FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

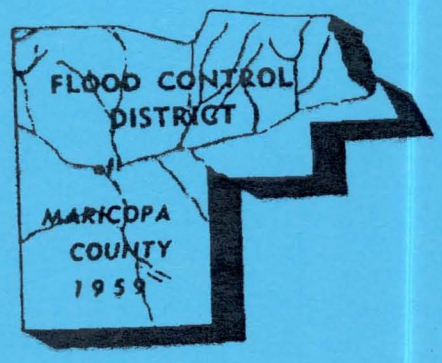
WHITE TANKS WASH FLOOD INSURANCE STUDY

FCD 90-64

HYDROLOGIC ANALYSIS

BOOK B

Peter H. Hemingway



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January 30, 1996

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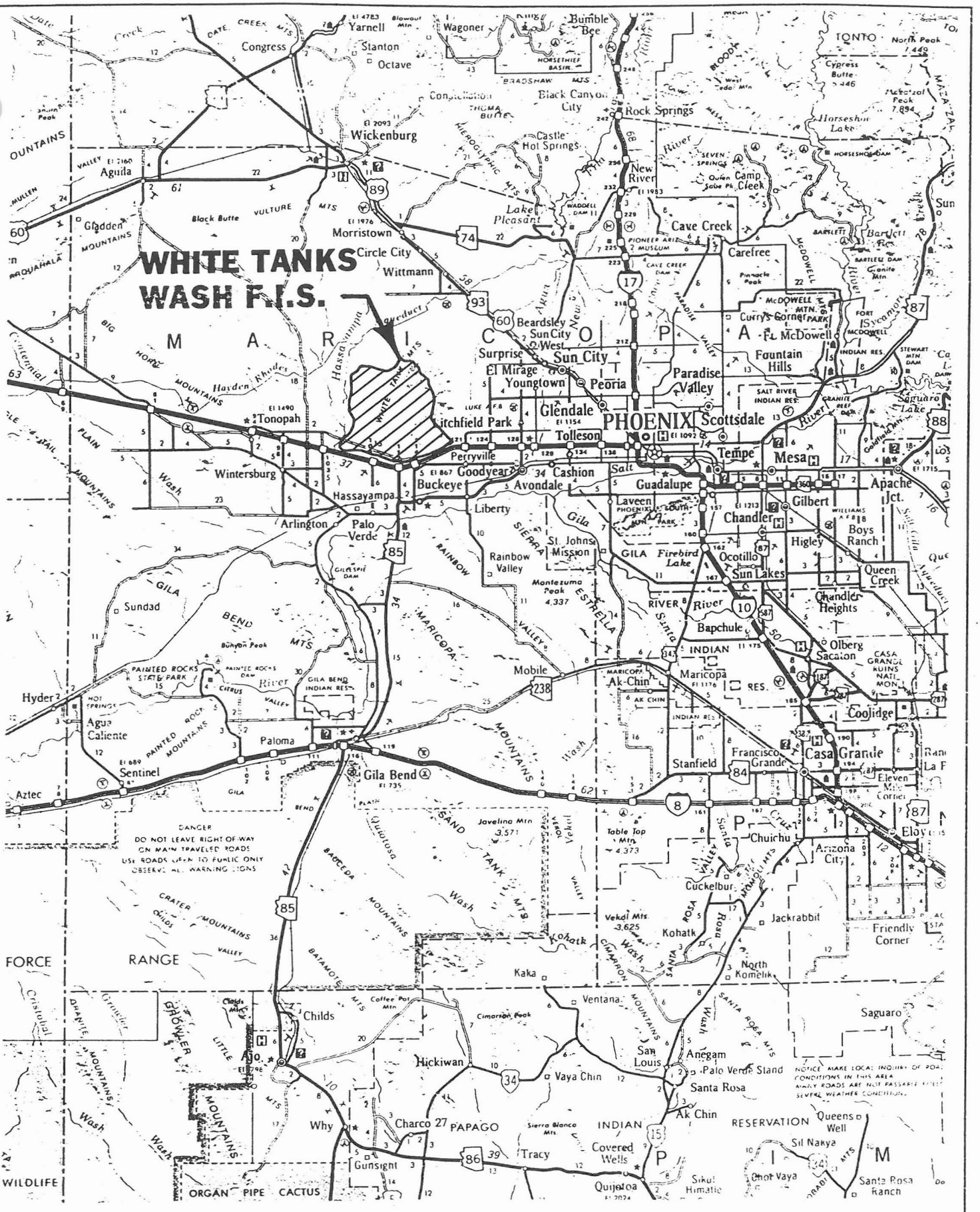
3.1 METHOD DESCRIPTION

A hydrologic analysis was carried out to establish the peak discharge-frequency relationships for the study area. The methodology stipulated in the Contract Scope of Work for studying the watershed is contained in the 1992 Flood Control District Hydrologic Design Manual for Maricopa County, Arizona. There are no stream flow nor significant rainfall records available for the White Tanks Wash drainage basin. The only means for calibration of the rainfall-runoff projections, therefore, is by comparison with other methods and studies. The precipitation for the area was obtained from NOAA Atlas 2, Volume VIII isopluvial maps of the area, prepared by the Office of Hydrology, National Weather Service. They were plotted as precipitation depth versus return period on a partial duration series plot. The watershed runoff was studied for both the 100-year 6-hour duration storm using the Flood Control Districts distribution and the 100-year 24-hour duration storm using SCS Type II distribution. Areal reduction, using the Corps of Engineers' Queen Creek method, was applied to the 6-hour storm. NOAA HYDRO-40 was used for the 24 hour calculations. Rainfall losses were calculated using the Green and Ampt equation based on published SCS soil texture data, with surface retention losses and vegetative cover effects accounted for. The S-Graph method was used for developing the unit hydrographs for the entire basin. The method is applicable even for those sub-basins that are less than five square miles in area if they have a time of concentration greater than the duration of the most intense rainfall. Time of concentration was determined using the S-Graph lag equation. Routing was accomplished using normal depth routing, with the general locations for the typical cross sections selected from quadrangle maps and aerial photos but with the dimensions and "n" values determined in the field. The U. S. Army Corps of Engineers, Hydrologic Engineering Center computer program HEC-1, Version 4.0, September 1990 as implemented by Haestad Methods was used to process the data.



VICINITY MAP

SCALE 1" = 15 MILES

FIGURE 1

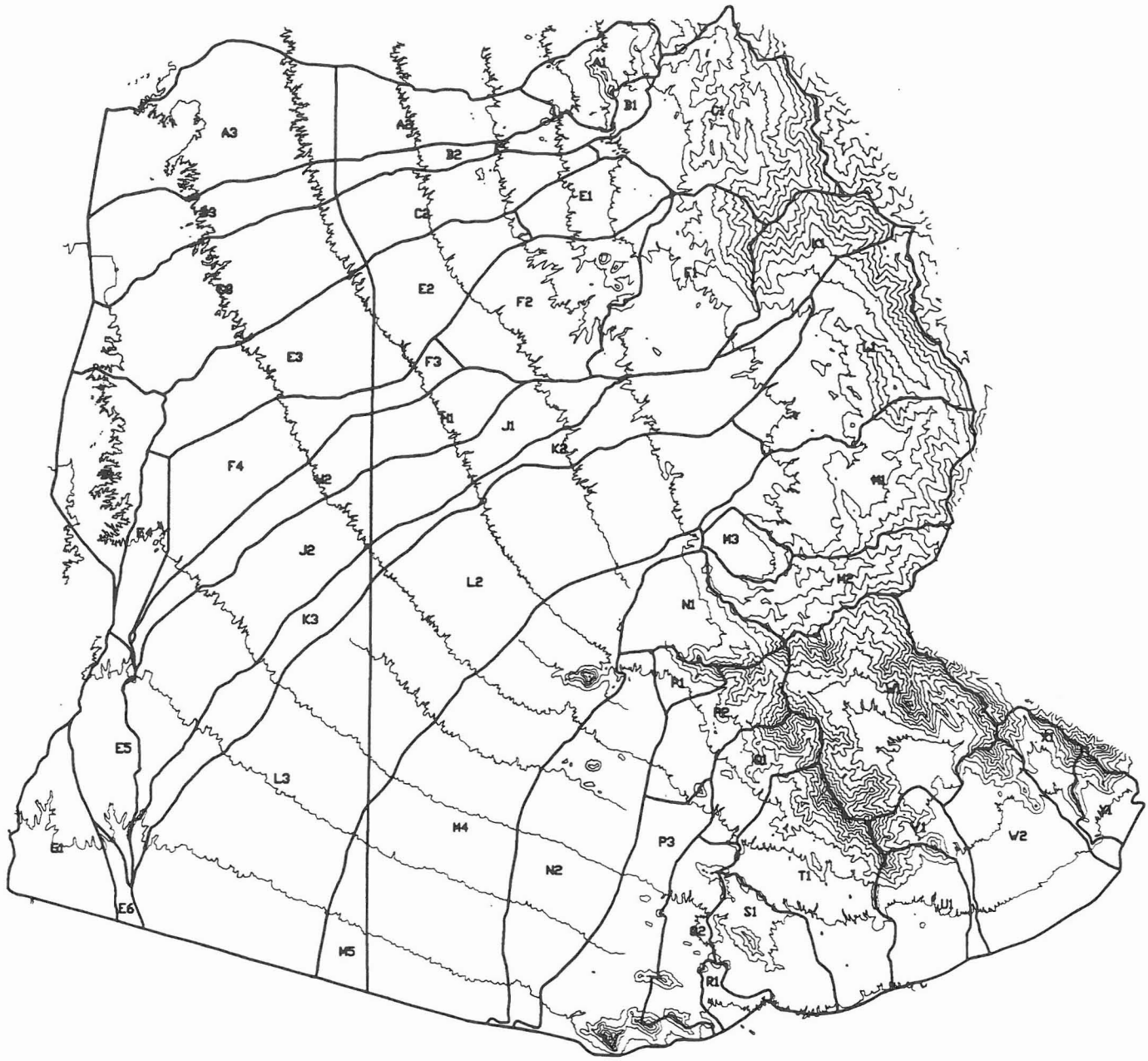
3.2 PARAMETER ESTIMATION

3.2.1 Drainage Area Boundaries

The White Tanks Wash FIS area lies 40 miles west of Phoenix (see Fig. 1, Vicinity Map). The hydrologic study area is 111.5 square miles, bounded on the west by the Hassayampa River; on the north by the Wagner Wash watershed; on the east by the crest of the White Tank Mountains; and on the south by Buckeye Structures #1, 2 and 3 north of highway I-10. The basin is shown on Figure 4, the Study Area Map. The watershed was subdivided into four distinct zones based upon topographic characteristics: the mountains to the east, the piedmont in the eastern low gradient desert area, the stable channel area west of the Parkway, and the small drainages that border the Hassayampa River. All basin boundaries and flow channels were digitized and combined with the digitized quadrangle maps in AutoCad and used to determine areas and lengths for calculations.

The "White Tank Mountains Flood Hazard Maps" from the "Geologic Mapping of Flood Hazards in Maricopa County" (ref 9) were of considerable assistance in determining areas unaffected by flooding. The Geologic Mapping study involved determining the extent of disturbance of desert pavement and small rocks with "desert varnish" on them. By combining topographic relief, soil development and the age of the varnish with mapping of the disturbed varnish area boundaries, it was possible to conclude that certain areas had been undisturbed by stream flow for periods from a thousand to over ten thousand years. These periods greatly exceed the 100 year or less period of engineering interest for flood plain studies and are an excellent indicator of the stability of stream location. The areas so identified can generally be considered permanently flood free for engineering design, planning and flood insurance purposes.

In geological time, any area at the foot of mountains can be considered to be an alluvial fan and subject to movement of the area inundated during floods in a seemingly capricious manner. Engineering flood studies are concerned with more localized areas and much shorter time periods than required for significant geological changes such as tectonic movements. However, if the above information is combined with the hydraulic information, areas can be delineated that have a low risk of inundation in an engineering time frame. If such an area is subject to development, the areas that are now stable and not subject to flooding will probably still be flood free after the developments have passed into antiquity. Development of a storm drainage system and its subsequent maintenance are much more likely to maintain these areas above flood level than to change the conditions and make them flood prone. The County must, however, review the development plans to assure that the floodways are adequately sized, correctly located and properly designed.



STUDY AREA

FIGURE 4

The mountain area involves steep, deeply incised drainages in the White Tank Mountains and foothills. Subbasin watershed boundaries are clearly defined laterally, and downstream longitudinal boundaries were selected at the point where the streams emerge from the mountain valleys. Dividing ridges were identified from the contours on the quadrangle maps and refined through study of the stereo aerial photos.

The sub-basins in the low gradient desert piedmont area from the foot of the mountains to either the Parkway or to the Buckeye Structures in the southeast are clearly defined longitudinally but in some areas poorly defined laterally. The quadrangle maps with 20-foot contours were of limited usefulness in this area, as many of the dividing ridges were only about 10-feet high. The "White Tank Mountains Flood Hazard Maps" from the "Geologic Mapping of Flood Hazards in Maricopa County" (ref 9) were used to determine preliminary boundaries. The aerial photos were studied extensively in this area to establish reliable long-term basin divides and to contain any distributary flow areas. This office work was augmented by a field trip to each location that had questionable usefulness as a divide or was a possible distributary flow area. Eight possible distributary flow areas were identified in the piedmont area and are discussed in detail in Section 3.4, Special Problems/Solutions. Initially the sub-basin size was to be limited to six square miles, but this limit was adjusted when it became apparent that the physical basins had to be wider than anticipated. As a result of this process, four sub-basins (M4, N2, L2 and L3) were delineated that were larger than the desired size. In the first two cases, narrower sub-basins would have resulted in arbitrary borders that would have been subject to flow crossing from one sub-basin to the next. Problems within a 100 year engineering time frame could have included inundation of the dividing ridge during large peak flows, distributary flow areas or channel migration. Sub-basin L3 is downstream of the Parkway but for consistency it's boundaries were selected in conjunction with L2. None of these four sub-basins directly influence the hydraulic study area of White Tanks Wash. Selection of boundaries for the other sub-basins in this area were developed in conjunction with the upstream and downstream sub-basins to provide consistent drainage basin boundaries from mountain top to mouth.

The delineated drainage channels are all in the stable stream area downstream and west of the Parkway. The larger sediments from major storms has been deposited upstream in the low gradient piedmont area. Channel shifts and flow changes in this area are almost always the result of distributary flow upstream not local changes. The area was studied in detail by Field and Pearthree and reported upon in Geologic Mapping of Flood Hazards in Maricopa County (ref 9). Their method of determining that surface rocks have not been disturbed in recent geologic time based upon the development of desert varnish on the exposed surface has provided scientific support to normal field observation. Observations in the field, comparison with the results of the Geologic study and review by Professor Laursen all indicate that these basins have remained static for centuries and will probably remain static for many more centuries.

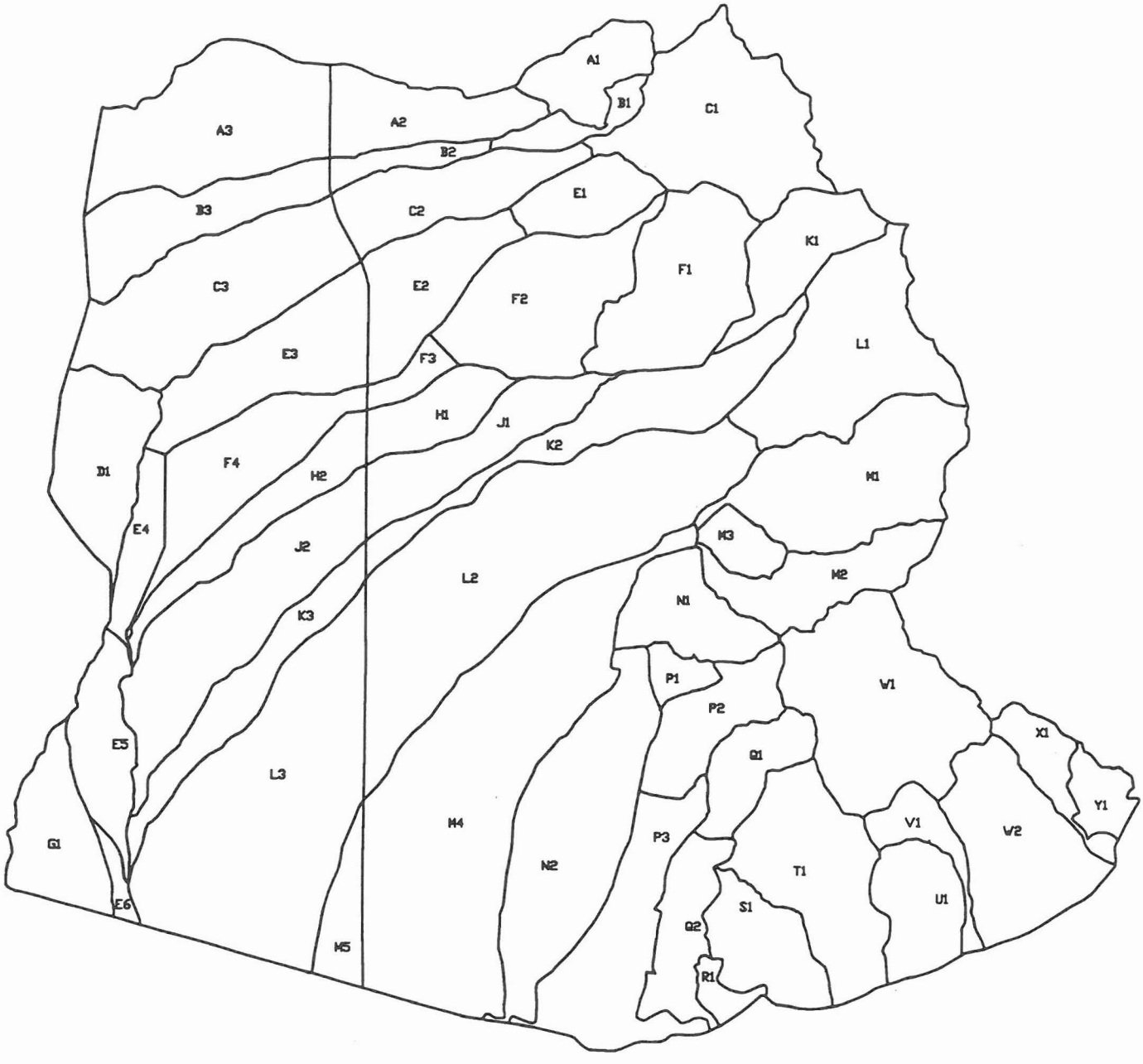
The construction of the Parkway with its culvert crossings has further stabilized and defined the flow coming into these channels in both location and maximum quantity. The paved surface of the Parkway is unlikely to erode and will certainly not remain eroded for long in the very unlikely event that the Parkway is overtopped. The culverts and roadside ditches have sufficient cross-sectional area to convey and divert all of the 100 year flow from individual channels under or downgrade along the Parkway without overtopping the roadway. The maximum discharge through any culvert is limited by inlet control under approximately one to three feet of surcharge. Therefore the location of the streams is dictated by the culvert location and the maximum flow quantity by the culvert size. The stream reaches in this area are more than three miles from the primary source of sediment at the base of the mountains. Most of the large sediment has been deposited far upstream in the distributary flow areas during small storms and only moved downstream towards the Parkway by very large storms. The upstream flood flow during large floods will be sediment carrying flow at a much higher velocity than in the backwater pond above the culvert. During storms large enough to create a significant backwater (generally larger than a 10 year event), the streams drop a high percentage of their sand and gravel sediment upstream of the Sun Valley Parkway in the backwater of the culverts. If the culvert capacity is not exceeded, the flow velocity will increase downstream to approximately the same range as it was above the culvert because the channel slopes are similar. This flow will be transporting less sediment than it can carry at that velocity. The result is commonly described as clear water scour in the stream bed downstream of the Parkway. In order to reach a stable sediment transport condition, the stream will erode in this area. The resulting incising and degradation of the bed downstream of the culvert will continue until a new equilibrium is reached in the area. The channels, and therefore the sub-basin boundaries, will remain essentially static and predicable in location with only typical riverine side cutting of the banks occurring.

Each of the sub-basins in the stable stream area could be divided one or more times longitudinally. Continuing the basin boundaries upstream for the inflow basins in the piedmont upstream of the Parkway would involve distributary flow areas that would make allocation of the flow problematical. During very large floods, some of the flow reaching culverts near the north edge of each basin may exceed the culvert's capacity and flow south along the east edge of the Parkway. When the flow reaches the next culvert, it will combine and either flow through the culvert or continue the process to the south. The interconnection along the Parkway of the streams between subbasins was computed and incorporated into the study. The only occurrence of this for a 100-year event was between subbasin F and H. For study purposes, this diversion produces the same result as if flow had been diverted from subbasin F to G in the distributary flow area upstream. In most cases within a subbasin where flow may divert along the Parkway, the flow from two or more culverts combines a short distance to the west of the Parkway and was not therefore separately calculated.

The basins that drain directly into the Hassayampa River, rather than into the White Tanks Wash, were included in the hydrologic study to provide continuous hydrology coverage with adjoining flood studies. Sub-drainages A through C on the north edge of the study are fully developed basins that drain westward from the mountains, across the piedmont and Parkway, to the river. Sub-basins D1 and G1 are small areas that include several very small, short ephemeral streams that drain the eastern river bank and flow west into the river and were not separately modeled. Basins M through Y drain the southeastern portion of the hydrologic study area into the Buckeye Floodwater Retarding Structures separate from the White Tanks Wash.

Considerable effort was expended to delineate basins that do not have distributary flow areas that would have split or cross-over flows into adjacent basins. The USGS quadrangle maps were used to determine preliminary basin boundaries at every significant ridge line, even if only of minor elevation difference. During the study of basin boundaries, comparisons were made to previous drainage studies and most importantly to the results of the Flood Hazards of Distributory-Flow Areas in Southwestern Arizona (ref 67) and to Geologic Mapping of Flood Hazards in Maricopa County (ref 9). Each of the identified ridges was then studied on the aerial photos with a large stereoscope for current bank height and split flow evidence. Finally, each questionable site was visited in the field on January 27, 28 and 29, 1992 to determine the reliability of the ridge as a true long-term basin boundary. The effects of the eight identified distributary flow areas are discussed in Section 3.4. The resulting basin boundaries selected are, in a few cases, larger than the most desirable, but they are clearly delineated basins without split flow between basins.

The watershed was broken into 49 sub-basins averaging 2-¼ square miles in area. There are 23 mountain, 13 piedmont and 13 stable sub-basins; all classified as Sonoran desert. Sub-basin M5 and southern L3 are largely medium-density residential with subdivision roads and utilities in place. The middle portion of W2 has been subdivided but only a couple of residences have been constructed to date. A few scattered residences exist in sub-basins E4, J2, K3 and P3. There are five power transmission lines across the area, communications relays on several of the mountain tops and numerous old mine claims and explorations in the foothills. Primitive gravel and dirt roads exist for these facilities. The Sun Valley Parkway, a paved, divided highway, splits the area from north to south. The balance of the area is essentially rural and undeveloped, but large areas are in private ownership and were slated for development prior to the recent real estate downturn. There have been only minor attempts at agriculture in the area, except for range grazing during the winter months.



SCALE 1" = 10,000 FEET

DRAINAGE BASINS

FIGURE 3

3.2.2 Physical Parameters

Physical parameters were determined in accordance with the Maricopa County Hydrologic Design Manual (ref 29). Detailed explanations of the procedures are contained therein, and only those procedures that required a choice of method that varied from the standard methods or that were conducted in a special manner are explained below. Tables are included with results at the end of this section.

Green and Ampt Soils Parameters

The Generalized Hydrologic Soils Map for Arizona published by the SCS in March 1959 classifies the mountainous portion of the area as hydrologic soil group D and the balance of the area as group C, indicating that a relatively high runoff ratio can be expected. Soil Map Unit classifications used in this report were obtained from the SCS Soil Surveys of Central Maricopa County and Aguila-Carefree Area (ref 59 & 60). These maps show the majority of the piedmont area as hydrologic soil group B. The soil maps were digitized and coordinate matched to the basin map in vector format. During this process, several discrepancies were found in the soil maps, particularly at the boundary between the two maps. These were resolved through discussions with the local soil conservation office and the maps revised accordingly. All of these changes were minor except for two SCS labeling errors. Areas of the soil types in each basin were then determined directly from the combined computer maps, with the accuracy limited only by the digitizing accuracy and original map accuracy. The values for the area of each soil type in the sub-basin, slope and vegetative cover were entered into the FCDMC program S-GRAPH.WK1, which then determined the values for XKSAT and percentage of rock in each soil type from a FCDMC look-up table based on SCS soil survey data. The program also requires the input of land use and vegetative cover to modify the output values for HEC-1 input. The program uses these values to compute a composite, arealy adjusted XKSAT for the sub-basin and values for DTHETA, PSIF and RTIMP. For storms where the infiltration rate is less than the rainfall intensity, the Green and Ampt equation is $f = K(1 + \psi\Theta/F)$, where f = infiltration rate, K = XKSAT or the steady state hydraulic conductivity at natural saturation in the wetted zone, ψ = PSIF or the average wetting front capillary suction, Θ = DTHETA or the volummetric soil moisture deficit at the start of rainfall, and F = the depth of rainfall that has infiltrated into the soil since the beginning of rainfall. Results of the S-GRAPH calculations are presented in tabular form in Section 3.2.2.1. The MCUHP2 (Maricopa County Unit Hydrograph Program 2 for S-Graph) dated 12/16/91 developed by the FCDMC was used to build the data for the HEC-1 input file for the S- Graph option. The output file includes the selected rainfall distribution, unit graph selection and soil parameters.

Vegetation coverage on undeveloped desert areas was determined by first physically performing several transects at different times of the year in the field to provide a basic reference. This was used to evaluate a previously developed equation that converts SCS data for dry pounds per acre of rangeland total plant production in a normal year to percent of vegetative cover. Use of this equation removes the bias inherent in doing the work during a wet, highly productive or dry, low productive period and provides a source of information that is not dependent upon the engineering observer nor the particular time or place the transects are taken. The equation is simply 0.6 times the square root of the dry pounds per acre. The equation is valid from no production equalling zero cover to 28,000 pounds per acre equalling 100 percent coverage, which is equivalent to a very heavy production of alfalfa. Use of this concept and equation also provides a correlation between the very sparsely covered desert terrain in Maricopa County and the very dense coverage of coastal rain forests. If an area of forest or alfalfa with obviously a maximum of 100 percent coverage has more than 10 times the plant cover than the desert does, the desert shouldn't be considered 30 percent covered. The 10 to 15 percent vegetative cover that resulted for the report area is a more reasonable average estimate.

Parameters for Reach Routing

The normal depth channel option in HEC-1 was used to route the flood hydrographs. The relevant input data is presented in Section 3.2.2.2. Each reach was identified on the quadrangle maps and the stream digitized. The elevation at each end of the reach was determined from the contour mapping. The length of the reach was obtained directly from the length of the stream polyline in the vectorized drawing. Centroids of each sub-basin were determined using scale models and transferred to the stream point opposite it. The stream in this area was studied on the topographic maps and in stereo from the aerial photos to determine the sub-reach near the centroid that was most typical of the entire reach. A peak 100-year flow was determined from an envelope curve equation and tabulated for field use. A quick solution of Manning's equation on a palm-top computer in the field provided assurance that the cross section information obtained was wide enough to define the channel and the over-bank "n" values were selected for the right areas.

Initially, each site was to be located using aerial photos alone. In the low gradient terrain east of the Parkway, streams had sections that were very similar in appearance to the next stream. Either considerable time had to be spent tracking your position on the photos or mistakes were certain to occur. This was unacceptable, so a small portable Geodetic Positioning System (GPS) unit was obtained. Each of the typical reaches were identified by latitude and longitude from the aerial photos and the GPS receiver was used to guide us accurately and directly to each site in the field. The entire process was checked by confirming the location with the aerial photos. Several hundred feet of each channel were walked in each case, and a typical or average cross section was selected and measured. The "n" values were determined for the channel and over-bank area using the USGS procedure in "estimating Manning's Roughness Coefficients" (ref 62) and a picture was taken at each site (see Section 3.2.2.3).

Typically, these washes have a small low flow channel with a sandy bed that is bordered by relatively heavy brush. The channel bed forms are dependant upon channel alignment, encroaching trees or large brush, and the size and slope of the falling limb of the hydrograph of the last storm. After several small storms, the beds are typically flat and uniformly graded sand or small gravel. After a large short-duration storm, the beds have numerous dunes, local scour at obstructions, restrictions and curves. The underlying bed material varies from sand to large cobbles with a high permeability over a calcareous sandy to gravelly clay loam with varying degrees of cementation that has only a moderate to low permeability. The brush along the edges of the low flow channel is sometimes so dense and thorny that it is impossible to pass through it without a detour or a machete. In addition, the banks are often irregular in alignment and rough in texture. Determination of realistic "n" values for these channel areas requires considerable judgement and experience. The method for determining "n" values using a base value with adjustment factors as outlined in reference 63 was used throughout this project. The recommended values and pictures in the reference were also related to past experience and other sources. A field trip with Russ Cluff, the most "n" value experienced member of the FCDMC staff, was especially helpful. In addition, a few HEC-2 test calculations were run using separate "n" values for the banks and center of the low flow channel and compared with composite "n" values to provide a guide for determining composite values. The "n" values for the over-bank areas were relatively easy to determine since they were quite homogeneous in each section of the reach. Over-bank vegetation is similar, but slightly heavier than the average vegetation for the area. The low flow channels often decrease in width as they progress downstream in the piedmont zone because channel infiltration during small, frequent storms depletes the runoff. The bed material typically has a high initial infiltration rate that, within the storage capacity of the material, will absorb much of the initial storm flows in the channel. The lower infiltration rate and capacity of the underlying parent material sets a limit on total infiltration rate and capacity. As a result, the large short duration peaks of the typical 100 year intense desert storms are reduced very little. Total outflow volume is however reduced by the infiltration volume. Field data sheets are in Section 3.2.2.4.

Transmission Losses

Transmission losses do not substantially reduce the 100-year peak flow and were not incorporated into the HEC-1 calculations for several reasons. There are insufficient available stream flow and precipitation data on which to base a transmission loss calibration. This study does not require that a volume of flow during the storm be determined, only the peak flows. During a 100-year event, the effect of infiltration in short stream channels normally has little affect on the peak flow. Percolation tests and falling head permeameter tests in similar streams indicate substantially higher (5 to 20 times) infiltration rates in the sand and gravel channels than in the overbank areas. Considerable care needs to be used when applying this information. In a major storm, the channel becomes saturated well before the hydrograph peak reaches any point. Several of the stream beds investigated in this study have caliche bases from 0 to 3 feet below the thalweg. Unless done with very large volumes of water, percolation tests merely indicate that the bed material is porous for a limited depth. In the streams with a caliche or rock base, the infiltrated water flows underground and often surfaces again when the base approaches the stream bed. Transmission losses are occasionally used as a means of correcting for other poorly determined input factors. Initial infiltration in the stream channel is at least partially accounted for in the Green and Ampt infiltration losses for each entire sub-basin. A simple calculation indicates that the effect that channel infiltration would have on the 100-year peak flow is less than 0.5 percent of the flow, or .01 foot elevation. Although this is insignificant for a 100-year flood event, the infiltration becomes very significant for small floods, such as annual recurrence events, and cannot be ignored.

Number of Routing Steps

Selection of the number of routing steps (NSTPS) using normal depth routing calculations is quite critical. The value for NSTPS is given in the HEC-1 manual and in Reference 37 and in the HEC manual as equal to the reach length divided by the average velocity of the flood wave as determined by the Manning formula divided by the computational time interval (NMIN). An approximate NSTPS within each reach was first calculated with Manning's formula using the field data for cross section and "n" values combined with the map values for slope and length. The NMIN value of 5 minutes was selected to be equal to or less than the shortest lag time for the watershed. An initial NSTPS time was calculated and used in a HEC-1 run. Some references indicate that HEC-1 will select the optimal value for NSTPS if left blank. However the program limits this selection to values between 1 and 10. A test of the automatic feature indicated that for the short NSTPS of 5 minutes used in these project, the reduction of peak discharge during routing was too large. A spreadsheet was developed for this computation and then solved in iterative computations using the routed flow quantity from HEC-1 for the input for each iteration. The system is convergent within the values for whole number steps. The final iteration values for both the 6 and 24 hour storms are tabulated on the following pages.

6 HR STORM HEC-1 COMPUTATIONS FOR NSTPS NSTPS6.WQ1 JB 931227

ROUTE	REACH	NSTPS	V	n	L	S	Q2	ELEV	P	Q1
A2	A1-1A	7	6.9	0.045	14160	0.024	514	14.43	48	559
A3	1A-2A	12	5.1	0.046	17480	0.013	1205	13.94	149	1318
B2	B1-1B	9	3.8	0.050	10400	0.017	208	11.79	58	229
B3	1B-2B	21	2.7	0.052	17140	0.013	241	11.46	119	351
C2	C1-1C	9	6.9	0.047	17760	0.020	1398	14.58	104	1487
C3	1C-2C	11	6.4	0.048	21270	0.012	1772	16.39	105	1922
E2	E1-1E	6	7.0	0.048	11890	0.021	628	13.88	46	659
E3	1E-2E	12	5.5	0.049	20000	0.010	1547	15.52	117	1693
F2	F1-1F	6	10.2	0.050	18320	0.033	1264	14.00	48	1318
F3	1F-2F	4	5.0	0.048	6680	0.013	2114	14.94	247	2187
F4	2F-2E	11	4.5	0.047	14310	0.014	2003	15.08	341	2117
E4	2E-3E	9	4.1	0.053	11000	0.006	3754	17.84	349	3946
2F	2F-2H	ERR	0.0	0.051	2600	0.002	0	13.22	76	0
H2	1H-3E	50	1.3	0.052	19810	0.010	49	12.23	120	82
E5	3E-4E	12	4.3	0.053	15000	0.005	3551	20.13	234	3754
J2	1J-4E	79	1.2	0.059	28445	0.009	109	10.95	248	306
K2	K1-1K	21	4.5	0.049	28440	0.028	596	11.10	156	747
K3	1K-4E	21	3.8	0.049	23874	0.009	1055	13.74	189	1266
E6	4E-5E	5	3.3	0.057	5000	0.006	3937	15.71	592	4003
L2	L1-1L	15	6.8	0.045	30784	0.020	1433	14.58	120	1581
L3	1L-2L	15	3.7	0.058	17310	0.013	2630	14.50	485	2804
M4	1M-2M	28	4.4	0.044	36390	0.015	1935	15.04	404	2274
N2	N1-1N	21	4.1	0.048	26520	0.018	578	12.67	143	749
P2	P1-1P	5	9.1	0.058	13340	0.081	205	13.29	16	230
P3	1P-2P	15	4.3	0.050	19430	0.024	664	14.17	175	770
Q2	Q1-1Q	7	6.5	0.059	14377	0.024	459	12.47	33	524
W2	W1-1W	6	6.4	0.062	12140	0.080	1533	13.38	259	1643

24 HR STORM HEC-1 COMPUTATIONS FOR NSTPS NSTPS24.WQ1 JB 93122

ROUTE	REACH	NSTPS	V	n	L	S	Q2	ELEV	P	Q1
A2	A1-1A	5	8.8	0.045	14160	0.024	931	14.43	48	1070
A3	1A-2A	9	6.1	0.046	17480	0.013	1949	13.94	149	2237
B2	B1-1B	7	5.0	0.050	10400	0.017	410	11.79	58	460
B3	1B-2B	15	3.8	0.052	17140	0.013	570	11.46	119	754
C2	C1-1C	7	8.7	0.047	17760	0.020	2431	14.58	104	2662
C3	1C-2C	9	8.1	0.048	21270	0.012	3134	16.39	105	3508
E2	E1-1E	5	8.4	0.048	11890	0.021	981	13.88	46	1072
E3	1E-2E	10	6.5	0.049	20000	0.010	2356	15.52	117	2729
F2	F1-1F	5	12.6	0.050	18320	0.033	2106	14.00	48	2232
F3	1F-2F	4	6.2	0.048	6680	0.013	3629	14.94	247	3861
F4	2F-2E	9	5.2	0.047	14310	0.014	2925	15.08	341	3080
E4	2E-3E	7	4.9	0.053	11000	0.006	5796	17.84	349	6208
2F	2F-2H	4	2.3	0.051	2600	0.002	494	13.22	76	615
H2	1H-3E	18	3.6	0.052	19810	0.010	623	12.23	120	860
E5	3E-4E	9	5.3	0.053	15000	0.005	5922	20.13	234	6256
J2	1J-4E	45	2.1	0.059	28445	0.009	460	10.95	248	868
K2	K1-1K	17	5.4	0.049	28440	0.028	953	11.10	156	1281
K3	1K-4E	18	4.5	0.049	23874	0.009	1661	13.74	189	2042
E6	4E-5E	4	4.1	0.057	5000	0.006	7120	15.71	592	7209
L2	L1-1L	12	8.2	0.045	30784	0.020	2270	14.58	120	2632
L3	1L-2L	13	4.6	0.058	17310	0.013	4318	14.50	485	4535
M4	1M-2M	24	5.2	0.044	36390	0.015	2863	15.04	404	3623
N2	N1-1N	17	5.1	0.048	26520	0.018	966	12.67	143	1475
P2	P1-1P	4	12.1	0.058	13340	0.081	422	13.29	16	483
P3	1P-2P	12	5.3	0.050	19430	0.024	1151	14.17	175	1467
Q2	Q1-1Q	6	8.1	0.059	14377	0.024	795	12.47	33	992
W2	W1-1W	5	8.2	0.062	12140	0.080	2792	13.38	259	3010

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
WHITE TANKS WASH FLOOD INSURANCE STUDY
SOIL CLASSIFICATION PROBLEMS AT MAP BOUNDARIES
by: ALPHA ENGINEERING GROUP, INC.
2701 E CAMELBACK, #100, PHOENIX AZ 85016

soilprob.wq1 6 Jan 94 JB

NORTH MAP INFORMATION				SOUTH MAP INFORMATION			
SOIL	SOIL MAP UNIT	XKSAT	%R	SOIL	SOIL MAP UNIT	XKSAT	%R
1	ANTHO SL	0.41		GM	GILMAN-ANTHRO	0.29	
1	ANTHO SL	0.41		AGB	ANTHO-CARRIZO 0-1	0.40	
2	ANTHO GSL	0.41		AL	ANTHO	0.40	
3	ANTHO-CARRIZO MARIPO	0.58		AGB	ANTHO-CARRIZO 0-1	0.40	
4	ANTHO-CARRIZO-MARIPO LOW PRECIP	0.58		AGB	ANTHO-CARRIZO 0-1	0.40	
29	DENURE-MOMOLI-CARRIZO	0.34		AM	ANTHO-VALENCIA	0.39	
70	GUNSIGHT-RILLITO 1-25	0.36		GYD	GUNSIGHT-RILLITO 1-10	0.26	
71	GUNSIGHT-PINAL 1-40 LOW PRECIP	0.36		GWD	GUNSIGHT-PINAL 1-10	0.35	
71	GUNSIGHT-PINAL 1-40 LOW PRECIP	0.36		GYD	GUNSIGHT-RILLITO 1-10	0.26	
71	GUNSIGHT-PINAL 1-40 LOW PRECIP	0.36		HLC	HARQUA-GUNSIGHT 0-5	0.14	
71	GUNSIGHT-PINAL 1-40 LOW PRECIP	0.36		RPE	RILLITO-PERRYVILLE 5-20	0.29	
98	PINAMT-TREMANT 1-10	0.37		HLC	HARQUA-GUNSIGHT 0-5	0.14	
98	PINAMT-TREMANT 1-10	0.37		PYD	PINAMT-TREMANT 1-10	0.20	
98	PINAMT-TREMANT 1-10	0.37		TB	TORRIFLUVENTS	0.40	
100	QUILOTOSA-VALVA-ROCK OC 20-65	0.40	20	CO	CHERIONI-ROCK OUTCROP	0.29	20
100	QUILOTOSA-VALVA-ROCK OC 20-65	0.40	20	RS	ROCK OUTCROP CHERIONI	0.40	65
102	RILLITO GL 1-8	0.40		CV	COOLIDGE-LAVEEN 0-3	0.39	
102	RILLITO GL 1-8	0.40		HLC	HARQUA-GUNSIGHT 0-5	0.14	
102	RILLITO GL 1-8	0.40		PRB	PERRYVILLE-RILLITO 0-3	0.28	
99	PINAMT-TREMANT 1-10 LOW PRECIP	0.37		96	PINALENO-TRES HERMANOS 1-10 LO	0.07	

NOTES:

1. This table represents identified problems with soil map units and XKSAT values at boundaries between soil maps in the project area. Soils shown should have the same class, %R and XKSAT north and south of the boundary.
2. In addition to the above, 4 lines were found incorrectly dividing single map units.
2. The last problem in the table has been resolved through a phone call with the SCS. The designation of 96 is in error on SCS map 43 and should be 99 on both maps. The SCS agreed that the four lines should be removed.
4. Based on discussions with FCD staff, we will use the soil classifications as shown on each map and the XKSAT values in the MCUHP2 program.

SUBBASIN SOIL DATA

BASIN	ID	A1	A2	A3	B1	B2	B3	C1	C2	C3	D1	E1	E2	E3	E4	E5	E6	F1	F2
ITEM	UNIT																		
SOIL GRP A	#	15	15	2	15	15	2	15	15	2	2	47	14	14	4	AGB	AGB	15	14
AREA	sm	0.001	0.004	0.381	0.293	0.369	0.048	0.081	0.546	0.367	0.087	0.327	0.007	0.028	0.156	0.027	0.040	0.248	0.010
XKSAT		0.540	0.540	0.410	0.540	0.540	0.410	0.540	0.540	0.410	0.410	0.110	1.040	1.040	0.580	0.400	0.400	0.540	1.040
ROCK OUTCROP	%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOIL GRP B	#	100	71	15	100	71	11	69	69	11	11	69	15	15	20	GM	GM	21	15
AREA	sm	0.504	0.924	0.108	0.196	0.105	0.040	0.005	0.233	0.010	0.296	0.094	0.347	0.351	0.063	0.001	0.019	0.051	0.919
XKSAT		0.400	0.360	0.540	0.400	0.360	0.940	0.630	0.630	0.940	0.940	0.630	0.540	0.540	0.190	0.290	0.290	0.380	0.540
ROCK OUTCROP	%	20	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOIL GRP C	#	123	107	20	107	107	15	92	92	15	20	92	107	20	102	GWD	GWD	47	19
AREA	sm	0.609	0.499	0.073	0.023	0.011	0.252	0.044	0.312	0.329	1.625	0.000	1.507	0.038	0.566	0.004	0.051	0.131	0.257
XKSAT		0.370	0.180	0.190	0.180	0.180	0.540	0.930	0.930	0.540	0.190	0.930	0.180	0.190	0.400	0.350	0.350	0.110	0.190
ROCK OUTCROP	%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOIL GRP D	#		123	55	123		20	98	107	20	102	98		71		HLC	HLC	52	21
AREA	sm		0.267	0.335	0.032		0.272	0.117	0.628	0.561	0.001	0.245		0.022		0.002	0.002	0.249	0.915
XKSAT			0.370	0.270	0.370		0.190	0.370	0.180	0.190	0.400	0.370		0.360		0.140	0.140	0.160	0.380
ROCK OUTCROP	%		0	0	0		0	0	0	0	0	0		0		0	0	20	0
SOIL GRP E	#			71			55	100	123	55		100		102		PRB	PRB	98	47
AREA	sm			2.526			0.351	3.329	0.123	0.114		0.038		1.285		0.016	0.069	0.449	0.138
XKSAT				0.360			0.270	0.400	0.370	0.270		0.400		0.400		0.280	0.280	0.370	0.110
ROCK OUTCROP	%			0			0	20	0	0		20		0		0	0	0	0
SOIL GRP F	#			98			71			71		107		107		4	71	100	52
AREA	sm			0.215			1.009			2.045		0.405		0.792		0.174	0.011	1.605	0.155
XKSAT				0.370			0.360			0.360		0.180		0.180		0.580	0.360	0.400	0.160
ROCK OUTCROP	%			0			0			0		0		0		0	0	20	20
SOIL GRP G	#									102						71	102	106	68
AREA	sm									0.086						0.538	0.020	0.104	0.012
XKSAT										0.400						0.360	0.400	0.180	0.630
ROCK OUTCROP	%									0						0	0	0	0
SOIL GRP H	#									107						102			91
AREA	sm									0.233						0.593	0.000		0.049
XKSAT										0.180						0.400			0.930
ROCK OUTCROP	%									0						0			0
SOIL GRP I	#																		98
AREA	sm															0.000	0.000		0.017
XKSAT																			0.370
ROCK OUTCROP	%																		0

SUBBASIN SOIL DATA

BASIN	ID	A1	A2	A3	B1	B2	B3	C1	C2	C3	D1	E1	E2	E3	E4	E5	E6	F1	F2
ITEM	UNIT																		
SOIL GRP J	#																		100
AREA	sm															0.000	0.000		0.165
XKSAT																			0.400
ROCK OUTCROP	%																		20
SOIL GRP K	#																		106
AREA	sm																		0.001
XKSAT																			0.180
ROCK OUTCROP	%																		0
SOIL GRP L	#																		107
AREA	sm																		0.243
XKSAT																			0.180
ROCK OUTCROP	%																		0
SOIL GRP M	#																		
AREA	sm																		
XKSAT																			
ROCK OUTCROP	%																		
SOIL GRP N	#																		
AREA	sm																		
XKSAT																			
ROCK OUTCROP	%																		
SOIL GRP O	#																		
AREA	sm																		
XKSAT																			
ROCK OUTCROP	%																		
SOIL GRP P	#																		
AREA	sm																		
XKSAT																			
ROCK OUTCROP	%																		
SOIL GRP Q	#																		
AREA	sm																		
XKSAT																			
ROCK OUTCROP	%																		
SOIL GRP R	#																		
AREA	sm																		
XKSAT																			
ROCK OUTCROP	%																		

SUBBASIN SOIL DATA

BASIN	ID	F3	F4	G1	H1	H2	J1	J2	K1	K2	K3	L1	L2	L3	M1	M2	M3	M4	M5
ITEM	UNIT																		
SOIL GRP A	#	14	4	AGB	14	4	14	4	49	14	AGB	47	4	AGB	47	70	48	AGB	AGB
AREA	sm	0.201	0.006	0.003	0.646	0.045	0.458	0.318	0.111	0.176	0.007	0.041	0.148	0.101	0.006	0.009	0.003	0.076	0.021
XKSAT		1.040	0.580	0.400	1.040	0.580	1.040	0.580	0.060	1.040	0.400	0.110	0.580	0.400	0.110	0.360	0.060	0.400	0.400
ROCK OUTCROP	%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOIL GRP B	#	15	14	GWD	15	14	15	14	98	15	GYD	48	14	AL	48	98	49	AL	AL
AREA	sm	0.132	0.161	0.332	0.155	0.568	0.877	0.102	0.126	0.091	0.011	0.178	0.701	0.671	0.428	0.007	0.054	0.623	0.303
XKSAT		0.540	1.040	0.350	0.540	1.040	0.540	1.040	0.370	0.540	0.260	0.060	1.040	0.400	0.060	0.370	0.060	0.400	0.400
ROCK OUTCROP	%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOIL GRP C	#	91	102	PRB	91	15	68	15	100	47	PRB	49	15	AM	49	100	70	AM	AM
AREA	sm	0.040	2.086	0.420	0.260	0.613	0.270	1.682	1.304	0.290	0.003	0.127	0.002	0.040	0.048	1.668	0.217	1.629	0.066
XKSAT		0.930	0.400	0.280	0.930	0.540	0.630	0.540	0.400	0.110	0.280	0.060	0.540	0.390	0.060	0.400	0.360	0.390	0.390
ROCK OUTCROP	%	0	0	0	0	0	0	0	20	0	0	0	0	0	0	20	0	0	0
SOIL GRP D	#			RpE		91	91	91		49	4	70	19	CV	70		91	CV	CV
AREA	sm			0.012		0.007	0.103	0.016		0.300	0.249	0.499	0.749	0.446	0.004		0.009	0.404	0.275
XKSAT				0.290		0.930	0.930	0.930		0.060	0.580	0.360	0.190	0.390	0.360		0.930	0.390	0.390
ROCK OUTCROP	%			0		0	0	0		0	0	0	0	0	0		0	0	0
SOIL GRP E	#			20		102	106	99		52	14	98	29	GM	91		98	GYD	PRB
AREA	sm			0.399		0.190	0.068	0.091		0.096	0.590	0.031	0.250	0.437	0.001		0.015	0.311	0.028
XKSAT				0.190		0.400	0.180	0.370		0.160	1.040	0.370	0.340	0.290	0.930		0.370	0.260	0.280
ROCK OUTCROP	%			0		0	0	0		20	0	0	0	0	0		0	0	0
SOIL GRP F	#			71				102		68	71	100	30	GN	98		100	PRB	2
AREA	sm			0.078				1.452		0.295	0.024	2.604	0.267	0.020	0.030		0.239	0.008	0.023
XKSAT				0.360				0.400		0.630	0.360	0.400	0.340	0.250	0.370		0.400	0.280	0.410
ROCK OUTCROP	%			0				0		0	0	20	0	0	0		20	0	0
SOIL GRP G	#			102						70	91		47	GYD	100			2	102
AREA	sm			0.375						0.868	0.001		0.356	0.005	2.800			0.263	0.048
XKSAT				0.400						0.360	0.930		0.110	0.260	0.400			0.410	0.400
ROCK OUTCROP	%			0						0	0		0	0	20			0	0
SOIL GRP H	#									91	99		48	HLC				3	
AREA	sm									0.204	0.123		0.052	0.044				0.312	
XKSAT										0.930	0.370		0.060	0.140				0.580	
ROCK OUTCROP	%									0	0		0	0				0	
SOIL GRP I	#									98	102		70	PRB				4	
AREA	sm									0.011	0.645		2.522	0.946				0.151	
XKSAT										0.370	0.400		0.360	0.280				0.580	
ROCK OUTCROP	%									0	0		0	0				0	

SUBBASIN SOIL DATA

BASIN	ID	F3	F4	G1	H1	H2	J1	J2	K1	K2	K3	L1	L2	L3	M1	M2	M3	M4	M5
ITEM	UNIT																		
SOIL GRP J	#									100			91	1				19	
AREA	sm									0.022			0.255	0.376				0.150	
XKSAT										0.400			0.930	0.410				0.190	
ROCK OUTCROP	%									20			0	0				0	
SOIL GRP K	#									106			98	2				29	
AREA	sm									0.026			0.356	0.440				1.368	
XKSAT										0.180			0.370	0.410				0.340	
ROCK OUTCROP	%									0			0	0				0	
SOIL GRP L	#									110			102	4				30	
AREA	sm									0.037			1.630	0.197				0.037	
XKSAT										0.130			0.400	0.580				0.340	
ROCK OUTCROP	%									0			0	0				0	
SOIL GRP M	#												114	14				70	
AREA	sm												0.029	0.197				1.777	
XKSAT										0.000			0.390	1.040				0.360	
ROCK OUTCROP	%												0	0				0	
SOIL GRP N	#													30				91	
AREA	sm													0.089				0.530	
XKSAT														0.340				0.930	
ROCK OUTCROP	%													0				0	
SOIL GRP O	#													71				98	
AREA	sm													0.018				0.074	
XKSAT														0.360				0.370	
ROCK OUTCROP	%													0				0	
SOIL GRP P	#													99				100	
AREA	sm													0.380				0.256	
XKSAT														0.370				0.400	
ROCK OUTCROP	%													0				20	
SOIL GRP Q	#													102				102	
AREA	sm													2.272				0.215	
XKSAT														0.400				0.400	
ROCK OUTCROP	%													0				0	
SOIL GRP R	#													114					
AREA	sm													0.172					
XKSAT														0.390					
ROCK OUTCROP	%													0					

SUBBASIN SOIL DATA

BASIN	ID	N1	N2	P1	P2	P3	Q1	Q2	R1	S1	T1	U1	V1	W1	W2	X1	Y1
ITEM	UNIT																
SOIL GRP A	#	3	AGB	2	2	AGB	3	AGB	AGB	AL	AGB	AGB	AGB	3	AGB	AGB	3
AREA	sm	0.038	0.060	0.000	0.183	0.226	0.012	0.388	0.048	0.019	0.050	0.022	0.015	0.047	0.683	0.036	0.007
XKSAT		0.580	0.400	0.410	0.410	0.400	0.580	0.400	0.400	0.400	0.400	0.400	0.400	0.580	0.400	0.400	0.580
ROCK OUTCROP	%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOIL GRP B	#	70	AL	98	19	AL	29	CO	CO	CO	AL	CO	RS	98	GYD	3	29
AREA	sm	0.391	0.527	0.224	0.037	0.095	0.045	0.408	0.086	0.515	0.050	0.125	0.015	0.895	0.245	0.041	0.002
XKSAT		0.360	0.400	0.370	0.190	0.400	0.340	0.290	0.290	0.290	0.400	0.290	0.400	0.370	0.260	0.580	0.340
ROCK OUTCROP	%	0	0	0	0	0	0	20	20	20	0	20	65	0	0	0	0
SOIL GRP C	#	91	AM	100	70	AM	70	GWD	GWD	GWD	CO	GYD	TB	100	HLC	98	98
AREA	sm	0.004	0.184	0.145	0.355	0.959	0.310	0.227	0.163	0.782	0.096	0.000	0.139	3.007	0.155	0.219	0.234
XKSAT		0.930	0.390	0.400	0.360	0.390	0.360	0.350	0.350	0.350	0.290	0.260	0.400	0.400	0.140	0.370	0.370
ROCK OUTCROP	%	0	0	20	0	0	0	0	0	0	20	0	0	20	0	0	0
SOIL GRP D	#	98	CV		98	CO	98	GYD		GYD	GWD	PYD	TSC		PYD	100	100
AREA	sm	0.428	0.024		0.191	0.121	0.058	0.001		0.023	0.108	0.546	0.002		0.013	0.476	0.330
XKSAT		0.370	0.390		0.370	0.290	0.370	0.260		0.260	0.350	0.200	0.140		0.200	0.400	0.400
ROCK OUTCROP	%	0	0		0	20	0	0		0	0	0	0		0	20	20
SOIL GRP E	#	100	GYD		100	CV	100	HLC		TSC	GYD	RS	98		TB		
AREA	sm	0.603	0.995		0.661	0.001	0.663	0.017		0.122	0.138	0.127	0.109		0.240		
XKSAT		0.400	0.260		0.400	0.390	0.400	0.140		0.140	0.260	0.400	0.370		0.400		
ROCK OUTCROP	%	20	0		20	0	20	0		0	0	65	0		0		
SOIL GRP F	#		2			GWD		PT			PYD	TB	100		3		
AREA	sm		1.046			0.222		0.022			0.955	0.088	0.419		0.441		
XKSAT			0.410			0.350		0.400			0.200	0.400	0.400		0.580		
ROCK OUTCROP	%		0			0		0			0	0	20		0		
SOIL GRP G	#		3			GYD		PWB			RS	TSC			98		
AREA	sm		0.498			0.206		0.030			0.215	0.437			0.454		
XKSAT			0.580			0.260		0.380			0.400	0.140			0.370		
ROCK OUTCROP	%		0			0		0			65	0			0		
SOIL GRP H	#		29			HLC		PYD			TSC	98			100		
AREA	sm		0.190			0.078		0.041			0.321	0.019			0.459		
XKSAT			0.340			0.140		0.200			0.140	0.370			0.400		
ROCK OUTCROP	%		0			0		0			0	0			20		
SOIL GRP I	#		70			PT		RS			70	100					
AREA	sm		0.307			0.035		0.090			0.193	0.029					
XKSAT			0.360			0.400		0.400			0.360	0.400					
ROCK OUTCROP	%		0			0		65			0	20					

SUBBASIN SOIL DATA

BASIN	ID	N1	N2	P1	P2	P3	Q1	Q2	R1	S1	T1	U1	V1	W1	W2	X1	Y1
ITEM	UNIT																
SOIL GRP J	#		98			PWB		3			98						
AREA	sm		0.130			0.063		0.041			0.103						
XKSAT			0.370			0.380		0.580			0.370						
ROCK OUTCROP	%		0			0		0			0						
SOIL GRP K	#		100			RS		29			100						
AREA	sm		0.174			0.260		0.015			0.736						
XKSAT			0.400			0.400		0.340			0.400						
ROCK OUTCROP	%		20			65		0			20						
SOIL GRP L	#					2		98									
AREA	sm					0.225		0.011									
XKSAT						0.410		0.370									
ROCK OUTCROP	%					0		0									
SOIL GRP M	#					3		100									
AREA	sm					0.048		0.003									
XKSAT						0.580		0.400									
ROCK OUTCROP	%					0		20									
SOIL GRP N	#					19											
AREA	sm					0.054											
XKSAT						0.190											
ROCK OUTCROP	%					0											
SOIL GRP O	#					29											
AREA	sm					0.060											
XKSAT						0.340											
ROCK OUTCROP	%					0											
SOIL GRP P	#					70											
AREA	sm					0.053											
XKSAT						0.360											
ROCK OUTCROP	%					0											
SOIL GRP Q	#					100											
AREA	sm					0.058											
XKSAT						0.400											
ROCK OUTCROP	%					20											
SOIL GRP R	#																
AREA	sm																
XKSAT																	
ROCK OUTCROP	%																

