0	1	JAN	2045	106	0.	.5	54.0	2	JAN	0505	206	1.	.5	54.0
1	JAN	1230	7	0.	.5	54.0	1	JAN	2050	107	0.	.5	54.0	2	JAN	0510	207	1.	.5	54.0
1	JAN	1235	8	0.	.5	54.0	1	JAN	2055	108	0.	.5	54.0	2	JAN	0515	208	1.	.5	54.0
1	JAN	1240	9	0.	.5	54.0	1	JAN	2100	109	0.	.5	54.0	2	JAN	0520	209	1.	.5	54.0
1	JAN	1245	10	0.	.5	54.0	1	JAN	2105	110	0.	.5	54.0	2	JAN	0525	210	1.	.5	54.0
1	JAN	1250	11	0.	.5	54.0	1	JAN	2110	111	0.	.5	54.0	2	JAN	0530	211	1.	.5	54.0
1	JAN	1255	12	0.	.5	54.0	1	JAN	2115	112	0.	.5	54.0	2	JAN	0535	212	1.	.5	54.0
1	JAN	1300	13	0.	.5	54.0	1	JAN	2120	113	0.	.5	54.0	2	JAN	0540	213	1.	.5	54.0
1	JAN	1305	14	0.	.5	54.0	1	JAN	2125	114	0.	.5	54.0	2	JAN	0545	214	1.	.5	54.0
1	JAN	1310	15	0.	.5	54.0	1	JAN	2130	115	0.	.5	54.0	2	JAN	0550	215	1.	.5	54.0
1	JAN	1315	16	0.	.5	54.0	1	JAN	2135	116	0.	.5	54.0	2	JAN	0555	216	1.	.5	54.0
1	JAN	1320	17	0.	.5	54.0	1	JAN	2140	117	0.	.5	54.0	2	JAN	0600	217	1.	.5	54.0
1	JAN	1325	18	0.	.5	54.0	1	JAN	2145	118	0.	.5	54.0	2	JAN	0605	218	0.	.5	54.0
1	JAN	1330	19	0.	.5	54.0	1	JAN	2150	119	0.	.5	54.0	2	JAN	0610	219	0.	.5	54.0
1	JAN	1335	20	0.	.5	54.0	1	JAN	2155	120	0.	.5	54.0	2	JAN	0615	220	0.	.5	54.0
1	JAN	1340	21	0.	.5	54.0	1	JAN	2200	121	0.	.5	54.0	2	JAN	0620	221	0.	.5	54.0
1	JAN	1345	22	0.	.5	54.0	1	JAN	2205	122	0.	.5	54.0	2	JAN	0625	222	0.	.5	54.0
1	JAN	1350	23	0.	.5	54.0	1	JAN	2210	123	0.	.5	54.0	2	JAN	0630	223	0.	.5	54.0
1	JAN	1355	24	0.	.5	54.0	1	JAN	2215	124	0.	.5	54.0	2	JAN	0635	224	0.	.5	54.0
1	JAN	1400	25	0.	.5	54.0	1	JAN	2220	125	0.	.5	54.0	2	JAN	0640	225	0.	.5	54.0
1	JAN	1405	26	0.	.5	54.0	1	JAN	2225	126	0.	.5	54.0	2	JAN	0645	226	0.	.5	54.0
1	JAN	1410	27	0.	.5	54.0	1	JAN	2230	127	0.	.5	54.0	2	JAN	0650	227	0.	.5	54.0
1	JAN	1415	28	0.	.5	54.0	1	JAN	2235	128	0.	.5	54.0	2	JAN	0655	228	0.	.5	54.0
1	JAN	1420	29	0.	.5	54.0	1	JAN	2240	129	0.	.5	54.0	2	JAN	0700	229	0.	.5	54.0
1	JAN	1425	30	0.	.5	54.0	1	JAN	2245	130	0.	.5	54.0	2	JAN	0705	230	0.	.5	54.0
1	JAN	1430	31	0.	.5	54.0	1	JAN	2250	131	0.	.5	54.0	2	JAN	0710	231	0.	.5	54.0
1	JAN	1435	32	0.	.5	54.0	1	JAN	2255	132	0.	.5	54.0	2	JAN	0715	232	0.	.5	54.0
1	JAN	1440	33	0.	.5	54.0	1	JAN	2300	133	0.	.5	54.0	2	JAN	0720	233	0.	.5	54.0
1	JAN	1445	34	0.	.5	54.0	1	JAN	2305	134	0.	.5	54.0	2	JAN	0725	234	0.	.5	54.0
1	JAN	1450	35	0.	.5	54.0	1	JAN	2310	135	0.	.5	54.0	2	JAN	0730	235	0.	.5	54.0
1	JAN	1455	36	0.	.5	54.0	1	JAN	2315	136	0.	.5	54.0	2	JAN	0735	236	0.	.5	54.0
1	JAN	1500	37	0.	.5	54.0	1	JAN	2320	137	0.	.5	54.0	2	JAN	0740	237	0.	.5	54.0
1	JAN	1505	38	0.	.5	54.0	1	JAN	2325	138	0.	.5	54.0	2	JAN	0745	238	0.	.5	54.0
1	JAN	1510	39	0.	.5	54.0	1	JAN	2330	139	0.	.5	54.0	2	JAN	0750	239	0.	.5	54.0
1	JAN	1515	40	0.	.5	54.0	1	JAN	2335	140	0.	.5	54.0	2	JAN	0755	240	0.	.5	54.0

1 JAN 1520	41	0.	.5	54.0 *	1 JAN 2340	141	0.	.5	54.0 *	2 JAN 0800	241	0.	.5	54.0
1 JAN 1525	42	0.	.5	54.0 *	1 JAN 2345	142	0.	.5	54.0 *	2 JAN 0805	242	0.	.5	54.0
1 JAN 1530	43	0.	.5	54.0 *	1 JAN 2350	143	0.	.5	54.0 *	2 JAN 0810	243	0.	.5	54.0
1 JAN 1535	44	0.	.5	54.0 *	1 JAN 2355	144	0.	.5	54.0 *	2 JAN 0815	244	0.	.5	54.0
1 JAN 1540	45	0.	.5	54.0 *	2 JAN 0000	145	0.	.5	54.0 *	2 JAN 0820	245	0.	.5	54.0
1 JAN 1545	46	0.	.5	54.0 *	2 JAN 0005	146	0.	.5	54.0 *	2 JAN 0825	246	0.	.5	54.0
1 JAN 1550	47	0.	.5	54.0 *	2 JAN 0010	147	0.	.5	54.0 *	2 JAN 0830	247	0.	.5	54.0
1 JAN 1555	48	0.	.5	54.0 *	2 JAN 0015	148	0.	.5	54.0 *	2 JAN 0835	248	0.	.5	54.0
1 JAN 1600	49	0.	.5	54.0 *	2 JAN 0020	149	0.	.5	54.0 *	2 JAN 0840	249	0.	.5	54.0
1 JAN 1605	50	0.	.5	54.0 *	2 JAN 0025	150	0.	.5	54.0 *	2 JAN 0845	250	0.	.5	54.0
1 JAN 1610	51	0.	.5	54.0 *	2 JAN 0030	151	0.	.5	54.0 *	2 JAN 0850	251	0.	.5	54.0
1 JAN 1615	52	0.	.5	54.0 *	2 JAN 0035	152	0.	.5	54.0 *	2 JAN 0855	252	0.	.5	54.0
1 JAN 1620	53	0.	.5	54.0 *	2 JAN 0040	153	0.	.5	54.0 *	2 JAN 0900	253	0.	.5	54.0
1 JAN 1625	54	0.	.5	54.0 *	2 JAN 0045	154	0.	.5	54.0 *	2 JAN 0905	254	0.	.5	54.0
1 JAN 1630	55	0.	.5	54.0 *	2 JAN 0050	155	0.	.5	54.0 *	2 JAN 0910	255	0.	.5	54.0
1 JAN 1635	56	0.	.5	54.0 *	2 JAN 0055	156	0.	.5	54.0 *	2 JAN 0915	256	0.	.5	54.0
1 JAN 1640	57	0.	.5	54.0 *	2 JAN 0100	157	0.	.5	54.0 *	2 JAN 0920	257	0.	.5	54.0
1 JAN 1645	58	0.	.5	54.0 *	2 JAN 0105	158	0.	.5	54.0 *	2 JAN 0925	258	0.	.5	54.0
1 JAN 1650	59	0.	.5	54.0 *	2 JAN 0110	159	0.	.5	54.0 *	2 JAN 0930	259	0.	.5	54.0
1 JAN 1655	60	0.	.5	54.0 *	2 JAN 0115	160	0.	.5	54.0 *	2 JAN 0935	260	0.	.5	54.0
1 JAN 1700	61	0.	.5	54.0 *	2 JAN 0120	161	0.	.5	54.0 *	2 JAN 0940	261	0.	.5	54.0
1 JAN 1705	62	0.	.5	54.0 *	2 JAN 0125	162	0.	.5	54.0 *	2 JAN 0945	262	0.	.5	54.0
1 JAN 1710	63	0.	.5	54.0 *	2 JAN 0130	163	0.	.5	54.0 *	2 JAN 0950	263	0.	.5	54.0
1 JAN 1715	64	0.	.5	54.0 *	2 JAN 0135	164	0.	.5	54.0 *	2 JAN 0955	264	0.	.5	54.0
1 JAN 1720	65	0.	.5	54.0 *	2 JAN 0140	165	0.	.5	54.0 *	2 JAN 1000	265	0.	.5	54.0
1 JAN 1725	66	0.	.5	54.0 *	2 JAN 0145	166	0.	.5	54.0 *	2 JAN 1005	266	0.	.5	54.0
1 JAN 1730	67	0.	.5	54.0 *	2 JAN 0150	167	0.	.5	54.0 *	2 JAN 1010	267	0.	.5	54.0
1 JAN 1735	68	0.	.5	54.0 *	2 JAN 0155	168	0.	.5	54.0 *	2 JAN 1015	268	0.	.5	54.0
1 JAN 1740	69	0.	.5	54.0 *	2 JAN 0200	169	0.	.5	54.0 *	2 JAN 1020	269	0.	.5	54.0
1 JAN 1745	70	0.	.5	54.0 *	2 JAN 0205	170	0.	.5	54.0 *	2 JAN 1025	270	0.	.5	54.0
1 JAN 1750	71	0.	.5	54.0 *	2 JAN 0210	171	0.	.5	54.0 *	2 JAN 1030	271	0.	.5	54.0
1 JAN 1755	72	0.	.5	54.0 *	2 JAN 0215	172	0.	.5	54.0 *	2 JAN 1035	272	0.	.5	54.0
1 JAN 1800	73	0.	.5	54.0 *	2 JAN 0220	173	0.	.5	54.0 *	2 JAN 1040	273	0.	.5	54.0
1 JAN 1805	74	0.	.5	54.0 *	2 JAN 0225	174	0.	.5	54.0 *	2 JAN 1045	274	0.	.5	54.0
1 JAN 1810	75	0.	.5	54.0 *	2 JAN 0230	175	0.	.5	54.0 *	2 JAN 1050	275	0.	.5	54.0
1 JAN 1815	76	0.	.5	54.0 *	2 JAN 0235	176	0.	.5	54.0 *	2 JAN 1055	276	0.	.5	54.0
1 JAN 1820	77	0.	.5	54.0 *	2 JAN 0240	177	0.	.5	54.0 *	2 JAN 1100	277	0.	.5	54.0
1 JAN 1825	78	0.	.5	54.0 *	2 JAN 0245	178	0.	.5	54.0 *	2 JAN 1105	278	0.	.5	54.0
1 JAN 1830	79	0.	.5	54.0 *	2 JAN 0250	179	0.	.5	54.0 *	2 JAN 1110	279	0.	.5	54.0
1 JAN 1835	80	0.	.5	54.0 *	2 JAN 0255	180	0.	.5	54.0 *	2 JAN 1115	280	0.	.5	54.0
1 JAN 1840	81	0.	.5	54.0 *	2 JAN 0300	181	0.	.5	54.0 *	2 JAN 1120	281	0.	.5	54.0
1 JAN 1845	82	0.	.5	54.0 *	2 JAN 0305	182	0.	.5	54.0 *	2 JAN 1125	282	0.	.5	54.0
1 JAN 1850	83	0.	.5	54.0 *	2 JAN 0310	183	0.	.5	54.0 *	2 JAN 1130	283	0.	.5	54.0
1 JAN 1855	84	0.	.5	54.0 *	2 JAN 0315	184	0.	.5	54.0 *	2 JAN 1135	284	0.	.5	54.0
1 JAN 1900	85	0.	.5	54.0 *	2 JAN 0320	185	0.	.5	54.0 *	2 JAN 1140	285	0.	.5	54.0
1 JAN 1905	86	0.	.5	54.0 *	2 JAN 0325	186	0.	.5	54.0 *	2 JAN 1145	286	0.	.5	54.0
1 JAN 1910	87	0.	.5	54.0 *	2 JAN 0330	187	0.	.5	54.0 *	2 JAN 1150	287	0.	.5	54.0
1 JAN 1915	88	0.	.5	54.0 *	2 JAN 0335	188	0.	.5	54.0 *	2 JAN 1155	288	0.	.5	54.0
1 JAN 1920	89	0.	.5	54.0 *	2 JAN 0340	189	0.	.5	54.0 *	2 JAN 1200	289	0.	.5	54.0
1 JAN 1925	90	0.	.5	54.0 *	2 JAN 0345	190	1.	.5	54.0 *	2 JAN 1205	290	0.	.5	54.0
1 JAN 1930	91	0.	.5	54.0 *	2 JAN 0350	191	1.	.5	54.0 *	2 JAN 1210	291	0.	.5	54.0
1 JAN 1935	92	0.	.5	54.0 *	2 JAN 0355	192	1.	.5	54.0 *	2 JAN 1215	292	0.	.5	54.0
1 JAN 1940	93	0.	.5	54.0 *	2 JAN 0400	193	2.	.6	54.0 *	2 JAN 1220	293	0.	.5	54.0
1 JAN 1945	94	0.	.5	54.0 *	2 JAN 0405	194	4.	.6	54.0 *	2 JAN 1225	294	0.	.5	54.0
1 JAN 1950	95	0.	.5	54.0 *	2 JAN 0410	195	5.	.6	54.0 *	2 JAN 1230	295	0.	.5	54.0
1 JAN 1955	96	0.	.5	54.0 *	2 JAN 0415	196	5.	.6	54.0 *	2 JAN 1235	296	0.	.5	54.0
1 JAN 2000	97	0.	.5	54.0 *	2 JAN 0420	197	4.	.6	54.0 *	2 JAN 1240	297	0.	.5	54.0
1 JAN 2005	98	0.	.5	54.0 *	2 JAN 0425	198	3.	.6	54.0 *	2 JAN 1245	298	0.	.5	54.0
1 JAN 2010	99	0.	.5	54.0 *	2 JAN 0430	199	2.	.5	54.0 *	2 JAN 1250	299	0.	.5	54.0
1 JAN 2015	100	0.	.5	54.0 *	2 JAN 0435	200	2.	.5	54.0 *	2 JAN 1255	300	0.	.5	54.0

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
5.	16.17	(CFS)	1.	0.	0.	0.
		(INCHES)	.364	.418	.418	.418
		(AC-FT)	0.	0.	0.	0.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
1.	16.17	1.	1.	1.	1.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
54.03	16.17	54.00	54.00	54.00	54.00

CUMULATIVE AREA = .02 SQ MI

147 KK

9B

BASIN 9B ULTIMATELY DRAINING TO PUMP STATION

SUBBASIN RUNOFF DATA

149 BA SUBBASIN CHARACTERISTICS

TAREA .03 SUBBASIN AREA

PRECIPITATION DATA

27 PB STORM 2.49 BASIN TOTAL PRECIPITATION

27 PI INCREMENTAL PRECIPITATION PATTERN

.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.02	.02	.02	.02	.02	.02	.02

.02	.02	.02	.03	.03	.03	.03	.04	.05	.07
.10	.35	.06	.04	.03	.02	.02	.02	.02	.02
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00			

150 LS SCS LOSS RATE

STRTL	.94	INITIAL ABSTRACTION
CRVNBR	68.00	CURVE NUMBER
RTIMP	.00	PERCENT IMPERVIOUS AREA

151 UD SCS DIMENSIONLESS UNITGRAPH

TLAG	.12	LAG

***

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

UNIT HYDROGRAPH

9 END-OF-PERIOD ORDINATES

43.	89.	58.	24.	11.	5.	2.	1.	0.

****

HYDROGRAPH AT STATION 9B

****

DA MON HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	DA MON HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1 JAN 1200	1	.00	.00	.00	0.	2 JAN 0030	151	.01	.01	.00	0.
1 JAN 1205	2	.00	.00	.00	0.	2 JAN 0035	152	.01	.01	.00	0.
1 JAN 1210	3	.00	.00	.00	0.	2 JAN 0040	153	.01	.01	.00	0.
1 JAN 1215	4	.00	.00	.00	0.	2 JAN 0045	154	.01	.01	.00	0.
1 JAN 1220	5	.00	.00	.00	0.	2 JAN 0050	155	.01	.01	.00	0.
1 JAN 1225	6	.00	.00	.00	0.	2 JAN 0055	156	.01	.01	.00	0.
1 JAN 1230	7	.00	.00	.00	0.	2 JAN 0100	157	.01	.01	.00	0.
1 JAN 1235	8	.00	.00	.00	0.	2 JAN 0105	158	.01	.01	.00	0.
1 JAN 1240	9	.00	.00	.00	0.	2 JAN 0110	159	.01	.01	.00	0.
1 JAN 1245	10	.00	.00	.00	0.	2 JAN 0115	160	.01	.01	.00	0.
1 JAN 1250	11	.00	.00	.00	0.	2 JAN 0120	161	.01	.01	.00	0.
1 JAN 1255	12	.00	.00	.00	0.	2 JAN 0125	162	.01	.01	.00	0.
1 JAN 1300	13	.00	.00	.00	0.	2 JAN 0130	163	.01	.01	.00	0.
1 JAN 1305	14	.00	.00	.00	0.	2 JAN 0135	164	.01	.01	.00	0.
1 JAN 1310	15	.00	.00	.00	0.	2 JAN 0140	165	.01	.01	.00	0.
1 JAN 1315	16	.00	.00	.00	0.	2 JAN 0145	166	.01	.01	.00	0.
1 JAN 1320	17	.00	.00	.00	0.	2 JAN 0150	167	.01	.01	.00	0.
1 JAN 1325	18	.00	.00	.00	0.	2 JAN 0155	168	.01	.01	.00	0.
1 JAN 1330	19	.00	.00	.00	0.	2 JAN 0200	169	.01	.01	.00	0.
1 JAN 1335	20	.00	.00	.00	0.	2 JAN 0205	170	.01	.01	.00	0.
1 JAN 1340	21	.00	.00	.00	0.	2 JAN 0210	171	.01	.01	.00	0.
1 JAN 1345	22	.00	.00	.00	0.	2 JAN 0215	172	.01	.01	.00	0.
1 JAN 1350	23	.00	.00	.00	0.	2 JAN 0220	173	.01	.01	.00	0.
1 JAN 1355	24	.00	.00	.00	0.	2 JAN 0225	174	.01	.01	.00	0.

1 JAN 1400	25	.00	.00	.00	0.	*	2 JAN 0230	175	.02	.02	.00	0.
1 JAN 1405	26	.00	.00	.00	0.	*	2 JAN 0235	176	.02	.02	.00	0.
1 JAN 1410	27	.00	.00	.00	0.	*	2 JAN 0240	177	.02	.02	.00	0.
1 JAN 1415	28	.00	.00	.00	0.	*	2 JAN 0245	178	.02	.02	.00	0.
1 JAN 1420	29	.00	.00	.00	0.	*	2 JAN 0250	179	.02	.02	.00	0.
1 JAN 1425	30	.00	.00	.00	0.	*	2 JAN 0255	180	.02	.02	.00	0.
1 JAN 1430	31	.00	.00	.00	0.	*	2 JAN 0300	181	.02	.02	.00	0.
1 JAN 1435	32	.00	.00	.00	0.	*	2 JAN 0305	182	.02	.02	.00	0.
1 JAN 1440	33	.00	.00	.00	0.	*	2 JAN 0310	183	.02	.02	.00	0.
1 JAN 1445	34	.00	.00	.00	0.	*	2 JAN 0315	184	.02	.02	.00	0.
1 JAN 1450	35	.00	.00	.00	0.	*	2 JAN 0320	185	.03	.02	.00	0.
1 JAN 1455	36	.00	.00	.00	0.	*	2 JAN 0325	186	.03	.03	.00	0.
1 JAN 1500	37	.00	.00	.00	0.	*	2 JAN 0330	187	.03	.03	.00	0.
1 JAN 1505	38	.00	.00	.00	0.	*	2 JAN 0335	188	.03	.03	.00	1.
1 JAN 1510	39	.00	.00	.00	0.	*	2 JAN 0340	189	.04	.04	.00	1.
1 JAN 1515	40	.00	.00	.00	0.	*	2 JAN 0345	190	.05	.04	.01	1.
1 JAN 1520	41	.00	.00	.00	0.	*	2 JAN 0350	191	.07	.06	.01	1.
1 JAN 1525	42	.00	.00	.00	0.	*	2 JAN 0355	192	.10	.08	.02	2.
1 JAN 1530	43	.00	.00	.00	0.	*	2 JAN 0400	193	.35	.27	.08	6.
1 JAN 1535	44	.00	.00	.00	0.	*	2 JAN 0405	194	.06	.04	.02	9.
1 JAN 1540	45	.00	.00	.00	0.	*	2 JAN 0410	195	.04	.03	.01	7.
1 JAN 1545	46	.00	.00	.00	0.	*	2 JAN 0415	196	.03	.02	.01	5.
1 JAN 1550	47	.00	.00	.00	0.	*	2 JAN 0420	197	.02	.02	.01	3.
1 JAN 1555	48	.00	.00	.00	0.	*	2 JAN 0425	198	.02	.01	.01	2.
1 JAN 1600	49	.00	.00	.00	0.	*	2 JAN 0430	199	.02	.01	.01	2.
1 JAN 1605	50	.00	.00	.00	0.	*	2 JAN 0435	200	.02	.01	.01	2.
1 JAN 1610	51	.00	.00	.00	0.	*	2 JAN 0440	201	.02	.01	.01	1.
1 JAN 1615	52	.00	.00	.00	0.	*	2 JAN 0445	202	.01	.01	.01	1.
1 JAN 1620	53	.00	.00	.00	0.	*	2 JAN 0450	203	.01	.01	.00	1.
1 JAN 1625	54	.00	.00	.00	0.	*	2 JAN 0455	204	.01	.01	.00	1.
1 JAN 1630	55	.00	.00	.00	0.	*	2 JAN 0500	205	.01	.01	.00	1.
1 JAN 1635	56	.00	.00	.00	0.	*	2 JAN 0505	206	.01	.01	.00	1.
1 JAN 1640	57	.00	.00	.00	0.	*	2 JAN 0510	207	.01	.01	.00	1.
1 JAN 1645	58	.00	.00	.00	0.	*	2 JAN 0515	208	.01	.01	.00	1.
1 JAN 1650	59	.00	.00	.00	0.	*	2 JAN 0520	209	.01	.01	.00	1.
1 JAN 1655	60	.00	.00	.00	0.	*	2 JAN 0525	210	.01	.01	.00	1.
1 JAN 1700	61	.00	.00	.00	0.	*	2 JAN 0530	211	.01	.01	.00	1.
1 JAN 1705	62	.00	.00	.00	0.	*	2 JAN 0535	212	.01	.01	.00	1.
1 JAN 1710	63	.00	.00	.00	0.	*	2 JAN 0540	213	.01	.01	.00	1.
1 JAN 1715	64	.00	.00	.00	0.	*	2 JAN 0545	214	.01	.01	.00	1.
1 JAN 1720	65	.00	.00	.00	0.	*	2 JAN 0550	215	.01	.01	.00	1.
1 JAN 1725	66	.00	.00	.00	0.	*	2 JAN 0555	216	.01	.01	.00	1.
1 JAN 1730	67	.00	.00	.00	0.	*	2 JAN 0600	217	.01	.00	.00	1.
1 JAN 1735	68	.00	.00	.00	0.	*	2 JAN 0605	218	.01	.00	.00	1.
1 JAN 1740	69	.00	.00	.00	0.	*	2 JAN 0610	219	.01	.00	.00	1.
1 JAN 1745	70	.00	.00	.00	0.	*	2 JAN 0615	220	.01	.00	.00	1.
1 JAN 1750	71	.00	.00	.00	0.	*	2 JAN 0620	221	.01	.00	.00	1.
1 JAN 1755	72	.00	.00	.00	0.	*	2 JAN 0625	222	.01	.00	.00	1.
1 JAN 1800	73	.00	.00	.00	0.	*	2 JAN 0630	223	.01	.00	.00	1.
1 JAN 1805	74	.00	.00	.00	0.	*	2 JAN 0635	224	.01	.00	.00	1.
1 JAN 1810	75	.00	.00	.00	0.	*	2 JAN 0640	225	.01	.00	.00	1.
1 JAN 1815	76	.00	.00	.00	0.	*	2 JAN 0645	226	.01	.00	.00	1.
1 JAN 1820	77	.00	.00	.00	0.	*	2 JAN 0650	227	.01	.00	.00	1.
1 JAN 1825	78	.00	.00	.00	0.	*	2 JAN 0655	228	.01	.00	.00	1.
1 JAN 1830	79	.00	.00	.00	0.	*	2 JAN 0700	229	.01	.00	.00	1.
1 JAN 1835	80	.00	.00	.00	0.	*	2 JAN 0705	230	.01	.00	.00	0.
1 JAN 1840	81	.00	.00	.00	0.	*	2 JAN 0710	231	.01	.00	.00	0.
1 JAN 1845	82	.00	.00	.00	0.	*	2 JAN 0715	232	.01	.00	.00	0.
1 JAN 1850	83	.00	.00	.00	0.	*	2 JAN 0720	233	.01	.00	.00	0.
1 JAN 1855	84	.00	.00	.00	0.	*	2 JAN 0725	234	.00	.00	.00	0.

1 JAN 1900	85	.00	.00	.00	0.	*	2 JAN 0730	235	.00	.00	.00	0.
1 JAN 1905	86	.00	.00	.00	0.	*	2 JAN 0735	236	.00	.00	.00	0.
1 JAN 1910	87	.00	.00	.00	0.	*	2 JAN 0740	237	.00	.00	.00	0.
1 JAN 1915	88	.00	.00	.00	0.	*	2 JAN 0745	238	.00	.00	.00	0.
1 JAN 1920	89	.00	.00	.00	0.	*	2 JAN 0750	239	.00	.00	.00	0.
1 JAN 1925	90	.00	.00	.00	0.	*	2 JAN 0755	240	.00	.00	.00	0.
1 JAN 1930	91	.00	.00	.00	0.	*	2 JAN 0800	241	.00	.00	.00	0.
1 JAN 1935	92	.00	.00	.00	0.	*	2 JAN 0805	242	.00	.00	.00	0.
1 JAN 1940	93	.00	.00	.00	0.	*	2 JAN 0810	243	.00	.00	.00	0.
1 JAN 1945	94	.00	.00	.00	0.	*	2 JAN 0815	244	.00	.00	.00	0.
1 JAN 1950	95	.00	.00	.00	0.	*	2 JAN 0820	245	.00	.00	.00	0.
1 JAN 1955	96	.00	.00	.00	0.	*	2 JAN 0825	246	.00	.00	.00	0.
1 JAN 2000	97	.00	.00	.00	0.	*	2 JAN 0830	247	.00	.00	.00	0.
1 JAN 2005	98	.00	.00	.00	0.	*	2 JAN 0835	248	.00	.00	.00	0.
1 JAN 2010	99	.00	.00	.00	0.	*	2 JAN 0840	249	.00	.00	.00	0.
1 JAN 2015	100	.00	.00	.00	0.	*	2 JAN 0845	250	.00	.00	.00	0.
1 JAN 2020	101	.00	.00	.00	0.	*	2 JAN 0850	251	.00	.00	.00	0.
1 JAN 2025	102	.00	.00	.00	0.	*	2 JAN 0855	252	.00	.00	.00	0.
1 JAN 2030	103	.00	.00	.00	0.	*	2 JAN 0900	253	.00	.00	.00	0.
1 JAN 2035	104	.00	.00	.00	0.	*	2 JAN 0905	254	.00	.00	.00	0.
1 JAN 2040	105	.00	.00	.00	0.	*	2 JAN 0910	255	.00	.00	.00	0.
1 JAN 2045	106	.00	.00	.00	0.	*	2 JAN 0915	256	.00	.00	.00	0.
1 JAN 2050	107	.00	.00	.00	0.	*	2 JAN 0920	257	.00	.00	.00	0.
1 JAN 2055	108	.00	.00	.00	0.	*	2 JAN 0925	258	.00	.00	.00	0.
1 JAN 2100	109	.00	.00	.00	0.	*	2 JAN 0930	259	.00	.00	.00	0.
1 JAN 2105	110	.00	.00	.00	0.	*	2 JAN 0935	260	.00	.00	.00	0.
1 JAN 2110	111	.00	.00	.00	0.	*	2 JAN 0940	261	.00	.00	.00	0.
1 JAN 2115	112	.00	.00	.00	0.	*	2 JAN 0945	262	.00	.00	.00	0.
1 JAN 2120	113	.01	.01	.00	0.	*	2 JAN 0950	263	.00	.00	.00	0.
1 JAN 2125	114	.01	.01	.00	0.	*	2 JAN 0955	264	.00	.00	.00	0.
1 JAN 2130	115	.01	.01	.00	0.	*	2 JAN 1000	265	.00	.00	.00	0.
1 JAN 2135	116	.01	.01	.00	0.	*	2 JAN 1005	266	.00	.00	.00	0.
1 JAN 2140	117	.01	.01	.00	0.	*	2 JAN 1010	267	.00	.00	.00	0.
1 JAN 2145	118	.01	.01	.00	0.	*	2 JAN 1015	268	.00	.00	.00	0.
1 JAN 2150	119	.01	.01	.00	0.	*	2 JAN 1020	269	.00	.00	.00	0.
1 JAN 2155	120	.01	.01	.00	0.	*	2 JAN 1025	270	.00	.00	.00	0.
1 JAN 2200	121	.01	.01	.00	0.	*	2 JAN 1030	271	.00	.00	.00	0.
1 JAN 2205	122	.01	.01	.00	0.	*	2 JAN 1035	272	.00	.00	.00	0.
1 JAN 2210	123	.01	.01	.00	0.	*	2 JAN 1040	273	.00	.00	.00	0.
1 JAN 2215	124	.01	.01	.00	0.	*	2 JAN 1045	274	.00	.00	.00	0.
1 JAN 2220	125	.01	.01	.00	0.	*	2 JAN 1050	275	.00	.00	.00	0.
1 JAN 2225	126	.01	.01	.00	0.	*	2 JAN 1055	276	.00	.00	.00	0.
1 JAN 2230	127	.01	.01	.00	0.	*	2 JAN 1100	277	.00	.00	.00	0.
1 JAN 2235	128	.01	.01	.00	0.	*	2 JAN 1105	278	.00	.00	.00	0.
1 JAN 2240	129	.01	.01	.00	0.	*	2 JAN 1110	279	.00	.00	.00	0.
1 JAN 2245	130	.01	.01	.00	0.	*	2 JAN 1115	280	.00	.00	.00	0.
1 JAN 2250	131	.01	.01	.00	0.	*	2 JAN 1120	281	.00	.00	.00	0.
1 JAN 2255	132	.01	.01	.00	0.	*	2 JAN 1125	282	.00	.00	.00	0.
1 JAN 2300	133	.01	.01	.00	0.	*	2 JAN 1130	283	.00	.00	.00	0.
1 JAN 2305	134	.01	.01	.00	0.	*	2 JAN 1135	284	.00	.00	.00	0.
1 JAN 2310	135	.01	.01	.00	0.	*	2 JAN 1140	285	.00	.00	.00	0.
1 JAN 2315	136	.01	.01	.00	0.	*	2 JAN 1145	286	.00	.00	.00	0.
1 JAN 2320	137	.01	.01	.00	0.	*	2 JAN 1150	287	.00	.00	.00	0.
1 JAN 2325	138	.01	.01	.00	0.	*	2 JAN 1155	288	.00	.00	.00	0.
1 JAN 2330	139	.01	.01	.00	0.	*	2 JAN 1200	289	.00	.00	.00	0.
1 JAN 2335	140	.01	.01	.00	0.	*	2 JAN 1205	290	.00	.00	.00	0.
1 JAN 2340	141	.01	.01	.00	0.	*	2 JAN 1210	291	.00	.00	.00	0.
1 JAN 2345	142	.01	.01	.00	0.	*	2 JAN 1215	292	.00	.00	.00	0.
1 JAN 2350	143	.01	.01	.00	0.	*	2 JAN 1220	293	.00	.00	.00	0.
1 JAN 2355	144	.01	.01	.00	0.	*	2 JAN 1225	294	.00	.00	.00	0.

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2 JAN 0000  145    .01    .01    .00        0.      *      2 JAN 1230  295    .00    .00    .00        0.
2 JAN 0005  146    .01    .01    .00        0.      *      2 JAN 1235  296    .00    .00    .00        0.
2 JAN 0010  147    .01    .01    .00        0.      *      2 JAN 1240  297    .00    .00    .00        0.
2 JAN 0015  148    .01    .01    .00        0.      *      2 JAN 1245  298    .00    .00    .00        0.
2 JAN 0020  149    .01    .01    .00        0.      *      2 JAN 1250  299    .00    .00    .00        0.
2 JAN 0025  150    .01    .01    .00        0.      *      2 JAN 1255  300    .00    .00    .00        0.
                                                     *
*****************************************************************************************************************

   TOTAL RAINFALL =    2.49, TOTAL LOSS =    2.11, TOTAL EXCESS =     .39

PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
  (CFS)       (HR)                  6-HR       24-HR       72-HR     24.92-HR
     9.      16.08       (CFS)       1.          0.          0.          0.
                       (INCHES)     .337        .385        .385        .385
                        (AC-FT)      1.          1.          1.          1.