UNIT HYDROGRAPH SUMMARY

BASIN ID	AREA TOTAL	DESERT AREA	VEG COVER	VLDR AREA	VEG COVER	VEG COV TOTAL	XKSAT	XKSAT ROUND	XKSAT ADJ	PSIF	DTHETA	IA	RTIMP
units	sm	sm	%	sm	%	%	"/hr	"/hr	"/hr	"	"	"	%
A1	1.114	1.114	12	0.000	0	12	0.383	0.38	0.388	4.19	0.35	0.268	9.04
A2	1.694	1.694	7	0.000	0	7	0.295	0.30	0.300	3.77	0.35	0.186	0.00
A3	3.637	3.637	14	0.000	0	14	0.356	0.36	0.376	4.08	0.35	0.170	0.00
B1	0.545	0.545	11	0.000	0	11	0.453	0.45	0.454	4.18	0.35	0.233	7.20
B2	0.485	0.485	9	0.000	0	9	0.482	0.48	0.480	4.11	0.35	0.176	0.00
B3	1.973	1.973	18	0.000	0	18	0.337	0.34	0.371	3.98	0.35	0.170	0.00
C1	3.575	3.575	10	0.000	0	10	0.406	0.41	0.410	4.28	0.35	0.327	18.62
C2	1.842	1.842	9	0.000	0	9	0.405	0.40	0.400	4.3	0.35	0.180	0.00
C3	3.745	3.745	15	0.000	0	15	0.328	0.33	0.349	3.92	0.35	0.168	0.00
D1	2.008	2.008	20	0.000	0	20	0.249	0.25	0.279	3.5	0.35	0.169	0.00
E1	1.109	1.109	10	0.000	0	10	0.209	0.21	0.211	4.74	0.37	0.220	0.69
E2	1.860	1.860	10	0.000	0	10	0.222	0.22	0.220	4.43	0.37	0.182	0.00
E3	2.515	2.515	10	0.000	0	10	0.324	0.32	0.320	3.87	0.35	0.166	0.00
E4	0.785	0.691	12	0.094	15	13	0.406	0.41	0.421	4.28	0.34	0.175	0.00
E5	1.355	1.154	16	0.201	15	16	0.400	0.40	0.425	4.3	0.34	0.179	0.00
E6	0.213	0.203	16	0.010	15	16	0.330	0.33	0.350	3.92	0.35	0.166	0.00
F1	2.837	2.837	10	0.000	0	10	0.342	0.34	0.340	3.98	0.35	0.285	13.07
F2	2.881	2.881	10	0.000	0	10	0.346	0.35	0.350	4.03	0.35	0.200	2.22
F3	0.373	0.373	11	0.000	0	11	0.815	0.82	0.825	3.3	0.35	0.169	0.00
F4	2.253	2.253	11	0.000	0	11	0.429	0.43	0.435	4.23	0.35	0.171	0.00
G1	1.619	1.619	7	0.000	0	7	0.293	0.29	0.290	3.71	0.35	0.161	0.00
H1	1.061	1.061	11	0.000	0	11	0.919	0.92	0.928	3.07	0.35	0.170	0.00
H2	1.423	1.423	11	0.000	0	11	0.677	0.68	0.689	3.64	0.35	0.165	0.00
J1	1.775	1.775	10	0.000	0	10	0.648	0.65	0.652	3.71	0.35	0.175	0.00
J2	3.660	3.609	14	0.051	15	14	0.488	0.49	0.513	4.09	0.35	0.165	0.00
K1	1.541	1.541	13	0.000	0	13	0.347	0.35	0.361	4.03	0.35	0.367	16.92
K2	2.417	2.417	11	0.000	0	11	0.301	0.30	0.302	3.77	0.35	0.192	0.98
K3	1.653	1.653	11	0.000	0	11	0.589	0.59	0.597	3.85	0.35	0.164	0.00
L1	3.481	3.481	13	0.000	0	13	0.328	0.33	0.340	3.92	0.35	0.279	14.96
L2	7.315	7.315	12	0.000	0	12	0.371	0.37	0.377	4.14	0.35	0.181	0.00
L3	6.848	3.455	15	3.393	15	15	0.382	0.38	0.402	4.19	0.30	0.234	0.00
M1	3.317	3.317	13	0.000	0	13	0.304	0.30	0.310	3.77	0.35	0.255	16.88
M2	1.684	1.684	10	0.000	0	10	0.400	0.40	0.400	4.3	0.35	0.264	19.81
M3	0.536	0.536	14	0.000	0	14	0.318	0.32	0.335	3.87	0.35	0.287	8.91
M4	8.182	8.182	15	0.000	0	15	0.395	0.40	0.423	4.3	0.35	0.173	0.63
M5	0.763	0.693	15	0.070	15	15	0.391	0.39	0.412	4.24	0.34	0.177	0.00
N1	1.464	1.464	10	0.000	0	10	0.385	0.38	0.380	4.19	0.35	0.283	8.24
N2	4.133	4.133	15	0.000	0	15	0.372	0.37	0.391	4.14	0.35	0.178	0.84
P1	0.368	0.368	12	0.000	0	12	0.381	0.38	0.387	4.19	0.35	0.391	7.85
P2	1.428	1.428	14	0.000	0	14	0.379	0.38	0.395	4.19	0.35	0.271	9.26
P3	2.763	2.748	16	0.015	15	16	0.359	0.36	0.383	4.08	0.35	0.188	7.41
Q1	1.089	1.089	14	0.000	0	14	0.386	0.39	0.408	4.24	0.35	0.284	12.18
Q2	1.293	1.293	14	0.000	0	14	0.343	0.34	0.355	3.98	0.35	0.187	10.89
R1	0.298	0.298	13	0.000	0	13	0.339	0.34	0.353	3.98	0.35	0.231	5.79
S1	1.462	1.462	12	0.000	0	12	0.303	0.30	0.307	3.77	0.35	0.190	7.04
T1	2.965	2.965	16	0.000	0	16	0.273	0.27	0.286	3.61	0.35	0.237	10.32
U1	1.393	1.393	13	0.000	0	13	0.213	0.21	0.216	4.74	0.37	0.258	8.15
V1	0.699	0.699	14	0.000	0	14	0.394	0.39	0.407	4.24	0.35	0.261	13.41
W1	3.949	3.949	12	0.000	0	12	0.395	0.39	0.398	4.24	0.35	0.299	15.23
W2	2.690	2.640	14	0.050	15	14	0.378	0.38	0.396	4.19	0.35	0.271	3.40
X1	0.772	0.772	17	0.000	0	17	0.399	0.40	0.431	4.30	0.35	0.281	12.33
Y1	0.574	0.574	17	0.000	0	17	0.389	0.39	0.419	4.24	0.35	0.375	11.51

EXPLANATIONS AND COMMENTS FOR PRECEEDING TABLES

ITEM	UNIT	EQUATIONS OR SOURCE

WATERSHED SGRAPH AND INPUT DATA

ELEV MAX	ft	max elev in subbasin from contour map
ELEV MIN	ft	elev at subbasin outlet from contour map
ELEV DIFF	ft	computed elev difference = elev max - elev min
LENGTH	ft	digitized length of longest water course in basin
LGTH>CENTROID	ft	stream length from outlet to opposite the centroid
SLOPE	'/mi	computed drainage slope = elev diff / length
AREA	sm	area of digitized basin from Autocad
AREA	ac	computed area in acres = area * 640
S-Graph		MTN for upper basins, VAL for others
Kn		selected using similar basin comparisons
LAG	hr	computed using S-LAG program

SUBBASIN SOIL DATA

SOIL GRP A	#	SCS soil survey map
AREA	sm	from Autocad digitized subbasin
XKSAT		soil table for AGUILA & CENTRAL
ROCK OUTCROP	%	soil table for AGUILA & CENTRAL

UNIT HYDROGRAPH SUMMARY

AREA TOT	sm	sum of soil areas = total area
DESERT AREA	sm	from topo map DRY IA=.15 to .35 by slope
VEG COVER	%	weighted %
URBAN AREA	sm	from zoning map DRY IA= .25
VEG COVER	%	estimated %
V.L.D.R AREA	sm	from zoning map NORMAL IA= .30 IMP= 15%
VEG COVER	%	estimated %
AREA VEG COVER	%	weighted %
XKSAT	"/hr	partial sum of soilarea*log(xksat)
XKSAT ROUNDED	"/hr	weighted XKSAT=10^sum of subarea/area*log(XKSAT)
XKSAT ADJ	"/hr	Rounded to 2 places to match FCD
PSIF	"	adjusted for vegetative cover
DTHETA	"	lookup table then calculated by SGRAPH formula
IA	"	lookup; SGph calc; wgt by use %; dry=.35, norm=.25
RTIMP	%	weighted (desert=.15-.35 by slope; open=.25; VLDR=.3)

EXPLANATION FOR MCUHP2 INPUT DATA FILE

inst-uh.wqu
930712jb

DATA	UNITS	EXPLANATION
UH6.OUT		FILENAME.EXT FOR OUTPUT FROM MCUHP2
WTW 6HR		PROJECT TITLE, NAME, DATE, STORM TYPE
1	1/2	1=SINGLE BASIN, 2= STORM SIZE OF EACH BASIN
111	sq mi	STORM SIZE
1	1/2/3	1=6HR MC DISTRIBUTION, 2= 2HR MC, 3= 24HR SCS II
3.24	in	POINT RAINFALL
0.845	ratio	AREAL REDUCTION COEFF FOR SCS DISTRIBUTION ONLY
A1		BASIN NAME
1.114	sq mi	BASIN AREA
1.96	mi	WATER PATH LENGTH
0.95	mi	LENGTH TO CENTROID
414	ft/mi	SLOPE OF WATER COURSE
0.050		Kn
1	1/2	1=GREEN/AMP, 2= UNIFORM SOIL LOSS
0.268	in	IA
0.350		DTHETA
4.19	in	PSIF
0.388	in/hr	XKSAT
9	%	BTIMP
2	1/2	1=VALLEY, 2=MOUNTAIN
29	min	LAG TIME
5	min	TIME STEP (FIRST BASIN ONLY)
1	1/2	1=CONTINUE, 2=STOP
A2		REPEAT FOR EACH BASIN

MCUHP2 INPUT		FILE		PROJECT, DATE, INTERVAL, STORM						SIZE	AREA	TYPE	RAIN	REDUCTI
DATA		UH6.OUT		WTW FIS 5-JUNE-93 -5 MIN INT - 6 HR STO						1	111	1	3.24	
		UH24.OUT		WTW FIS 7-JULY-93 -5 MIN INT -24 HR STO						1	111	3	4.20	0.845
ITEM	UNITS													
BASIN		A1	A2	A3	B1	B2	B3	C1	C2	C3	D1	E1	E2	E3
AREA	SqMi	1.114	1.694	3.637	0.545	0.485	1.973	3.575	1.842	3.745	2.008	1.109	1.860	2.515
LENGTH	Mi	1.96	2.68	3.31	2.02	1.97	3.25	3.54	3.36	4.03	1.92	1.77	2.25	3.46
CENTR	Mi	0.95	1.18	1.88	1.07	0.86	1.42	1.88	1.43	2.17	0.87	0.94	0.81	1.97
SLOPE	Ft/Mi	414	127	69	289	91	71	619	106	63	65	244	113	57
Kn		0.050	0.060	0.045	0.050	0.060	0.045	0.050	0.060	0.050	0.045	0.055	0.060	0.050
GR/AMP	1	1	1	1	1	1	1	1	1	1	1	1	1	1
IA	In	0.268	0.186	0.170	0.233	0.176	0.170	0.327	0.180	0.168	0.169	0.220	0.182	0.166
DTHETA		0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.370	0.365	0.350
PSIF	In	4.19	3.77	4.08	4.18	4.11	3.98	4.28	4.30	3.92	3.50	4.74	4.43	3.87
XKSAT	In/Hr	0.388	0.300	0.376	0.454	0.480	0.371	0.410	0.400	0.349	0.279	0.211	0.220	0.320
BTIMP	%	9	0	0	7	0	0	19	0	0	0	1	0	0
VAL/MTN	1/2	2	1	1	2	1	1	2	1	1	1	2	1	1
LAG	Min	29	53	58	33	45	52	44	65	75	36	34	44	69
STEP	Min	5												
CONT	1	1	1	1	1	1	1	1	1	1	1	1	1	1

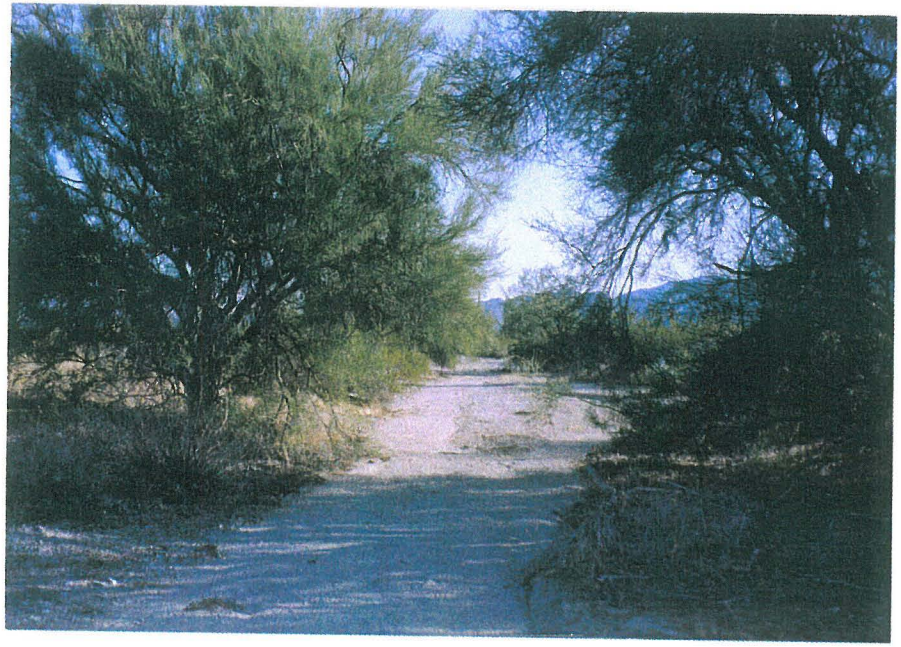
BASIN		E4	E5	E6	F1	F2	F3	F4	G1	H1	H2	J1	J2	K1
AREA	SqMi	0.785	1.355	0.213	2.837	2.881	0.373	2.253	1.619	1.061	1.423	1.775	3.660	1.541
LENGTH	Mi	2.75	2.87	0.51	3.79	3.47	1.27	2.71	2.26	2.16	3.75	3.35	5.39	3.07
CENTR	Mi	1.39	1.58	0.50	1.51	1.45	0.64	0.93	0.80	1.01	2.18	1.39	3.13	1.75
SLOPE	Ft/Mi	28	26	34	472	176	66	72	39	70	53	88	45	759
Kn		0.050	0.050	0.050	0.050	0.050	0.060	0.050	0.045	0.060	0.050	0.060	0.050	0.050
GR/AMP	1	1	1	1	1	1	1	1	1	1	1	1	1	1
IA	In	0.175	0.179	0.166	0.285	0.200	0.169	0.171	0.161	0.170	0.165	0.175	0.165	0.367
DTHETA		0.338	0.335	0.345	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.349	0.350
PSIF	In	4.28	4.30	3.92	3.98	4.03	3.30	4.23	3.71	3.07	3.64	3.71	4.09	4.03
XKSAT	In/Hr	0.421	0.425	0.350	0.340	0.350	0.825	0.435	0.290	0.928	0.689	0.652	0.513	0.361
BTIMP	%	0	0	0	13	2	0	0	0	0	0	0	0	17
VAL/MTN	1/2	1	1	1	2	2	1	1	1	1	1	1	1	2
LAG	Min	64	69	22	43	50	36	45	40	52	75	66	102	39
CONT	1	1	1	1	1	1	1	1	1	1	1	1	1	1

BASIN		K2	K3	L1	L2	L3	M1	M2	M3	M4	M5	N1	N2	P1
AREA	SqMi	2.417	1.653	3.481	7.315	6.848	3.317	1.684	0.536	8.182	0.763	1.464	4.133	0.369
LENGTH	Mi	5.39	4.52	3.95	5.83	3.28	4.17	3.85	1.23	6.89	2.08	2.04	5.02	0.79
CENTR	Mi	3.83	2.37	1.64	2.66	1.60	2.58	1.87	0.65	2.59	0.74	0.81	2.37	0.49
SLOPE	Ft/Mi	146	48	450	107	69	368	398	478	80	51	465	97	844
Kn		0.060	0.050	0.050	0.065	0.055	0.050	0.050	0.050	0.065	0.055	0.050	0.065	0.050
GR/AMP	1	1	1	1	1	1	1	1	1	1	1	1	1	1
IA	In	0.192	0.164	0.279	0.181	0.234	0.255	0.264	0.287	0.173	0.177	0.283	0.178	0.391
DTHETA		0.350	0.350	0.350	0.350	0.300	0.350	0.350	0.350	0.350	0.341	0.350	0.350	0.350
PSIF	In	3.77	3.85	3.92	4.14	4.19	3.77	4.30	3.87	4.30	4.24	4.19	4.14	4.19
XKSAT	In/Hr	0.302	0.597	0.340	0.377	0.402	0.310	0.400	0.335	0.423	0.412	0.380	0.391	0.387
BTIMP	%	1	0	15	0	0	17	20	9	1	0	8	1	8
VAL/MTN	1/2	1	1	2	1	1	2	2	2	1	1	2	1	2
LAG	Min	106	85	46	109	67	58	49	21	122	44	27	101	14
CONT	1	1	1	1	1	1	1	1	1	1	1	1	1	1

BASIN		P2	P3	Q1	Q2	R1	S1	T1	U1	V1	W1	W2	X1	Y1
AREA	SqMi	1.428	2.763	1.089	1.293	0.298	1.462	2.965	1.393	0.699	3.949	2.690	0.772	0.574
LENGTH	Mi	2.53	3.68	2.23	2.72	0.89	2.36	3.93	2.09	2.65	3.27	2.30	2.30	1.34
CENTR	Mi	1.97	1.22	1.04	1.43	0.39	0.67	1.62	1.12	1.59	1.64	1.12	1.43	0.48
SLOPE	Ft/Mi	425	129	471	128	285	140	304	377	389	522	422	457	789
Kn		0.050	0.060	0.050	0.060	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
GR/AMP	1	1	1	1	1	1	1	1	1	1	1	1	1	1
IA	In	0.271	0.188	0.284	0.187	0.231	0.190	0.237	0.258	0.261	0.299	0.271	0.281	0.375
DTHETA		0.350	0.349	0.350	0.350	0.350	0.350	0.350	0.370	0.350	0.350	0.348	0.350	0.350
PSIF	In	4.19	4.08	4.24	3.98	3.98	3.77	3.61	4.74	4.24	4.24	4.19	4.30	4.24
XKSAT	In/Hr	0.395	0.383	0.408	0.355	0.353	0.307	0.286	0.216	0.407	0.398	0.396	0.431	0.419
BTIMP	%	9	7	12	11	6	7	10	8	13	15	3	12	12
VAL/MTN	1/2	2	1	2	1	2	2	2	2	2	2	2	2	2
LAG	Min	42	61	31	58	16	33	49	32	40	42	33	35	17
CONT	1	1	1	1	1	1	1	1	1	1	1	1	1	2

BASIN A2

BASIN A3



BASIN B2

BASIN B3

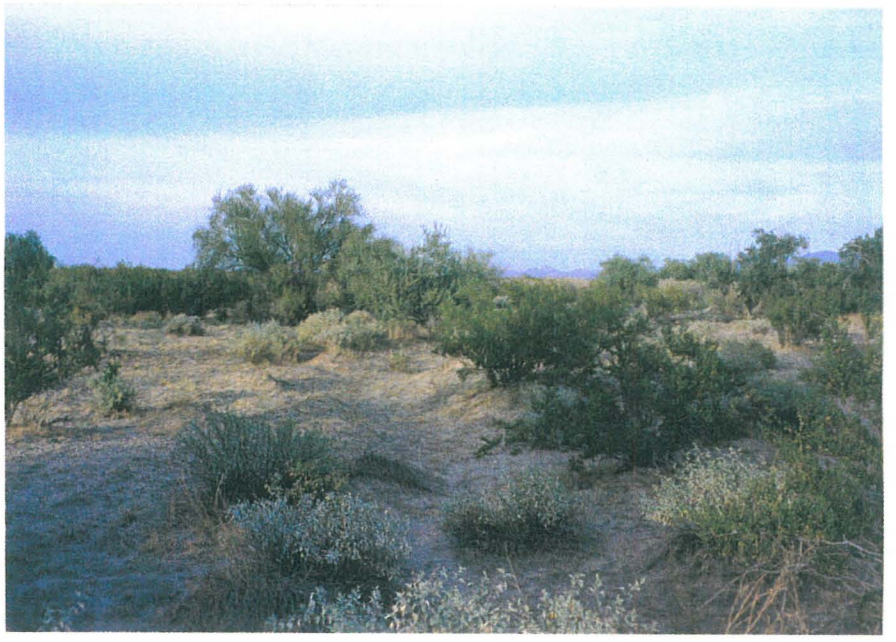
BASIN C2

BASIN C3

BASIN E2

BASIN F2

BASIN F3



BASIN J2

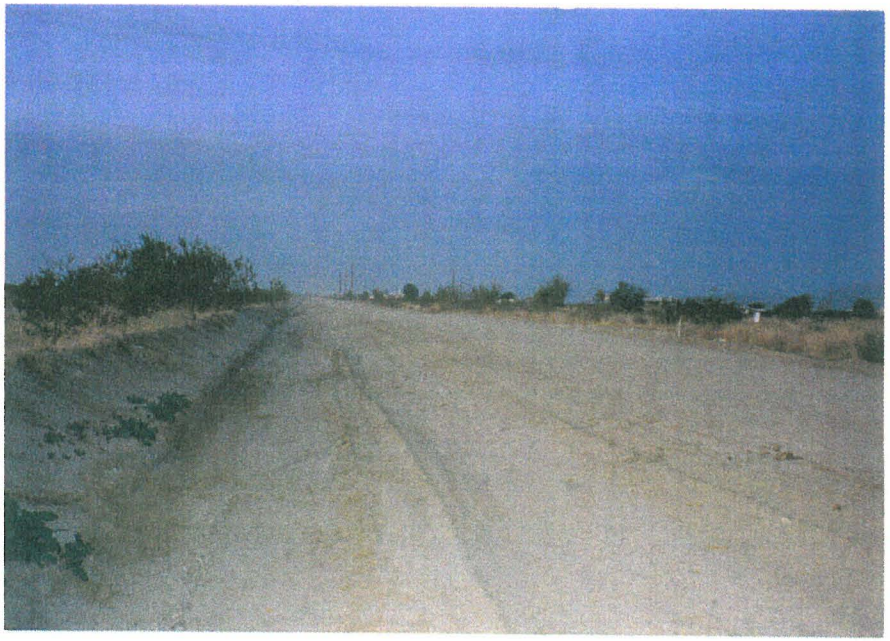
BASIN K2

BASIN K3

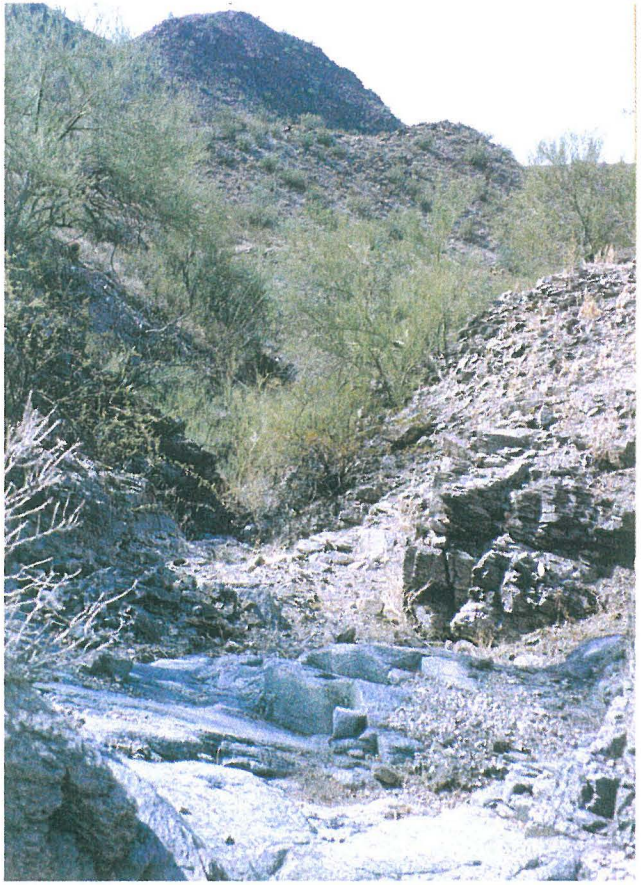
BASIN L2

BASIN L3

BASIN M4



BASIN M5



BASIN N1

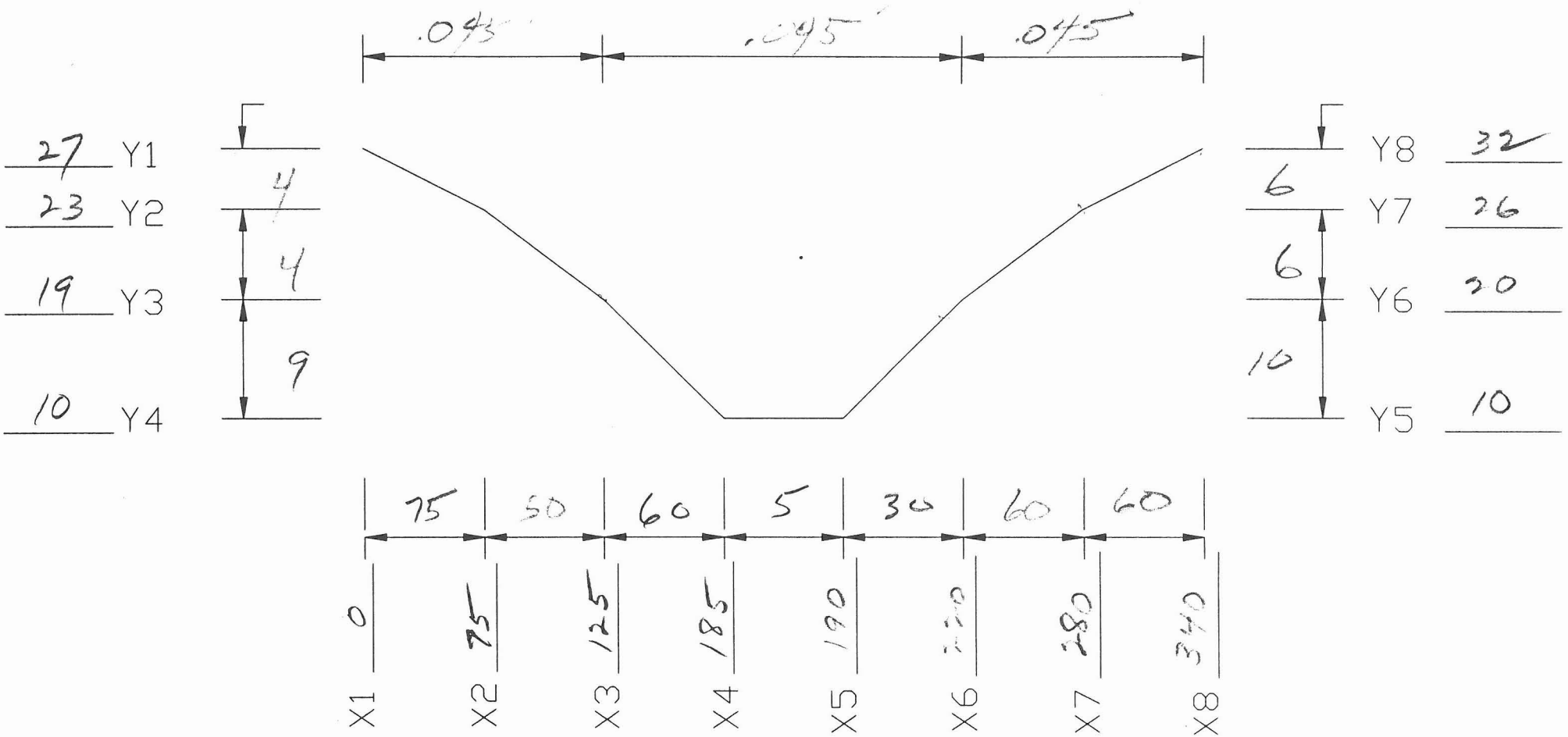
BASIN N2

BASIN P2

BASIN P3

BASIN Q2

BASIN W2

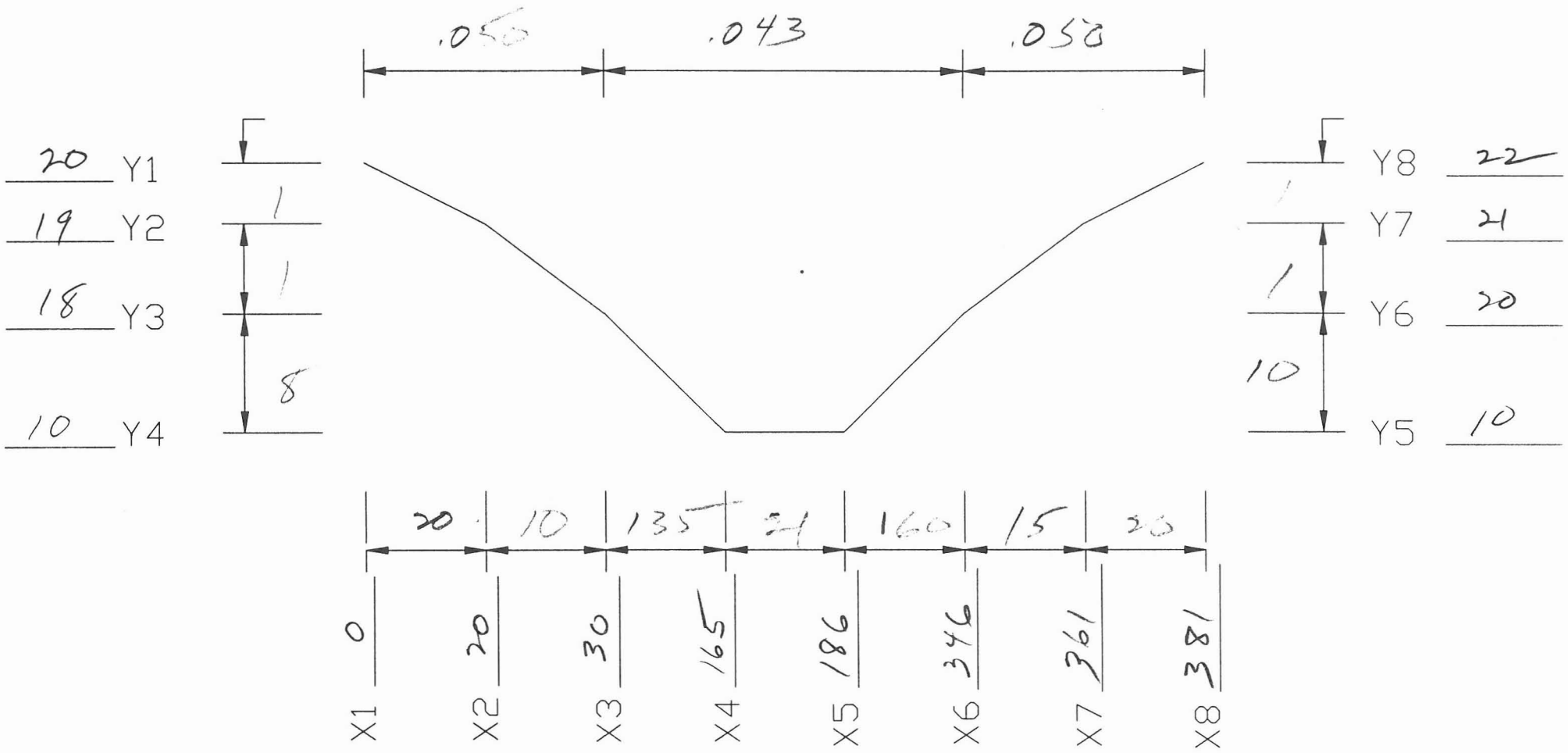


33-34-59 N
112-40-41 W
→ 25°
#14

SECTION A2

LOOKING DOWNSTREAM

J



33-34-37N
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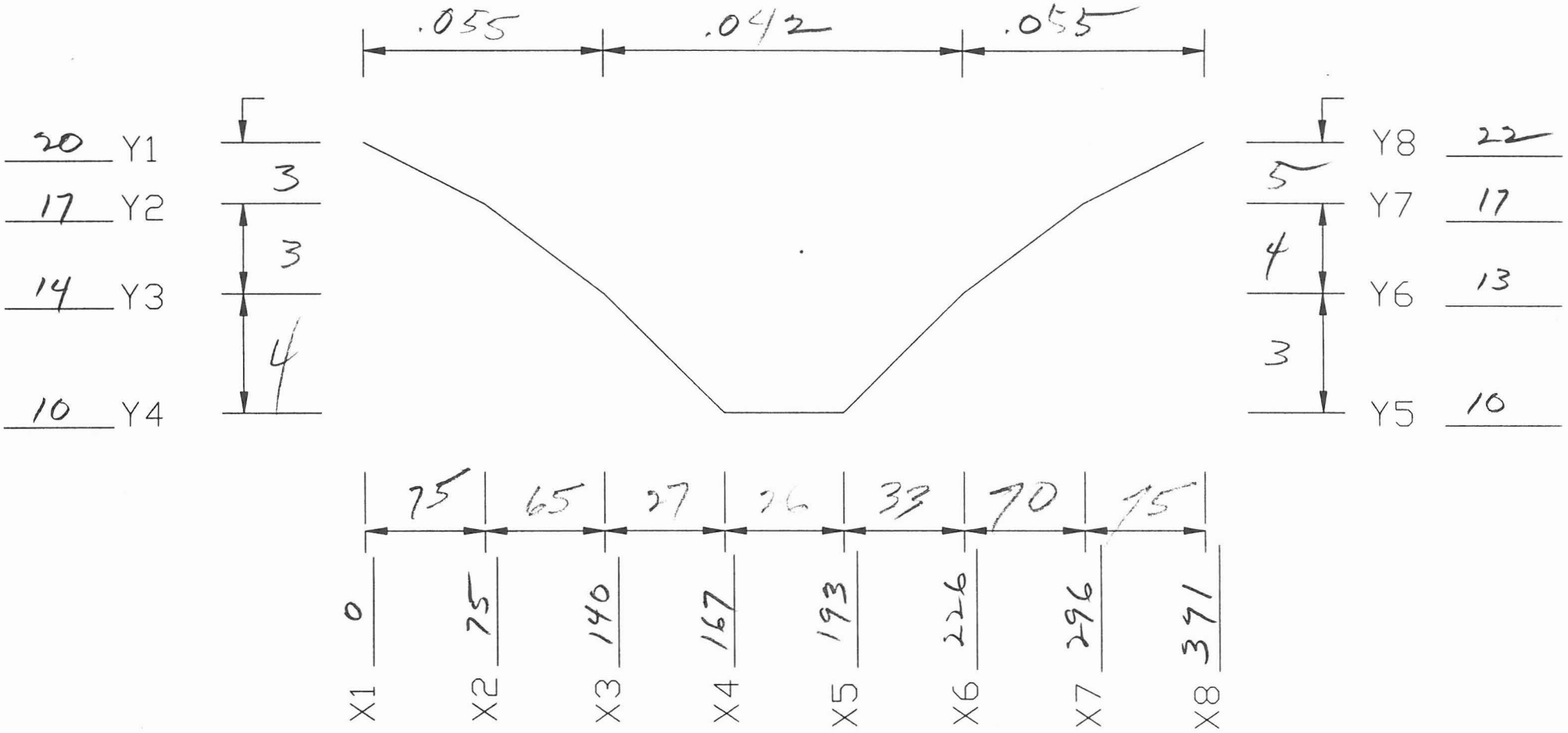
#18

SECTION A3

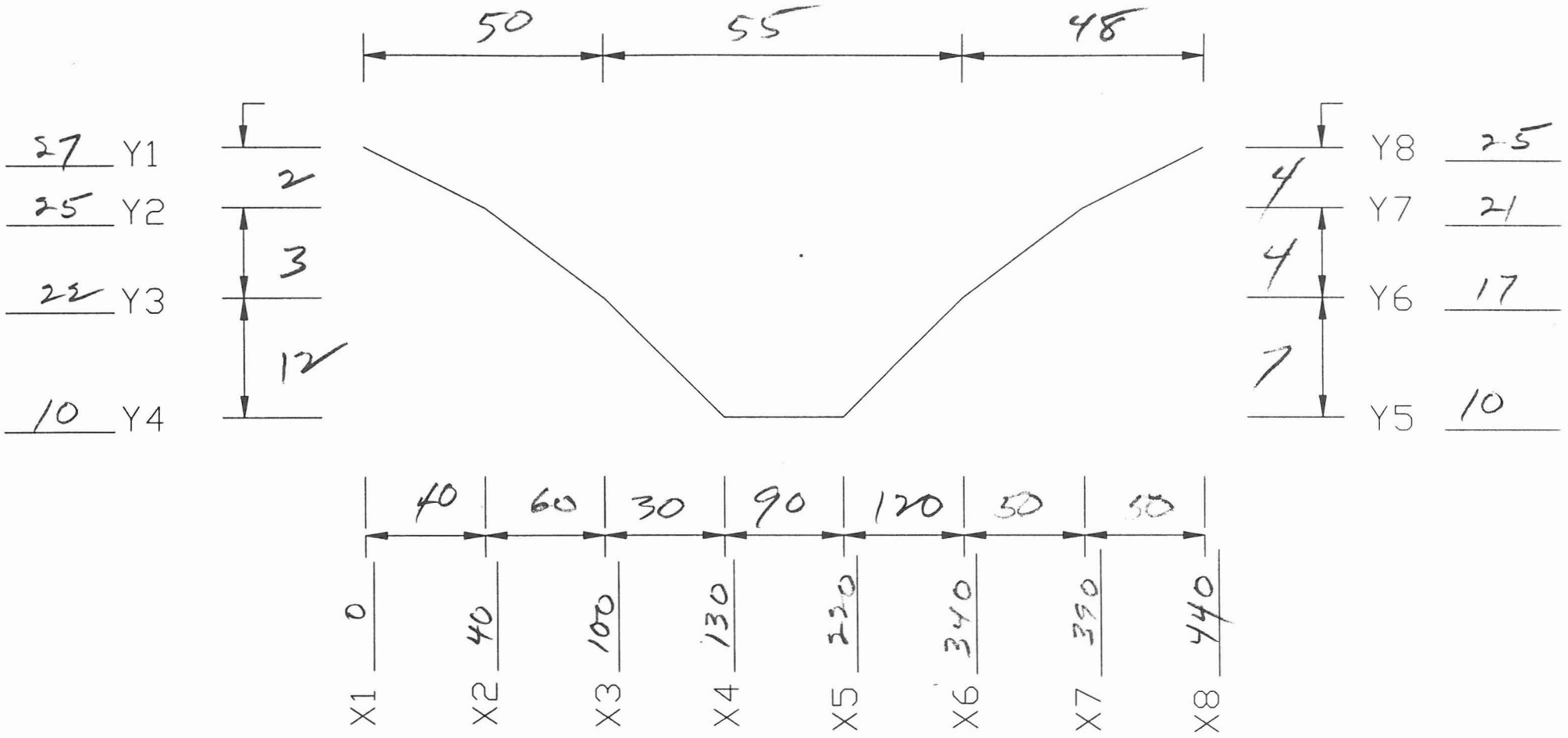
LOOKING DOWNSTREAM



33-34-44N
112-40-40W
→ 46°
15

SECTION B2

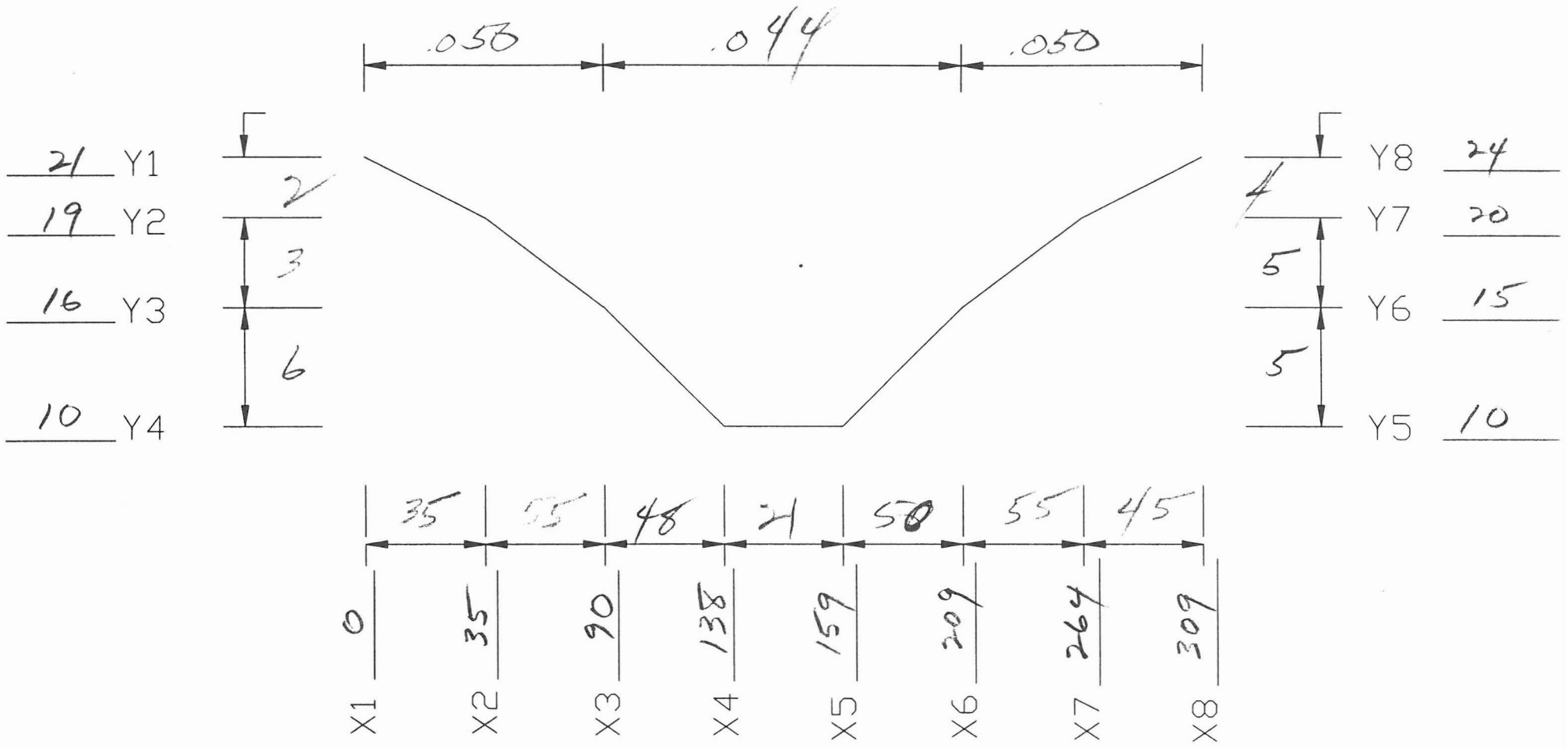
LOOKING DOWNSTREAM



33-34-15N
112-42-17W
→ 57°
#19

SECTION B3

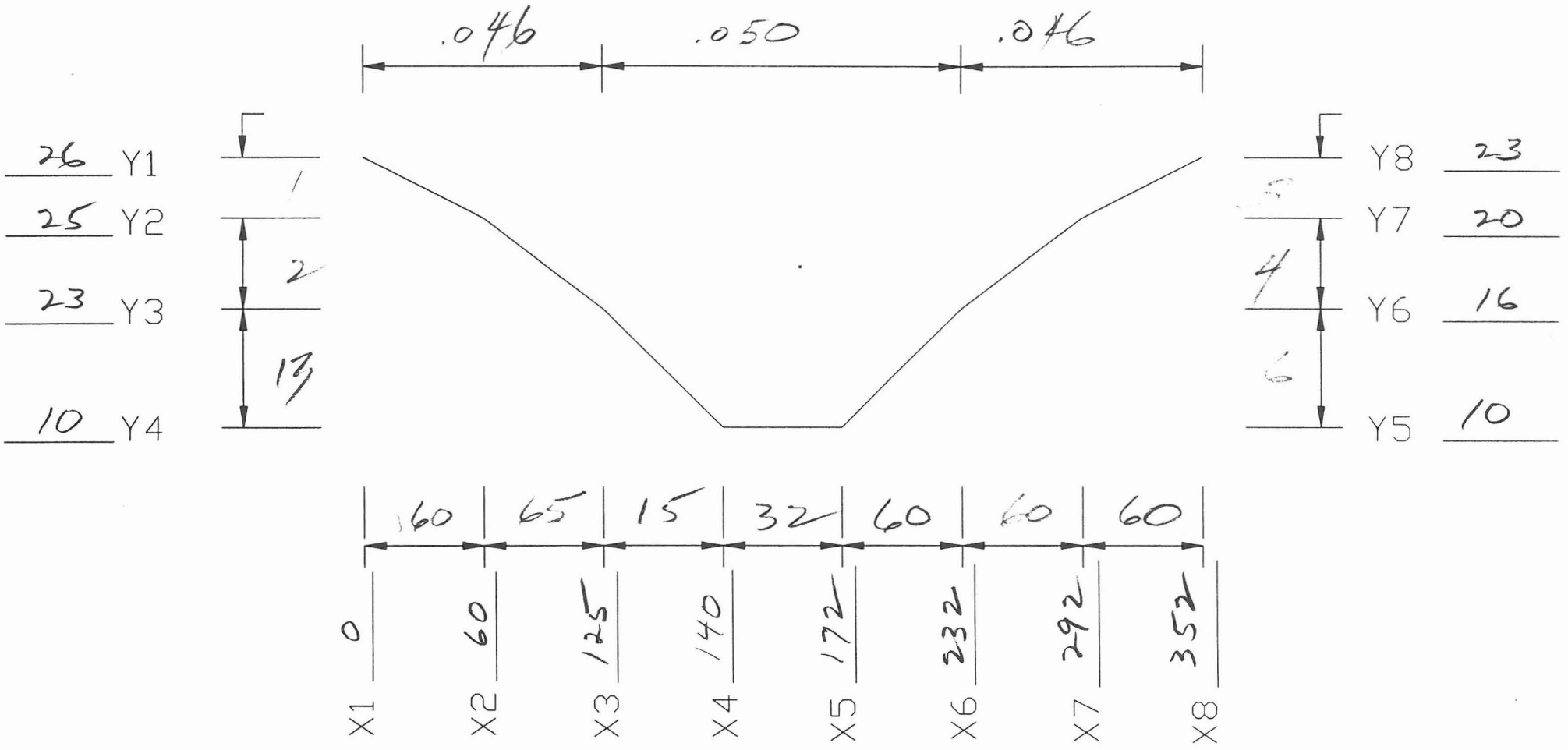
LOOKING DOWNSTREAM



33-34-23 N
112-40-38 W
→ 57°
16

SECTION C2

LOOKING DOWNSTREAM

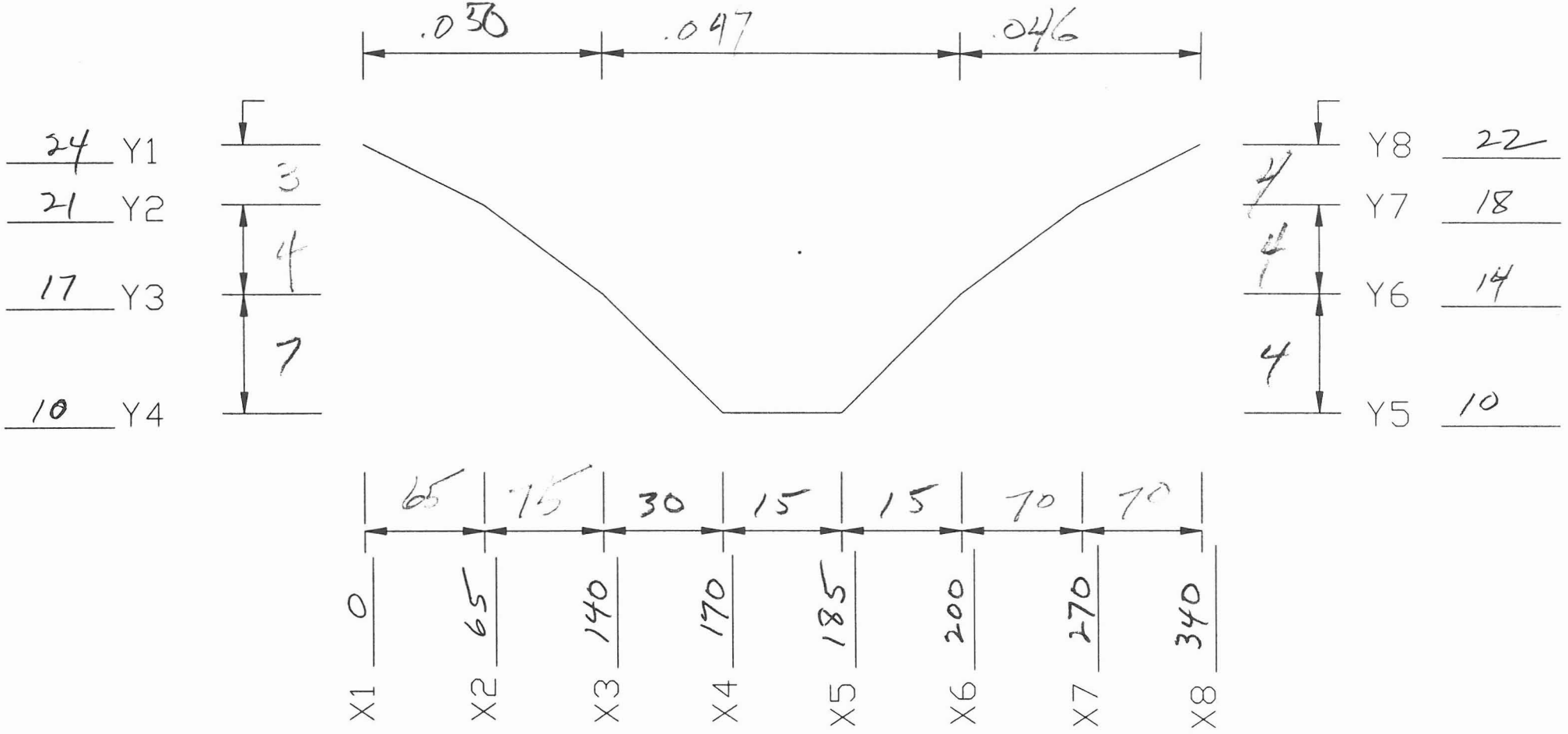


33-33-36 N)
112-41-44 W)
10°
20

SECTION C3

LOOKING DOWNSTREAM

F.

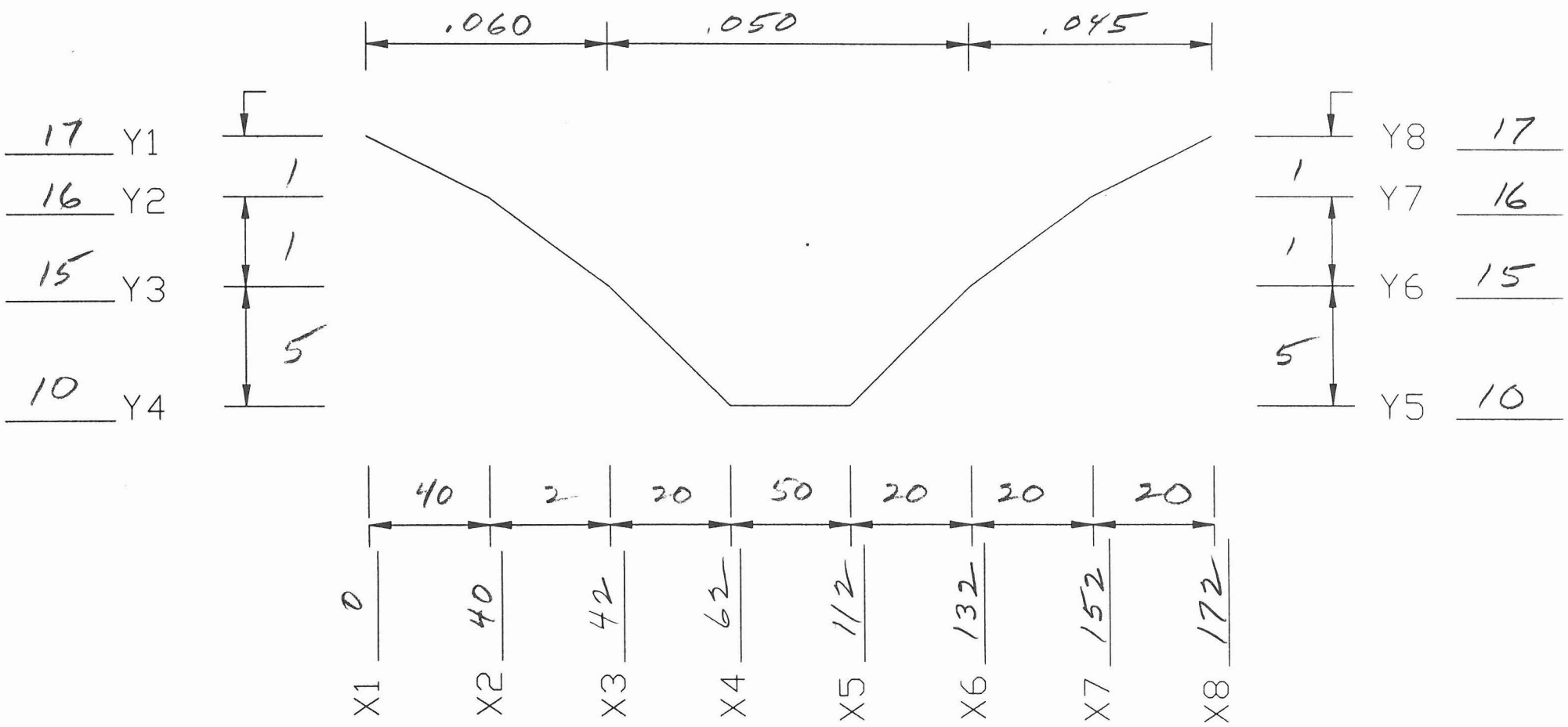


33-33-16 N
112-40-15 W
→ 235°
17

SECTION E2

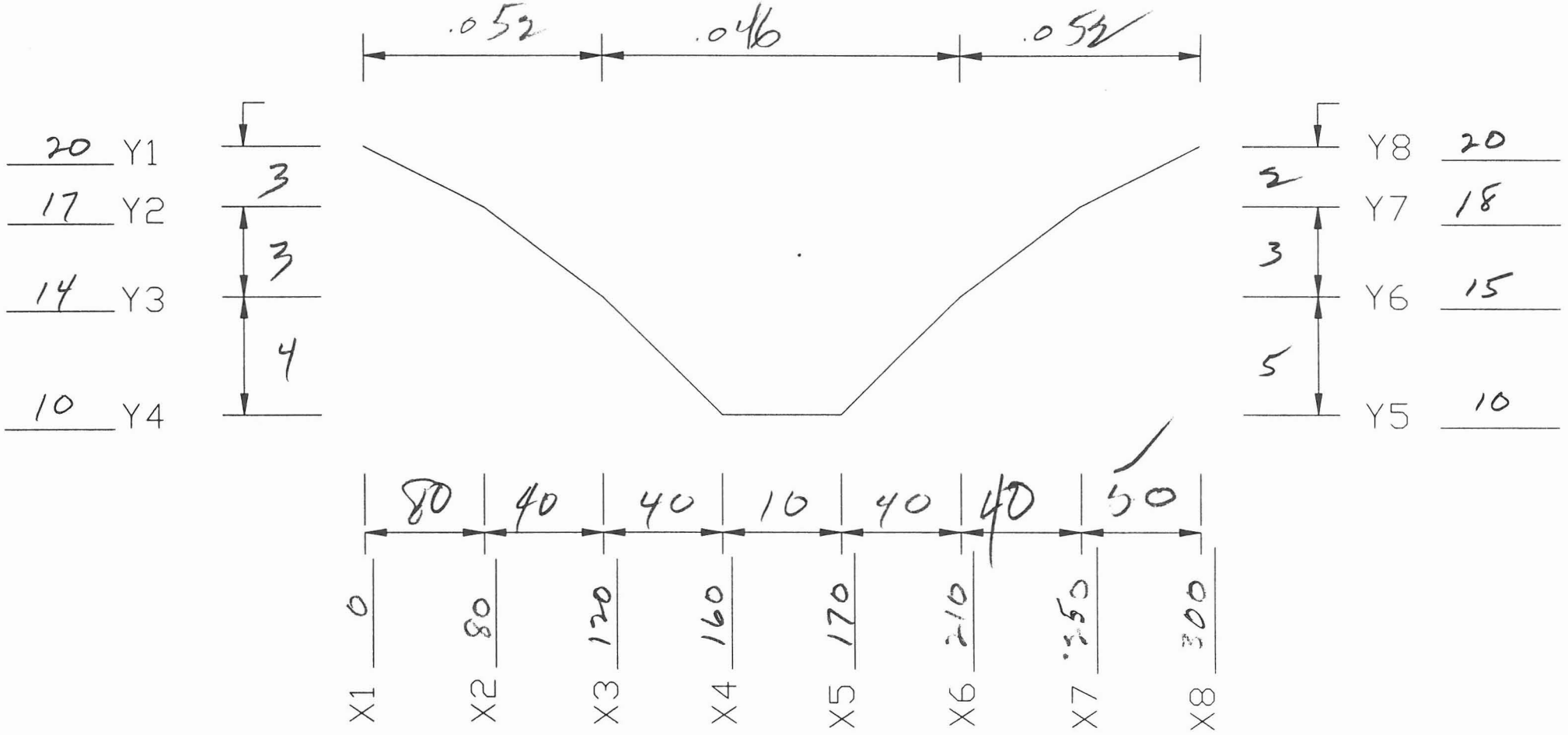
LOOKING DOWNSTREAM

8



SECTION D2F

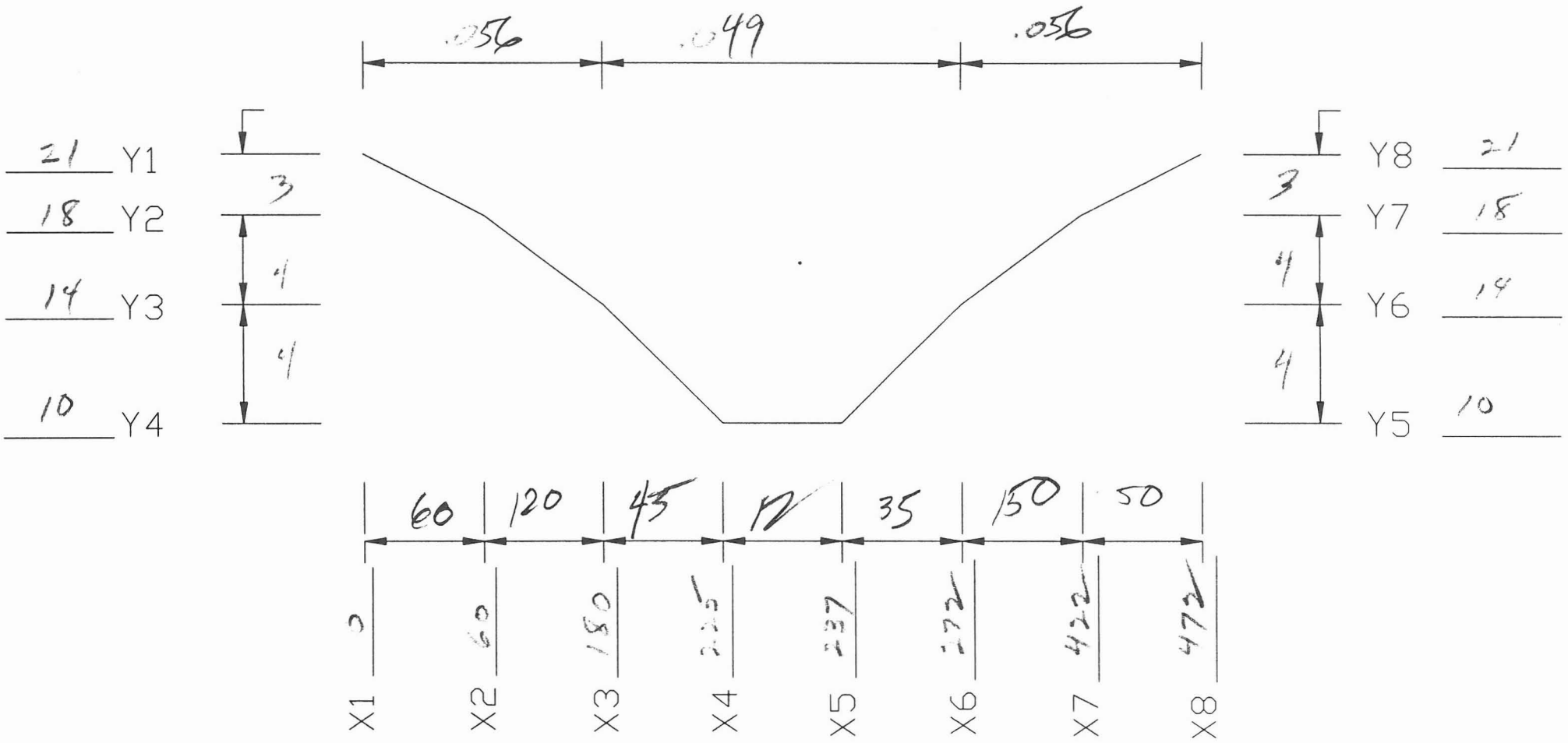
LOOKING DOWNSTREAM



composite sec-1

SECTION E3

LOOKING DOWNSTREAM

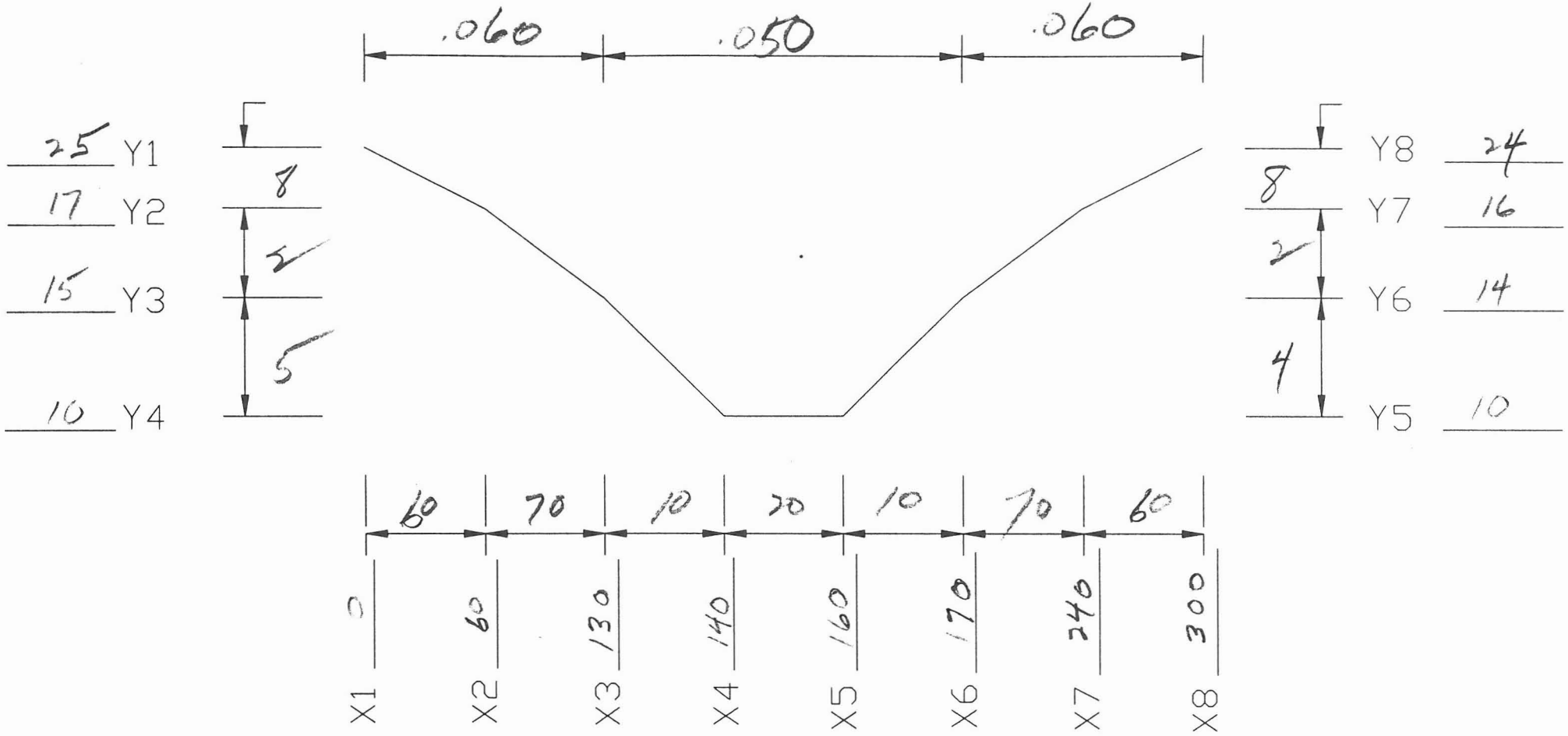


Composite
HEC-2

SECTION E4

LOOKING DOWNSTREAM

10-32

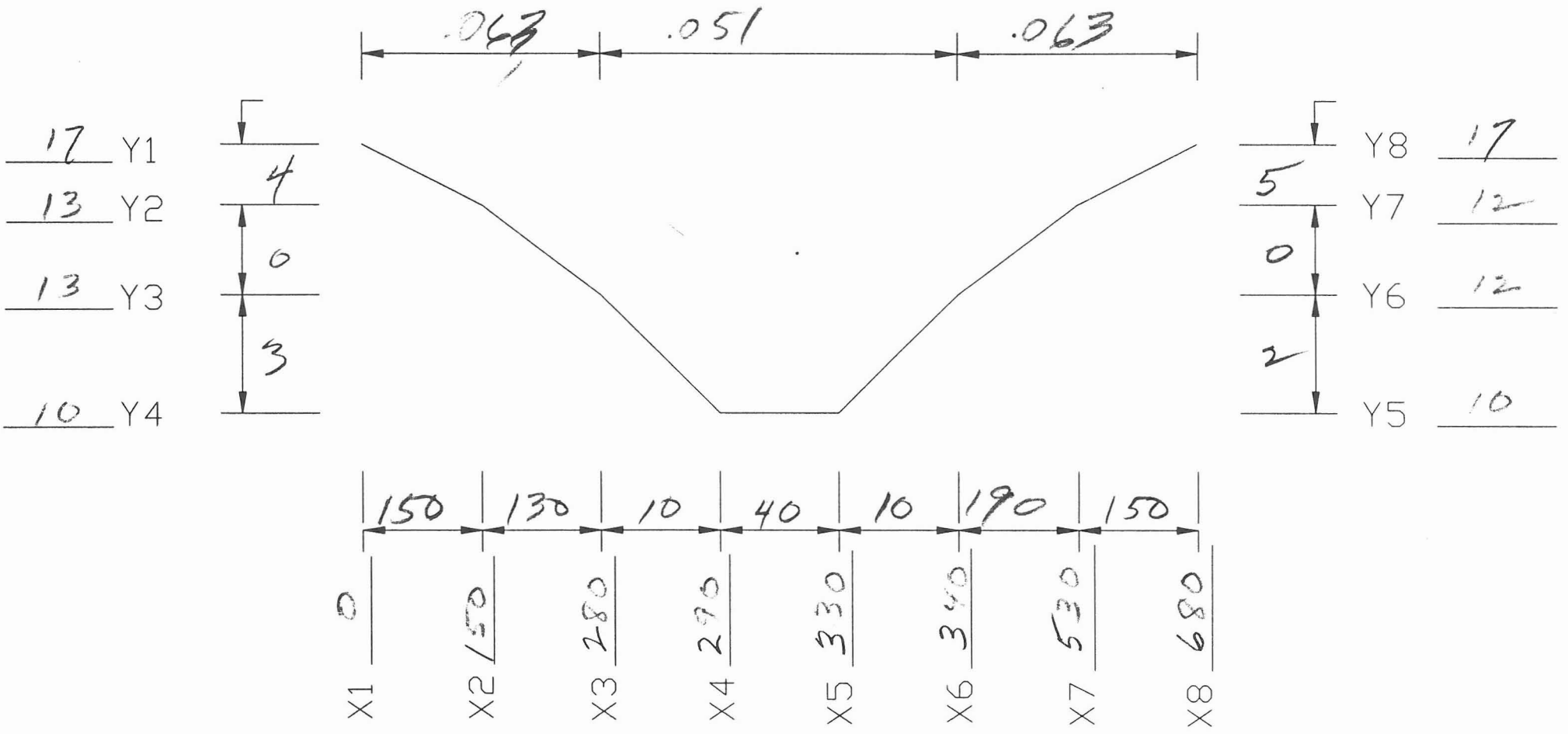


composite
HEC-2

SECTION E5

LOOKING DOWNSTREAM

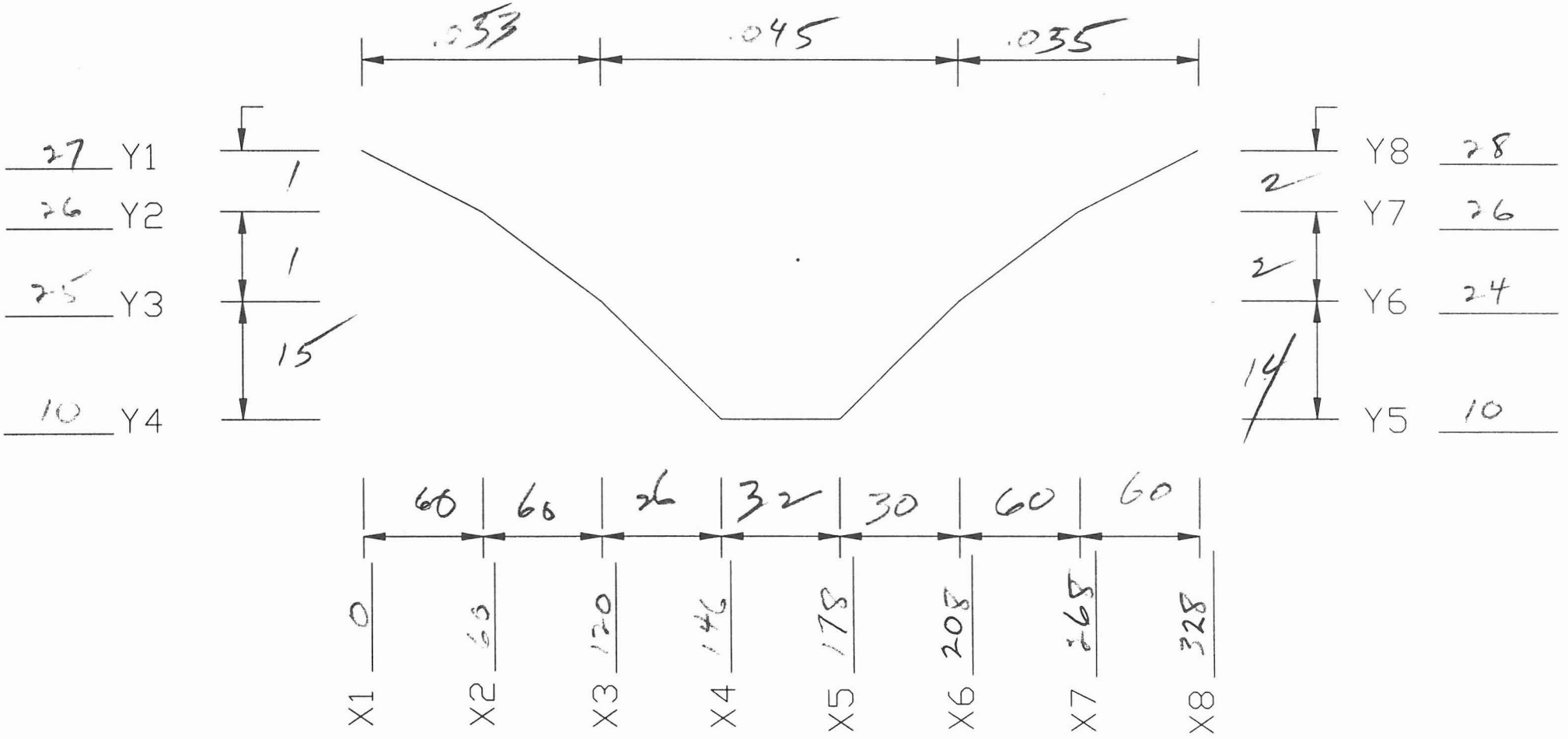
1-9



Composite
HEC-2

SECTION E6

LOOKING DOWNSTREAM

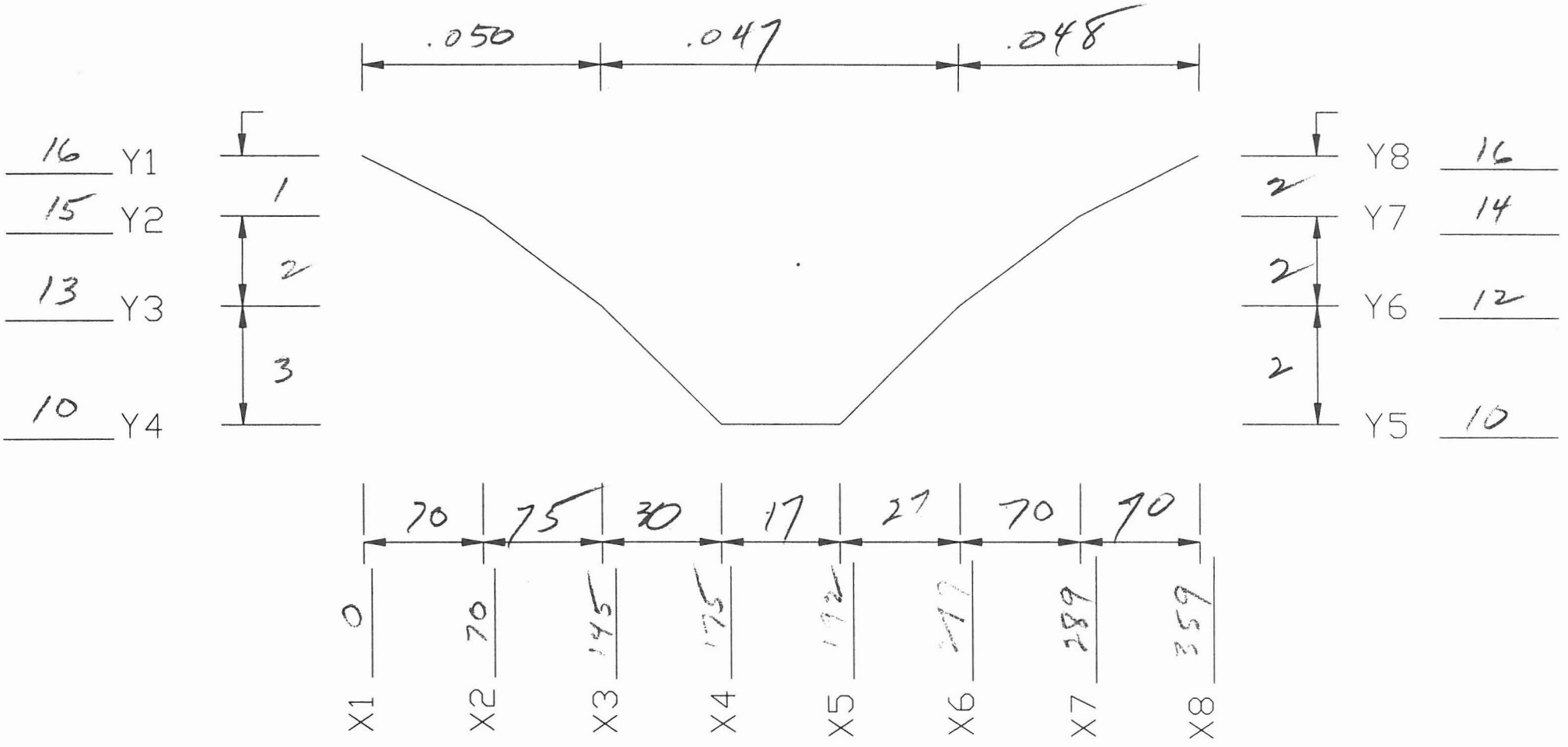


33-33-12 N
12 39- 5 W

SECTION F2

LOOKING DOWNSTREAM

3

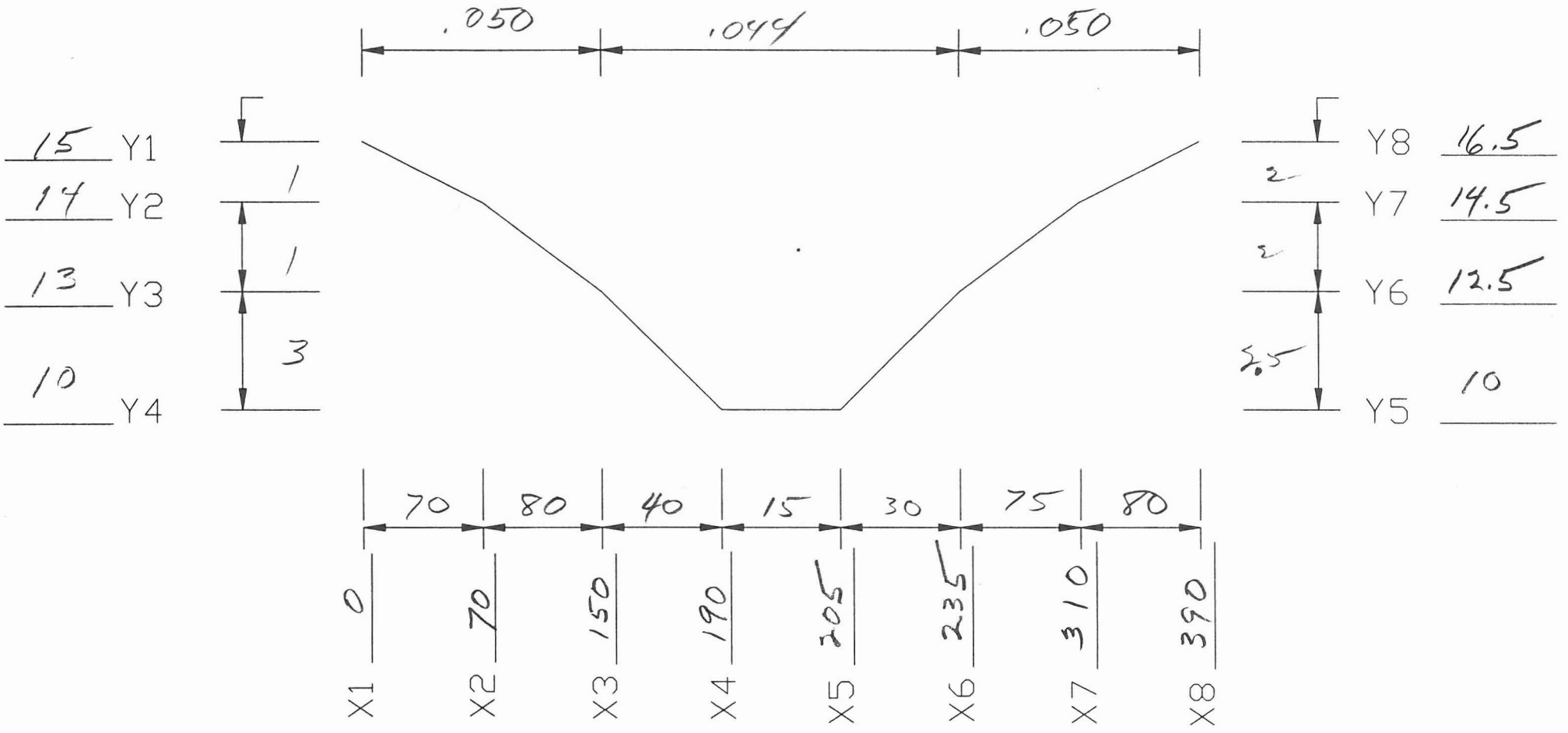


33-32-34 N
112-40-14 W
→ 055°
21

SECTION F3

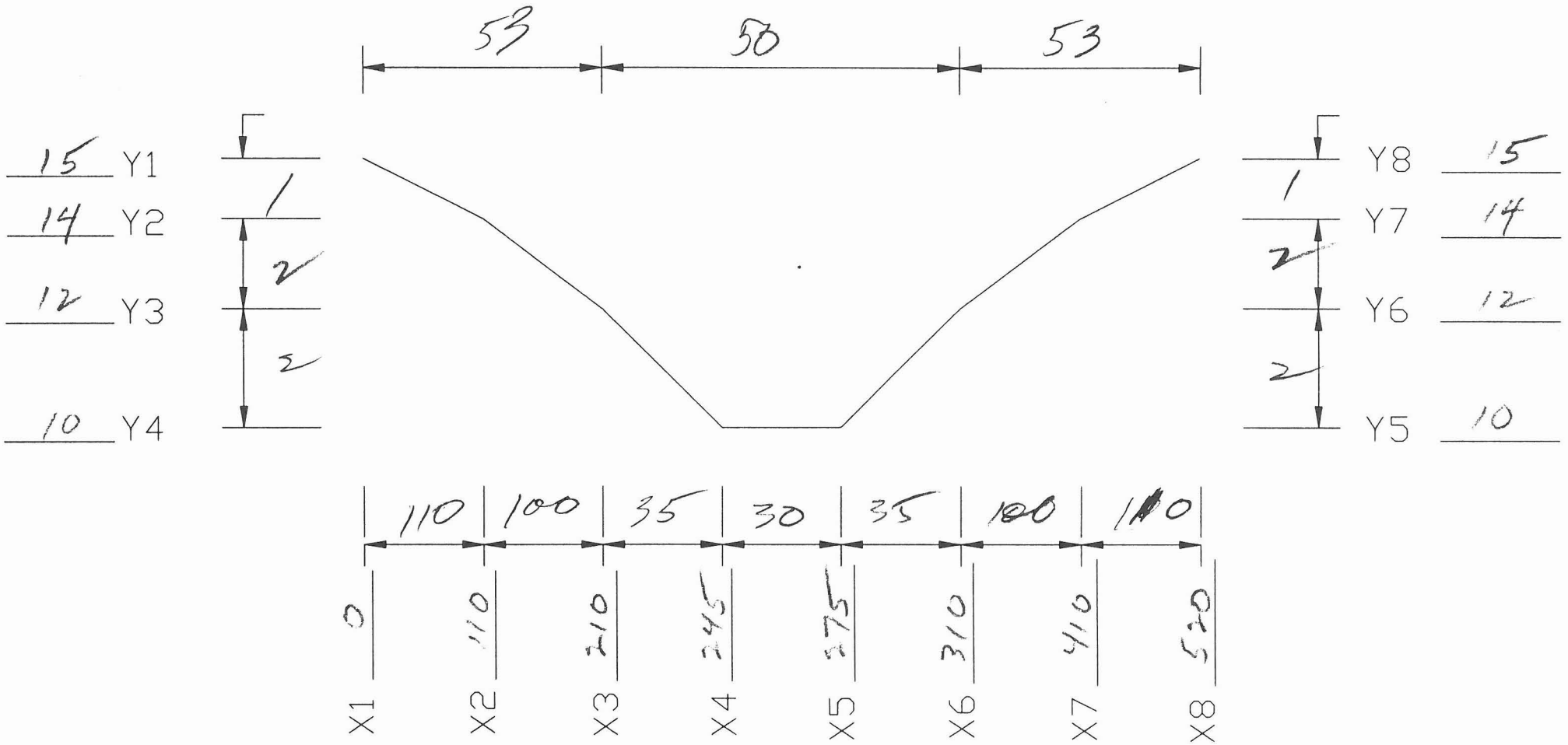
LOOKING DOWNSTREAM

B



SECTION F4

LOOKING DOWNSTREAM

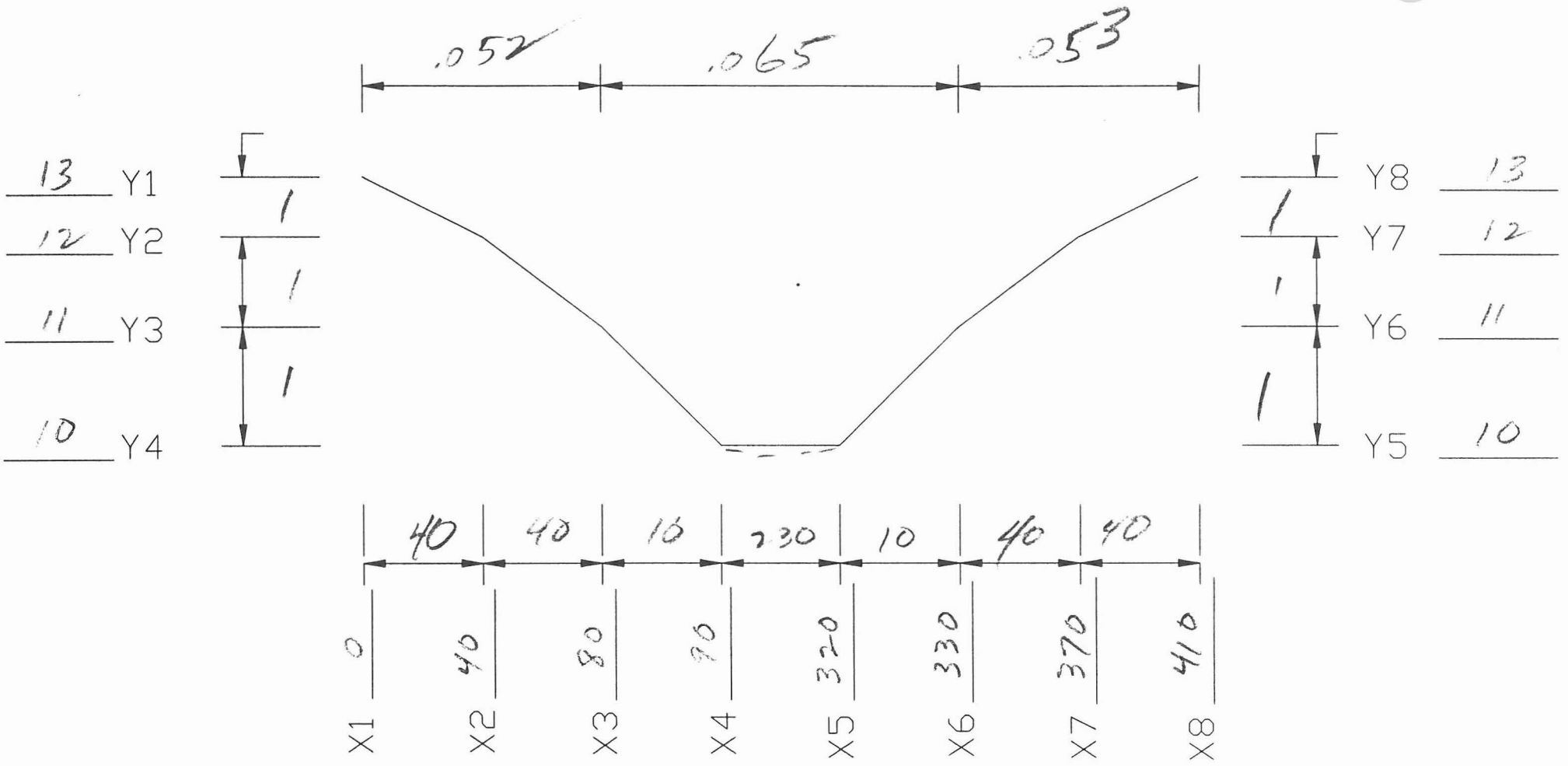


composite
Hec-2

SECTION H2

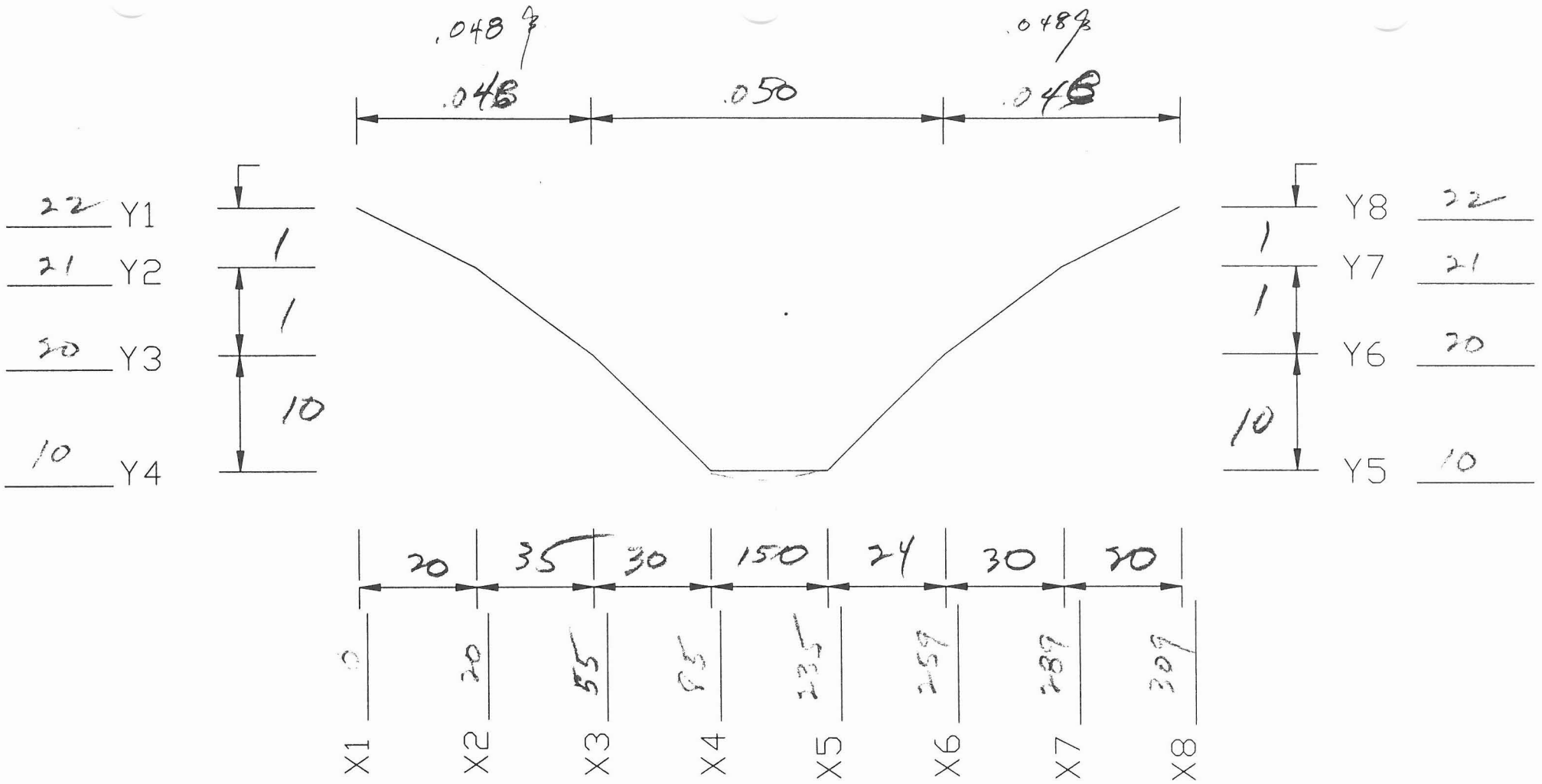
LOOKING DOWNSTREAM

3



SECTION J2

LOOKING DOWNSTREAM

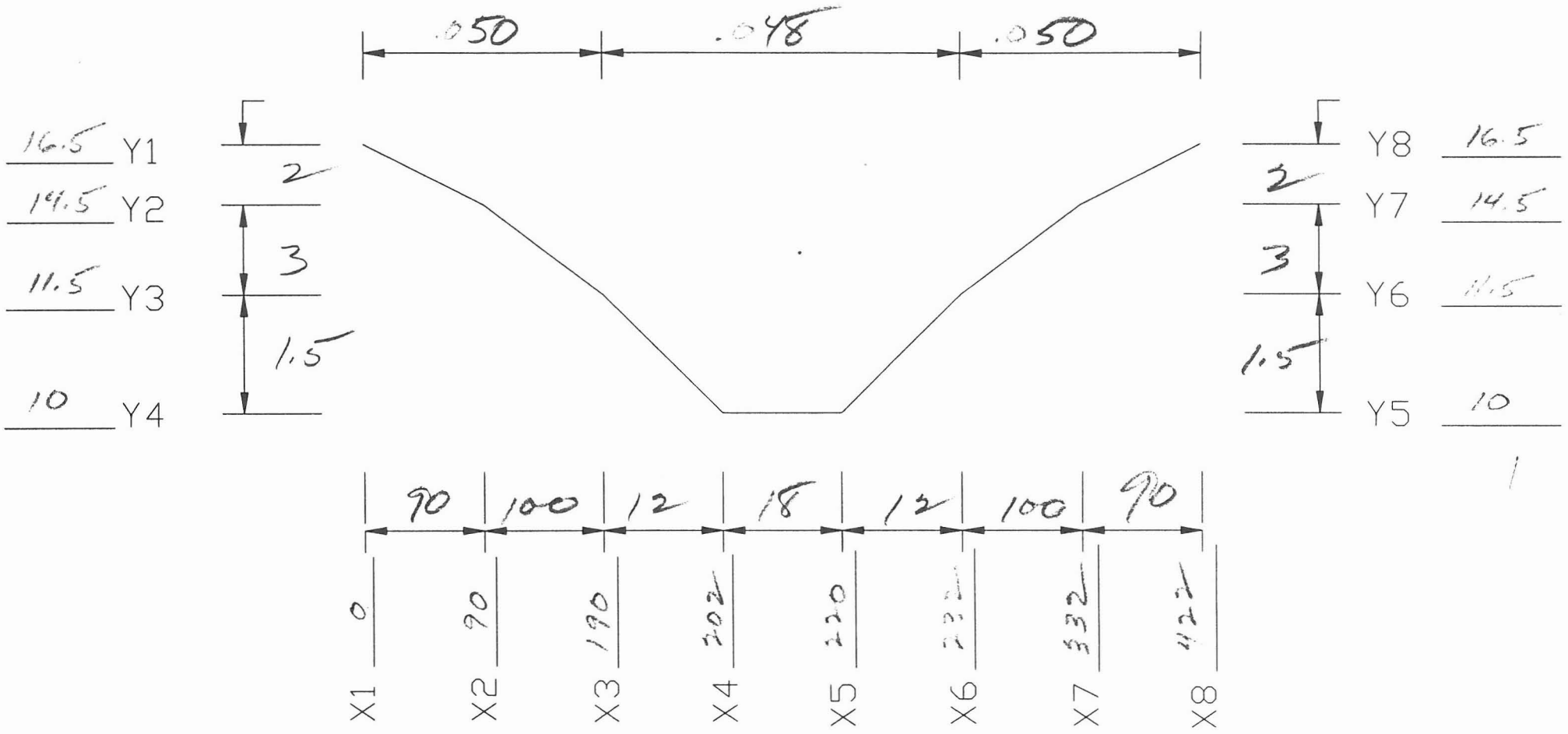


33-31-49N
112-38-58W
→ 74°
#13

SECTION K2

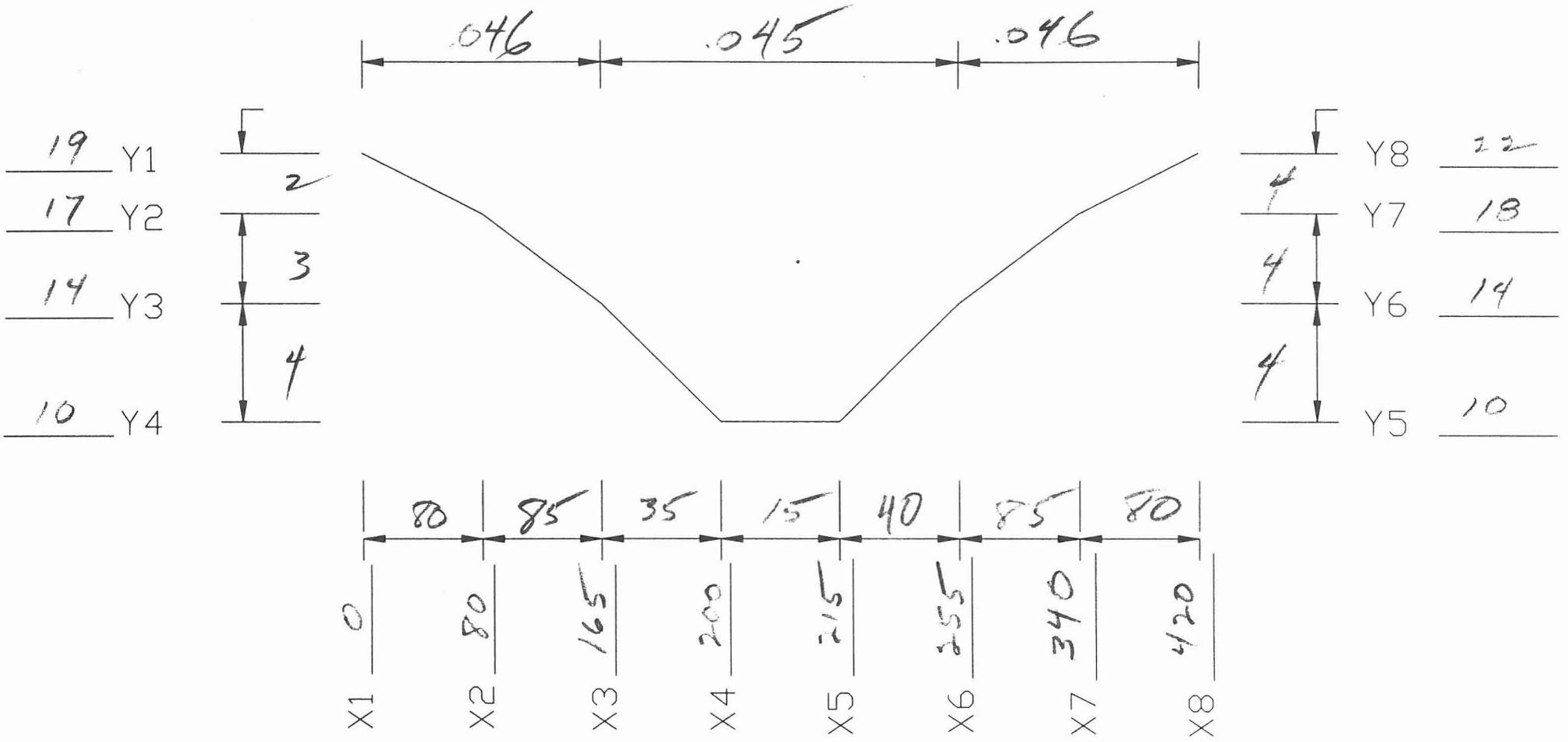
LOOKING DOWNSTREAM

9.