                       CUMULATIVE AREA =     .03 SQ MI


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

          **************
          *            *
152 KK    *      DET   *     9B
          *            *
          **************
                     DETAIN BASIN 9B IN THE SUMP

            HYDROGRAPH ROUTING DATA

154 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

155 SA              AREA          .0       1.3       5.7       5.7

156 SQ          DISCHARGE         0.        0.        0.       20.

157 SE          ELEVATION      53.00     54.00     56.00     56.10

                                                          ***

                                        COMPUTED STORAGE-ELEVATION DATA

          STORAGE        .00       .43      6.91      7.48
        ELEVATION      53.00     54.00     56.00     56.10

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

                                        HYDROGRAPH AT STATION      DET

*****************************************************************************************************************
                                     *                                                  *
DA MON HRMN ORD  OUTFLOW  STORAGE   STAGE * DA MON HRMN ORD  OUTFLOW  STORAGE   STAGE * DA MON HRMN ORD  OUTFLOW  STORAGE   STAGE
```

1 JAN 1200	1	0.	6.9	56.0	*	1 JAN 2020 101	0.	6.9	56.0	*	2 JAN 0440 201	3.	7.0	56.0
1 JAN 1205	2	0.	6.9	56.0	*	1 JAN 2025 102	0.	6.9	56.0	*	2 JAN 0445 202	3.	7.0	56.0
1 JAN 1210	3	0.	6.9	56.0	*	1 JAN 2030 103	0.	6.9	56.0	*	2 JAN 0450 203	2.	7.0	56.0
1 JAN 1215	4	0.	6.9	56.0	*	1 JAN 2035 104	0.	6.9	56.0	*	2 JAN 0455 204	2.	7.0	56.0
1 JAN 1220	5	0.	6.9	56.0	*	1 JAN 2040 105	0.	6.9	56.0	*	2 JAN 0500 205	2.	7.0	56.0
1 JAN 1225	6	0.	6.9	56.0	*	1 JAN 2045 106	0.	6.9	56.0	*	2 JAN 0505 206	2.	7.0	56.0
1 JAN 1230	7	0.	6.9	56.0	*	1 JAN 2050 107	0.	6.9	56.0	*	2 JAN 0510 207	2.	7.0	56.0
1 JAN 1235	8	0.	6.9	56.0	*	1 JAN 2055 108	0.	6.9	56.0	*	2 JAN 0515 208	1.	7.0	56.0
1 JAN 1240	9	0.	6.9	56.0	*	1 JAN 2100 109	0.	6.9	56.0	*	2 JAN 0520 209	1.	7.0	56.0
1 JAN 1245	10	0.	6.9	56.0	*	1 JAN 2105 110	0.	6.9	56.0	*	2 JAN 0525 210	1.	6.9	56.0
1 JAN 1250	11	0.	6.9	56.0	*	1 JAN 2110 111	0.	6.9	56.0	*	2 JAN 0530 211	1.	6.9	56.0
1 JAN 1255	12	0.	6.9	56.0	*	1 JAN 2115 112	0.	6.9	56.0	*	2 JAN 0535 212	1.	6.9	56.0
1 JAN 1300	13	0.	6.9	56.0	*	1 JAN 2120 113	0.	6.9	56.0	*	2 JAN 0540 213	1.	6.9	56.0
1 JAN 1305	14	0.	6.9	56.0	*	1 JAN 2125 114	0.	6.9	56.0	*	2 JAN 0545 214	1.	6.9	56.0
1 JAN 1310	15	0.	6.9	56.0	*	1 JAN 2130 115	0.	6.9	56.0	*	2 JAN 0550 215	1.	6.9	56.0
1 JAN 1315	16	0.	6.9	56.0	*	1 JAN 2135 116	0.	6.9	56.0	*	2 JAN 0555 216	1.	6.9	56.0
1 JAN 1320	17	0.	6.9	56.0	*	1 JAN 2140 117	0.	6.9	56.0	*	2 JAN 0600 217	1.	6.9	56.0
1 JAN 1325	18	0.	6.9	56.0	*	1 JAN 2145 118	0.	6.9	56.0	*	2 JAN 0605 218	1.	6.9	56.0
1 JAN 1330	19	0.	6.9	56.0	*	1 JAN 2150 119	0.	6.9	56.0	*	2 JAN 0610 219	1.	6.9	56.0
1 JAN 1335	20	0.	6.9	56.0	*	1 JAN 2155 120	0.	6.9	56.0	*	2 JAN 0615 220	1.	6.9	56.0
1 JAN 1340	21	0.	6.9	56.0	*	1 JAN 2200 121	0.	6.9	56.0	*	2 JAN 0620 221	1.	6.9	56.0
1 JAN 1345	22	0.	6.9	56.0	*	1 JAN 2205 122	0.	6.9	56.0	*	2 JAN 0625 222	1.	6.9	56.0
1 JAN 1350	23	0.	6.9	56.0	*	1 JAN 2210 123	0.	6.9	56.0	*	2 JAN 0630 223	1.	6.9	56.0
1 JAN 1355	24	0.	6.9	56.0	*	1 JAN 2215 124	0.	6.9	56.0	*	2 JAN 0635 224	1.	6.9	56.0
1 JAN 1400	25	0.	6.9	56.0	*	1 JAN 2220 125	0.	6.9	56.0	*	2 JAN 0640 225	1.	6.9	56.0
1 JAN 1405	26	0.	6.9	56.0	*	1 JAN 2225 126	0.	6.9	56.0	*	2 JAN 0645 226	1.	6.9	56.0
1 JAN 1410	27	0.	6.9	56.0	*	1 JAN 2230 127	0.	6.9	56.0	*	2 JAN 0650 227	1.	6.9	56.0
1 JAN 1415	28	0.	6.9	56.0	*	1 JAN 2235 128	0.	6.9	56.0	*	2 JAN 0655 228	1.	6.9	56.0
1 JAN 1420	29	0.	6.9	56.0	*	1 JAN 2240 129	0.	6.9	56.0	*	2 JAN 0700 229	1.	6.9	56.0
1 JAN 1425	30	0.	6.9	56.0	*	1 JAN 2245 130	0.	6.9	56.0	*	2 JAN 0705 230	1.	6.9	56.0
1 JAN 1430	31	0.	6.9	56.0	*	1 JAN 2250 131	0.	6.9	56.0	*	2 JAN 0710 231	1.	6.9	56.0
1 JAN 1435	32	0.	6.9	56.0	*	1 JAN 2255 132	0.	6.9	56.0	*	2 JAN 0715 232	1.	6.9	56.0
1 JAN 1440	33	0.	6.9	56.0	*	1 JAN 2300 133	0.	6.9	56.0	*	2 JAN 0720 233	1.	6.9	56.0
1 JAN 1445	34	0.	6.9	56.0	*	1 JAN 2305 134	0.	6.9	56.0	*	2 JAN 0725 234	1.	6.9	56.0
1 JAN 1450	35	0.	6.9	56.0	*	1 JAN 2310 135	0.	6.9	56.0	*	2 JAN 0730 235	0.	6.9	56.0
1 JAN 1455	36	0.	6.9	56.0	*	1 JAN 2315 136	0.	6.9	56.0	*	2 JAN 0735 236	0.	6.9	56.0
1 JAN 1500	37	0.	6.9	56.0	*	1 JAN 2320 137	0.	6.9	56.0	*	2 JAN 0740 237	0.	6.9	56.0
1 JAN 1505	38	0.	6.9	56.0	*	1 JAN 2325 138	0.	6.9	56.0	*	2 JAN 0745 238	0.	6.9	56.0
1 JAN 1510	39	0.	6.9	56.0	*	1 JAN 2330 139	0.	6.9	56.0	*	2 JAN 0750 239	0.	6.9	56.0
1 JAN 1515	40	0.	6.9	56.0	*	1 JAN 2335 140	0.	6.9	56.0	*	2 JAN 0755 240	0.	6.9	56.0
1 JAN 1520	41	0.	6.9	56.0	*	1 JAN 2340 141	0.	6.9	56.0	*	2 JAN 0800 241	0.	6.9	56.0
1 JAN 1525	42	0.	6.9	56.0	*	1 JAN 2345 142	0.	6.9	56.0	*	2 JAN 0805 242	0.	6.9	56.0
1 JAN 1530	43	0.	6.9	56.0	*	1 JAN 2350 143	0.	6.9	56.0	*	2 JAN 0810 243	0.	6.9	56.0
1 JAN 1535	44	0.	6.9	56.0	*	1 JAN 2355 144	0.	6.9	56.0	*	2 JAN 0815 244	0.	6.9	56.0
1 JAN 1540	45	0.	6.9	56.0	*	2 JAN 0000 145	0.	6.9	56.0	*	2 JAN 0820 245	0.	6.9	56.0
1 JAN 1545	46	0.	6.9	56.0	*	2 JAN 0005 146	0.	6.9	56.0	*	2 JAN 0825 246	0.	6.9	56.0
1 JAN 1550	47	0.	6.9	56.0	*	2 JAN 0010 147	0.	6.9	56.0	*	2 JAN 0830 247	0.	6.9	56.0
1 JAN 1555	48	0.	6.9	56.0	*	2 JAN 0015 148	0.	6.9	56.0	*	2 JAN 0835 248	0.	6.9	56.0
1 JAN 1600	49	0.	6.9	56.0	*	2 JAN 0020 149	0.	6.9	56.0	*	2 JAN 0840 249	0.	6.9	56.0
1 JAN 1605	50	0.	6.9	56.0	*	2 JAN 0025 150	0.	6.9	56.0	*	2 JAN 0845 250	0.	6.9	56.0
1 JAN 1610	51	0.	6.9	56.0	*	2 JAN 0030 151	0.	6.9	56.0	*	2 JAN 0850 251	0.	6.9	56.0
1 JAN 1615	52	0.	6.9	56.0	*	2 JAN 0035 152	0.	6.9	56.0	*	2 JAN 0855 252	0.	6.9	56.0
1 JAN 1620	53	0.	6.9	56.0	*	2 JAN 0040 153	0.	6.9	56.0	*	2 JAN 0900 253	0.	6.9	56.0
1 JAN 1625	54	0.	6.9	56.0	*	2 JAN 0045 154	0.	6.9	56.0	*	2 JAN 0905 254	0.	6.9	56.0
1 JAN 1630	55	0.	6.9	56.0	*	2 JAN 0050 155	0.	6.9	56.0	*	2 JAN 0910 255	0.	6.9	56.0
1 JAN 1635	56	0.	6.9	56.0	*	2 JAN 0055 156	0.	6.9	56.0	*	2 JAN 0915 256	0.	6.9	56.0
1 JAN 1640	57	0.	6.9	56.0	*	2 JAN 0100 157	0.	6.9	56.0	*	2 JAN 0920 257	0.	6.9	56.0
1 JAN 1645	58	0.	6.9	56.0	*	2 JAN 0105 158	0.	6.9	56.0	*	2 JAN 0925 258	0.	6.9	56.0
1 JAN 1650	59	0.	6.9	56.0	*	2 JAN 0110 159	0.	6.9	56.0	*	2 JAN 0930 259	0.	6.9	56.0

1	JAN	1655	60	0.	6.9	56.0	*	2	JAN	0115	160	0.	6.9	56.0	*	2	JAN	0935	260	0.	6.9	56.0
1	JAN	1700	61	0.	6.9	56.0	*	2	JAN	0120	161	0.	6.9	56.0	*	2	JAN	0940	261	0.	6.9	56.0
1	JAN	1705	62	0.	6.9	56.0	*	2	JAN	0125	162	0.	6.9	56.0	*	2	JAN	0945	262	0.	6.9	56.0
1	JAN	1710	63	0.	6.9	56.0	*	2	JAN	0130	163	0.	6.9	56.0	*	2	JAN	0950	263	0.	6.9	56.0
1	JAN	1715	64	0.	6.9	56.0	*	2	JAN	0135	164	0.	6.9	56.0	*	2	JAN	0955	264	0.	6.9	56.0
1	JAN	1720	65	0.	6.9	56.0	*	2	JAN	0140	165	0.	6.9	56.0	*	2	JAN	1000	265	0.	6.9	56.0
1	JAN	1725	66	0.	6.9	56.0	*	2	JAN	0145	166	0.	6.9	56.0	*	2	JAN	1005	266	0.	6.9	56.0
1	JAN	1730	67	0.	6.9	56.0	*	2	JAN	0150	167	0.	6.9	56.0	*	2	JAN	1010	267	0.	6.9	56.0
1	JAN	1735	68	0.	6.9	56.0	*	2	JAN	0155	168	0.	6.9	56.0	*	2	JAN	1015	268	0.	6.9	56.0
1	JAN	1740	69	0.	6.9	56.0	*	2	JAN	0200	169	0.	6.9	56.0	*	2	JAN	1020	269	0.	6.9	56.0
1	JAN	1745	70	0.	6.9	56.0	*	2	JAN	0205	170	0.	6.9	56.0	*	2	JAN	1025	270	0.	6.9	56.0
1	JAN	1750	71	0.	6.9	56.0	*	2	JAN	0210	171	0.	6.9	56.0	*	2	JAN	1030	271	0.	6.9	56.0
1	JAN	1755	72	0.	6.9	56.0	*	2	JAN	0215	172	0.	6.9	56.0	*	2	JAN	1035	272	0.	6.9	56.0
1	JAN	1800	73	0.	6.9	56.0	*	2	JAN	0220	173	0.	6.9	56.0	*	2	JAN	1040	273	0.	6.9	56.0
1	JAN	1805	74	0.	6.9	56.0	*	2	JAN	0225	174	0.	6.9	56.0	*	2	JAN	1045	274	0.	6.9	56.0
1	JAN	1810	75	0.	6.9	56.0	*	2	JAN	0230	175	0.	6.9	56.0	*	2	JAN	1050	275	0.	6.9	56.0
1	JAN	1815	76	0.	6.9	56.0	*	2	JAN	0235	176	0.	6.9	56.0	*	2	JAN	1055	276	0.	6.9	56.0
1	JAN	1820	77	0.	6.9	56.0	*	2	JAN	0240	177	0.	6.9	56.0	*	2	JAN	1100	277	0.	6.9	56.0
1	JAN	1825	78	0.	6.9	56.0	*	2	JAN	0245	178	0.	6.9	56.0	*	2	JAN	1105	278	0.	6.9	56.0
1	JAN	1830	79	0.	6.9	56.0	*	2	JAN	0250	179	0.	6.9	56.0	*	2	JAN	1110	279	0.	6.9	56.0
1	JAN	1835	80	0.	6.9	56.0	*	2	JAN	0255	180	0.	6.9	56.0	*	2	JAN	1115	280	0.	6.9	56.0
1	JAN	1840	81	0.	6.9	56.0	*	2	JAN	0300	181	0.	6.9	56.0	*	2	JAN	1120	281	0.	6.9	56.0
1	JAN	1845	82	0.	6.9	56.0	*	2	JAN	0305	182	0.	6.9	56.0	*	2	JAN	1125	282	0.	6.9	56.0
1	JAN	1850	83	0.	6.9	56.0	*	2	JAN	0310	183	0.	6.9	56.0	*	2	JAN	1130	283	0.	6.9	56.0
1	JAN	1855	84	0.	6.9	56.0	*	2	JAN	0315	184	0.	6.9	56.0	*	2	JAN	1135	284	0.	6.9	56.0
1	JAN	1900	85	0.	6.9	56.0	*	2	JAN	0320	185	0.	6.9	56.0	*	2	JAN	1140	285	0.	6.9	56.0
1	JAN	1905	86	0.	6.9	56.0	*	2	JAN	0325	186	0.	6.9	56.0	*	2	JAN	1145	286	0.	6.9	56.0
1	JAN	1910	87	0.	6.9	56.0	*	2	JAN	0330	187	0.	6.9	56.0	*	2	JAN	1150	287	0.	6.9	56.0
1	JAN	1915	88	0.	6.9	56.0	*	2	JAN	0335	188	0.	6.9	56.0	*	2	JAN	1155	288	0.	6.9	56.0
1	JAN	1920	89	0.	6.9	56.0	*	2	JAN	0340	189	0.	6.9	56.0	*	2	JAN	1200	289	0.	6.9	56.0
1	JAN	1925	90	0.	6.9	56.0	*	2	JAN	0345	190	0.	6.9	56.0	*	2	JAN	1205	290	0.	6.9	56.0
1	JAN	1930	91	0.	6.9	56.0	*	2	JAN	0350	191	1.	6.9	56.0	*	2	JAN	1210	291	0.	6.9	56.0
1	JAN	1935	92	0.	6.9	56.0	*	2	JAN	0355	192	1.	6.9	56.0	*	2	JAN	1215	292	0.	6.9	56.0
1	JAN	1940	93	0.	6.9	56.0	*	2	JAN	0400	193	2.	7.0	56.0	*	2	JAN	1220	293	0.	6.9	56.0
1	JAN	1945	94	0.	6.9	56.0	*	2	JAN	0405	194	3.	7.0	56.0	*	2	JAN	1225	294	0.	6.9	56.0
1	JAN	1950	95	0.	6.9	56.0	*	2	JAN	0410	195	4.	7.0	56.0	*	2	JAN	1230	295	0.	6.9	56.0
1	JAN	1955	96	0.	6.9	56.0	*	2	JAN	0415	196	4.	7.0	56.0	*	2	JAN	1235	296	0.	6.9	56.0
1	JAN	2000	97	0.	6.9	56.0	*	2	JAN	0420	197	4.	7.0	56.0	*	2	JAN	1240	297	0.	6.9	56.0
1	JAN	2005	98	0.	6.9	56.0	*	2	JAN	0425	198	4.	7.0	56.0	*	2	JAN	1245	298	0.	6.9	56.0
1	JAN	2010	99	0.	6.9	56.0	*	2	JAN	0430	199	4.	7.0	56.0	*	2	JAN	1250	299	0.	6.9	56.0
1	JAN	2015	100	0.	6.9	56.0	*	2	JAN	0435	200	3.	7.0	56.0	*	2	JAN	1255	300	0.	6.9	56.0
							*								*							

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
4.	16.25	(CFS)	1.	0.	0.	0.
		(INCHES)	.335	.385	.385	.385
		(AC-FT)	1.	1.	1.	1.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
7.	16.25	7.	7.	7.	7.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
56.02	16.25	56.01	56.00	56.00	56.00

CUMULATIVE AREA = .03 SQ MI

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          *            *
158 KK    *          9 *
          *            *
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BASIN 9 DRAINING TO PUMP

SUBBASIN RUNOFF DATA

160 BA SUBBASIN CHARACTERISTICS

TAREA	.04	SUBBASIN AREA

PRECIPITATION DATA

27 PB STORM	2.49	BASIN TOTAL PRECIPITATION

27 PI INCREMENTAL PRECIPITATION PATTERN

.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.02	.02	.02	.02	.02	.02	.02
.02	.02	.02	.03	.03	.03	.03	.04	.05	.07
.10	.35	.06	.04	.03	.02	.02	.02	.02	.02
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00			

161 LS SCS LOSS RATE

STRTL	.90	INITIAL ABSTRACTION
CRVNBR	69.00	CURVE NUMBER
RTIMP	.00	PERCENT IMPERVIOUS AREA

162 UD SCS DIMENSIONLESS UNITGRAPH

TLAG	.20	LAG

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WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

UNIT HYDROGRAPH

14 END-OF-PERIOD ORDINATES

20. 64. 80. 64. 35. 20. 12. 7. 4. 2.

1. 1. 0. 0.

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HYDROGRAPH AT STATION 9

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DA MON HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	DA MON HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1 JAN 1200	1	.00	.00	.00	0.	2 JAN 0030	151	.01	.01	.00	0.
1 JAN 1205	2	.00	.00	.00	0.	2 JAN 0035	152	.01	.01	.00	0.
1 JAN 1210	3	.00	.00	.00	0.	2 JAN 0040	153	.01	.01	.00	0.
1 JAN 1215	4	.00	.00	.00	0.	2 JAN 0045	154	.01	.01	.00	0.
1 JAN 1220	5	.00	.00	.00	0.	2 JAN 0050	155	.01	.01	.00	0.
1 JAN 1225	6	.00	.00	.00	0.	2 JAN 0055	156	.01	.01	.00	0.
1 JAN 1230	7	.00	.00	.00	0.	2 JAN 0100	157	.01	.01	.00	0.
1 JAN 1235	8	.00	.00	.00	0.	2 JAN 0105	158	.01	.01	.00	0.
1 JAN 1240	9	.00	.00	.00	0.	2 JAN 0110	159	.01	.01	.00	0.
1 JAN 1245	10	.00	.00	.00	0.	2 JAN 0115	160	.01	.01	.00	0.
1 JAN 1250	11	.00	.00	.00	0.	2 JAN 0120	161	.01	.01	.00	0.
1 JAN 1255	12	.00	.00	.00	0.	2 JAN 0125	162	.01	.01	.00	0.
1 JAN 1300	13	.00	.00	.00	0.	2 JAN 0130	163	.01	.01	.00	0.
1 JAN 1305	14	.00	.00	.00	0.	2 JAN 0135	164	.01	.01	.00	0.
1 JAN 1310	15	.00	.00	.00	0.	2 JAN 0140	165	.01	.01	.00	0.
1 JAN 1315	16	.00	.00	.00	0.	2 JAN 0145	166	.01	.01	.00	0.
1 JAN 1320	17	.00	.00	.00	0.	2 JAN 0150	167	.01	.01	.00	0.
1 JAN 1325	18	.00	.00	.00	0.	2 JAN 0155	168	.01	.01	.00	0.
1 JAN 1330	19	.00	.00	.00	0.	2 JAN 0200	169	.01	.01	.00	0.
1 JAN 1335	20	.00	.00	.00	0.	2 JAN 0205	170	.01	.01	.00	0.
1 JAN 1340	21	.00	.00	.00	0.	2 JAN 0210	171	.01	.01	.00	0.
1 JAN 1345	22	.00	.00	.00	0.	2 JAN 0215	172	.01	.01	.00	0.
1 JAN 1350	23	.00	.00	.00	0.	2 JAN 0220	173	.01	.01	.00	0.
1 JAN 1355	24	.00	.00	.00	0.	2 JAN 0225	174	.01	.01	.00	0.
1 JAN 1400	25	.00	.00	.00	0.	2 JAN 0230	175	.02	.01	.00	0.
1 JAN 1405	26	.00	.00	.00	0.	2 JAN 0235	176	.02	.02	.00	0.
1 JAN 1410	27	.00	.00	.00	0.	2 JAN 0240	177	.02	.02	.00	0.
1 JAN 1415	28	.00	.00	.00	0.	2 JAN 0245	178	.02	.02	.00	0.
1 JAN 1420	29	.00	.00	.00	0.	2 JAN 0250	179	.02	.02	.00	0.
1 JAN 1425	30	.00	.00	.00	0.	2 JAN 0255	180	.02	.02	.00	0.
1 JAN 1430	31	.00	.00	.00	0.	2 JAN 0300	181	.02	.02	.00	0.
1 JAN 1435	32	.00	.00	.00	0.	2 JAN 0305	182	.02	.02	.00	0.
1 JAN 1440	33	.00	.00	.00	0.	2 JAN 0310	183	.02	.02	.00	0.
1 JAN 1445	34	.00	.00	.00	0.	2 JAN 0315	184	.02	.02	.00	0.
1 JAN 1450	35	.00	.00	.00	0.	2 JAN 0320	185	.03	.02	.00	0.
1 JAN 1455	36	.00	.00	.00	0.	2 JAN 0325	186	.03	.03	.00	1.
1 JAN 1500	37	.00	.00	.00	0.	2 JAN 0330	187	.03	.03	.00	1.
1 JAN 1505	38	.00	.00	.00	0.	2 JAN 0335	188	.03	.03	.00	1.
1 JAN 1510	39	.00	.00	.00	0.	2 JAN 0340	189	.04	.04	.01	1.
1 JAN 1515	40	.00	.00	.00	0.	2 JAN 0345	190	.05	.04	.01	1.
1 JAN 1520	41	.00	.00	.00	0.	2 JAN 0350	191	.07	.06	.01	2.
1 JAN 1525	42	.00	.00	.00	0.	2 JAN 0355	192	.10	.08	.02	2.

1 JAN 1530	43	.00	.00	.00	0.	*	2 JAN 0400	193	.35	.26	.09	5.
1 JAN 1535	44	.00	.00	.00	0.	*	2 JAN 0405	194	.06	.04	.02	9.
1 JAN 1540	45	.00	.00	.00	0.	*	2 JAN 0410	195	.04	.03	.01	11.
1 JAN 1545	46	.00	.00	.00	0.	*	2 JAN 0415	196	.03	.02	.01	9.
1 JAN 1550	47	.00	.00	.00	0.	*	2 JAN 0420	197	.02	.02	.01	7.
1 JAN 1555	48	.00	.00	.00	0.	*	2 JAN 0425	198	.02	.01	.01	5.
1 JAN 1600	49	.00	.00	.00	0.	*	2 JAN 0430	199	.02	.01	.01	4.
1 JAN 1605	50	.00	.00	.00	0.	*	2 JAN 0435	200	.02	.01	.01	3.
1 JAN 1610	51	.00	.00	.00	0.	*	2 JAN 0440	201	.02	.01	.01	3.
1 JAN 1615	52	.00	.00	.00	0.	*	2 JAN 0445	202	.01	.01	.01	2.
1 JAN 1620	53	.00	.00	.00	0.	*	2 JAN 0450	203	.01	.01	.01	2.
1 JAN 1625	54	.00	.00	.00	0.	*	2 JAN 0455	204	.01	.01	.00	2.
1 JAN 1630	55	.00	.00	.00	0.	*	2 JAN 0500	205	.01	.01	.00	2.
1 JAN 1635	56	.00	.00	.00	0.	*	2 JAN 0505	206	.01	.01	.00	2.
1 JAN 1640	57	.00	.00	.00	0.	*	2 JAN 0510	207	.01	.01	.00	1.
1 JAN 1645	58	.00	.00	.00	0.	*	2 JAN 0515	208	.01	.01	.00	1.
1 JAN 1650	59	.00	.00	.00	0.	*	2 JAN 0520	209	.01	.01	.00	1.
1 JAN 1655	60	.00	.00	.00	0.	*	2 JAN 0525	210	.01	.01	.00	1.
1 JAN 1700	61	.00	.00	.00	0.	*	2 JAN 0530	211	.01	.01	.00	1.
1 JAN 1705	62	.00	.00	.00	0.	*	2 JAN 0535	212	.01	.01	.00	1.
1 JAN 1710	63	.00	.00	.00	0.	*	2 JAN 0540	213	.01	.01	.00	1.
1 JAN 1715	64	.00	.00	.00	0.	*	2 JAN 0545	214	.01	.01	.00	1.
1 JAN 1720	65	.00	.00	.00	0.	*	2 JAN 0550	215	.01	.01	.00	1.
1 JAN 1725	66	.00	.00	.00	0.	*	2 JAN 0555	216	.01	.00	.00	1.
1 JAN 1730	67	.00	.00	.00	0.	*	2 JAN 0600	217	.01	.00	.00	1.
1 JAN 1735	68	.00	.00	.00	0.	*	2 JAN 0605	218	.01	.00	.00	1.
1 JAN 1740	69	.00	.00	.00	0.	*	2 JAN 0610	219	.01	.00	.00	1.
1 JAN 1745	70	.00	.00	.00	0.	*	2 JAN 0615	220	.01	.00	.00	1.
1 JAN 1750	71	.00	.00	.00	0.	*	2 JAN 0620	221	.01	.00	.00	1.
1 JAN 1755	72	.00	.00	.00	0.	*	2 JAN 0625	222	.01	.00	.00	1.
1 JAN 1800	73	.00	.00	.00	0.	*	2 JAN 0630	223	.01	.00	.00	1.
1 JAN 1805	74	.00	.00	.00	0.	*	2 JAN 0635	224	.01	.00	.00	1.
1 JAN 1810	75	.00	.00	.00	0.	*	2 JAN 0640	225	.01	.00	.00	1.
1 JAN 1815	76	.00	.00	.00	0.	*	2 JAN 0645	226	.01	.00	.00	1.
1 JAN 1820	77	.00	.00	.00	0.	*	2 JAN 0650	227	.01	.00	.00	1.
1 JAN 1825	78	.00	.00	.00	0.	*	2 JAN 0655	228	.01	.00	.00	1.
1 JAN 1830	79	.00	.00	.00	0.	*	2 JAN 0700	229	.01	.00	.00	1.
1 JAN 1835	80	.00	.00	.00	0.	*	2 JAN 0705	230	.01	.00	.00	1.
1 JAN 1840	81	.00	.00	.00	0.	*	2 JAN 0710	231	.01	.00	.00	1.
1 JAN 1845	82	.00	.00	.00	0.	*	2 JAN 0715	232	.01	.00	.00	1.
1 JAN 1850	83	.00	.00	.00	0.	*	2 JAN 0720	233	.01	.00	.00	1.
1 JAN 1855	84	.00	.00	.00	0.	*	2 JAN 0725	234	.00	.00	.00	1.
1 JAN 1900	85	.00	.00	.00	0.	*	2 JAN 0730	235	.00	.00	.00	1.
1 JAN 1905	86	.00	.00	.00	0.	*	2 JAN 0735	236	.00	.00	.00	1.
1 JAN 1910	87	.00	.00	.00	0.	*	2 JAN 0740	237	.00	.00	.00	1.
1 JAN 1915	88	.00	.00	.00	0.	*	2 JAN 0745	238	.00	.00	.00	1.
1 JAN 1920	89	.00	.00	.00	0.	*	2 JAN 0750	239	.00	.00	.00	1.
1 JAN 1925	90	.00	.00	.00	0.	*	2 JAN 0755	240	.00	.00	.00	1.
1 JAN 1930	91	.00	.00	.00	0.	*	2 JAN 0800	241	.00	.00	.00	1.
1 JAN 1935	92	.00	.00	.00	0.	*	2 JAN 0805	242	.00	.00	.00	1.
1 JAN 1940	93	.00	.00	.00	0.	*	2 JAN 0810	243	.00	.00	.00	1.
1 JAN 1945	94	.00	.00	.00	0.	*	2 JAN 0815	244	.00	.00	.00	1.
1 JAN 1950	95	.00	.00	.00	0.	*	2 JAN 0820	245	.00	.00	.00	1.
1 JAN 1955	96	.00	.00	.00	0.	*	2 JAN 0825	246	.00	.00	.00	1.
1 JAN 2000	97	.00	.00	.00	0.	*	2 JAN 0830	247	.00	.00	.00	1.
1 JAN 2005	98	.00	.00	.00	0.	*	2 JAN 0835	248	.00	.00	.00	1.
1 JAN 2010	99	.00	.00	.00	0.	*	2 JAN 0840	249	.00	.00	.00	1.
1 JAN 2015	100	.00	.00	.00	0.	*	2 JAN 0845	250	.00	.00	.00	1.
1 JAN 2020	101	.00	.00	.00	0.	*	2 JAN 0850	251	.00	.00	.00	1.
1 JAN 2025	102	.00	.00	.00	0.	*	2 JAN 0855	252	.00	.00	.00	1.

1 JAN 2030	103	.00	.00	.00	0.	*	2 JAN 0900	253	.00	.00	.00	1.
1 JAN 2035	104	.00	.00	.00	0.	*	2 JAN 0905	254	.00	.00	.00	1.
1 JAN 2040	105	.00	.00	.00	0.	*	2 JAN 0910	255	.00	.00	.00	1.
1 JAN 2045	106	.00	.00	.00	0.	*	2 JAN 0915	256	.00	.00	.00	1.
1 JAN 2050	107	.00	.00	.00	0.	*	2 JAN 0920	257	.00	.00	.00	1.
1 JAN 2055	108	.00	.00	.00	0.	*	2 JAN 0925	258	.00	.00	.00	1.
1 JAN 2100	109	.00	.00	.00	0.	*	2 JAN 0930	259	.00	.00	.00	0.
1 JAN 2105	110	.00	.00	.00	0.	*	2 JAN 0935	260	.00	.00	.00	0.
1 JAN 2110	111	.00	.00	.00	0.	*	2 JAN 0940	261	.00	.00	.00	0.
1 JAN 2115	112	.00	.00	.00	0.	*	2 JAN 0945	262	.00	.00	.00	0.
1 JAN 2120	113	.01	.01	.00	0.	*	2 JAN 0950	263	.00	.00	.00	0.
1 JAN 2125	114	.01	.01	.00	0.	*	2 JAN 0955	264	.00	.00	.00	0.
1 JAN 2130	115	.01	.01	.00	0.	*	2 JAN 1000	265	.00	.00	.00	0.
1 JAN 2135	116	.01	.01	.00	0.	*	2 JAN 1005	266	.00	.00	.00	0.
1 JAN 2140	117	.01	.01	.00	0.	*	2 JAN 1010	267	.00	.00	.00	0.
1 JAN 2145	118	.01	.01	.00	0.	*	2 JAN 1015	268	.00	.00	.00	0.
1 JAN 2150	119	.01	.01	.00	0.	*	2 JAN 1020	269	.00	.00	.00	0.
1 JAN 2155	120	.01	.01	.00	0.	*	2 JAN 1025	270	.00	.00	.00	0.
1 JAN 2200	121	.01	.01	.00	0.	*	2 JAN 1030	271	.00	.00	.00	0.
1 JAN 2205	122	.01	.01	.00	0.	*	2 JAN 1035	272	.00	.00	.00	0.
1 JAN 2210	123	.01	.01	.00	0.	*	2 JAN 1040	273	.00	.00	.00	0.
1 JAN 2215	124	.01	.01	.00	0.	*	2 JAN 1045	274	.00	.00	.00	0.
1 JAN 2220	125	.01	.01	.00	0.	*	2 JAN 1050	275	.00	.00	.00	0.
1 JAN 2225	126	.01	.01	.00	0.	*	2 JAN 1055	276	.00	.00	.00	0.
1 JAN 2230	127	.01	.01	.00	0.	*	2 JAN 1100	277	.00	.00	.00	0.
1 JAN 2235	128	.01	.01	.00	0.	*	2 JAN 1105	278	.00	.00	.00	0.
1 JAN 2240	129	.01	.01	.00	0.	*	2 JAN 1110	279	.00	.00	.00	0.
1 JAN 2245	130	.01	.01	.00	0.	*	2 JAN 1115	280	.00	.00	.00	0.
1 JAN 2250	131	.01	.01	.00	0.	*	2 JAN 1120	281	.00	.00	.00	0.
1 JAN 2255	132	.01	.01	.00	0.	*	2 JAN 1125	282	.00	.00	.00	0.
1 JAN 2300	133	.01	.01	.00	0.	*	2 JAN 1130	283	.00	.00	.00	0.
1 JAN 2305	134	.01	.01	.00	0.	*	2 JAN 1135	284	.00	.00	.00	0.
1 JAN 2310	135	.01	.01	.00	0.	*	2 JAN 1140	285	.00	.00	.00	0.
1 JAN 2315	136	.01	.01	.00	0.	*	2 JAN 1145	286	.00	.00	.00	0.
1 JAN 2320	137	.01	.01	.00	0.	*	2 JAN 1150	287	.00	.00	.00	0.
1 JAN 2325	138	.01	.01	.00	0.	*	2 JAN 1155	288	.00	.00	.00	0.
1 JAN 2330	139	.01	.01	.00	0.	*	2 JAN 1200	289	.00	.00	.00	0.
1 JAN 2335	140	.01	.01	.00	0.	*	2 JAN 1205	290	.00	.00	.00	0.
1 JAN 2340	141	.01	.01	.00	0.	*	2 JAN 1210	291	.00	.00	.00	0.
1 JAN 2345	142	.01	.01	.00	0.	*	2 JAN 1215	292	.00	.00	.00	0.
1 JAN 2350	143	.01	.01	.00	0.	*	2 JAN 1220	293	.00	.00	.00	0.
1 JAN 2355	144	.01	.01	.00	0.	*	2 JAN 1225	294	.00	.00	.00	0.
2 JAN 0000	145	.01	.01	.00	0.	*	2 JAN 1230	295	.00	.00	.00	0.
2 JAN 0005	146	.01	.01	.00	0.	*	2 JAN 1235	296	.00	.00	.00	0.
2 JAN 0010	147	.01	.01	.00	0.	*	2 JAN 1240	297	.00	.00	.00	0.
2 JAN 0015	148	.01	.01	.00	0.	*	2 JAN 1245	298	.00	.00	.00	0.
2 JAN 0020	149	.01	.01	.00	0.	*	2 JAN 1250	299	.00	.00	.00	0.
2 JAN 0025	150	.01	.01	.00	0.	*	2 JAN 1255	300	.00	.00	.00	0.
						*						

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TOTAL RAINFALL = 2.49, TOTAL LOSS = 2.08, TOTAL EXCESS = .42

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
11.	16.17	(CFS)	2.	0.	0.	0.
		(INCHES)	.364	.418	.418	.418
		(AC-FT)	1.	1.	1.	1.

CUMULATIVE AREA = .04 SQ MI

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          **************
          *            *
163 KK    *     CON_2  *
          *            *
          **************
                    Q DRAINING TO THE PUMP

165 HC          HYDROGRAPH COMBINATION
                     ICOMP          3  NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION CON_2
SUM OF 3 HYDROGRAPHS

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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 JAN 1200	1	0.	1 JAN 1815	76	0.	2 JAN 0030	151	0.	2 JAN 0645	226	2.
1 JAN 1205	2	0.	1 JAN 1820	77	0.	2 JAN 0035	152	0.	2 JAN 0650	227	2.
1 JAN 1210	3	0.	1 JAN 1825	78	0.	2 JAN 0040	153	0.	2 JAN 0655	228	2.
1 JAN 1215	4	0.	1 JAN 1830	79	0.	2 JAN 0045	154	0.	2 JAN 0700	229	2.
1 JAN 1220	5	0.	1 JAN 1835	80	0.	2 JAN 0050	155	0.	2 JAN 0705	230	2.
1 JAN 1225	6	0.	1 JAN 1840	81	0.	2 JAN 0055	156	0.	2 JAN 0710	231	2.
1 JAN 1230	7	0.	1 JAN 1845	82	0.	2 JAN 0100	157	0.	2 JAN 0715	232	2.
1 JAN 1235	8	0.	1 JAN 1850	83	0.	2 JAN 0105	158	0.	2 JAN 0720	233	2.
1 JAN 1240	9	0.	1 JAN 1855	84	0.	2 JAN 0110	159	0.	2 JAN 0725	234	2.
1 JAN 1245	10	0.	1 JAN 1900	85	0.	2 JAN 0115	160	0.	2 JAN 0730	235	1.
1 JAN 1250	11	0.	1 JAN 1905	86	0.	2 JAN 0120	161	0.	2 JAN 0735	236	1.
1 JAN 1255	12	0.	1 JAN 1910	87	0.	2 JAN 0125	162	0.	2 JAN 0740	237	1.
1 JAN 1300	13	0.	1 JAN 1915	88	0.	2 JAN 0130	163	0.	2 JAN 0745	238	1.
1 JAN 1305	14	0.	1 JAN 1920	89	0.	2 JAN 0135	164	0.	2 JAN 0750	239	1.
1 JAN 1310	15	0.	1 JAN 1925	90	0.	2 JAN 0140	165	0.	2 JAN 0755	240	1.
1 JAN 1315	16	0.	1 JAN 1930	91	0.	2 JAN 0145	166	0.	2 JAN 0800	241	1.
1 JAN 1320	17	0.	1 JAN 1935	92	0.	2 JAN 0150	167	0.	2 JAN 0805	242	1.
1 JAN 1325	18	0.	1 JAN 1940	93	0.	2 JAN 0155	168	0.	2 JAN 0810	243	1.
1 JAN 1330	19	0.	1 JAN 1945	94	0.	2 JAN 0200	169	0.	2 JAN 0815	244	1.
1 JAN 1335	20	0.	1 JAN 1950	95	0.	2 JAN 0205	170	0.	2 JAN 0820	245	1.
1 JAN 1340	21	0.	1 JAN 1955	96	0.	2 JAN 0210	171	0.	2 JAN 0825	246	1.
1 JAN 1345	22	0.	1 JAN 2000	97	0.	2 JAN 0215	172	0.	2 JAN 0830	247	1.
1 JAN 1350	23	0.	1 JAN 2005	98	0.	2 JAN 0220	173	0.	2 JAN 0835	248	1.
1 JAN 1355	24	0.	1 JAN 2010	99	0.	2 JAN 0225	174	0.	2 JAN 0840	249	1.
1 JAN 1400	25	0.	1 JAN 2015	100	0.	2 JAN 0230	175	0.	2 JAN 0845	250	1.
1 JAN 1405	26	0.	1 JAN 2020	101	0.	2 JAN 0235	176	0.	2 JAN 0850	251	1.
1 JAN 1410	27	0.	1 JAN 2025	102	0.	2 JAN 0240	177	0.	2 JAN 0855	252	1.
1 JAN 1415	28	0.	1 JAN 2030	103	0.	2 JAN 0245	178	0.	2 JAN 0900	253	1.
1 JAN 1420	29	0.	1 JAN 2035	104	0.	2 JAN 0250	179	0.	2 JAN 0905	254	1.
1 JAN 1425	30	0.	1 JAN 2040	105	0.	2 JAN 0255	180	0.	2 JAN 0910	255	1.
1 JAN 1430	31	0.	1 JAN 2045	106	0.	2 JAN 0300	181	0.	2 JAN 0915	256	1.
1 JAN 1435	32	0.	1 JAN 2050	107	0.	2 JAN 0305	182	0.	2 JAN 0920	257	1.

1 JAN 1440	33	0.	*	1 JAN 2055	108	0.	*	2 JAN 0310	183	0.	*	2 JAN 0925	258	1.
1 JAN 1445	34	0.	*	1 JAN 2100	109	0.	*	2 JAN 0315	184	1.	*	2 JAN 0930	259	1.
1 JAN 1450	35	0.	*	1 JAN 2105	110	0.	*	2 JAN 0320	185	1.	*	2 JAN 0935	260	1.
1 JAN 1455	36	0.	*	1 JAN 2110	111	0.	*	2 JAN 0325	186	1.	*	2 JAN 0940	261	1.
1 JAN 1500	37	0.	*	1 JAN 2115	112	0.	*	2 JAN 0330	187	1.	*	2 JAN 0945	262	1.
1 JAN 1505	38	0.	*	1 JAN 2120	113	0.	*	2 JAN 0335	188	1.	*	2 JAN 0950	263	1.
1 JAN 1510	39	0.	*	1 JAN 2125	114	0.	*	2 JAN 0340	189	2.	*	2 JAN 0955	264	1.
1 JAN 1515	40	0.	*	1 JAN 2130	115	0.	*	2 JAN 0345	190	2.	*	2 JAN 1000	265	1.
1 JAN 1520	41	0.	*	1 JAN 2135	116	0.	*	2 JAN 0350	191	3.	*	2 JAN 1005	266	1.
1 JAN 1525	42	0.	*	1 JAN 2140	117	0.	*	2 JAN 0355	192	4.	*	2 JAN 1010	267	1.
1 JAN 1530	43	0.	*	1 JAN 2145	118	0.	*	2 JAN 0400	193	9.	*	2 JAN 1015	268	1.
1 JAN 1535	44	0.	*	1 JAN 2150	119	0.	*	2 JAN 0405	194	16.	*	2 JAN 1020	269	1.
1 JAN 1540	45	0.	*	1 JAN 2155	120	0.	*	2 JAN 0410	195	20.	*	2 JAN 1025	270	1.
1 JAN 1545	46	0.	*	1 JAN 2200	121	0.	*	2 JAN 0415	196	19.	*	2 JAN 1030	271	1.
1 JAN 1550	47	0.	*	1 JAN 2205	122	0.	*	2 JAN 0420	197	15.	*	2 JAN 1035	272	1.
1 JAN 1555	48	0.	*	1 JAN 2210	123	0.	*	2 JAN 0425	198	12.	*	2 JAN 1040	273	1.
1 JAN 1600	49	0.	*	1 JAN 2215	124	0.	*	2 JAN 0430	199	10.	*	2 JAN 1045	274	1.
1 JAN 1605	50	0.	*	1 JAN 2220	125	0.	*	2 JAN 0435	200	8.	*	2 JAN 1050	275	1.
1 JAN 1610	51	0.	*	1 JAN 2225	126	0.	*	2 JAN 0440	201	7.	*	2 JAN 1055	276	1.
1 JAN 1615	52	0.	*	1 JAN 2230	127	0.	*	2 JAN 0445	202	6.	*	2 JAN 1100	277	1.
1 JAN 1620	53	0.	*	1 JAN 2235	128	0.	*	2 JAN 0450	203	5.	*	2 JAN 1105	278	1.
1 JAN 1625	54	0.	*	1 JAN 2240	129	0.	*	2 JAN 0455	204	5.	*	2 JAN 1110	279	1.
1 JAN 1630	55	0.	*	1 JAN 2245	130	0.	*	2 JAN 0500	205	4.	*	2 JAN 1115	280	1.
1 JAN 1635	56	0.	*	1 JAN 2250	131	0.	*	2 JAN 0505	206	4.	*	2 JAN 1120	281	1.
1 JAN 1640	57	0.	*	1 JAN 2255	132	0.	*	2 JAN 0510	207	4.	*	2 JAN 1125	282	1.
1 JAN 1645	58	0.	*	1 JAN 2300	133	0.	*	2 JAN 0515	208	4.	*	2 JAN 1130	283	1.
1 JAN 1650	59	0.	*	1 JAN 2305	134	0.	*	2 JAN 0520	209	3.	*	2 JAN 1135	284	1.
1 JAN 1655	60	0.	*	1 JAN 2310	135	0.	*	2 JAN 0525	210	3.	*	2 JAN 1140	285	1.
1 JAN 1700	61	0.	*	1 JAN 2315	136	0.	*	2 JAN 0530	211	3.	*	2 JAN 1145	286	1.
1 JAN 1705	62	0.	*	1 JAN 2320	137	0.	*	2 JAN 0535	212	3.	*	2 JAN 1150	287	1.
1 JAN 1710	63	0.	*	1 JAN 2325	138	0.	*	2 JAN 0540	213	3.	*	2 JAN 1155	288	1.
1 JAN 1715	64	0.	*	1 JAN 2330	139	0.	*	2 JAN 0545	214	3.	*	2 JAN 1200	289	1.
1 JAN 1720	65	0.	*	1 JAN 2335	140	0.	*	2 JAN 0550	215	3.	*	2 JAN 1205	290	1.
1 JAN 1725	66	0.	*	1 JAN 2340	141	0.	*	2 JAN 0555	216	2.	*	2 JAN 1210	291	1.
1 JAN 1730	67	0.	*	1 JAN 2345	142	0.	*	2 JAN 0600	217	2.	*	2 JAN 1215	292	0.
1 JAN 1735	68	0.	*	1 JAN 2350	143	0.	*	2 JAN 0605	218	2.	*	2 JAN 1220	293	0.
1 JAN 1740	69	0.	*	1 JAN 2355	144	0.	*	2 JAN 0610	219	2.	*	2 JAN 1225	294	0.
1 JAN 1745	70	0.	*	2 JAN 0000	145	0.	*	2 JAN 0615	220	2.	*	2 JAN 1230	295	0.
1 JAN 1750	71	0.	*	2 JAN 0005	146	0.	*	2 JAN 0620	221	2.	*	2 JAN 1235	296	0.
1 JAN 1755	72	0.	*	2 JAN 0010	147	0.	*	2 JAN 0625	222	2.	*	2 JAN 1240	297	0.
1 JAN 1800	73	0.	*	2 JAN 0015	148	0.	*	2 JAN 0630	223	2.	*	2 JAN 1245	298	0.
1 JAN 1805	74	0.	*	2 JAN 0020	149	0.	*	2 JAN 0635	224	2.	*	2 JAN 1250	299	0.
1 JAN 1810	75	0.	*	2 JAN 0025	150	0.	*	2 JAN 0640	225	2.	*	2 JAN 1255	300	0.

PEAK FLOW	TIME				MAXIMUM AVERAGE FLOW	
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
20.	16.17	(CFS)	3.	1.	1.	1.
		(INCHES)	.354	.407	.407	.407
		(AC-FT)	2.	2.	2.	2.

CUMULATIVE AREA = .09 SQ MI

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          **************
          *            *
166 KK    *     PUMP   *
          *            *
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DETAIN FOR PUMP STATION / BEGIN 10" PIPE AT "CONNECTION 2"
PUMP CAPACITY IS 1.7 CFS
ASSUME PUMP TURNS ON IMMEDIATELY (EL. 50.1)

HYDROGRAPH ROUTING DATA