SECTION K3

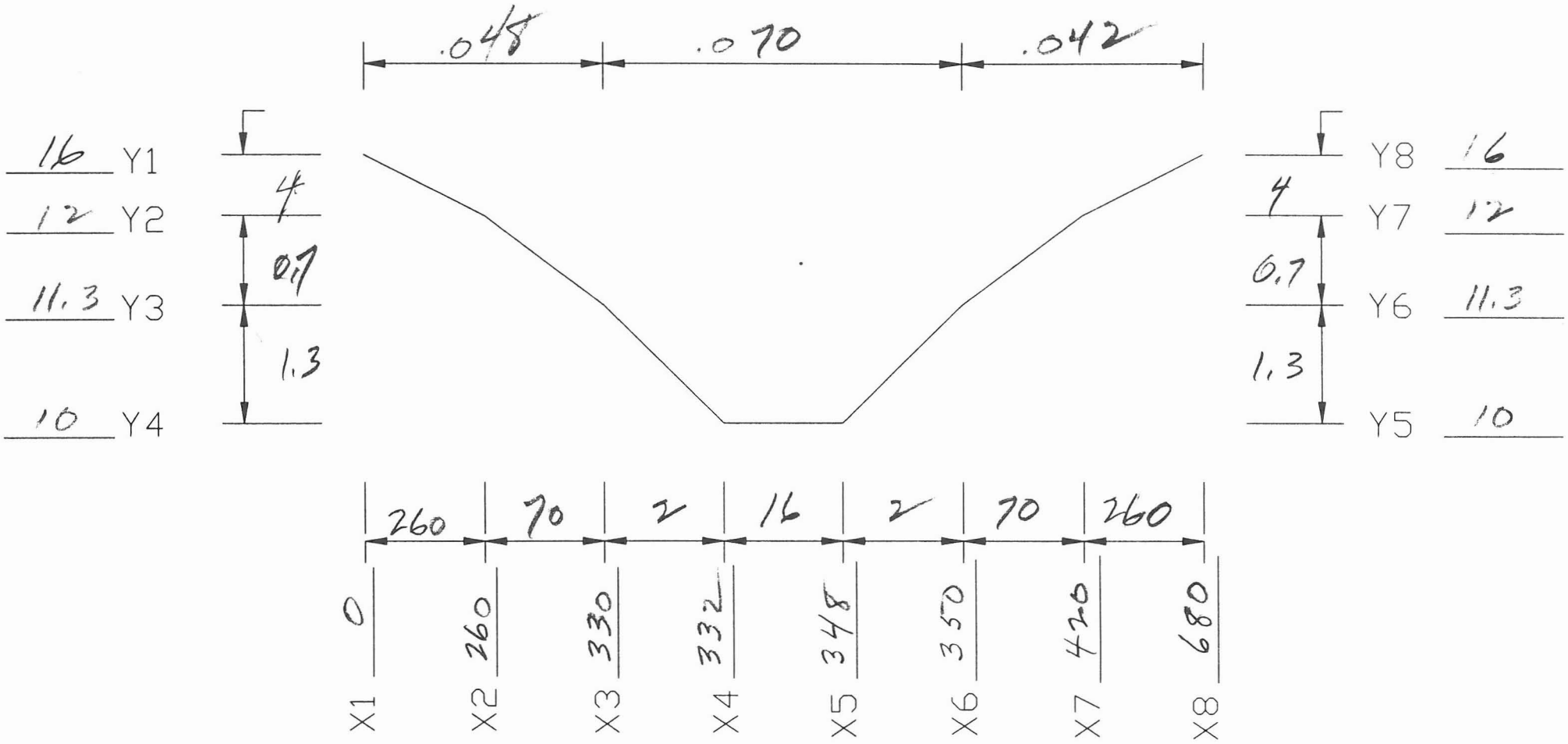
LOOKING DOWNSTREAM



33-30-58 N
112-38-40 W
→ 21
22

SECTION 22

LOOKING DOWNSTREAM

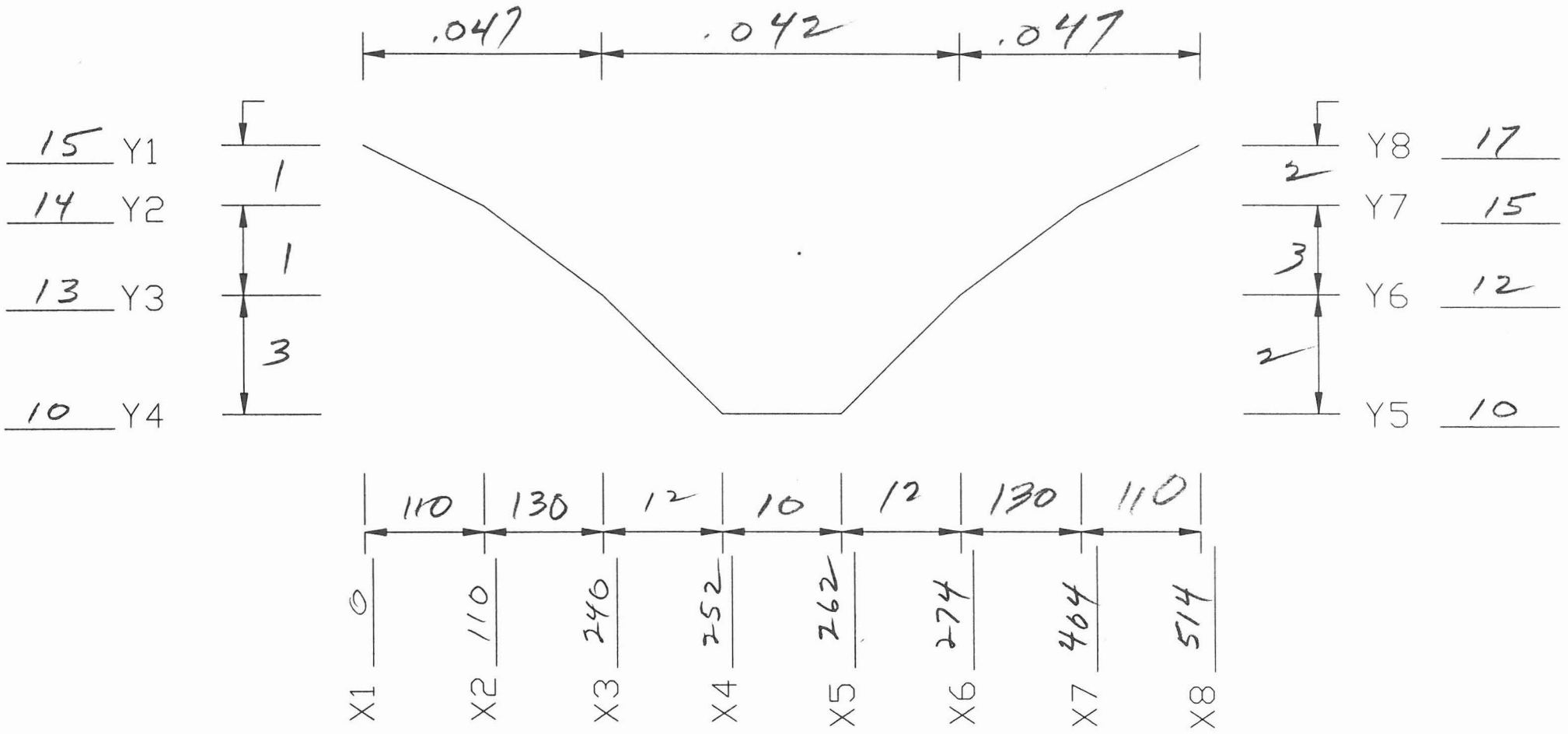


33-27-52 W
112-41-14 W
→ 1°
30

SECTION L3

LOOKING DOWNSTREAM

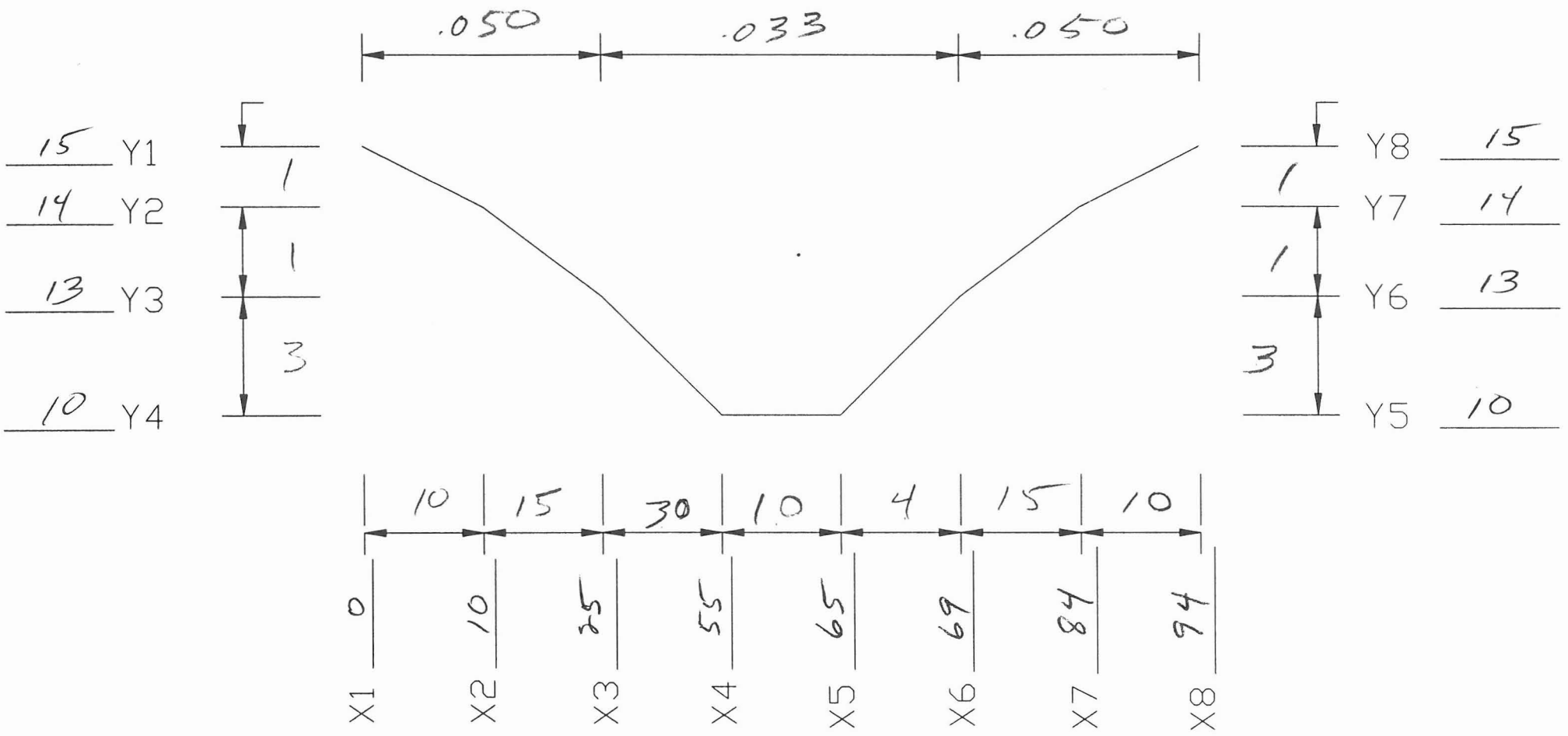
3



33 28-17 N
112 39-53 W
→ 20°
29

SECTION 1/4

LOOKING DOWNSTREAM

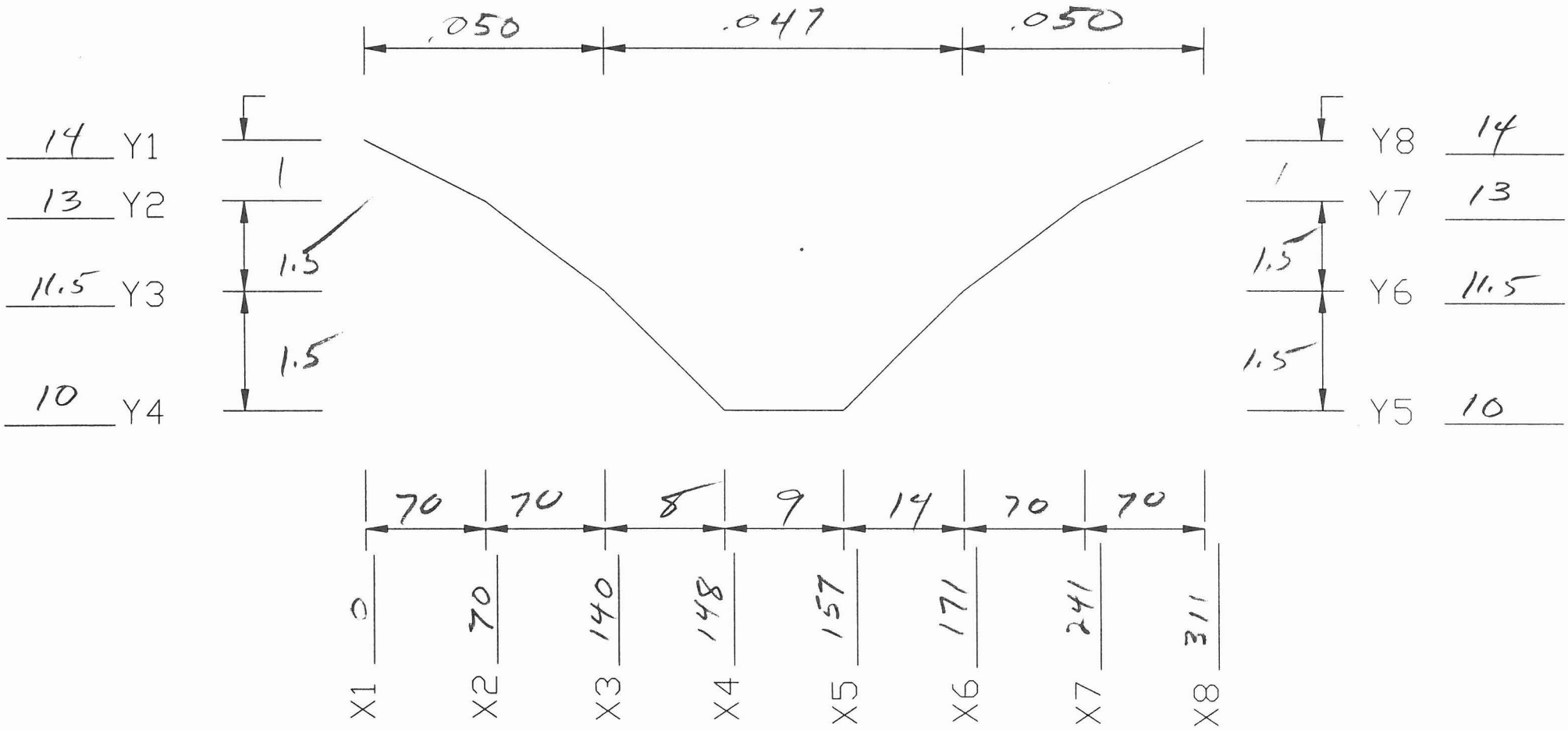


map options
2: 21 2nd
12: 10 3W
#13

SECTION 1/5

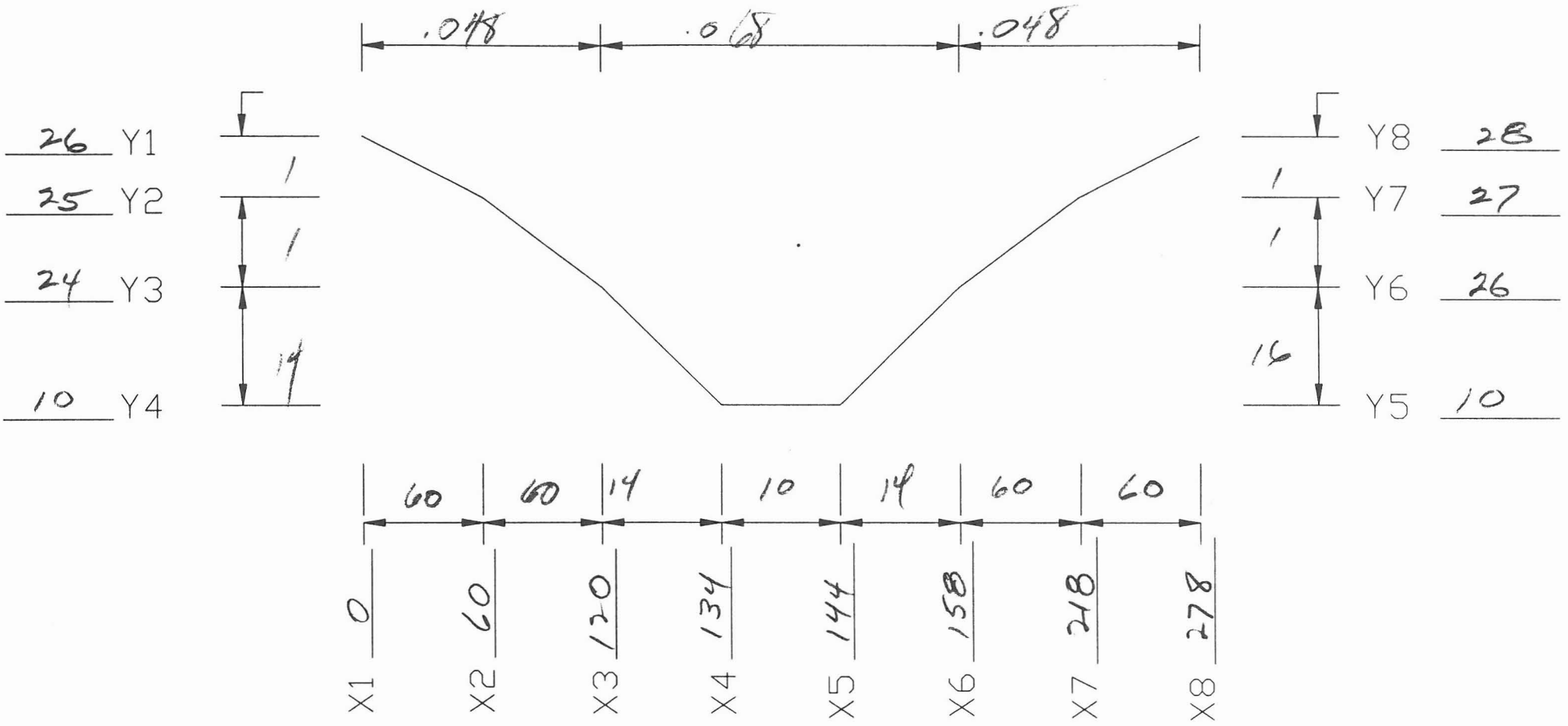
LOOKING DOWNSTREAM

E X



SECTION N2

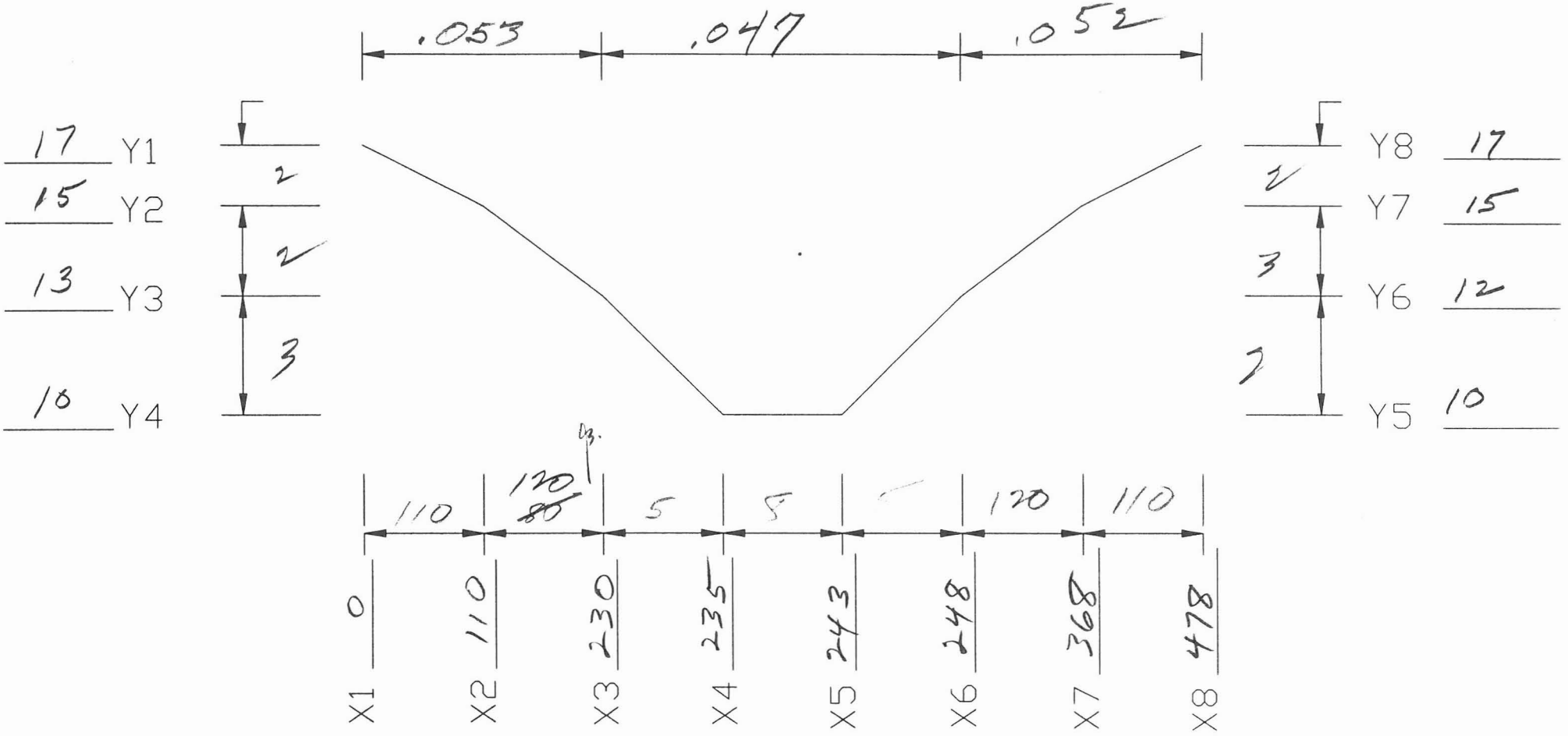
LOOKING DOWNSTREAM



33-58-48 N
112-36-34 W
→ 25
24

SECTION P2

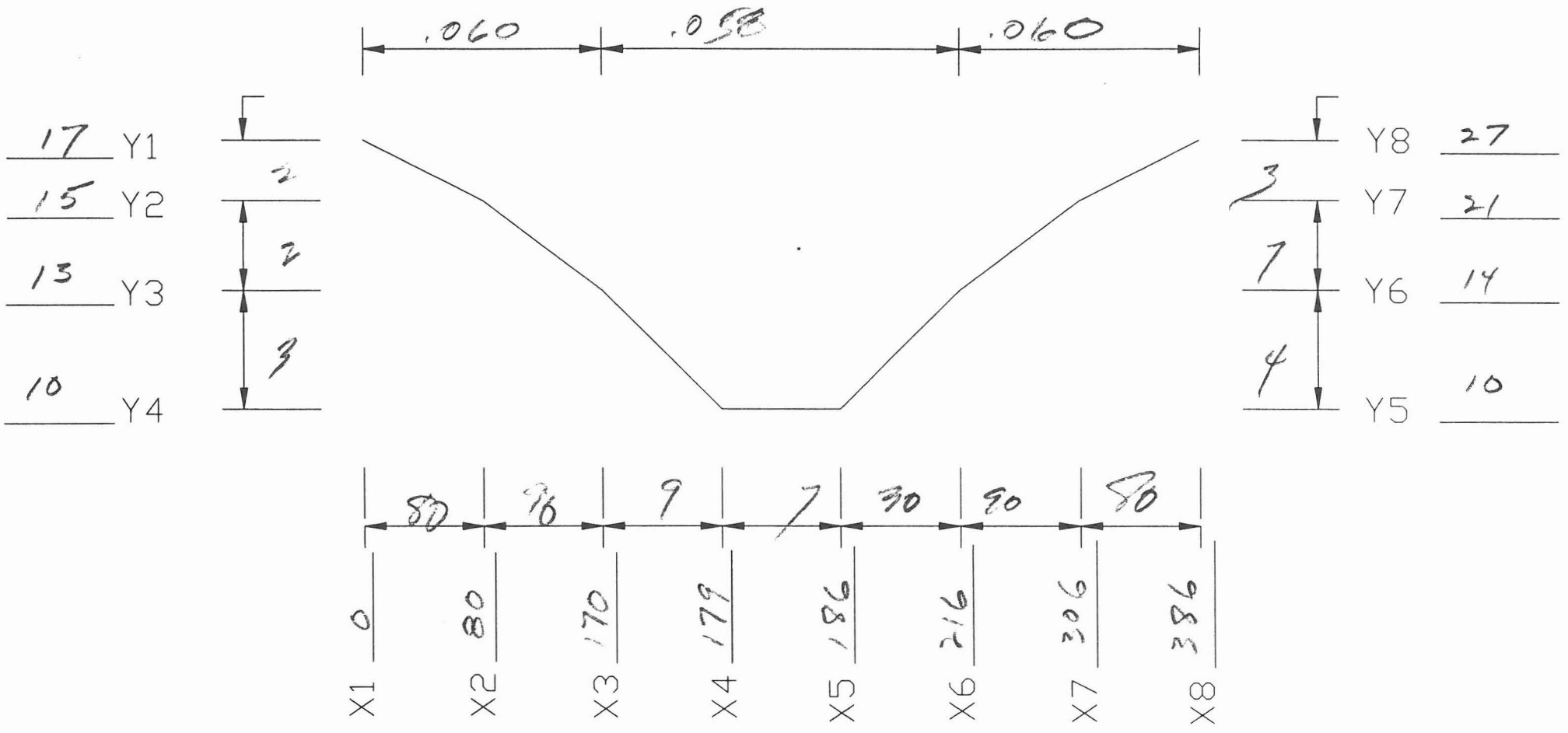
LOOKING DOWNSTREAM



33-27-03 N
112-37-49 W
→ 205
± 38

SECTION P3

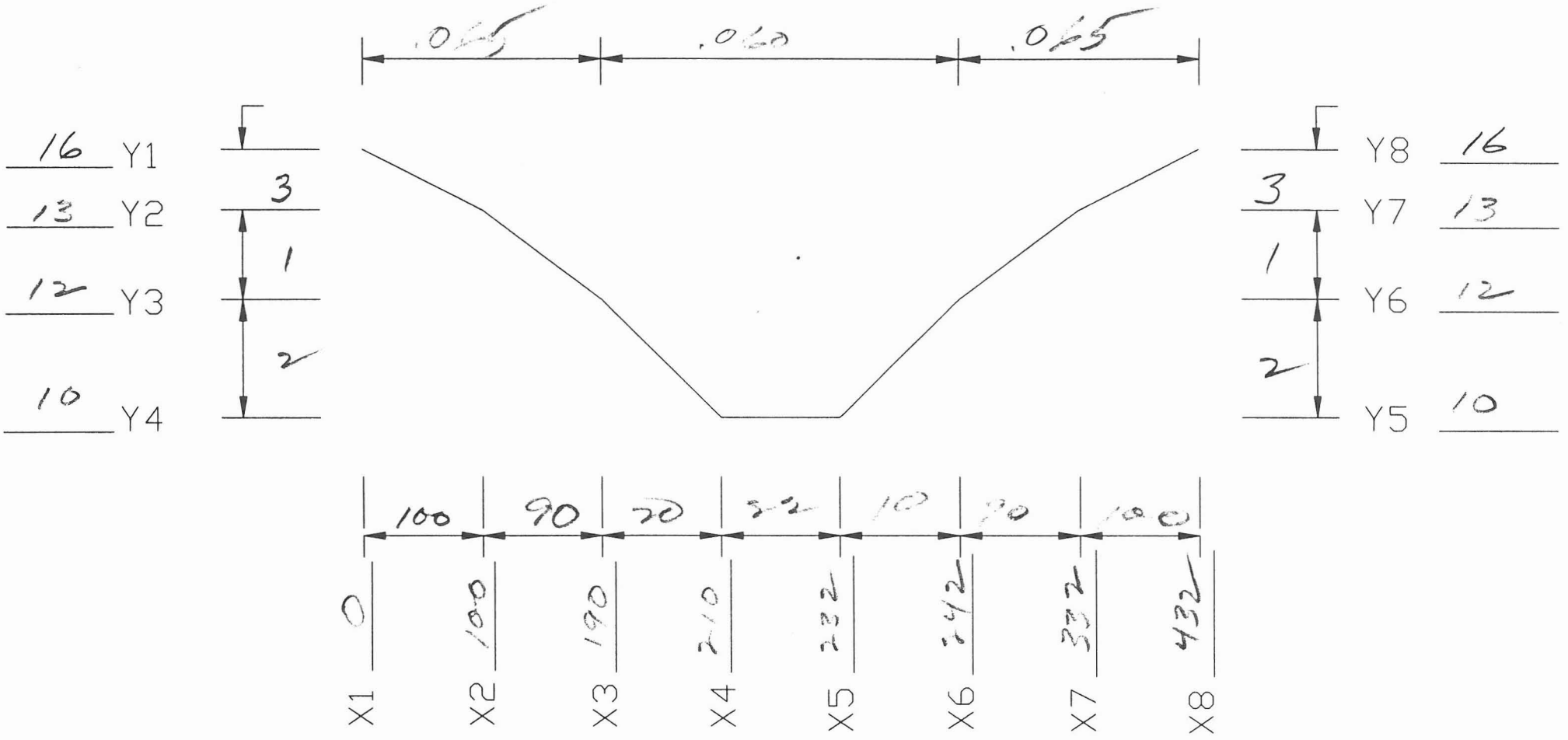
LOOKING DOWNSTREAM



33-27-04 N
112-36-55 W
→ 0°
26

SECTION Q2

LOOKING DOWNSTREAM



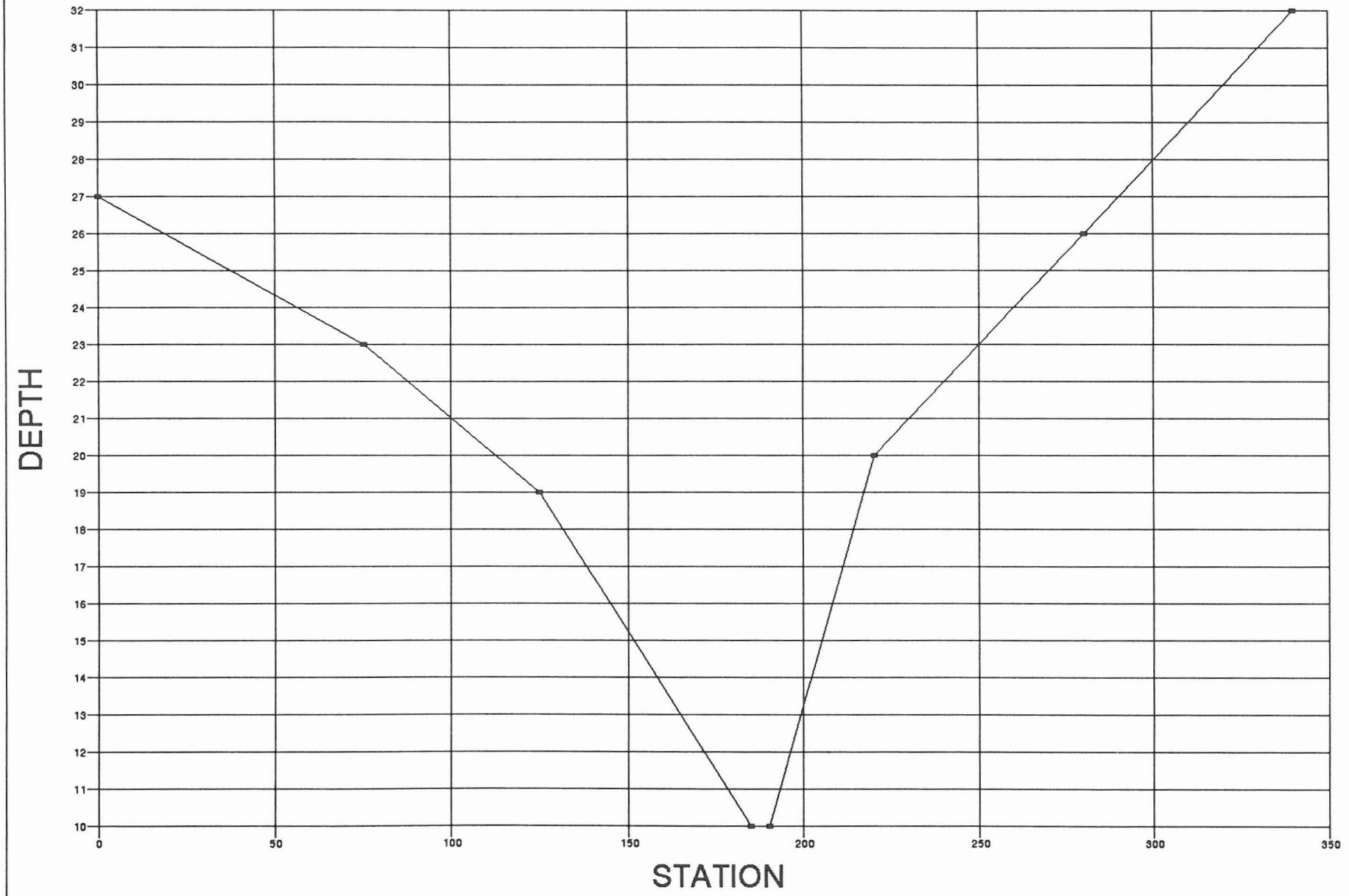
33-28-01 N
112-32-18 W
→ 385
#1

SECTION 102

LOOKING DOWNSTREAM

g.

A2


DEPTH
32
31
30
29
28
27
26
25
24
23
22
21
20
19
18
17
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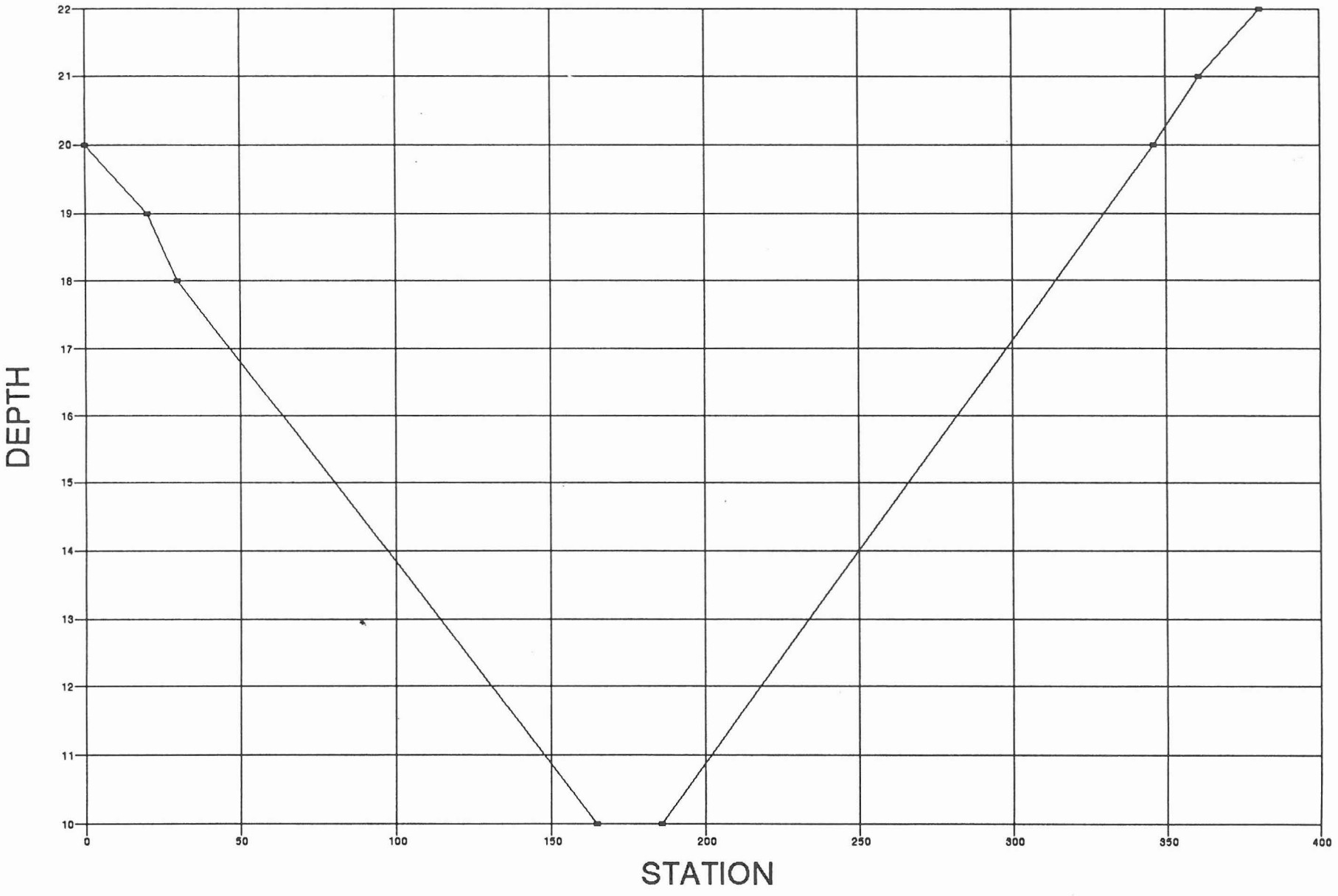
13
12
11
10
0
50
100
150
200
250
300
350
STATION

A3


DEPTH
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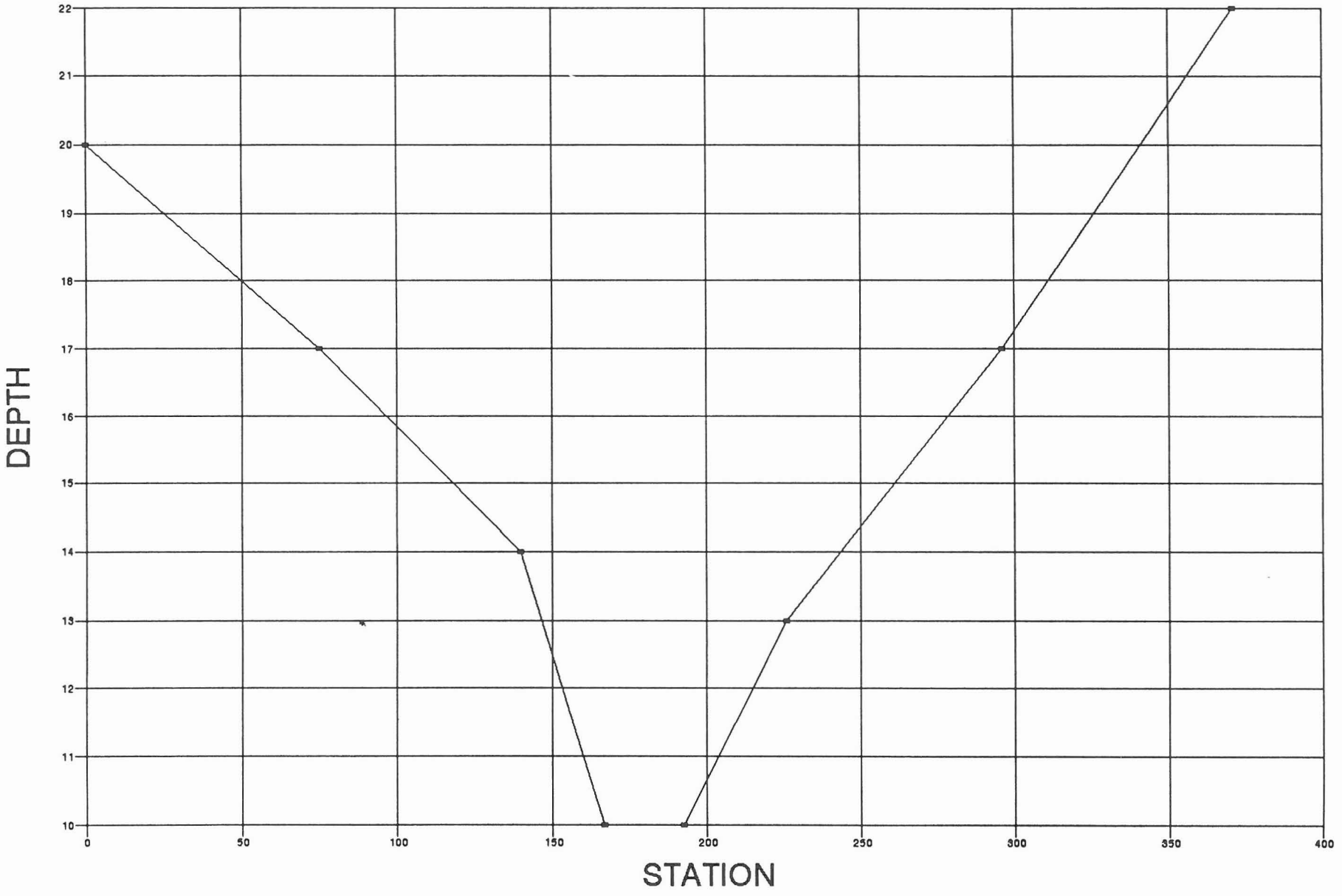
150
200
250
300
350
400
STATION

B2


DEPTH
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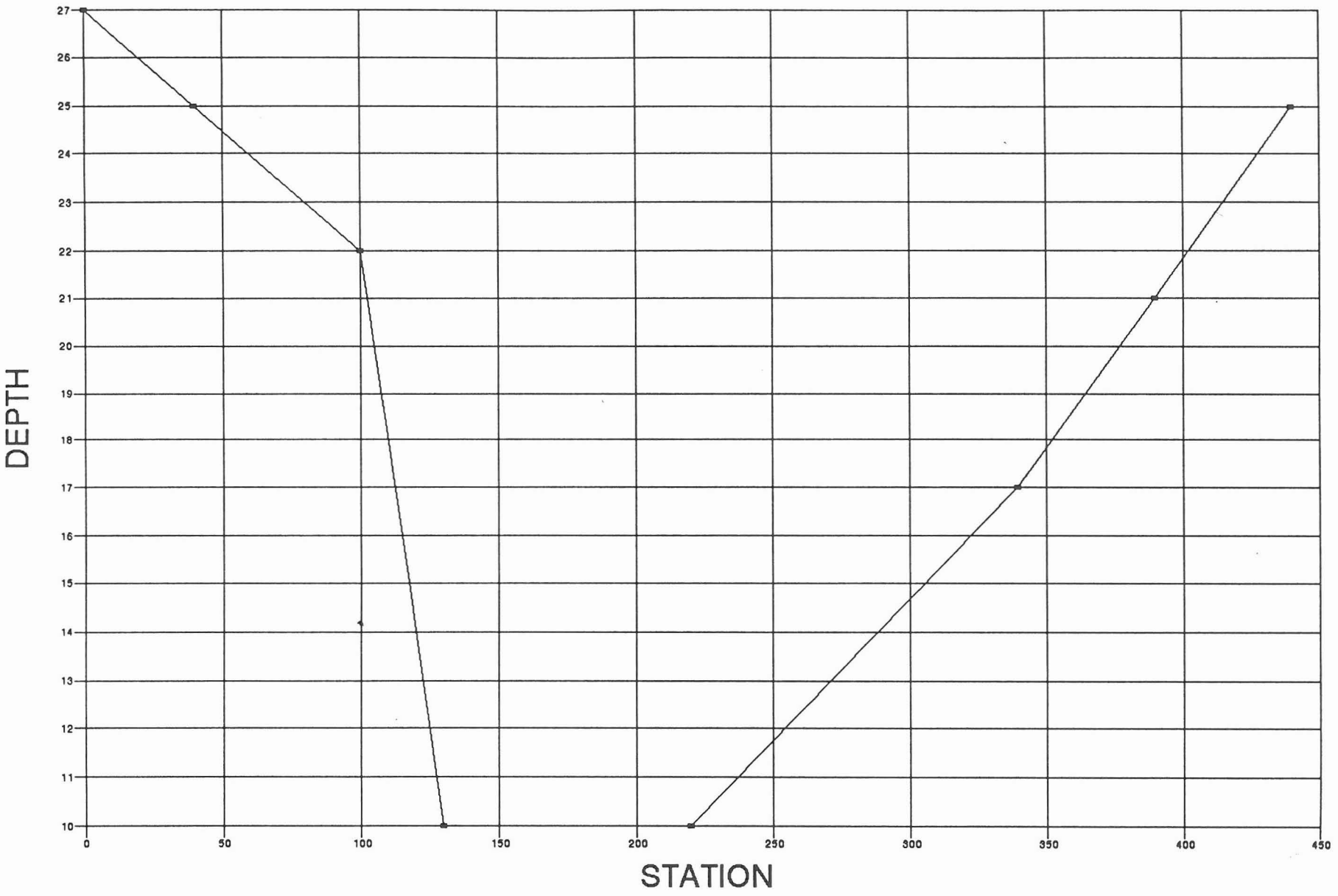
400
STATION

B3


DEPTH
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0
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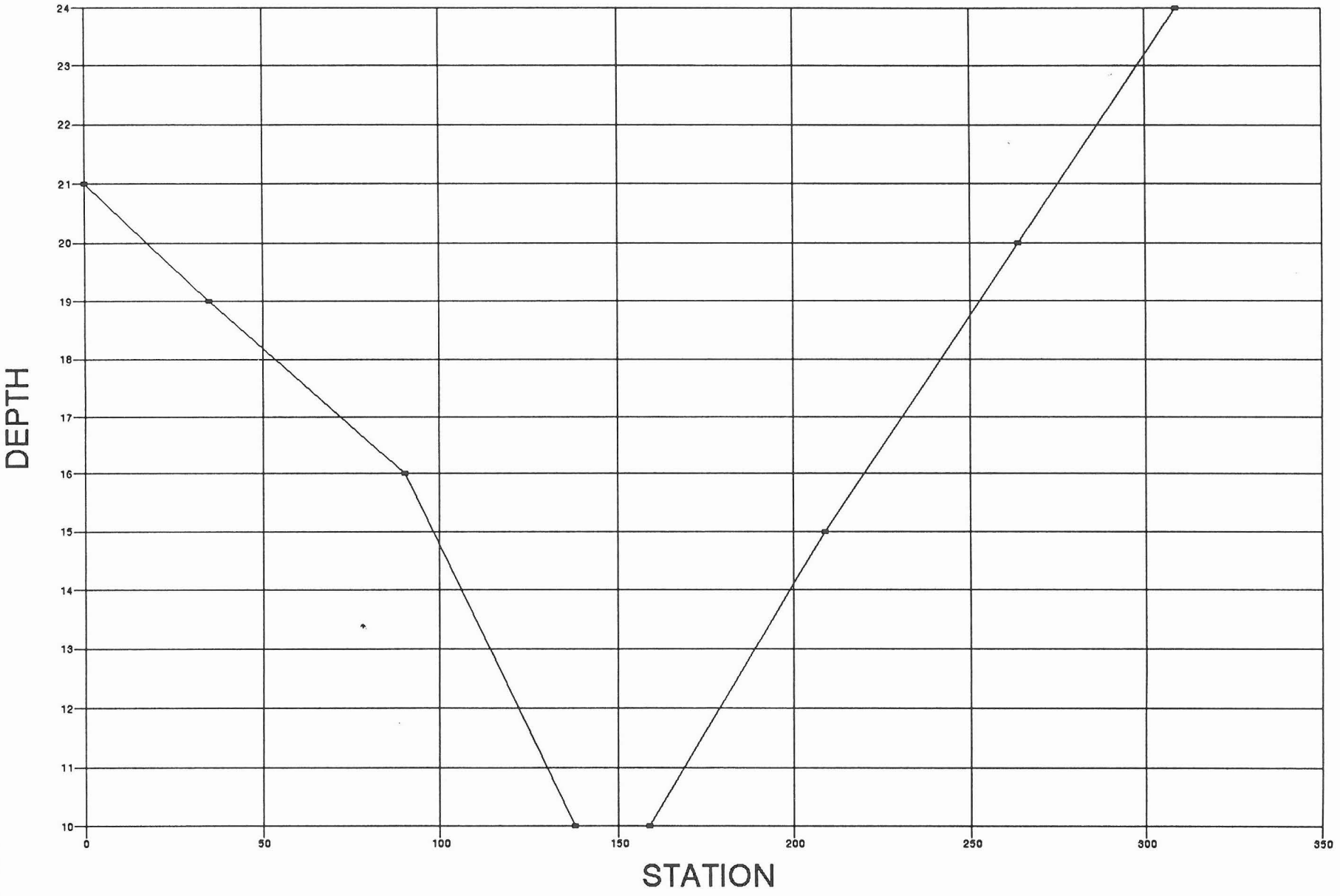
STATION

C2


DEPTH
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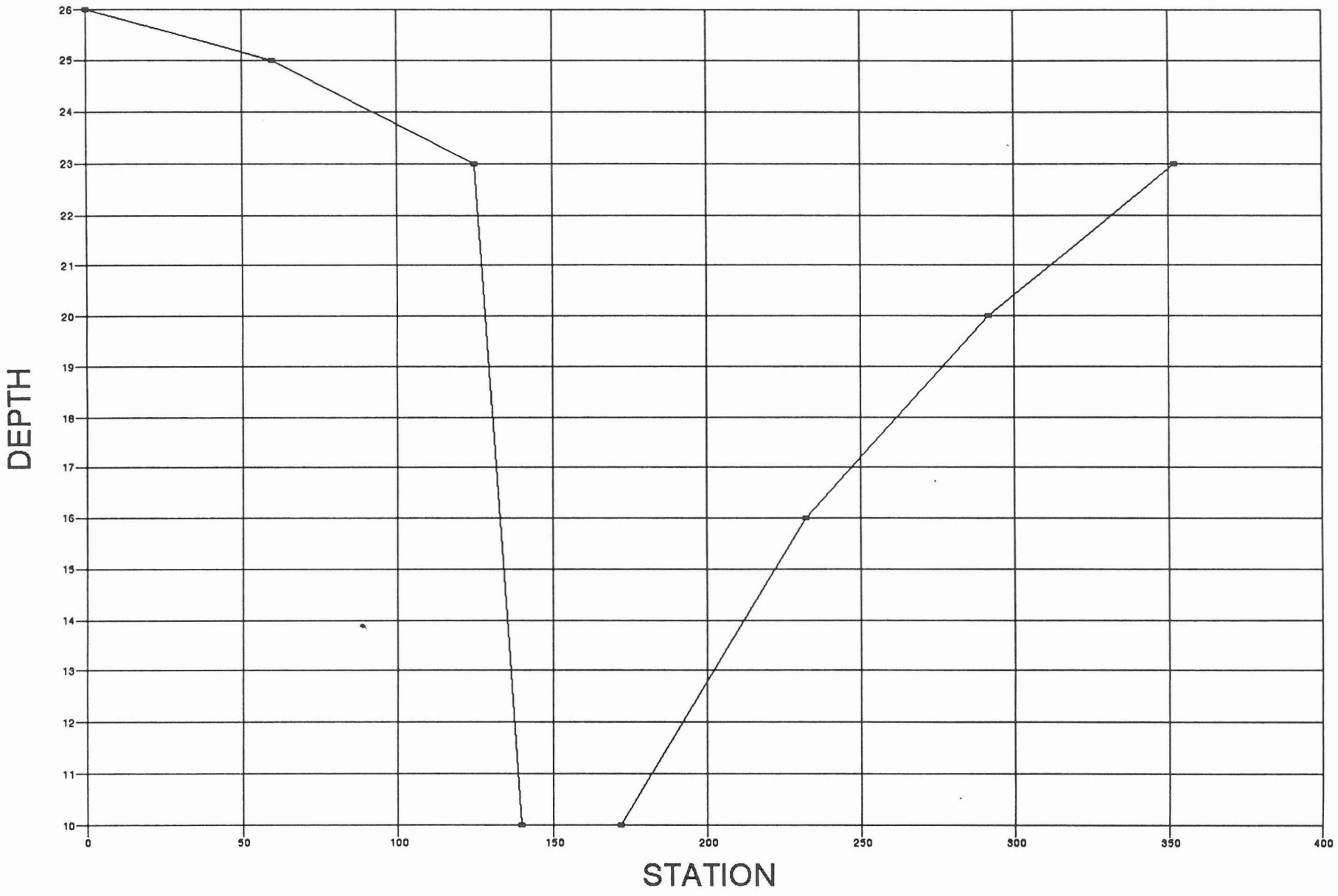
300
350
STATION

C3


DEPTH
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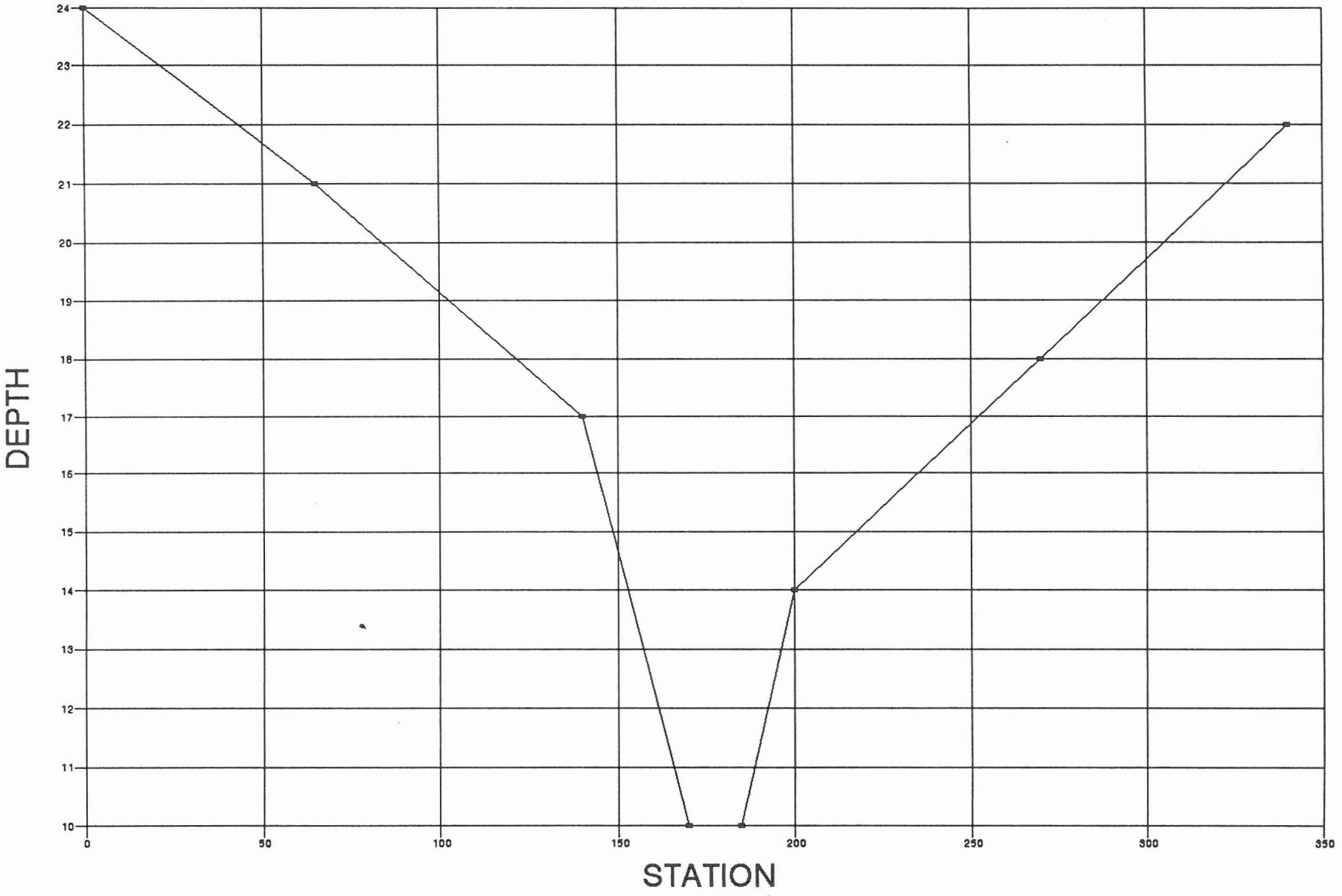
400
STATION

E2


DEPTH
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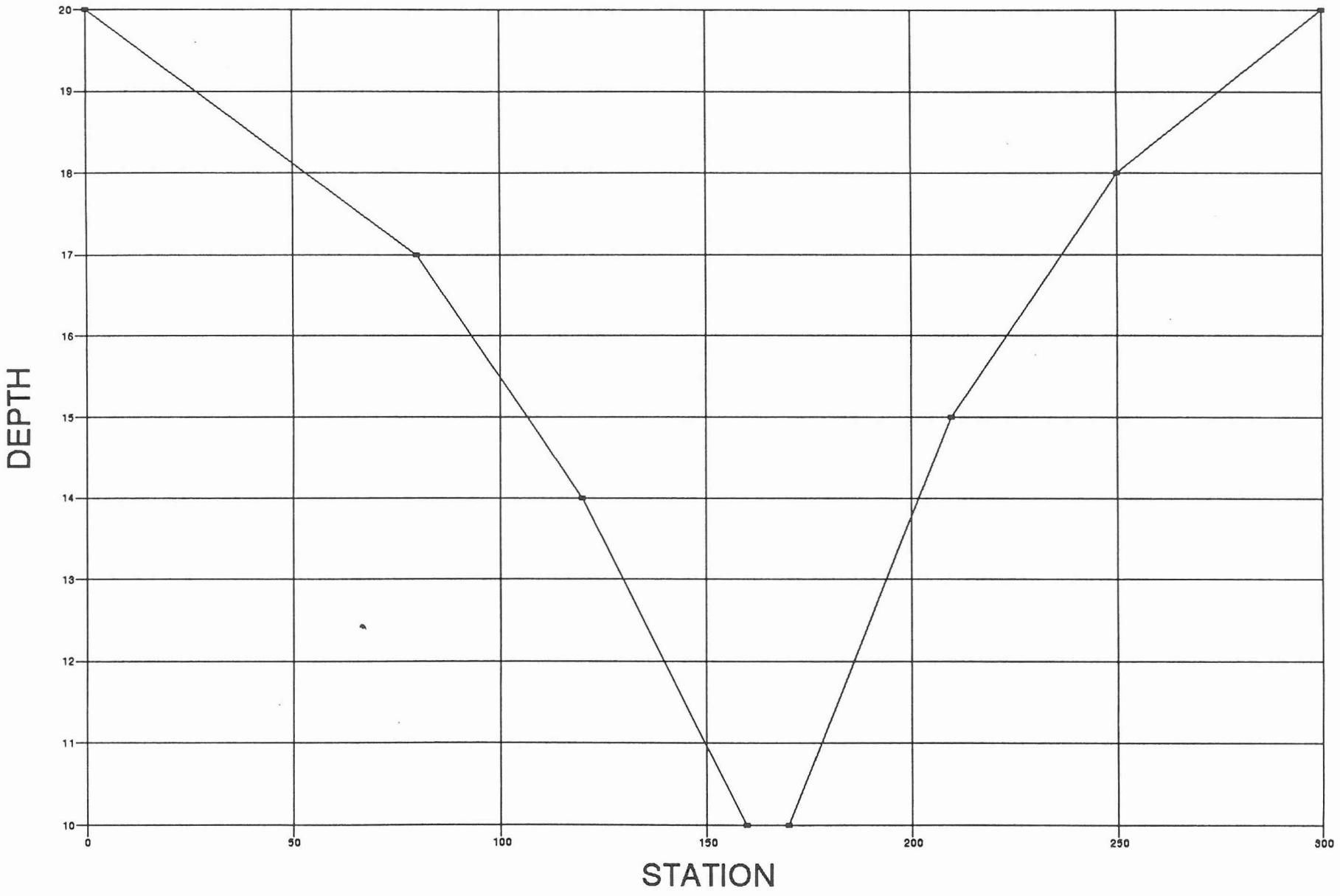
300
350
STATION

E3


20
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DEPTH
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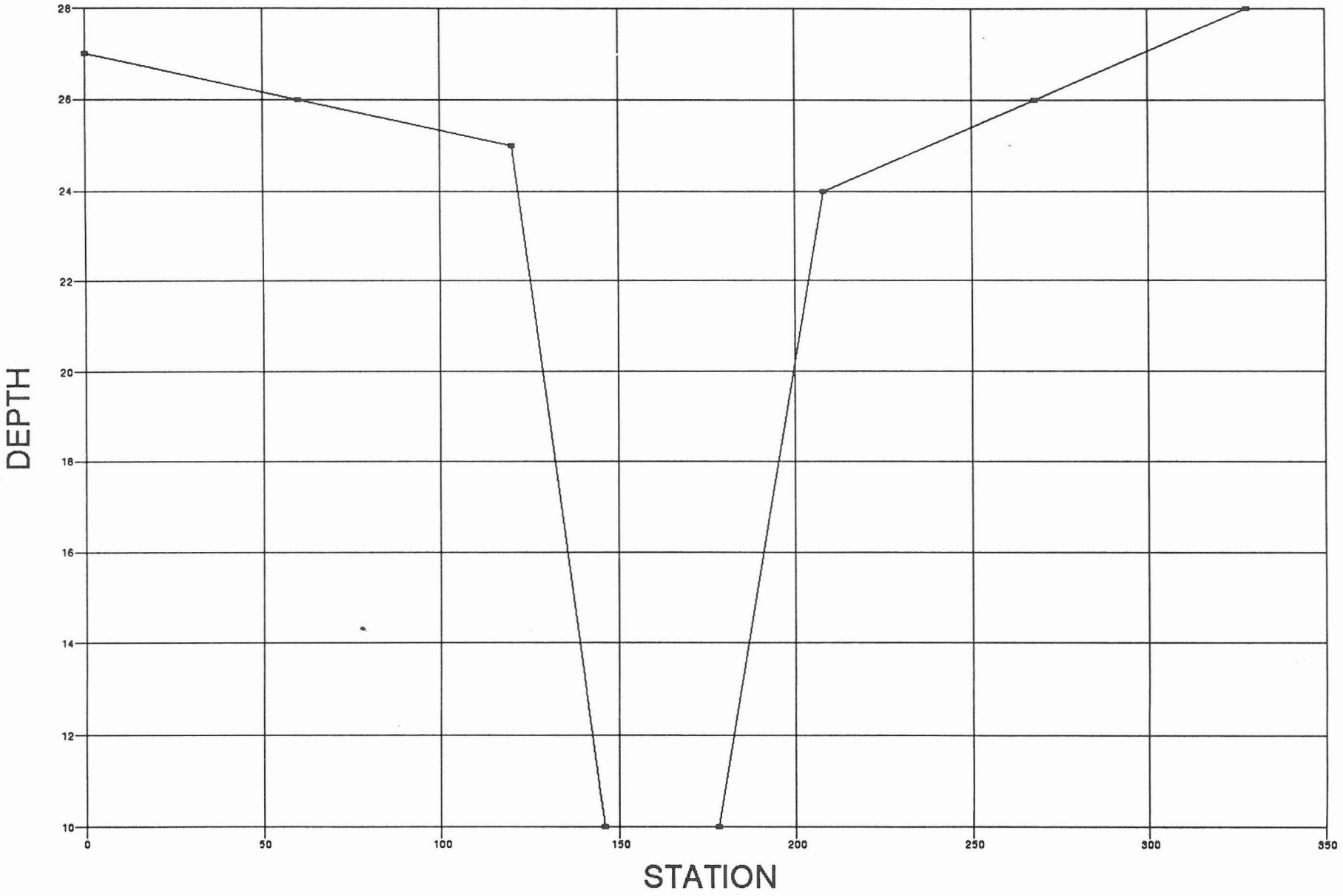
150
200
250
300
STATION

F2


28
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22
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18
16
14
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DEPTH
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200
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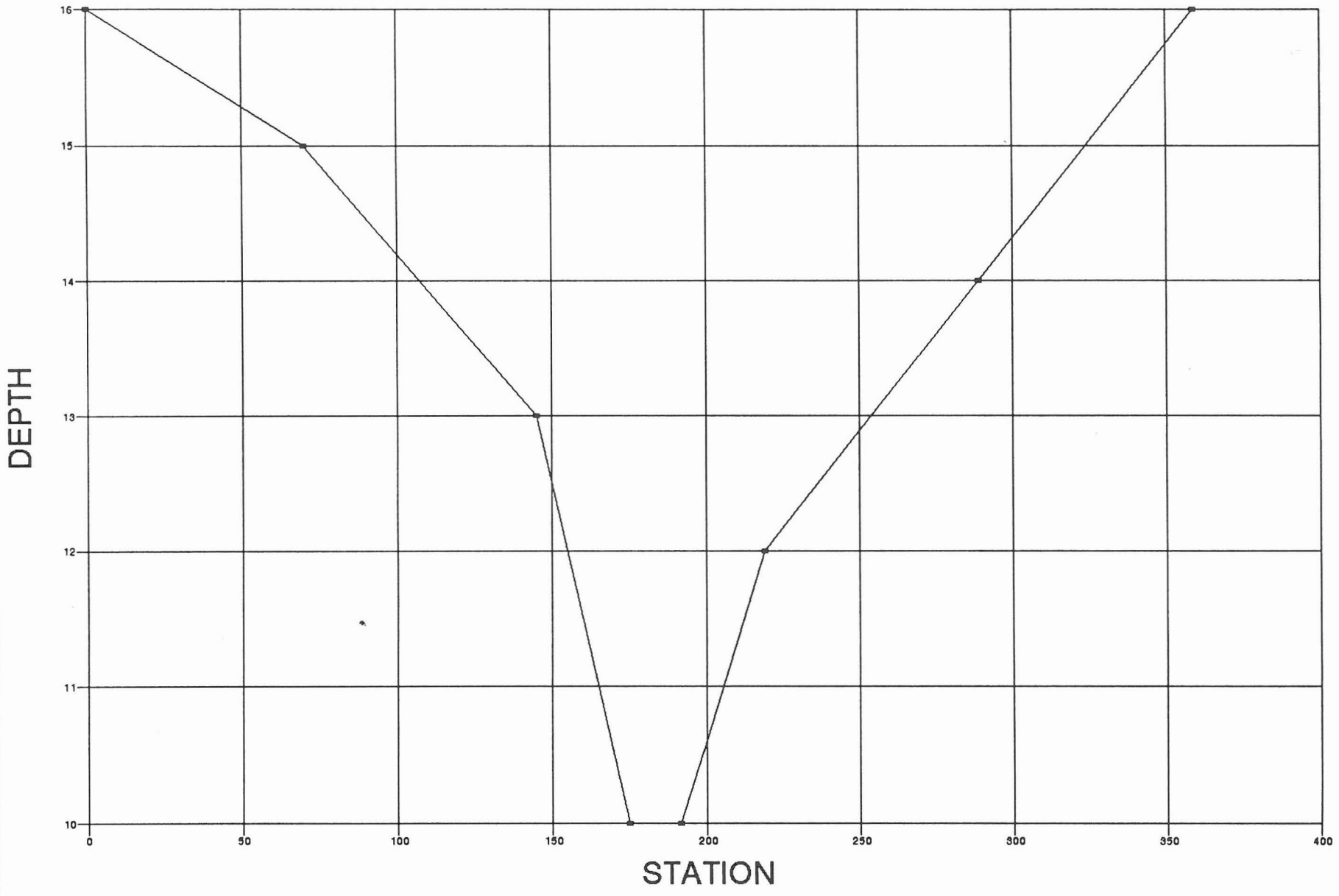
300
350
STATION

F3


DEPTH
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12
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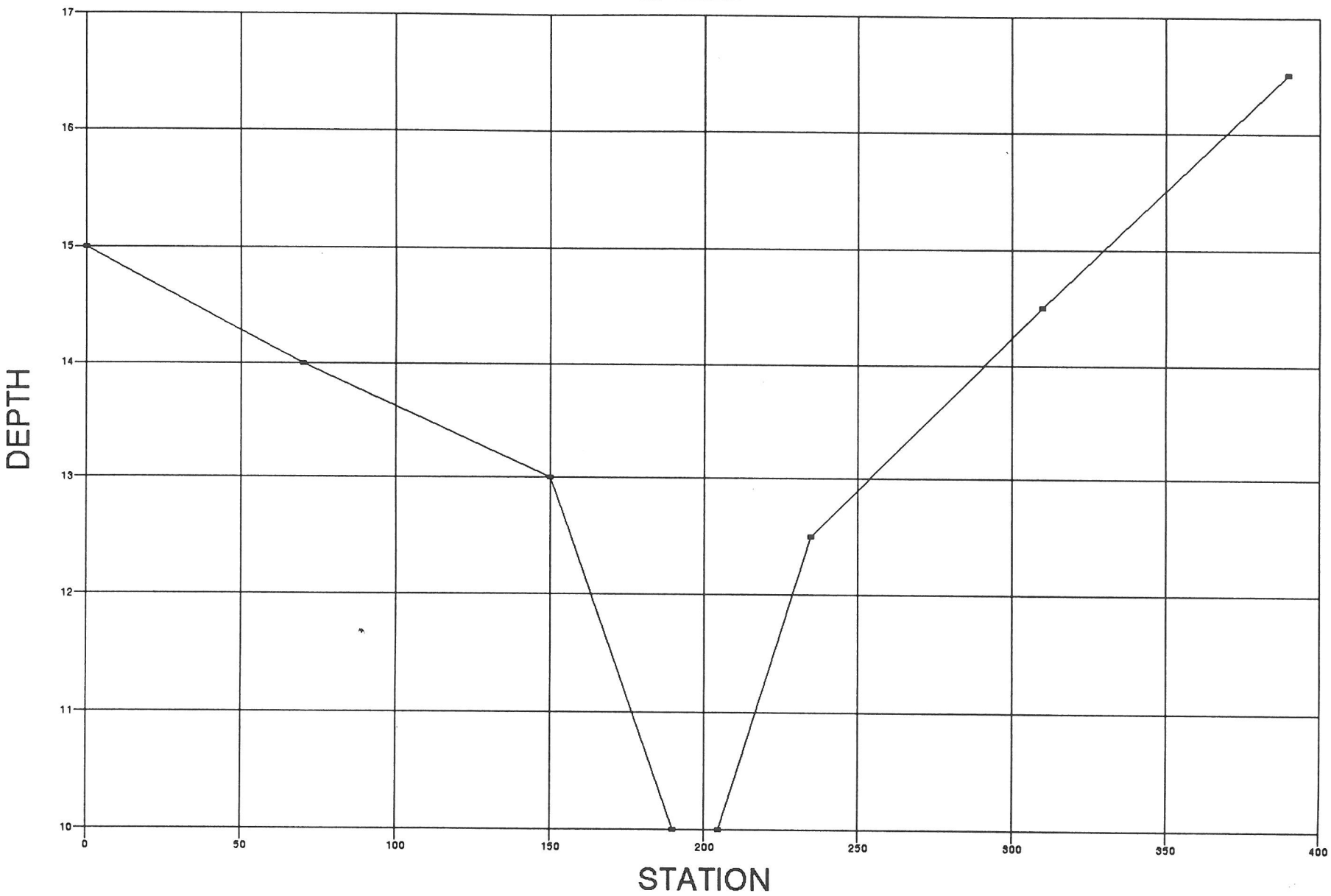
350
400
STATION

F4


DEPTH
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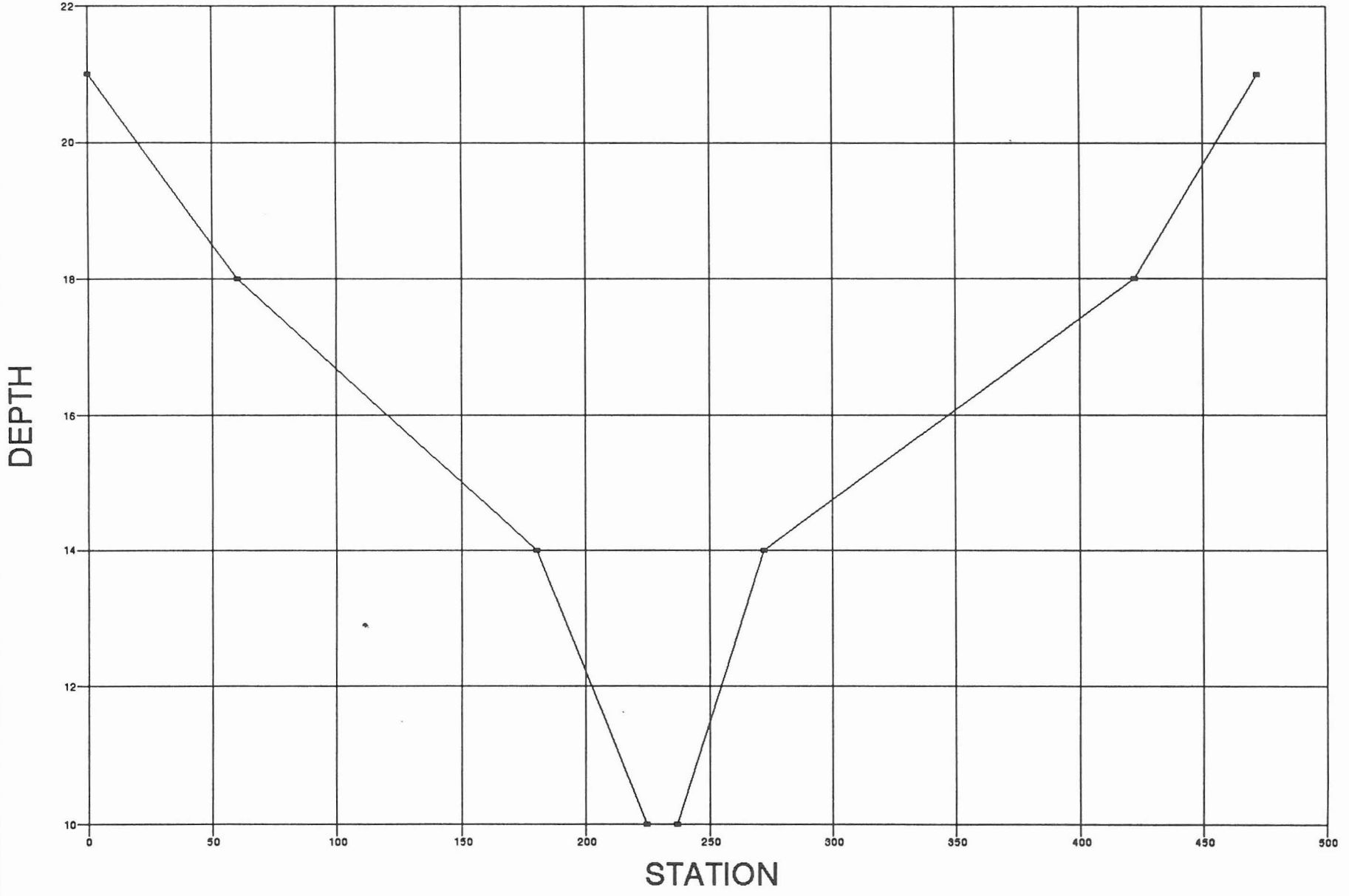
350
400
STATION

E4


22
20
18
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12
10
DEPTH
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150
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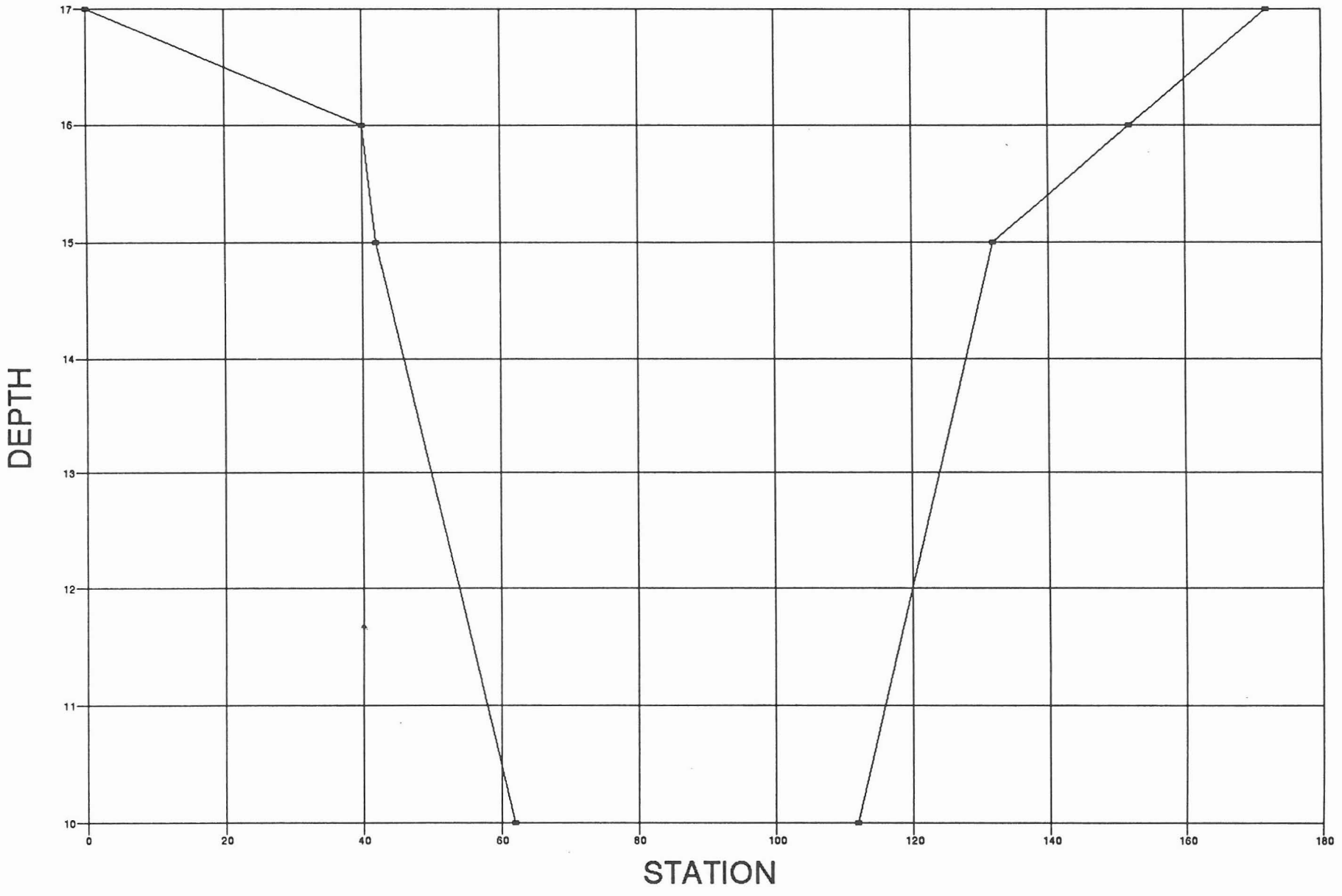
300
350
400
450
500
STATION

2F


DEPTH
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60
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100
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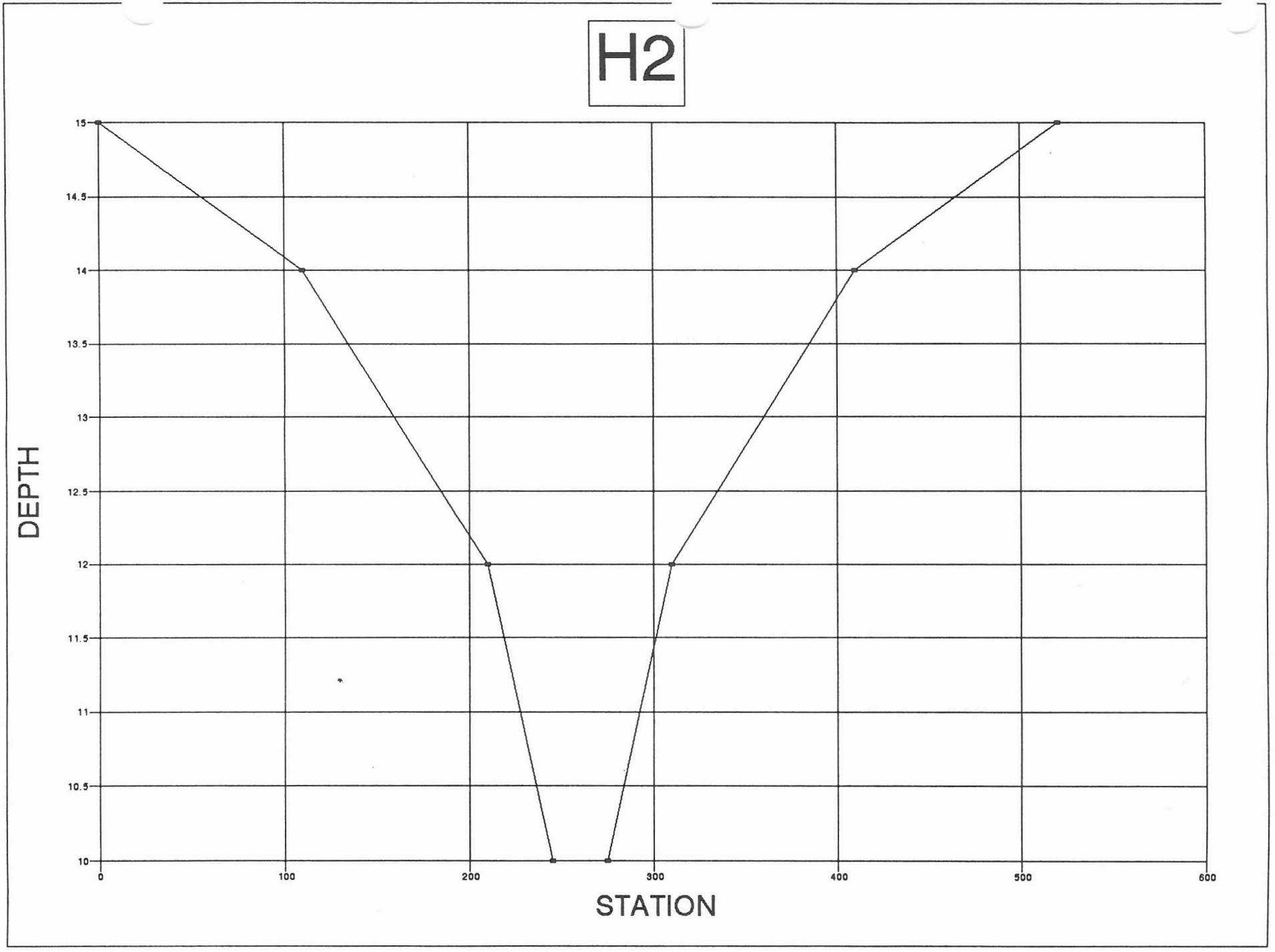
140
160
180
STATION

H2


DEPTH
15
14.5
14
13.5
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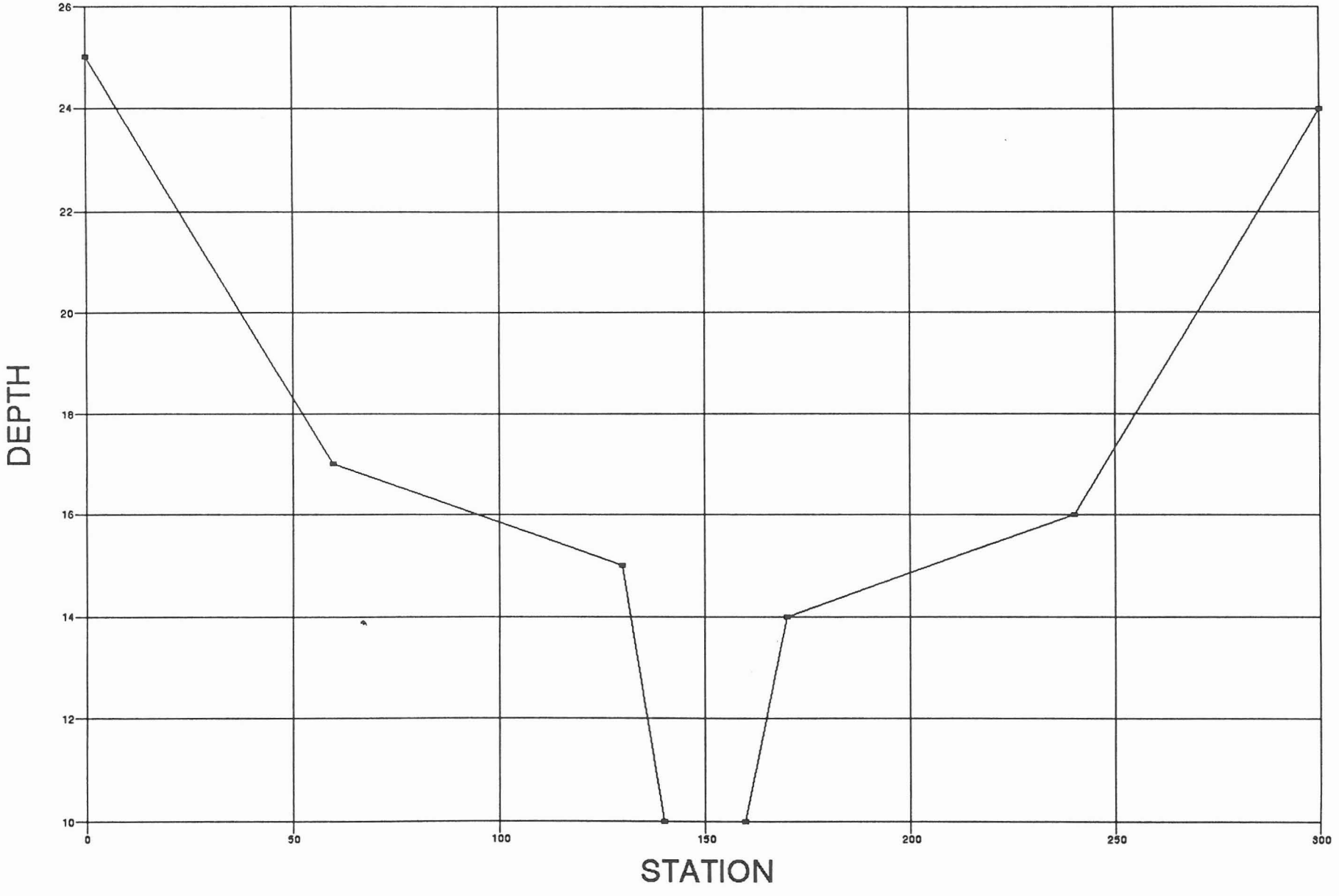
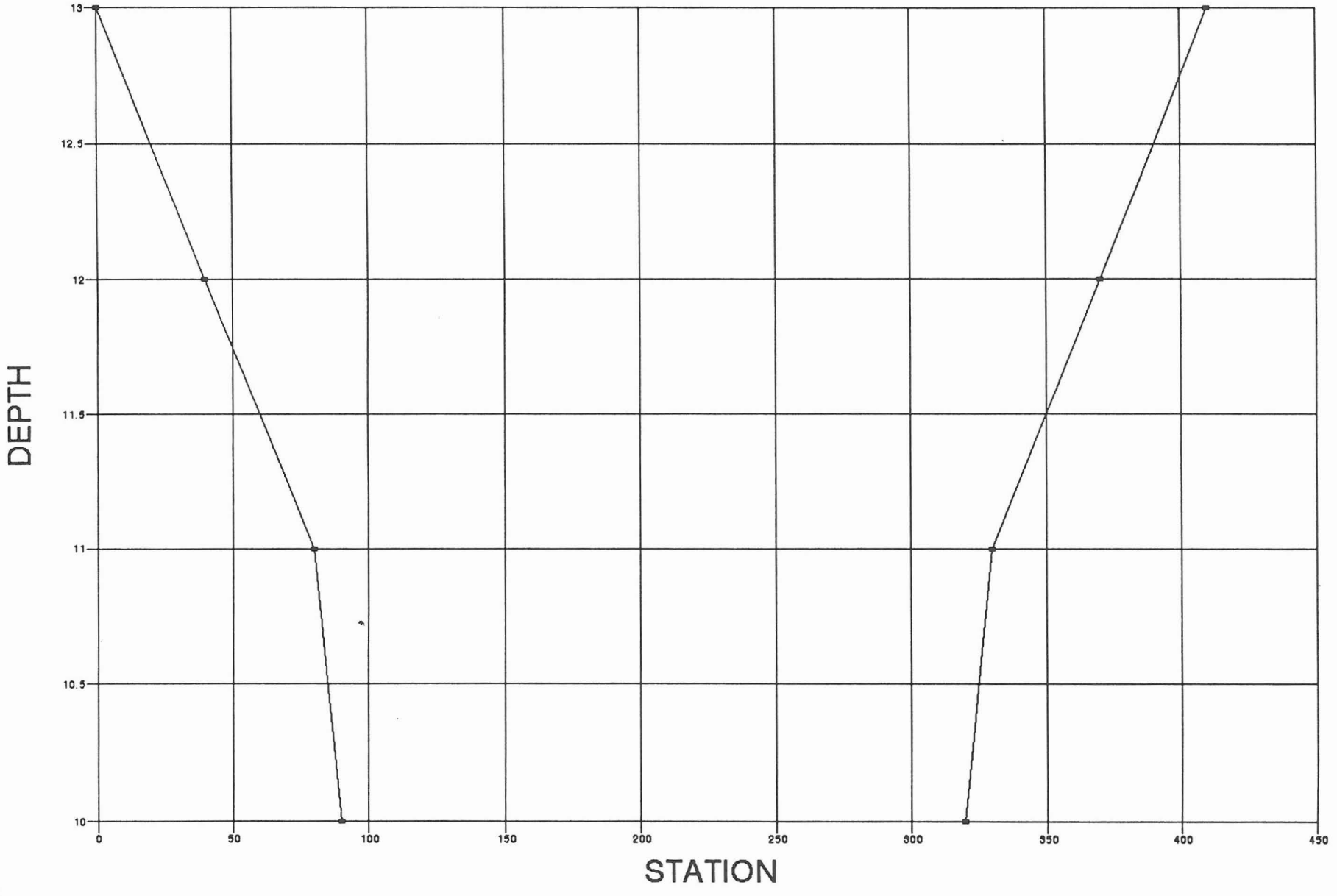
12
11.5
11
10.5
10
0
100
200
300
400
500
600
STATION

E5



J2


DEPTH
13
12.5
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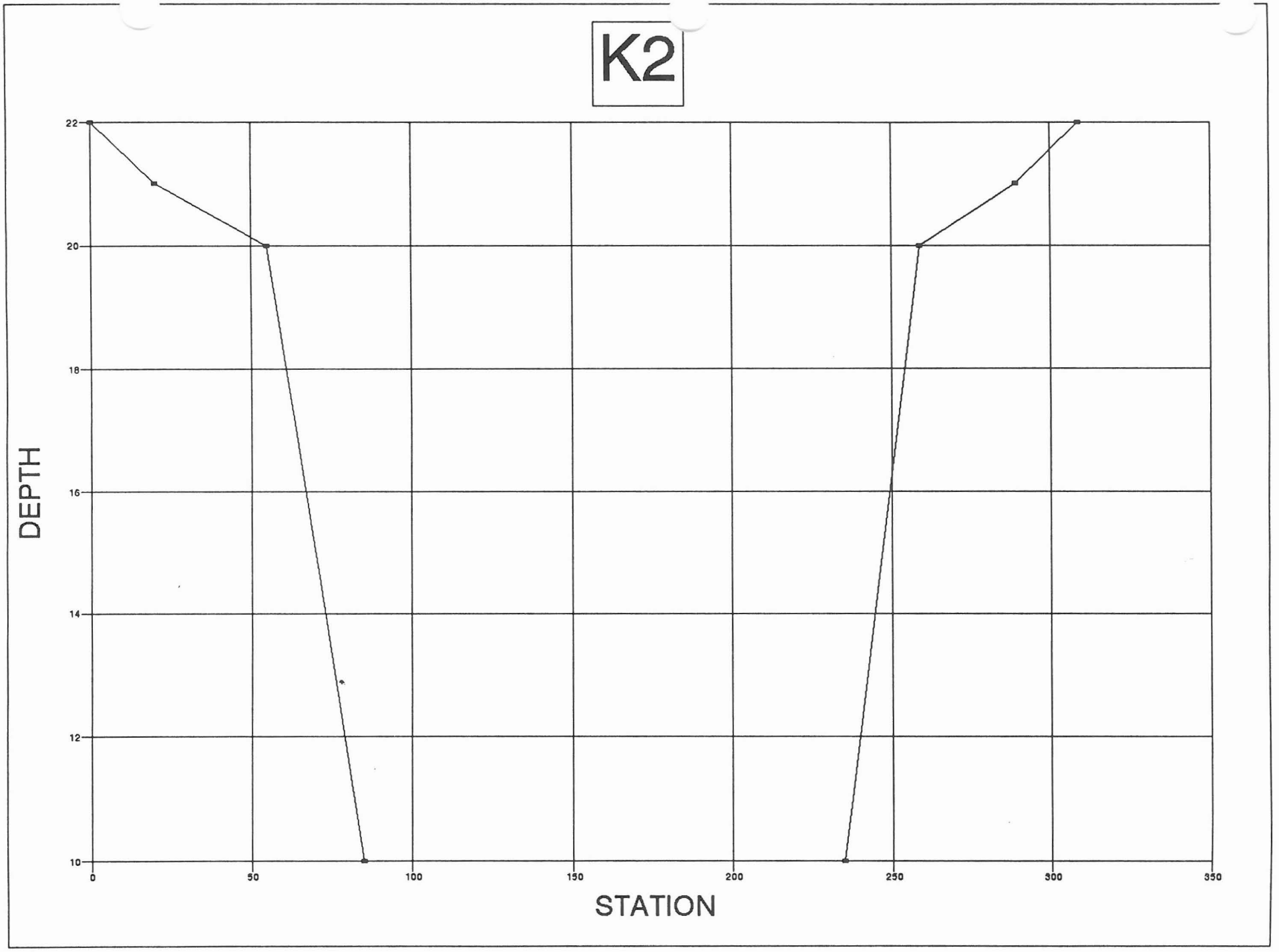
11.5
11
10.5
10
0
50
100
150
200
250
300
350
400
450
STATION


K2
DEPTH
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20
18
16
14
12
10
0
50
100
150
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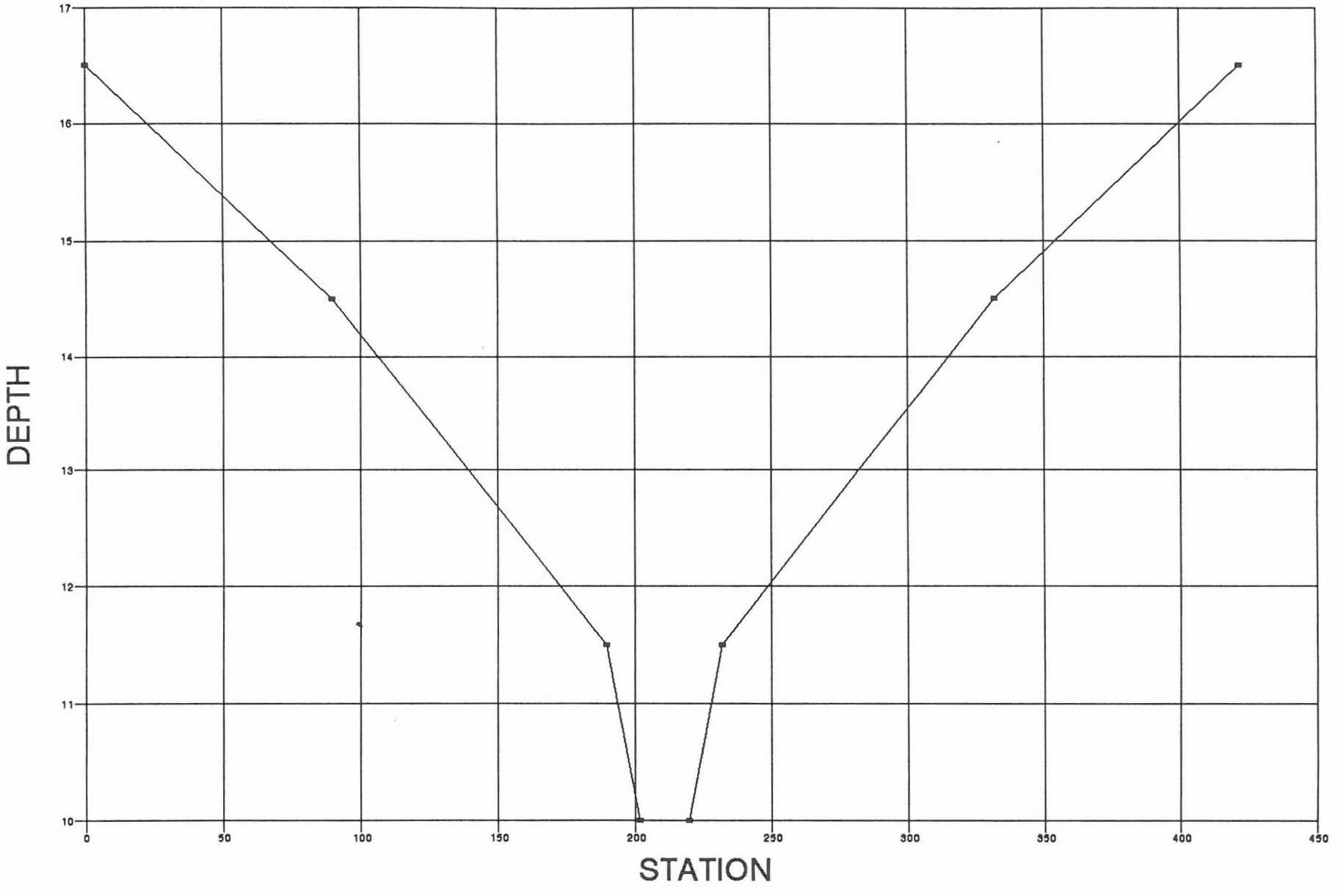
250
300
350
STATION

K3


DEPTH
17
16
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13
12
11
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100
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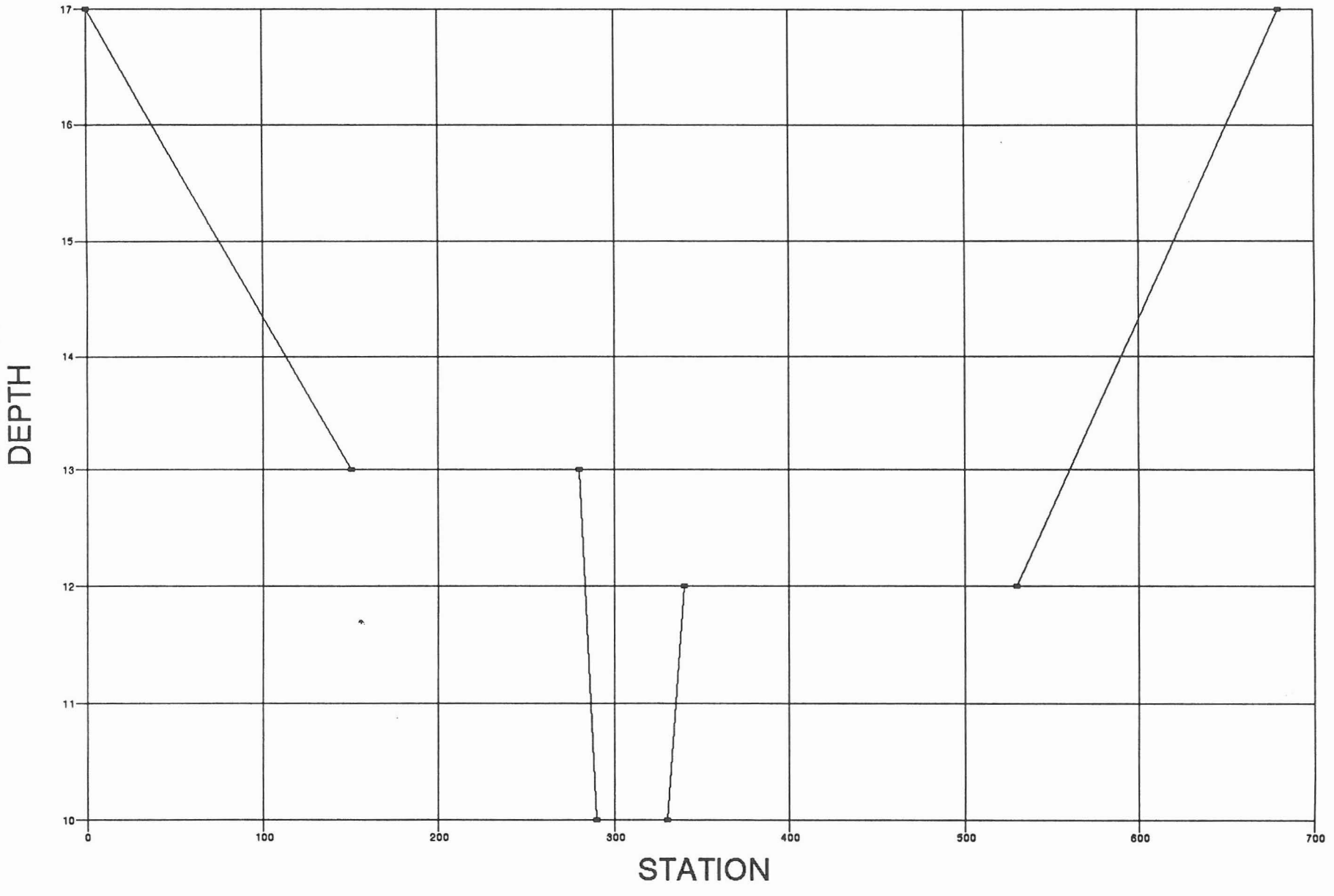
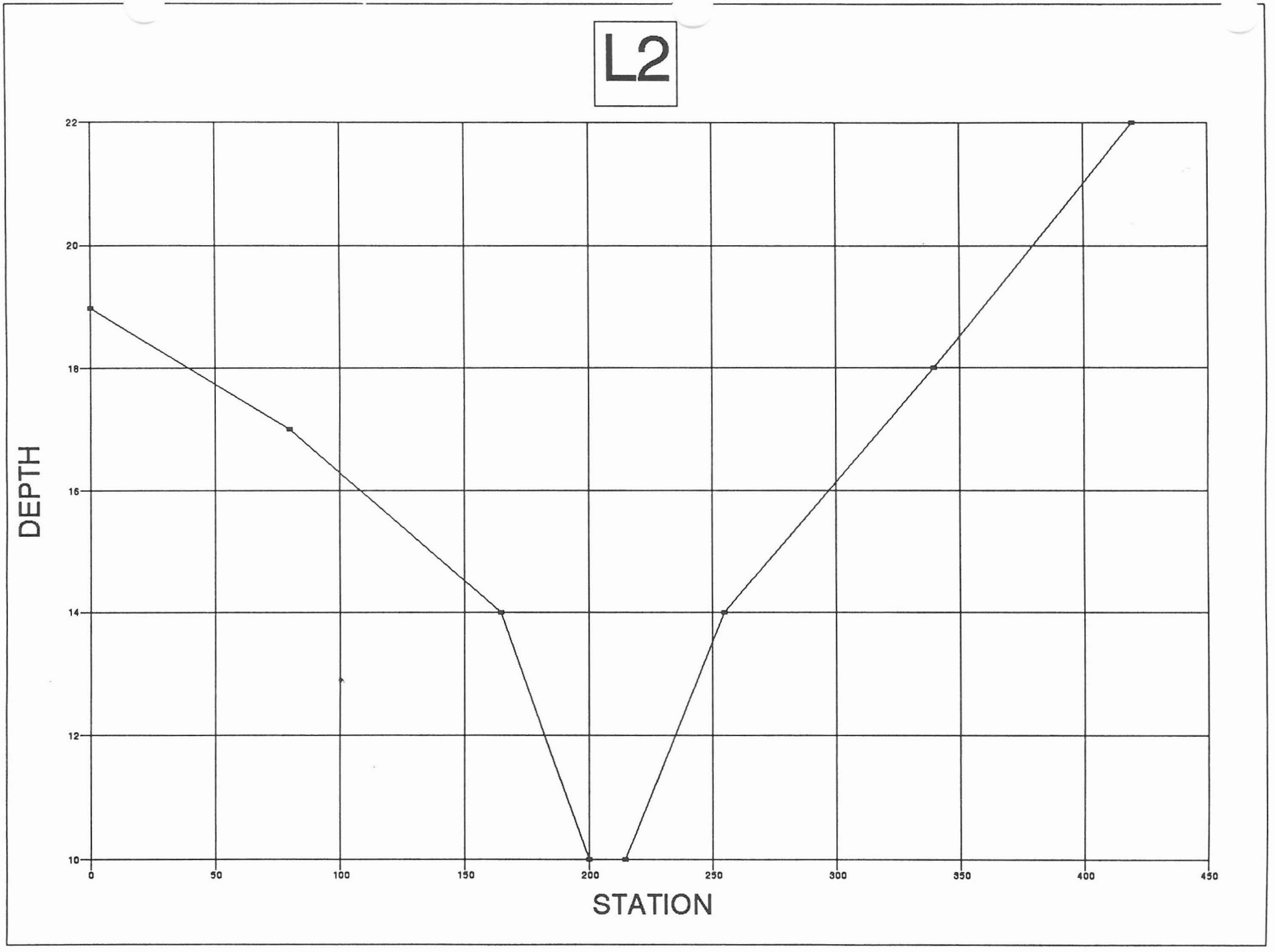
250
300
350
400
450
STATION

E6


DEPTH
17
16
15
14
13
12
11
10
0
100
200
300
400
500
600
700
STATION

L2


DEPTH
22
20
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16
14
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50
100
150
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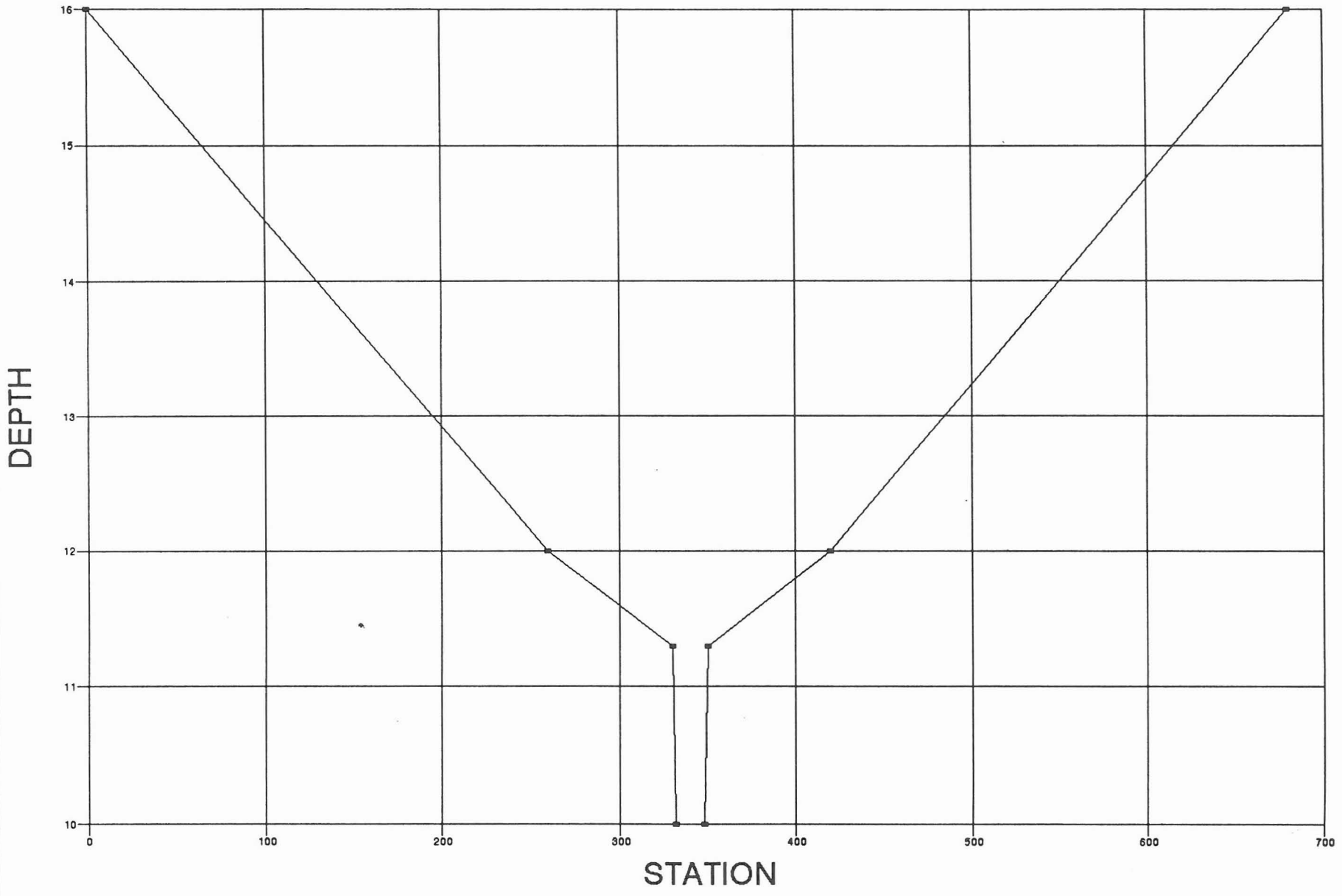
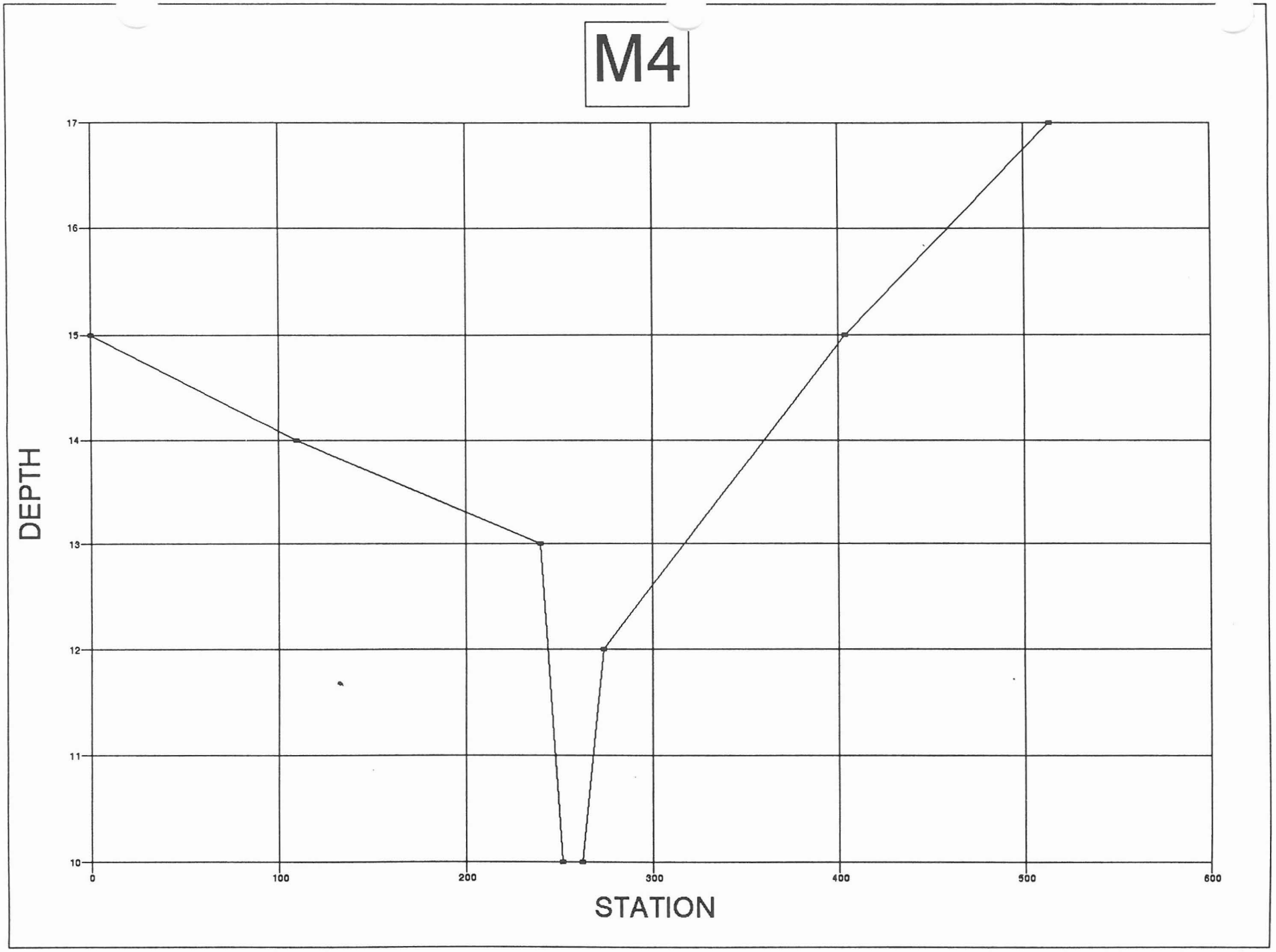
250
300
350
400
450
STATION

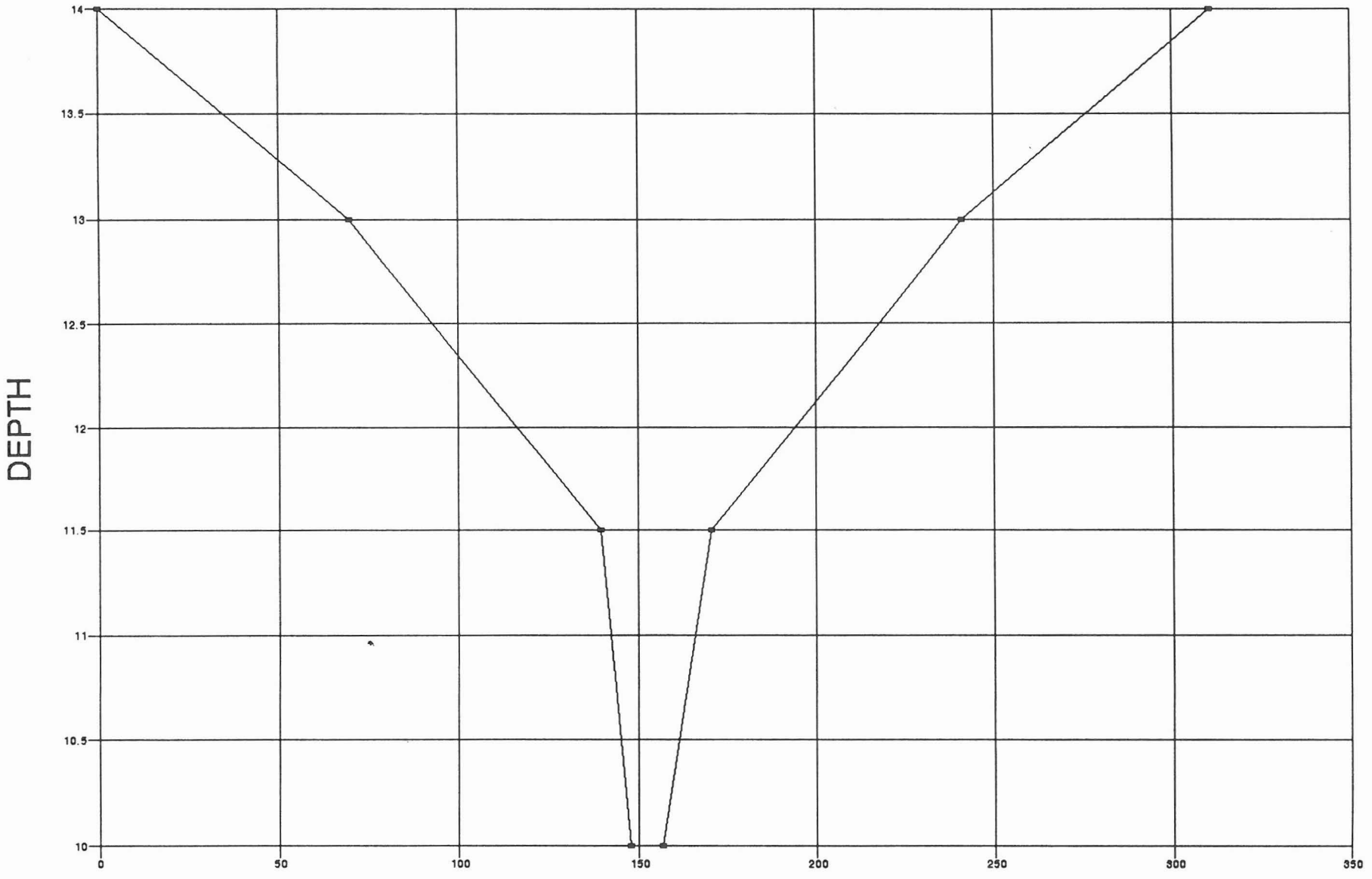
L3



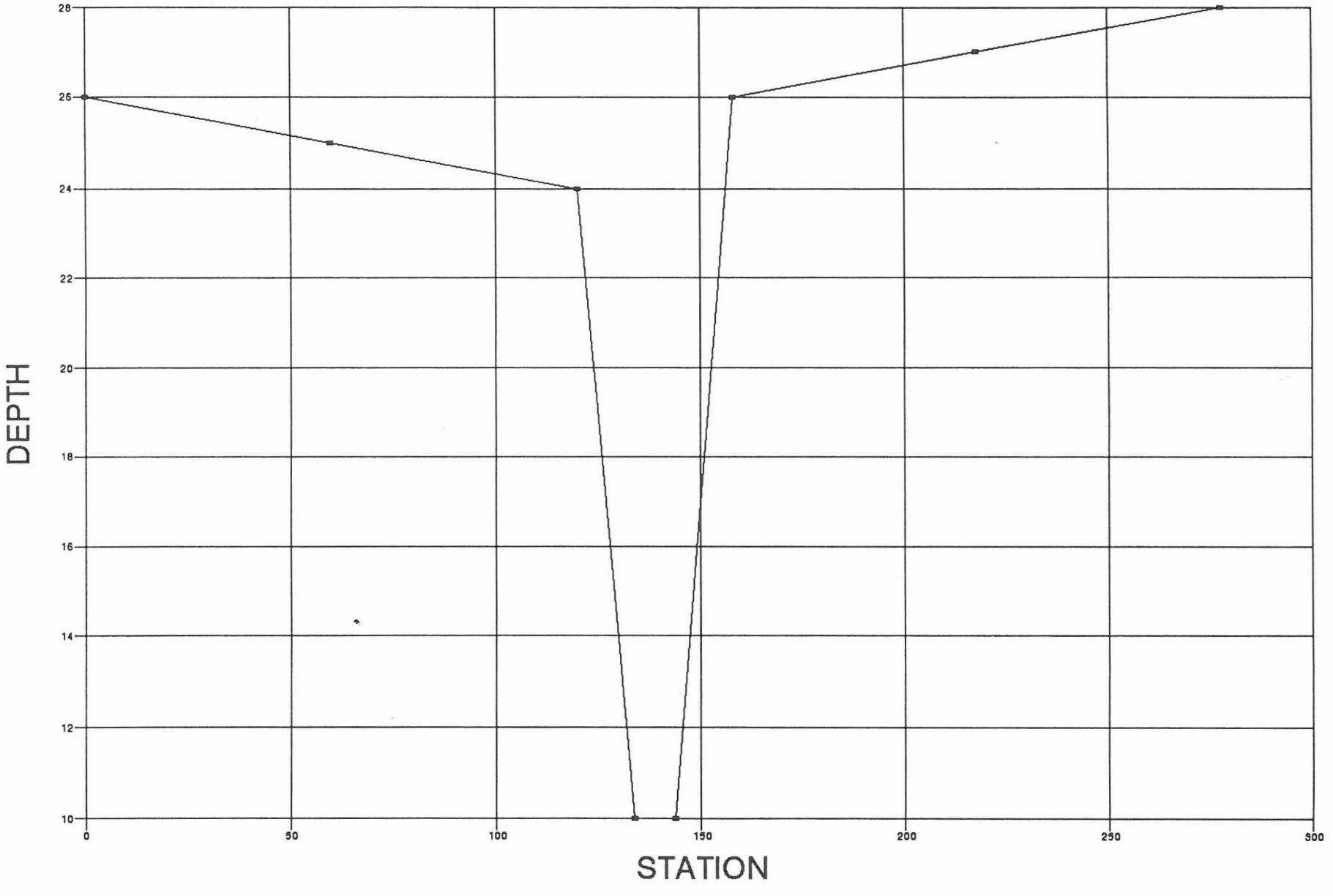
M4



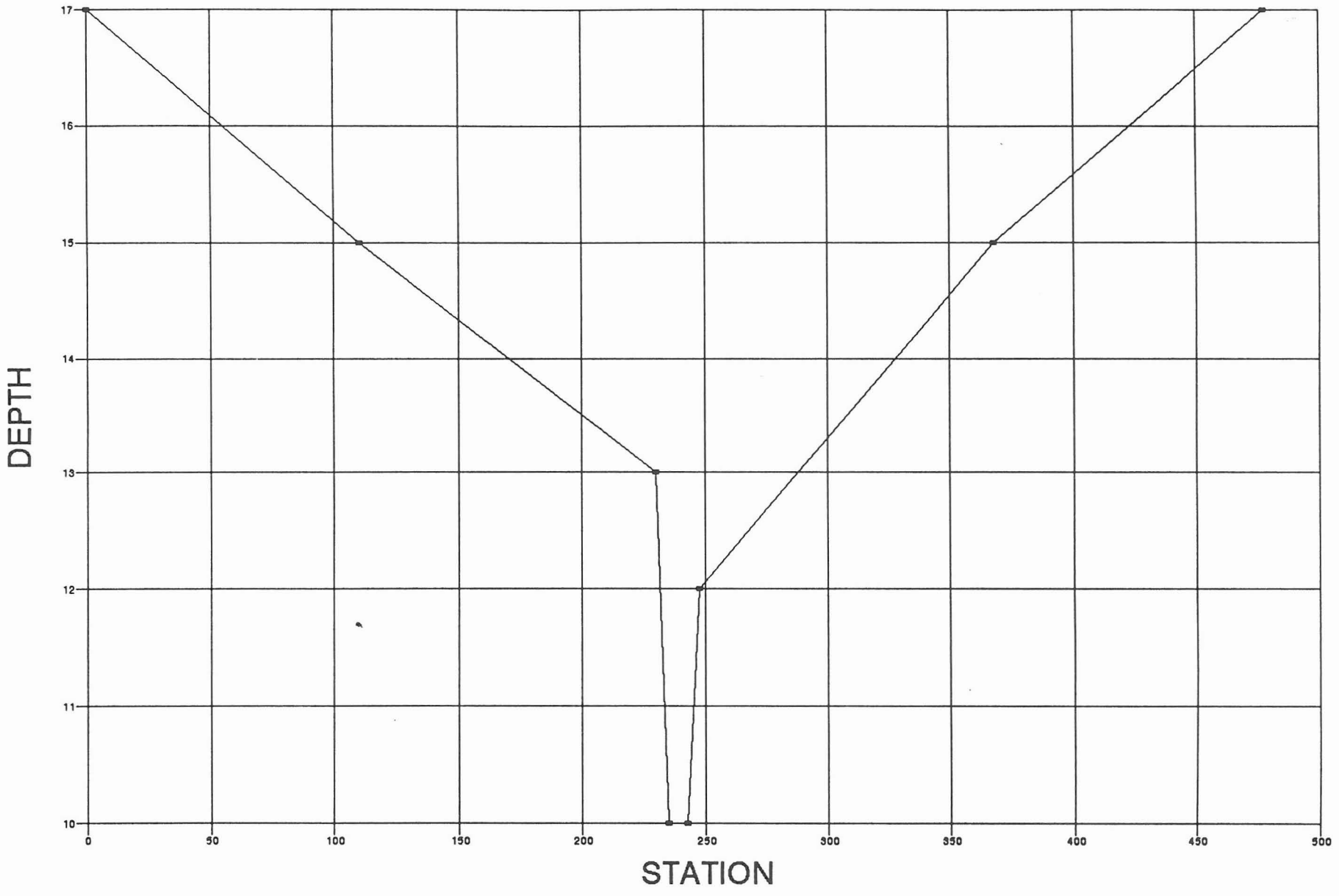
N2


14
13.5
13
12.5
12
11.5
11
10.5
10
DEPTH
0
50
100
150
200
250
300
350
STATION

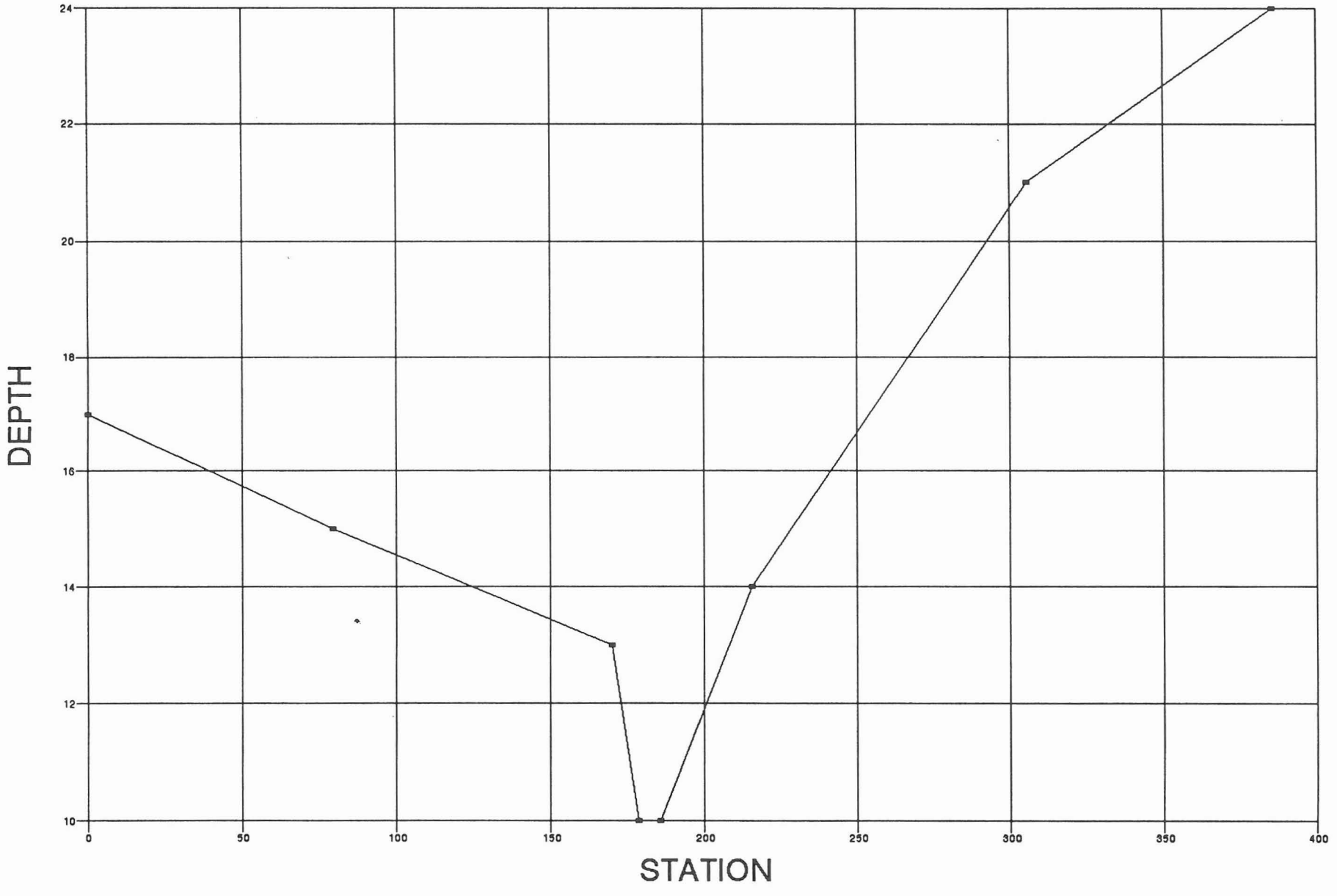
P2


28
26
24
22
20
18
16
14
12
10
DEPTH
0
50
100
150
200
250
300
STATION

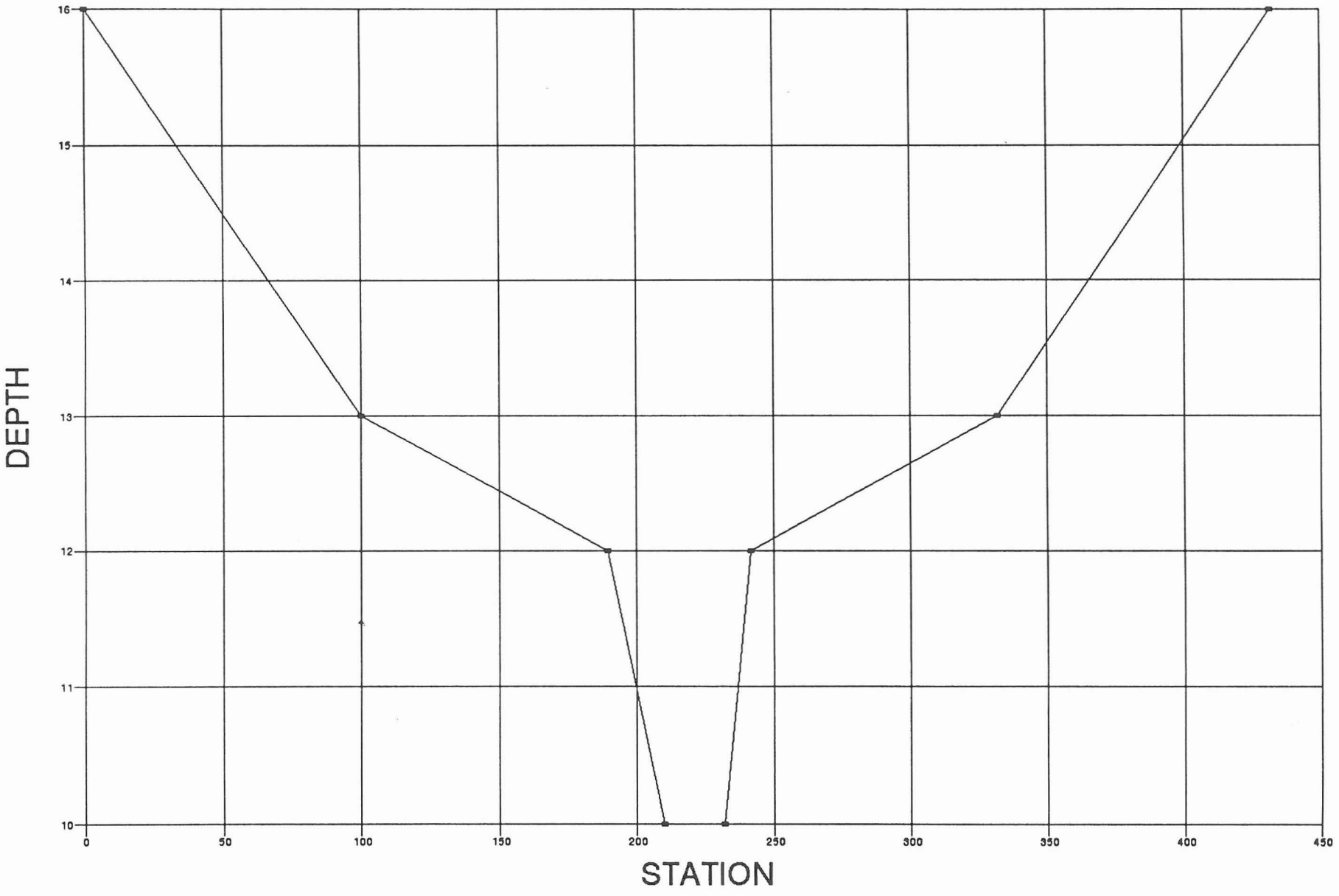
P3


DEPTH
17
16
15
14
13
12
11
10
0
50
100
150
200
250
300
350
400
450
500
STATION

Q2


DEPTH
24
22
20
18
16
14
12
10
0
50
100
150
200
250
300
350
400
STATION

W2


DEPTH
16
15
14
13
12
11
10
0
50
100
150
200
250
300
350
400
450
STATION

3.2.3 Statistical Parameters

The Flood Control District of Maricopa County has expended an extensive amount of effort to determine the statistical basis on which to compute flood studies. The results of those studies from their own efforts; the State of Alaska; the Federal government agencies, particularly the USCE, SCS and FEMA; and consulting engineers have been incorporated into the Hydrologic Design Manual (ref 29) and are used in this report.

3.2.4 Precipitation

This study is based on the 100-year storm recurrence interval. Both the 6- and 24-hour duration storms have been studied to determine the maximum peak outflow. The 6-hour storm uses a distribution developed by the FCDMC, based on the Corps of Engineer's Queen Creek areal reduction. The FCDMC program MCUHP2 was used to produce the input for HEC-1. Based on the basin area, the program interpolates between the closest two of six rainfall distributions.

The 24-hour storm uses an SCS Type II distribution and NOAA Hydro-40 areal reduction calculated in HEC-1.

For both storms, the point precipitation values were determined from the set of isopluvial maps in the Design Manual (extracted from NOAA Atlas 2, Vol VIII, Ref 62) and plotted on a partial duration series plot to obtain the final values of 4.20 inches for the 24-hour storm, and 3.24 inches for the 6-hour.

The total project area at 111.5 square miles is only slightly larger than the 100-square mile upper limit for local (6- hour) storms and well below the established minimum for major storms (24-hour). When the basin size is reduced to the 30 square miles of the White Tanks Wash, it is clearly within the size for the local storm. It was expected, therefore, that the controlling storm for this report would be the 6-hour duration storm. The results, however clearly indicated that the 24 hour SCS storm should be used as the design storm.

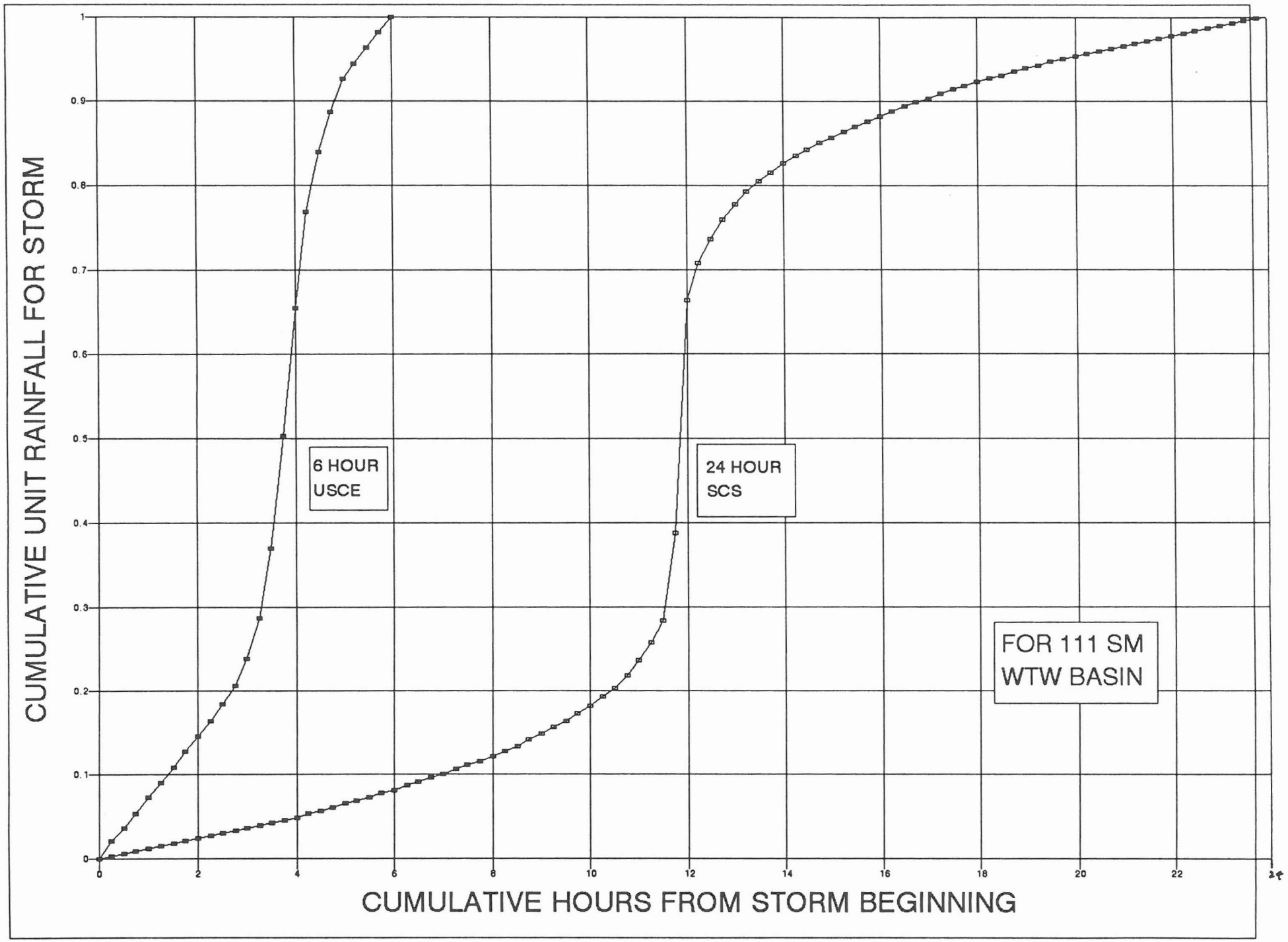
An analysis of the hyetographs and HEC-1 outputs for both storms confirms that this is true for all basins and combined basins. The rainfall unit hyetograph data for this project is plotted on the following pages as cumulative "S" curves and then as incremental intensity curves. It is apparent from the graphs that the 24-hour storm is more intense than the 6-hr. The maximum slope on the "S" curve, which is directly proportional to the intensity, for the 24-hour curve is steeper than the 6-hour. The unit intensity curve provides an even more graphic illustration with the maximum 15 minute unit intensity of 0.276 versus 0.152 for the 6-hour storm. In addition, the point rainfall of 3.55" for the 24-hour storm is also larger than the 6-hour. When the maximum incremental rainfalls of 0.28 and 0.16 for the 15 minute interval are multiplied by the point rainfall, the maximum 15 minute rainfall for the total basin is 1.00" and 0.41" for the 24-hour and 6-hour storms respectively.