```
170 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

171 SA            AREA          .0        .0        .1       1.5       2.9       2.9       4.7

172 SQ        DISCHARGE         0.        2.        2.        2.        2.        2.        2.

173 SE        ELEVATION      50.00     50.10     52.00     53.00     54.00     54.10     56.00
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COMPUTED STORAGE-ELEVATION DATA

STORAGE	.00	.00	.05	.67	2.83	3.12	10.21
ELEVATION	50.00	50.10	52.00	53.00	54.00	54.10	56.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 0. TO 2.
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

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HYDROGRAPH AT STATION PUMP

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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	JAN	1200	1	0.	.0	50.0	1	JAN	2020	101	0.	.0	50.0	2	JAN	0440	201	2.	.7	53.0
1	JAN	1205	2	0.	.0	50.0	1	JAN	2025	102	0.	.0	50.0	2	JAN	0445	202	2.	.7	53.0
1	JAN	1210	3	0.	.0	50.0	1	JAN	2030	103	0.	.0	50.0	2	JAN	0450	203	2.	.8	53.0
1	JAN	1215	4	0.	.0	50.0	1	JAN	2035	104	0.	.0	50.0	2	JAN	0455	204	2.	.8	53.0
1	JAN	1220	5	0.	.0	50.0	1	JAN	2040	105	0.	.0	50.0	2	JAN	0500	205	2.	.8	53.1
1	JAN	1225	6	0.	.0	50.0	1	JAN	2045	106	0.	.0	50.0	2	JAN	0505	206	2.	.8	53.1
1	JAN	1230	7	0.	.0	50.0	1	JAN	2050	107	0.	.0	50.0	2	JAN	0510	207	2.	.8	53.1
1	JAN	1235	8	0.	.0	50.0	1	JAN	2055	108	0.	.0	50.0	2	JAN	0515	208	2.	.8	53.1
1	JAN	1240	9	0.	.0	50.0	1	JAN	2100	109	0.	.0	50.0	2	JAN	0520	209	2.	.9	53.1
1	JAN	1245	10	0.	.0	50.0	1	JAN	2105	110	0.	.0	50.0	2	JAN	0525	210	2.	.9	53.1
1	JAN	1250	11	0.	.0	50.0	1	JAN	2110	111	0.	.0	50.0	2	JAN	0530	211	2.	.9	53.1
1	JAN	1255	12	0.	.0	50.0	1	JAN	2115	112	0.	.0	50.0	2	JAN	0535	212	2.	.9	53.1
1	JAN	1300	13	0.	.0	50.0	1	JAN	2120	113	0.	.0	50.0	2	JAN	0540	213	2.	.9	53.1
1	JAN	1305	14	0.	.0	50.0	1	JAN	2125	114	0.	.0	50.0	2	JAN	0545	214	2.	.9	53.1
1	JAN	1310	15	0.	.0	50.0	1	JAN	2130	115	0.	.0	50.0	2	JAN	0550	215	2.	.9	53.1
1	JAN	1315	16	0.	.0	50.0	1	JAN	2135	116	0.	.0	50.0	2	JAN	0555	216	2.	.9	53.1
1	JAN	1320	17	0.	.0	50.0	1	JAN	2140	117	0.	.0	50.0	2	JAN	0600	217	2.	.9	53.1
1	JAN	1325	18	0.	.0	50.0	1	JAN	2145	118	0.	.0	50.0	2	JAN	0605	218	2.	.9	53.1

1 JAN 1330	19	0.	.0	50.0 *	1 JAN 2150 119	0.	.0	50.0 *	2 JAN 0610 219	2.	.9	53.1
1 JAN 1335	20	0.	.0	50.0 *	1 JAN 2155 120	0.	.0	50.0 *	2 JAN 0615 220	2.	.9	53.1
1 JAN 1340	21	0.	.0	50.0 *	1 JAN 2200 121	0.	.0	50.0 *	2 JAN 0620 221	2.	.9	53.1
1 JAN 1345	22	0.	.0	50.0 *	1 JAN 2205 122	0.	.0	50.0 *	2 JAN 0625 222	2.	.9	53.1
1 JAN 1350	23	0.	.0	50.0 *	1 JAN 2210 123	0.	.0	50.0 *	2 JAN 0630 223	2.	.9	53.1
1 JAN 1355	24	0.	.0	50.0 *	1 JAN 2215 124	0.	.0	50.0 *	2 JAN 0635 224	2.	.9	53.1
1 JAN 1400	25	0.	.0	50.0 *	1 JAN 2220 125	0.	.0	50.0 *	2 JAN 0640 225	2.	.9	53.1
1 JAN 1405	26	0.	.0	50.0 *	1 JAN 2225 126	0.	.0	50.0 *	2 JAN 0645 226	2.	.9	53.1
1 JAN 1410	27	0.	.0	50.0 *	1 JAN 2230 127	0.	.0	50.0 *	2 JAN 0650 227	2.	.9	53.1
1 JAN 1415	28	0.	.0	50.0 *	1 JAN 2235 128	0.	.0	50.0 *	2 JAN 0655 228	2.	.9	53.1
1 JAN 1420	29	0.	.0	50.0 *	1 JAN 2240 129	0.	.0	50.0 *	2 JAN 0700 229	2.	.9	53.1
1 JAN 1425	30	0.	.0	50.0 *	1 JAN 2245 130	0.	.0	50.0 *	2 JAN 0705 230	2.	.9	53.1
1 JAN 1430	31	0.	.0	50.0 *	1 JAN 2250 131	0.	.0	50.0 *	2 JAN 0710 231	2.	.9	53.1
1 JAN 1435	32	0.	.0	50.0 *	1 JAN 2255 132	0.	.0	50.0 *	2 JAN 0715 232	2.	.9	53.1
1 JAN 1440	33	0.	.0	50.0 *	1 JAN 2300 133	0.	.0	50.0 *	2 JAN 0720 233	2.	.9	53.1
1 JAN 1445	34	0.	.0	50.0 *	1 JAN 2305 134	0.	.0	50.0 *	2 JAN 0725 234	2.	.9	53.1
1 JAN 1450	35	0.	.0	50.0 *	1 JAN 2310 135	0.	.0	50.0 *	2 JAN 0730 235	2.	.9	53.1
1 JAN 1455	36	0.	.0	50.0 *	1 JAN 2315 136	0.	.0	50.0 *	2 JAN 0735 236	2.	.9	53.1
1 JAN 1500	37	0.	.0	50.0 *	1 JAN 2320 137	0.	.0	50.0 *	2 JAN 0740 237	2.	.9	53.1
1 JAN 1505	38	0.	.0	50.0 *	1 JAN 2325 138	0.	.0	50.0 *	2 JAN 0745 238	2.	.9	53.1
1 JAN 1510	39	0.	.0	50.0 *	1 JAN 2330 139	0.	.0	50.0 *	2 JAN 0750 239	2.	.9	53.1
1 JAN 1515	40	0.	.0	50.0 *	1 JAN 2335 140	0.	.0	50.0 *	2 JAN 0755 240	2.	.9	53.1
1 JAN 1520	41	0.	.0	50.0 *	1 JAN 2340 141	0.	.0	50.0 *	2 JAN 0800 241	2.	.9	53.1
1 JAN 1525	42	0.	.0	50.0 *	1 JAN 2345 142	0.	.0	50.0 *	2 JAN 0805 242	2.	.9	53.1
1 JAN 1530	43	0.	.0	50.0 *	1 JAN 2350 143	0.	.0	50.0 *	2 JAN 0810 243	2.	.9	53.1
1 JAN 1535	44	0.	.0	50.0 *	1 JAN 2355 144	0.	.0	50.0 *	2 JAN 0815 244	2.	.9	53.1
1 JAN 1540	45	0.	.0	50.0 *	2 JAN 0000 145	0.	.0	50.0 *	2 JAN 0820 245	2.	.9	53.1
1 JAN 1545	46	0.	.0	50.0 *	2 JAN 0005 146	0.	.0	50.0 *	2 JAN 0825 246	2.	.9	53.1
1 JAN 1550	47	0.	.0	50.0 *	2 JAN 0010 147	0.	.0	50.0 *	2 JAN 0830 247	2.	.9	53.1
1 JAN 1555	48	0.	.0	50.0 *	2 JAN 0015 148	0.	.0	50.0 *	2 JAN 0835 248	2.	.9	53.1
1 JAN 1600	49	0.	.0	50.0 *	2 JAN 0020 149	0.	.0	50.0 *	2 JAN 0840 249	2.	.9	53.1
1 JAN 1605	50	0.	.0	50.0 *	2 JAN 0025 150	0.	.0	50.0 *	2 JAN 0845 250	2.	.9	53.1
1 JAN 1610	51	0.	.0	50.0 *	2 JAN 0030 151	0.	.0	50.0 *	2 JAN 0850 251	2.	.9	53.1
1 JAN 1615	52	0.	.0	50.0 *	2 JAN 0035 152	0.	.0	50.0 *	2 JAN 0855 252	2.	.9	53.1
1 JAN 1620	53	0.	.0	50.0 *	2 JAN 0040 153	0.	.0	50.0 *	2 JAN 0900 253	2.	.9	53.1
1 JAN 1625	54	0.	.0	50.0 *	2 JAN 0045 154	0.	.0	50.0 *	2 JAN 0905 254	2.	.9	53.1
1 JAN 1630	55	0.	.0	50.0 *	2 JAN 0050 155	0.	.0	50.0 *	2 JAN 0910 255	2.	.9	53.1
1 JAN 1635	56	0.	.0	50.0 *	2 JAN 0055 156	0.	.0	50.0 *	2 JAN 0915 256	2.	.9	53.1
1 JAN 1640	57	0.	.0	50.0 *	2 JAN 0100 157	0.	.0	50.0 *	2 JAN 0920 257	2.	.9	53.1
1 JAN 1645	58	0.	.0	50.0 *	2 JAN 0105 158	0.	.0	50.0 *	2 JAN 0925 258	2.	.9	53.1
1 JAN 1650	59	0.	.0	50.0 *	2 JAN 0110 159	0.	.0	50.0 *	2 JAN 0930 259	2.	.9	53.1
1 JAN 1655	60	0.	.0	50.0 *	2 JAN 0115 160	0.	.0	50.0 *	2 JAN 0935 260	2.	.9	53.1
1 JAN 1700	61	0.	.0	50.0 *	2 JAN 0120 161	0.	.0	50.0 *	2 JAN 0940 261	2.	.9	53.1
1 JAN 1705	62	0.	.0	50.0 *	2 JAN 0125 162	0.	.0	50.0 *	2 JAN 0945 262	2.	.8	53.1
1 JAN 1710	63	0.	.0	50.0 *	2 JAN 0130 163	0.	.0	50.0 *	2 JAN 0950 263	2.	.8	53.1
1 JAN 1715	64	0.	.0	50.0 *	2 JAN 0135 164	0.	.0	50.0 *	2 JAN 0955 264	2.	.8	53.1
1 JAN 1720	65	0.	.0	50.0 *	2 JAN 0140 165	0.	.0	50.0 *	2 JAN 1000 265	2.	.8	53.1
1 JAN 1725	66	0.	.0	50.0 *	2 JAN 0145 166	0.	.0	50.0 *	2 JAN 1005 266	2.	.8	53.1
1 JAN 1730	67	0.	.0	50.0 *	2 JAN 0150 167	0.	.0	50.0 *	2 JAN 1010 267	2.	.8	53.1
1 JAN 1735	68	0.	.0	50.0 *	2 JAN 0155 168	0.	.0	50.0 *	2 JAN 1015 268	2.	.8	53.1
1 JAN 1740	69	0.	.0	50.0 *	2 JAN 0200 169	0.	.0	50.0 *	2 JAN 1020 269	2.	.8	53.1
1 JAN 1745	70	0.	.0	50.0 *	2 JAN 0205 170	0.	.0	50.0 *	2 JAN 1025 270	2.	.8	53.1
1 JAN 1750	71	0.	.0	50.0 *	2 JAN 0210 171	0.	.0	50.0 *	2 JAN 1030 271	2.	.8	53.1
1 JAN 1755	72	0.	.0	50.0 *	2 JAN 0215 172	0.	.0	50.0 *	2 JAN 1035 272	2.	.8	53.1
1 JAN 1800	73	0.	.0	50.0 *	2 JAN 0220 173	0.	.0	50.0 *	2 JAN 1040 273	2.	.8	53.1
1 JAN 1805	74	0.	.0	50.0 *	2 JAN 0225 174	0.	.0	50.0 *	2 JAN 1045 274	2.	.8	53.1
1 JAN 1810	75	0.	.0	50.0 *	2 JAN 0230 175	0.	.0	50.0 *	2 JAN 1050 275	2.	.8	53.1
1 JAN 1815	76	0.	.0	50.0 *	2 JAN 0235 176	0.	.0	50.0 *	2 JAN 1055 276	2.	.8	53.1
1 JAN 1820	77	0.	.0	50.0 *	2 JAN 0240 177	0.	.0	50.0 *	2 JAN 1100 277	2.	.8	53.0
1 JAN 1825	78	0.	.0	50.0 *	2 JAN 0245 178	0.	.0	50.0 *	2 JAN 1105 278	2.	.8	53.0

1 JAN 1830	79	0.	.0	50.0	*	2 JAN 0250	179	0.	.0	50.0	*	2 JAN 1110	279	2.	.8	53.0
1 JAN 1835	80	0.	.0	50.0	*	2 JAN 0255	180	0.	.0	50.0	*	2 JAN 1115	280	2.	.8	53.0
1 JAN 1840	81	0.	.0	50.0	*	2 JAN 0300	181	0.	.0	50.0	*	2 JAN 1120	281	2.	.8	53.0
1 JAN 1845	82	0.	.0	50.0	*	2 JAN 0305	182	0.	.0	50.0	*	2 JAN 1125	282	2.	.8	53.0
1 JAN 1850	83	0.	.0	50.0	*	2 JAN 0310	183	0.	.0	50.0	*	2 JAN 1130	283	2.	.7	53.0
1 JAN 1855	84	0.	.0	50.0	*	2 JAN 0315	184	1.	.0	50.0	*	2 JAN 1135	284	2.	.7	53.0
1 JAN 1900	85	0.	.0	50.0	*	2 JAN 0320	185	1.	.0	50.0	*	2 JAN 1140	285	2.	.7	53.0
1 JAN 1905	86	0.	.0	50.0	*	2 JAN 0325	186	1.	.0	50.1	*	2 JAN 1145	286	2.	.7	53.0
1 JAN 1910	87	0.	.0	50.0	*	2 JAN 0330	187	1.	.0	50.1	*	2 JAN 1150	287	2.	.7	53.0
1 JAN 1915	88	0.	.0	50.0	*	2 JAN 0335	188	1.	.0	50.1	*	2 JAN 1155	288	2.	.7	53.0
1 JAN 1920	89	0.	.0	50.0	*	2 JAN 0340	189	2.	.0	50.1	*	2 JAN 1200	289	2.	.7	53.0
1 JAN 1925	90	0.	.0	50.0	*	2 JAN 0345	190	2.	.0	50.2	*	2 JAN 1205	290	2.	.7	53.0
1 JAN 1930	91	0.	.0	50.0	*	2 JAN 0350	191	2.	.0	50.5	*	2 JAN 1210	291	2.	.7	53.0
1 JAN 1935	92	0.	.0	50.0	*	2 JAN 0355	192	2.	.0	51.0	*	2 JAN 1215	292	2.	.7	53.0
1 JAN 1940	93	0.	.0	50.0	*	2 JAN 0400	193	2.	.1	52.0	*	2 JAN 1220	293	2.	.7	53.0
1 JAN 1945	94	0.	.0	50.0	*	2 JAN 0405	194	2.	.1	52.1	*	2 JAN 1225	294	2.	.7	53.0
1 JAN 1950	95	0.	.0	50.0	*	2 JAN 0410	195	2.	.2	52.3	*	2 JAN 1230	295	2.	.7	53.0
1 JAN 1955	96	0.	.0	50.0	*	2 JAN 0415	196	2.	.4	52.5	*	2 JAN 1235	296	2.	.6	53.0
1 JAN 2000	97	0.	.0	50.0	*	2 JAN 0420	197	2.	.5	52.7	*	2 JAN 1240	297	2.	.6	52.9
1 JAN 2005	98	0.	.0	50.0	*	2 JAN 0425	198	2.	.5	52.8	*	2 JAN 1245	298	2.	.6	52.9
1 JAN 2010	99	0.	.0	50.0	*	2 JAN 0430	199	2.	.6	52.9	*	2 JAN 1250	299	2.	.6	52.9
1 JAN 2015	100	0.	.0	50.0	*	2 JAN 0435	200	2.	.7	53.0	*	2 JAN 1255	300	2.	.6	52.9

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PEAK FLOW	TIME			MAXIMUM AVERAGE FLOW		
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
2.	15.67	(CFS)	2.	1.	1.	1.
		(INCHES)	.176	.281	.281	.281
		(AC-FT)	1.	1.	1.	1.

PEAK STORAGE	TIME		MAXIMUM AVERAGE STORAGE		
(AC-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
1.	18.75	1.	0.	0.	0.

PEAK STAGE	TIME		MAXIMUM AVERAGE STAGE		
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
53.12	18.83	53.10	51.14	51.10	51.10

CUMULATIVE AREA = .09 SQ MI

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          **************
          *            *
174 KK    *    RT_23   *
          *            *
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175 KO OUTPUT CONTROL VARIABLES

IPRNT	1	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	21	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED

```
                ISAV2          300  LAST ORDINATE PUNCHED OR SAVED
               TIMINT         .083  TIME INTERVAL IN HOURS

                    ROUTE FROM "CONNECTION 2 TO CONNECTION 3"
                    THE CHANNEL GEOMETRY IS REPRESENTATIVE OF AN 0.74'X 0.74' BOX, WHICH HAS
                    THE SAME X-SECTIONAL AREA AS A 10" PIPE ***HAD TO CHANGE XS AREA DUE TO
                    WARNINGS IN OUTPUT

          HYDROGRAPH ROUTING DATA

180 RS       STORAGE ROUTING
                 NSTPS            3  NUMBER OF SUBREACHES
                  ITYP         STOR  TYPE OF INITIAL CONDITION
                RSVRIC        -1.00  INITIAL CONDITION
                     X          .00 WORKING R AND D COEFFICIENT

181 RC       NORMAL DEPTH CHANNEL
                   ANL         .013  LEFT OVERBANK N-VALUE
                  ANCH         .013  MAIN CHANNEL N-VALUE
                   ANR         .013  RIGHT OVERBANK N-VALUE
                 RLNTH        2425.  REACH LENGTH
                   SEL        .0025  ENERGY SLOPE
                 ELMAX           .0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                  CROSS-SECTION DATA
                      --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
183 RY      ELEVATION    1.74      1.74      1.74      1.00      1.00      1.74      1.74      1.74
182 RX      DISTANCE     1.00      2.00      5.00      5.00      6.00      6.00      7.00      8.00

                                                  ***

                                  COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

        STORAGE      .00       .00       .00       .01       .01       .01       .01       .02       .02       .02
        OUTFLOW      .00       .02       .07       .14       .22       .30       .39       .49       .59       .70
      ELEVATION     1.00      1.04      1.08      1.12      1.16      1.19      1.23      1.27      1.31      1.35

        STORAGE      .02       .02       .03       .03       .03       .03       .03       .04       .04       .04
        OUTFLOW      .81       .92      1.04      1.16      1.28      1.40      1.52      1.64      1.77      1.89
      ELEVATION     1.39      1.43      1.47      1.51      1.55      1.58      1.62      1.66      1.70      1.74

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                                  HYDROGRAPH AT STATION    RT_23

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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 JAN 1200   1      0.       .0     1.0 *  1 JAN 2020 101      0.       .0     1.0 *  2 JAN 0440 201      2.       .0     1.7
 1 JAN 1205   2      0.       .0     1.0 *  1 JAN 2025 102      0.       .0     1.0 *  2 JAN 0445 202      2.       .0     1.7
 1 JAN 1210   3      0.       .0     1.0 *  1 JAN 2030 103      0.       .0     1.0 *  2 JAN 0450 203      2.       .0     1.7
 1 JAN 1215   4      0.       .0     1.0 *  1 JAN 2035 104      0.       .0     1.0 *  2 JAN 0455 204      2.       .0     1.7
 1 JAN 1220   5      0.       .0     1.0 *  1 JAN 2040 105      0.       .0     1.0 *  2 JAN 0500 205      2.       .0     1.7
 1 JAN 1225   6      0.       .0     1.0 *  1 JAN 2045 106      0.       .0     1.0 *  2 JAN 0505 206      2.       .0     1.7
 1 JAN 1230   7      0.       .0     1.0 *  1 JAN 2050 107      0.       .0     1.0 *  2 JAN 0510 207      2.       .0     1.7
 1 JAN 1235   8      0.       .0     1.0 *  1 JAN 2055 108      0.       .0     1.0 *  2 JAN 0515 208      2.       .0     1.7
 1 JAN 1240   9      0.       .0     1.0 *  1 JAN 2100 109      0.       .0     1.0 *  2 JAN 0520 209      2.       .0     1.7
 1 JAN 1245  10      0.       .0     1.0 *  1 JAN 2105 110      0.       .0     1.0 *  2 JAN 0525 210      2.       .0     1.7
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1 JAN 1250	11	0.	.0	1.0 *	1 JAN 2110	111	0.	.0	1.0 *	2 JAN 0530	211	2.	.0	1.7
1 JAN 1255	12	0.	.0	1.0 *	1 JAN 2115	112	0.	.0	1.0 *	2 JAN 0535	212	2.	.0	1.7
1 JAN 1300	13	0.	.0	1.0 *	1 JAN 2120	113	0.	.0	1.0 *	2 JAN 0540	213	2.	.0	1.7
1 JAN 1305	14	0.	.0	1.0 *	1 JAN 2125	114	0.	.0	1.0 *	2 JAN 0545	214	2.	.0	1.7
1 JAN 1310	15	0.	.0	1.0 *	1 JAN 2130	115	0.	.0	1.0 *	2 JAN 0550	215	2.	.0	1.7
1 JAN 1315	16	0.	.0	1.0 *	1 JAN 2135	116	0.	.0	1.0 *	2 JAN 0555	216	2.	.0	1.7
1 JAN 1320	17	0.	.0	1.0 *	1 JAN 2140	117	0.	.0	1.0 *	2 JAN 0600	217	2.	.0	1.7
1 JAN 1325	18	0.	.0	1.0 *	1 JAN 2145	118	0.	.0	1.0 *	2 JAN 0605	218	2.	.0	1.7
1 JAN 1330	19	0.	.0	1.0 *	1 JAN 2150	119	0.	.0	1.0 *	2 JAN 0610	219	2.	.0	1.7
1 JAN 1335	20	0.	.0	1.0 *	1 JAN 2155	120	0.	.0	1.0 *	2 JAN 0615	220	2.	.0	1.7
1 JAN 1340	21	0.	.0	1.0 *	1 JAN 2200	121	0.	.0	1.0 *	2 JAN 0620	221	2.	.0	1.7
1 JAN 1345	22	0.	.0	1.0 *	1 JAN 2205	122	0.	.0	1.0 *	2 JAN 0625	222	2.	.0	1.7
1 JAN 1350	23	0.	.0	1.0 *	1 JAN 2210	123	0.	.0	1.0 *	2 JAN 0630	223	2.	.0	1.7
1 JAN 1355	24	0.	.0	1.0 *	1 JAN 2215	124	0.	.0	1.0 *	2 JAN 0635	224	2.	.0	1.7
1 JAN 1400	25	0.	.0	1.0 *	1 JAN 2220	125	0.	.0	1.0 *	2 JAN 0640	225	2.	.0	1.7
1 JAN 1405	26	0.	.0	1.0 *	1 JAN 2225	126	0.	.0	1.0 *	2 JAN 0645	226	2.	.0	1.7
1 JAN 1410	27	0.	.0	1.0 *	1 JAN 2230	127	0.	.0	1.0 *	2 JAN 0650	227	2.	.0	1.7
1 JAN 1415	28	0.	.0	1.0 *	1 JAN 2235	128	0.	.0	1.0 *	2 JAN 0655	228	2.	.0	1.7
1 JAN 1420	29	0.	.0	1.0 *	1 JAN 2240	129	0.	.0	1.0 *	2 JAN 0700	229	2.	.0	1.7
1 JAN 1425	30	0.	.0	1.0 *	1 JAN 2245	130	0.	.0	1.0 *	2 JAN 0705	230	2.	.0	1.7
1 JAN 1430	31	0.	.0	1.0 *	1 JAN 2250	131	0.	.0	1.0 *	2 JAN 0710	231	2.	.0	1.7
1 JAN 1435	32	0.	.0	1.0 *	1 JAN 2255	132	0.	.0	1.0 *	2 JAN 0715	232	2.	.0	1.7
1 JAN 1440	33	0.	.0	1.0 *	1 JAN 2300	133	0.	.0	1.0 *	2 JAN 0720	233	2.	.0	1.7
1 JAN 1445	34	0.	.0	1.0 *	1 JAN 2305	134	0.	.0	1.0 *	2 JAN 0725	234	2.	.0	1.7
1 JAN 1450	35	0.	.0	1.0 *	1 JAN 2310	135	0.	.0	1.0 *	2 JAN 0730	235	2.	.0	1.7
1 JAN 1455	36	0.	.0	1.0 *	1 JAN 2315	136	0.	.0	1.0 *	2 JAN 0735	236	2.	.0	1.7
1 JAN 1500	37	0.	.0	1.0 *	1 JAN 2320	137	0.	.0	1.0 *	2 JAN 0740	237	2.	.0	1.7
1 JAN 1505	38	0.	.0	1.0 *	1 JAN 2325	138	0.	.0	1.0 *	2 JAN 0745	238	2.	.0	1.7
1 JAN 1510	39	0.	.0	1.0 *	1 JAN 2330	139	0.	.0	1.0 *	2 JAN 0750	239	2.	.0	1.7
1 JAN 1515	40	0.	.0	1.0 *	1 JAN 2335	140	0.	.0	1.0 *	2 JAN 0755	240	2.	.0	1.7
1 JAN 1520	41	0.	.0	1.0 *	1 JAN 2340	141	0.	.0	1.0 *	2 JAN 0800	241	2.	.0	1.7
1 JAN 1525	42	0.	.0	1.0 *	1 JAN 2345	142	0.	.0	1.0 *	2 JAN 0805	242	2.	.0	1.7
1 JAN 1530	43	0.	.0	1.0 *	1 JAN 2350	143	0.	.0	1.0 *	2 JAN 0810	243	2.	.0	1.7
1 JAN 1535	44	0.	.0	1.0 *	1 JAN 2355	144	0.	.0	1.0 *	2 JAN 0815	244	2.	.0	1.7
1 JAN 1540	45	0.	.0	1.0 *	2 JAN 0000	145	0.	.0	1.0 *	2 JAN 0820	245	2.	.0	1.7
1 JAN 1545	46	0.	.0	1.0 *	2 JAN 0005	146	0.	.0	1.0 *	2 JAN 0825	246	2.	.0	1.7
1 JAN 1550	47	0.	.0	1.0 *	2 JAN 0010	147	0.	.0	1.0 *	2 JAN 0830	247	2.	.0	1.7
1 JAN 1555	48	0.	.0	1.0 *	2 JAN 0015	148	0.	.0	1.0 *	2 JAN 0835	248	2.	.0	1.7
1 JAN 1600	49	0.	.0	1.0 *	2 JAN 0020	149	0.	.0	1.0 *	2 JAN 0840	249	2.	.0	1.7
1 JAN 1605	50	0.	.0	1.0 *	2 JAN 0025	150	0.	.0	1.0 *	2 JAN 0845	250	2.	.0	1.7
1 JAN 1610	51	0.	.0	1.0 *	2 JAN 0030	151	0.	.0	1.0 *	2 JAN 0850	251	2.	.0	1.7
1 JAN 1615	52	0.	.0	1.0 *	2 JAN 0035	152	0.	.0	1.0 *	2 JAN 0855	252	2.	.0	1.7
1 JAN 1620	53	0.	.0	1.0 *	2 JAN 0040	153	0.	.0	1.0 *	2 JAN 0900	253	2.	.0	1.7
1 JAN 1625	54	0.	.0	1.0 *	2 JAN 0045	154	0.	.0	1.0 *	2 JAN 0905	254	2.	.0	1.7
1 JAN 1630	55	0.	.0	1.0 *	2 JAN 0050	155	0.	.0	1.0 *	2 JAN 0910	255	2.	.0	1.7
1 JAN 1635	56	0.	.0	1.0 *	2 JAN 0055	156	0.	.0	1.0 *	2 JAN 0915	256	2.	.0	1.7
1 JAN 1640	57	0.	.0	1.0 *	2 JAN 0100	157	0.	.0	1.0 *	2 JAN 0920	257	2.	.0	1.7
1 JAN 1645	58	0.	.0	1.0 *	2 JAN 0105	158	0.	.0	1.0 *	2 JAN 0925	258	2.	.0	1.7
1 JAN 1650	59	0.	.0	1.0 *	2 JAN 0110	159	0.	.0	1.0 *	2 JAN 0930	259	2.	.0	1.7
1 JAN 1655	60	0.	.0	1.0 *	2 JAN 0115	160	0.	.0	1.0 *	2 JAN 0935	260	2.	.0	1.7
1 JAN 1700	61	0.	.0	1.0 *	2 JAN 0120	161	0.	.0	1.0 *	2 JAN 0940	261	2.	.0	1.7
1 JAN 1705	62	0.	.0	1.0 *	2 JAN 0125	162	0.	.0	1.0 *	2 JAN 0945	262	2.	.0	1.7
1 JAN 1710	63	0.	.0	1.0 *	2 JAN 0130	163	0.	.0	1.0 *	2 JAN 0950	263	2.	.0	1.7
1 JAN 1715	64	0.	.0	1.0 *	2 JAN 0135	164	0.	.0	1.0 *	2 JAN 0955	264	2.	.0	1.7
1 JAN 1720	65	0.	.0	1.0 *	2 JAN 0140	165	0.	.0	1.0 *	2 JAN 1000	265	2.	.0	1.7
1 JAN 1725	66	0.	.0	1.0 *	2 JAN 0145	166	0.	.0	1.0 *	2 JAN 1005	266	2.	.0	1.7
1 JAN 1730	67	0.	.0	1.0 *	2 JAN 0150	167	0.	.0	1.0 *	2 JAN 1010	267	2.	.0	1.7
1 JAN 1735	68	0.	.0	1.0 *	2 JAN 0155	168	0.	.0	1.0 *	2 JAN 1015	268	2.	.0	1.7
1 JAN 1740	69	0.	.0	1.0 *	2 JAN 0200	169	0.	.0	1.0 *	2 JAN 1020	269	2.	.0	1.7
1 JAN 1745	70	0.	.0	1.0 *	2 JAN 0205	170	0.	.0	1.0 *	2 JAN 1025	270	2.	.0	1.7

1 JAN 1750 71	0.	.0	1.0 *	2 JAN 0210 171	0.	.0	1.0 *	2 JAN 1030 271	2.	.0	1.7
1 JAN 1755 72	0.	.0	1.0 *	2 JAN 0215 172	0.	.0	1.0 *	2 JAN 1035 272	2.	.0	1.7
1 JAN 1800 73	0.	.0	1.0 *	2 JAN 0220 173	0.	.0	1.0 *	2 JAN 1040 273	2.	.0	1.7
1 JAN 1805 74	0.	.0	1.0 *	2 JAN 0225 174	0.	.0	1.0 *	2 JAN 1045 274	2.	.0	1.7
1 JAN 1810 75	0.	.0	1.0 *	2 JAN 0230 175	0.	.0	1.0 *	2 JAN 1050 275	2.	.0	1.7
1 JAN 1815 76	0.	.0	1.0 *	2 JAN 0235 176	0.	.0	1.0 *	2 JAN 1055 276	2.	.0	1.7
1 JAN 1820 77	0.	.0	1.0 *	2 JAN 0240 177	0.	.0	1.0 *	2 JAN 1100 277	2.	.0	1.7
1 JAN 1825 78	0.	.0	1.0 *	2 JAN 0245 178	0.	.0	1.0 *	2 JAN 1105 278	2.	.0	1.7
1 JAN 1830 79	0.	.0	1.0 *	2 JAN 0250 179	0.	.0	1.0 *	2 JAN 1110 279	2.	.0	1.7
1 JAN 1835 80	0.	.0	1.0 *	2 JAN 0255 180	0.	.0	1.0 *	2 JAN 1115 280	2.	.0	1.7
1 JAN 1840 81	0.	.0	1.0 *	2 JAN 0300 181	0.	.0	1.0 *	2 JAN 1120 281	2.	.0	1.7
1 JAN 1845 82	0.	.0	1.0 *	2 JAN 0305 182	0.	.0	1.0 *	2 JAN 1125 282	2.	.0	1.7
1 JAN 1850 83	0.	.0	1.0 *	2 JAN 0310 183	0.	.0	1.1 *	2 JAN 1130 283	2.	.0	1.7
1 JAN 1855 84	0.	.0	1.0 *	2 JAN 0315 184	0.	.0	1.1 *	2 JAN 1135 284	2.	.0	1.7
1 JAN 1900 85	0.	.0	1.0 *	2 JAN 0320 185	0.	.0	1.2 *	2 JAN 1140 285	2.	.0	1.7
1 JAN 1905 86	0.	.0	1.0 *	2 JAN 0325 186	0.	.0	1.2 *	2 JAN 1145 286	2.	.0	1.7
1 JAN 1910 87	0.	.0	1.0 *	2 JAN 0330 187	1.	.0	1.3 *	2 JAN 1150 287	2.	.0	1.7
1 JAN 1915 88	0.	.0	1.0 *	2 JAN 0335 188	1.	.0	1.4 *	2 JAN 1155 288	2.	.0	1.7
1 JAN 1920 89	0.	.0	1.0 *	2 JAN 0340 189	1.	.0	1.5 *	2 JAN 1200 289	2.	.0	1.7
1 JAN 1925 90	0.	.0	1.0 *	2 JAN 0345 190	1.	.0	1.5 *	2 JAN 1205 290	2.	.0	1.7
1 JAN 1930 91	0.	.0	1.0 *	2 JAN 0350 191	1.	.0	1.6 *	2 JAN 1210 291	2.	.0	1.7
1 JAN 1935 92	0.	.0	1.0 *	2 JAN 0355 192	2.	.0	1.6 *	2 JAN 1215 292	2.	.0	1.7
1 JAN 1940 93	0.	.0	1.0 *	2 JAN 0400 193	2.	.0	1.7 *	2 JAN 1220 293	2.	.0	1.7
1 JAN 1945 94	0.	.0	1.0 *	2 JAN 0405 194	2.	.0	1.7 *	2 JAN 1225 294	2.	.0	1.7
1 JAN 1950 95	0.	.0	1.0 *	2 JAN 0410 195	2.	.0	1.7 *	2 JAN 1230 295	2.	.0	1.7
1 JAN 1955 96	0.	.0	1.0 *	2 JAN 0415 196	2.	.0	1.7 *	2 JAN 1235 296	2.	.0	1.7
1 JAN 2000 97	0.	.0	1.0 *	2 JAN 0420 197	2.	.0	1.7 *	2 JAN 1240 297	2.	.0	1.7
1 JAN 2005 98	0.	.0	1.0 *	2 JAN 0425 198	2.	.0	1.7 *	2 JAN 1245 298	2.	.0	1.7
1 JAN 2010 99	0.	.0	1.0 *	2 JAN 0430 199	2.	.0	1.7 *	2 JAN 1250 299	2.	.0	1.7
1 JAN 2015 100	0.	.0	1.0 *	2 JAN 0435 200	2.	.0	1.7 *	2 JAN 1255 300	2.	.0	1.7
			*				*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
2.	16.33	(CFS)	2.	1.	1.	1.
		(INCHES)	.176	.273	.273	.273
		(AC-FT)	1.	1.	1.	1.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
0.	16.00	0.	0.	0.	0.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
1.68	16.92	1.68	1.27	1.26	1.26

CUMULATIVE AREA = .09 SQ MI

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          *            *
184 KK    *   10_CON3  *
          *            *
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BASIN 10 DRAINING TO "CONNECTION 3"

SUBBASIN RUNOFF DATA

186 BA SUBBASIN CHARACTERISTICS

TAREA .02 SUBBASIN AREA

PRECIPITATION DATA

27 PB STORM 2.49 BASIN TOTAL PRECIPITATION

27 PI INCREMENTAL PRECIPITATION PATTERN

.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.02	.02	.02	.02	.02	.02	.02
.02	.02	.02	.03	.03	.03	.03	.04	.05	.07
.10	.35	.06	.04	.03	.02	.02	.02	.02	.02
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00			

187 LS SCS LOSS RATE

STRTL .82 INITIAL ABSTRACTION

CRVNBR 71.00 CURVE NUMBER

RTIMP .00 PERCENT IMPERVIOUS AREA

188 UD SCS DIMENSIONLESS UNITGRAPH

TLAG .06 LAG

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WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

UNIT HYDROGRAPH

6 END-OF-PERIOD ORDINATES

87. 50. 13. 3. 1. 0.

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HYDROGRAPH AT STATION 10_CON3

DA MON HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	DA MON HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1 JAN 1200	1	.00	.00	.00	0.	2 JAN 0030	151	.01	.01	.00	0.
1 JAN 1205	2	.00	.00	.00	0.	2 JAN 0035	152	.01	.01	.00	0.
1 JAN 1210	3	.00	.00	.00	0.	2 JAN 0040	153	.01	.01	.00	0.
1 JAN 1215	4	.00	.00	.00	0.	2 JAN 0045	154	.01	.01	.00	0.
1 JAN 1220	5	.00	.00	.00	0.	2 JAN 0050	155	.01	.01	.00	0.
1 JAN 1225	6	.00	.00	.00	0.	2 JAN 0055	156	.01	.01	.00	0.
1 JAN 1230	7	.00	.00	.00	0.	2 JAN 0100	157	.01	.01	.00	0.
1 JAN 1235	8	.00	.00	.00	0.	2 JAN 0105	158	.01	.01	.00	0.
1 JAN 1240	9	.00	.00	.00	0.	2 JAN 0110	159	.01	.01	.00	0.
1 JAN 1245	10	.00	.00	.00	0.	2 JAN 0115	160	.01	.01	.00	0.
1 JAN 1250	11	.00	.00	.00	0.	2 JAN 0120	161	.01	.01	.00	0.
1 JAN 1255	12	.00	.00	.00	0.	2 JAN 0125	162	.01	.01	.00	0.
1 JAN 1300	13	.00	.00	.00	0.	2 JAN 0130	163	.01	.01	.00	0.
1 JAN 1305	14	.00	.00	.00	0.	2 JAN 0135	164	.01	.01	.00	0.
1 JAN 1310	15	.00	.00	.00	0.	2 JAN 0140	165	.01	.01	.00	0.
1 JAN 1315	16	.00	.00	.00	0.	2 JAN 0145	166	.01	.01	.00	0.
1 JAN 1320	17	.00	.00	.00	0.	2 JAN 0150	167	.01	.01	.00	0.
1 JAN 1325	18	.00	.00	.00	0.	2 JAN 0155	168	.01	.01	.00	0.
1 JAN 1330	19	.00	.00	.00	0.	2 JAN 0200	169	.01	.01	.00	0.
1 JAN 1335	20	.00	.00	.00	0.	2 JAN 0205	170	.01	.01	.00	0.
1 JAN 1340	21	.00	.00	.00	0.	2 JAN 0210	171	.01	.01	.00	0.
1 JAN 1345	22	.00	.00	.00	0.	2 JAN 0215	172	.01	.01	.00	0.
1 JAN 1350	23	.00	.00	.00	0.	2 JAN 0220	173	.01	.01	.00	0.
1 JAN 1355	24	.00	.00	.00	0.	2 JAN 0225	174	.01	.01	.00	0.
1 JAN 1400	25	.00	.00	.00	0.	2 JAN 0230	175	.02	.01	.00	0.
1 JAN 1405	26	.00	.00	.00	0.	2 JAN 0235	176	.02	.01	.00	0.
1 JAN 1410	27	.00	.00	.00	0.	2 JAN 0240	177	.02	.02	.00	0.
1 JAN 1415	28	.00	.00	.00	0.	2 JAN 0245	178	.02	.02	.00	0.
1 JAN 1420	29	.00	.00	.00	0.	2 JAN 0250	179	.02	.02	.00	0.
1 JAN 1425	30	.00	.00	.00	0.	2 JAN 0255	180	.02	.02	.00	0.
1 JAN 1430	31	.00	.00	.00	0.	2 JAN 0300	181	.02	.02	.00	0.
1 JAN 1435	32	.00	.00	.00	0.	2 JAN 0305	182	.02	.02	.00	0.
1 JAN 1440	33	.00	.00	.00	0.	2 JAN 0310	183	.02	.02	.00	0.
1 JAN 1445	34	.00	.00	.00	0.	2 JAN 0315	184	.02	.02	.00	0.
1 JAN 1450	35	.00	.00	.00	0.	2 JAN 0320	185	.03	.02	.00	0.
1 JAN 1455	36	.00	.00	.00	0.	2 JAN 0325	186	.03	.02	.00	1.
1 JAN 1500	37	.00	.00	.00	0.	2 JAN 0330	187	.03	.03	.00	1.
1 JAN 1505	38	.00	.00	.00	0.	2 JAN 0335	188	.03	.03	.01	1.
1 JAN 1510	39	.00	.00	.00	0.	2 JAN 0340	189	.04	.03	.01	1.
1 JAN 1515	40	.00	.00	.00	0.	2 JAN 0345	190	.05	.04	.01	1.
1 JAN 1520	41	.00	.00	.00	0.	2 JAN 0350	191	.07	.05	.01	2.
1 JAN 1525	42	.00	.00	.00	0.	2 JAN 0355	192	.10	.07	.02	3.
1 JAN 1530	43	.00	.00	.00	0.	2 JAN 0400	193	.35	.24	.11	11.
1 JAN 1535	44	.00	.00	.00	0.	2 JAN 0405	194	.06	.04	.02	7.
1 JAN 1540	45	.00	.00	.00	0.	2 JAN 0410	195	.04	.02	.01	4.
1 JAN 1545	46	.00	.00	.00	0.	2 JAN 0415	196	.03	.02	.01	2.
1 JAN 1550	47	.00	.00	.00	0.	2 JAN 0420	197	.02	.01	.01	2.
1 JAN 1555	48	.00	.00	.00	0.	2 JAN 0425	198	.02	.01	.01	1.
1 JAN 1600	49	.00	.00	.00	0.	2 JAN 0430	199	.02	.01	.01	1.
1 JAN 1605	50	.00	.00	.00	0.	2 JAN 0435	200	.02	.01	.01	1.
1 JAN 1610	51	.00	.00	.00	0.	2 JAN 0440	201	.02	.01	.01	1.
1 JAN 1615	52	.00	.00	.00	0.	2 JAN 0445	202	.01	.01	.01	1.
1 JAN 1620	53	.00	.00	.00	0.	2 JAN 0450	203	.01	.01	.01	1.
1 JAN 1625	54	.00	.00	.00	0.	2 JAN 0455	204	.01	.01	.01	1.

1	JAN	1630	55	.00	.00	.00	0.	*	2	JAN	0500	205	.01	.01	.01	1.
1	JAN	1635	56	.00	.00	.00	0.	*	2	JAN	0505	206	.01	.01	.00	1.
1	JAN	1640	57	.00	.00	.00	0.	*	2	JAN	0510	207	.01	.01	.00	1.
1	JAN	1645	58	.00	.00	.00	0.	*	2	JAN	0515	208	.01	.01	.00	1.
1	JAN	1650	59	.00	.00	.00	0.	*	2	JAN	0520	209	.01	.01	.00	1.
1	JAN	1655	60	.00	.00	.00	0.	*	2	JAN	0525	210	.01	.01	.00	1.
1	JAN	1700	61	.00	.00	.00	0.	*	2	JAN	0530	211	.01	.01	.00	1.
1	JAN	1705	62	.00	.00	.00	0.	*	2	JAN	0535	212	.01	.01	.00	1.
1	JAN	1710	63	.00	.00	.00	0.	*	2	JAN	0540	213	.01	.01	.00	1.
1	JAN	1715	64	.00	.00	.00	0.	*	2	JAN	0545	214	.01	.00	.00	1.
1	JAN	1720	65	.00	.00	.00	0.	*	2	JAN	0550	215	.01	.00	.00	1.
1	JAN	1725	66	.00	.00	.00	0.	*	2	JAN	0555	216	.01	.00	.00	1.
1	JAN	1730	67	.00	.00	.00	0.	*	2	JAN	0600	217	.01	.00	.00	1.
1	JAN	1735	68	.00	.00	.00	0.	*	2	JAN	0605	218	.01	.00	.00	0.
1	JAN	1740	69	.00	.00	.00	0.	*	2	JAN	0610	219	.01	.00	.00	0.
1	JAN	1745	70	.00	.00	.00	0.	*	2	JAN	0615	220	.01	.00	.00	0.
1	JAN	1750	71	.00	.00	.00	0.	*	2	JAN	0620	221	.01	.00	.00	0.
1	JAN	1755	72	.00	.00	.00	0.	*	2	JAN	0625	222	.01	.00	.00	0.
1	JAN	1800	73	.00	.00	.00	0.	*	2	JAN	0630	223	.01	.00	.00	0.
1	JAN	1805	74	.00	.00	.00	0.	*	2	JAN	0635	224	.01	.00	.00	0.
1	JAN	1810	75	.00	.00	.00	0.	*	2	JAN	0640	225	.01	.00	.00	0.
1	JAN	1815	76	.00	.00	.00	0.	*	2	JAN	0645	226	.01	.00	.00	0.
1	JAN	1820	77	.00	.00	.00	0.	*	2	JAN	0650	227	.01	.00	.00	0.
1	JAN	1825	78	.00	.00	.00	0.	*	2	JAN	0655	228	.01	.00	.00	0.
1	JAN	1830	79	.00	.00	.00	0.	*	2	JAN	0700	229	.01	.00	.00	0.
1	JAN	1835	80	.00	.00	.00	0.	*	2	JAN	0705	230	.01	.00	.00	0.
1	JAN	1840	81	.00	.00	.00	0.	*	2	JAN	0710	231	.01	.00	.00	0.
1	JAN	1845	82	.00	.00	.00	0.	*	2	JAN	0715	232	.01	.00	.00	0.
1	JAN	1850	83	.00	.00	.00	0.	*	2	JAN	0720	233	.01	.00	.00	0.
1	JAN	1855	84	.00	.00	.00	0.	*	2	JAN	0725	234	.00	.00	.00	0.
1	JAN	1900	85	.00	.00	.00	0.	*	2	JAN	0730	235	.00	.00	.00	0.
1	JAN	1905	86	.00	.00	.00	0.	*	2	JAN	0735	236	.00	.00	.00	0.
1	JAN	1910	87	.00	.00	.00	0.	*	2	JAN	0740	237	.00	.00	.00	0.
1	JAN	1915	88	.00	.00	.00	0.	*	2	JAN	0745	238	.00	.00	.00	0.
1	JAN	1920	89	.00	.00	.00	0.	*	2	JAN	0750	239	.00	.00	.00	0.
1	JAN	1925	90	.00	.00	.00	0.	*	2	JAN	0755	240	.00	.00	.00	0.
1	JAN	1930	91	.00	.00	.00	0.	*	2	JAN	0800	241	.00	.00	.00	0.
1	JAN	1935	92	.00	.00	.00	0.	*	2	JAN	0805	242	.00	.00	.00	0.
1	JAN	1940	93	.00	.00	.00	0.	*	2	JAN	0810	243	.00	.00	.00	0.
1	JAN	1945	94	.00	.00	.00	0.	*	2	JAN	0815	244	.00	.00	.00	0.
1	JAN	1950	95	.00	.00	.00	0.	*	2	JAN	0820	245	.00	.00	.00	0.
1	JAN	1955	96	.00	.00	.00	0.	*	2	JAN	0825	246	.00	.00	.00	0.
1	JAN	2000	97	.00	.00	.00	0.	*	2	JAN	0830	247	.00	.00	.00	0.
1	JAN	2005	98	.00	.00	.00	0.	*	2	JAN	0835	248	.00	.00	.00	0.
1	JAN	2010	99	.00	.00	.00	0.	*	2	JAN	0840	249	.00	.00	.00	0.
1	JAN	2015	100	.00	.00	.00	0.	*	2	JAN	0845	250	.00	.00	.00	0.
1	JAN	2020	101	.00	.00	.00	0.	*	2	JAN	0850	251	.00	.00	.00	0.
1	JAN	2025	102	.00	.00	.00	0.	*	2	JAN	0855	252	.00	.00	.00	0.
1	JAN	2030	103	.00	.00	.00	0.	*	2	JAN	0900	253	.00	.00	.00	0.
1	JAN	2035	104	.00	.00	.00	0.	*	2	JAN	0905	254	.00	.00	.00	0.
1	JAN	2040	105	.00	.00	.00	0.	*	2	JAN	0910	255	.00	.00	.00	0.
1	JAN	2045	106	.00	.00	.00	0.	*	2	JAN	0915	256	.00	.00	.00	0.
1	JAN	2050	107	.00	.00	.00	0.	*	2	JAN	0920	257	.00	.00	.00	0.
1	JAN	2055	108	.00	.00	.00	0.	*	2	JAN	0925	258	.00	.00	.00	0.
1	JAN	2100	109	.00	.00	.00	0.	*	2	JAN	0930	259	.00	.00	.00	0.
1	JAN	2105	110	.00	.00	.00	0.	*	2	JAN	0935	260	.00	.00	.00	0.
1	JAN	2110	111	.00	.00	.00	0.	*	2	JAN	0940	261	.00	.00	.00	0.
1	JAN	2115	112	.00	.00	.00	0.	*	2	JAN	0945	262	.00	.00	.00	0.
1	JAN	2120	113	.01	.01	.00	0.	*	2	JAN	0950	263	.00	.00	.00	0.
1	JAN	2125	114	.01	.01	.00	0.	*	2	JAN	0955	264	.00	.00	.00	0.

1 JAN 2130	115	.01	.01	.00	0.	*	2 JAN 1000	265	.00	.00	.00	0.
1 JAN 2135	116	.01	.01	.00	0.	*	2 JAN 1005	266	.00	.00	.00	0.
1 JAN 2140	117	.01	.01	.00	0.	*	2 JAN 1010	267	.00	.00	.00	0.
1 JAN 2145	118	.01	.01	.00	0.	*	2 JAN 1015	268	.00	.00	.00	0.
1 JAN 2150	119	.01	.01	.00	0.	*	2 JAN 1020	269	.00	.00	.00	0.
1 JAN 2155	120	.01	.01	.00	0.	*	2 JAN 1025	270	.00	.00	.00	0.
1 JAN 2200	121	.01	.01	.00	0.	*	2 JAN 1030	271	.00	.00	.00	0.
1 JAN 2205	122	.01	.01	.00	0.	*	2 JAN 1035	272	.00	.00	.00	0.
1 JAN 2210	123	.01	.01	.00	0.	*	2 JAN 1040	273	.00	.00	.00	0.
1 JAN 2215	124	.01	.01	.00	0.	*	2 JAN 1045	274	.00	.00	.00	0.
1 JAN 2220	125	.01	.01	.00	0.	*	2 JAN 1050	275	.00	.00	.00	0.
1 JAN 2225	126	.01	.01	.00	0.	*	2 JAN 1055	276	.00	.00	.00	0.
1 JAN 2230	127	.01	.01	.00	0.	*	2 JAN 1100	277	.00	.00	.00	0.
1 JAN 2235	128	.01	.01	.00	0.	*	2 JAN 1105	278	.00	.00	.00	0.
1 JAN 2240	129	.01	.01	.00	0.	*	2 JAN 1110	279	.00	.00	.00	0.
1 JAN 2245	130	.01	.01	.00	0.	*	2 JAN 1115	280	.00	.00	.00	0.
1 JAN 2250	131	.01	.01	.00	0.	*	2 JAN 1120	281	.00	.00	.00	0.
1 JAN 2255	132	.01	.01	.00	0.	*	2 JAN 1125	282	.00	.00	.00	0.
1 JAN 2300	133	.01	.01	.00	0.	*	2 JAN 1130	283	.00	.00	.00	0.
1 JAN 2305	134	.01	.01	.00	0.	*	2 JAN 1135	284	.00	.00	.00	0.
1 JAN 2310	135	.01	.01	.00	0.	*	2 JAN 1140	285	.00	.00	.00	0.
1 JAN 2315	136	.01	.01	.00	0.	*	2 JAN 1145	286	.00	.00	.00	0.
1 JAN 2320	137	.01	.01	.00	0.	*	2 JAN 1150	287	.00	.00	.00	0.
1 JAN 2325	138	.01	.01	.00	0.	*	2 JAN 1155	288	.00	.00	.00	0.
1 JAN 2330	139	.01	.01	.00	0.	*	2 JAN 1200	289	.00	.00	.00	0.
1 JAN 2335	140	.01	.01	.00	0.	*	2 JAN 1205	290	.00	.00	.00	0.
1 JAN 2340	141	.01	.01	.00	0.	*	2 JAN 1210	291	.00	.00	.00	0.
1 JAN 2345	142	.01	.01	.00	0.	*	2 JAN 1215	292	.00	.00	.00	0.
1 JAN 2350	143	.01	.01	.00	0.	*	2 JAN 1220	293	.00	.00	.00	0.
1 JAN 2355	144	.01	.01	.00	0.	*	2 JAN 1225	294	.00	.00	.00	0.
2 JAN 0000	145	.01	.01	.00	0.	*	2 JAN 1230	295	.00	.00	.00	0.
2 JAN 0005	146	.01	.01	.00	0.	*	2 JAN 1235	296	.00	.00	.00	0.
2 JAN 0010	147	.01	.01	.00	0.	*	2 JAN 1240	297	.00	.00	.00	0.
2 JAN 0015	148	.01	.01	.00	0.	*	2 JAN 1245	298	.00	.00	.00	0.
2 JAN 0020	149	.01	.01	.00	0.	*	2 JAN 1250	299	.00	.00	.00	0.
2 JAN 0025	150	.01	.01	.00	0.	*	2 JAN 1255	300	.00	.00	.00	0.
						*						

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TOTAL RAINFALL = 2.49, TOTAL LOSS = 2.01, TOTAL EXCESS = .49

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
11.	16.00	(CFS)	1.	0.	0.	0.
		(INCHES)	.423	.488	.488	.488
		(AC-FT)	0.	1.	1.	1.

CUMULATIVE AREA = .02 SQ MI

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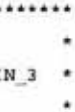
189 KK



Q IN MAIN LINE AFTER CONFLUENCE WITH CONNECTION 3

191 HC HYDROGRAPH COMBINATION

ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION MAIN_3

SUM OF 2 HYDROGRAPHS

DA MON HRMN	ORD	FLOW	*	DA MON HRMN	ORD	FLOW	*	DA MON HRMN	ORD	FLOW	*	DA MON HRMN	ORD	FLOW
1 JAN 1200	1	0.	*	1 JAN 1815	76	0.	*	2 JAN 0030	151	0.	*	2 JAN 0645	226	2.
1 JAN 1205	2	0.	*	1 JAN 1820	77	0.	*	2 JAN 0035	152	0.	*	2 JAN 0650	227	2.
1 JAN 1210	3	0.	*	1 JAN 1825	78	0.	*	2 JAN 0040	153	0.	*	2 JAN 0655	228	2.
1 JAN 1215	4	0.	*	1 JAN 1830	79	0.	*	2 JAN 0045	154	0.	*	2 JAN 0700	229	2.
1 JAN 1220	5	0.	*	1 JAN 1835	80	0.	*	2 JAN 0050	155	0.	*	2 JAN 0705	230	2.
1 JAN 1225	6	0.	*	1 JAN 1840	81	0.	*	2 JAN 0055	156	0.	*	2 JAN 0710	231	2.
1 JAN 1230	7	0.	*	1 JAN 1845	82	0.	*	2 JAN 0100	157	0.	*	2 JAN 0715	232	2.
1 JAN 1235	8	0.	*	1 JAN 1850	83	0.	*	2 JAN 0105	158	0.	*	2 JAN 0720	233	2.
1 JAN 1240	9	0.	*	1 JAN 1855	84	0.	*	2 JAN 0110	159	0.	*	2 JAN 0725	234	2.
1 JAN 1245	10	0.	*	1 JAN 1900	85	0.	*	2 JAN 0115	160	0.	*	2 JAN 0730	235	2.
1 JAN 1250	11	0.	*	1 JAN 1905	86	0.	*	2 JAN 0120	161	0.	*	2 JAN 0735	236	2.
1 JAN 1255	12	0.	*	1 JAN 1910	87	0.	*	2 JAN 0125	162	0.	*	2 JAN 0740	237	2.
1 JAN 1300	13	0.	*	1 JAN 1915	88	0.	*	2 JAN 0130	163	0.	*	2 JAN 0745	238	2.
1 JAN 1305	14	0.	*	1 JAN 1920	89	0.	*	2 JAN 0135	164	0.	*	2 JAN 0750	239	2.
1 JAN 1310	15	0.	*	1 JAN 1925	90	0.	*	2 JAN 0140	165	0.	*	2 JAN 0755	240	2.
1 JAN 1315	16	0.	*	1 JAN 1930	91	0.	*	2 JAN 0145	166	0.	*	2 JAN 0800	241	2.
1 JAN 1320	17	0.	*	1 JAN 1935	92	0.	*	2 JAN 0150	167	0.	*	2 JAN 0805	242	2.
1 JAN 1325	18	0.	*	1 JAN 1940	93	0.	*	2 JAN 0155	168	0.	*	2 JAN 0810	243	2.
1 JAN 1330	19	0.	*	1 JAN 1945	94	0.	*	2 JAN 0200	169	0.	*	2 JAN 0815	244	2.
1 JAN 1335	20	0.	*	1 JAN 1950	95	0.	*	2 JAN 0205	170	0.	*	2 JAN 0820	245	2.
1 JAN 1340	21	0.	*	1 JAN 1955	96	0.	*	2 JAN 0210	171	0.	*	2 JAN 0825	246	2.
1 JAN 1345	22	0.	*	1 JAN 2000	97	0.	*	2 JAN 0215	172	0.	*	2 JAN 0830	247	2.
1 JAN 1350	23	0.	*	1 JAN 2005	98	0.	*	2 JAN 0220	173	0.	*	2 JAN 0835	248	2.
1 JAN 1355	24	0.	*	1 JAN 2010	99	0.	*	2 JAN 0225	174	0.	*	2 JAN 0840	249	2.
1 JAN 1400	25	0.	*	1 JAN 2015	100	0.	*	2 JAN 0230	175	0.	*	2 JAN 0845	250	2.
1 JAN 1405	26	0.	*	1 JAN 2020	101	0.	*	2 JAN 0235	176	0.	*	2 JAN 0850	251	2.
1 JAN 1410	27	0.	*	1 JAN 2025	102	0.	*	2 JAN 0240	177	0.	*	2 JAN 0855	252	2.
1 JAN 1415	28	0.	*	1 JAN 2030	103	0.	*	2 JAN 0245	178	0.	*	2 JAN 0900	253	2.
1 JAN 1420	29	0.	*	1 JAN 2035	104	0.	*	2 JAN 0250	179	0.	*	2 JAN 0905	254	2.
1 JAN 1425	30	0.	*	1 JAN 2040	105	0.	*	2 JAN 0255	180	0.	*	2 JAN 0910	255	2.
1 JAN 1430	31	0.	*	1 JAN 2045	106	0.	*	2 JAN 0300	181	0.	*	2 JAN 0915	256	2.
1 JAN 1435	32	0.	*	1 JAN 2050	107	0.	*	2 JAN 0305	182	0.	*	2 JAN 0920	257	2.
1 JAN 1440	33	0.	*	1 JAN 2055	108	0.	*	2 JAN 0310	183	0.	*	2 JAN 0925	258	2.
1 JAN 1445	34	0.	*	1 JAN 2100	109	0.	*	2 JAN 0315	184	1.	*	2 JAN 0930	259	2.
1 JAN 1450	35	0.	*	1 JAN 2105	110	0.	*	2 JAN 0320	185	1.	*	2 JAN 0935	260	2.
1 JAN 1455	36	0.	*	1 JAN 2110	111	0.	*	2 JAN 0325	186	1.	*	2 JAN 0940	261	2.
1 JAN 1500	37	0.	*	1 JAN 2115	112	0.	*	2 JAN 0330	187	1.	*	2 JAN 0945	262	2.
1 JAN 1505	38	0.	*	1 JAN 2120	113	0.	*	2 JAN 0335	188	2.	*	2 JAN 0950	263	2.
1 JAN 1510	39	0.	*	1 JAN 2125	114	0.	*	2 JAN 0340	189	2.	*	2 JAN 0955	264	2.
1 JAN 1515	40	0.	*	1 JAN 2130	115	0.	*	2 JAN 0345	190	2.	*	2 JAN 1000	265	2.
1 JAN 1520	41	0.	*	1 JAN 2135	116	0.	*	2 JAN 0350	191	3.	*	2 JAN 1005	266	2.
1 JAN 1525	42	0.	*	1 JAN 2140	117	0.	*	2 JAN 0355	192	5.	*	2 JAN 1010	267	2.
1 JAN 1530	43	0.	*	1 JAN 2145	118	0.	*	2 JAN 0400	193	12.	*	2 JAN 1015	268	2.
1 JAN 1535	44	0.	*	1 JAN 2150	119	0.	*	2 JAN 0405	194	9.	*	2 JAN 1020	269	2.

1 JAN	1540	45	0.	*	1 JAN	2155	120	0.	*	2 JAN	0410	195	5.	*	2 JAN	1025	270	2.
1 JAN	1545	46	0.	*	1 JAN	2200	121	0.	*	2 JAN	0415	196	4.	*	2 JAN	1030	271	2.
1 JAN	1550	47	0.	*	1 JAN	2205	122	0.	*	2 JAN	0420	197	3.	*	2 JAN	1035	272	2.
1 JAN	1555	48	0.	*	1 JAN	2210	123	0.	*	2 JAN	0425	198	3.	*	2 JAN	1040	273	2.
1 JAN	1600	49	0.	*	1 JAN	2215	124	0.	*	2 JAN	0430	199	3.	*	2 JAN	1045	274	2.
1 JAN	1605	50	0.	*	1 JAN	2220	125	0.	*	2 JAN	0435	200	3.	*	2 JAN	1050	275	2.
1 JAN	1610	51	0.	*	1 JAN	2225	126	0.	*	2 JAN	0440	201	3.	*	2 JAN	1055	276	2.
1 JAN	1615	52	0.	*	1 JAN	2230	127	0.	*	2 JAN	0445	202	3.	*	2 JAN	1100	277	2.
1 JAN	1620	53	0.	*	1 JAN	2235	128	0.	*	2 JAN	0450	203	3.	*	2 JAN	1105	278	2.
1 JAN	1625	54	0.	*	1 JAN	2240	129	0.	*	2 JAN	0455	204	3.	*	2 JAN	1110	279	2.
1 JAN	1630	55	0.	*	1 JAN	2245	130	0.	*	2 JAN	0500	205	3.	*	2 JAN	1115	280	2.
1 JAN	1635	56	0.	*	1 JAN	2250	131	0.	*	2 JAN	0505	206	2.	*	2 JAN	1120	281	2.
1 JAN	1640	57	0.	*	1 JAN	2255	132	0.	*	2 JAN	0510	207	2.	*	2 JAN	1125	282	2.
1 JAN	1645	58	0.	*	1 JAN	2300	133	0.	*	2 JAN	0515	208	2.	*	2 JAN	1130	283	2.
1 JAN	1650	59	0.	*	1 JAN	2305	134	0.	*	2 JAN	0520	209	2.	*	2 JAN	1135	284	2.
1 JAN	1655	60	0.	*	1 JAN	2310	135	0.	*	2 JAN	0525	210	2.	*	2 JAN	1140	285	2.
1 JAN	1700	61	0.	*	1 JAN	2315	136	0.	*	2 JAN	0530	211	2.	*	2 JAN	1145	286	2.
1 JAN	1705	62	0.	*	1 JAN	2320	137	0.	*	2 JAN	0535	212	2.	*	2 JAN	1150	287	2.
1 JAN	1710	63	0.	*	1 JAN	2325	138	0.	*	2 JAN	0540	213	2.	*	2 JAN	1155	288	2.
1 JAN	1715	64	0.	*	1 JAN	2330	139	0.	*	2 JAN	0545	214	2.	*	2 JAN	1200	289	2.
1 JAN	1720	65	0.	*	1 JAN	2335	140	0.	*	2 JAN	0550	215	2.	*	2 JAN	1205	290	2.
1 JAN	1725	66	0.	*	1 JAN	2340	141	0.	*	2 JAN	0555	216	2.	*	2 JAN	1210	291	2.
1 JAN	1730	67	0.	*	1 JAN	2345	142	0.	*	2 JAN	0600	217	2.	*	2 JAN	1215	292	2.
1 JAN	1735	68	0.	*	1 JAN	2350	143	0.	*	2 JAN	0605	218	2.	*	2 JAN	1220	293	2.
1 JAN	1740	69	0.	*	1 JAN	2355	144	0.	*	2 JAN	0610	219	2.	*	2 JAN	1225	294	2.
1 JAN	1745	70	0.	*	2 JAN	0000	145	0.	*	2 JAN	0615	220	2.	*	2 JAN	1230	295	2.
1 JAN	1750	71	0.	*	2 JAN	0005	146	0.	*	2 JAN	0620	221	2.	*	2 JAN	1235	296	2.
1 JAN	1755	72	0.	*	2 JAN	0010	147	0.	*	2 JAN	0625	222	2.	*	2 JAN	1240	297	2.
1 JAN	1800	73	0.	*	2 JAN	0015	148	0.	*	2 JAN	0630	223	2.	*	2 JAN	1245	298	2.
1 JAN	1805	74	0.	*	2 JAN	0020	149	0.	*	2 JAN	0635	224	2.	*	2 JAN	1250	299	2.
1 JAN	1810	75	0.	*	2 JAN	0025	150	0.	*	2 JAN	0640	225	2.	*	2 JAN	1255	300	2.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
12.	16.00	(CFS)	3.	1.	1.	1.
		(INCHES)	.217	.312	.312	.312
		(AC-FT)	1.	2.	2.	2.

CUMULATIVE AREA = .11 SQ MI

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          *            *
192 KK    *     RT_34  *
          *            *
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193 KO OUTPUT CONTROL VARIABLES

IPRNT	1	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	21	SAVE HYDROGRAPH ON THIS UNIT

ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	300	LAST ORDINATE PUNCHED OR SAVED
TIMINT	.083	TIME INTERVAL IN HOURS

ROUTE FROM CONNECTION 3 TO CONNECTION 4 THROUGH 24" PIPE
THE CHANNEL GEOMETRY IS REPRESENTATIVE OF AN 1.8'X 1.8' BOX, WHICH HAS
THE SAME X-SECTIONAL AREA AS A 24" PIPE

HYDROGRAPH ROUTING DATA

197 RS STORAGE ROUTING

NSTPS	2	NUMBER OF SUBREACHES
ITYP	STOR	TYPE OF INITIAL CONDITION
RSVRIC	-1.00	INITIAL CONDITION
X	.00	WORKING R AND D COEFFICIENT

198 RC NORMAL DEPTH CHANNEL

ANL	.013	LEFT OVERBANK N-VALUE
ANCH	.013	MAIN CHANNEL N-VALUE
ANR	.013	RIGHT OVERBANK N-VALUE
RLNTH	1225.	REACH LENGTH
SEL	.0025	ENERGY SLOPE
ELMAX	.0	MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

CROSS-SECTION DATA

		--- LEFT OVERBANK ---		+ ------ MAIN CHANNEL -------			+ --- RIGHT OVERBANK ---		
200 RY	ELEVATION	2.80	2.80	2.80	1.00	1.00	2.80	2.80	2.80
199 RX	DISTANCE	1.00	2.00	5.00	5.00	6.80	6.80	7.00	8.00

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COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	.00	.01	.01	.02	.02	.03	.03	.04	.04
OUTFLOW	.00	.19	.57	1.06	1.62	2.24	2.90	3.60	4.32	5.07
ELEVATION	1.00	1.09	1.19	1.28	1.38	1.47	1.57	1.66	1.76	1.85
STORAGE	.05	.05	.06	.06	.07	.07	.08	.08	.09	.09
OUTFLOW	5.84	6.62	7.41	8.22	9.03	9.85	10.68	11.52	12.36	13.21
ELEVATION	1.95	2.04	2.14	2.23	2.33	2.42	2.52	2.61	2.71	2.80

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 3. TO 13.
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

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HYDROGRAPH AT STATION RT_34

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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 JAN 1200	1	0.	.0	1.0	1 JAN 2020	101	0.	.0	1.0	2 JAN 0440	201	3.	.0	1.6