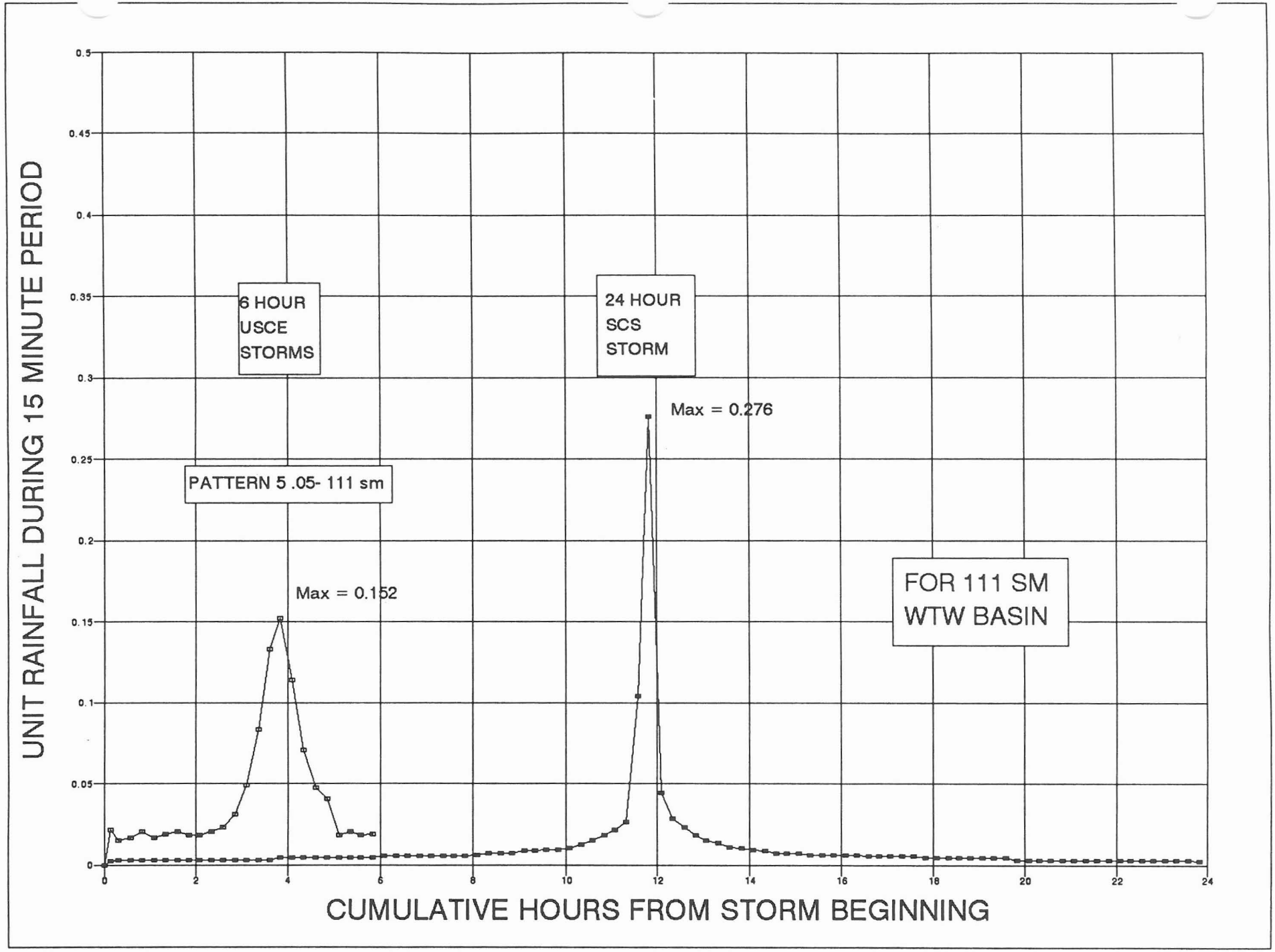
HEC-1 transforms rainfall excess from the unit rainfall hyetograph to a subbasin hyetograph by applying the areal reduction factor to the point rainfall and then essentially multiplying this reduced subbasin average rainfall rate by each ordinate in the unit hyetograph. The program adjusts the rainfall values for the infiltration and other losses. These losses essentially subtract identical intensities (not volumes) from the different 100 year storms. It then transforms the rainfall excess to subbasin outflow using the following formula:

$$Q(i) = \sum_{J=1}^{i} U(j) \times x(i-j+1)$$

Q(i) = basin outflow at end of computation interval i
U(j) = j th ordinate of the unit hydrograph
x(i) = average rainfall excess for computation interval i

The 24 hour storm produces larger runoff than the 6-hour storm in all basins and is used for all design in this project to provide a conservative design.


CUMULATIVE UNIT RAINFALL FOR STORM
CUMULATIVE HOURS FROM STORM BEGINNING
6 HOUR
USCE
24 HOUR
SCS
FOR 111 SM
WTW BASIN
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
0
2
4
6
8
10
12
14
16
18
20
22
24


UNIT RAINFALL DURING 15 MINUTE PERIOD
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
6 HOUR
USCE
STORMS
24 HOUR
SCS
STORM
Max = 0.276
PATTERN 5 .05- 111 sm
Max = 0.152
FOR 111 SM
WTW BASIN
0
2
4
6
8
10
12
14
16
18
20
22
24
CUMULATIVE HOURS FROM STORM BEGINNING

3.2.5 Gage Data

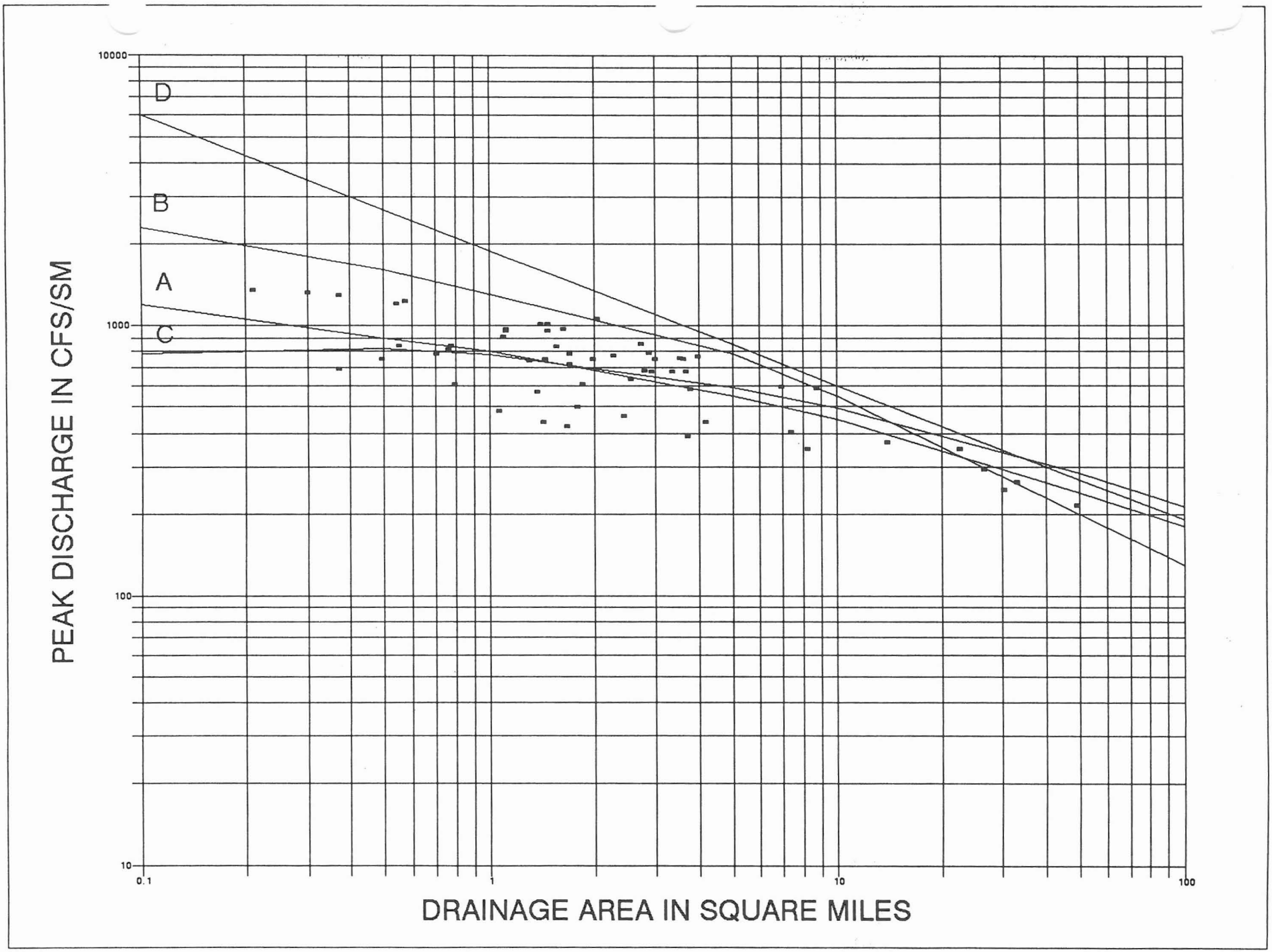
The FCDMC has compiled the gage records for Maricopa County. A review of those records indicates that there are no stream flow gages in the project area. The FCDMC has two rainfall gages in the project area: number 5430 at the top of the White Tank Mountains, which was installed on May 15, 1980; and number 5200, referred to as The Hassayampa and I-10 gage, near the outlet structure for Buckeye Structure Number 1, installed July 26, 1983. Neither the period of record nor the number of these gages is sufficient to justify any adjustment to the Maricopa County Isopluvial Maps derived from the NOAA Atlas 2, Volume VIII used in the Hydrologic Design Manual for Maricopa County. There is also a water surface level indicator installed near the outlet of each of the three Buckeye Structures. These would be useful for a calibration check on total flow into the Structures, but not for determining peak flows in individual streams. It is anticipated that a runoff-flood warning gage will be installed next year that will provide information that will permit some calibration of the data in this report in the future.

The nearest stream flow gage in a stream with similar watershed characteristics is USGS gage number 09512200 Salt River Tributary in South Mountain Park at Phoenix, Arizona (ref 65). The USGS estimate for the magnitude of the 100-year recurrence interval (1% exceedance probability) instantaneous peak flow is 3220 cfs. There are only 29 years of record at this site (1961-89) and therefore the reliability of the 100 year magnitude discharge is uncertain (25% certainty) and potential errors are large. The discharge per square mile of drainage basin is 1830 cfs per square mile, whereas the highest discharges per square mile for this study were just over 1300 cfs per square mile. This value should be compared to the White Tanks study area with considerable caution and judgement because only the mountainous zone is involved at South Mountain. The piedmont and incised areas are not represented. A different orientation to the southwestly to northeastly prevailing storm track is of significant importance. The South Mountain watershed is on the north slope whereas the White Tanks area is on the southwest slope. The South Mountain basin therefore is not only on the leeward side of the mountain, but also on the shaded north side with different vegetation. The typical cyclic nature of weather and runoff in southern Arizona is graphically demonstrated on this stream with periods of 3.6 and 2.4 years in which there was no recorded runoff at the gage site.

3.3 CALIBRATION

Calibration in the sense of comparing the computed runoff with gage data on White Tanks Wash is obviously impossible. The previous discussion in Section 3.2.5 indicates that comparison with a similar watershed is not practical. Lacking this data, the discharges were compared to generalized envelope curves. Four studies were used: one done world-wide by Creager on record floods (ref 21), Arizona record and computed floods by Allan Malvick (ref 40), the data compiled by the USGS on Maricopa County (ref 66) and a compilation of available data for Arizona in ADOT's Hydrology Manual (ref 7). These studies were combined onto a single graph and found to compare extremely well, considering the wide variation in climate involved. Maximum values for individual sub-basins, as well as the flow for the watershed, can be determined directly from this graph for any size area. This concept provides a reasonable standard for evaluating HEC-1 results.

The final data in cfs per square mile versus basin area for each subbasin and final discharge point are plotted on the combined graph on the next page. The project data can be compared with the 100-year peak discharge curves for average southern Arizona watersheds from Malvick's (A) and Eychaner's (B) data and with Creager's curve for C + 17 (C). The results generally compare well with these curves and are certainly within an acceptable range when the variations in the topography and soils are considered. All data points fall under the FCDMC curve (D) developed from the data in Reference 66. This curve (cfs/sm = 1900 * area$^{-.5}$) is a straight line on the log plot and can be expected to represent values that are high (and therefore conservative) for basins under one square mile in size.


PEAK DISCHARGE IN CFS/SM
10000
1000
100
10
D
B
A
C
0.1
1
10
100
DRAINAGE AREA IN SQUARE MILES

3.4 SPECIAL PROBLEMS/SOLUTIONS

Distributary Flow Areas

The piedmont area east of the Sun Valley Parkway to the base of the White Tank Mountains has several distributary flow areas that received special attention during this study. The reader is referred to USGS Water Resources Investigations Report #91-4171, Flood Hazards of Distributary Flow Areas in Southwestern Arizona (ref 67) and to the Arizona Geological Survey Report, Geologic Mapping of Flood Hazards in Maricopa County - White Tanks Mountains Flood Hazard Maps (ref 9) for more detailed information. Both of these studies specifically include the White Tanks Wash Study Area and the special hydraulic and physiographic characteristics of piedmont slope areas in southwestern Arizona. Distributary flow areas are defined in Reference 67 as areas where flood-flow in a single channel separates into two or more channels and is bounded by the areal extent of major floods. These channels may divide or join several times in the distributary flow area. Floodwater entering the gentler sloping peidmonts from the confining steeper ephemeral streams in the mountains commonly spreads into confined and unconfined distributary channels with a corresponding decrease of velocity and depth. The sediment-laden flow commonly is decreased further by infiltration into sandy channel beds. Because less water and thus less energy is available to transport sediment, deposition occurs in and along the channels. In places, distributary channels may completely fill with sediment resulting in channel avulsions. All the flow from smaller floods may be completely lost to infiltration, depositing its entire sediment load in the distributary flow area. Large floods will remobilize and transport the deposited sediment downstream. The small amount of data available indicates that the avulsion activity in southwestern Arizona is not substantial in relation to engineering time. The runoff and therefore the sediment load delivered during small floods is not substantial and is usually distributed over a significant area of stream bed resulting in deposited material in the tenths of a foot range in the deposition reach. When the infrequency of desert storms is combined with the flushing action of the occasional large storm, it is clear that most distributary flow areas can be considered to be relatively stable for engineering planning.

These distributary flow areas are often more akin to a braided stream than to the classic geological definition of an alluvial fan. If the distributary flow area is bordered by significant interfluves, the stream will migrate only within the area between the interfluves. In the piedmont area of this study, that condition exists at four of the distributary flow areas that have been identified. Each of the distributary flow areas was studied on the topographic maps, the aerial photos and then checked in the field and are discussed individually below. They are identified by the letter of the subbasin involved with M = 36, L = 37, J = 38, and F = 39 as numerically identified in the USGS Distributary Flow report (ref 67).

Area A is in the S½, Sec 21, T3N, R4W at Lat 33°35'02"N, Long 112°39'55"W about midway across the piedmont and 6000 to 7000 feet east of the Parkway. The main stream channel is confined upstream and downstream with two or three branches that separate and recombine in the distributary flow area. There is one small interconnection with subbasin B. The interfluve is lower than the 100 year flood level, but field observation of the ground surface and vegetation indicated that it is relatively stable and likely to pass only small flows in either direction depending upon the relative stages. Since this would tend to decrease the peaks slightly in both streams, the most conservative solution was to analyze them as separated basins.

Area B is near the south border of Sec 21, T3N, R4W at Lat 33°34'53"N, Long 112°40'27"W in the lower half of the piedmont and 3000 to 7000 feet east of the Parkway. The stream divides and recombines numerous times in the upstream portion of this distributary flow area and then into two branches that recombine at the downstream end. Off of the smaller of these two branches, a very small channel leads into subbasin C. Field observation of the vegetation and surface indicated the following: the channel has been stable, it is as likely to become plugged with sediment as to become a substantial branch, and it currently carries an insignificant flow for peak flow calculations.

Area C is near the center of Sec 28, T3N, R4W at Lat 33°34'26"N, Long 112°39'58"W in the lower half of the piedmont and 5000 to 6000 feet east of the Parkway. The stream divides and recombines numerous times in this distributary flow area and remains two branches at the Parkway before recombining downstream. The entire area was included in the single subbasin since it would be difficult to determine the relative flow in each branch during any individual storm. The distributary flow area is included within interfluves.

Area F is near the center of Sec 3, T2N, R4W at Lat 33°32'38"N, Long 112°38'35"W about midway across the piedmont and 6000 to 8000 feet east of the Parkway. The major channels are deeply incised and separated generally by high ridges. The main stream in subbasin F divides and recombines numerous times in the distributary flow area. The field observation found a 4-6 foot high interfluve that appeared to be quite stable and only overtopped during major floods. However it appeared that significant flows may be travelling underground and surfacing downstream in subbasin H. An estimate of the quantity involved would have been well beyond the scope of this project and, although probably decreasing the peak in subbasin F, would be unlikely to increase the peak in subbasin H. Since this ridge represented the only boundary that kept the subbasins separated and they were too large to combine, a method for calculating the cross-over flow was desired that would produce maximum peaks in each channel. The solution used for this study was to allow the flow to stay in subbasin F until it reached the Parkway. The flow across the Parkway was found to be limited by the culvert capacities, and the excess allowed to divert along the parkway into subbasin H. The diversion was larger than our field

estimates for the cross-over flow. This would result in a smaller peak flow in basin H because of a prolonged diversion at the two locations. The peak in basin F3 would probably not be affected since it is controlled by the capacity of the culverts at the Parkway. The selected solution, therefore, meets the objectives of this study.

Area J is in the southwest corner of Sec 10, T2N, R4W at Lat 33°31'35"N, Long 112°39'13"W in the lower half of the piedmont and about 6000 feet east of the Parkway on apparent old fan deposits. The channels are separated generally by low ridges with a few high ones. Although the stream divides and recombines several times in this distributary flow area, it basically stays within subbasin J. There are three very small flood channels that cross the dirt road that generally follows the divide between the basins. These channels appear to be quite stable and the total net flow between basins is insignificant.

Area L is in the corner of Sec 11, 12 and 14, T2N, R4W at Lat 33°31'23"N, Long 112°37'19"W in the upper piedmont and about 14000 to 16000 feet east of the Parkway. The channels are separated generally by low ridges with a few higher ones. The stream divides and recombines numerous times in this distributary flow area and stays separated to the Parkway and the Buckeye Structures. This subbasin is wider than desired so that all of the branch channels would be contained within the selected boundaries for this subbasin. This basin is bounded by similar basins on each side that will force the main stream to remain within the established boundaries. There is a very low probability that there will be any diversion outside of the subbasin in the next 100 years except possibly by man's actions.

Area M has two distributary flow areas. The upper one is in the southeast corner of Sec 14, T2N, R4W at Lat 33°30'52"N, Long 112°37'07"W in the upper piedmont at the base of the mountains and is 14000 to 16000 east of the Parkway. Two main channels about 400 feet apart are separated by low ridges and several stream channels. The channels remain divided until they combine at the northwest corner of hill "Spike". Downstream of this is the lower distributary flow area in the southwest corner of Section 23. The stream divides and remains separated to the Buckeye Structures. This subbasin is also wider than desired so that all of the branch channels are contained within the selected subbasin boundaries. There is a very low probability that there will be any diversion outside of the subbasin in the next 100 years except possibly by man's actions.

Area N is in the northwest corner of Sec 25, T2N, R4W at Lat 33°24'35"N, Long 112°37'27"W as the channel enters the piedmont at the base of the mountains and is about 16000 feet east of the Parkway. The channel is confined by the mountains and hill "Spike" and its branches recombine downstream. This subbasin's boundaries were selected so that all of the branch channels are contained within the subbasin. There is a very low probability that there will be any diversion outside of the subbasin in the next 100 years.

Culvert and Parkway Effects

The Sun Valley Parkway and the culverts crossing under it are a major influence on the flow regime in the study area as discussed above. Each culvert crossing was surveyed in the field and all of its hydraulic parameters determined, including the control weir data for the eastern roadside ditch. This data is tabulated in Book A, Section 2, Sun Valley Parkway Data. Bench mark locations and elevations were extracted from the Sun Valley Parkway As-built drawings to aid the field surveyors in location. Several of these bench marks were surveyed during the culvert survey. Data was also tabulated for the east roadside ditch and culverts from the as-builts. Several discrepancies were found in the data so it is of limited usefulness. Profiles of the ditches and the roadway centerline were digitized from the aerial photos and are included in Book A. This data was used for the diversion flow calculations.

A rating table was computed for each culvert structure and input into HEC-1. Each rating curve was terminated at the center of roadway elevation so that a warning would be given by HEC-1 if the Parkway was overtopped. This condition could then be studied on an individual basis. No occurrence of this was found for the 100-year event. These rating tables allowed the determination of the overflow diversion at each set of culverts when the bank is overtopped and flow is diverted into the roadside ditch. This diversion was added to the flow at the next culvert set and the process continued to the concrete channel at McDowell north of the Buckeye Structures. The only diversion between subbasins in the final data was from basin F to H as discussed on the preceding page. The rating curve data can be found on the following pages.

Storage & Impoundments

The "Tanks" for which the White Tanks Wash and White Tank Mountains are named are natural small rock ponds that are whiter than the surrounding rock because of limestone precipitation as the water evaporates. There are also a few small, old stock tanks in generally poor condition. None of these impoundments store enough water to have any measurable effect on the design flood flows. They are only of interest as sources of water for small numbers of animals between storms.

HEC-1 Warnings

The warnings generated by HEC-1 that remain are technical in nature and do not effect the result. Each warning was checked and the resolution noted in the output.

BASIN CONVEYANCE AT PARKWAY — CULVERT FLOW

CULVER ID	CULVER TYPE	NO	SPAN FT	RISE FT	HEAD FT	SLOPE FT/FT	FLOW CFS	TOTAL CFS
BASIN E2								
26	RCP-H	2	8.0	5.0	1.8	0.0160	588	
25C	CMPA-H	2	3.0	2.0	0.5	0.0096	50	
25	CBC-30	6	8.0	5.0	1.8	0.0035	2032	
24	CBC-90	3	10.0	3.0	1.6	0.0047	669	
23C	CMPA-H	2	3.0	2.0	1.4	0.0080	64	
23B	RCP-H	1	3.0	3.0	2.5	0.0080	66	
23A	RCP-H	1	3.0	3.0	3.0	0.0057	71	
23	CBC-30	1	10.0	4.0	2.6	0.0061	374	
22A	RCP-H	1	4.0	4.0	2.4	0.0067	122	4035
BASIN F3								
22	CBC-30	4	10.0	3.0	2.6	0.0037	1090	
21A	RCP-H	1	3.5	3.5	0.9	0.0100	69	
21	CBC-30	4	10.0	4.0	1.7	0.0032	1281	
20	CBC-30	1	6.0	3.0	1.1	0.0021	119	2559
BASIN H1								
19A	RCP-H	1	3.0	3.0	2.6	0.0048	67	
19	CBC-0	1	10.0	4.0	1.4	0.0048	284	
18	CBC-30	3	10.0	4.0	1.9	0.0039	999	
17	CBC-30	2	10.0	3.0	1.8	0.0028	471	
16	CBC-30	3	8.0	3.0	0.4	0.0027	362	2183
BASIN J1								
15B	RCP-H	1	2.5	2.5	0.1	0.0037	24	
15A	RCP-H	2	3.0	3.0	2.3	0.0083	129	
15	CBC-30	1	6.0	3.0	1.9	0.0052	144	
14B	RCP-H	2	2.5	2.5	1.1	0.0085	68	
14A	RCP-H	1	3.5	3.5	1.8	0.0047	83	
14	CBC-30	1	10.0	3.0	1.4	0.0020	215	
13	CBC-30	4	10.0	4.0	0.9	0.0044	1053	1717
BASIN K2								
12	CBC-30	3	10.0	3.0	1.3	0.0020	628	
11	CBC-30	6	10.0	4.0	2.1	0.0024	2070	2698
BASIN L2								
10A	RCP-H	1	3.5	3.5	1.6	0.0057	80	
10	CBC-30	1	10.0	3.0	1.5	0.0028	220	
9	CBC-30	2	10.0	3.0	1.6	0.0024	451	
8	CBC-30	2	10.0	3.0	1.4	0.0036	430	
7	CBC-30	3	10.0	3.0	1.4	0.0040	645	
6	CBC-30	4	10.0	3.0	1.1	0.0034	792	
5	CBC-30	6	10.0	4.0	1.1	0.0034	1671	
4	CBC-30	2	8.0	3.0	0.6	0.0036	265	
3A	RCP-H	1	2.5	2.5	0.1	0.0039	24	
3	CBC-30	6	10.0	3.0	1.0	0.0037	1151	
2A	RCP-H	1	3.5	3.5	0.7	0.0060	66	
2	CBC-30	3	10.0	3.0	1.1	0.0060	594	
1	CBC-30	3	10.0	3.0	0.4	0.0044	453	6842
BASIN M4								
						TOTAL CAPACITY		20034

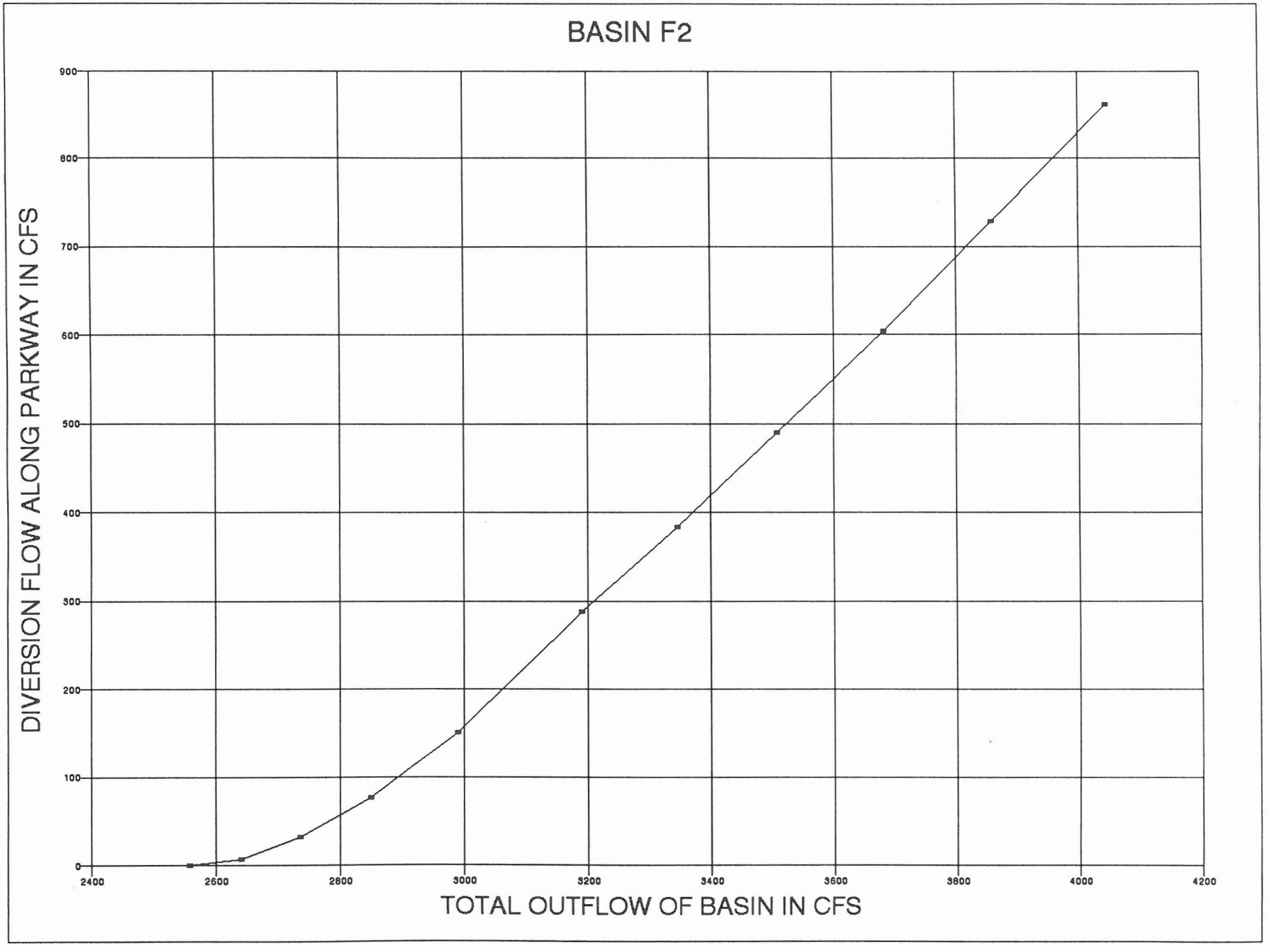
BASIN CONVEYANCE AT PARKWAY							CULVERT FLOW		OVERFLOW IN DITCH				
CULV ID	CULV TYPE	#	SPAN FT	RISE FT	HEAD FT	SLOPE FT/FT	FLOW CFS	TOTAL CFS	OHEAD FT	LENGTH FT	OFLOW CFS	TOTAL CFS	
BASIN E2	CBC-30	1	10	4	2.6	0.0061	374	4035	0.0	7	0	4035	1266
23	CBC-30	1	10	4	2.9	0.0061	391	4051	0.3	14	6	4057	
	CBC-30	1	10	4	3.2	0.0061	406	4067	0.6	21	27	4094	
	CBC-30	1	10	4	3.5	0.0061	421	4082	0.9	28	67	4149	
	CBC-30	1	10	4	3.8	0.0061	436	4097	1.2	35	132	4228	
	CBC-30	1	10	4	4.1	0.0061	450	4111	1.5	50	267	4377	
BASIN F3	CBC-30	4	10	4	1.7	0.0032	1281	2559	0.0	8	0	2559	2565
21	CBC-30	4	10	4	2.0	0.0032	1356	2634	0.3	16	7	2641	
	CBC-30	4	10	4	2.3	0.0032	1428	2706	0.6	24	31	2737	
	CBC-30	4	10	4	2.6	0.0032	1496	2774	0.9	32	77	2851	
	CBC-30	4	10	4	2.9	0.0032	1561	2839	1.2	40	150	2990	
	CBC-30	4	10	4	3.2	0.0032	1624	2902	1.5	54	288	3190	
	CBC-30	4	10	4	3.5	0.0032	1684	2962	1.8	54	384	3346	
	CBC-30	4	10	4	3.8	0.0032	1743	3020	2.1	54	489	3510	
	CBC-30	4	10	4	4.1	0.0032	1799	3077	2.4	54	605	3681	
	CBC-30	4	10	4	4.4	0.0032	1853	3131	2.7	54	729	3860	
	CBC-30	4	10	4	4.7	0.0032	1907	3184	3.0	54	862	4046	
BASIN H1	CBC-30	3	8	3	0.4	0.0032	362	2183	0.0	9	0	2183	3185
16	CBC-30	3	8	3	0.9	0.0032	446	2267	0.5	18	17	2284	
	CBC-30	3	8	3	1.4	0.0032	516	2337	1.0	27	76	2413	
	CBC-30	3	8	3	1.9	0.0032	577	2398	1.5	36	192	2590	
	CBC-30	3	8	3	2.4	0.0032	633	2454	2.0	44	369	2823	
	CBC-30	3	8	3	2.9	0.0032	684	2505	2.5	58	693	3198	
	CBC-30	3	8	3	3.1	0.0032	703	2525	2.7	58	783	3307	
	CBC-30	3	8	3	3.4	0.0032	732	2553	3.0	58	926	3478	
BASIN J1	CBC-30	4	10	4	0.9	0.0032	1053	1716	0.0	9	0	1716	404
13	CBC-30	4	10	4	1.4	0.0032	1200	1863	0.5	19	18	1882	
	CBC-30	4	10	4	1.9	0.0032	1332	1995	1.0	28	79	2074	
	CBC-30	4	10	4	2.4	0.0032	1451	2114	1.5	38	203	2317	
	CBC-30	4	10	4	2.8	0.0032	1540	2203	1.9	45	348	3047	
	CBC-30	4	10	4	3.2	0.0032	1624	2287	2.3	60	628	2915	
BASIN K2	CBC-30	6	10	4	2.1	0.0032	2071	2699	0.0	7	0	2699	1122
11	CBC-30	6	10	4	2.5	0.0032	2211	2838	0.4	15	10	2849	
	CBC-30	6	10	4	2.9	0.0032	2342	2970	0.8	22	44	3014	
	CBC-30	6	10	4	3.3	0.0032	2467	3094	1.2	29	109	3203	
	CBC-30	6	10	4	3.7	0.0032	2585	3213	1.6	36	213	3425	
	CBC-30	6	10	4	4.0	0.0032	2670	3298	1.9	48	371	3670	
BASIN L2	CBC-30	3	10	3	0.4	0.0032	453	6842	0.0	10	0	6842	2510
1	CBC-30	3	10	3	0.9	0.0032	557	6946	0.5	22	21	6967	
	CBC-30	3	10	3	1.4	0.0032	645	7034	1.0	34	96	7130	
	CBC-30	3	10	3	1.9	0.0032	722	7111	1.5	47	251	7361	
	CBC-30	3	10	3	2.3	0.0032	778	7167	1.9	54	418	7585	
	CBC-30	3	10	3	2.7	0.0032	830	7219	2.3	64	670	7889	

SUBMERGED INLET CONTROL LOOKUP TABLE

CULVERT	GRAPH	c	y	s
CBC-0	4-3	0.0423	0.82	1
CBC-18	5-2	0.0249	0.83	1
CBC-30	4-1	0.0385	0.81	1
CBC-45	5-1	0.0309	0.80	1
CBC-90	4-2	0.0400	0.80	1
CMA-H	9-1	0.0379	0.69	0.7854
CMA-M	9-2	0.0463	0.75	0.7854
CMA-P	9-3	0.0496	0.57	0.7854
CMP-H	2-1	0.0379	0.69	0.7854
CMP-M	2-2	0.0463	0.75	0.7854
CMP-P	2-3	0.0553	0.54	0.7854
CMPA-H	6-1	0.0496	0.57	0.7854
CMPA-M	6-2	0.0463	0.75	0.7854
CMPA-P	6-3	0.0496	0.53	0.7854
PA7-B	7-3	0.0264	0.75	0.7854
PA7-P	7-1	0.0487	0.55	0.7854
PA7-S	7-2	0.0361	0.66	0.7854
PA8-B	8-3	0.0264	0.75	0.7854
PA8-P	8-1	0.0487	0.55	0.7854
PA8-S	8-2	0.0361	0.66	0.7854
RCP-33	3-B	0.0243	0.83	0.7854
RCP-45	3-A	0.0300	0.74	0.7854
RCP-G	1-2	0.0292	0.74	0.7854
RCP-H	1-1	0.0398	0.67	0.7854
RCP-P	1-3	0.0317	0.69	0.7854

NOTES:
The equations used herein are from USBPR HDS #5 and are the basis for the charts dated Jan 1963.
The charts are the same as those used by ADOT, FCDMC, COS, ODOT
They are only valid for submerged conditions where Q/AD^.5 > 4.0.
The charts use a culvert slope of 2% and are only within 10% of the correct answers
Other types of culverts can be added by inserting the values of c and y in the table.
ODOT manual has the values on page 26.
The area of arch culverts is = to circular with a dia = to the (span + rise) /2

The overflow equation is the broad crested weir formula C = KCLH^1.5
See page 4-96 and 97 of FCDMC Drainage Manual
These equations use a gravel surface with C = 2.5 + .33(H)^0.5 (see chart B)


BASIN F2
DIVERSION FLOW ALONG PARKWAY IN CFS
900
800
700
600
500
400
300
200
100
0
2400
2600
2800
3000
3200
3400
3600
3800
4000
4200
TOTAL OUTFLOW OF BASIN IN CFS

3.5 FINAL RESULTS/COMPUTER RUNS

Results

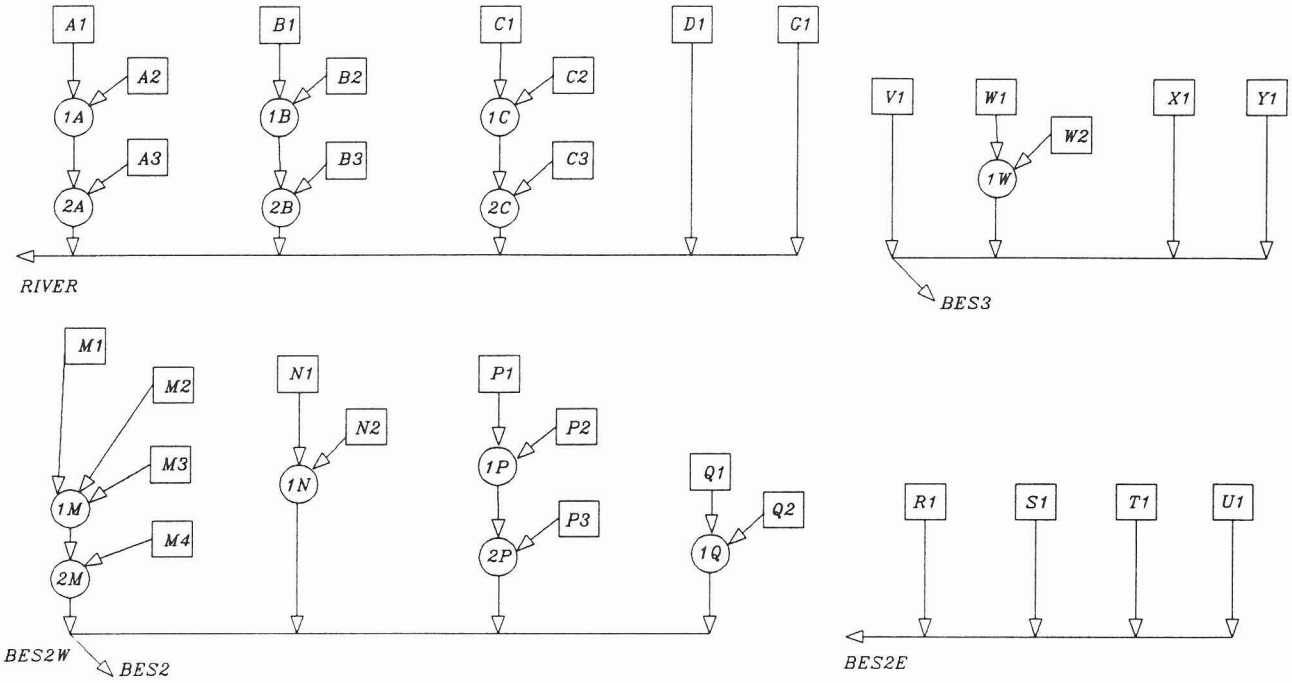
The network diagrams for the HEC-1 basins is on the following page. Peak flow runoff values have been tabulated on the network diagram for both the 6 and 24-hour storms to permit easy comparison and to facilitate understanding of the results. The HEC-1 Runoff Summaries are also included for quick reference. The final results for the 6-hour and 24-hour duration storms are in Sections 3.5.1 and 3.5.2, respectively. The 24 hour storm produced the highest runoff peak flows at all points. The input data and master summary only are included for the 6-hour storm, whereas the full output file for the 24-hour storm is included in the report for reference. Channel transmission losses are not included in either computation because they were found to be less than one percent and therefore insignificant. This is in agreement with studies for similar areas if the multiple use of infiltration factors is accounted for.

Discussion of Results

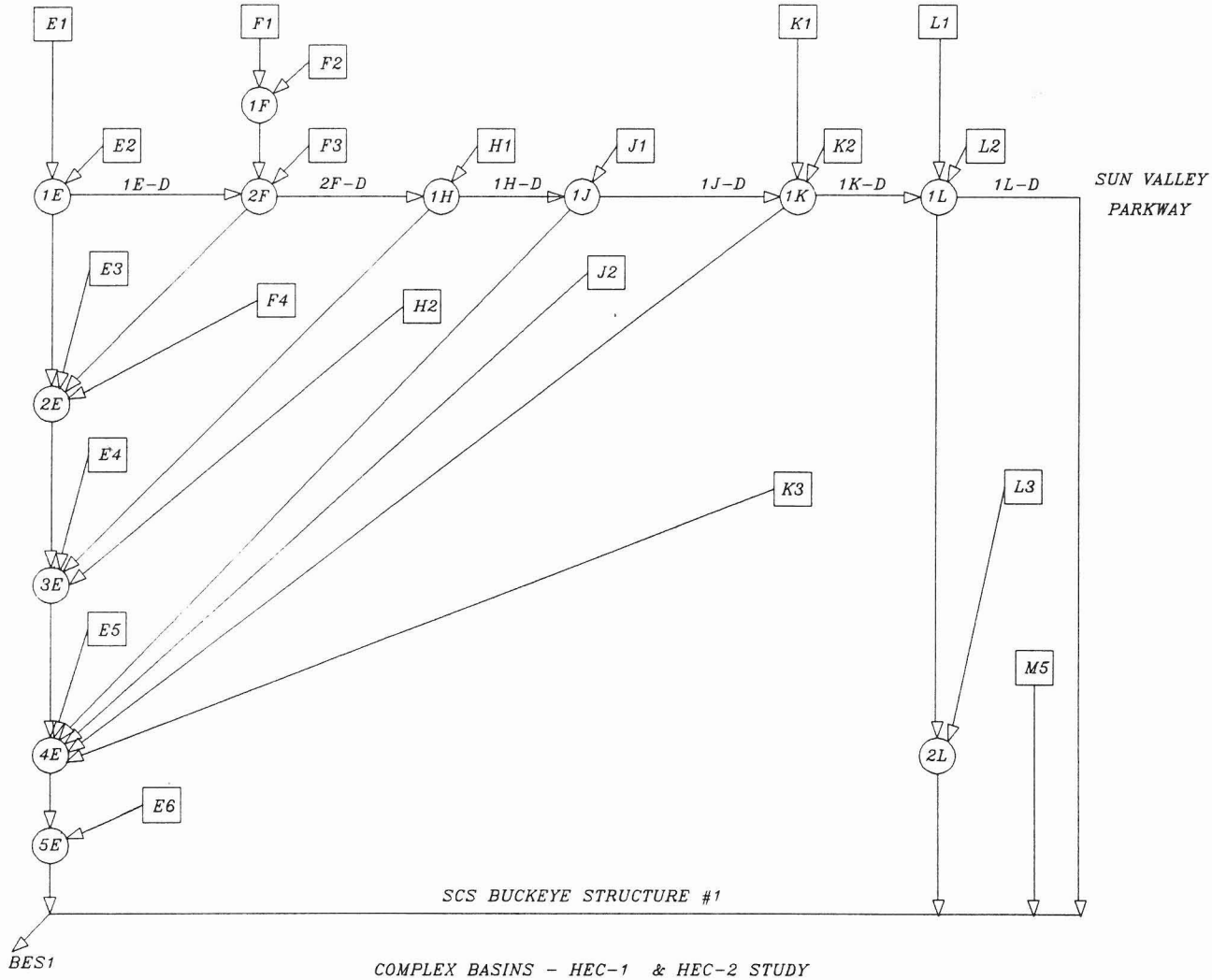
The peak discharges are in the range predicted by the 100-year peak discharge curves for Southern Arizona by Malvick and Eychaner, USGS data for Maricopa County, curves developed for the Arizona Department of Transportation and the C = 17 curve from Creager. They vary slightly from the discharges predicted by the drainage studies performed for the Sun Valley Parkway. However, the culvert sizes selected for that project control the maximum discharge downstream. Therefore, the study area flows predicted in this study are consistent with the drainage design. The major difference is the flow that is predicted for the roadside ditch on the east side of the Parkway from subbasin F to subbasin H.

HEC-1 NETWORK DIAGRAM

HEC-1 BASINS

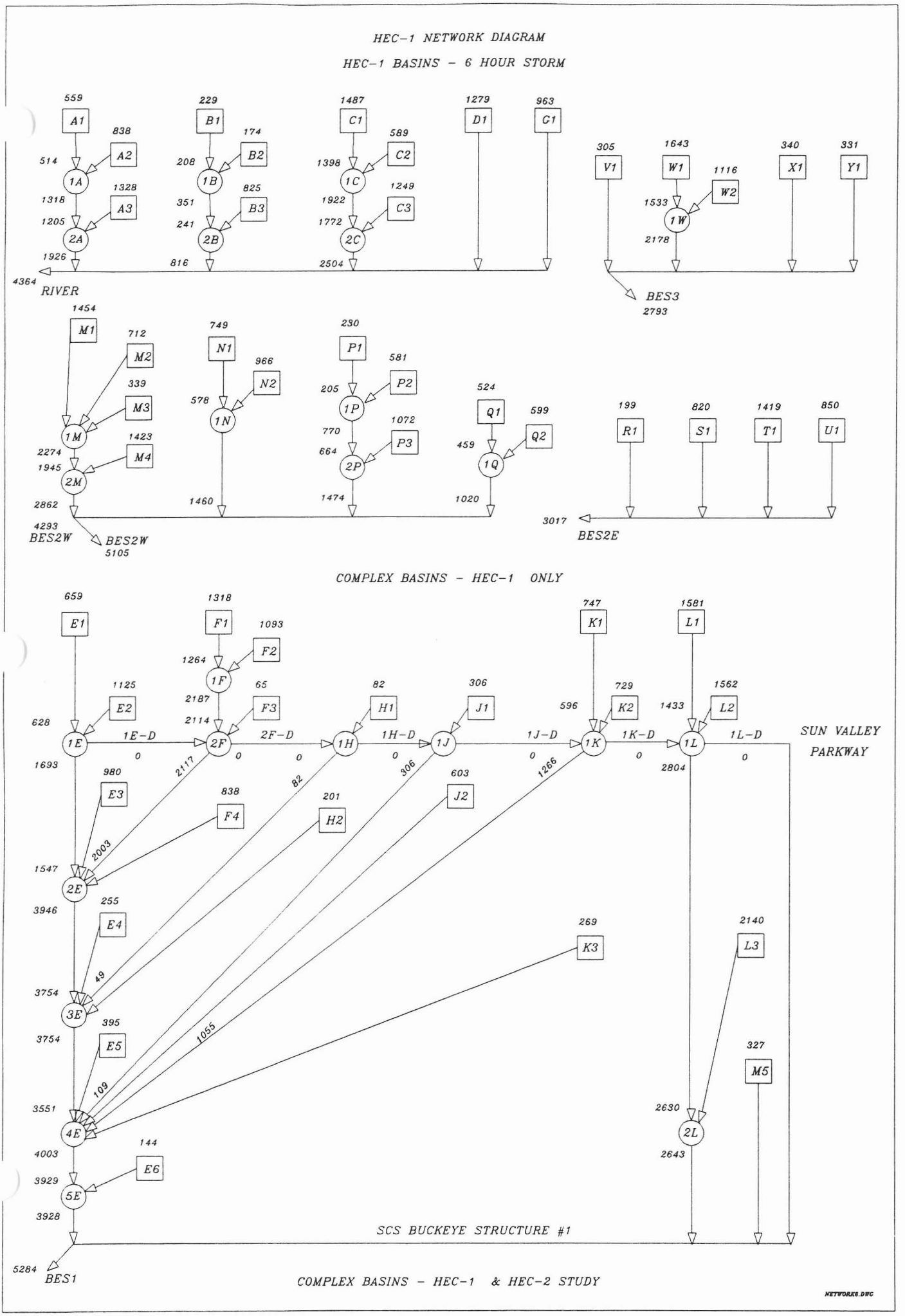


SEPARATE BASINS - HEC-1 ONLY



COMPLEX BASINS - HEC-1 & HEC-2 STUDY

NETWORK.DWG


HEC-1 NETWORK DIAGRAM
HEC-1 BASINS - 6 HOUR STORM
559
A1
838
A2
514
1A
1328
A3
1318
1205
2A
1926
4364
RIVER
229
B1
174
B2
208
1B
825
B3
351
241
2B
816
1487
C1
589
C2
1398
1C
1249
C3
1922
1772
2C
2504
1279
D1
963
C1
305
V1
1643
W1
1116
W2
1533
1W
2178
340
X1
331
Y1
BES3
2793
1454
M1
712
M2
339
M3
1423
M4
1M
2274
1945
2M
2862
4293
BES2W
BES2W
5105
749
N1
966
N2
578
1N
1460
230
P1
581
P2
205
1P
1072
P3
770
664
2P
1474
524
Q1
599
Q2
459
1Q
1020
199
R1
820
S1
1419
T1
850
U1
3017
BES2E
COMPLEX BASINS - HEC-1 ONLY
659
E1
1318
F1
1093
F2
1264
1F
1125
E2
65
F3
2187
2114
628
1E
1E-D
0
2F
2F-D
0
1693
82
H1
306
J1
747
K1
729
K2
596
1581
L1
1562
L2
1433
1H
1H-D
0
1J
1J-D
0
1K
1K-D
0
1L
1L-D
0
2804
SUN VALLEY
PARKWAY
980
E3
838
F4
2117
2003
1547
2E
255
E4
3946
82
201
H2
306
603
J2
1266
269
K3
2140
L3
49
3754
3E
395
E5
3754
1055
109
327
M5
3551
4E
2630
2L
2643
4003
144
E6
3929
5E
3928
SCS BUCKEYE STRUCTURE #1
5284
BES1
COMPLEX BASINS - HEC-1 & HEC-2 STUDY
NETWORK6.DWG

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	A1	559.	4.33	106.	27.	26.	1.11		
ROUTED TO	A1-1A	514.	4.75	106.	27.	26.	1.11		
HYDROGRAPH AT	A2	838.	4.75	171.	43.	41.	1.69		
2 COMBINED AT	1A	1318.	4.75	270.	68.	65.	2.80		
ROUTED TO	1A-2A	1205.	5.42	269.	68.	65.	2.80		
HYDROGRAPH AT	A3	1328.	4.83	271.	68.	65.	3.64		
2 COMBINED AT	2A	1926.	5.25	519.	130.	125.	6.44		
HYDROGRAPH AT	B1	229.	4.42	45.	11.	11.	.55		
ROUTED TO	B1-1B	208.	4.92	44.	11.	11.	.55		
HYDROGRAPH AT	B2	174.	4.58	29.	7.	7.	.49		
2 COMBINED AT	1B	351.	4.75	72.	18.	18.	1.04		
ROUTED TO	1B-2B	241.	6.25	72.	18.	18.	1.04		
HYDROGRAPH AT	B3	825.	4.75	159.	40.	38.	1.97		
2 COMBINED AT	2B	816.	4.75	223.	56.	54.	3.01		
HYDROGRAPH AT	C1	1487.	4.50	395.	101.	97.	3.58		
ROUTED TO	C1-1C	1398.	5.00	392.	101.	97.	3.58		
HYDROGRAPH AT	C2	589.	4.92	129.	32.	31.	1.84		
2 COMBINED AT	1C	1922.	5.00	507.	130.	125.	5.42		
ROUTED TO	1C-2C	1772.	5.67	504.	130.	125.	5.42		
HYDROGRAPH AT	C3	1249.	5.08	312.	78.	75.	3.74		
2 COMBINED AT	2C	2504.	5.58	776.	199.	192.	9.16		
HYDROGRAPH AT	D1	1279.	4.42	222.	55.	53.	2.01		
HYDROGRAPH AT	G1	963.	4.50	171.	43.	41.	1.62		
5 COMBINED AT	RIVER	4364.	4.75	1657.	420.	405.	22.24		
HYDROGRAPH AT	E1	659.	4.42	134.	34.	32.	1.11		
ROUTED TO	E1-1E	628.	4.75	134.	34.	32.	1.11		

HYDROGRAPH AT	E2	1125.	4.58	219.	55.	53.	1.86
2 COMBINED AT	1E	1693.	4.67	344.	86.	83.	2.97
DIVERSION TO	1E-D	0.	.08	0.	0.	0.	2.97
HYDROGRAPH AT	DIV-1E	1693.	4.67	344.	86.	83.	2.97
ROUTED TO	1E-2E	1547.	5.33	342.	86.	83.	2.97
HYDROGRAPH AT	F1	1318.	4.50	320.	81.	78.	2.84
ROUTED TO	F1-1F	1264.	4.83	319.	81.	78.	2.84
HYDROGRAPH AT	F2	1093.	4.58	249.	63.	60.	2.88
2 COMBINED AT	1F	2187.	4.75	550.	140.	135.	5.72
ROUTED TO	1F-2F	2114.	5.00	550.	140.	135.	5.72
HYDROGRAPH AT	F3	65.	4.50	8.	2.	2.	.37
HYDROGRAPH AT	RTV-2F	0.	.08	0.	0.	0.	2.97
3 COMBINED AT	2F	2117.	5.00	553.	141.	135.	6.09
DIVERSION TO	2F-D	0.	.08	0.	0.	0.	6.09
HYDROGRAPH AT	DIV-2F	2117.	5.00	553.	141.	135.	6.09
ROUTED TO	2F-2E	2003.	5.58	552.	141.	135.	6.09
HYDROGRAPH AT	E3	980.	5.00	234.	59.	56.	2.52
HYDROGRAPH AT	F4	838.	4.58	140.	35.	34.	2.25
4 COMBINED AT	2E	3946.	5.33	1149.	291.	280.	13.83
ROUTED TO	2E-3E	3754.	5.92	1145.	291.	280.	13.83
HYDROGRAPH AT	H1	82.	4.75	13.	3.	3.	1.06
HYDROGRAPH AT	RTV-1H	0.	.08	0.	0.	0.	6.09
2 COMBINED AT	1H	82.	4.75	13.	3.	3.	1.06
DIVERSION TO	1H-D	0.	.08	0.	0.	0.	1.06
HYDROGRAPH AT	DIV-1H	82.	4.75	13.	3.	3.	1.06
ROUTED TO	1H-3E	49.	7.00	13.	3.	3.	1.06
HYDROGRAPH AT	E4	255.	4.92	55.	14.	13.	.79
HYDROGRAPH AT	H2	201.	5.08	46.	11.	11.	1.42
4 COMBINED AT	3E	3754.	5.92	1191.	304.	293.	17.10
ROUTED TO	3E-4E	3551.	6.58	1179.	303.	292.	17.10

HYDROGRAPH AT	J1	306.	4.92	64.	16.	15.	1.77
HYDROGRAPH AT	RTV-1J	0.	.08	0.	0.	0.	1.06
2 COMBINED AT	1J	306.	4.92	64.	16.	15.	1.77
DIVERSION TO	1J-D	0.	.08	0.	0.	0.	1.77
HYDROGRAPH AT	DIV-1J	306.	4.92	64.	16.	15.	1.77
ROUTED TO	1J-4E	109.	9.92	48.	16.	15.	1.77
HYDROGRAPH AT	J2	603.	5.50	182.	45.	44.	3.66
HYDROGRAPH AT	K1	747.	4.50	182.	46.	45.	1.54
ROUTED TO	K1-1K	596.	5.67	181.	46.	45.	1.54
HYDROGRAPH AT	K2	729.	5.58	245.	62.	59.	2.42
HYDROGRAPH AT	RTV-1K	0.	.08	0.	0.	0.	1.77
3 COMBINED AT	1K	1266.	5.67	415.	105.	101.	3.96
DIVERSION TO	1K-D	0.	.08	0.	0.	0.	3.96
HYDROGRAPH AT	DIV-1K	1266.	5.67	415.	105.	101.	3.96
ROUTED TO	1K-4E	1055.	7.08	412.	105.	101.	3.96
HYDROGRAPH AT	K3	269.	5.25	69.	17.	17.	1.65
HYDROGRAPH AT	E5	395.	5.00	90.	22.	22.	1.36
6 COMBINED AT	4E	4003.	6.67	1622.	436.	420.	29.50
ROUTED TO	4E-5E	3929.	7.00	1619.	436.	420.	29.50
HYDROGRAPH AT	E6	144.	4.25	20.	5.	5.	.21
2 COMBINED AT	5E	3928.	7.00	1620.	439.	423.	29.71
HYDROGRAPH AT	L1	1581.	4.50	408.	104.	100.	3.48
ROUTED TO	L1-1L	1433.	5.42	405.	104.	100.	3.48
HYDROGRAPH AT	L2	1562.	5.67	513.	128.	124.	7.32
HYDROGRAPH AT	RTV-1L	0.	.08	0.	0.	0.	3.96
3 COMBINED AT	1L	2804.	5.50	876.	222.	214.	10.80
DIVERSION TO	1L-D	0.	.08	0.	0.	0.	10.80
HYDROGRAPH AT	DIV-1L	2804.	5.50	876.	222.	214.	10.80
ROUTED TO	1L-2L	2630.	6.33	873.	222.	214.	10.80
HYDROGRAPH AT	L3	2140.	4.92	484.	121.	116.	6.85

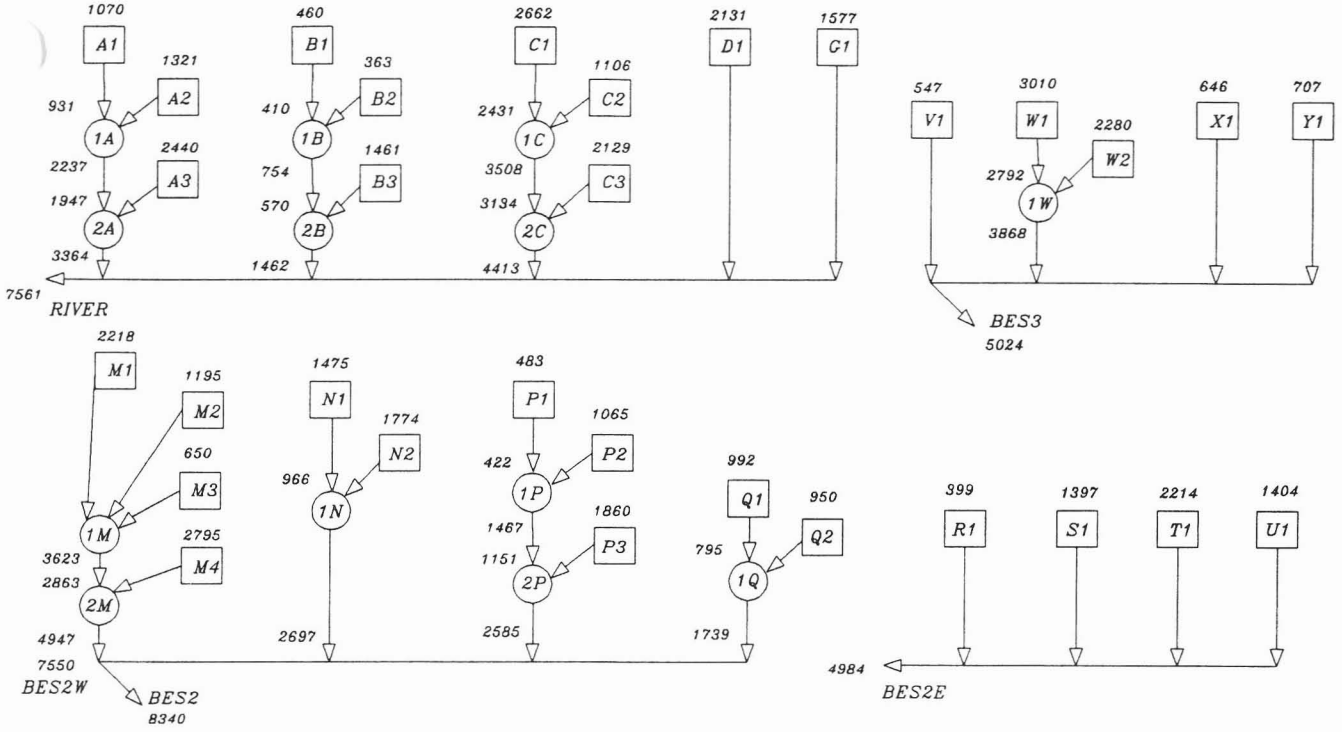
2 COMBINED AT	2L	2643.	6.33	1229.	318.	306.	17.65
HYDROGRAPH AT	M5	327.	4.58	55.	14.	13.	.76
HYDROGRAPH AT	RTVBES	0.	.08	0.	0.	0.	10.80
4 COMBINED AT	BES1	5284.	6.92	2522.	677.	652.	48.12
HYDROGRAPH AT	M1	1454.	4.67	430.	111.	107.	3.32
HYDROGRAPH AT	M2	712.	4.58	200.	52.	50.	1.68
HYDROGRAPH AT	M3	339.	4.25	59.	15.	14.	.54
3 COMBINED AT	1M	2274.	4.58	667.	172.	166.	5.54
ROUTED TO	1M-2M	1945.	6.33	665.	172.	166.	5.54
HYDROGRAPH AT	M4	1423.	5.83	509.	129.	124.	8.18
2 COMBINED AT	2M	2862.	6.25	1101.	282.	272.	13.72
HYDROGRAPH AT	N1	749.	4.33	137.	34.	33.	1.46
ROUTED TO	N1-1N	578.	5.75	136.	34.	33.	1.46
HYDROGRAPH AT	N2	966.	5.50	302.	76.	73.	4.13
2 COMBINED AT	1N	1460.	5.58	424.	107.	103.	5.59
HYDROGRAPH AT	P1	230.	4.08	33.	8.	8.	.37
ROUTED TO	P1-1P	205.	4.42	33.	8.	8.	.37
HYDROGRAPH AT	P2	581.	4.50	132.	33.	32.	1.43
2 COMBINED AT	1P	770.	4.50	163.	41.	40.	1.80
ROUTED TO	1P-2P	664.	5.42	162.	41.	40.	1.80
HYDROGRAPH AT	P3	1072.	4.83	256.	64.	62.	2.76
2 COMBINED AT	2P	1474.	5.08	403.	103.	99.	4.56
HYDROGRAPH AT	Q1	524.	4.33	108.	27.	26.	1.09
ROUTED TO	Q1-1Q	459.	4.92	107.	27.	26.	1.09
HYDROGRAPH AT	Q2	599.	4.83	146.	37.	36.	1.29
2 COMBINED AT	1Q	1020.	4.83	245.	63.	60.	2.38
4 COMBINED AT	BES2W	4293.	5.58	1892.	487.	469.	26.25
HYDROGRAPH AT	R1	199.	4.08	30.	8.	7.	.30
HYDROGRAPH AT	S1	820.	4.42	168.	42.	41.	1.46
HYDROGRAPH AT	T1	1419.	4.58	364.	93.	89.	2.96