1 JAN 1205	2	0.	.0	1.0	1 JAN 2025	102	0.	.0	1.0	2 JAN 0445	202	3.	.0	1.5
1 JAN 1210	3	0.	.0	1.0	1 JAN 2030	103	0.	.0	1.0	2 JAN 0450	203	3.	.0	1.5
1 JAN 1215	4	0.	.0	1.0	1 JAN 2035	104	0.	.0	1.0	2 JAN 0455	204	3.	.0	1.5
1 JAN 1220	5	0.	.0	1.0	1 JAN 2040	105	0.	.0	1.0	2 JAN 0500	205	3.	.0	1.5
1 JAN 1225	6	0.	.0	1.0	1 JAN 2045	106	0.	.0	1.0	2 JAN 0505	206	3.	.0	1.5

1 JAN 1230	7	0.	.0	1.0 *	1 JAN 2050 107	0.	.0	1.0 *	2 JAN 0510 207	2.	.0	1.5
1 JAN 1235	8	0.	.0	1.0 *	1 JAN 2055 108	0.	.0	1.0 *	2 JAN 0515 208	2.	.0	1.5
1 JAN 1240	9	0.	.0	1.0 *	1 JAN 2100 109	0.	.0	1.0 *	2 JAN 0520 209	2.	.0	1.5
1 JAN 1245	10	0.	.0	1.0 *	1 JAN 2105 110	0.	.0	1.0 *	2 JAN 0525 210	2.	.0	1.5
1 JAN 1250	11	0.	.0	1.0 *	1 JAN 2110 111	0.	.0	1.0 *	2 JAN 0530 211	2.	.0	1.5
1 JAN 1255	12	0.	.0	1.0 *	1 JAN 2115 112	0.	.0	1.0 *	2 JAN 0535 212	2.	.0	1.5
1 JAN 1300	13	0.	.0	1.0 *	1 JAN 2120 113	0.	.0	1.0 *	2 JAN 0540 213	2.	.0	1.5
1 JAN 1305	14	0.	.0	1.0 *	1 JAN 2125 114	0.	.0	1.0 *	2 JAN 0545 214	2.	.0	1.5
1 JAN 1310	15	0.	.0	1.0 *	1 JAN 2130 115	0.	.0	1.0 *	2 JAN 0550 215	2.	.0	1.5
1 JAN 1315	16	0.	.0	1.0 *	1 JAN 2135 116	0.	.0	1.0 *	2 JAN 0555 216	2.	.0	1.5
1 JAN 1320	17	0.	.0	1.0 *	1 JAN 2140 117	0.	.0	1.0 *	2 JAN 0600 217	2.	.0	1.5
1 JAN 1325	18	0.	.0	1.0 *	1 JAN 2145 118	0.	.0	1.0 *	2 JAN 0605 218	2.	.0	1.5
1 JAN 1330	19	0.	.0	1.0 *	1 JAN 2150 119	0.	.0	1.0 *	2 JAN 0610 219	2.	.0	1.5
1 JAN 1335	20	0.	.0	1.0 *	1 JAN 2155 120	0.	.0	1.0 *	2 JAN 0615 220	2.	.0	1.5
1 JAN 1340	21	0.	.0	1.0 *	1 JAN 2200 121	0.	.0	1.0 *	2 JAN 0620 221	2.	.0	1.5
1 JAN 1345	22	0.	.0	1.0 *	1 JAN 2205 122	0.	.0	1.0 *	2 JAN 0625 222	2.	.0	1.5
1 JAN 1350	23	0.	.0	1.0 *	1 JAN 2210 123	0.	.0	1.0 *	2 JAN 0630 223	2.	.0	1.5
1 JAN 1355	24	0.	.0	1.0 *	1 JAN 2215 124	0.	.0	1.0 *	2 JAN 0635 224	2.	.0	1.5
1 JAN 1400	25	0.	.0	1.0 *	1 JAN 2220 125	0.	.0	1.0 *	2 JAN 0640 225	2.	.0	1.5
1 JAN 1405	26	0.	.0	1.0 *	1 JAN 2225 126	0.	.0	1.0 *	2 JAN 0645 226	2.	.0	1.5
1 JAN 1410	27	0.	.0	1.0 *	1 JAN 2230 127	0.	.0	1.0 *	2 JAN 0650 227	2.	.0	1.5
1 JAN 1415	28	0.	.0	1.0 *	1 JAN 2235 128	0.	.0	1.0 *	2 JAN 0655 228	2.	.0	1.5
1 JAN 1420	29	0.	.0	1.0 *	1 JAN 2240 129	0.	.0	1.0 *	2 JAN 0700 229	2.	.0	1.5
1 JAN 1425	30	0.	.0	1.0 *	1 JAN 2245 130	0.	.0	1.0 *	2 JAN 0705 230	2.	.0	1.5
1 JAN 1430	31	0.	.0	1.0 *	1 JAN 2250 131	0.	.0	1.0 *	2 JAN 0710 231	2.	.0	1.4
1 JAN 1435	32	0.	.0	1.0 *	1 JAN 2255 132	0.	.0	1.0 *	2 JAN 0715 232	2.	.0	1.4
1 JAN 1440	33	0.	.0	1.0 *	1 JAN 2300 133	0.	.0	1.0 *	2 JAN 0720 233	2.	.0	1.4
1 JAN 1445	34	0.	.0	1.0 *	1 JAN 2305 134	0.	.0	1.0 *	2 JAN 0725 234	2.	.0	1.4
1 JAN 1450	35	0.	.0	1.0 *	1 JAN 2310 135	0.	.0	1.0 *	2 JAN 0730 235	2.	.0	1.4
1 JAN 1455	36	0.	.0	1.0 *	1 JAN 2315 136	0.	.0	1.0 *	2 JAN 0735 236	2.	.0	1.4
1 JAN 1500	37	0.	.0	1.0 *	1 JAN 2320 137	0.	.0	1.0 *	2 JAN 0740 237	2.	.0	1.4
1 JAN 1505	38	0.	.0	1.0 *	1 JAN 2325 138	0.	.0	1.0 *	2 JAN 0745 238	2.	.0	1.4
1 JAN 1510	39	0.	.0	1.0 *	1 JAN 2330 139	0.	.0	1.0 *	2 JAN 0750 239	2.	.0	1.4
1 JAN 1515	40	0.	.0	1.0 *	1 JAN 2335 140	0.	.0	1.0 *	2 JAN 0755 240	2.	.0	1.4
1 JAN 1520	41	0.	.0	1.0 *	1 JAN 2340 141	0.	.0	1.0 *	2 JAN 0800 241	2.	.0	1.4
1 JAN 1525	42	0.	.0	1.0 *	1 JAN 2345 142	0.	.0	1.0 *	2 JAN 0805 242	2.	.0	1.4
1 JAN 1530	43	0.	.0	1.0 *	1 JAN 2350 143	0.	.0	1.0 *	2 JAN 0810 243	2.	.0	1.4
1 JAN 1535	44	0.	.0	1.0 *	1 JAN 2355 144	0.	.0	1.0 *	2 JAN 0815 244	2.	.0	1.4
1 JAN 1540	45	0.	.0	1.0 *	2 JAN 0000 145	0.	.0	1.0 *	2 JAN 0820 245	2.	.0	1.4
1 JAN 1545	46	0.	.0	1.0 *	2 JAN 0005 146	0.	.0	1.0 *	2 JAN 0825 246	2.	.0	1.4
1 JAN 1550	47	0.	.0	1.0 *	2 JAN 0010 147	0.	.0	1.0 *	2 JAN 0830 247	2.	.0	1.4
1 JAN 1555	48	0.	.0	1.0 *	2 JAN 0015 148	0.	.0	1.0 *	2 JAN 0835 248	2.	.0	1.4
1 JAN 1600	49	0.	.0	1.0 *	2 JAN 0020 149	0.	.0	1.0 *	2 JAN 0840 249	2.	.0	1.4
1 JAN 1605	50	0.	.0	1.0 *	2 JAN 0025 150	0.	.0	1.0 *	2 JAN 0845 250	2.	.0	1.4
1 JAN 1610	51	0.	.0	1.0 *	2 JAN 0030 151	0.	.0	1.0 *	2 JAN 0850 251	2.	.0	1.4
1 JAN 1615	52	0.	.0	1.0 *	2 JAN 0035 152	0.	.0	1.0 *	2 JAN 0855 252	2.	.0	1.4
1 JAN 1620	53	0.	.0	1.0 *	2 JAN 0040 153	0.	.0	1.0 *	2 JAN 0900 253	2.	.0	1.4
1 JAN 1625	54	0.	.0	1.0 *	2 JAN 0045 154	0.	.0	1.0 *	2 JAN 0905 254	2.	.0	1.4
1 JAN 1630	55	0.	.0	1.0 *	2 JAN 0050 155	0.	.0	1.0 *	2 JAN 0910 255	2.	.0	1.4
1 JAN 1635	56	0.	.0	1.0 *	2 JAN 0055 156	0.	.0	1.0 *	2 JAN 0915 256	2.	.0	1.4
1 JAN 1640	57	0.	.0	1.0 *	2 JAN 0100 157	0.	.0	1.0 *	2 JAN 0920 257	2.	.0	1.4
1 JAN 1645	58	0.	.0	1.0 *	2 JAN 0105 158	0.	.0	1.0 *	2 JAN 0925 258	2.	.0	1.4
1 JAN 1650	59	0.	.0	1.0 *	2 JAN 0110 159	0.	.0	1.0 *	2 JAN 0930 259	2.	.0	1.4
1 JAN 1655	60	0.	.0	1.0 *	2 JAN 0115 160	0.	.0	1.0 *	2 JAN 0935 260	2.	.0	1.4
1 JAN 1700	61	0.	.0	1.0 *	2 JAN 0120 161	0.	.0	1.0 *	2 JAN 0940 261	2.	.0	1.4
1 JAN 1705	62	0.	.0	1.0 *	2 JAN 0125 162	0.	.0	1.0 *	2 JAN 0945 262	2.	.0	1.4
1 JAN 1710	63	0.	.0	1.0 *	2 JAN 0130 163	0.	.0	1.0 *	2 JAN 0950 263	2.	.0	1.4
1 JAN 1715	64	0.	.0	1.0 *	2 JAN 0135 164	0.	.0	1.0 *	2 JAN 0955 264	2.	.0	1.4
1 JAN 1720	65	0.	.0	1.0 *	2 JAN 0140 165	0.	.0	1.0 *	2 JAN 1000 265	2.	.0	1.4
1 JAN 1725	66	0.	.0	1.0 *	2 JAN 0145 166	0.	.0	1.0 *	2 JAN 1005 266	2.	.0	1.4

1 JAN 1730	67	0.	.0	1.0	*	2 JAN 0150	167	0.	.0	1.0	*	2 JAN 1010	267	2.	.0	1.4
1 JAN 1735	68	0.	.0	1.0	*	2 JAN 0155	168	0.	.0	1.0	*	2 JAN 1015	268	2.	.0	1.4
1 JAN 1740	69	0.	.0	1.0	*	2 JAN 0200	169	0.	.0	1.0	*	2 JAN 1020	269	2.	.0	1.4
1 JAN 1745	70	0.	.0	1.0	*	2 JAN 0205	170	0.	.0	1.0	*	2 JAN 1025	270	2.	.0	1.4
1 JAN 1750	71	0.	.0	1.0	*	2 JAN 0210	171	0.	.0	1.0	*	2 JAN 1030	271	2.	.0	1.4
1 JAN 1755	72	0.	.0	1.0	*	2 JAN 0215	172	0.	.0	1.0	*	2 JAN 1035	272	2.	.0	1.4
1 JAN 1800	73	0.	.0	1.0	*	2 JAN 0220	173	0.	.0	1.0	*	2 JAN 1040	273	2.	.0	1.4
1 JAN 1805	74	0.	.0	1.0	*	2 JAN 0225	174	0.	.0	1.0	*	2 JAN 1045	274	2.	.0	1.4
1 JAN 1810	75	0.	.0	1.0	*	2 JAN 0230	175	0.	.0	1.0	*	2 JAN 1050	275	2.	.0	1.4
1 JAN 1815	76	0.	.0	1.0	*	2 JAN 0235	176	0.	.0	1.0	*	2 JAN 1055	276	2.	.0	1.4
1 JAN 1820	77	0.	.0	1.0	*	2 JAN 0240	177	0.	.0	1.0	*	2 JAN 1100	277	2.	.0	1.4
1 JAN 1825	78	0.	.0	1.0	*	2 JAN 0245	178	0.	.0	1.0	*	2 JAN 1105	278	2.	.0	1.4
1 JAN 1830	79	0.	.0	1.0	*	2 JAN 0250	179	0.	.0	1.1	*	2 JAN 1110	279	2.	.0	1.4
1 JAN 1835	80	0.	.0	1.0	*	2 JAN 0255	180	0.	.0	1.1	*	2 JAN 1115	280	2.	.0	1.4
1 JAN 1840	81	0.	.0	1.0	*	2 JAN 0300	181	0.	.0	1.1	*	2 JAN 1120	281	2.	.0	1.4
1 JAN 1845	82	0.	.0	1.0	*	2 JAN 0305	182	0.	.0	1.1	*	2 JAN 1125	282	2.	.0	1.4
1 JAN 1850	83	0.	.0	1.0	*	2 JAN 0310	183	0.	.0	1.1	*	2 JAN 1130	283	2.	.0	1.4
1 JAN 1855	84	0.	.0	1.0	*	2 JAN 0315	184	0.	.0	1.1	*	2 JAN 1135	284	2.	.0	1.4
1 JAN 1900	85	0.	.0	1.0	*	2 JAN 0320	185	0.	.0	1.2	*	2 JAN 1140	285	2.	.0	1.4
1 JAN 1905	86	0.	.0	1.0	*	2 JAN 0325	186	1.	.0	1.2	*	2 JAN 1145	286	2.	.0	1.4
1 JAN 1910	87	0.	.0	1.0	*	2 JAN 0330	187	1.	.0	1.3	*	2 JAN 1150	287	2.	.0	1.4
1 JAN 1915	88	0.	.0	1.0	*	2 JAN 0335	188	1.	.0	1.3	*	2 JAN 1155	288	2.	.0	1.4
1 JAN 1920	89	0.	.0	1.0	*	2 JAN 0340	189	2.	.0	1.4	*	2 JAN 1200	289	2.	.0	1.4
1 JAN 1925	90	0.	.0	1.0	*	2 JAN 0345	190	2.	.0	1.4	*	2 JAN 1205	290	2.	.0	1.4
1 JAN 1930	91	0.	.0	1.0	*	2 JAN 0350	191	3.	.0	1.5	*	2 JAN 1210	291	2.	.0	1.4
1 JAN 1935	92	0.	.0	1.0	*	2 JAN 0355	192	3.	.0	1.6	*	2 JAN 1215	292	2.	.0	1.4
1 JAN 1940	93	0.	.0	1.0	*	2 JAN 0400	193	6.	.0	2.0	*	2 JAN 1220	293	2.	.0	1.4
1 JAN 1945	94	0.	.0	1.0	*	2 JAN 0405	194	10.	.0	2.4	*	2 JAN 1225	294	2.	.0	1.4
1 JAN 1950	95	0.	.0	1.0	*	2 JAN 0410	195	9.	.0	2.3	*	2 JAN 1230	295	2.	.0	1.4
1 JAN 1955	96	0.	.0	1.0	*	2 JAN 0415	196	6.	.0	1.9	*	2 JAN 1235	296	2.	.0	1.4
1 JAN 2000	97	0.	.0	1.0	*	2 JAN 0420	197	4.	.0	1.7	*	2 JAN 1240	297	2.	.0	1.4
1 JAN 2005	98	0.	.0	1.0	*	2 JAN 0425	198	3.	.0	1.6	*	2 JAN 1245	298	2.	.0	1.4
1 JAN 2010	99	0.	.0	1.0	*	2 JAN 0430	199	3.	.0	1.6	*	2 JAN 1250	299	2.	.0	1.4
1 JAN 2015	100	0.	.0	1.0	*	2 JAN 0435	200	3.	.0	1.6	*	2 JAN 1255	300	2.	.0	1.4
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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
10.	16.08	(CFS)	3.	1.	1.	1.
		(INCHES)	.217	.309	.309	.309
		(AC-FT)	1.	2.	2.	2.

PEAK STORAGE	TIME		MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)		6-HR	24-HR	72-HR	24.92-HR
0.	16.08		0.	0.	0.	0.

PEAK STAGE	TIME		MAXIMUM AVERAGE STAGE			
(FEET)	(HR)		6-HR	24-HR	72-HR	24.92-HR
2.45	16.08		1.51	1.19	1.18	1.18

CUMULATIVE AREA = .11 SQ MI

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201 KK    *  11_CON4  *
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BASIN 11 DRAINING TO 24" LINE

SUBBASIN RUNOFF DATA

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203 BA          SUBBASIN CHARACTERISTICS
                     TAREA         .04  SUBBASIN AREA
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PRECIPITATION DATA

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 27 PB               STORM        2.49  BASIN TOTAL PRECIPITATION

 27 PI            INCREMENTAL PRECIPITATION PATTERN
                    .00   .00   .00   .00   .00   .00   .00   .00   .00   .00
                    .00   .00   .00   .00   .00   .00   .00   .00   .00   .00
                    .00   .00   .00   .00   .00   .00   .00   .00   .00   .00
                    .00   .00   .00   .00   .00   .00   .00   .00   .00   .00
                    .00   .00   .00   .00   .00   .00   .00   .00   .00   .00
                    .00   .00   .00   .00   .00   .00   .00   .00   .00   .00
                    .00   .00   .00   .00   .00   .00   .00   .00   .00   .00
                    .00   .00   .00   .00   .00   .00   .00   .00   .00   .00
                    .00   .00   .00   .00   .00   .00   .00   .00   .00   .00
                    .00   .00   .00   .00   .00   .00   .00   .00   .00   .00
                    .00   .00   .00   .00   .00   .00   .00   .00   .00   .00
                    .00   .01   .01   .01   .01   .01   .01   .01   .01   .01
                    .01   .01   .01   .01   .01   .01   .01   .01   .01   .01
                    .01   .01   .01   .01   .01   .01   .01   .01   .01   .01
                    .01   .01   .01   .01   .01   .01   .01   .01   .01   .01
                    .01   .01   .01   .01   .01   .01   .01   .01   .01   .01
                    .01   .01   .01   .01   .01   .01   .01   .01   .01   .01
                    .01   .01   .01   .02   .02   .02   .02   .02   .02   .02
                    .02   .02   .02   .03   .03   .03   .03   .04   .05   .07
                    .10   .35   .06   .04   .03   .02   .02   .02   .02   .02
                    .01   .01   .01   .01   .01   .01   .01   .01   .01   .01
                    .01   .01   .01   .01   .01   .01   .01   .01   .01   .01
                    .01   .01   .01   .01   .01   .01   .01   .01   .01   .01
                    .01   .01   .00   .00   .00   .00   .00   .00   .00   .00
                    .00   .00   .00   .00   .00   .00   .00   .00   .00   .00
                    .00   .00   .00   .00   .00   .00   .00   .00   .00   .00
                    .00   .00   .00   .00   .00   .00   .00   .00   .00   .00
                    .00   .00   .00   .00   .00   .00   .00   .00   .00   .00
                    .00   .00   .00   .00   .00   .00   .00

204 LS          SCS LOSS RATE
                     STRTL         .82  INITIAL ABSTRACTION
                    CRVNBR       71.00  CURVE NUMBER
                     RTIMP         .00  PERCENT IMPERVIOUS AREA

205 UD          SCS DIMENSIONLESS UNITGRAPH
                     TLAG         .13  LAG
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WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

UNIT HYDROGRAPH

10 END-OF-PERIOD ORDINATES

48. 111. 83. 36. 17. 9. 4. 2. 1. 0.

HYDROGRAPH AT STATION 11_CON4

DA MON HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	DA MON HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1 JAN 1200	1	.00	.00	.00	0.	2 JAN 0030	151	.01	.01	.00	0.
1 JAN 1205	2	.00	.00	.00	0.	2 JAN 0035	152	.01	.01	.00	0.
1 JAN 1210	3	.00	.00	.00	0.	2 JAN 0040	153	.01	.01	.00	0.
1 JAN 1215	4	.00	.00	.00	0.	2 JAN 0045	154	.01	.01	.00	0.
1 JAN 1220	5	.00	.00	.00	0.	2 JAN 0050	155	.01	.01	.00	0.
1 JAN 1225	6	.00	.00	.00	0.	2 JAN 0055	156	.01	.01	.00	0.
1 JAN 1230	7	.00	.00	.00	0.	2 JAN 0100	157	.01	.01	.00	0.
1 JAN 1235	8	.00	.00	.00	0.	2 JAN 0105	158	.01	.01	.00	0.
1 JAN 1240	9	.00	.00	.00	0.	2 JAN 0110	159	.01	.01	.00	0.
1 JAN 1245	10	.00	.00	.00	0.	2 JAN 0115	160	.01	.01	.00	0.
1 JAN 1250	11	.00	.00	.00	0.	2 JAN 0120	161	.01	.01	.00	0.
1 JAN 1255	12	.00	.00	.00	0.	2 JAN 0125	162	.01	.01	.00	0.
1 JAN 1300	13	.00	.00	.00	0.	2 JAN 0130	163	.01	.01	.00	0.
1 JAN 1305	14	.00	.00	.00	0.	2 JAN 0135	164	.01	.01	.00	0.
1 JAN 1310	15	.00	.00	.00	0.	2 JAN 0140	165	.01	.01	.00	0.
1 JAN 1315	16	.00	.00	.00	0.	2 JAN 0145	166	.01	.01	.00	0.
1 JAN 1320	17	.00	.00	.00	0.	2 JAN 0150	167	.01	.01	.00	0.
1 JAN 1325	18	.00	.00	.00	0.	2 JAN 0155	168	.01	.01	.00	0.
1 JAN 1330	19	.00	.00	.00	0.	2 JAN 0200	169	.01	.01	.00	0.
1 JAN 1335	20	.00	.00	.00	0.	2 JAN 0205	170	.01	.01	.00	0.
1 JAN 1340	21	.00	.00	.00	0.	2 JAN 0210	171	.01	.01	.00	0.
1 JAN 1345	22	.00	.00	.00	0.	2 JAN 0215	172	.01	.01	.00	0.
1 JAN 1350	23	.00	.00	.00	0.	2 JAN 0220	173	.01	.01	.00	0.
1 JAN 1355	24	.00	.00	.00	0.	2 JAN 0225	174	.01	.01	.00	0.
1 JAN 1400	25	.00	.00	.00	0.	2 JAN 0230	175	.02	.01	.00	0.
1 JAN 1405	26	.00	.00	.00	0.	2 JAN 0235	176	.02	.01	.00	0.
1 JAN 1410	27	.00	.00	.00	0.	2 JAN 0240	177	.02	.02	.00	0.
1 JAN 1415	28	.00	.00	.00	0.	2 JAN 0245	178	.02	.02	.00	0.
1 JAN 1420	29	.00	.00	.00	0.	2 JAN 0250	179	.02	.02	.00	0.
1 JAN 1425	30	.00	.00	.00	0.	2 JAN 0255	180	.02	.02	.00	0.
1 JAN 1430	31	.00	.00	.00	0.	2 JAN 0300	181	.02	.02	.00	0.
1 JAN 1435	32	.00	.00	.00	0.	2 JAN 0305	182	.02	.02	.00	0.
1 JAN 1440	33	.00	.00	.00	0.	2 JAN 0310	183	.02	.02	.00	1.
1 JAN 1445	34	.00	.00	.00	0.	2 JAN 0315	184	.02	.02	.00	1.
1 JAN 1450	35	.00	.00	.00	0.	2 JAN 0320	185	.03	.02	.00	1.
1 JAN 1455	36	.00	.00	.00	0.	2 JAN 0325	186	.03	.02	.00	1.
1 JAN 1500	37	.00	.00	.00	0.	2 JAN 0330	187	.03	.03	.00	1.
1 JAN 1505	38	.00	.00	.00	0.	2 JAN 0335	188	.03	.03	.01	1.
1 JAN 1510	39	.00	.00	.00	0.	2 JAN 0340	189	.04	.03	.01	2.
1 JAN 1515	40	.00	.00	.00	0.	2 JAN 0345	190	.05	.04	.01	2.
1 JAN 1520	41	.00	.00	.00	0.	2 JAN 0350	191	.07	.05	.01	3.
1 JAN 1525	42	.00	.00	.00	0.	2 JAN 0355	192	.10	.07	.02	4.
1 JAN 1530	43	.00	.00	.00	0.	2 JAN 0400	193	.35	.24	.11	9.
1 JAN 1535	44	.00	.00	.00	0.	2 JAN 0405	194	.06	.04	.02	16.
1 JAN 1540	45	.00	.00	.00	0.	2 JAN 0410	195	.04	.02	.01	13.
1 JAN 1545	46	.00	.00	.00	0.	2 JAN 0415	196	.03	.02	.01	8.
1 JAN 1550	47	.00	.00	.00	0.	2 JAN 0420	197	.02	.01	.01	6.
1 JAN 1555	48	.00	.00	.00	0.	2 JAN 0425	198	.02	.01	.01	4.
1 JAN 1600	49	.00	.00	.00	0.	2 JAN 0430	199	.02	.01	.01	3.
1 JAN 1605	50	.00	.00	.00	0.	2 JAN 0435	200	.02	.01	.01	3.

1 JAN 1610	51	.00	.00	.00	0.	*	2 JAN 0440	201	.02	.01	.01	2.
1 JAN 1615	52	.00	.00	.00	0.	*	2 JAN 0445	202	.01	.01	.01	2.
1 JAN 1620	53	.00	.00	.00	0.	*	2 JAN 0450	203	.01	.01	.01	2.
1 JAN 1625	54	.00	.00	.00	0.	*	2 JAN 0455	204	.01	.01	.01	2.
1 JAN 1630	55	.00	.00	.00	0.	*	2 JAN 0500	205	.01	.01	.01	2.
1 JAN 1635	56	.00	.00	.00	0.	*	2 JAN 0505	206	.01	.01	.00	2.
1 JAN 1640	57	.00	.00	.00	0.	*	2 JAN 0510	207	.01	.01	.00	2.
1 JAN 1645	58	.00	.00	.00	0.	*	2 JAN 0515	208	.01	.01	.00	2.
1 JAN 1650	59	.00	.00	.00	0.	*	2 JAN 0520	209	.01	.01	.00	1.
1 JAN 1655	60	.00	.00	.00	0.	*	2 JAN 0525	210	.01	.01	.00	1.
1 JAN 1700	61	.00	.00	.00	0.	*	2 JAN 0530	211	.01	.01	.00	1.
1 JAN 1705	62	.00	.00	.00	0.	*	2 JAN 0535	212	.01	.01	.00	1.
1 JAN 1710	63	.00	.00	.00	0.	*	2 JAN 0540	213	.01	.01	.00	1.
1 JAN 1715	64	.00	.00	.00	0.	*	2 JAN 0545	214	.01	.00	.00	1.
1 JAN 1720	65	.00	.00	.00	0.	*	2 JAN 0550	215	.01	.00	.00	1.
1 JAN 1725	66	.00	.00	.00	0.	*	2 JAN 0555	216	.01	.00	.00	1.
1 JAN 1730	67	.00	.00	.00	0.	*	2 JAN 0600	217	.01	.00	.00	1.
1 JAN 1735	68	.00	.00	.00	0.	*	2 JAN 0605	218	.01	.00	.00	1.
1 JAN 1740	69	.00	.00	.00	0.	*	2 JAN 0610	219	.01	.00	.00	1.
1 JAN 1745	70	.00	.00	.00	0.	*	2 JAN 0615	220	.01	.00	.00	1.
1 JAN 1750	71	.00	.00	.00	0.	*	2 JAN 0620	221	.01	.00	.00	1.
1 JAN 1755	72	.00	.00	.00	0.	*	2 JAN 0625	222	.01	.00	.00	1.
1 JAN 1800	73	.00	.00	.00	0.	*	2 JAN 0630	223	.01	.00	.00	1.
1 JAN 1805	74	.00	.00	.00	0.	*	2 JAN 0635	224	.01	.00	.00	1.
1 JAN 1810	75	.00	.00	.00	0.	*	2 JAN 0640	225	.01	.00	.00	1.
1 JAN 1815	76	.00	.00	.00	0.	*	2 JAN 0645	226	.01	.00	.00	1.
1 JAN 1820	77	.00	.00	.00	0.	*	2 JAN 0650	227	.01	.00	.00	1.
1 JAN 1825	78	.00	.00	.00	0.	*	2 JAN 0655	228	.01	.00	.00	1.
1 JAN 1830	79	.00	.00	.00	0.	*	2 JAN 0700	229	.01	.00	.00	1.
1 JAN 1835	80	.00	.00	.00	0.	*	2 JAN 0705	230	.01	.00	.00	1.
1 JAN 1840	81	.00	.00	.00	0.	*	2 JAN 0710	231	.01	.00	.00	1.
1 JAN 1845	82	.00	.00	.00	0.	*	2 JAN 0715	232	.01	.00	.00	1.
1 JAN 1850	83	.00	.00	.00	0.	*	2 JAN 0720	233	.01	.00	.00	1.
1 JAN 1855	84	.00	.00	.00	0.	*	2 JAN 0725	234	.00	.00	.00	1.
1 JAN 1900	85	.00	.00	.00	0.	*	2 JAN 0730	235	.00	.00	.00	1.
1 JAN 1905	86	.00	.00	.00	0.	*	2 JAN 0735	236	.00	.00	.00	1.
1 JAN 1910	87	.00	.00	.00	0.	*	2 JAN 0740	237	.00	.00	.00	1.
1 JAN 1915	88	.00	.00	.00	0.	*	2 JAN 0745	238	.00	.00	.00	1.
1 JAN 1920	89	.00	.00	.00	0.	*	2 JAN 0750	239	.00	.00	.00	1.
1 JAN 1925	90	.00	.00	.00	0.	*	2 JAN 0755	240	.00	.00	.00	1.
1 JAN 1930	91	.00	.00	.00	0.	*	2 JAN 0800	241	.00	.00	.00	1.
1 JAN 1935	92	.00	.00	.00	0.	*	2 JAN 0805	242	.00	.00	.00	1.
1 JAN 1940	93	.00	.00	.00	0.	*	2 JAN 0810	243	.00	.00	.00	1.
1 JAN 1945	94	.00	.00	.00	0.	*	2 JAN 0815	244	.00	.00	.00	1.
1 JAN 1950	95	.00	.00	.00	0.	*	2 JAN 0820	245	.00	.00	.00	1.
1 JAN 1955	96	.00	.00	.00	0.	*	2 JAN 0825	246	.00	.00	.00	1.
1 JAN 2000	97	.00	.00	.00	0.	*	2 JAN 0830	247	.00	.00	.00	1.
1 JAN 2005	98	.00	.00	.00	0.	*	2 JAN 0835	248	.00	.00	.00	1.
1 JAN 2010	99	.00	.00	.00	0.	*	2 JAN 0840	249	.00	.00	.00	1.
1 JAN 2015	100	.00	.00	.00	0.	*	2 JAN 0845	250	.00	.00	.00	1.
1 JAN 2020	101	.00	.00	.00	0.	*	2 JAN 0850	251	.00	.00	.00	1.
1 JAN 2025	102	.00	.00	.00	0.	*	2 JAN 0855	252	.00	.00	.00	1.
1 JAN 2030	103	.00	.00	.00	0.	*	2 JAN 0900	253	.00	.00	.00	1.
1 JAN 2035	104	.00	.00	.00	0.	*	2 JAN 0905	254	.00	.00	.00	1.
1 JAN 2040	105	.00	.00	.00	0.	*	2 JAN 0910	255	.00	.00	.00	1.
1 JAN 2045	106	.00	.00	.00	0.	*	2 JAN 0915	256	.00	.00	.00	1.
1 JAN 2050	107	.00	.00	.00	0.	*	2 JAN 0920	257	.00	.00	.00	1.
1 JAN 2055	108	.00	.00	.00	0.	*	2 JAN 0925	258	.00	.00	.00	1.
1 JAN 2100	109	.00	.00	.00	0.	*	2 JAN 0930	259	.00	.00	.00	1.
1 JAN 2105	110	.00	.00	.00	0.	*	2 JAN 0935	260	.00	.00	.00	1.

1 JAN 2110	111	.00	.00	.00	0.	*	2 JAN 0940	261	.00	.00	.00	1.
1 JAN 2115	112	.00	.00	.00	0.	*	2 JAN 0945	262	.00	.00	.00	1.
1 JAN 2120	113	.01	.01	.00	0.	*	2 JAN 0950	263	.00	.00	.00	1.
1 JAN 2125	114	.01	.01	.00	0.	*	2 JAN 0955	264	.00	.00	.00	1.
1 JAN 2130	115	.01	.01	.00	0.	*	2 JAN 1000	265	.00	.00	.00	1.
1 JAN 2135	116	.01	.01	.00	0.	*	2 JAN 1005	266	.00	.00	.00	1.
1 JAN 2140	117	.01	.01	.00	0.	*	2 JAN 1010	267	.00	.00	.00	1.
1 JAN 2145	118	.01	.01	.00	0.	*	2 JAN 1015	268	.00	.00	.00	1.
1 JAN 2150	119	.01	.01	.00	0.	*	2 JAN 1020	269	.00	.00	.00	0.
1 JAN 2155	120	.01	.01	.00	0.	*	2 JAN 1025	270	.00	.00	.00	0.
1 JAN 2200	121	.01	.01	.00	0.	*	2 JAN 1030	271	.00	.00	.00	0.
1 JAN 2205	122	.01	.01	.00	0.	*	2 JAN 1035	272	.00	.00	.00	0.
1 JAN 2210	123	.01	.01	.00	0.	*	2 JAN 1040	273	.00	.00	.00	0.
1 JAN 2215	124	.01	.01	.00	0.	*	2 JAN 1045	274	.00	.00	.00	0.
1 JAN 2220	125	.01	.01	.00	0.	*	2 JAN 1050	275	.00	.00	.00	0.
1 JAN 2225	126	.01	.01	.00	0.	*	2 JAN 1055	276	.00	.00	.00	0.
1 JAN 2230	127	.01	.01	.00	0.	*	2 JAN 1100	277	.00	.00	.00	0.
1 JAN 2235	128	.01	.01	.00	0.	*	2 JAN 1105	278	.00	.00	.00	0.
1 JAN 2240	129	.01	.01	.00	0.	*	2 JAN 1110	279	.00	.00	.00	0.
1 JAN 2245	130	.01	.01	.00	0.	*	2 JAN 1115	280	.00	.00	.00	0.
1 JAN 2250	131	.01	.01	.00	0.	*	2 JAN 1120	281	.00	.00	.00	0.
1 JAN 2255	132	.01	.01	.00	0.	*	2 JAN 1125	282	.00	.00	.00	0.
1 JAN 2300	133	.01	.01	.00	0.	*	2 JAN 1130	283	.00	.00	.00	0.
1 JAN 2305	134	.01	.01	.00	0.	*	2 JAN 1135	284	.00	.00	.00	0.
1 JAN 2310	135	.01	.01	.00	0.	*	2 JAN 1140	285	.00	.00	.00	0.
1 JAN 2315	136	.01	.01	.00	0.	*	2 JAN 1145	286	.00	.00	.00	0.
1 JAN 2320	137	.01	.01	.00	0.	*	2 JAN 1150	287	.00	.00	.00	0.
1 JAN 2325	138	.01	.01	.00	0.	*	2 JAN 1155	288	.00	.00	.00	0.
1 JAN 2330	139	.01	.01	.00	0.	*	2 JAN 1200	289	.00	.00	.00	0.
1 JAN 2335	140	.01	.01	.00	0.	*	2 JAN 1205	290	.00	.00	.00	0.
1 JAN 2340	141	.01	.01	.00	0.	*	2 JAN 1210	291	.00	.00	.00	0.
1 JAN 2345	142	.01	.01	.00	0.	*	2 JAN 1215	292	.00	.00	.00	0.
1 JAN 2350	143	.01	.01	.00	0.	*	2 JAN 1220	293	.00	.00	.00	0.
1 JAN 2355	144	.01	.01	.00	0.	*	2 JAN 1225	294	.00	.00	.00	0.
2 JAN 0000	145	.01	.01	.00	0.	*	2 JAN 1230	295	.00	.00	.00	0.
2 JAN 0005	146	.01	.01	.00	0.	*	2 JAN 1235	296	.00	.00	.00	0.
2 JAN 0010	147	.01	.01	.00	0.	*	2 JAN 1240	297	.00	.00	.00	0.
2 JAN 0015	148	.01	.01	.00	0.	*	2 JAN 1245	298	.00	.00	.00	0.
2 JAN 0020	149	.01	.01	.00	0.	*	2 JAN 1250	299	.00	.00	.00	0.
2 JAN 0025	150	.01	.01	.00	0.	*	2 JAN 1255	300	.00	.00	.00	0.
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TOTAL RAINFALL = 2.49, TOTAL LOSS = 2.01, TOTAL EXCESS = .49

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
16.	16.08	(CFS)	2.	1.	1.	1.
		(INCHES)	.423	.488	.488	.488
		(AC-FT)	1.	1.	1.	1.

CUMULATIVE AREA = .04 SQ MI

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206 KK MAIN_END

Q IN 24" MAIN LINE AFTER CONFLUENCE WITH BASIN 11

208 HC HYDROGRAPH COMBINATION

ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION MAIN_END

SUM OF 2 HYDROGRAPHS

DA MON HRMN	ORD	FLOW	DA MON HRMN	ORD	FLOW	DA MON HRMN	ORD	FLOW	DA MON HRMN	ORD	FLOW
1 JAN 1200	1	0.	1 JAN 1815	76	0.	2 JAN 0030	151	0.	2 JAN 0645	226	3.
1 JAN 1205	2	0.	1 JAN 1820	77	0.	2 JAN 0035	152	0.	2 JAN 0650	227	3.
1 JAN 1210	3	0.	1 JAN 1825	78	0.	2 JAN 0040	153	0.	2 JAN 0655	228	3.
1 JAN 1215	4	0.	1 JAN 1830	79	0.	2 JAN 0045	154	0.	2 JAN 0700	229	3.
1 JAN 1220	5	0.	1 JAN 1835	80	0.	2 JAN 0050	155	0.	2 JAN 0705	230	3.
1 JAN 1225	6	0.	1 JAN 1840	81	0.	2 JAN 0055	156	0.	2 JAN 0710	231	3.
1 JAN 1230	7	0.	1 JAN 1845	82	0.	2 JAN 0100	157	0.	2 JAN 0715	232	3.
1 JAN 1235	8	0.	1 JAN 1850	83	0.	2 JAN 0105	158	0.	2 JAN 0720	233	3.
1 JAN 1240	9	0.	1 JAN 1855	84	0.	2 JAN 0110	159	0.	2 JAN 0725	234	3.
1 JAN 1245	10	0.	1 JAN 1900	85	0.	2 JAN 0115	160	0.	2 JAN 0730	235	3.
1 JAN 1250	11	0.	1 JAN 1905	86	0.	2 JAN 0120	161	0.	2 JAN 0735	236	3.
1 JAN 1255	12	0.	1 JAN 1910	87	0.	2 JAN 0125	162	0.	2 JAN 0740	237	3.
1 JAN 1300	13	0.	1 JAN 1915	88	0.	2 JAN 0130	163	0.	2 JAN 0745	238	3.
1 JAN 1305	14	0.	1 JAN 1920	89	0.	2 JAN 0135	164	0.	2 JAN 0750	239	3.
1 JAN 1310	15	0.	1 JAN 1925	90	0.	2 JAN 0140	165	0.	2 JAN 0755	240	3.
1 JAN 1315	16	0.	1 JAN 1930	91	0.	2 JAN 0145	166	0.	2 JAN 0800	241	3.
1 JAN 1320	17	0.	1 JAN 1935	92	0.	2 JAN 0150	167	0.	2 JAN 0805	242	3.
1 JAN 1325	18	0.	1 JAN 1940	93	0.	2 JAN 0155	168	0.	2 JAN 0810	243	3.
1 JAN 1330	19	0.	1 JAN 1945	94	0.	2 JAN 0200	169	0.	2 JAN 0815	244	3.
1 JAN 1335	20	0.	1 JAN 1950	95	0.	2 JAN 0205	170	0.	2 JAN 0820	245	3.
1 JAN 1340	21	0.	1 JAN 1955	96	0.	2 JAN 0210	171	0.	2 JAN 0825	246	3.
1 JAN 1345	22	0.	1 JAN 2000	97	0.	2 JAN 0215	172	0.	2 JAN 0830	247	3.
1 JAN 1350	23	0.	1 JAN 2005	98	0.	2 JAN 0220	173	0.	2 JAN 0835	248	3.
1 JAN 1355	24	0.	1 JAN 2010	99	0.	2 JAN 0225	174	0.	2 JAN 0840	249	3.
1 JAN 1400	25	0.	1 JAN 2015	100	0.	2 JAN 0230	175	0.	2 JAN 0845	250	3.
1 JAN 1405	26	0.	1 JAN 2020	101	0.	2 JAN 0235	176	0.	2 JAN 0850	251	3.
1 JAN 1410	27	0.	1 JAN 2025	102	0.	2 JAN 0240	177	0.	2 JAN 0855	252	3.
1 JAN 1415	28	0.	1 JAN 2030	103	0.	2 JAN 0245	178	0.	2 JAN 0900	253	3.
1 JAN 1420	29	0.	1 JAN 2035	104	0.	2 JAN 0250	179	0.	2 JAN 0905	254	3.
1 JAN 1425	30	0.	1 JAN 2040	105	0.	2 JAN 0255	180	0.	2 JAN 0910	255	3.
1 JAN 1430	31	0.	1 JAN 2045	106	0.	2 JAN 0300	181	1.	2 JAN 0915	256	3.
1 JAN 1435	32	0.	1 JAN 2050	107	0.	2 JAN 0305	182	1.	2 JAN 0920	257	3.
1 JAN 1440	33	0.	1 JAN 2055	108	0.	2 JAN 0310	183	1.	2 JAN 0925	258	3.
1 JAN 1445	34	0.	1 JAN 2100	109	0.	2 JAN 0315	184	1.	2 JAN 0930	259	3.
1 JAN 1450	35	0.	1 JAN 2105	110	0.	2 JAN 0320	185	1.	2 JAN 0935	260	3.
1 JAN 1455	36	0.	1 JAN 2110	111	0.	2 JAN 0325	186	2.	2 JAN 0940	261	2.
1 JAN 1500	37	0.	1 JAN 2115	112	0.	2 JAN 0330	187	2.	2 JAN 0945	262	2.
1 JAN 1505	38	0.	1 JAN 2120	113	0.	2 JAN 0335	188	2.	2 JAN 0950	263	2.
1 JAN 1510	39	0.	1 JAN 2125	114	0.	2 JAN 0340	189	3.	2 JAN 0955	264	2.
1 JAN 1515	40	0.	1 JAN 2130	115	0.	2 JAN 0345	190	4.	2 JAN 1000	265	2.

1 JAN 1520	41	0.	*	1 JAN 2135	116	0.	*	2 JAN 0350	191	5.	*	2 JAN 1005	266	2.			
1 JAN 1525	42	0.	*	1 JAN 2140	117	0.	*	2 JAN 0355	192	7.	*	2 JAN 1010	267	2.			
1 JAN 1530	43	0.	*	1 JAN 2145	118	0.	*	2 JAN 0400	193	16.	*	2 JAN 1015	268	2.			
1 JAN 1535	44	0.	*	1 JAN 2150	119	0.	*	2 JAN 0405	194	26.	*	2 JAN 1020	269	2.			
1 JAN 1540	45	0.	*	1 JAN 2155	120	0.	*	2 JAN 0410	195	22.	*	2 JAN 1025	270	2.			
1 JAN 1545	46	0.	*	1 JAN 2200	121	0.	*	2 JAN 0415	196	14.	*	2 JAN 1030	271	2.			
1 JAN 1550	47	0.	*	1 JAN 2205	122	0.	*	2 JAN 0420	197	10.	*	2 JAN 1035	272	2.			
1 JAN 1555	48	0.	*	1 JAN 2210	123	0.	*	2 JAN 0425	198	8.	*	2 JAN 1040	273	2.			
1 JAN 1600	49	0.	*	1 JAN 2215	124	0.	*	2 JAN 0430	199	6.	*	2 JAN 1045	274	2.			
1 JAN 1605	50	0.	*	1 JAN 2220	125	0.	*	2 JAN 0435	200	6.	*	2 JAN 1050	275	2.			
1 JAN 1610	51	0.	*	1 JAN 2225	126	0.	*	2 JAN 0440	201	5.	*	2 JAN 1055	276	2.			
1 JAN 1615	52	0.	*	1 JAN 2230	127	0.	*	2 JAN 0445	202	5.	*	2 JAN 1100	277	2.			
1 JAN 1620	53	0.	*	1 JAN 2235	128	0.	*	2 JAN 0450	203	5.	*	2 JAN 1105	278	2.			
1 JAN 1625	54	0.	*	1 JAN 2240	129	0.	*	2 JAN 0455	204	4.	*	2 JAN 1110	279	2.			
1 JAN 1630	55	0.	*	1 JAN 2245	130	0.	*	2 JAN 0500	205	4.	*	2 JAN 1115	280	2.			
1 JAN 1635	56	0.	*	1 JAN 2250	131	0.	*	2 JAN 0505	206	4.	*	2 JAN 1120	281	2.			
1 JAN 1640	57	0.	*	1 JAN 2255	132	0.	*	2 JAN 0510	207	4.	*	2 JAN 1125	282	2.			
1 JAN 1645	58	0.	*	1 JAN 2300	133	0.	*	2 JAN 0515	208	4.	*	2 JAN 1130	283	2.			
1 JAN 1650	59	0.	*	1 JAN 2305	134	0.	*	2 JAN 0520	209	4.	*	2 JAN 1135	284	2.			
1 JAN 1655	60	0.	*	1 JAN 2310	135	0.	*	2 JAN 0525	210	4.	*	2 JAN 1140	285	2.			
1 JAN 1700	61	0.	*	1 JAN 2315	136	0.	*	2 JAN 0530	211	4.	*	2 JAN 1145	286	2.			
1 JAN 1705	62	0.	*	1 JAN 2320	137	0.	*	2 JAN 0535	212	4.	*	2 JAN 1150	287	2.			
1 JAN 1710	63	0.	*	1 JAN 2325	138	0.	*	2 JAN 0540	213	4.	*	2 JAN 1155	288	2.			
1 JAN 1715	64	0.	*	1 JAN 2330	139	0.	*	2 JAN 0545	214	4.	*	2 JAN 1200	289	2.			
1 JAN 1720	65	0.	*	1 JAN 2335	140	0.	*	2 JAN 0550	215	3.	*	2 JAN 1205	290	2.			
1 JAN 1725	66	0.	*	1 JAN 2340	141	0.	*	2 JAN 0555	216	3.	*	2 JAN 1210	291	2.			
1 JAN 1730	67	0.	*	1 JAN 2345	142	0.	*	2 JAN 0600	217	3.	*	2 JAN 1215	292	2.			
1 JAN 1735	68	0.	*	1 JAN 2350	143	0.	*	2 JAN 0605	218	3.	*	2 JAN 1220	293	2.			
1 JAN 1740	69	0.	*	1 JAN 2355	144	0.	*	2 JAN 0610	219	3.	*	2 JAN 1225	294	2.			
1 JAN 1745	70	0.	*	2 JAN 0000	145	0.	*	2 JAN 0615	220	3.	*	2 JAN 1230	295	2.			
1 JAN 1750	71	0.	*	2 JAN 0005	146	0.	*	2 JAN 0620	221	3.	*	2 JAN 1235	296	2.			
1 JAN 1755	72	0.	*	2 JAN 0010	147	0.	*	2 JAN 0625	222	3.	*	2 JAN 1240	297	2.			
1 JAN 1800	73	0.	*	2 JAN 0015	148	0.	*	2 JAN 0630	223	3.	*	2 JAN 1245	298	2.			
1 JAN 1805	74	0.	*	2 JAN 0020	149	0.	*	2 JAN 0635	224	3.	*	2 JAN 1250	299	2.			
1 JAN 1810	75	0.	*	2 JAN 0025	150	0.	*	2 JAN 0640	225	3.	*	2 JAN 1255	300	2.			
			*				*				*						

****

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
26.	16.08	(CFS)	4.	1.	1.	1.
		(INCHES)	.270	.357	.357	.357
		(AC-FT)	2.	3.	3.	3.

CUMULATIVE AREA = .15 SQ MI

RUNOFF SUMMARY

FLOW IN CUBIC FEET PER SECOND

TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD 6-HOUR	24-HOUR	72-HOUR	BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
HYDROGRAPH AT	1A	1.	16.08	0.	0.	0.	.01		
ROUTED TO	RT1A	0.	16.92	0.	0.	0.	.01	1.06	16.92
HYDROGRAPH AT	1	7.	16.25	2.	0.	0.	.09		
2 COMBINED AT	1_1A	7.	16.33	2.	1.	0.	.10		
HYDROGRAPH AT	2	15.	16.08	2.	1.	1.	.06		
2 COMBINED AT	2_1_1A	20.	16.17	4.	1.	1.	.16		
ROUTED TO	DET_2	0.	.00	0.	0.	0.	.16	66.37	24.92
HYDROGRAPH AT	3	7.	16.08	1.	0.	0.	.02		
HYDROGRAPH AT	4	5.	16.00	1.	0.	0.	.02		
2 COMBINED AT	4_3	12.	16.08	1.	0.	0.	.04		
ROUTED TO	DET4_3	0.	.00	0.	0.	0.	.04	58.21	24.42
HYDROGRAPH AT	6	16.	16.25	3.	1.	1.	.06		
ROUTED TO	DET_6	9.	16.58	3.	1.	1.	.06	63.66	16.58
HYDROGRAPH AT	5	7.	16.08	1.	0.	0.	.02		
HYDROGRAPH AT	7	5.	16.08	1.	0.	0.	.02		
HYDROGRAPH AT	8	4.	16.08	0.	0.	0.	.01		
4 COMBINED AT	COMBINE	20.	16.08	5.	1.	1.	.11		
ROUTED TO	DETAIN	0.	.00	0.	0.	0.	.11	54.55	24.92
HYDROGRAPH AT	9A	7.	16.08	1.	0.	0.	.02		
ROUTED TO	DET9A	5.	16.17	1.	0.	0.	.02	54.03	16.17
HYDROGRAPH AT	9B	9.	16.08	1.	0.	0.	.03		
ROUTED TO	DET	4.	16.25	1.	0.	0.	.03	56.02	16.25
HYDROGRAPH AT	9	11.	16.17	2.	0.	0.	.04		
3 COMBINED AT	CON_2	20.	16.17	3.	1.	1.	.09		
ROUTED TO	PUMP	2.	15.67	2.	1.	1.	.09	53.12	18.83
ROUTED TO	RT_23	2.	16.33	2.	1.	1.	.09	1.68	16.92

RUNOFF SUMMARY

FLOW IN CUBIC FEET PER SECOND

TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD 6-HOUR	24-HOUR	72-HOUR	BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
HYDROGRAPH AT	1A	1.	16.08	0.	0.	0.	.01		
ROUTED TO	RT1A	0.	16.92	0.	0.	0.	.01	1.06	16.92
HYDROGRAPH AT	1	7.	16.25	2.	0.	0.	.09		
2 COMBINED AT	1_1A	7.	16.33	2.	1.	0.	.10		
HYDROGRAPH AT	2	15.	16.08	2.	1.	1.	.06		
2 COMBINED AT	2_1_1A	20.	16.17	4.	1.	1.	.16		
ROUTED TO	DET_2	0.	.00	0.	0.	0.	.16	66.37	24.92
HYDROGRAPH AT	3	7.	16.08	1.	0.	0.	.02		
HYDROGRAPH AT	4	5.	16.00	1.	0.	0.	.02		
2 COMBINED AT	4_3	12.	16.08	1.	0.	0.	.04		
ROUTED TO	DET4_3	0.	.00	0.	0.	0.	.04	58.21	24.42
HYDROGRAPH AT	6	16.	16.25	3.	1.	1.	.06		
ROUTED TO	DET_6	9.	16.58	3.	1.	1.	.06	63.66	16.58
HYDROGRAPH AT	5	7.	16.08	1.	0.	0.	.02		
HYDROGRAPH AT	7	5.	16.08	1.	0.	0.	.02		
HYDROGRAPH AT	8	4.	16.08	0.	0.	0.	.01		
4 COMBINED AT	COMBINE	20.	16.08	5.	1.	1.	.11		
ROUTED TO	DETAIN	0.	.00	0.	0.	0.	.11	54.55	24.92
HYDROGRAPH AT	9A	7.	16.08	1.	0.	0.	.02		
ROUTED TO	DET9A	5.	16.17	1.	0.	0.	.02	54.03	16.17
HYDROGRAPH AT	9B	9.	16.08	1.	0.	0.	.03		
ROUTED TO	DET	4.	16.25	1.	0.	0.	.03	56.02	16.25
HYDROGRAPH AT	9	11.	16.17	2.	0.	0.	.04		
3 COMBINED AT	CON_2	20.	16.17	3.	1.	1.	.09		
ROUTED TO	PUMP	2.	15.67	2.	1.	1.	.09	53.12	18.83
ROUTED TO	RT_23	2.	16.33	2.	1.	1.	.09	1.68	16.92

HYDROGRAPH AT	10_CON3	11.	16.00	1.	0.	0.	.02		
2 COMBINED AT	MAIN_3	12.	16.00	3.	1.	1.	.11		
ROUTED TO	RT_34	10.	16.08	3.	1.	1.	.11	2.45	16.08
HYDROGRAPH AT	11_CON4	16.	16.08	2.	1.	1.	.04		
2 COMBINED AT	MAIN_END	26.	16.08	4.	1.	1.	.15		

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

APPENDIX C

Improved (Interim) Condition HEC-1 Hydrologic Analysis for the 5-year Storm Event

```
*****************************************
*                                       *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
*               JUN  1998               *
*            VERSION 4.1                *
*                                       *
*  RUN DATE   18NOV03  TIME  09:10:04   *
*                                       *
*****************************************
```

```
*************************************
*                                   *
*   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

ENCINITAS
14413
IMPROVED (INTERIM) 5-YR
11-18-03

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

              *DIAGRAM
    1         ID   **********************************************************
    2         ID   ENCINITAS COAST HWY 101
    3         ID   J-14413
    4         ID   SEPT 25, 2003
    5         ID   MODIFIED EXISTING RUN TO MODEL PROPOSED DETENTION OF BASINS
    6         ID   1A, 1B, 1, 2, 3, 4, 5, 6, AND 8
    7         ID   DETENTION CARDS SA/SV, SQ, SE OBTAINED FROM FN: DSI_5R.HC1
    8         ID   **********************************************************
    9         ID   ENCINITAS- COAST HIGHWAY 101
   10         ID   JOB # 14413
   11         ID   09-12-03
   12         ID   MODIFIED PUMP Q TO 1.7 CFS, AND ROUTING OF BASINS 9A, 9B, AND 9
   13         ID   FROM PUMP STATION THROUGH 10" LATERAL, CONFLUENCING
   14         ID   WITH MAIN LINE AT AT CONNECTION 3 INSTEAD OF CONNECTION 2
   15         ID   ALSO CHANGED ROUTING THROUGH MAIN LINE FROM LINE G TO CONNECTION
   16         ID   2, TO LINE G TO CONNECTION 3
   17         ID   **********************************************************
   18         ID   ENCINITAS- COAST HIGHWAY 101
   19         ID   JOB # 14413
   20         ID   09-04-03
   21         ID   MODIFIED CURVE NUMBER AND REMOVED % IMPERVIOUS
   22         ID   **********************************************************
   23         ID   ENCINITAS- COAST HIGHWAY 101
   24         ID   JOB # 14413
   25         ID   06-03-03
   26         ID   POST-IMPROVEMENT (EXISTING) CONDITION       FN: 101EX_5.HC1
   27         ID   5-YEAR, 24-HR STORM EVENT
   28         ID   LAG CALCULATION ARE BASED OFF OF NRCS METHOD
   29         ID   AND ARE A FUNCTION OF RUNOFF COEF. AND VELOCITY
   30         ID   NESTED STORM PER COUNTY OF SAN DIEGO HYDROLOGY MANUAL
   31         ID   COPYRIGHT 2003 RICK ENGINEERING COMPANY
   32         ID   6HR RAINFALL IS  1.6  INCHES
   33         ID   24HR RAINFALL IS  2.5  INCHES
   34         ID   TOTAL BASIN AREA IS  .5  SQUARE MILES
*** FREE ***
   35         IT       5 01JAN90    1200     300
   36         IO       1

   37         KK      1A
   38         KO       0       0       0       0      21
   39         IN       5 01JAN90    1200     300
   40         PI  .00279   .0028  .00281  .00283  .00283  .00285  .00285  .00287  .00287  .00289
   41         PI   .0029  .00291  .00292  .00293  .00294  .00295  .00296  .00298  .00299    .003
   42         PI  .00301  .00303  .00303  .00305  .00306  .00307  .00308   .0031  .00311  .00313
   43         PI  .00314  .00315  .00316  .00318  .00319  .00321  .00322  .00324  .00325   .0032
   44         PI  .00327  .00329   .0033  .00332  .00333  .00336  .00337  .00339   .0034  .00342
   45         PI  .00343  .00345  .00346  .00349   .0035  .00352  .00353  .00356  .00357  .00359
   46         PI  .00361  .00363  .00364  .00367  .00368  .00371  .00372  .00375  .00376   .0037
   47         PI  .00381  .00384  .00385  .00388  .00389  .00392  .00394  .00397  .00399   .0040
   48         PI  .00404  .00407  .00409  .00412  .00414  .00417  .00419  .00423  .00425   .0042
   49         PI   .0043  .00434  .00436   .0044  .00442  .00446  .00449  .00453  .00455   .0046
   50         PI  .00462  .00467  .00469  .00474  .00476  .00481  .00484  .00489  .00492   .0049
   51         PI    .005  .00506  .00508  .00514  .00517  .00524  .00527  .00533  .00537  .00543
   52         PI  .00547  .00554  .00557  .00565  .00569  .00577  .00581  .00589  .00593   .0060
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LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

  53      PI  .00606  .00615   .0062   .0063  .00635  .00645   .0065  .00661  .00667  .00678
  54      PI  .00684  .00697  .00703  .00795  .00802  .00817  .00825  .00841  .00849   .0086
  55      PI  .00876  .00895  .00904  .00925  .00935  .00958  .00969  .00994  .01007   .0103
  56      PI  .01048  .01078  .01094  .01128  .01145  .01183  .01203   .0125  .01273  .01323
  57      PI  .01349  .01407  .01439  .01507  .01545  .01628  .01674  .01777  .01835   .0196
  58      PI  .02043   .0222  .02325  .02612  .02766  .03159  .03419  .04135   .0471  .06916
  59      PI  .09744  .34926  .05547  .03744  .02945  .02443  .02127  .01898  .01724   .0158
  60      PI  .01472  .01378  .01297  .01225  .01164   .0111  .01063   .0102  .00982  .00946
  61      PI  .00914  .00885  .00858  .00833   .0081   .0071  .00691  .00673  .00656   .0064
  62      PI  .00625  .00611  .00597  .00585  .00573  .00561   .0055   .0054   .0053   .0052
  63      PI  .00511  .00503  .00494  .00486  .00479  .00471  .00464  .00457  .00451   .0044
  64      PI  .00438  .00432  .00427  .00421  .00416   .0041  .00405   .004  .00396  .00391
  65      PI  .00386  .00382  .00378  .00374   .0037  .00366  .00362  .00358  .00355  .00351
  66      PI  .00348  .00344  .00341  .00338  .00335  .00331  .00328  .00326  .00323   .0032
  67      PI  .00317  .00314  .00312  .00309  .00307  .00304  .00302  .00299  .00297   .0029
  68      PI  .00292   .0029  .00288  .00286  .00284  .00282   .0028       0       0       0
  69      PI       0       0       0       0       0       0       0       0       0       0
  70      PI       0       0
  71      BA    0.01
  72      LS       0      60
  73      UD   0.139

  74      KK    RT1A
  75      KM   ROUTE RUNOFF FROM BASIN 1A THROUGH BASIN 1 (ALONG HW 101)
  76      RS       3    STOR      -1
  77      RC    0.02    0.02    0.02    3225  0.0068
  78      RX       0       5      10      15      20      25      30      35
  79      RY       2       2     1.5       1       1     1.5       2       2

  80      KK      1B
  81      BA    0.03
  82      LS       0      65
  83      UD   0.163

  84      KK    RT1B
  85      KM   ROUTE RUNOFF FROM BASIN 1B THROUGH BASIN 1 (ALONG ORPHEUS ST.)
  86      RS       1    STOR      -1
  87      RC    0.02    0.02    0.02    1125
  88      RX       0       5      10      15      20      25      30      35
  89      RY       2       2     1.5       1       1     1.5       2       2

  90      KK    RT1B
  91      KM   ROUTE RUNOFF FROM BASIN 1B THROUGH BASIN 1 (ALONG HW 101)
  92      RS       1    STOR      -1
  93      RC    0.02    0.02    0.02    1250
  94      RX       0       5      10      15      20      25      30      35
  95      RY       2       2     1.5       1       1     1.5       2       2

  96      KK       1
  97      BA    0.09
  98      LS       0      61
  99      UD   0.282
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LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

100       KK    1_1A
101       KM    COMBINE BASINS 1A, 1B AND BASIN 1
102       HC       3

103       KK     RT1
104       KM    ROUTE FROM RUNOFF FROM BASIN 1 AND 1A THROUGH BASIN 2 (ALONG HW 101)
105       RS       1    STOR      -1
106       RC    0.02    0.02    0.02     500
107       RX       0       5      10      15      20      25      30      35
108       RY       2       2     1.5       1       1     1.5       2       2

109       KK       2
110       BA    0.06
111       LS       0      67
112       UD   0.145

113       KK  2_1_1A
114       KM    COMBINE BASIN 1A AND BASIN 1 WITH BASIN 2
115       HC       2

116       KK    DET_2
117       KM    DETAIN BASINS 1A, 1 AND 2 IN THE SUMP NEAR UNION STREET & 101
118       RS       1    STOR      -1
119       SA       0   0.092    3.71    8.29    8.29
120       SQ       0       0       0       0      20
121       SE      63      64      66      68    68.1
          * KK RT1
          * KM ROUTE FROM RUNOFF FROM BASIN 1, 1A, AND 2 THROUGH BASIN 6 (ALONG HW 101)
          * RS 1 STOR -1
          * RC 0.02 0.02 0.02 ____ _____
          * RX 0 5 10 15 20 25 30 35
          * RY 2 2 1.5 1 1 1.5 2 2

122       KK 3_LINEB
123       KM    BASIN 3 DRAINING TO LINE B
124       BA    0.02
125       LS       0      69
126       UD   0.093

127       KK 4_LINEC
128       KM    BASIN 4 DRAINING TO LINE C
129       BA    0.02
130       LS       0      64
131       UD   0.072

132       KK     4_3
133       KM    COMBINE BASIN 3 WITH BASIN 4
134       HC       2
```

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

  135     KK  DET4_3
  136     KM   DETAIN BASINS 3 AND 4 IN THE SUMP AT CADMUS AND BASIL
  137     KO       0       0       0       0      21
  138     RS       1    STOR      -1
  139     SA       0   0.666    2.50    4.59
  140     SE      55      56      58      60
  141     SQ       0       2
  142     SE      55   56.05

  143     KK   RT_C1
  144     KO       0       0       0       0      21
  145     KM   ROUTE THROUGH MAIN LINE FROM LINE C TO CONNECTION 1
  146     KM   THE CHANNEL GEOMETRY IS REPRESENTATIVE OF AN 1.0'X 1.0' BOX, WHICH HAS
  147     KM   THE SAME X-SECTIONAL AREA AS A 24" PIPE
  148     RS       1    STOR      -1
  149     RC    .013    .013    .013    1250  0.0036
  150     RX       1       2       5       5     6.8     6.8       7       8
  151     RY     2.8     2.8     2.8       1       1     2.8     2.8     2.8

  152     KK       6
  153     BA    0.06
  154     LS       0      73
  155     UD   0.323

  156     KK   DET_6
  157     KO       0       0       0       0      21
  158     KM   DETAIN ON THE EAST SIDE OF TRACKS AT THE SUMP NEAR THE MOBILE HOME PARK
  159     RS       1    STOR      -1
  160     SA       0   0.032   0.551   1.561    3.42
  161     SE    61.5      62      64      66      68
  162     SQ       0     7.4
  163     SE    61.5   63.91

  164     KK  MAIN_1
  165     KM   Q IN MAIN LINE ATER CONFLUENCE WITH CONNECTION 1
  166     HC       2

  167     KK   RT_1G
  168     KO       0       0       0       0      21
  169     KM   ROUTE THROUGH MAIN LINE FROM CONNECTION 1 TO LINE G
  170     KM   THE CHANNEL GEOMETRY IS REPRESENTATIVE OF AN 1.8'X 1.8' BOX, WHICH HAS
  171     KM   THE SAME X-SECTIONAL AREA AS A 24" PIPE
  172     RS       1    STOR      -1
  173     RC    .013    .013    .013    1000  0.0126
  174     RX       1       2       5       5     6.8     6.8       7       8
  175     RY     2.8     2.8     2.8       1       1     2.8     2.8     2.8

  176     KK 5_LINED
  177     KM   BASIN 5 DRAINING TO LINE D
  178     BA    0.02
  179     LS       0      68
  180     UD   0.004
```

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

  101     KK7_LINEE&F
  102     KM   BASIN 7 DRAINING TO LINE E AND LINE F
  103     BA    0.02
  104     LS       0      66
  105     UD   0.129

  106     KK 8_LINEG
  107     KM   BASIN 8 DRAINING TO LINE G
  108     BA    0.01
  109     LS       0      71
  110     UD   0.128

  111     KK COMBINE
  112     KM   COMBINE BASINS 5,7,8
  113     HC       3

  114     KK   D_578
  115     KM   DETAIN BASINS 5,7,8, AND OUTFLOW FROM EAST SIDE OF TRACKS
  116     KO       2       2       0       0      21
  117     RS       1    STOR      -1
  118     SA       0   0.296    2.54    8.28
  119     SE      51      52      54      56
  120     SQ       0       3
  121     SE      51    52.5

  122     KK  MAIN_G
  123     KM   Q IN MAIN LINE AFTER CONFLUENCE WITH DETAINED FLOW FROM BASINS
  124     KM   5, 7, AND 8
  125     HC       2

  126     KK   RT_G3
  127     KO       0       0       0       0      21
  128     KM   ROUTE THROUGH MAIN LINE FROM LINE G TO CONNECTION 3
  129     KM   THE RD CARD NOT USED FOR THE ROUTING ANALYSIS
  130     RS       1    STOR      -1
          * RD 4000 .0025 .013 0 CIRC 2
  131     RC    .013    .013    .013    1575  0.0025
  132     RX       1       2       5       5     7.5     7.5       8       9
  133     RY   121.8   121.8   121.8     120     120   121.8   121.8   121.8

  134     KK      9A
  135     KM   BASIN 9A ULTIMATELY DRAINING TO CONNECTION 2
  136     BA    0.02
  137     LS       0      69
  138     UD   0.120

  139     KK   DET9A
  140     KM   DETAIN BASIN 9A IN THE SUMP
  141     RS       1    STOR      -1
  142     SA       0     1.6     1.6
  143     SQ       0       0      20
  144     SE      53      54    54.1
```

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

 225      KK      9B
 226      KM   BASIN 9B ULTIMATELY DRAINING TO CONNECTION 2
 227      BA    0.03
 228      LS       0      68
 229      UD   0.123

 230      KK     DET9B
 231      KM   DETAIN BASIN 9B IN THE SUMP
 232      RS       1    STOR      -1
 233      SA       0     1.3     5.7     5.7
 234      SQ       0       0       0      20
 235      SE      53      54      56    56.1

 236      KK       9
 237      KM   BASIN 9 DRAINING TO CONNECTION 2
 238      BA    0.04
 239      LS       0      69
 240      UD    0.20

 241      KK   CON_2
 242      KM   Q DRAINING TO THE PUMP AT CONNECTION 2
 243      HC       3

 244      KK    PUMP
 245      KM   DETAIN FOR PUMP STATION AT CONNECTION 2
 246      KM   PUMP CAPACITY IS 1.7 CFS
 247      KM   ASSUME PUMP TURNS ON IMMEDIATELY (EL 50.1)
 248      RS       1    STOR      -1
 249      SA       0    .001    .064   1.507    2.88    2.88    4.66
 250      SQ       0     1.7     1.7     1.7     1.7     1.7     1.7
 251      SE      50    50.1      52      53      54    54.1      56

 252      KK RT_P_23
 253      KO       0       0       0       0      21
 254      KM   ROUTE BASINS 9A, 9B AND 9 FROM PUMP AT CONNECTION 2 TO CONNECTION 3
 255      KM   VIA 10" LATERAL
 256      KM   THE CHANNEL GEOMETRY IS REPRESENTATIVE OF A 0.74' BY 0.74' BOX, WHICH HAS
 257      KM   THE SAME CROSS-SECTIONAL AREA OF A 10" PIPE
 258      RS       1    STOR      -1
 259      RC   0.013   0.013   0.013    2425  0.0025
 260      RX       1       2       5       5    6.74    6.74       8       9
 261      RY  121.74  121.74  121.74     121     121  121.74  121.74  121.74

 262      KK 10_CON3
 263      KM   BASIN 10 DRAINING TO CONNECTION 3
 264      BA    0.02
 265      LS       0      71
 266      UD   0.061
```

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

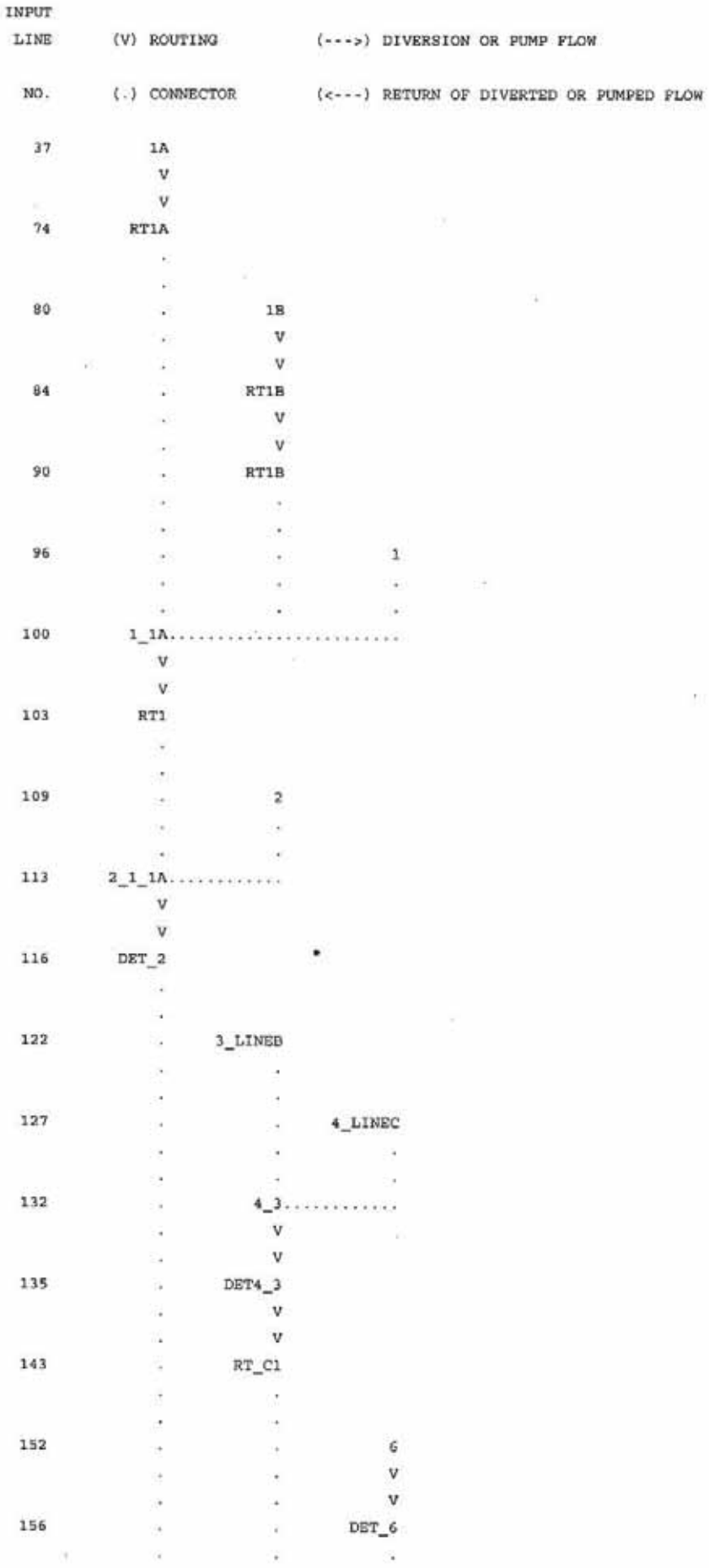
  267     KK  MAIN_3
  268     KO       0       0       0       0      21
  269     KM   Q IN MAIN LINE AFTER CONFLUENCE WITH Q FROM PUMP STATION (CONN. 2)
  270     KM   AT CONNECTION 3 AND BASIN 10 DRAINING TO CONN. 3
  271     HC       3

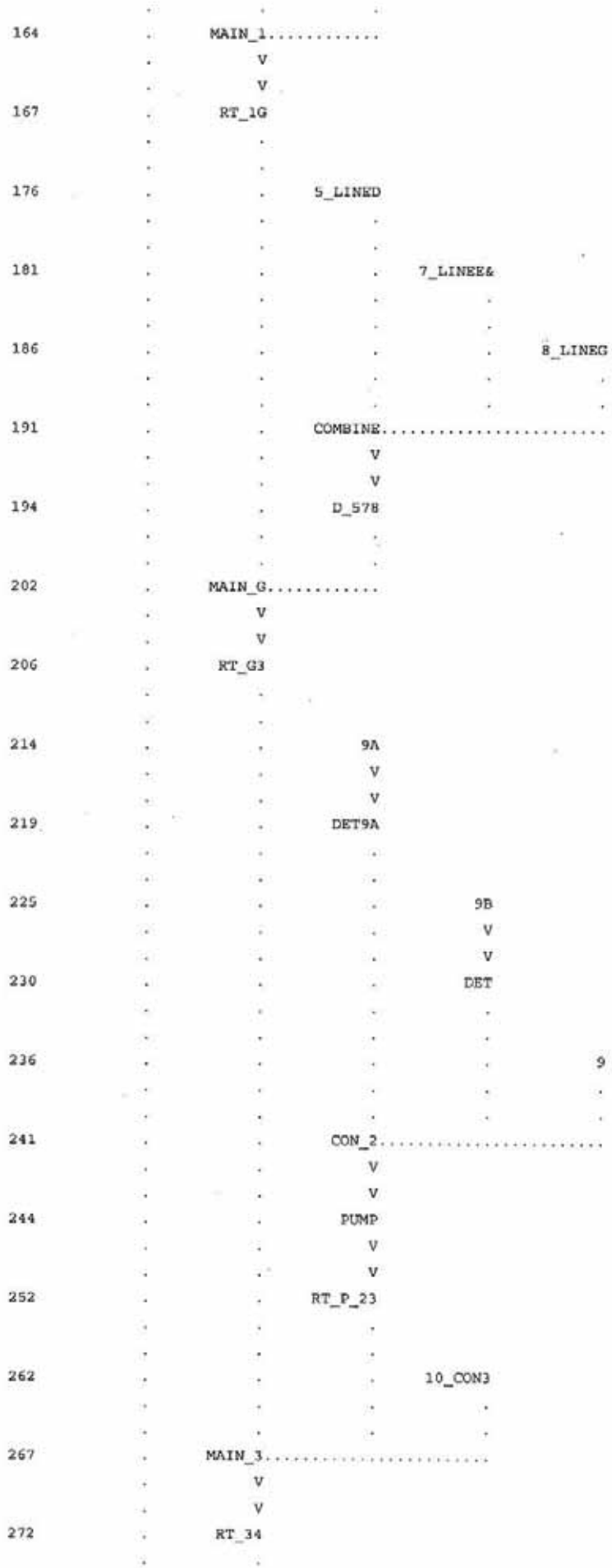
  272     KK   RT_34
  273     KO       0       0       0       0      21
  274     KM   ROUTE FROM CONNECTION 3 TO CONNECTION 4
  275     KM   THE RD CARD WAS NOT USED FOR THE ROUTING ANALYSIS
  276     RS       1    STOR      -1
          * RD 1225 .0025 .013 0 CIRC 2
  277     RC    .013    .013    .013    1225  0.0025
  278     RX       1       2       5       5     7.2     7.2       8       9
  279     RY   121.8   121.8   121.8     120     120   121.8   121.8   121.8

  280     KK 11_CON4
  281     KM   BASIN 11 DRAINING TO CONNECTION 4
  282     BA    0.04
  283     LS       0      71
  284     UD   0.133

  285     KKMAIN_4END
  286     KO       0       0       0       0      21
  287     KM   Q IN MAIN LINE AFTER CONFLUENCE WITH CONNECTION 4
  288     HC       2
  289     ZZ
```

SCHEMATIC DIAGRAM OF STREAM NETWORK




MAIN_1
RT_1G
5_LINED
7_LINEE&
8_LINEG
COMBINE
D_578
MAIN_G
RT_G3
9A
DET9A
9B
DET
9
CON_2
PUMP
RT_P_23
10_CON3
MAIN_3
RT_34

```
                .           .
  280           .           .     11_CON4
                .           .           .
                .           .           .
  285           .     MAIN_4EN.....................
```

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

```
*****************************************
*                                       *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
*               JUN   1998              *
*            VERSION 4.1                *
*                                       *
*  RUN DATE   18NOV03   TIME  09:10:04  *
*                                       *
*****************************************
```


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


```
     ************************************************************
     ENCINITAS COAST HWY 101
     J-14413
     SEPT 25, 2003
     MODIFIED EXISTING RUN TO MODEL PROPOSED DETENTION OF BASINS
     1A, 1B, 1, 2, 3, 4, 5, 6, AND 8
     DETENTION CARDS SA/SV, SQ, SE OBTAINED FROM FN: DSI_SR.HC1
     ************************************************************
     ENCINITAS- COAST HIGHWAY 101
     JOB # 14413
     09-12-03
     MODIFIED PUMP Q TO 1.7 CFS, AND ROUTING OF BASINS 9A, 9B, AND 9
     FROM PUMP STATION THROUGH 10" LATERAL, CONFLUENCING
     WITH MAIN LINE AT AT CONNECTION 3 INSTEAD OF CONNECTION 2
     ALSO CHANGED ROUTING THROUGH MAIN LINE FROM LINE G TO CONNECTION
     2, TO LINE G TO CONNECTION 3
     ************************************************************
     ENCINITAS- COAST HIGHWAY 101
     JOB # 14413
     09-04-03
     MODIFIED CURVE NUMBER AND REMOVED % IMPERVIOUS
     ************************************************************
     ENCINITAS- COAST HIGHWAY 101
     JOB # 14413
     06-03-03
     POST-IMPROVEMENT (EXISTING) CONDITION       FN: 101EX_5.HC1
     5-YEAR, 24-HR STORM EVENT
     LAG CALCULATION ARE BASED OFF OF NRCS METHOD
     AND ARE A FUNCTION OF RUNOFF COEF. AND VELOCITY
     NESTED STORM PER COUNTY OF SAN DIEGO HYDROLOGY MANUAL
     COPYRIGHT 2003 RICK ENGINEERING COMPANY
     6HR RAINFALL IS  1.6  INCHES
     24HR RAINFALL IS  2.5  INCHES
     TOTAL BASIN AREA IS  .5  SQUARE MILES

36 IO          OUTPUT CONTROL VARIABLES
                    IPRNT          1  PRINT CONTROL
                    IPLOT          0  PLOT CONTROL
                    QSCAL         0.  HYDROGRAPH PLOT SCALE

   IT          HYDROGRAPH TIME DATA
                    NMIN           5  MINUTES IN COMPUTATION INTERVAL
                   IDATE      1JAN90  STARTING DATE
                   ITIME        1200  STARTING TIME
                      NQ         300  NUMBER OF HYDROGRAPH ORDINATES
                  NDDATE      2JAN90  ENDING DATE
```

```
                NDTIME        1255  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


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


          **************
          *            *
37 KK     *        1A  *
          *            *
          **************

38 KO          OUTPUT CONTROL VARIABLES
                    IPRNT           1  PRINT CONTROL
                    IPLOT           0  PLOT CONTROL
                    QSCAL          0.  HYDROGRAPH PLOT SCALE
                    IPNCH           0  PUNCH COMPUTED HYDROGRAPH
                     IOUT          21  SAVE HYDROGRAPH ON THIS UNIT
                    ISAV1           1  FIRST ORDINATE PUNCHED OR SAVED
                    ISAV2         300  LAST ORDINATE PUNCHED OR SAVED
                   TIMINT        .083  TIME INTERVAL IN HOURS


39 IN          TIME DATA FOR INPUT TIME SERIES
                    JXMIN           5  TIME INTERVAL IN MINUTES
                   JXDATE      1JAN90  STARTING DATE
                   JXTIME        1200  STARTING TIME

         SUBBASIN RUNOFF DATA

71 BA          SUBBASIN CHARACTERISTICS
                    TAREA         .01  SUBBASIN AREA

               PRECIPITATION DATA

40 PB               STORM        2.49  BASIN TOTAL PRECIPITATION

40 PI            INCREMENTAL PRECIPITATION PATTERN
                   .00    .00    .00    .00    .00    .00    .00    .00    .00    .00
                   .00    .00    .00    .00    .00    .00    .00    .00    .00    .00
                   .00    .00    .00    .00    .00    .00    .00    .00    .00    .00
                   .00    .00    .00    .00    .00    .00    .00    .00    .00    .00
                   .00    .00    .00    .00    .00    .00    .00    .00    .00    .00
                   .00    .00    .00    .00    .00    .00    .00    .00    .00    .00
                   .00    .00    .00    .00    .00    .00    .00    .00    .00    .00
                   .00    .00    .00    .00    .00    .00    .00    .00    .00    .00
```

.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.02	.02	.02	.02	.02	.02	.02
.02	.02	.02	.03	.03	.03	.03	.04	.05	.07
.10	.35	.06	.04	.03	.02	.02	.02	.02	.02
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00			

72 LS SCS LOSS RATE

STRTL	1.33	INITIAL ABSTRACTION
CRVNBR	60.00	CURVE NUMBER
RTIMP	.00	PERCENT IMPERVIOUS AREA

73 UD SCS DIMENSIONLESS UNITGRAPH

TLAG	.14	LAG

***

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

UNIT HYDROGRAPH

10 END-OF-PERIOD ORDINATES

11.	27.	21.	10.	5.	2.	1.	0.	0.	0.

****

HYDROGRAPH AT STATION 1A

****

DA MON HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	DA MON HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1 JAN 1200	1	.00	.00	.00	0.	2 JAN 0030	151	.01	.01	.00	0.
1 JAN 1205	2	.00	.00	.00	0.	2 JAN 0035	152	.01	.01	.00	0.
1 JAN 1210	3	.00	.00	.00	0.	2 JAN 0040	153	.01	.01	.00	0.
1 JAN 1215	4	.00	.00	.00	0.	2 JAN 0045	154	.01	.01	.00	0.
1 JAN 1220	5	.00	.00	.00	0.	2 JAN 0050	155	.01	.01	.00	0.
1 JAN 1225	6	.00	.00	.00	0.	2 JAN 0055	156	.01	.01	.00	0.
1 JAN 1230	7	.00	.00	.00	0.	2 JAN 0100	157	.01	.01	.00	0.
1 JAN 1235	8	.00	.00	.00	0.	2 JAN 0105	158	.01	.01	.00	0.
1 JAN 1240	9	.00	.00	.00	0.	2 JAN 0110	159	.01	.01	.00	0.
1 JAN 1245	10	.00	.00	.00	0.	2 JAN 0115	160	.01	.01	.00	0.
1 JAN 1250	11	.00	.00	.00	0.	2 JAN 0120	161	.01	.01	.00	0.
1 JAN 1255	12	.00	.00	.00	0.	2 JAN 0125	162	.01	.01	.00	0.
1 JAN 1300	13	.00	.00	.00	0.	2 JAN 0130	163	.01	.01	.00	0.
1 JAN 1305	14	.00	.00	.00	0.	2 JAN 0135	164	.01	.01	.00	0.

1	JAN	1310	15	.00	.00	.00	0.	*	2	JAN	0140	165	.01	.01	.00	0.
1	JAN	1315	16	.00	.00	.00	0.	*	2	JAN	0145	166	.01	.01	.00	0.
1	JAN	1320	17	.00	.00	.00	0.	*	2	JAN	0150	167	.01	.01	.00	0.
1	JAN	1325	18	.00	.00	.00	0.	*	2	JAN	0155	168	.01	.01	.00	0.
1	JAN	1330	19	.00	.00	.00	0.	*	2	JAN	0200	169	.01	.01	.00	0.
1	JAN	1335	20	.00	.00	.00	0.	*	2	JAN	0205	170	.01	.01	.00	0.
1	JAN	1340	21	.00	.00	.00	0.	*	2	JAN	0210	171	.01	.01	.00	0.
1	JAN	1345	22	.00	.00	.00	0.	*	2	JAN	0215	172	.01	.01	.00	0.
1	JAN	1350	23	.00	.00	.00	0.	*	2	JAN	0220	173	.01	.01	.00	0.
1	JAN	1355	24	.00	.00	.00	0.	*	2	JAN	0225	174	.01	.01	.00	0.
1	JAN	1400	25	.00	.00	.00	0.	*	2	JAN	0230	175	.02	.02	.00	0.
1	JAN	1405	26	.00	.00	.00	0.	*	2	JAN	0235	176	.02	.02	.00	0.
1	JAN	1410	27	.00	.00	.00	0.	*	2	JAN	0240	177	.02	.02	.00	0.
1	JAN	1415	28	.00	.00	.00	0.	*	2	JAN	0245	178	.02	.02	.00	0.
1	JAN	1420	29	.00	.00	.00	0.	*	2	JAN	0250	179	.02	.02	.00	0.
1	JAN	1425	30	.00	.00	.00	0.	*	2	JAN	0255	180	.02	.02	.00	0.
1	JAN	1430	31	.00	.00	.00	0.	*	2	JAN	0300	181	.02	.02	.00	0.
1	JAN	1435	32	.00	.00	.00	0.	*	2	JAN	0305	182	.02	.02	.00	0.
1	JAN	1440	33	.00	.00	.00	0.	*	2	JAN	0310	183	.02	.02	.00	0.
1	JAN	1445	34	.00	.00	.00	0.	*	2	JAN	0315	184	.02	.02	.00	0.
1	JAN	1450	35	.00	.00	.00	0.	*	2	JAN	0320	185	.03	.03	.00	0.
1	JAN	1455	36	.00	.00	.00	0.	*	2	JAN	0325	186	.03	.03	.00	0.
1	JAN	1500	37	.00	.00	.00	0.	*	2	JAN	0330	187	.03	.03	.00	0.
1	JAN	1505	38	.00	.00	.00	0.	*	2	JAN	0335	188	.03	.03	.00	0.
1	JAN	1510	39	.00	.00	.00	0.	*	2	JAN	0340	189	.04	.04	.00	0.
1	JAN	1515	40	.00	.00	.00	0.	*	2	JAN	0345	190	.05	.05	.00	0.
1	JAN	1520	41	.00	.00	.00	0.	*	2	JAN	0350	191	.07	.07	.00	0.
1	JAN	1525	42	.00	.00	.00	0.	*	2	JAN	0355	192	.10	.10	.00	0.
1	JAN	1530	43	.00	.00	.00	0.	*	2	JAN	0400	193	.35	.32	.03	0.
1	JAN	1535	44	.00	.00	.00	0.	*	2	JAN	0405	194	.06	.05	.01	1.
1	JAN	1540	45	.00	.00	.00	0.	*	2	JAN	0410	195	.04	.03	.01	1.
1	JAN	1545	46	.00	.00	.00	0.	*	2	JAN	0415	196	.03	.02	.00	1.
1	JAN	1550	47	.00	.00	.00	0.	*	2	JAN	0420	197	.02	.02	.00	1.
1	JAN	1555	48	.00	.00	.00	0.	*	2	JAN	0425	198	.02	.02	.00	0.
1	JAN	1600	49	.00	.00	.00	0.	*	2	JAN	0430	199	.02	.02	.00	0.
1	JAN	1605	50	.00	.00	.00	0.	*	2	JAN	0435	200	.02	.01	.00	0.
1	JAN	1610	51	.00	.00	.00	0.	*	2	JAN	0440	201	.02	.01	.00	0.
1	JAN	1615	52	.00	.00	.00	0.	*	2	JAN	0445	202	.01	.01	.00	0.
1	JAN	1620	53	.00	.00	.00	0.	*	2	JAN	0450	203	.01	.01	.00	0.
1	JAN	1625	54	.00	.00	.00	0.	*	2	JAN	0455	204	.01	.01	.00	0.
1	JAN	1630	55	.00	.00	.00	0.	*	2	JAN	0500	205	.01	.01	.00	0.
1	JAN	1635	56	.00	.00	.00	0.	*	2	JAN	0505	206	.01	.01	.00	0.
1	JAN	1640	57	.00	.00	.00	0.	*	2	JAN	0510	207	.01	.01	.00	0.
1	JAN	1645	58	.00	.00	.00	0.	*	2	JAN	0515	208	.01	.01	.00	0.
1	JAN	1650	59	.00	.00	.00	0.	*	2	JAN	0520	209	.01	.01	.00	0.
1	JAN	1655	60	.00	.00	.00	0.	*	2	JAN	0525	210	.01	.01	.00	0.
1	JAN	1700	61	.00	.00	.00	0.	*	2	JAN	0530	211	.01	.01	.00	0.
1	JAN	1705	62	.00	.00	.00	0.	*	2	JAN	0535	212	.01	.01	.00	0.
1	JAN	1710	63	.00	.00	.00	0.	*	2	JAN	0540	213	.01	.01	.00	0.
1	JAN	1715	64	.00	.00	.00	0.	*	2	JAN	0545	214	.01	.01	.00	0.
1	JAN	1720	65	.00	.00	.00	0.	*	2	JAN	0550	215	.01	.01	.00	0.
1	JAN	1725	66	.00	.00	.00	0.	*	2	JAN	0555	216	.01	.01	.00	0.
1	JAN	1730	67	.00	.00	.00	0.	*	2	JAN	0600	217	.01	.01	.00	0.
1	JAN	1735	68	.00	.00	.00	0.	*	2	JAN	0605	218	.01	.01	.00	0.
1	JAN	1740	69	.00	.00	.00	0.	*	2	JAN	0610	219	.01	.01	.00	0.
1	JAN	1745	70	.00	.00	.00	0.	*	2	JAN	0615	220	.01	.01	.00	0.
1	JAN	1750	71	.00	.00	.00	0.	*	2	JAN	0620	221	.01	.00	.00	0.
1	JAN	1755	72	.00	.00	.00	0.	*	2	JAN	0625	222	.01	.00	.00	0.
1	JAN	1800	73	.00	.00	.00	0.	*	2	JAN	0630	223	.01	.00	.00	0.
1	JAN	1805	74	.00	.00	.00	0.	*	2	JAN	0635	224	.01	.00	.00	0.

1 JAN 1810	75	.00	.00	.00	0.	*	2 JAN 0640	225	.01	.00	.00	0.
1 JAN 1815	76	.00	.00	.00	0.	*	2 JAN 0645	226	.01	.00	.00	0.
1 JAN 1820	77	.00	.00	.00	0.	*	2 JAN 0650	227	.01	.00	.00	0.
1 JAN 1825	78	.00	.00	.00	0.	*	2 JAN 0655	228	.01	.00	.00	0.
1 JAN 1830	79	.00	.00	.00	0.	*	2 JAN 0700	229	.01	.00	.00	0.
1 JAN 1835	80	.00	.00	.00	0.	*	2 JAN 0705	230	.01	.00	.00	0.
1 JAN 1840	81	.00	.00	.00	0.	*	2 JAN 0710	231	.01	.00	.00	0.
1 JAN 1845	82	.00	.00	.00	0.	*	2 JAN 0715	232	.01	.00	.00	0.
1 JAN 1850	83	.00	.00	.00	0.	*	2 JAN 0720	233	.01	.00	.00	0.
1 JAN 1855	84	.00	.00	.00	0.	*	2 JAN 0725	234	.00	.00	.00	0.
1 JAN 1900	85	.00	.00	.00	0.	*	2 JAN 0730	235	.00	.00	.00	0.
1 JAN 1905	86	.00	.00	.00	0.	*	2 JAN 0735	236	.00	.00	.00	0.
1 JAN 1910	87	.00	.00	.00	0.	*	2 JAN 0740	237	.00	.00	.00	0.
1 JAN 1915	88	.00	.00	.00	0.	*	2 JAN 0745	238	.00	.00	.00	0.
1 JAN 1920	89	.00	.00	.00	0.	*	2 JAN 0750	239	.00	.00	.00	0.
1 JAN 1925	90	.00	.00	.00	0.	*	2 JAN 0755	240	.00	.00	.00	0.
1 JAN 1930	91	.00	.00	.00	0.	*	2 JAN 0800	241	.00	.00	.00	0.
1 JAN 1935	92	.00	.00	.00	0.	*	2 JAN 0805	242	.00	.00	.00	0.
1 JAN 1940	93	.00	.00	.00	0.	*	2 JAN 0810	243	.00	.00	.00	0.
1 JAN 1945	94	.00	.00	.00	0.	*	2 JAN 0815	244	.00	.00	.00	0.
1 JAN 1950	95	.00	.00	.00	0.	*	2 JAN 0820	245	.00	.00	.00	0.
1 JAN 1955	96	.00	.00	.00	0.	*	2 JAN 0825	246	.00	.00	.00	0.
1 JAN 2000	97	.00	.00	.00	0.	*	2 JAN 0830	247	.00	.00	.00	0.
1 JAN 2005	98	.00	.00	.00	0.	*	2 JAN 0835	248	.00	.00	.00	0.
1 JAN 2010	99	.00	.00	.00	0.	*	2 JAN 0840	249	.00	.00	.00	0.
1 JAN 2015	100	.00	.00	.00	0.	*	2 JAN 0845	250	.00	.00	.00	0.
1 JAN 2020	101	.00	.00	.00	0.	*	2 JAN 0850	251	.00	.00	.00	0.
1 JAN 2025	102	.00	.00	.00	0.	*	2 JAN 0855	252	.00	.00	.00	0.
1 JAN 2030	103	.00	.00	.00	0.	*	2 JAN 0900	253	.00	.00	.00	0.
1 JAN 2035	104	.00	.00	.00	0.	*	2 JAN 0905	254	.00	.00	.00	0.
1 JAN 2040	105	.00	.00	.00	0.	*	2 JAN 0910	255	.00	.00	.00	0.
1 JAN 2045	106	.00	.00	.00	0.	*	2 JAN 0915	256	.00	.00	.00	0.
1 JAN 2050	107	.00	.00	.00	0.	*	2 JAN 0920	257	.00	.00	.00	0.
1 JAN 2055	108	.00	.00	.00	0.	*	2 JAN 0925	258	.00	.00	.00	0.
1 JAN 2100	109	.00	.00	.00	0.	*	2 JAN 0930	259	.00	.00	.00	0.
1 JAN 2105	110	.00	.00	.00	0.	*	2 JAN 0935	260	.00	.00	.00	0.
1 JAN 2110	111	.00	.00	.00	0.	*	2 JAN 0940	261	.00	.00	.00	0.
1 JAN 2115	112	.00	.00	.00	0.	*	2 JAN 0945	262	.00	.00	.00	0.
1 JAN 2120	113	.01	.01	.00	0.	*	2 JAN 0950	263	.00	.00	.00	0.
1 JAN 2125	114	.01	.01	.00	0.	*	2 JAN 0955	264	.00	.00	.00	0.
1 JAN 2130	115	.01	.01	.00	0.	*	2 JAN 1000	265	.00	.00	.00	0.
1 JAN 2135	116	.01	.01	.00	0.	*	2 JAN 1005	266	.00	.00	.00	0.
1 JAN 2140	117	.01	.01	.00	0.	*	2 JAN 1010	267	.00	.00	.00	0.
1 JAN 2145	118	.01	.01	.00	0.	*	2 JAN 1015	268	.00	.00	.00	0.
1 JAN 2150	119	.01	.01	.00	0.	*	2 JAN 1020	269	.00	.00	.00	0.
1 JAN 2155	120	.01	.01	.00	0.	*	2 JAN 1025	270	.00	.00	.00	0.
1 JAN 2200	121	.01	.01	.00	0.	*	2 JAN 1030	271	.00	.00	.00	0.
1 JAN 2205	122	.01	.01	.00	0.	*	2 JAN 1035	272	.00	.00	.00	0.
1 JAN 2210	123	.01	.01	.00	0.	*	2 JAN 1040	273	.00	.00	.00	0.
1 JAN 2215	124	.01	.01	.00	0.	*	2 JAN 1045	274	.00	.00	.00	0.
1 JAN 2220	125	.01	.01	.00	0.	*	2 JAN 1050	275	.00	.00	.00	0.
1 JAN 2225	126	.01	.01	.00	0.	*	2 JAN 1055	276	.00	.00	.00	0.
1 JAN 2230	127	.01	.01	.00	0.	*	2 JAN 1100	277	.00	.00	.00	0.
1 JAN 2235	128	.01	.01	.00	0.	*	2 JAN 1105	278	.00	.00	.00	0.
1 JAN 2240	129	.01	.01	.00	0.	*	2 JAN 1110	279	.00	.00	.00	0.
1 JAN 2245	130	.01	.01	.00	0.	*	2 JAN 1115	280	.00	.00	.00	0.
1 JAN 2250	131	.01	.01	.00	0.	*	2 JAN 1120	281	.00	.00	.00	0.
1 JAN 2255	132	.01	.01	.00	0.	*	2 JAN 1125	282	.00	.00	.00	0.
1 JAN 2300	133	.01	.01	.00	0.	*	2 JAN 1130	283	.00	.00	.00	0.
1 JAN 2305	134	.01	.01	.00	0.	*	2 JAN 1135	284	.00	.00	.00	0.

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1 JAN 2310  135    .01    .01    .00        0.      *      2 JAN 1140  285    .00    .00    .00        0.
1 JAN 2315  136    .01    .01    .00        0.      *      2 JAN 1145  286    .00    .00    .00        0.
1 JAN 2320  137    .01    .01    .00        0.      *      2 JAN 1150  287    .00    .00    .00        0.
1 JAN 2325  138    .01    .01    .00        0.      *      2 JAN 1155  288    .00    .00    .00        0.
1 JAN 2330  139    .01    .01    .00        0.      *      2 JAN 1200  289    .00    .00    .00        0.
1 JAN 2335  140    .01    .01    .00        0.      *      2 JAN 1205  290    .00    .00    .00        0.
1 JAN 2340  141    .01    .01    .00        0.      *      2 JAN 1210  291    .00    .00    .00        0.
1 JAN 2345  142    .01    .01    .00        0.      *      2 JAN 1215  292    .00    .00    .00        0.
1 JAN 2350  143    .01    .01    .00        0.      *      2 JAN 1220  293    .00    .00    .00        0.
1 JAN 2355  144    .01    .01    .00        0.      *      2 JAN 1225  294    .00    .00    .00        0.
2 JAN 0000  145    .01    .01    .00        0.      *      2 JAN 1230  295    .00    .00    .00        0.
2 JAN 0005  146    .01    .01    .00        0.      *      2 JAN 1235  296    .00    .00    .00        0.
2 JAN 0010  147    .01    .01    .00        0.      *      2 JAN 1240  297    .00    .00    .00        0.
2 JAN 0015  148    .01    .01    .00        0.      *      2 JAN 1245  298    .00    .00    .00        0.
2 JAN 0020  149    .01    .01    .00        0.      *      2 JAN 1250  299    .00    .00    .00        0.
2 JAN 0025  150    .01    .01    .00        0.      *      2 JAN 1255  300    .00    .00    .00        0.
                                                    *
*****************************************************************************************************************

  TOTAL RAINFALL =    2.49, TOTAL LOSS =    2.32, TOTAL EXCESS =     .17

PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
  (CFS)       (HR)                  6-HR       24-HR       72-HR     24.92-HR
     1.     16.08       (CFS)        0.          0.          0.           0.
                      (INCHES)      .150        .172        .172         .172
                       (AC-FT)        0.          0.          0.           0.

                      CUMULATIVE AREA =     .01 SQ MI


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          *            *
 74 KK    *     RT1A   *
          *            *
          **************
                    ROUTE RUNOFF FROM BASIN 1A THROUGH BASIN 1 (ALONG HW 101)

            HYDROGRAPH ROUTING DATA

 76 RS          STORAGE ROUTING
                     NSTPS          3  NUMBER OF SUBREACHES
                      ITYP       STOR  TYPE OF INITIAL CONDITION
                    RSVRIC      -1.00  INITIAL CONDITION
                         X        .00 WORKING R AND D COEFFICIENT

 77 RC          NORMAL DEPTH CHANNEL
                       ANL       .020  LEFT OVERBANK N-VALUE
                      ANCH       .020  MAIN CHANNEL N-VALUE
                       ANR       .020  RIGHT OVERBANK N-VALUE
                     RLNTH      3225.  REACH LENGTH
                       SEL      .0068  ENERGY SLOPE
                     ELMAX         .0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                  CROSS-SECTION DATA
                      --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
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79 RY	ELEVATION	2.00	2.00	1.50	1.00	1.00	1.50	2.00	2.00
78 RX	DISTANCE	.00	5.00	10.00	15.00	20.00	25.00	30.00	35.00

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COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	.02	.05	.08	.11	.15	.19	.24	.29	.34
OUTFLOW	.00	.24	.78	1.61	2.73	4.15	5.89	7.96	10.39	13.19
ELEVATION	1.00	1.05	1.11	1.16	1.21	1.26	1.32	1.37	1.42	1.47
STORAGE	.40	.46	.53	.60	.67	.75	.84	.92	1.02	1.11
OUTFLOW	16.73	21.04	25.83	31.10	36.88	43.18	50.02	57.41	65.38	71.69
ELEVATION	1.53	1.58	1.63	1.68	1.74	1.79	1.84	1.89	1.95	2.00

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HYDROGRAPH AT STATION RT1A

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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	JAN	1200	1	0.	.0	1.0	1	JAN	2020	101	0.	.0	1.0	2	JAN	0440	201	0.	.0	1.1
1	JAN	1205	2	0.	.0	1.0	1	JAN	2025	102	0.	.0	1.0	2	JAN	0445	202	0.	.0	1.1
1	JAN	1210	3	0.	.0	1.0	1	JAN	2030	103	0.	.0	1.0	2	JAN	0450	203	0.	.0	1.1
1	JAN	1215	4	0.	.0	1.0	1	JAN	2035	104	0.	.0	1.0	2	JAN	0455	204	0.	.0	1.1
1	JAN	1220	5	0.	.0	1.0	1	JAN	2040	105	0.	.0	1.0	2	JAN	0500	205	0.	.0	1.1
1	JAN	1225	6	0.	.0	1.0	1	JAN	2045	106	0.	.0	1.0	2	JAN	0505	206	0.	.0	1.1
1	JAN	1230	7	0.	.0	1.0	1	JAN	2050	107	0.	.0	1.0	2	JAN	0510	207	0.	.0	1.1
1	JAN	1235	8	0.	.0	1.0	1	JAN	2055	108	0.	.0	1.0	2	JAN	0515	208	0.	.0	1.1
1	JAN	1240	9	0.	.0	1.0	1	JAN	2100	109	0.	.0	1.0	2	JAN	0520	209	0.	.0	1.1
1	JAN	1245	10	0.	.0	1.0	1	JAN	2105	110	0.	.0	1.0	2	JAN	0525	210	0.	.0	1.1
1	JAN	1250	11	0.	.0	1.0	1	JAN	2110	111	0.	.0	1.0	2	JAN	0530	211	0.	.0	1.1
1	JAN	1255	12	0.	.0	1.0	1	JAN	2115	112	0.	.0	1.0	2	JAN	0535	212	0.	.0	1.1
1	JAN	1300	13	0.	.0	1.0	1	JAN	2120	113	0.	.0	1.0	2	JAN	0540	213	0.	.0	1.1
1	JAN	1305	14	0.	.0	1.0	1	JAN	2125	114	0.	.0	1.0	2	JAN	0545	214	0.	.0	1.0
1	JAN	1310	15	0.	.0	1.0	1	JAN	2130	115	0.	.0	1.0	2	JAN	0550	215	0.	.0	1.0
1	JAN	1315	16	0.	.0	1.0	1	JAN	2135	116	0.	.0	1.0	2	JAN	0555	216	0.	.0	1.0
1	JAN	1320	17	0.	.0	1.0	1	JAN	2140	117	0.	.0	1.0	2	JAN	0600	217	0.	.0	1.0
1	JAN	1325	18	0.	.0	1.0	1	JAN	2145	118	0.	.0	1.0	2	JAN	0605	218	0.	.0	1.0
1	JAN	1330	19	0.	.0	1.0	1	JAN	2150	119	0.	.0	1.0	2	JAN	0610	219	0.	.0	1.0
1	JAN	1335	20	0.	.0	1.0	1	JAN	2155	120	0.	.0	1.0	2	JAN	0615	220	0.	.0	1.0
1	JAN	1340	21	0.	.0	1.0	1	JAN	2200	121	0.	.0	1.0	2	JAN	0620	221	0.	.0	1.0
1	JAN	1345	22	0.	.0	1.0	1	JAN	2205	122	0.	.0	1.0	2	JAN	0625	222	0.	.0	1.0
1	JAN	1350	23	0.	.0	1.0	1	JAN	2210	123	0.	.0	1.0	2	JAN	0630	223	0.	.0	1.0
1	JAN	1355	24	0.	.0	1.0	1	JAN	2215	124	0.	.0	1.0	2	JAN	0635	224	0.	.0	1.0
1	JAN	1400	25	0.	.0	1.0	1	JAN	2220	125	0.	.0	1.0	2	JAN	0640	225	0.	.0	1.0
1	JAN	1405	26	0.	.0	1.0	1	JAN	2225	126	0.	.0	1.0	2	JAN	0645	226	0.	.0	1.0
1	JAN	1410	27	0.	.0	1.0	1	JAN	2230	127	0.	.0	1.0	2	JAN	0650	227	0.	.0	1.0
1	JAN	1415	28	0.	.0	1.0	1	JAN	2235	128	0.	.0	1.0	2	JAN	0655	228	0.	.0	1.0
1	JAN	1420	29	0.	.0	1.0	1	JAN	2240	129	0.	.0	1.0	2	JAN	0700	229	0.	.0	1.0
1	JAN	1425	30	0.	.0	1.0	1	JAN	2245	130	0.	.0	1.0	2	JAN	0705	230	0.	.0	1.0
1	JAN	1430	31	0.	.0	1.0	1	JAN	2250	131	0.	.0	1.0	2	JAN	0710	231	0.	.0	1.0
1	JAN	1435	32	0.	.0	1.0	1	JAN	2255	132	0.	.0	1.0	2	JAN	0715	232	0.	.0	1.0
1	JAN	1440	33	0.	.0	1.0	1	JAN	2300	133	0.	.0	1.0	2	JAN	0720	233	0.	.0	1.0
1	JAN	1445	34	0.	.0	1.0	1	JAN	2305	134	0.	.0	1.0	2	JAN	0725	234	0.	.0	1.0
1	JAN	1450	35	0.	.0	1.0	1	JAN	2310	135	0.	.0	1.0	2	JAN	0730	235	0.	.0	1.0
1	JAN	1455	36	0.	.0	1.0	1	JAN	2315	136	0.	.0	1.0	2	JAN	0735	236	0.	.0	1.0

1	JAN	1500	37	0.	.0	1.0	*	1	JAN	2320	137	0.	.0	1.0	*	2	JAN	0740	237	0.	.0	1.0
1	JAN	1505	38	0.	.0	1.0	*	1	JAN	2325	138	0.	.0	1.0	*	2	JAN	0745	238	0.	.0	1.0
1	JAN	1510	39	0.	.0	1.0	*	1	JAN	2330	139	0.	.0	1.0	*	2	JAN	0750	239	0.	.0	1.0
1	JAN	1515	40	0.	.0	1.0	*	1	JAN	2335	140	0.	.0	1.0	*	2	JAN	0755	240	0.	.0	1.0
1	JAN	1520	41	0.	.0	1.0	*	1	JAN	2340	141	0.	.0	1.0	*	2	JAN	0800	241	0.	.0	1.0
1	JAN	1525	42	0.	.0	1.0	*	1	JAN	2345	142	0.	.0	1.0	*	2	JAN	0805	242	0.	.0	1.0
1	JAN	1530	43	0.	.0	1.0	*	1	JAN	2350	143	0.	.0	1.0	*	2	JAN	0810	243	0.	.0	1.0
1	JAN	1535	44	0.	.0	1.0	*	1	JAN	2355	144	0.	.0	1.0	*	2	JAN	0815	244	0.	.0	1.0
1	JAN	1540	45	0.	.0	1.0	*	2	JAN	0000	145	0.	.0	1.0	*	2	JAN	0820	245	0.	.0	1.0
1	JAN	1545	46	0.	.0	1.0	*	2	JAN	0005	146	0.	.0	1.0	*	2	JAN	0825	246	0.	.0	1.0
1	JAN	1550	47	0.	.0	1.0	*	2	JAN	0010	147	0.	.0	1.0	*	2	JAN	0830	247	0.	.0	1.0
1	JAN	1555	48	0.	.0	1.0	*	2	JAN	0015	148	0.	.0	1.0	*	2	JAN	0835	248	0.	.0	1.0
1	JAN	1600	49	0.	.0	1.0	*	2	JAN	0020	149	0.	.0	1.0	*	2	JAN	0840	249	0.	.0	1.0
1	JAN	1605	50	0.	.0	1.0	*	2	JAN	0025	150	0.	.0	1.0	*	2	JAN	0845	250	0.	.0	1.0
1	JAN	1610	51	0.	.0	1.0	*	2	JAN	0030	151	0.	.0	1.0	*	2	JAN	0850	251	0.	.0	1.0
1	JAN	1615	52	0.	.0	1.0	*	2	JAN	0035	152	0.	.0	1.0	*	2	JAN	0855	252	0.	.0	1.0
1	JAN	1620	53	0.	.0	1.0	*	2	JAN	0040	153	0.	.0	1.0	*	2	JAN	0900	253	0.	.0	1.0
1	JAN	1625	54	0.	.0	1.0	*	2	JAN	0045	154	0.	.0	1.0	*	2	JAN	0905	254	0.	.0	1.0
1	JAN	1630	55	0.	.0	1.0	*	2	JAN	0050	155	0.	.0	1.0	*	2	JAN	0910	255	0.	.0	1.0
1	JAN	1635	56	0.	.0	1.0	*	2	JAN	0055	156	0.	.0	1.0	*	2	JAN	0915	256	0.	.0	1.0
1	JAN	1640	57	0.	.0	1.0	*	2	JAN	0100	157	0.	.0	1.0	*	2	JAN	0920	257	0.	.0	1.0
1	JAN	1645	58	0.	.0	1.0	*	2	JAN	0105	158	0.	.0	1.0	*	2	JAN	0925	258	0.	.0	1.0
1	JAN	1650	59	0.	.0	1.0	*	2	JAN	0110	159	0.	.0	1.0	*	2	JAN	0930	259	0.	.0	1.0
1	JAN	1655	60	0.	.0	1.0	*	2	JAN	0115	160	0.	.0	1.0	*	2	JAN	0935	260	0.	.0	1.0
1	JAN	1700	61	0.	.0	1.0	*	2	JAN	0120	161	0.	.0	1.0	*	2	JAN	0940	261	0.	.0	1.0
1	JAN	1705	62	0.	.0	1.0	*	2	JAN	0125	162	0.	.0	1.0	*	2	JAN	0945	262	0.	.0	1.0
1	JAN	1710	63	0.	.0	1.0	*	2	JAN	0130	163	0.	.0	1.0	*	2	JAN	0950	263	0.	.0	1.0
1	JAN	1715	64	0.	.0	1.0	*	2	JAN	0135	164	0.	.0	1.0	*	2	JAN	0955	264	0.	.0	1.0
1	JAN	1720	65	0.	.0	1.0	*	2	JAN	0140	165	0.	.0	1.0	*	2	JAN	1000	265	0.	.0	1.0
1	JAN	1725	66	0.	.0	1.0	*	2	JAN	0145	166	0.	.0	1.0	*	2	JAN	1005	266	0.	.0	1.0
1	JAN	1730	67	0.	.0	1.0	*	2	JAN	0150	167	0.	.0	1.0	*	2	JAN	1010	267	0.	.0	1.0
1	JAN	1735	68	0.	.0	1.0	*	2	JAN	0155	168	0.	.0	1.0	*	2	JAN	1015	268	0.	.0	1.0
1	JAN	1740	69	0.	.0	1.0	*	2	JAN	0200	169	0.	.0	1.0	*	2	JAN	1020	269	0.	.0	1.0
1	JAN	1745	70	0.	.0	1.0	*	2	JAN	0205	170	0.	.0	1.0	*	2	JAN	1025	270	0.	.0	1.0
1	JAN	1750	71	0.	.0	1.0	*	2	JAN	0210	171	0.	.0	1.0	*	2	JAN	1030	271	0.	.0	1.0
1	JAN	1755	72	0.	.0	1.0	*	2	JAN	0215	172	0.	.0	1.0	*	2	JAN	1035	272	0.	.0	1.0
1	JAN	1800	73	0.	.0	1.0	*	2	JAN	0220	173	0.	.0	1.0	*	2	JAN	1040	273	0.	.0	1.0
1	JAN	1805	74	0.	.0	1.0	*	2	JAN	0225	174	0.	.0	1.0	*	2	JAN	1045	274	0.	.0	1.0
1	JAN	1810	75	0.	.0	1.0	*	2	JAN	0230	175	0.	.0	1.0	*	2	JAN	1050	275	0.	.0	1.0
1	JAN	1815	76	0.	.0	1.0	*	2	JAN	0235	176	0.	.0	1.0	*	2	JAN	1055	276	0.	.0	1.0
1	JAN	1820	77	0.	.0	1.0	*	2	JAN	0240	177	0.	.0	1.0	*	2	JAN	1100	277	0.	.0	1.0
1	JAN	1825	78	0.	.0	1.0	*	2	JAN	0245	178	0.	.0	1.0	*	2	JAN	1105	278	0.	.0	1.0
1	JAN	1830	79	0.	.0	1.0	*	2	JAN	0250	179	0.	.0	1.0	*	2	JAN	1110	279	0.	.0	1.0
1	JAN	1835	80	0.	.0	1.0	*	2	JAN	0255	180	0.	.0	1.0	*	2	JAN	1115	280	0.	.0	1.0
1	JAN	1840	81	0.	.0	1.0	*	2	JAN	0300	181	0.	.0	1.0	*	2	JAN	1120	281	0.	.0	1.0
1	JAN	1845	82	0.	.0	1.0	*	2	JAN	0305	182	0.	.0	1.0	*	2	JAN	1125	282	0.	.0	1.0
1	JAN	1850	83	0.	.0	1.0	*	2	JAN	0310	183	0.	.0	1.0	*	2	JAN	1130	283	0.	.0	1.0
1	JAN	1855	84	0.	.0	1.0	*	2	JAN	0315	184	0.	.0	1.0	*	2	JAN	1135	284	0.	.0	1.0
1	JAN	1900	85	0.	.0	1.0	*	2	JAN	0320	185	0.	.0	1.0	*	2	JAN	1140	285	0.	.0	1.0
1	JAN	1905	86	0.	.0	1.0	*	2	JAN	0325	186	0.	.0	1.0	*	2	JAN	1145	286	0.	.0	1.0
1	JAN	1910	87	0.	.0	1.0	*	2	JAN	0330	187	0.	.0	1.0	*	2	JAN	1150	287	0.	.0	1.0
1	JAN	1915	88	0.	.0	1.0	*	2	JAN	0335	188	0.	.0	1.0	*	2	JAN	1155	288	0.	.0	1.0
1	JAN	1920	89	0.	.0	1.0	*	2	JAN	0340	189	0.	.0	1.0	*	2	JAN	1200	289	0.	.0	1.0
1	JAN	1925	90	0.	.0	1.0	*	2	JAN	0345	190	0.	.0	1.0	*	2	JAN	1205	290	0.	.0	1.0
1	JAN	1930	91	0.	.0	1.0	*	2	JAN	0350	191	0.	.0	1.0	*	2	JAN	1210	291	0.	.0	1.0
1	JAN	1935	92	0.	.0	1.0	*	2	JAN	0355	192	0.	.0	1.0	*	2	JAN	1215	292	0.	.0	1.0
1	JAN	1940	93	0.	.0	1.0	*	2	JAN	0400	193	0.	.0	1.0	*	2	JAN	1220	293	0.	.0	1.0
1	JAN	1945	94	0.	.0	1.0	*	2	JAN	0405	194	0.	.0	1.0	*	2	JAN	1225	294	0.	.0	1.0
1	JAN	1950	95	0.	.0	1.0	*	2	JAN	0410	195	0.	.0	1.0	*	2	JAN	1230	295	0.	.0	1.0
1	JAN	1955	96	0.	.0	1.0	*	2	JAN	0415	196	0.	.0	1.0	*	2	JAN	1235	296	0.	.0	1.0

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1 JAN 2000  97      0.      .0    1.0 *  2 JAN 0420 197      0.      .0    1.0 *  2 JAN 1240 297      0.      .0    1.0
1 JAN 2005  98      0.      .0    1.0 *  2 JAN 0425 198      0.      .0    1.0 *  2 JAN 1245 298      0.      .0    1.0
1 JAN 2010  99      0.      .0    1.0 *  2 JAN 0430 199      0.      .0    1.0 *  2 JAN 1250 299      0.      .0    1.0
1 JAN 2015 100      0.      .0    1.0 *  2 JAN 0435 200      0.      .0    1.0 *  2 JAN 1255 300      0.      .0    1.0
                                      *                                        *
*****************************************************************************************************************************

PEAK FLOW     TIME                           MAXIMUM AVERAGE FLOW
  (CFS)       (HR)                 6-HR        24-HR       72-HR     24.92-HR
      0.     16.92       (CFS)       0.           0.          0.           0.
                      (INCHES)     .141         .168        .168         .168
                       (AC-FT)       0.           0.          0.           0.

PEAK STORAGE  TIME                          MAXIMUM AVERAGE STORAGE
  (AC-FT)     (HR)                 6-HR        24-HR       72-HR     24.92-HR
      0.     16.83                   0.           0.          0.           0.

PEAK STAGE    TIME                           MAXIMUM AVERAGE STAGE
  (FEET)      (HR)                 6-HR        24-HR       72-HR     24.92-HR
    1.06     16.92                 1.03         1.01        1.01         1.01

                       CUMULATIVE AREA =     .01 SQ MI


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


           **************
           *            *
80 KK      *       1B   *
           *            *
           **************

             SUBBASIN RUNOFF DATA

81 BA          SUBBASIN CHARACTERISTICS
                  TAREA          .03  SUBBASIN AREA

               PRECIPITATION DATA

40 PB             STORM         2.49  BASIN TOTAL PRECIPITATION

40 PI           INCREMENTAL PRECIPITATION PATTERN
                  .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                  .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                  .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                  .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                  .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                  .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                  .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                  .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                  .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                  .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                  .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                  .00       .01       .01       .01       .01       .01       .01       .01       .01       .01
                  .01       .01       .01       .01       .01       .01       .01       .01       .01       .01
                  .01       .01       .01       .01       .01       .01       .01       .01       .01       .01
                  .01       .01       .01       .01       .01       .01       .01       .01       .01       .01
```

.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.02	.02	.02	.02	.02	.02	.02
.02	.02	.02	.03	.03	.03	.03	.04	.05	.07
.10	.35	.06	.04	.03	.02	.02	.02	.02	.02
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
.01	.01	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00			

82 LS SCS LOSS RATE

STRTL	1.08	INITIAL ABSTRACTION
CRVNBR	65.00	CURVE NUMBER
RTIMP	.00	PERCENT IMPERVIOUS AREA

83 UD SCS DIMENSIONLESS UNITGRAPH

TLAG	.16	LAG

***

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

UNIT HYDROGRAPH

12 END-OF-PERIOD ORDINATES

23.	67.	65.	38.	19.	10.	5.	3.	1.	1.
0.	0.								

****

HYDROGRAPH AT STATION 1B

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DA MON HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	DA MON HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1 JAN 1200	1	.00	.00	.00	0.	2 JAN 0030	151	.01	.01	.00	0.
1 JAN 1205	2	.00	.00	.00	0.	2 JAN 0035	152	.01	.01	.00	0.
1 JAN 1210	3	.00	.00	.00	0.	2 JAN 0040	153	.01	.01	.00	0.
1 JAN 1215	4	.00	.00	.00	0.	2 JAN 0045	154	.01	.01	.00	0.
1 JAN 1220	5	.00	.00	.00	0.	2 JAN 0050	155	.01	.01	.00	0.
1 JAN 1225	6	.00	.00	.00	0.	2 JAN 0055	156	.01	.01	.00	0.
1 JAN 1230	7	.00	.00	.00	0.	2 JAN 0100	157	.01	.01	.00	0.
1 JAN 1235	8	.00	.00	.00	0.	2 JAN 0105	158	.01	.01	.00	0.
1 JAN 1240	9	.00	.00	.00	0.	2 JAN 0110	159	.01	.01	.00	0.
1 JAN 1245	10	.00	.00	.00	0.	2 JAN 0115	160	.01	.01	.00	0.
1 JAN 1250	11	.00	.00	.00	0.	2 JAN 0120	161	.01	.01	.00	0.
1 JAN 1255	12	.00	.00	.00	0.	2 JAN 0125	162	.01	.01	.00	0.
1 JAN 1300	13	.00	.00	.00	0.	2 JAN 0130	163	.01	.01	.00	0.
1 JAN 1305	14	.00	.00	.00	0.	2 JAN 0135	164	.01	.01	.00	0.
1 JAN 1310	15	.00	.00	.00	0.	2 JAN 0140	165	.01	.01	.00	0.
1 JAN 1315	16	.00	.00	.00	0.	2 JAN 0145	166	.01	.01	.00	0.
1 JAN 1320	17	.00	.00	.00	0.	2 JAN 0150	167	.01	.01	.00	0.
1 JAN 1325	18	.00	.00	.00	0.	2 JAN 0155	168	.01	.01	.00	0.
1 JAN 1330	19	.00	.00	.00	0.	2 JAN 0200	169	.01	.01	.00	0.
1 JAN 1335	20	.00	.00	.00	0.	2 JAN 0205	170	.01	.01	.00	0.

1 JAN 1340	21	.00	.00	.00	0.	*	2 JAN 0210	171	.01	.01	.00	0.
1 JAN 1345	22	.00	.00	.00	0.	*	2 JAN 0215	172	.01	.01	.00	0.
1 JAN 1350	23	.00	.00	.00	0.	*	2 JAN 0220	173	.01	.01	.00	0.
1 JAN 1355	24	.00	.00	.00	0.	*	2 JAN 0225	174	.01	.01	.00	0.
1 JAN 1400	25	.00	.00	.00	0.	*	2 JAN 0230	175	.02	.02	.00	0.
1 JAN 1405	26	.00	.00	.00	0.	*	2 JAN 0235	176	.02	.02	.00	0.
1 JAN 1410	27	.00	.00	.00	0.	*	2 JAN 0240	177	.02	.02	.00	0.
1 JAN 1415	28	.00	.00	.00	0.	*	2 JAN 0245	178	.02	.02	.00	0.
1 JAN 1420	29	.00	.00	.00	0.	*	2 JAN 0250	179	.02	.02	.00	0.
1 JAN 1425	30	.00	.00	.00	0.	*	2 JAN 0255	180	.02	.02	.00	0.
1 JAN 1430	31	.00	.00	.00	0.	*	2 JAN 0300	181	.02	.02	.00	0.
1 JAN 1435	32	.00	.00	.00	0.	*	2 JAN 0305	182	.02	.02	.00	0.
1 JAN 1440	33	.00	.00	.00	0.	*	2 JAN 0310	183	.02	.02	.00	0.
1 JAN 1445	34	.00	.00	.00	0.	*	2 JAN 0315	184	.02	.02	.00	0.
1 JAN 1450	35	.00	.00	.00	0.	*	2 JAN 0320	185	.03	.03	.00	0.
1 JAN 1455	36	.00	.00	.00	0.	*	2 JAN 0325	186	.03	.03	.00	0.
1 JAN 1500	37	.00	.00	.00	0.	*	2 JAN 0330	187	.03	.03	.00	0.
1 JAN 1505	38	.00	.00	.00	0.	*	2 JAN 0335	188	.03	.03	.00	0.
1 JAN 1510	39	.00	.00	.00	0.	*	2 JAN 0340	189	.04	.04	.00	0.
1 JAN 1515	40	.00	.00	.00	0.	*	2 JAN 0345	190	.05	.04	.00	0.
1 JAN 1520	41	.00	.00	.00	0.	*	2 JAN 0350	191	.07	.06	.01	1.
1 JAN 1525	42	.00	.00	.00	0.	*	2 JAN 0355	192	.10	.09	.01	1.
1 JAN 1530	43	.00	.00	.00	0.	*	2 JAN 0400	193	.35	.29	.06	3.
1 JAN 1535	44	.00	.00	.00	0.	*	2 JAN 0405	194	.06	.04	.01	6.
1 JAN 1540	45	.00	.00	.00	0.	*	2 JAN 0410	195	.04	.03	.01	6.
1 JAN 1545	46	.00	.00	.00	0.	*	2 JAN 0415	196	.03	.02	.01	4.
1 JAN 1550	47	.00	.00	.00	0.	*	2 JAN 0420	197	.02	.02	.01	3.
1 JAN 1555	48	.00	.00	.00	0.	*	2 JAN 0425	198	.02	.02	.01	2.
1 JAN 1600	49	.00	.00	.00	0.	*	2 JAN 0430	199	.02	.01	.01	2.
1 JAN 1605	50	.00	.00	.00	0.	*	2 JAN 0435	200	.02	.01	.00	2.
1 JAN 1610	51	.00	.00	.00	0.	*	2 JAN 0440	201	.02	.01	.00	1.
1 JAN 1615	52	.00	.00	.00	0.	*	2 JAN 0445	202	.01	.01	.00	1.
1 JAN 1620	53	.00	.00	.00	0.	*	2 JAN 0450	203	.01	.01	.00	1.
1 JAN 1625	54	.00	.00	.00	0.	*	2 JAN 0455	204	.01	.01	.00	1.
1 JAN 1630	55	.00	.00	.00	0.	*	2 JAN 0500	205	.01	.01	.00	1.
1 JAN 1635	56	.00	.00	.00	0.	*	2 JAN 0505	206	.01	.01	.00	1.
1 JAN 1640	57	.00	.00	.00	0.	*	2 JAN 0510	207	.01	.01	.00	1.
1 JAN 1645	58	.00	.00	.00	0.	*	2 JAN 0515	208	.01	.01	.00	1.
1 JAN 1650	59	.00	.00	.00	0.	*	2 JAN 0520	209	.01	.01	.00	1.
1 JAN 1655	60	.00	.00	.00	0.	*	2 JAN 0525	210	.01	.01	.00	1.
1 JAN 1700	61	.00	.00	.00	0.	*	2 JAN 0530	211	.01	.01	.00	1.
1 JAN 1705	62	.00	.00	.00	0.	*	2 JAN 0535	212	.01	.01	.00	1.
1 JAN 1710	63	.00	.00	.00	0.	*	2 JAN 0540	213	.01	.01	.00	1.
1 JAN 1715	64	.00	.00	.00	0.	*	2 JAN 0545	214	.01	.01	.00	1.
1 JAN 1720	65	.00	.00	.00	0.	*	2 JAN 0550	215	.01	.01	.00	1.
1 JAN 1725	66	.00	.00	.00	0.	*	2 JAN 0555	216	.01	.01	.00	1.
1 JAN 1730	67	.00	.00	.00	0.	*	2 JAN 0600	217	.01	.00	.00	1.
1 JAN 1735	68	.00	.00	.00	0.	*	2 JAN 0605	218	.01	.00	.00	1.
1 JAN 1740	69	.00	.00	.00	0.	*	2 JAN 0610	219	.01	.00	.00	1.
1 JAN 1745	70	.00	.00	.00	0.	*	2 JAN 0615	220	.01	.00	.00	1.
1 JAN 1750	71	.00	.00	.00	0.	*	2 JAN 0620	221	.01	.00	.00	1.
1 JAN 1755	72	.00	.00	.00	0.	*	2 JAN 0625	222	.01	.00	.00	0.
1 JAN 1800	73	.00	.00	.00	0.	*	2 JAN 0630	223	.01	.00	.00	0.
1 JAN 1805	74	.00	.00	.00	0.	*	2 JAN 0635	224	.01	.00	.00	0.
1 JAN 1810	75	.00	.00	.00	0.	*	2 JAN 0640	225	.01	.00	.00	0.
1 JAN 1815	76	.00	.00	.00	0.	*	2 JAN 0645	226	.01	.00	.00	0.
1 JAN 1820	77	.00	.00	.00	0.	*	2 JAN 0650	227	.01	.00	.00	0.
1 JAN 1825	78	.00	.00	.00	0.	*	2 JAN 0655	228	.01	.00	.00	0.
1 JAN 1830	79	.00	.00	.00	0.	*	2 JAN 0700	229	.01	.00	.00	0.
1 JAN 1835	80	.00	.00	.00	0.	*	2 JAN 0705	230	.01	.00	.00	0.

1 JAN 1840	81	.00	.00	.00	0.	*	2 JAN 0710	231	.01	.00	.00	0.
1 JAN 1845	82	.00	.00	.00	0.	*	2 JAN 0715	232	.01	.00	.00	0.
1 JAN 1850	83	.00	.00	.00	0.	*	2 JAN 0720	233	.01	.00	.00	0.
1 JAN 1855	84	.00	.00	.00	0.	*	2 JAN 0725	234	.00	.00	.00	0.
1 JAN 1900	85	.00	.00	.00	0.	*	2 JAN 0730	235	.00	.00	.00	0.
1 JAN 1905	86	.00	.00	.00	0.	*	2 JAN 0735	236	.00	.00	.00	0.
1 JAN 1910	87	.00	.00	.00	0.	*	2 JAN 0740	237	.00	.00	.00	0.
1 JAN 1915	88	.00	.00	.00	0.	*	2 JAN 0745	238	.00	.00	.00	0.
1 JAN 1920	89	.00	.00	.00	0.	*	2 JAN 0750	239	.00	.00	.00	0.
1 JAN 1925	90	.00	.00	.00	0.	*	2 JAN 0755	240	.00	.00	.00	0.
1 JAN 1930	91	.00	.00	.00	0.	*	2 JAN 0800	241	.00	.00	.00	0.
1 JAN 1935	92	.00	.00	.00	0.	*	2 JAN 0805	242	.00	.00	.00	0.
1 JAN 1940	93	.00	.00	.00	0.	*	2 JAN 0810	243	.00	.00	.00	0.
1 JAN 1945	94	.00	.00	.00	0.	*	2 JAN 0815	244	.00	.00	.00	0.
1 JAN 1950	95	.00	.00	.00	0.	*	2 JAN 0820	245	.00	.00	.00	0.
1 JAN 1955	96	.00	.00	.00	0.	*	2 JAN 0825	246	.00	.00	.00	0.
1 JAN 2000	97	.00	.00	.00	0.	*	2 JAN 0830	247	.00	.00	.00	0.
1 JAN 2005	98	.00	.00	.00	0.	*	2 JAN 0835	248	.00	.00	.00	0.
1 JAN 2010	99	.00	.00	.00	0.	*	2 JAN 0840	249	.00	.00	.00	0.
1 JAN 2015	100	.00	.00	.00	0.	*	2 JAN 0845	250	.00	.00	.00	0.
1 JAN 2020	101	.00	.00	.00	0.	*	2 JAN 0850	251	.00	.00	.00	0.
1 JAN 2025	102	.00	.00	.00	0.	*	2 JAN 0855	252	.00	.00	.00	0.
1 JAN 2030	103	.00	.00	.00	0.	*	2 JAN 0900	253	.00	.00	.00	0.
1 JAN 2035	104	.00	.00	.00	0.	*	2 JAN 0905	254	.00	.00	.00	0.
1 JAN 2040	105	.00	.00	.00	0.	*	2 JAN 0910	255	.00	.00	.00	0.
1 JAN 2045	106	.00	.00	.00	0.	*	2 JAN 0915	256	.00	.00	.00	0.
1 JAN 2050	107	.00	.00	.00	0.	*	2 JAN 0920	257	.00	.00	.00	0.
1 JAN 2055	108	.00	.00	.00	0.	*	2 JAN 0925	258	.00	.00	.00	0.
1 JAN 2100	109	.00	.00	.00	0.	*	2 JAN 0930	259	.00	.00	.00	0.
1 JAN 2105	110	.00	.00	.00	0.	*	2 JAN 0935	260	.00	.00	.00	0.
1 JAN 2110	111	.00	.00	.00	0.	*	2 JAN 0940	261	.00	.00	.00	0.
1 JAN 2115	112	.00	.00	.00	0.	*	2 JAN 0945	262	.00	.00	.00	0.
1 JAN 2120	113	.01	.01	.00	0.	*	2 JAN 0950	263	.00	.00	.00	0.
1 JAN 2125	114	.01	.01	.00	0.	*	2 JAN 0955	264	.00	.00	.00	0.
1 JAN 2130	115	.01	.01	.00	0.	*	2 JAN 1000	265	.00	.00	.00	0.
1 JAN 2135	116	.01	.01	.00	0.	*	2 JAN 1005	266	.00	.00	.00	0.
1 JAN 2140	117	.01	.01	.00	0.	*	2 JAN 1010	267	.00	.00	.00	0.
1 JAN 2145	118	.01	.01	.00	0.	*	2 JAN 1015	268	.00	.00	.00	0.
1 JAN 2150	119	.01	.01	.00	0.	*	2 JAN 1020	269	.00	.00	.00	0.
1 JAN 2155	120	.01	.01	.00	0.	*	2 JAN 1025	270	.00	.00	.00	0.
1 JAN 2200	121	.01	.01	.00	0.	*	2 JAN 1030	271	.00	.00	.00	0.
1 JAN 2205	122	.01	.01	.00	0.	*	2 JAN 1035	272	.00	.00	.00	0.
1 JAN 2210	123	.01	.01	.00	0.	*	2 JAN 1040	273	.00	.00	.00	0.
1 JAN 2215	124	.01	.01	.00	0.	*	2 JAN 1045	274	.00	.00	.00	0.
1 JAN 2220	125	.01	.01	.00	0.	*	2 JAN 1050	275	.00	.00	.00	0.
1 JAN 2225	126	.01	.01	.00	0.	*	2 JAN 1055	276	.00	.00	.00	0.
1 JAN 2230	127	.01	.01	.00	0.	*	2 JAN 1100	277	.00	.00	.00	0.
1 JAN 2235	128	.01	.01	.00	0.	*	2 JAN 1105	278	.00	.00	.00	0.
1 JAN 2240	129	.01	.01	.00	0.	*	2 JAN 1110	279	.00	.00	.00	0.
1 JAN 2245	130	.01	.01	.00	0.	*	2 JAN 1115	280	.00	.00	.00	0.
1 JAN 2250	131	.01	.01	.00	0.	*	2 JAN 1120	281	.00	.00	.00	0.
1 JAN 2255	132	.01	.01	.00	0.	*	2 JAN 1125	282	.00	.00	.00	0.
1 JAN 2300	133	.01	.01	.00	0.	*	2 JAN 1130	283	.00	.00	.00	0.
1 JAN 2305	134	.01	.01	.00	0.	*	2 JAN 1135	284	.00	.00	.00	0.
1 JAN 2310	135	.01	.01	.00	0.	*	2 JAN 1140	285	.00	.00	.00	0.
1 JAN 2315	136	.01	.01	.00	0.	*	2 JAN 1145	286	.00	.00	.00	0.
1 JAN 2320	137	.01	.01	.00	0.	*	2 JAN 1150	287	.00	.00	.00	0.
1 JAN 2325	138	.01	.01	.00	0.	*	2 JAN 1155	288	.00	.00	.00	0.
1 JAN 2330	139	.01	.01	.00	0.	*	2 JAN 1200	289	.00	.00	.00	0.
1 JAN 2335	140	.01	.01	.00	0.	*	2 JAN 1205	290	.00	.00	.00	0.

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1 JAN 2340  141    .01    .01    .00        0.      *      2 JAN 1210  291    .00    .00    .00        0.
1 JAN 2345  142    .01    .01    .00        0.      *      2 JAN 1215  292    .00    .00    .00        0.
1 JAN 2350  143    .01    .01    .00        0.      *      2 JAN 1220  293    .00    .00    .00        0.
1 JAN 2355  144    .01    .01    .00        0.      *      2 JAN 1225  294    .00    .00    .00        0.
2 JAN 0000  145    .01    .01    .00        0.      *      2 JAN 1230  295    .00    .00    .00        0.
2 JAN 0005  146    .01    .01    .00        0.      *      2 JAN 1235  296    .00    .00    .00        0.
2 JAN 0010  147    .01    .01    .00        0.      *      2 JAN 1240  297    .00    .00    .00        0.
2 JAN 0015  148    .01    .01    .00        0.      *      2 JAN 1245  298    .00    .00    .00        0.
2 JAN 0020  149    .01    .01    .00        0.      *      2 JAN 1250  299    .00    .00    .00        0.
2 JAN 0025  150    .01    .01    .00        0.      *      2 JAN 1255  300    .00    .00    .00        0.
                                                    *
*****************************************************************************************************************

  TOTAL RAINFALL =    2.49, TOTAL LOSS =    2.20, TOTAL EXCESS =     .30

PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
  (CFS)       (HR)                  6-HR       24-HR       72-HR     24.92-HR
     6.      16.17       (CFS)       1.          0.          0.           0.
                       (INCHES)     .260        .295        .295         .295
                        (AC-FT)      0.          0.          0.           0.

                       CUMULATIVE AREA =     .03 SQ MI


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

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          *            *
 84 KK    *     RT1B   *
          *            *
          **************
                     ROUTE RUNOFF FROM BASIN 1B THROUGH BASIN 1 (ALONG ORPHEUS ST.)

            HYDROGRAPH ROUTING DATA

 86 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

 87 RC          NORMAL DEPTH CHANNEL
                       ANL       .020  LEFT OVERBANK N-VALUE
                      ANCH       .020  MAIN CHANNEL N-VALUE
                       ANR       .020  RIGHT OVERBANK N-VALUE
                     RLNTH      1125.  REACH LENGTH
                       SEL      .0000  ENERGY SLOPE
                     ELMAX         .0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                   CROSS-SECTION DATA
                        --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
 89 RY        ELEVATION     2.00      2.00      1.50      1.00      1.00      1.50      2.00      2.00
 88 RX        DISTANCE       .00      5.00     10.00     15.00     20.00     25.00     30.00     35.00

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                                  COMPUTED STORAGE-OUTFLOW-ELEVATION DATA
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STORAGE	.00	.01	.02	.03	.04	.05	.07	.08	.10	.12
OUTFLOW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ELEVATION	1.00	1.05	1.11	1.16	1.21	1.26	1.32	1.37	1.42	1.47
STORAGE	.14	.16	.18	.21	.24	.26	.29	.32	.35	.39
OUTFLOW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ELEVATION	1.53	1.58	1.63	1.68	1.74	1.79	1.84	1.89	1.95	2.00

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HYDROGRAPH AT STATION RT1B

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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	JAN	1200	1	0.	.1	1.5	1	JAN	2020	101	0.	.1	1.5	2	JAN	0440	201	0.	.3	1.9
1	JAN	1205	2	0.	.1	1.5	1	JAN	2025	102	0.	.1	1.5	2	JAN	0445	202	0.	.4	2.0
1	JAN	1210	3	0.	.1	1.5	1	JAN	2030	103	0.	.1	1.5	2	JAN	0450	203	0.	.4	2.0
1	JAN	1215	4	0.	.1	1.5	1	JAN	2035	104	0.	.1	1.5	2	JAN	0455	204	0.	.4	2.0
1	JAN	1220	5	0.	.1	1.5	1	JAN	2040	105	0.	.1	1.5	2	JAN	0500	205	0.	.4	2.0
1	JAN	1225	6	0.	.1	1.5	1	JAN	2045	106	0.	.1	1.5	2	JAN	0505	206	0.	.4	2.0
1	JAN	1230	7	0.	.1	1.5	1	JAN	2050	107	0.	.1	1.5	2	JAN	0510	207	0.	.4	2.0
1	JAN	1235	8	0.	.1	1.5	1	JAN	2055	108	0.	.1	1.5	2	JAN	0515	208	0.	.4	2.0
1	JAN	1240	9	0.	.1	1.5	1	JAN	2100	109	0.	.1	1.5	2	JAN	0520	209	0.	.4	2.0
1	JAN	1245	10	0.	.1	1.5	1	JAN	2105	110	0.	.1	1.5	2	JAN	0525	210	0.	.4	2.0
1	JAN	1250	11	0.	.1	1.5	1	JAN	2110	111	0.	.1	1.5	2	JAN	0530	211	0.	.4	2.0
1	JAN	1255	12	0.	.1	1.5	1	JAN	2115	112	0.	.1	1.5	2	JAN	0535	212	0.	.4	2.0
1	JAN	1300	13	0.	.1	1.5	1	JAN	2120	113	0.	.1	1.5	2	JAN	0540	213	0.	.4	2.1
1	JAN	1305	14	0.	.1	1.5	1	JAN	2125	114	0.	.1	1.5	2	JAN	0545	214	0.	.4	2.1
1	JAN	1310	15	0.	.1	1.5	1	JAN	2130	115	0.	.1	1.5	2	JAN	0550	215	0.	.4	2.1
1	JAN	1315	16	0.	.1	1.5	1	JAN	2135	116	0.	.1	1.5	2	JAN	0555	216	0.	.4	2.1
1	JAN	1320	17	0.	.1	1.5	1	JAN	2140	117	0.	.1	1.5	2	JAN	0600	217	0.	.4	2.1
1	JAN	1325	18	0.	.1	1.5	1	JAN	2145	118	0.	.1	1.5	2	JAN	0605	218	0.	.4	2.1
1	JAN	1330	19	0.	.1	1.5	1	JAN	2150	119	0.	.1	1.5	2	JAN	0610	219	0.	.4	2.1
1	JAN	1335	20	0.	.1	1.5	1	JAN	2155	120	0.	.1	1.5	2	JAN	0615	220	0.	.5	2.1
1	JAN	1340	21	0.	.1	1.5	1	JAN	2200	121	0.	.1	1.5	2	JAN	0620	221	0.	.5	2.1
1	JAN	1345	22	0.	.1	1.5	1	JAN	2205	122	0.	.1	1.5	2	JAN	0625	222	0.	.5	2.1
1	JAN	1350	23	0.	.1	1.5	1	JAN	2210	123	0.	.1	1.5	2	JAN	0630	223	0.	.5	2.1
1	JAN	1355	24	0.	.1	1.5	1	JAN	2215	124	0.	.1	1.5	2	JAN	0635	224	0.	.5	2.1
1	JAN	1400	25	0.	.1	1.5	1	JAN	2220	125	0.	.1	1.5	2	JAN	0640	225	0.	.5	2.1
1	JAN	1405	26	0.	.1	1.5	1	JAN	2225	126	0.	.1	1.5	2	JAN	0645	226	0.	.5	2.1
1	JAN	1410	27	0.	.1	1.5	1	JAN	2230	127	0.	.1	1.5	2	JAN	0650	227	0.	.5	2.1
1	JAN	1415	28	0.	.1	1.5	1	JAN	2235	128	0.	.1	1.5	2	JAN	0655	228	0.	.5	2.1
1	JAN	1420	29	0.	.1	1.5	1	JAN	2240	129	0.	.1	1.5	2	JAN	0700	229	0.	.5	2.1
1	JAN	1425	30	0.	.1	1.5	1	JAN	2245	130	0.	.1	1.5	2	JAN	0705	230	0.	.5	2.2
1	JAN	1430	31	0.	.1	1.5	1	JAN	2250	131	0.	.1	1.5	2	JAN	0710	231	0.	.5	2.2
1	JAN	1435	32	0.	.1	1.5	1	JAN	2255	132	0.	.1	1.5	2	JAN	0715	232	0.	.5	2.2
1	JAN	1440	33	0.	.1	1.5	1	JAN	2300	133	0.	.1	1.5	2	JAN	0720	233	0.	.5	2.2
1	JAN	1445	34	0.	.1	1.5	1	JAN	2305	134	0.	.1	1.5	2	JAN	0725	234	0.	.5	2.2
1	JAN	1450	35	0.	.1	1.5	1	JAN	2310	135	0.	.1	1.5	2	JAN	0730	235	0.	.5	2.2
1	JAN	1455	36	0.	.1	1.5	1	JAN	2315	136	0.	.1	1.5	2	JAN	0735	236	0.	.5	2.2
1	JAN	1500	37	0.	.1	1.5	1	JAN	2320	137	0.	.1	1.5	2	JAN	0740	237	0.	.5	2.2
1	JAN	1505	38	0.	.1	1.5	1	JAN	2325	138	0.	.1	1.5	2	JAN	0745	238	0.	.5	2.2
1	JAN	1510	39	0.	.1	1.5	1	JAN	2330	139	0.	.1	1.5	2	JAN	0750	239	0.	.5	2.2
1	JAN	1515	40	0.	.1	1.5	1	JAN	2335	140	0.	.1	1.5	2	JAN	0755	240	0.	.5	2.2
1	JAN	1520	41	0.	.1	1.5	1	JAN	2340	141	0.	.1	1.5	2	JAN	0800	241	0.	.5	2.2
1	JAN	1525	42	0.	.1	1.5	1	JAN	2345	142	0.	.1	1.5	2	JAN	0805	242	0.	.5	2.2

1 JAN 1530 43	0.	.1	1.5 *	1 JAN 2350 143	0.	.1	1.5 *	2 JAN 0810 243	0.	.5	2.2
1 JAN 1535 44	0.	.1	1.5 *	1 JAN 2355 144	0.	.1	1.5 *	2 JAN 0815 244	0.	.5	2.2
1 JAN 1540 45	0.	.1	1.5 *	2 JAN 0000 145	0.	.1	1.5 *	2 JAN 0820 245	0.	.5	2.2
1 JAN 1545 46	0.	.1	1.5 *	2 JAN 0005 146	0.	.1	1.5 *	2 JAN 0825 246	0.	.5	2.2
1 JAN 1550 47	0.	.1	1.5 *	2 JAN 0010 147	0.	.1	1.5 *	2 JAN 0830 247	0.	.5	2.2
1 JAN 1555 48	0.	.1	1.5 *	2 JAN 0015 148	0.	.1	1.5 *	2 JAN 0835 248	0.	.5	2.2
1 JAN 1600 49	0.	.1	1.5 *	2 JAN 0020 149	0.	.1	1.5 *	2 JAN 0840 249	0.	.5	2.2
1 JAN 1605 50	0.	.1	1.5 *	2 JAN 0025 150	0.	.1	1.5 *	2 JAN 0845 250	0.	.5	2.2
1 JAN 1610 51	0.	.1	1.5 *	2 JAN 0030 151	0.	.1	1.5 *	2 JAN 0850 251	0.	.5	2.2
1 JAN 1615 52	0.	.1	1.5 *	2 JAN 0035 152	0.	.1	1.5 *	2 JAN 0855 252	0.	.5	2.2
1 JAN 1620 53	0.	.1	1.5 *	2 JAN 0040 153	0.	.1	1.5 *	2 JAN 0900 253	0.	.5	2.2
1 JAN 1625 54	0.	.1	1.5 *	2 JAN 0045 154	0.	.1	1.5 *	2 JAN 0905 254	0.	.5	2.2
1 JAN 1630 55	0.	.1	1.5 *	2 JAN 0050 155	0.	.1	1.5 *	2 JAN 0910 255	0.	.5	2.2
1 JAN 1635 56	0.	.1	1.5 *	2 JAN 0055 156	0.	.1	1.5 *	2 JAN 0915 256	0.	.5	2.3
1 JAN 1640 57	0.	.1	1.5 *	2 JAN 0100 157	0.	.1	1.5 *	2 JAN 0920 257	0.	.5	2.3
1 JAN 1645 58	0.	.1	1.5 *	2 JAN 0105 158	0.	.1	1.5 *	2 JAN 0925 258	0.	.6	2.3
1 JAN 1650 59	0.	.1	1.5 *	2 JAN 0110 159	0.	.1	1.5 *	2 JAN 0930 259	0.	.6	2.3
1 JAN 1655 60	0.	.1	1.5 *	2 JAN 0115 160	0.	.1	1.5 *	2 JAN 0935 260	0.	.6	2.3
1 JAN 1700 61	0.	.1	1.5 *	2 JAN 0120 161	0.	.1	1.5 *	2 JAN 0940 261	0.	.6	2.3
1 JAN 1705 62	0.	.1	1.5 *	2 JAN 0125 162	0.	.1	1.5 *	2 JAN 0945 262	0.	.6	2.3
1 JAN 1710 63	0.	.1	1.5 *	2 JAN 0130 163	0.	.1	1.5 *	2 JAN 0950 263	0.	.6	2.3
1 JAN 1715 64	0.	.1	1.5 *	2 JAN 0135 164	0.	.1	1.5 *	2 JAN 0955 264	0.	.6	2.3
1 JAN 1720 65	0.	.1	1.5 *	2 JAN 0140 165	0.	.1	1.5 *	2 JAN 1000 265	0.	.6	2.3
1 JAN 1725 66	0.	.1	1.5 *	2 JAN 0145 166	0.	.1	1.5 *	2 JAN 1005 266	0.	.6	2.3
1 JAN 1730 67	0.	.1	1.5 *	2 JAN 0150 167	0.	.1	1.5 *	2 JAN 1010 267	0.	.6	2.3
1 JAN 1735 68	0.	.1	1.5 *	2 JAN 0155 168	0.	.1	1.5 *	2 JAN 1015 268	0.	.6	2.3
1 JAN 1740 69	0.	.1	1.5 *	2 JAN 0200 169	0.	.1	1.5 *	2 JAN 1020 269	0.	.6	2.3
1 JAN 1745 70	0.	.1	1.5 *	2 JAN 0205 170	0.	.1	1.5 *	2 JAN 1025 270	0.	.6	2.3
1 JAN 1750 71	0.	.1	1.5 *	2 JAN 0210 171	0.	.1	1.5 *	2 JAN 1030 271	0.	.6	2.3
1 JAN 1755 72	0.	.1	1.5 *	2 JAN 0215 172	0.	.1	1.5 *	2 JAN 1035 272	0.	.6	2.3
1 JAN 1800 73	0.	.1	1.5 *	2 JAN 0220 173	0.	.1	1.5 *	2 JAN 1040 273	0.	.6	2.3
1 JAN 1805 74	0.	.1	1.5 *	2 JAN 0225 174	0.	.1	1.5 *	2 JAN 1045 274	0.	.6	2.3
1 JAN 1810 75	0.	.1	1.5 *	2 JAN 0230 175	0.	.1	1.5 *	2 JAN 1050 275	0.	.6	2.3
1 JAN 1815 76	0.	.1	1.5 *	2 JAN 0235 176	0.	.1	1.5 *	2 JAN 1055 276	0.	.6	2.3
1 JAN 1820 77	0.	.1	1.5 *	2 JAN 0240 177	0.	.1	1.5 *	2 JAN 1100 277	0.	.6	2.3
1 JAN 1825 78	0.	.1	1.5 *	2 JAN 0245 178	0.	.1	1.5 *	2 JAN 1105 278	0.	.6	2.3
1 JAN 1830 79	0.	.1	1.5 *	2 JAN 0250 179	0.	.1	1.5 *	2 JAN 1110 279	0.	.6	2.3
1 JAN 1835 80	0.	.1	1.5 *	2 JAN 0255 180	0.	.1	1.5 *	2 JAN 1115 280	0.	.6	2.3
1 JAN 1840 81	0.	.1	1.5 *	2 JAN 0300 181	0.	.1	1.5 *	2 JAN 1120 281	0.	.6	2.3
1 JAN 1845 82	0.	.1	1.5 *	2 JAN 0305 182	0.	.1	1.5 *	2 JAN 1125 282	0.	.6	2.3
1 JAN 1850 83	0.	.1	1.5 *	2 JAN 0310 183	0.	.1	1.5 *	2 JAN 1130 283	0.	.6	2.3
1 JAN 1855 84	0.	.1	1.5 *	2 JAN 0315 184	0.	.1	1.5 *	2 JAN 1135 284	0.	.6	2.3
1 JAN 1900 85	0.	.1	1.5 *	2 JAN 0320 185	0.	.1	1.5 *	2 JAN 1140 285	0.	.6	2.3
1 JAN 1905 86	0.	.1	1.5 *	2 JAN 0325 186	0.	.1	1.5 *	2 JAN 1145 286	0.	.6	2.3
1 JAN 1910 87	0.	.1	1.5 *	2 JAN 0330 187	0.	.1	1.5 *	2 JAN 1150 287	0.	.6	2.3
1 JAN 1915 88	0.	.1	1.5 *	2 JAN 0335 188	0.	.1	1.5 *	2 JAN 1155 288	0.	.6	2.3
1 JAN 1920 89	0.	.1	1.5 *	2 JAN 0340 189	0.	.1	1.5 *	2 JAN 1200 289	0.	.6	2.4
1 JAN 1925 90	0.	.1	1.5 *	2 JAN 0345 190	0.	.1	1.5 *	2 JAN 1205 290	0.	.6	2.4
1 JAN 1930 91	0.	.1	1.5 *	2 JAN 0350 191	0.	.1	1.5 *	2 JAN 1210 291	0.	.6	2.4
1 JAN 1935 92	0.	.1	1.5 *	2 JAN 0355 192	0.	.2	1.6 *	2 JAN 1215 292	0.	.6	2.4
1 JAN 1940 93	0.	.1	1.5 *	2 JAN 0400 193	0.	.2	1.6 *	2 JAN 1220 293	0.	.6	2.4
1 JAN 1945 94	0.	.1	1.5 *	2 JAN 0405 194	0.	.2	1.7 *	2 JAN 1225 294	0.	.6	2.4
1 JAN 1950 95	0.	.1	1.5 *	2 JAN 0410 195	0.	.2	1.7 *	2 JAN 1230 295	0.	.6	2.4
1 JAN 1955 96	0.	.1	1.5 *	2 JAN 0415 196	0.	.3	1.8 *	2 JAN 1235 296	0.	.6	2.4
1 JAN 2000 97	0.	.1	1.5 *	2 JAN 0420 197	0.	.3	1.8 *	2 JAN 1240 297	0.	.6	2.4
1 JAN 2005 98	0.	.1	1.5 *	2 JAN 0425 198	0.	.3	1.9 *	2 JAN 1245 298	0.	.6	2.4
1 JAN 2010 99	0.	.1	1.5 *	2 JAN 0430 199	0.	.3	1.9 *	2 JAN 1250 299	0.	.6	2.4
1 JAN 2015 100	0.	.1	1.5 *	2 JAN 0435 200	0.	.3	1.9 *	2 JAN 1255 300	0.	.6	2.4
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