HYDROGRAPH AT	U1	850.	4.33	181.	45.	44.	1.39
4 COMBINED AT	BES2E	3017.	4.42	708.	179.	173.	6.11
2 COMBINED AT	BES2	5105.	4.83	2407.	622.	599.	32.36
HYDROGRAPH AT	V1	305.	4.50	72.	18.	18.	.70
HYDROGRAPH AT	W1	1643.	4.50	405.	103.	100.	3.95
ROUTED TO	W1-1W	1533.	4.92	405.	103.	100.	3.95
HYDROGRAPH AT	W2	1116.	4.42	201.	50.	49.	2.69
2 COMBINED AT	1W	2178.	4.67	584.	149.	143.	6.64
HYDROGRAPH AT	X1	340.	4.42	74.	19.	18.	.77
HYDROGRAPH AT	Y1	331.	4.17	55.	14.	13.	.57
4 COMBINED AT	BES3	2793.	4.42	751.	192.	185.	8.68

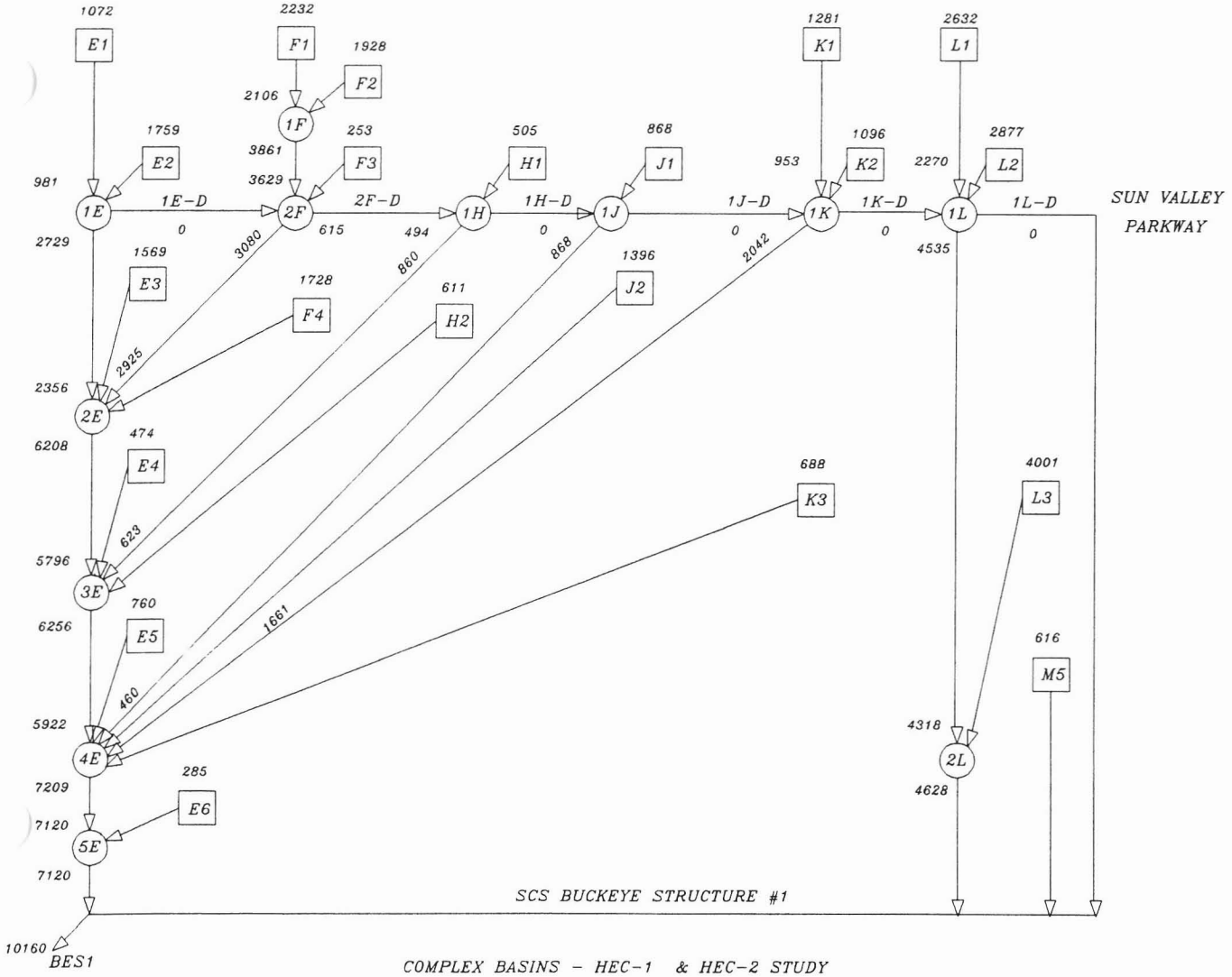
*** NORMAL END OF HEC-1 ***
NORMAL END OF HEC-1

HEC-1 NETWORK DIAGRAM

HEC-1 BASINS - 24 HOUR STORM



COMPLEX BASINS - HEC-1 ONLY



COMPLEX BASINS - HEC-1 & HEC-2 STUDY

NETWORK.DWG

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	A1	1070.	12.17	154.	42.	40.	1.11		
ROUTED TO	A1-1A	931.	12.50	154.	42.	40.	1.11		
HYDROGRAPH AT	A2	1321.	12.67	229.	57.	55.	1.69		
2 COMBINED AT	1A	2237.	12.58	381.	98.	95.	2.80		
ROUTED TO	1A-2A	1947.	13.17	381.	98.	95.	2.80		
HYDROGRAPH AT	A3	2440.	12.75	450.	112.	108.	3.64		
2 COMBINED AT	2A	3364.	13.00	813.	206.	199.	6.44		
HYDROGRAPH AT	B1	460.	12.25	71.	19.	18.	.55		
ROUTED TO	B1-1B	410.	12.67	71.	19.	18.	.55		
HYDROGRAPH AT	B2	363.	12.50	55.	14.	13.	.49		
2 COMBINED AT	1B	754.	12.58	125.	33.	31.	1.04		
ROUTED TO	1B-2B	570.	13.58	125.	32.	31.	1.04		
HYDROGRAPH AT	B3	1461.	12.58	248.	62.	60.	1.97		
2 COMBINED AT	2B	1462.	12.58	372.	94.	91.	3.01		
HYDROGRAPH AT	C1	2662.	12.33	547.	159.	153.	3.58		
ROUTED TO	C1-1C	2431.	12.83	546.	158.	152.	3.58		
HYDROGRAPH AT	C2	1106.	12.83	222.	55.	53.	1.84		
2 COMBINED AT	1C	3508.	12.83	762.	212.	204.	5.42		
ROUTED TO	1C-2C	3134.	13.33	758.	209.	202.	5.42		
HYDROGRAPH AT	C3	2129.	13.00	478.	120.	115.	3.74		
2 COMBINED AT	2C	4413.	13.33	1182.	317.	305.	9.16		
HYDROGRAPH AT	D1	2131.	12.33	284.	71.	68.	2.01		
HYDROGRAPH AT	G1	1577.	12.42	223.	56.	54.	1.62		
5 COMBINED AT	RIVER	7561.	12.50	2636.	684.	659.	22.24		
HYDROGRAPH AT	E1	1072.	12.25	163.	41.	40.	1.11		
ROUTED TO	E1-1E	981.	12.58	163.	41.	40.	1.11		

HYDROGRAPH AT	E2	1759.	12.50	271.	68.	65.	1.86
2 COMBINED AT	1E	2729.	12.50	433.	109.	105.	2.97
DIVERSION TO	1E-D	0.	.08	0.	0.	0.	2.97
HYDROGRAPH AT	DIV-1E	2729.	12.50	433.	109.	105.	2.97
ROUTED TO	1E-2E	2356.	13.08	431.	109.	105.	2.97
HYDROGRAPH AT	F1	2232.	12.33	428.	119.	115.	2.84
ROUTED TO	F1-1F	2106.	12.67	427.	119.	114.	2.84
HYDROGRAPH AT	F2	1928.	12.42	376.	96.	92.	2.88
2 COMBINED AT	1F	3861.	12.58	794.	212.	204.	5.72
ROUTED TO	1F-2F	3629.	12.83	794.	212.	204.	5.72
HYDROGRAPH AT	F3	253.	12.33	33.	8.	8.	.37
HYDROGRAPH AT	RTV-2F	0.	.08	0.	0.	0.	2.97
3 COMBINED AT	2F	3694.	12.75	823.	219.	211.	6.09
DIVERSION TO	2F-D	615.	12.75	40.	10.	10.	6.09
HYDROGRAPH AT	DIV-2F	3080.	12.75	783.	209.	201.	6.09
ROUTED TO	2F-2E	2925.	13.42	782.	207.	200.	6.09
HYDROGRAPH AT	E3	1569.	12.92	331.	83.	80.	2.52
HYDROGRAPH AT	F4	1728.	12.50	262.	66.	63.	2.25
4 COMBINED AT	2E	6208.	13.08	1693.	437.	421.	13.83
ROUTED TO	2E-3E	5796.	13.67	1687.	435.	419.	13.83
HYDROGRAPH AT	H1	505.	12.67	85.	21.	21.	1.06
HYDROGRAPH AT	RTV-1H	615.	12.75	40.	10.	10.	6.09
ROUTED TO	D2F-2H	494.	13.00	40.	10.	10.	6.09
2 COMBINED AT	1H	860.	13.00	130.	33.	31.	1.06
DIVERSION TO	1H-D	0.	.08	0.	0.	0.	1.06
HYDROGRAPH AT	DIV-1H	860.	13.00	130.	33.	31.	1.06
ROUTED TO	1H-3E	623.	14.00	129.	33.	31.	1.06
HYDROGRAPH AT	E4	474.	12.83	94.	24.	23.	.79
HYDROGRAPH AT	H2	611.	13.00	137.	34.	33.	1.42
4 COMBINED AT	3E	6256.	13.67	1955.	505.	486.	17.10

ROUTED TO	3E-4E	5922.	14.25	1946.	503.	484.	17.10
HYDROGRAPH AT	J1	868.	12.83	176.	44.	42.	1.77
HYDROGRAPH AT	RTV-1J	0.	.08	0.	0.	0.	1.06
2 COMBINED AT	1J	868.	12.83	176.	44.	42.	1.77
DIVERSION TO	1J-D	0.	.08	0.	0.	0.	1.77
HYDROGRAPH AT	DIV-1J	868.	12.83	176.	44.	42.	1.77
ROUTED TO	1J-4E	460.	15.67	151.	41.	40.	1.77
HYDROGRAPH AT	J2	1396.	13.42	402.	101.	97.	3.66
HYDROGRAPH AT	K1	1281.	12.33	239.	68.	66.	1.54
ROUTED TO	K1-1K	953.	13.42	238.	68.	65.	1.54
HYDROGRAPH AT	K2	1096.	13.42	331.	83.	80.	2.42
HYDROGRAPH AT	RTV-1K	0.	.08	0.	0.	0.	1.77
3 COMBINED AT	1K	2042.	13.42	567.	151.	145.	3.96
DIVERSION TO	1K-D	0.	.08	0.	0.	0.	3.96
HYDROGRAPH AT	DIV-1K	2042.	13.42	567.	151.	145.	3.96
ROUTED TO	1K-4E	1661.	14.75	563.	149.	143.	3.96
HYDROGRAPH AT	K3	688.	13.17	171.	43.	41.	1.65
HYDROGRAPH AT	E5	760.	12.92	160.	40.	39.	1.36
6 COMBINED AT	4E	7209.	14.33	3030.	804.	775.	29.50
ROUTED TO	4E-5E	7120.	14.58	3020.	802.	773.	29.50
HYDROGRAPH AT	E6	285.	12.08	28.	7.	7.	.21
2 COMBINED AT	5E	7120.	14.58	3022.	808.	779.	29.71
HYDROGRAPH AT	L1	2632.	12.33	538.	151.	146.	3.48
ROUTED TO	L1-1L	2270.	13.08	537.	150.	144.	3.48
HYDROGRAPH AT	L2	2877.	13.50	876.	219.	211.	7.32
HYDROGRAPH AT	RTV-1L	0.	.08	0.	0.	0.	3.96
3 COMBINED AT	1L	4535.	13.33	1361.	355.	342.	10.80
DIVERSION TO	1L-D	0.	.08	0.	0.	0.	10.80
HYDROGRAPH AT	DIV-1L	4535.	13.33	1361.	355.	342.	10.80
ROUTED TO	1L-2L	4318.	14.08	1355.	353.	340.	10.80

HYDROGRAPH AT	L3	4001.	12.83	825.	206.	199.	6.85
2 COMBINED AT	2L	4628.	14.00	2049.	534.	514.	17.65
HYDROGRAPH AT	M5	616.	12.50	92.	23.	22.	.76
HYDROGRAPH AT	RTVBES	0.	.08	0.	0.	0.	10.80
4 COMBINED AT	BES1	10160.	14.42	4846.	1290.	1243.	48.12
HYDROGRAPH AT	M1	2218.	12.50	538.	153.	147.	3.32
HYDROGRAPH AT	M2	1195.	12.42	266.	77.	75.	1.68
HYDROGRAPH AT	M3	650.	12.08	78.	21.	20.	.54
3 COMBINED AT	1M	3623.	12.42	872.	249.	240.	5.54
ROUTED TO	1M-2M	2863.	14.08	871.	245.	236.	5.54
HYDROGRAPH AT	M4	2795.	13.67	942.	239.	230.	8.18
2 COMBINED AT	2M	4947.	13.92	1727.	461.	444.	13.72
HYDROGRAPH AT	N1	1475.	12.17	200.	54.	52.	1.46
ROUTED TO	N1-1N	966.	13.50	200.	53.	51.	1.46
HYDROGRAPH AT	N2	1774.	13.42	512.	129.	125.	4.13
2 COMBINED AT	1N	2697.	13.42	704.	181.	174.	5.59
HYDROGRAPH AT	P1	483.	12.00	49.	13.	13.	.37
ROUTED TO	P1-1P	422.	12.25	49.	13.	13.	.37
HYDROGRAPH AT	P2	1065.	12.33	195.	53.	51.	1.43
2 COMBINED AT	1P	1467.	12.33	244.	66.	64.	1.80
ROUTED TO	1P-2P	1151.	13.17	244.	66.	63.	1.80
HYDROGRAPH AT	P3	1860.	12.75	378.	101.	97.	2.76
2 COMBINED AT	2P	2585.	12.92	619.	166.	160.	4.56
HYDROGRAPH AT	Q1	992.	12.25	154.	43.	41.	1.09
ROUTED TO	Q1-1Q	795.	12.75	154.	43.	41.	1.09
HYDROGRAPH AT	Q2	950.	12.75	191.	52.	51.	1.29
2 COMBINED AT	1Q	1739.	12.75	344.	95.	91.	2.38
4 COMBINED AT	BES2W	7550.	13.50	3130.	835.	804.	26.25
HYDROGRAPH AT	R1	399.	12.08	41.	11.	11.	.30
HYDROGRAPH AT	S1	1397.	12.25	214.	57.	55.	1.46

HYDROGRAPH AT	T1	2214.	12.42	458.	124.	120.	2.96
HYDROGRAPH AT	U1	1404.	12.25	217.	58.	56.	1.39
4 COMBINED AT	BES2E	4984.	12.25	912.	245.	236.	6.11
2 COMBINED AT	BES2	8340.	12.67	3889.	1041.	1003.	32.36
HYDROGRAPH AT	V1	547.	12.33	100.	28.	27.	.70
HYDROGRAPH AT	W1	3010.	12.33	580.	164.	158.	3.95
ROUTED TO	W1-1W	2792.	12.67	580.	164.	158.	3.95
HYDROGRAPH AT	W2	2280.	12.25	336.	87.	83.	2.69
2 COMBINED AT	1W	3868.	12.58	896.	245.	236.	6.64
HYDROGRAPH AT	X1	646.	12.25	107.	30.	29.	.77
HYDROGRAPH AT	Y1	707.	12.08	79.	22.	21.	.57
4 COMBINED AT	BES3	5024.	12.42	1152.	317.	305.	8.68

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

HEC1 S/N: HMVersion: 6.20 Data File: wt6.hc1

```
**************************************
*                                    *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)  *
*          SEPTEMBER 1990            *
*           VERSION 4.0              *
*                                    *
*  RUN DATE  12/29/1993  TIME  15:57:48 *
*                                    *
**************************************
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**************************************
*                                    *
*    U.S. ARMY CORPS OF ENGINEERS    *
*    HYDROLOGIC ENGINEERING CENTER   *
*         609 SECOND STREET          *
*       DAVIS, CALIFORNIA 95616      *
*           (916) 756-1104           *
*                                    *
**************************************
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X     X  XXXXXXX   XXXXX           X
X     X  X        X     X         XX
X     X  X        X               X
XXXXXXX  XXXX     X        XXXXX  X
X     X  X        X               X
X     X  X        X     X         X
X     X  XXXXXXX   XXXXX          XXX
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::::::::::::::::::::::::::::::::::::::::::::
::::::::::::::::::::::::::::::::::::::::::::
:::                                      :::
:::  Full Microcomputer Implementation   :::
:::                 by                   :::
:::        Haestad Methods, Inc.         :::
:::                                      :::
::::::::::::::::::::::::::::::::::::::::::::
::::::::::::::::::::::::::::::::::::::::::::
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37 Brookside Road * Waterbury, Connecticut 06708 * (203) 755-1666

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

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

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

    1     ID   White Tanks Wash Flood Insurance Study - 7-Dec-93 - JRB
    2     ID   ALPHA Engineering Group Inc. - 5 minute interval - 6 Hour Storm
          *DIAGRAM
    3     ID
    4     IT       5                   300
    5     IO       4       0
    6     IN      15
          *
    7     JD    3.24     0.1
    8     PC    .000    .021    .036    .052    .072    .088    .107    .127    .145    .163
    9     PC    .183    .206    .237    .286    .369    .502    .654    .768    .838    .885
   10     PC    .925    .943    .963    .981   1.000
          *
   11     JD    3.20       1
   12     JD    3.11       5
   13     JD    3.05      10
   14     JD    2.95      20
   15     JD    2.88      30
   16     JD    2.82      40
   17     JD    2.79      50
   18     JD    2.56     112
          *
          *

   19     KK      A1
   20     KM   BASIN A1
   21     KM     THE PC RECORD USED A 6-HOUR 3.24 INCH RAINFALL, PATTERN NO. 4.12
   22     KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
   23     KM    L=      2.0  Lca=       .9   S=  414.0  Kn= .050  LAG=  29.0
   24     KM    PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN
   25     KO                                      21
   26     BA    1.11
   27     LG     .27     .35    4.19     .39    9.00
   28     UI    129.    316.    682.    941.   1322.   1098.    770.    651.    543.    438.
   29     UI    332.    290.    230.    170.    145.    115.     99.     67.     63.     57.
   30     UI     25.     25.     25.     25.     25.     25.      0.      0.      0.      0.
   31     UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *

   32     KK   A1-1A  Routing thru A2
   33     KO                                      21
   34     RS       7    FLOW      -1
   35     RC    .045    .045    .045   14160 .024011
   36     RX       0      75     125     185     190     220     280     340
   37     RY      27      23      19      10      10      20      26      32
          *

   38     KK      A2
   39     KM   BASIN A2
   40     KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
   41     KM    L=      2.7  Lca=      1.2   S=  127.0  Kn= .060  LAG=  53.0
   42     KM    PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
   43     KO                                      21
   44     BA    1.69
   45     LG     .19     .35    3.77     .30     .00
```

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

  46      UI    108.    108.    246.    417.    523.    603.    685.    799.    960.   1282.
  47      UI   1311.   1060.    912.    799.    682.    582.    500.    366.    238.    187.
  48      UI    177.    126.    108.     85.     33.     33.     33.     33.     33.     33.
  49      UI     33.      0.      0.      0.      0.      0.      0.      0.      0.      0.
  50      UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *

  51      KK     1A
  52      KM     Combining A1 & A2
  53      KO                                     21
  54      HC      2
          *

  55      KK   1A-2A  Routing thru A3
  56      KO                                     21
  57      RS     12    FLOW       0
  58      RC   .050    .043    .050   17480 .013158
  59      RX      0      20      30     165     186     346     361     381
  60      RY     20      19      18      10      10      20      21      22
          *

  61      KK     A3
  62      KM   BASIN A3
  63      KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
  64      KM    L=      3.3  Lca=      1.9   S=   69.0  Kn= .045  LAG=  58.0
  65      KM    PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
  66      KO                                     21
  67      BA    3.64
  68      LG     .17     .35    4.08     .38     .00
  69      UI    211.    211.    371.    754.    958.   1111.   1247.   1417.   1623.   1981.
  70      UI   2583.   2566.   2106.   1829.   1628.   1405.   1227.   1056.    892.    649.
  71      UI    406.    364.    347.    248.    211.    202.     65.     65.     65.     65.
  72      UI     65.     65.     65.     65.      0.      0.      0.      0.      0.      0.
  73      UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *

  74      KK     2A
  75      KM     Combining A1+A2 & A3
  76      KO                                     21
  77      HC      2
          *

  78      KK     B1
  79      KM   BASIN B1
  80      KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
  81      KM    L=      2.0  Lca=      1.1   S=  289.0  Kn= .050  LAG=  33.0
  82      KM    PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN
  83      KO                                     21
  84      BA     .55
  85      LG     .23     .35    4.18     .45    7.00
  86      UI     56.    106.    249.    366.    453.    624.    404.    326.    281.    240.
  87      UI    201.    157.    133.    119.     90.     71.     62.     52.     43.     34.
  88      UI     27.     27.     20.     11.     11.     11.     11.     11.     11.     11.
  89      UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
  90      UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *
```

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

  91      KK   B1-1B  Routing thru B2
  92      KO                                    21
  93      RS      9    FLOW       0
  94      RC   .055    .042    .055   10400 .017308
  95      RX      0      75     140     167     193     226     296     371
  96      RY     20      17      14      10      10      13      17      22
          *

  97      KK     B2
  98      KM   BASIN B2
  99      KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
 100      KM    L=      2.0  Lca=       .9   S=   91.0  Kn= .060  LAG=  45.0
 101      KM    PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
 102      KO                                    21
 103      BA    .49
 104      LG    .18     .35    4.11     .48     .00
 105      UI   36.     36.    119.    164.    198.    231.    275.    363.    455.    379.
 106      UI  313.    267.    222.    184.    146.     89.     63.     60.     38.     36.
 107      UI   14.     11.     11.     11.     11.     11.      0.      0.      0.      0.
 108      UI    0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *

 109      KK     1B
 110      KM     Combining B1 & B2
 111      KO                                    21
 112      HC      2
          *

 113      KK   1B-2B  Routing thru B3
 114      KO                                    21
 115      RS     21    FLOW       0
 116      RC   .050    .055    .048   17140 .013419
 117      RX      0      40     100     130     220     340     390     440
 118      RY     27      25      22      10      10      17      21      25
          *

 119      KK     B3
 120      KM   BASIN B3
 121      KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
 122      KM    L=      3.3  Lca=      1.4   S=   71.0  Kn= .045  LAG=  52.0
 123      KM    PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
 124      KO                                    21
 125      BA    1.97
 126      LG     .17     .35    3.98     .37     .00
 127      UI   128.    128.    305.    506.    630.    724.    830.    966.   1191.   1593.
 128      UI  1480.   1212.   1052.    910.    776.    659.    551.    395.    234.    216.
 129      UI   199.    128.    128.     62.     39.     39.     39.     39.     39.     39.
 130      UI    39.      0.      0.      0.      0.      0.      0.      0.      0.      0.
 131      UI     0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *
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LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

  132     KK      2B
  133     KM      Combining B1+B2 & B3
  134     KO                                      21
  135     HC       2
          *

  136     KK      C1
  137     KM    BASIN C1
  138     KM     THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
  139     KM     L=      3.5  Lca=      1.9   S=  619.0  Kn= .050  LAG=  44.0
  140     KM     PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN
  141     KO                                      21
  142     BA     3.58
  143     LG      .33     .35    4.28     .41   19.00
  144     UI     274.    274.    845.   1300.   1740.   2055.   2488.   3182.   2054.   1694.
  145     UI    1523.   1358.   1207.   1070.    900.    750.    662.    611.    530.    438.
  146     UI     350.    323.    300.    238.    210.    207.    134.    134.    134.    134.
  147     UI      60.     52.     52.     52.     52.     52.     52.     52.     52.     52.
  148     UI       0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
  149     UI       0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *

  150     KK    C1-1C  Routing thru C2
  151     KO                                      21
  152     RS       9    FLOW       0
  153     RC    .050    .044    .050   17760 .019989
  154     RX       0      35      90     138     159     209     264     309
  155     RY      21      19      16      10      10      15      20      24
          *

  156     KK      C2
  157     KM    BASIN C2
  158     KM     THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
  159     KM     L=      3.4  Lca=      1.4   S=  106.0  Kn= .060  LAG=  65.0
  160     KM     PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
  161     KO                                      21
  162     BA     1.84
  163     LG      .18     .35    4.30     .40     .00
  164     UI      95.     95.     98.    319.    389.    460.    523.    576.    650.    732.
  165     UI     865.   1095.   1235.   1029.    890.    794.    716.    622.    556.    482.
  166     UI     423.    323.    229.    169.    160.    157.    100.     95.     95.     34.
  167     UI      29.     29.     29.     29.     29.     29.     29.     29.      0.      0.
  168     UI       0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *

  169     KK      1C
  170     KM      Combining C1 & C2
  171     KO                                      21
  172     HC       2
          *
```

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

  173     KK   1C-2C  Routing thru C3
  174     KO                                  21
  175     RS     11    FLOW       0
  176     RC   .046    .050    .046   21270 .011848
  177     RX      0      60     125     140     172     232     292     352
  178     RY     26      25      23      10      10      16      20      23
          *

  179     KK      C3
  180     KM   BASIN C3
  181     KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
  182     KM    L=      4.0  Lca=      2.2   S=   63.0  Kn= .050  LAG=  75.0
  183     KM    PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
  184     KO                                  21
  185     BA    3.74
  186     LG     .17     .35    3.92     .35     .00
  187     UI    168.    168.    168.    379.    598.    722.    826.    921.   1002.   1104.
  188     UI   1237.   1362.   1642.   2029.   2172.   1833.   1609.   1447.   1330.   1190.
  189     UI   1062.    963.    850.    775.    619.    483.    305.    297.    276.    276.
  190     UI    178.    168.    168.    115.     52.     52.     52.     52.     52.     52.
  191     UI     52.     52.     52.     52.      0.      0.      0.      0.      0.      0.
  192     UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *

  193     KK      2C
  194     KM      Combining C1+C2  &  C3
  195     KO                                  21
  196     HC       2
          *

  197     KK      D1
  198     KM   BASIN D1
  199     KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
  200     KM    L=      1.9  Lca=       .9   S=   65.0  Kn= .045  LAG=  36.0
  201     KM    PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
  202     KO                                  21
  203     BA    2.01
  204     LG     .17     .35    3.50     .28     .00
  205     UI    188.    335.    765.   1005.   1223.   1546.   2251.   2031.   1593.   1289.
  206     UI   1026.    784.    436.    319.    241.    188.     71.     58.     58.     58.
  207     UI     58.      0.      0.      0.      0.      0.      0.      0.      0.      0.
  208     UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

  209     KK      G1
  210     KM   BASIN G1
  211     KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
  212     KM    L=      2.3  Lca=       .8   S=   39.0  Kn= .045  LAG=  40.0
  213     KM    PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
  214     KO                                  21
  215     BA    1.62
  216     LG     .16     .35    3.71     .29     .00
  217     UI    136.    186.    505.    677.    810.    980.   1261.   1713.   1404.   1145.
  218     UI    947.    772.    617.    407.    240.    224.    140.    126.     42.     42.
  219     UI     42.     42.     42.      0.      0.      0.      0.      0.      0.      0.
```

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

 220      UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *

 221      KK   RIVER   FLOW DIRECTLY INTO THE HASSAYAMPA RIVER
 222      KM      Combining A1+A2+A3 & B1+B2+B3 & C1+C2+C3 & D1 & G1
 223      KO                                      21
 224      HC       5
 225      KM   ********************************************************************************
          *

 226      KK      E1
 227      KM   BASIN E1
 228      KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
 229      KM    L=      1.8  Lca=       .9   S=  244.0  Kn= .055  LAG=  34.0
 230      KM    PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN
 231      KO                                      21
 232      BA    1.11
 233      LG     .22     .37    4.74     .21    1.00
 234      UI    110.    200.    469.    705.    864.   1211.    884.    665.    577.    498.
 235      UI    421.    338.    276.    245.    201.    155.    132.    120.     85.     84.
 236      UI     56.     54.     54.     29.     21.     21.     21.     21.     21.     21.
 237      UI     21.      0.      0.      0.      0.      0.      0.      0.      0.      0.
 238      UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *

 239      KK   E1-1E  Routing thru E2
 240      KO                                      21
 241      RS       6    FLOW       0
 242      RC    .050    .047    .046   11890 .021447
 243      RX       0      65     140     170     185     200     270     340
 244      RY      24      21      17      10      10      14      18      22
          *

 245      KK      E2
 246      KM   BASIN E2
 247      KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
 248      KM    L=      2.3  Lca=       .8   S=  113.0  Kn= .060  LAG=  44.0
 249      KM    PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
 250      KO                                      21
 251      BA    1.86
 252      LG     .18     .37    4.43     .22     .00
 253      UI    142.    142.    488.    653.    792.    924.   1110.   1484.   1792.   1418.
 254      UI   1185.    997.    829.    689.    492.    295.    241.    202.    142.    110.
 255      UI     44.     44.     44.     44.     44.     44.      0.      0.      0.      0.
 256      UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *

 257      KK      1E
 258      KM      Combining E1 & E2
 259      KO                                      21
 260      HC       2
          *
```

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

 261      KK  DIV-1E  DIVERSION AT PARKWAY
 262      DT    1E-D
 263      DI    4035    4057    4094    4149    4228    4377
 264      DQ       0       6      27      67     132     267
          *

 265      KK   1E-2E  Routing thru E3
 266      KO                                    21
 267      RS      12    FLOW       0
 268      RC    .052    .046    .052   20000     .01
 269      RX       0      80     120     160     170     210     250     300
 270      RY      20      17      14      10      10      15      18      20
          *

 271      KK      F1
 272      KM   BASIN F1
 273      KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
 274      KM    L=      3.8  Lca=      1.5   S=  472.0  Kn= .050  LAG=  43.0
 275      KM    PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN
 276      KO                                    21
 277      BA    2.84
 278      LG     .28     .35    3.98     .34   13.00
 279      UI    222.    231.    710.   1093.   1443.   1694.   2119.   2472.   1593.   1339.
 280      UI   1203.   1070.    943.    827.    694.    571.    525.    478.    388.    319.
 281      UI    283.    243.    228.    170.    170.    131.    109.    109.    109.     70.
 282      UI     43.     43.     43.     43.     43.     43.     43.     43.     43.      0.
 283      UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
 284      UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *

 285      KK   F1-1F  Routing thru F2
 286      KO                                    21
 287      RS       6    FLOW       0
 288      RC    .053    .045    .055   18320 .033297
 289      RX       0      60     120     146     178     208     268     328
 290      RY      27      26      25      10      10      24      26      28
          *

 291      KK      F2
 292      KM   BASIN F2
 293      KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
 294      KM    L=      3.5  Lca=      1.5   S=  176.0  Kn= .050  LAG=  50.0
 295      KM    PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN
 296      KO                                    21
 297      BA    2.88
 298      LG     .20     .35    4.03     .35    2.00
 299      UI    194.    194.    449.    770.   1096.   1314.   1498.   1817.   2283.   1541.
 300      UI   1245.   1124.   1016.    925.    825.    745.    638.    539.    481.    449.
 301      UI    410.    336.    290.    248.    227.    212.    181.    149.    149.    122.
 302      UI     95.     95.     95.     95.     49.     37.     37.     37.     37.     37.
 303      UI     37.     37.     37.     37.     37.     37.      0.      0.      0.      0.
 304      UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *
```

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

305       KK      1F
306       KM      Combining F1 & F2
307       KO                                      21
308       HC       2
          *

309       KK   1F-2F  Routing thru F3
310       KO                                      21
311       RS       4    FLOW       0
312       RC    .050    .047    .048    6680 .012575
313       RX       0      70     145     175     192     219     289     359
314       RY      16      15      13      10      10      12      14      16
          *

315       KK      F3
316       KM   BASIN F3
317       KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
318       KM    L=      1.3  Lca=       .6   S=   66.0  Kn= .060  LAG=  36.0
319       KM    PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
320       KO                                      21
321       BA     .37
322       LG     .17     .35    3.30     .82     .00
323       UI     35.     62.    142.    187.    227.    287.    418.    377.    296.    240.
324       UI    191.    146.     81.     59.     45.     35.     13.     11.     11.     11.
325       UI     11.      0.      0.      0.      0.      0.      0.      0.      0.      0.
326       UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *

327       KK  RTV-2F  Retrieve diversion
328       DR    1E-D
          *

329       KK      2F
330       KM      Combining F1+F2 & F3 & 1E-D
331       KO                                      21
332       HC       3
          *

333       KK  DIV-2F  Divert 2F-D
334       DT    2F-D
335       DI    2559    2641    2737    2851    2990    3190
336       DQ       0       7      31      77     150     288
          *

337       KK   2F-2E  Routing thru F4
338       KO                                      21
339       RS      11    FLOW       0
340       RC    .050    .044    .050   14310 .013697
341       RX       0      70     150     190     205     235     310     390
342       RY      15      14      13      10      10      35      37      39
          *
```

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

343       KK      E3
344       KM   BASIN E3
345       KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
346       KM    L=      3.5  Lca=      2.0   S=   57.0  Kn= .050  LAG=  69.0
347       KM    PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
348       KO                                    21
349       BA    2.52
350       LG     .17     .35    3.87     .32     .00
351       UI    123.    123.    123.    354.    464.    577.    642.    707.    784.    889.
352       UI    986.   1196.   1510.   1542.   1291.   1129.   1016.    923.    809.    725.
353       UI    634.    577.    455.    347.    217.    213.    202.    177.    123.    123.
354       UI    111.     38.     38.     38.     38.     38.     38.     38.     38.     38.
355       UI     38.      0.      0.      0.      0.      0.      0.      0.      0.      0.
356       UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *

357       KK      F4
358       KM   BASIN F4
359       KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
360       KM    L=      2.7  Lca=       .9   S=   72.0  Kn= .050  LAG=  45.0
361       KM    PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
362       KO                                    21
363       BA    2.25
364       LG     .17     .35    4.23     .44     .00
365       UI    169.    169.    555.    760.    921.   1072.   1277.   1687.   2115.   1760.
366       UI   1455.   1242.   1033.    857.    678.    415.    294.    277.    174.    169.
367       UI     66.     52.     52.     52.     52.     52.      0.      0.      0.      0.
368       UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *

369       KK      2E
370       KM      Combining E1+E2 & E3 & F1+F2+F3+F4
371       KO                                    21
372       HC       4
          *

373       KK   2E-3E  Routing thru E4
374       KO                                    21
375       RS       9    FLOW       0
376       RC    .056    .049    .056   11000    .006
377       RX       0      60     180     225     237     272     422     472
378       RY      21      18      14      10      10      14      18      21
          *

379       KK      H1
380       KM   BASIN H1
381       KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
382       KM    L=      2.2  Lca=      1.0   S=   70.0  Kn= .060  LAG=  52.0
383       KM    PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
384       KO                                    21
385       BA    1.06
386       LG     .17     .35    3.07     .93     .00
387       UI     69.     69.    164.    272.    339.    389.    447.    520.    641.    857.
388       UI    796.    652.    566.    489.    417.    354.    296.    212.    126.    116.
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LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

389       UI    107.     69.     69.     33.     21.     21.     21.     21.     21.     21.
390       UI     21.      0.      0.      0.      0.      0.      0.      0.      0.      0.
391       UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *

392       KK  RTV-1H  Retrieve Divert 2F-D
393       DR    2F-D
          *

394       KK      1H
395       KM      Combining H1 & 2F-D
396       KO                                      21
397       HC       2
          *

398       KK  DIV-1H  Divert 1H-D
399       DT    1H-D
400       DI    2183    2284    2413    2590    2823    3198    3307    3478
401       DQ       0      17      76     192     369     693     783     926
          *

402       KK   1H-3E  Routing thru H2
403       KO                                      21
404       RS      50    FLOW       0
405       RC    .053    .050    .053   19810 .010045
406       RX       0     110     210     245     275     310     410     520
407       RY      15      14      12      10      10      12      14      15
          *

408       KK      E4
409       KM   BASIN E4
410       KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
411       KM    L=      2.8  Lca=      1.4   S=   28.0  Kn= .050  LAG=  64.0
412       KM    PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
413       KO                                      21
414       BA     .79
415       LG     .17     .34    4.28     .42     .00
416       UI     41.     41.     47.    139.    171.    202.    228.    253.    286.    322.
417       UI    388.    495.    521.    431.    374.    336.    298.    261.    231.    202.
418       UI    172.    127.     83.     72.     68.     59.     41.     41.     30.     13.
419       UI     13.     13.     13.     13.     13.     13.     13.     13.      0.      0.
420       UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *

421       KK      H2
422       KM   BASIN H2
423       KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
424       KM    L=      3.8  Lca=      2.2   S=   53.0  Kn= .050  LAG=  75.0
425       KM    PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
426       KO                                      21
427       BA    1.42
428       LG     .17     .35    3.64     .69     .00
429       UI     64.     64.     64.    144.    227.    274.    314.    350.    381.    420.
430       UI    470.    518.    624.    771.    825.    696.    611.    550.    506.    452.
431       UI    403.    366.    323.    294.    235.    184.    116.    113.    105.    105.
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LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

 432      UI     68.     64.     64.     44.     20.     20.     20.     20.     20.     20.
 433      UI     20.     20.     20.     20.      0.      0.      0.      0.      0.      0.
 434      UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *

 435      KK      3E
 436      KM      Combining E1+E2+E3+F1+F2+F3+F4 & E4 & H1 & H2
 437      KO                                      21
 438      HC       4
          *

 439      KK   3E-4E  Routing thru E5
 440      KO                                      21
 441      RS      12    FLOW       0
 442      RC    .060    .050    .060   15000   .0045
 443      RX       0      10      80      90     110     120     190     200
 444      RY      21      17      15      10      10      14      16      20
          *

 445      KK      J1
 446      KM   BASIN J1
 447      KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
 448      KM    L=      3.3  Lca=      1.4   S=   88.0  Kn= .060  LAG=  66.0
 449      KM    PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
 450      KO                                      21
 451      BA    1.77
 452      LG     .17     .35    3.71     .65     .00
 453      UI     91.     91.     91.    292.    364.    432.    492.    540.    605.    686.
 454      UI    791.    999.   1180.   1014.    869.    772.    699.    612.    545.    477.
 455      UI    427.    340.    252.    160.    156.    149.    118.     91.     91.     60.
 456      UI     28.     28.     28.     28.     28.     28.     28.     28.     28.      0.
 457      UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
 458      UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *

 459      KK  RTV-1J  Retrieve Divert 1H-D
 460      DR    1H-D
          *

 461      KK      1J
 462      KM      Combining J1 & 1H-D
 463      KO                                      21
 464      HC       2
          *

 465      KK  DIV-1J  Divert 1J-D
 466      DT    1J-D
 467      DI    1716    1882    2074    2317    3047    2915
 468      DQ       0      18      79     203     348     628
          *
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```
LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

469       KK   1J-4E  Routing thru J2
470       KO                                    21
471       RS     79    FLOW       0
472       RC   .052    .065    .053   28445 .008578
473       RX      0      40      80      90     320     330     370     410
474       RY     13      12      11      10      10      11      12      13
          *

475       KK     J2
476       KM   BASIN J2
477       KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
478       KM    L=      5.4  Lca=      3.1   S=   45.0  Kn= .050  LAG= 102.0
479       KM    PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
480       KO                                    21
481       BA    3.66
482       LG     .17     .35    4.09     .51     .00
483       UI    121.    121.    121.    121.    206.    397.    455.    524.    578.    628.
484       UI    671.    718.    769.    829.    908.    965.   1094.   1304.   1454.   1602.
485       UI   1407.   1260.   1149.   1063.    994.    939.    852.    788.    730.    675.
486       UI    615.    575.    515.    438.    347.    269.    214.    214.    199.    198.
487       UI    192.    121.    121.    121.    121.     89.     37.     37.     37.     37.
488       UI     37.     37.     37.     37.     37.     37.     37.     37.     37.     37.
489       UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
490       UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

491       KK     K1
492       KM   BASIN K1
493       KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
494       KM    L=      3.1  Lca=      1.8   S=  759.0  Kn= .050  LAG=  39.0
495       KM    PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN
496       KO                                    21
497       BA    1.54
498       LG     .37     .35    4.03     .36   17.00
499       UI    133.    184.    468.    744.    936.   1126.   1522.   1032.    816.    722.
500       UI    637.    551.    473.    382.    328.    297.    251.    200.    170.    146.
501       UI    131.    102.    102.     65.     65.     65.     52.     25.     25.     25.
502       UI     25.     25.     25.     25.     25.     25.      0.      0.      0.      0.
503       UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *

504       KK   K1-1K  Routing thru K2
505       KO                                    21
506       RS     21    FLOW       0
507       RC   .048    .050    .048   28440 .027602
508       RX      0      20      55      85     235     259     289     309
509       RY     22      21      20      10      10      20      21      22
          *

510       KK     K2
511       KM   BASIN K2
512       KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
513       KM    L=      5.4  Lca=      3.8   S=  146.0  Kn= .060  LAG= 106.0
514       KM    PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
515       KO                                    21
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LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

 516      BA    2.42
 517      LG     .19     .35    3.77     .30    1.00
 518      UI     77.     77.     77.     77.     99.    252.    279.    316.    360.    387.
 519      UI    419.    442.    470.    508.    552.    589.    635.    735.    875.    955.
 520      UI    994.    876.    789.    723.    671.    630.    597.    543.    503.    470.
 521      UI    435.    396.    371.    343.    294.    229.    204.    136.    136.    132.
 522      UI    126.    126.    103.     77.     77.     77.     77.     45.     24.     24.
 523      UI     24.     24.     24.     24.     24.     24.     24.     24.     24.     24.
 524      UI     24.     24.     24.      0.      0.      0.      0.      0.      0.      0.
 525      UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *

 526      KK  RTV-1K  Retrieve Divert
 527      DR    1J-D
          *

 528      KK      1K
 529      KM      Combining K1 & K2 & IJ-D
 530      KO                                  21
 531      HC       3
          *

 532      KK  DIV-1K  Divert 1K-D
 533      DT    1K-D
 534      DI    2699    2849    3014    3203    3425    3670
 535      DQ       0      10      44     109     213     371
          *

 536      KK   1K-4E  Routing thru K3
 537      KO                                  21
 538      RS      21    FLOW       0
 539      RC    .050    .048    .050   23874 .009131
 540      RX       0      90     190     202     220     232     332     422
 541      RY    16.5    14.5    11.5      10      10    11.5    14.5    16.5
          *

 542      KK      K3
 543      KM   BASIN K3
 544      KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
 545      KM    L=      4.5  Lca=      2.4   S=   48.0  Kn= .050  LAG=  85.0
 546      KM    PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
 547      KO                                  21
 548      BA    1.65
 549      LG     .16     .35    3.85     .60     .00
 550      UI     65.     65.     65.     79.    215.    247.    296.    327.    359.    385.
 551      UI    419.    465.    505.    567.    695.    804.    841.    719.    639.    580.
 552      UI    536.    495.    444.    405.    369.    331.    307.    258.    198.    153.
 553      UI    116.    114.    108.    108.     70.     65.     65.     65.     21.     20.
 554      UI     20.     20.     20.     20.     20.     20.     20.     20.     20.     20.
 555      UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
 556      UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
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LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

557       KK      E5
558       KM   BASIN E5
559       KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
560       KM    L=      2.9  Lca=      1.6   S=   26.0  Kn= .050  LAG=  69.0
561       KM    PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
562       KO                                    21
563       BA    1.36
564       LG     .18     .34    4.30     .43     .00
565       UI     66.     66.     66.    191.    250.    311.    346.    381.    422.    479.
566       UI    531.    644.    814.    831.    696.    608.    547.    497.    436.    391.
567       UI    341.    311.    245.    187.    117.    115.    109.     95.     66.     66.
568       UI     60.     20.     20.     20.     20.     20.     20.     20.     20.     20.
569       UI     20.      0.      0.      0.      0.      0.      0.      0.      0.      0.
570       UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *

571       KK      4E
572       KM      Combining E1+E2+E3+E4+F1+F2+F3+F4+H1+H2 & J1 & K1+K2 & E5 & J2 & K3
573       KO                                    21
574       HC       6
          *

575       KK   4E-5E  Routing thru E6
576       KO                                    21
577       RS       5    FLOW       0
578       RC    .063    .051    .063    5000    .006
579       RX       0     150     280     290     330     340     530     680
580       RY      17      13      13      10      10      12      12      17
          *

581       KK      E6
582       KM   BASIN E6
583       KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
584       KM    L=       .5  Lca=       .5   S=   34.0  Kn= .050  LAG=  22.0
585       KM    PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
586       KO                                    21
587       BA     .21
588       LG     .17     .34    3.92     .35     .00
589       UI     33.    131.    196.    297.    368.    250.    174.     90.     51.     29.
590       UI     10.     10.     10.      0.      0.      0.      0.      0.      0.      0.
591       UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *

592       KK      5E
593       KM      Combining E1+E2+E3+E4+F1+F2+F3+F4+H1 & J1 & K1+K2 & E5 & H2 & J2 & K3 & E6
594       KO                                    21
595       HC       2
          *
596       KM    ****************** BASIC STUDY - COMBINED STREAM FLOW **********************
          *
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LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

 597      KK      L1
 598      KM    BASIN L1
 599      KM     THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
 600      KM     L=      4.0  Lca=      1.6   S=  450.0  Kn= .050  LAG=  46.0
 601      KM     PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN
 602      KO                                    21
 603      BA     3.48
 604      LG      .28     .35    3.92     .34   15.00
 605      UI     255.    255.    713.   1133.   1568.   1848.   2155.   2898.   2287.   1685.
 606      UI    1488.   1335.   1207.   1062.    940.    800.    659.    607.    559.    476.
 607      UI     399.    326.    300.    279.    227.    195.    195.    135.    125.    125.
 608      UI     125.     84.     49.     49.     49.     49.     49.     49.     49.     49.
 609      UI      49.     49.      0.      0.      0.      0.      0.      0.      0.      0.
 610      UI       0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *

 611      KK    L1-1L  Routing thru L2
 612      KO                                    21
 613      RS       15    FLOW       0
 614      RC     .046    .045    .046   30784 .020335
 615      RX        0      80     165     200     215     255     340     420
 616      RY       19      17      14      10      10      14      18      22
          *

 617      KK      L2
 618      KM    BASIN L2
 619      KM     THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
 620      KM     L=      5.8  Lca=      2.7   S=  107.0  Kn= .065  LAG= 109.0
 621      KM     PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
 622      KO                                    21
 623      BA     7.32
 624      LG      .18     .35    4.14     .38     .00
 625      UI     226.    226.    226.    226.    226.    735.    799.    892.   1044.   1110.
 626      UI    1214.   1281.   1358.   1449.   1562.   1698.   1790.   2004.   2303.   2693.
 627      UI    3013.   2767.   2470.   2247.   2075.   1941.   1825.   1719.   1576.   1463.
 628      UI    1359.   1266.   1157.   1086.   1004.    866.    671.    611.    400.    400.
 629      UI     391.    371.    371.    332.    226.    226.    226.    226.    186.     69.
 630      UI      69.     69.     69.     69.     69.     69.     69.     69.     69.     69.
 631      UI      69.     69.     69.     69.     69.      0.      0.      0.      0.      0.
 632      UI       0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *

 633      KK   RTV-1L  Retrieve Divert 1K-D
 634      DR     1K-D
          *

 635      KK      1L
 636      KM      Combining L1 & L2 & IK-D
 637      KO                                    21
 638      HC       3
          *
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LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

  639     KK  DIV-1L  Divert 1L-D
  640     DT    1L-D
  641     DI    6842    6967    7130    7361    7585    7889
  642     DQ       0      21      96     251     418     670
          *

  643     KK   1L-2L  Routing thru L3
  644     KO                                    21
  645     RS      15    FLOW       0
  646     RC    .048    .070    .042   17310 .012998
  647     RX       0     160     230     232     248     250     320     480
  648     RY      14      12    11.3      10      10    11.3      12      14
          *

  649     KK      L3
  650     KM   BASIN L3
  651     KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
  652     KM    L=      3.3  Lca=      1.6   S=   69.0  Kn= .055  LAG=  67.0
  653     KM    PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
  654     KO                                    21
  655     BA    6.85
  656     LG     .23     .30    4.19     .40     .00
  657     UI    344.    344.    344.   1066.   1362.   1634.   1848.   2030.   2265.   2560.
  658     UI   2913.   3720.   4385.   4003.   3399.   3011.   2729.   2413.   2131.   1888.
  659     UI   1665.   1421.   1052.    709.    609.    566.    539.    344.    344.    335.
  660     UI    106.    106.    106.    106.    106.    106.    106.    106.    106.    106.
  661     UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
  662     UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *

  663     KK      2L
  664     KM      Combining L1+L2 & L3
  665     KO                                    21
  666     HC       2
          *

  667     KK      M5
  668     KM   BASIN M5
  669     KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
  670     KM    L=      2.1  Lca=       .7   S=   51.0  Kn= .055  LAG=  44.0
  671     KM    PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
  672     KO                                    21
  673     BA     .76
  674     LG     .18     .34    4.24     .41     .00
  675     UI     58.     58.    200.    268.    325.    379.    455.    609.    735.    582.
  676     UI    486.    409.    340.    283.    202.    121.     99.     83.     58.     45.
  677     UI     18.     18.     18.     18.     18.     18.      0.      0.      0.      0.
  678     UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *
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LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

679       KK  RTVBES  Retreive Divert 1L-D
680       DR    1L-D
          *

681       KK    BES1  BUCKEYE STRUCTURE NO. 1
682       KM      Combining 5E & L1+L2 & M5 & IL-D
683       KO                                    21
684       HC       4
685       KM  ********************************************************************************
          *

686       KK      M1
687       KM   BASIN M1
688       KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
689       KM    L=      4.2  Lca=      2.6   S=  368.0  Kn= .050  LAG=  58.0
690       KM    PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN
691       KO                                    21
692       BA    3.32
693       LG     .25     .35    3.77     .31   17.00
694       UI    193.    193.    312.    628.    871.   1160.   1324.   1478.   1723.   2214.
695       UI   1896.   1372.   1188.   1104.   1009.    929.    849.    769.    693.    611.
696       UI    514.    474.    447.    415.    367.    316.    261.    246.    222.    211.
697       UI    194.    148.    148.    148.    106.     94.     94.     94.     94.     75.
698       UI     37.     37.     37.     37.     37.     37.     37.     37.     37.     37.
699       UI     37.     37.     37.      0.      0.      0.      0.      0.      0.      0.
700       UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

701       KK      M2
702       KM   BASIN M2
703       KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
704       KM    L=      3.8  Lca=      1.9   S=  398.0  Kn= .050  LAG=  49.0
705       KM    PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN
706       KO                                    21
707       BA    1.68
708       LG     .26     .35    4.30     .40   20.00
709       UI    116.    116.    278.    473.    672.    797.    906.   1134.   1326.    861.
710       UI    723.    658.    591.    537.    477.    423.    365.    301.    278.    259.
711       UI    230.    190.    154.    146.    127.    126.     89.     89.     86.     57.
712       UI     57.     57.     57.     40.     22.     22.     22.     22.     22.     22.
713       UI     22.     22.     22.     22.     22.      0.      0.      0.      0.      0.
714       UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

715       KK      M3
716       KM   BASIN M3
717       KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
718       KM    L=      1.2  Lca=       .6   S=  478.0  Kn= .050  LAG=  21.0
719       KM    PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN
720       KO                                    21
721       BA     .54
722       LG     .29     .35    3.87     .34    9.00
723       UI     91.    359.    618.    881.    548.    426.    327.    231.    184.    125.
724       UI     98.     70.     51.     42.     26.     16.     16.     16.     16.      0.
725       UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
726       UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *
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LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

  727     KK      1M
  728     KM      Combining M1 & M2 & M3
  729     KO                                      21
  730     HC       3
          *

  731     KK   1M-2M  Routing thru M4
  732     KO                                      21
  733     RS      28    FLOW       0
  734     RC    .047    .042    .047   36390 .015224
  735     RX       0     110     240     252     262     274     404     514
  736     RY      15      14      13      10      10      12      15      17
          *

  737     KK      M4
  738     KM   BASIN M4
  739     KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
  740     KM    L=      6.9  Lca=      2.6   S=   80.0  Kn= .065  LAG= 122.0
  741     KM    PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
  742     KO                                      21
  743     BA    8.18
  744     LG     .17     .35    4.30     .42    1.00
  745     UI   226.    226.    226.    226.    226.    426.    742.    826.    903.   1039.
  746     UI  1105.   1192.   1255.   1319.   1393.   1488.   1603.   1705.   1791.   1990.
  747     UI  2252.   2623.   2848.   2960.   2638.   2399.   2211.   2060.   1947.   1834.
  748     UI  1754.   1624.   1504.   1412.   1334.   1240.   1148.   1087.   1029.    866.
  749     UI   737.    649.    489.    400.    400.    386.    371.    371.    363.    226.
  750     UI   226.    226.    226.    226.    157.     69.     69.     69.     69.     69.
  751     UI    69.     69.     69.     69.     69.     69.     69.     69.     69.     69.
  752     UI    69.     69.      0.      0.      0.      0.      0.      0.      0.      0.
  753     UI     0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *

  754     KK      2M
  755     KM      Combining M1+M2+M3 & M4
  756     KO                                      21
  757     HC       2
          *

  758     KK      N1
  759     KM   BASIN N1
  760     KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
  761     KM    L=      2.0  Lca=       .8   S=  465.0  Kn= .050  LAG=  27.0
  762     KM    PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN
  763     KO                                      21
  764     BA    1.46
  765     LG     .28     .35    4.19     .38    8.00
  766     UI   183.    499.   1049.   1415.   1971.   1250.   1004.    834.    674.    504.
  767     UI   423.    337.    247.    206.    159.    136.     89.     89.     60.     35.
  768     UI    35.     35.     35.     35.      0.      0.      0.      0.      0.      0.
  769     UI     0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
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LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

 770      KK   N1-1N  Routing thru N2
 771      KO                                    21
 772      RS     21    FLOW       0
 773      RC   .050    .047    .050   26520 .018401
 774      RX      0      70     140     148     157     171     241     311
 775      RY     14      13    11.5      10      10    11.5      13      14
          *

 776      KK     N2
 777      KM   BASIN N2
 778      KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
 779      KM    L=      5.0  Lca=      2.4   S=   97.0  Kn= .065  LAG= 101.0
 780      KM    PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
 781      KO                                    21
 782      BA    4.13
 783      LG     .18     .35    4.14     .39    1.00
 784      UI    138.    138.    138.    138.    249.    453.    524.    605.    663.    722.
 785      UI    772.    825.    883.    961.   1041.   1118.   1281.   1548.   1684.   1790.
 786      UI   1571.   1406.   1286.   1194.   1115.   1046.    955.    876.    817.    748.
 787      UI    687.    643.    553.    456.    396.    254.    244.    238.    226.    226.
 788      UI    184.    138.    138.    138.    138.     58.     42.     42.     42.     42.
 789      UI     42.     42.     42.     42.     42.     42.     42.     42.     42.     42.
 790      UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
 791      UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *

 792      KK     1N
 793      KM     Combining N1 & N2
 794      KO                                    21
 795      HC      2
          *

 796      KK     P1
 797      KM   BASIN P1
 798      KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
 799      KM    L=       .8  Lca=       .5   S=  844.0  Kn= .050  LAG=  14.0
 800      KM    PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN
 801      KO                                    21
 802      BA     .37
 803      LG     .39     .35    4.19     .39    8.00
 804      UI    159.    576.    810.    467.    311.    201.    121.     80.     50.     32.
 805      UI     17.     17.      0.      0.      0.      0.      0.      0.      0.      0.
 806      UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *

 807      KK   P1-1P  Routing thru P2
 808      KO                                    21
 809      RS      5    FLOW       0
 810      RC   .048    .068    .048   13340 .080510
 811      RX      0      60     120     134     144     158     218     278
 812      RY     26      25      24      10      10      26      27      28
          *
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LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

  813     KK      P2
  814     KM    BASIN P2
  815     KM     THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
  816     KM     L=      2.5  Lca=      2.0   S=  425.0  Kn= .050  LAG=  42.0
  817     KM     PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN
  818     KO                                      21
  819     BA     1.43
  820     LG      .27     .35    4.19     .40    9.00
  821     UI     114.    129.    373.    584.    758.    888.   1151.   1196.    787.    673.
  822     UI     600.    535.    467.    405.    330.    286.    261.    230.    187.    146.
  823     UI     136.    125.     98.     88.     81.     56.     56.     56.     47.     22.
  824     UI      22.     22.     22.     22.     22.     22.     22.     22.      0.      0.
  825     UI       0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *

  826     KK      1P
  827     KM      Combining P1 & P2
  828     KO                                      21
  829     HC       2
          *

  830     KK    1P-2P   Routing thru P3
  831     KO                                      21
  832     RS       15    FLOW       0
  833     RC     .053    .047    .052   19430 .024498
  834     RX        0     110     230     235     243     248     368     478
  835     RY       17      15      13      10      10      12      15      17
          *

  836     KK      P3
  837     KM    BASIN P3
  838     KM     THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
  839     KM     L=      3.7  Lca=      1.2   S=  129.0  Kn= .060  LAG=  61.0
  840     KM     PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
  841     KO                                      21
  842     BA     2.76
  843     LG      .19     .35    4.08     .38    7.00
  844     UI     153.    153.    220.    529.    656.    776.    869.    973.   1117.   1277.
  845     UI    1646.   1961.   1701.   1442.   1277.   1141.    985.    869.    755.    640.
  846     UI     468.    300.    265.    251.    199.    153.    153.     76.     47.     47.
  847     UI      47.     47.     47.     47.     47.     47.      0.      0.      0.      0.
  848     UI       0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *

  849     KK      2P
  850     KM      Combining P1+P2 & P3
  851     KO                                      21
  852     HC       2
          *
```

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

  853     KK     Q1
  854     KM   BASIN Q1
  855     KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
  856     KM    L=      2.2  Lca=      1.0   S=  471.0  Kn= .050  LAG=  31.0
  857     KM    PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN
  858     KO                                    21
  859     BA    1.09
  860     LG     .28     .35    4.24     .41   12.00
  861     UI    118.    254.    577.    817.   1056.   1224.    767.    647.    551.    461.
  862     UI    362.    293.    259.    202.    152.    132.    107.     91.     67.     58.
  863     UI     58.     30.     23.     23.     23.     23.     23.     23.      0.      0.
  864     UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *

  865     KK   Q1-1Q  Routing thru Q2
  866     KO                                    21
  867     RS       7    FLOW       0
  868     RC    .060    .058    .060   14377 .024205
  869     RX       0      80     170     179     186     216     306     386
  870     RY      17      15      13      10      10      14      21      27
          *

  871     KK     Q2
  872     KM   BASIN Q2
  873     KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
  874     KM    L=      2.7  Lca=      1.4   S=  128.0  Kn= .060  LAG=  58.0
  875     KM    PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
  876     KO                                    21
  877     BA    1.29
  878     LG     .19     .35    3.98     .35   11.00
  879     UI     75.     75.    132.    268.    341.    395.    443.    504.    577.    704.
  880     UI    918.    912.    749.    650.    579.    500.    436.    376.    317.    231.
  881     UI    144.    129.    123.     88.     75.     72.     23.     23.     23.     23.
  882     UI     23.     23.     23.     23.      0.      0.      0.      0.      0.      0.
  883     UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *

  884     KK     1Q
  885     KM     Combining Q1 & Q2
  886     KO                                    21
  887     HC      2
          *

  888     KK   BES2W  BUCKEYE STRUCTURE NO. 2 - WESTERN OR LOWER PORTION
  889     KM     Combining  M1+M2+M3+M4 & P1+P2+P3 & Q1+Q2
  890     KO                                    21
  891     HC      4
  892     KM                    ************************************
          *
```

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

 893      KK      R1
 894      KM    BASIN R1
 895      KM     THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
 896      KM     L=       .9  Lca=       .4   S=  285.0  Kn= .050  LAG=  16.0
 897      KM     PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN
 898      KO                                      21
 899      BA      .30
 900      LG      .23     .35    3.98     .35    6.00
 901      UI      94.    358.    608.    392.    281.    187.    132.     83.     58.     38.
 902      UI      30.     12.     12.     12.      0.      0.      0.      0.      0.      0.
 903      UI       0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

 904      KK      S1
 905      KM    BASIN S1
 906      KM     THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
 907      KM     L=      2.4  Lca=       .7   S=  140.0  Kn= .050  LAG=  33.0
 908      KM     PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN
 909      KO                                      21
 910      BA     1.46
 911      LG      .19     .35    3.77     .31    7.00
 912      UI     149.    284.    668.    981.   1216.   1674.   1082.    874.    754.    644.
 913      UI     540.    422.    356.    320.    240.    191.    166.    138.    114.     92.
 914      UI      73.     73.     54.     29.     29.     29.     29.     29.     29.     29.
 915      UI       0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
 916      UI       0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

 917      KK      T1
 918      KM    BASIN T1
 919      KM     THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
 920      KM     L=      3.9  Lca=      1.6   S=  304.0  Kn= .050  LAG=  49.0
 921      KM     PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN
 922      KO                                      21
 923      BA     2.96
 924      LG      .24     .35    3.61     .29   10.00
 925      UI     204.    204.    489.    832.   1183.   1403.   1595.   1997.   2334.   1516.
 926      UI    1272.   1158.   1040.    945.    840.    745.    642.    530.    490.    456.
 927      UI     406.    335.    271.    257.    223.    221.    156.    156.    151.    100.
 928      UI     100.    100.    100.     70.     39.     39.     39.     39.     39.     39.
 929      UI      39.     39.     39.     39.     39.      0.      0.      0.      0.      0.
 930      UI       0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

 931      KK      U1
 932      KM    BASIN U1
 933      KM     THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
 934      KM     L=      2.1  Lca=      1.1   S=  377.0  Kn= .050  LAG=  32.0
 935      KM     PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN
 936      KO                                      21
 937      BA     1.39
 938      LG      .26     .37    4.74     .22    8.00
 939      UI     147.    294.    688.    987.   1245.   1598.   1002.    831.    714.    602.
 940      UI     493.    381.    338.    278.    212.    177.    159.    112.    107.     72.
 941      UI      72.     67.     28.     28.     28.     28.     28.     28.     28.      0.
 942      UI       0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
 943      UI       0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *
```

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

 944      KK  BES2E   BUCKEYE STRUCTURE NO. 2 - EASTERN OR UPPER PORTION
 945      KM     Combining  R1 & S1 & T1 & U1
 946      KO                                    21
 947      HC      4
          *

 948      KK   BES2   BUCKEYE STRUCTURE NO. 2 - COMBINED
 949      KM     Combining BES2W & BES2E
 950      KO                                    21
 951      HC      2
 952      KM  ********************************************************************************
          *

 953      KK     V1
 954      KM  BASIN V1
 955      KM   THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
 956      KM   L=      2.7  Lca=      1.6   S=  389.0  Kn= .050  LAG=  40.0
 957      KM   PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN
 958      KO                                    21
 959      BA    .70
 960      LG    .26     .35    4.24     .41   13.00
 961      UI    59.     76.    200.    320.    406.    481.    660.    503.    372.    329.
 962      UI   290.    254.    221.    183.    150.    138.    123.     97.     77.     70.
 963      UI    64.     49.     45.     39.     29.     29.     29.     18.     11.     11.
 964      UI    11.     11.     11.     11.     11.     11.      0.      0.      0.      0.
 965      UI     0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

 966      KK     W1
 967      KM  BASIN W1
 968      KM   THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
 969      KM   L=      3.3  Lca=      1.6   S=  522.0  Kn= .050  LAG=  42.0
 970      KM   PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN
 971      KO                                    21
 972      BA   3.95
 973      LG    .30     .35    4.24     .40   15.00
 974      UI   317.    357.   1030.   1615.   2095.   2456.   3182.   3308.   2176.   1862.
 975      UI  1658.   1480.   1292.   1120.    914.    790.    722.    635.    518.    405.
 976      UI   375.    347.    270.    243.    223.    155.    155.    155.    129.     61.
 977      UI    61.     61.     61.     61.     61.     61.     61.     61.      0.      0.
 978      UI     0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *

 979      KK  W1-1W  Routing thru W2
 980      KO                                    21
 981      RS      6   FLOW       0
 982      RC   .065    .060    .065   12140 .079901
 983      RX      0     100     190     210     232     242     332     432
 984      RY     15      13      12      10      10      12      13      14
          *
```

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

 985      KK     W2
 986      KM   BASIN W2
 987      KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
 988      KM    L=      2.3  Lca=      1.1   S=  422.0  Kn= .050  LAG=  33.0
 989      KM    PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN
 990      KO                                    21
 991      BA    2.69
 992      LG     .27     .35    4.19     .40    3.00
 993      UI    274.    522.   1229.   1805.   2237.   3080.   1992.   1608.   1388.   1185.
 994      UI    993.    777.    656.    588.    442.    351.    306.    255.    210.    170.
 995      UI    134.    134.     99.     53.     53.     53.     53.     53.     53.     53.
 996      UI     0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
 997      UI     0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *

 998      KK     1W
 999      KM     Combining W1 & W2
1000      KO                                    21
1001      HC      2
          *

1002      KK     X1
1003      KM   BASIN X1
1004      KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
1005      KM    L=      2.3  Lca=      1.4   S=  457.0  Kn= .050  LAG=  35.0
1006      KM    PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN
1007      KO                                    21
1008      BA     .77
1009      LG     .28     .35    4.30     .43   12.00
1010      UI     74.    129.    301.    465.    569.    776.    674.    466.    404.    351.
1011      UI    300.    248.    196.    175.    151.    117.     95.     82.     70.     57.
1012      UI     50.     36.     36.     35.     14.     14.     14.     14.     14.     14.
1013      UI     14.     14.      0.      0.      0.      0.      0.      0.      0.      0.
1014      UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

1015      KK     Y1
1016      KM   BASIN Y1
1017      KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
1018      KM    L=      1.3  Lca=       .5   S=  789.0  Kn= .050  LAG=  17.0
1019      KM    PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN
1020      KO                                    21
1021      BA     .57
1022      LG     .38     .35    4.24     .42   12.00
1023      UI    160.    607.   1074.    802.    556.    393.    270.    184.    131.     88.
1024      UI     57.     43.     22.     22.     22.      0.      0.      0.      0.      0.
1025      UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *

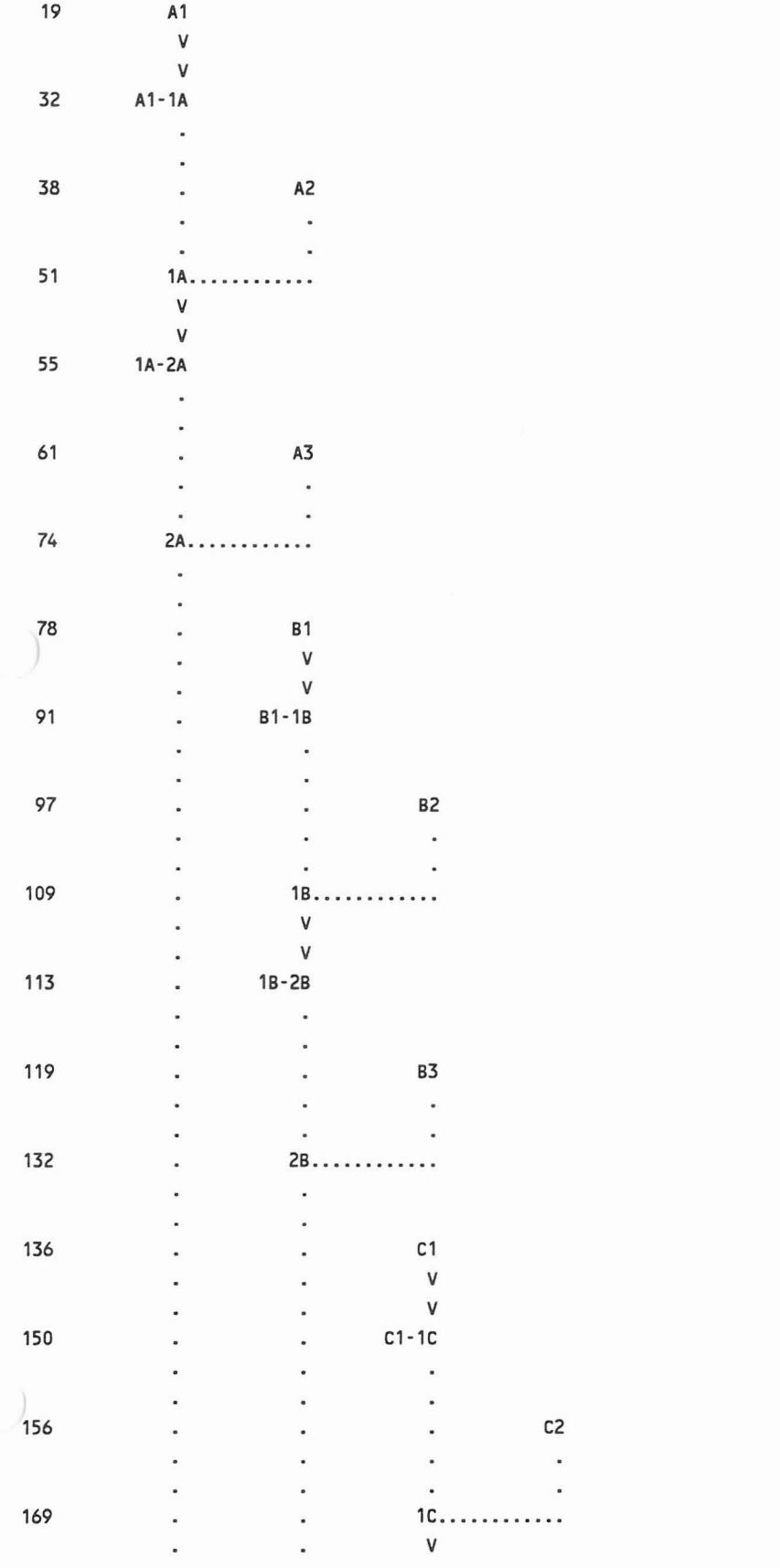
1026      KK    BES3  BUCKEYE STRUCTURE NO.3
1027      KM      Combining V1 & W1+W2 & X1 & Y1
1028      KO                                    21
1029      HC       4
          *
1030      ZZ
```

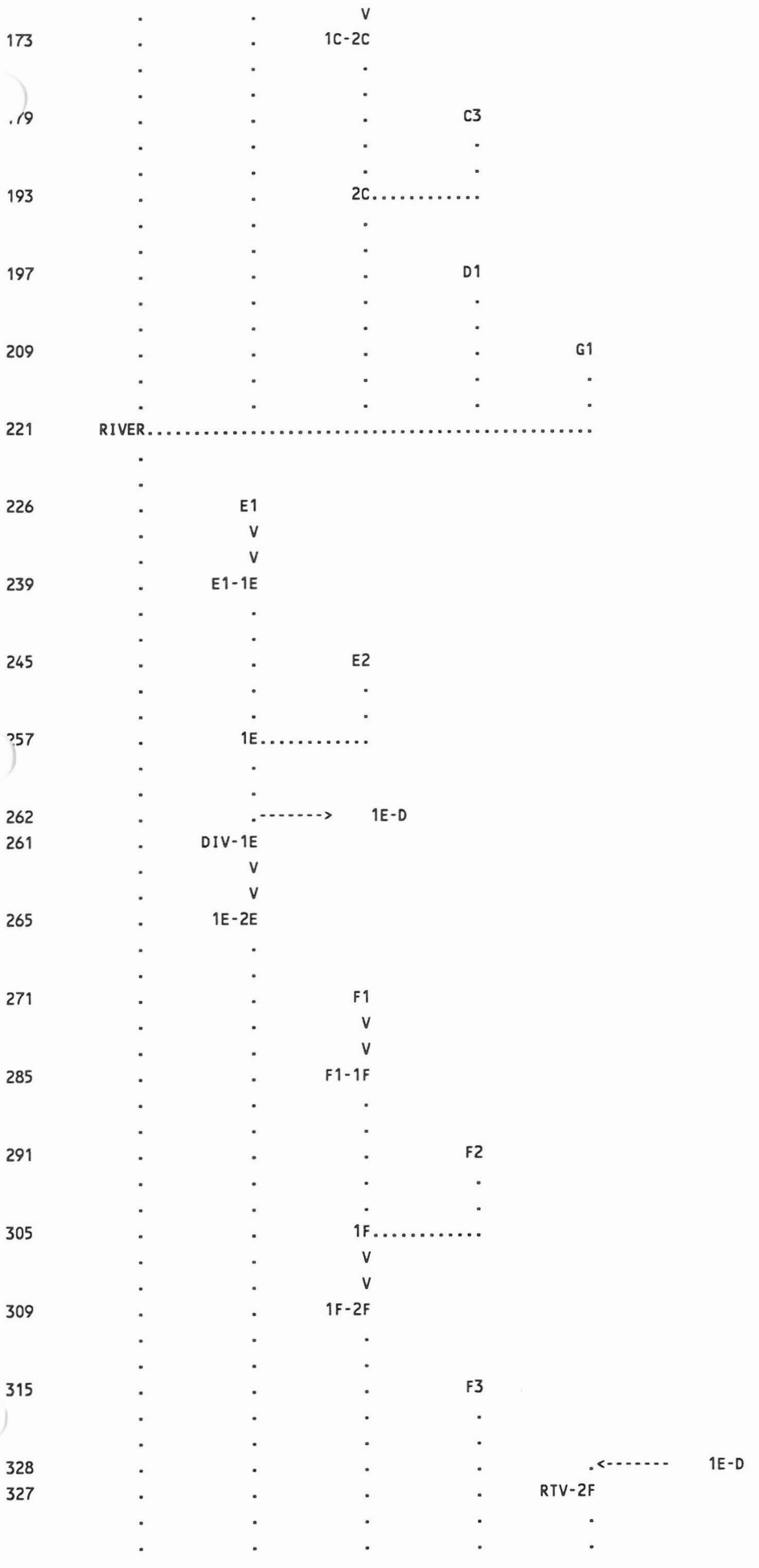
SCHEMATIC DIAGRAM OF STREAM NETWORK

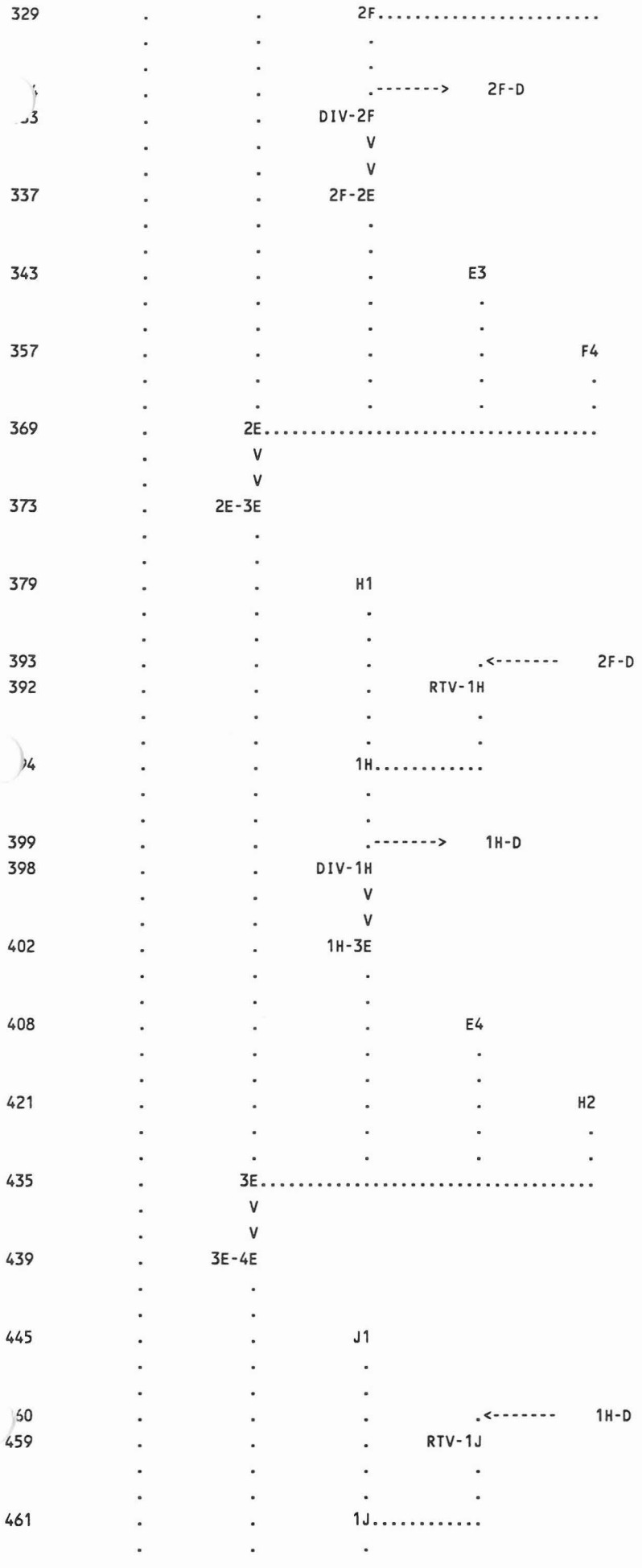
INPUT

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

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




V
173 1C-2C
C3
193 2C
197 D1
209 G1
221 RIVER
226 E1
239 E1-1E
245 E2
257 1E
262 1E-D
261 DIV-1E
265 1E-2E
271 F1
285 F1-1F
291 F2
305 1F
309 1F-2F
315 F3
328 1E-D
327 RTV-2F


329
2F
2F-D
DIV-2F
337
2F-2E
343
E3
357
F4
369
2E
373
2E-3E
379
H1
393
2F-D
392
RTV-1H
399
1H-D
398
DIV-1H
402
1H-3E
408
E4
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H2
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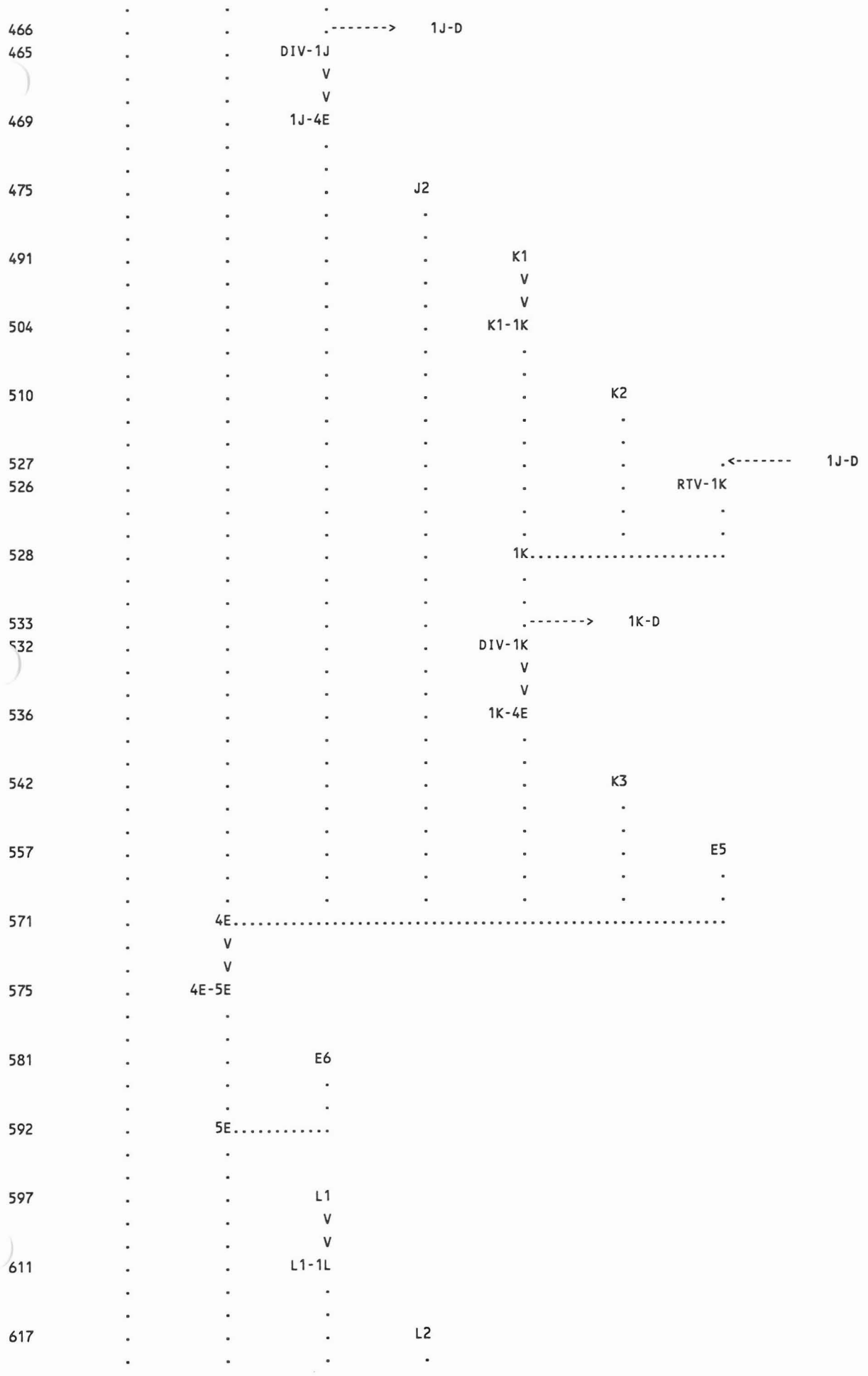
3E
439
3E-4E
445
J1
459
1H-D
RTV-1J
461
1J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1J-D
465
DIV-1J
469
1J-4E
475
J2
491
K1
504
K1-1K
510
K2
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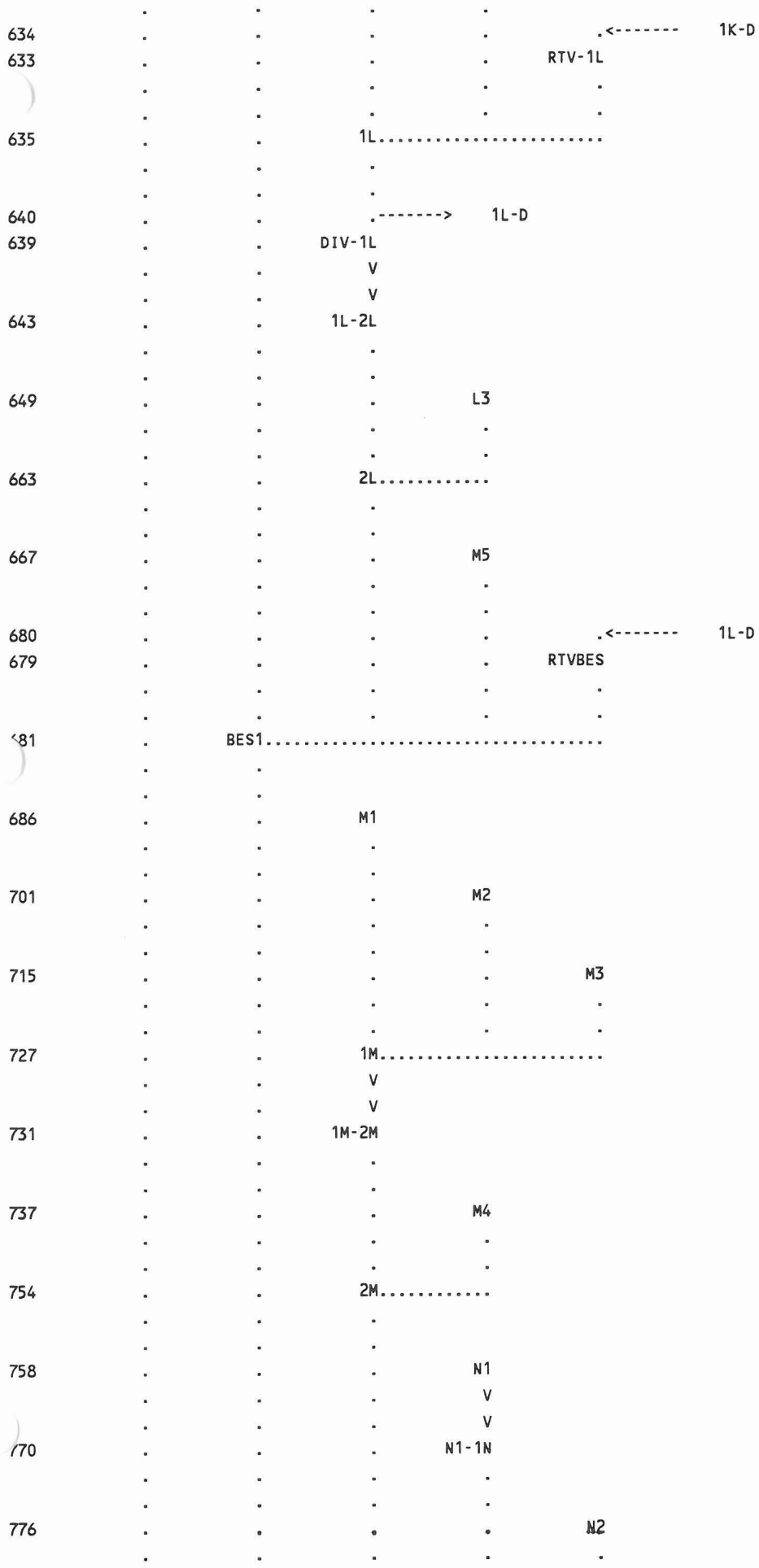
1J-D
526
RTV-1K
528
1K
533
1K-D
532
DIV-1K
536
1K-4E
542
K3
557
E5
571
4E
575
4E-5E
581
E6
592
5E
597
L1
611
L1-1L
617
L2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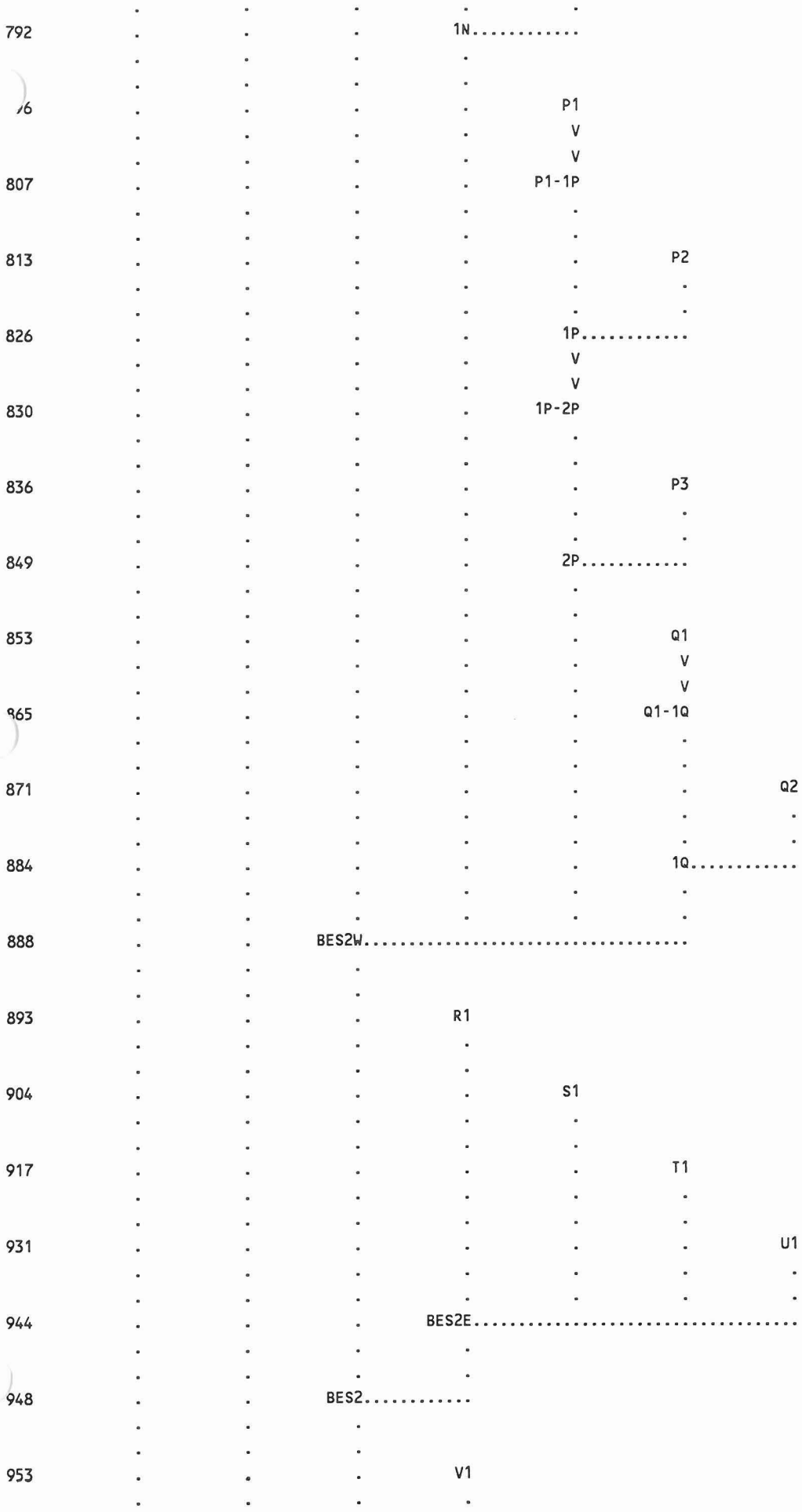
633 RTV-1L
635 1L.....
640 .-------> 1L-D
639 DIV-1L
643 1L-2L
649 L3
663 2L.....
667 M5
680 .<------- 1L-D
679 RTVBES
681 BES1.....
686 M1
701 M2
715 M3
727 1M.....
731 1M-2M
737 M4
754 2M.....
758 N1
770 N1-1N
776 N2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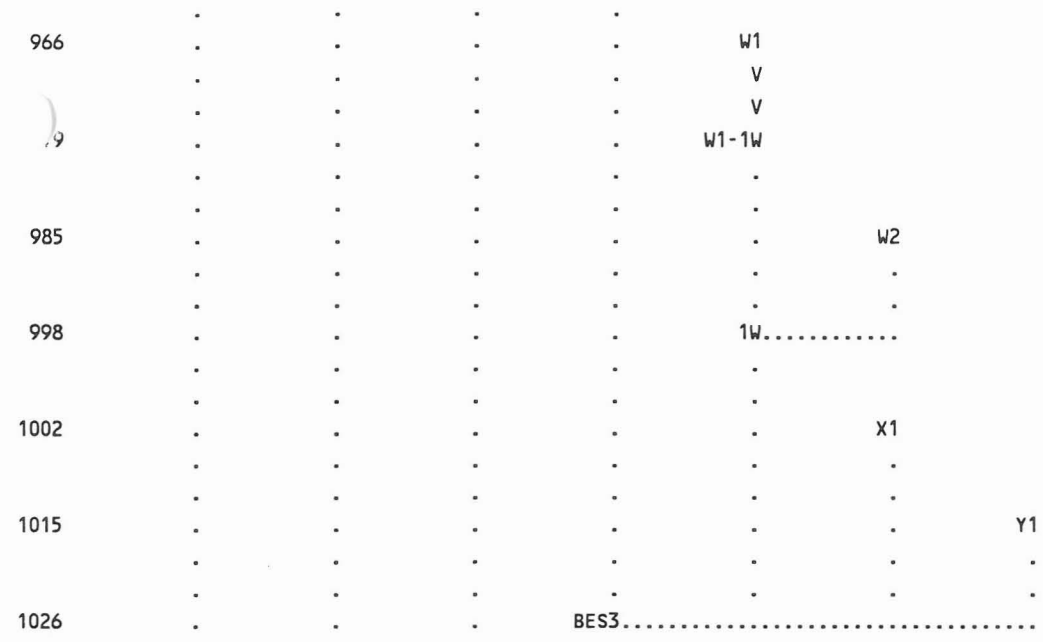
1N
806
P1
V
V
807
P1-1P
813
P2
826
1P
V
V
830
1P-2P
836
P3
849
2P
853
Q1
V
V
865
Q1-1Q
871
Q2
884
1Q
888
BES2W
893
R1
904
S1
917
T1
931
U1
944
BES2E
948
BES2
953
V1



(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

```
**************************************
*                                    *
*  FLOOD HYDROGRAPH PACKAGE (HEC-1)  *
*        SEPTEMBER 1990              *
*         VERSION 4.0                *
*                                    *
* RUN DATE 12/29/1993 TIME 15:57:48  *
*                                    *
**************************************
```


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


White Tanks Wash Flood Insurance Study - 7-Dec-93 - JRB
ALPHA Engineering Group Inc. - 5 minute interval - 6 Hour Storm

```
5 IO        OUTPUT CONTROL VARIABLES
                IPRNT          4  PRINT CONTROL
                IPLOT          0  PLOT CONTROL
                QSCAL         0.  HYDROGRAPH PLOT SCALE

6 IN        TIME DATA FOR INPUT TIME SERIES
                JXMIN         15  TIME INTERVAL IN MINUTES
                JXDATE     1    0  STARTING DATE
                JXTIME         0  STARTING TIME

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

            COMPUTATION INTERVAL      .08 HOURS
                 TOTAL TIME BASE   24.92 HOURS

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

7 JD        INDEX STORM NO. 1
                 STRM        3.24  PRECIPITATION DEPTH
                 TRDA         .10  TRANSPOSITION DRAINAGE AREA

8 PI          PRECIPITATION PATTERN
              .01   .01   .01   .00   .01   .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       .02       .02       .02       .03
                .03       .03       .04       .04       .04       .05       .05       .05       .04       .04
                .04       .02       .02       .02       .02       .02       .02       .01       .01       .01
                .01       .01       .01       .01       .01       .01       .01       .01       .01       .01
                .01       .01

11 JD         INDEX STORM NO. 2
                STRM        3.20  PRECIPITATION DEPTH
                TRDA        1.00  TRANSPOSITION DRAINAGE AREA

 0 PI          PRECIPITATION PATTERN
                .01       .01       .01       .00       .01       .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       .02       .02       .02       .03
                .03       .03       .04       .04       .04       .05       .05       .05       .04       .04
                .04       .02       .02       .02       .02       .02       .02       .01       .01       .01
                .01       .01       .01       .01       .01       .01       .01       .01       .01       .01
                .01       .01

12 JD         INDEX STORM NO. 3
                STRM        3.11  PRECIPITATION DEPTH
                TRDA        5.00  TRANSPOSITION DRAINAGE AREA

 0 PI          PRECIPITATION PATTERN
                .01       .01       .01       .00       .01       .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       .02       .02       .02       .03
                .03       .03       .04       .04       .04       .05       .05       .05       .04       .04
                .04       .02       .02       .02       .02       .02       .02       .01       .01       .01
                .01       .01       .01       .01       .01       .01       .01       .01       .01       .01
                .01       .01

13 JD         INDEX STORM NO. 4
                STRM        3.05  PRECIPITATION DEPTH
                TRDA       10.00  TRANSPOSITION DRAINAGE AREA

 0 PI          PRECIPITATION PATTERN
                .01       .01       .01       .00       .01       .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       .02       .02       .02       .03
                .03       .03       .04       .04       .04       .05       .05       .05       .04       .04
                .04       .02       .02       .02       .02       .02       .02       .01       .01       .01
                .01       .01       .01       .01       .01       .01       .01       .01       .01       .01
      .01       .01

14 JD         INDEX STORM NO. 5
                STRM        2.95  PRECIPITATION DEPTH
                TRDA       20.00  TRANSPOSITION DRAINAGE AREA

 0 PI          PRECIPITATION PATTERN
                .01       .01       .01       .00       .01       .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       .02       .02       .02       .03
                .03       .03       .04       .04       .04       .05       .05       .05       .04       .04
                .04       .02       .02       .02       .02       .02       .02       .01       .01       .01
                .01       .01       .01       .01       .01       .01       .01       .01       .01       .01
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                .01       .01

15 JD           INDEX STORM NO. 6
                STRM        2.88  PRECIPITATION DEPTH
                TRDA       30.00  TRANSPOSITION DRAINAGE AREA

 0 PI             PRECIPITATION PATTERN
                .01       .01       .01       .00       .01       .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       .02       .02       .02       .03
                .03       .03       .04       .04       .04       .05       .05       .05       .04       .04
                .04       .02       .02       .02       .02       .02       .02       .01       .01       .01
                .01       .01       .01       .01       .01       .01       .01       .01       .01       .01
                .01       .01

16 JD           INDEX STORM NO. 7
                STRM        2.82  PRECIPITATION DEPTH
                TRDA       40.00  TRANSPOSITION DRAINAGE AREA

 0 PI             PRECIPITATION PATTERN
                .01       .01       .01       .00       .01       .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       .02       .02       .02       .03
                .03       .03       .04       .04       .04       .05       .05       .05       .04       .04
                .04       .02       .02       .02       .02       .02       .02       .01       .01       .01
                .01       .01       .01       .01       .01       .01       .01       .01       .01       .01
                .01       .01

17 JD           INDEX STORM NO. 8
                STRM        2.79  PRECIPITATION DEPTH
                TRDA       50.00  TRANSPOSITION DRAINAGE AREA

 0 PI             PRECIPITATION PATTERN
                .01       .01       .01       .00       .01       .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       .02       .02       .02       .03
                .03       .03       .04       .04       .04       .05       .05       .05       .04       .04
                .04       .02       .02       .02       .02       .02       .02       .01       .01       .01
                .01       .01       .01       .01       .01       .01       .01       .01       .01       .01
                .01       .01

18 JD           INDEX STORM NO. 9
                STRM        2.56  PRECIPITATION DEPTH
                TRDA      112.00  TRANSPOSITION DRAINAGE AREA

 0 PI             PRECIPITATION PATTERN
                .01       .01       .01       .00       .01       .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       .02       .02       .02       .03
                .03       .03       .04       .04       .04       .05       .05       .05       .04       .04
                .04       .02       .02       .02       .02       .02       .02       .01       .01       .01
                .01       .01       .01       .01       .01       .01       .01       .01       .01       .01
                .01       .01
```

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


           ***************
           *             *
  19 KK    *        A1   *
           *             *
           ***************
                    BASIN A1
                      THE PC RECORD USED A 6-HOUR 3.24 INCH RAINFALL, PATTERN NO. 4.12
                     THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
                     L=      2.0  Lca=       .9   S=  414.0  Kn= .050  LAG=  29.0
                     PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN

  25 KO         OUTPUT CONTROL VARIABLES
                      IPRNT          4  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


              SUBBASIN RUNOFF DATA

  26 BA         SUBBASIN CHARACTERISTICS
                      TAREA       1.11  SUBBASIN AREA

  27 LG         GREEN AND AMPT LOSS RATE
                      STRTL        .27  STARTING LOSS
                        DTH        .35  MOISTURE DEFICIT
                       PSIF       4.19  WETTING FRONT SUCTION
                      XKSAT        .39  HYDRAULIC CONDUCTIVITY
                      RTIMP       9.00  PERCENT IMPERVIOUS AREA

  26 UI         INPUT UNITGRAPH,  26 ORDINATES,  VOLUME = 1.00
                    129.0     316.0     682.0     941.0    1322.0    1098.0     770.0     651.0     543.0     438.0
                    332.0     290.0     230.0     170.0     145.0     115.0      99.0      67.0      63.0      57.0
                     25.0      25.0      25.0      25.0      25.0      25.0

                                                                     ***



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


           ***************
           *             *
  32 KK    *     A1-1A   *       Routing thru A2
           *             *
           ***************

  33 KO         OUTPUT CONTROL VARIABLES
                      IPRNT          4  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


           HYDROGRAPH ROUTING DATA

 34 RS          STORAGE ROUTING
                  NSTPS           7  NUMBER OF SUBREACHES
                   ITYP        FLOW  TYPE OF INITIAL CONDITION
                 RSVRIC       -1.00  INITIAL CONDITION
                      X         .00 WORKING R AND D COEFFICIENT

 35 RC          NORMAL DEPTH CHANNEL
                    ANL        .045  LEFT OVERBANK N-VALUE
                   ANCH        .045  MAIN CHANNEL N-VALUE
                    ANR        .045  RIGHT OVERBANK N-VALUE
                  RLNTH      14160.  REACH LENGTH
                    SEL       .0240  ENERGY SLOPE
                  ELMAX          .0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                          CROSS-SECTION DATA
                         --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
 37 RY        ELEVATION    27.00     23.00     19.00     10.00     10.00     20.00     26.00     32.00
 36 RX        DISTANCE       .00     75.00    125.00    185.00    190.00    220.00    280.00    340.00

                                                                 ***

                                            COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

          STORAGE        .00      3.99     12.19     24.60     41.23     62.07     87.13    116.39    149.94    189.68
          OUTFLOW        .00     51.74    234.13    600.11   1196.66   2066.44   3248.97   4781.44   6777.25   9557.20
        ELEVATION      10.00     11.16     12.32     13.47     14.63     15.79     16.95     18.11     19.26     20.42

          STORAGE     238.61    297.35    366.71    448.52    542.87    649.33    762.05    879.13   1000.57   1126.36
          OUTFLOW   13060.29  17288.34  22303.60  28297.10  35403.08  43929.45  54150.73  65622.65  78336.34  92290.41
        ELEVATION      21.58     22.74     23.89     25.05     26.21     27.37     28.53     29.68     30.84     32.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN     1197. TO    92290.
                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.)



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


             **************
             *            *
 38 KK       *      A2    *
             *            *
             **************
                        BASIN A2
                         THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
                         L=      2.7  Lca=      1.2   S=  127.0  Kn= .060  LAG=  53.0
                         PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN

 43 KO          OUTPUT CONTROL VARIABLES
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                    IPRNT           4  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


              SUBBASIN RUNOFF DATA

 44 BA          SUBBASIN CHARACTERISTICS
                    TAREA        1.69  SUBBASIN AREA

 45 LG          GREEN AND AMPT LOSS RATE
                    STRTL         .19  STARTING LOSS
                      DTH         .35  MOISTURE DEFICIT
                     PSIF        3.77  WETTING FRONT SUCTION
                    XKSAT         .30  HYDRAULIC CONDUCTIVITY
                    RTIMP         .00  PERCENT IMPERVIOUS AREA

 44 UI          INPUT UNITGRAPH,  31 ORDINATES,  VOLUME = 1.00
                  108.0      108.0      246.0      417.0      523.0      603.0      685.0      799.0      960.0     1282.0
                 1311.0     1060.0      912.0      799.0      682.0      582.0      500.0      366.0      238.0      187.0
                  177.0      126.0      108.0       85.0       33.0       33.0       33.0       33.0       33.0       33.0
                   33.0

                                                        ***


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


            **************
            *            *
 51 KK      *        1A  *
            *            *
            **************
                           Combining A1 & A2

 53 KO          OUTPUT CONTROL VARIABLES
                    IPRNT           4  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


 54 HC          HYDROGRAPH COMBINATION
                    ICOMP           2  NUMBER OF HYDROGRAPHS TO COMBINE

                                                        ***
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*** ***

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         **************
         *            *
55 KK    *     1A-2A  *       Routing thru A3
         *            *
         **************
```

56 KO OUTPUT CONTROL VARIABLES

IPRNT	4	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

HYDROGRAPH ROUTING DATA

57 RS STORAGE ROUTING

NSTPS	12	NUMBER OF SUBREACHES
ITYP	FLOW	TYPE OF INITIAL CONDITION
RSVRIC	.00	INITIAL CONDITION
X	.00	WORKING R AND D COEFFICIENT

58 RC NORMAL DEPTH CHANNEL

ANL	.050	LEFT OVERBANK N-VALUE
ANCH	.043	MAIN CHANNEL N-VALUE
ANR	.050	RIGHT OVERBANK N-VALUE
RLNTH	17480.	REACH LENGTH
SEL	.0132	ENERGY SLOPE
ELMAX	.0	MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

CROSS-SECTION DATA

		--- LEFT OVERBANK ---		+ ------ MAIN CHANNEL -------		+ --- RIGHT OVERBANK ---		
60 RY	ELEVATION	20.00	19.00	18.00	10.00	10.00	20.00	21.00	22.00
59 RX	DISTANCE	.00	20.00	30.00	165.00	186.00	346.00	361.00	381.00

***

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	7.95	21.17	39.65	63.39	92.39	126.65	166.18	210.97	261.02
OUTFLOW	.00	47.90	187.07	439.66	828.51	1375.01	2099.28	3020.38	4156.53	5525.21
ELEVATION	10.00	10.63	11.26	11.89	12.53	13.16	13.79	14.42	15.05	15.68
STORAGE	316.34	376.91	442.75	513.79	589.24	669.30	755.02	844.31	936.14	1031.10
OUTFLOW	7143.27	9027.02	11192.29	13760.24	16839.72	20223.92	24020.52	28599.82	33538.85	38841.48
ELEVATION	16.32	16.95	17.58	18.21	18.84	19.47	20.11	20.74	21.37	22.00

WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 3020. TO 38841.
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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          **************
          *            *
61 KK     *        A3  *
          *            *
          **************
                    BASIN A3
                     THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
                     L=      3.3  Lca=      1.9   S=   69.0  Kn= .045  LAG=  58.0
                     PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN

66 KO          OUTPUT CONTROL VARIABLES
                    IPRNT           4  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


               SUBBASIN RUNOFF DATA

67 BA          SUBBASIN CHARACTERISTICS
                    TAREA        3.64  SUBBASIN AREA

   LG          GREEN AND AMPT LOSS RATE
                    STRTL         .17  STARTING LOSS
                      DTH         .35  MOISTURE DEFICIT
                     PSIF        4.08  WETTING FRONT SUCTION
                    XKSAT         .38  HYDRAULIC CONDUCTIVITY
                    RTIMP         .00  PERCENT IMPERVIOUS AREA

67 UI          INPUT UNITGRAPH,  34 ORDINATES,  VOLUME = 1.00
                 211.0     211.0     371.0     754.0     958.0    1111.0    1247.0    1417.0    1623.0    1981.0
                2583.0    2566.0    2106.0    1829.0    1628.0    1405.0    1227.0    1056.0     892.0     649.0
                 406.0     364.0     347.0     248.0     211.0     202.0      65.0      65.0      65.0      65.0
                  65.0      65.0      65.0      65.0
```

***

*** ***

```
          **************
          *            *
74 KK     *        2A  *
          *            *
          **************
                          Combining A1+A2 & A3

76 KO          OUTPUT CONTROL VARIABLES
                    IPRNT           4  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


77 HC       HYDROGRAPH COMBINATION
                ICOMP          2  NUMBER OF HYDROGRAPHS TO COMBINE

                                                    ***

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


       **************
       *              *
78 KK  *         B1   *
       *              *
       **************
                  BASIN B1
                   THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
                   L=      2.0  Lca=      1.1   S=  289.0  Kn= .050  LAG=  33.0
                   PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN

83 KO       OUTPUT CONTROL VARIABLES
                IPRNT          4  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


          SUBBASIN RUNOFF DATA

84 BA       SUBBASIN CHARACTERISTICS
                TAREA        .55  SUBBASIN AREA

85 LG       GREEN AND AMPT LOSS RATE
                STRTL        .23  STARTING LOSS
                  DTH        .35  MOISTURE DEFICIT
                 PSIF       4.18  WETTING FRONT SUCTION
                XKSAT        .45  HYDRAULIC CONDUCTIVITY
                RTIMP       7.00  PERCENT IMPERVIOUS AREA

84 UI       INPUT UNITGRAPH,  30 ORDINATES,  VOLUME =  .99
             56.0    106.0    249.0    366.0    453.0    624.0    404.0    326.0    281.0    240.0
            201.0    157.0    133.0    119.0     90.0     71.0     62.0     52.0     43.0     34.0
             27.0     27.0     20.0     11.0     11.0     11.0     11.0     11.0     11.0     11.0

                                                    ***

*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***
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```
         **************
         *            *
KK       *     B1-1B  *       Routing thru B2
         *            *
         **************

92 KO          OUTPUT CONTROL VARIABLES
                    IPRNT           4  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


              HYDROGRAPH ROUTING DATA

93 RS          STORAGE ROUTING
                    NSTPS           9  NUMBER OF SUBREACHES
                     ITYP        FLOW  TYPE OF INITIAL CONDITION
                   RSVRIC         .00  INITIAL CONDITION
                        X         .00 WORKING R AND D COEFFICIENT

94 RC          NORMAL DEPTH CHANNEL
                     ANL        .055  LEFT OVERBANK N-VALUE
                    ANCH        .042  MAIN CHANNEL N-VALUE
                     ANR        .055  RIGHT OVERBANK N-VALUE
                   RLNTH       10400.  REACH LENGTH
                     SEL       .0173  ENERGY SLOPE
                   ELMAX          .0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                    CROSS-SECTION DATA
                         --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
96 RY          ELEVATION     20.00     17.00     14.00     10.00     10.00     13.00     17.00     22.00
95 RX          DISTANCE        .00     75.00    140.00    167.00    193.00    226.00    296.00    371.00

                                                  ***

                                    COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

          STORAGE        .00      4.77     11.22     19.37     29.21     40.75     54.43     70.74     90.70    114.39
          OUTFLOW        .00     61.42    214.62    463.70    819.42   1310.20   1983.60   2857.88   3943.38   5242.51
        ELEVATION      10.00     10.63     11.26     11.89     12.53     13.16     13.79     14.42     15.05     15.68

          STORAGE     141.81    172.96    207.87    246.59    289.12    335.46    385.58    437.95    491.75    546.98
          OUTFLOW    6777.23   8567.56  10634.75  12996.03  15668.87  18670.42  22053.97  25975.83  30249.06  34870.38
        ELEVATION      16.32     16.95     17.58     18.21     18.84     19.47     20.11     20.74     21.37     22.00


*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN      464. TO    34870.
                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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          **************
          *            *
    KK    *        B2  *
          *            *
          **************
                        BASIN B2
                         THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
                         L=      2.0  Lca=       .9   S=   91.0  Kn= .060  LAG=  45.0
                         PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN

102 KO          OUTPUT CONTROL VARIABLES
                      IPRNT           4  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


                  SUBBASIN RUNOFF DATA

103 BA          SUBBASIN CHARACTERISTICS
                      TAREA         .49  SUBBASIN AREA

104 LG          GREEN AND AMPT LOSS RATE
                      STRTL         .18  STARTING LOSS
                        DTH         .35  MOISTURE DEFICIT
                       PSIF        4.11  WETTING FRONT SUCTION
                      XKSAT         .48  HYDRAULIC CONDUCTIVITY
                      RTIMP         .00  PERCENT IMPERVIOUS AREA

103 UI          INPUT UNITGRAPH,  26 ORDINATES,  VOLUME =  .99
                    36.0      36.0     119.0     164.0     198.0     231.0     275.0     363.0     455.0     379.0
                   313.0     267.0     222.0     184.0     146.0      89.0      63.0      60.0      38.0      36.0
                    14.0      11.0      11.0      11.0      11.0      11.0

                                                    ***

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


          **************
          *            *
109 KK    *        1B  *
          *            *
          **************
                           Combining B1 & B2

    KO          OUTPUT CONTROL VARIABLES
                      IPRNT           4  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

112 HC          HYDROGRAPH COMBINATION
                    ICOMP           2  NUMBER OF HYDROGRAPHS TO COMBINE

                                                                    ***

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


          **************
          *            *
113 KK    *     1B-2B  *       Routing thru B3
          *            *
          **************

114 KO          OUTPUT CONTROL VARIABLES
                     IPRNT           4  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


             HYDROGRAPH ROUTING DATA

115 RS          STORAGE ROUTING
                      NSTPS          21  NUMBER OF SUBREACHES
                       ITYP        FLOW  TYPE OF INITIAL CONDITION
                     RSVRIC         .00  INITIAL CONDITION
                          X         .00 WORKING R AND D COEFFICIENT

116 RC          NORMAL DEPTH CHANNEL
                        ANL        .050  LEFT OVERBANK N-VALUE
                       ANCH        .055  MAIN CHANNEL N-VALUE
                        ANR        .048  RIGHT OVERBANK N-VALUE
                      RLNTH      17140.  REACH LENGTH
                        SEL       .0134  ENERGY SLOPE
                      ELMAX          .0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                      CROSS-SECTION DATA
                           --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
118 RY       ELEVATION     27.00     25.00     22.00     10.00     10.00     17.00     21.00     25.00
117 RX       DISTANCE        .00     40.00    100.00    130.00    220.00    340.00    390.00    440.00

                                                                    ***

                                      COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

        STORAGE        .00     34.78     75.75    122.90    176.24    235.77    301.49    373.39    451.46    534.75
        OUTFLOW        .00    243.04    803.30   1647.64   2779.35   4209.96   5954.08   8027.62  10525.96  13762.53
      ELEVATION      10.00     10.89     11.79     12.68     13.58     14.47     15.37     16.26     17.16     18.05
```

STORAGE	622.77	715.51	812.97	915.17	1023.03	1140.67	1268.55	1406.56	1552.01	1703.77
OUTFLOW	17392.04	21428.18	25882.70	30766.77	36222.12	42276.27	48900.93	56205.46	64365.03	73186.95
ELEVATION	18.95	19.84	20.74	21.63	22.53	23.42	24.32	25.21	26.11	27.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 803. TO 73187.
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.)

*** ***

```
          **************
          *            *
119 KK    *        B3  *
          *            *
          **************
```

BASIN B3
THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
L= 3.3 Lca= 1.4 S= 71.0 Kn= .045 LAG= 52.0
PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN

124 KO OUTPUT CONTROL VARIABLES

IPRNT	4	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

SUBBASIN RUNOFF DATA

125 BA SUBBASIN CHARACTERISTICS

TAREA	1.97	SUBBASIN AREA

126 LG GREEN AND AMPT LOSS RATE

STRTL	.17	STARTING LOSS
DTH	.35	MOISTURE DEFICIT
PSIF	3.98	WETTING FRONT SUCTION
XKSAT	.37	HYDRAULIC CONDUCTIVITY
RTIMP	.00	PERCENT IMPERVIOUS AREA

125 UI INPUT UNITGRAPH, 31 ORDINATES, VOLUME = 1.00

128.0	128.0	305.0	506.0	630.0	724.0	830.0	966.0	1191.0	1593.0
1480.0	1212.0	1052.0	910.0	776.0	659.0	551.0	395.0	234.0	216.0
199.0	128.0	128.0	62.0	39.0	39.0	39.0	39.0	39.0	39.0
39.0									

***

*** ***

```
          **************
          *            *
    KK    *        2B  *
          *            *
          **************
                          Combining B1+B2 & B3

134 KO          OUTPUT CONTROL VARIABLES
                      IPRNT           4  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


135 HC          HYDROGRAPH COMBINATION
                      ICOMP           2  NUMBER OF HYDROGRAPHS TO COMBINE

                                                                    ***


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


          **************
          *            *
136 KK    *        C1  *
          *            *
          **************
                       BASIN C1
                        THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
                        L=      3.5  Lca=      1.9   S=  619.0  Kn= .050  LAG=  44.0
                        PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN

141 KO          OUTPUT CONTROL VARIABLES
                      IPRNT           4  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


                SUBBASIN RUNOFF DATA

142 BA          SUBBASIN CHARACTERISTICS
                      TAREA        3.58  SUBBASIN AREA

 ,3 LG          GREEN AND AMPT LOSS RATE
                      STRTL         .33  STARTING LOSS
                        DTH         .35  MOISTURE DEFICIT
                       PSIF        4.28  WETTING FRONT SUCTION
                      XKSAT         .41  HYDRAULIC CONDUCTIVITY
```

```
                RTIMP       19.00  PERCENT IMPERVIOUS AREA

142 UI       INPUT UNITGRAPH,  40 ORDINATES,  VOLUME = 1.00
               274.0     274.0     845.0    1300.0    1740.0    2055.0    2488.0    3182.0    2054.0    1694.0
              1523.0    1358.0    1207.0    1070.0     900.0     750.0     662.0     611.0     530.0     438.0
               350.0     323.0     300.0     238.0     210.0     207.0     134.0     134.0     134.0     134.0
                60.0      52.0      52.0      52.0      52.0      52.0      52.0      52.0      52.0      52.0

                                                  ***

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


          **************
          *            *
150 KK    *     C1-1C  *       Routing thru C2
          *            *
          **************

151 KO       OUTPUT CONTROL VARIABLES
                  IPRNT          4  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


             HYDROGRAPH ROUTING DATA

152 RS       STORAGE ROUTING
                  NSTPS          9  NUMBER OF SUBREACHES
                   ITYP       FLOW  TYPE OF INITIAL CONDITION
                 RSVRIC        .00  INITIAL CONDITION
                      X        .00 WORKING R AND D COEFFICIENT

153 RC       NORMAL DEPTH CHANNEL
                    ANL       .050  LEFT OVERBANK N-VALUE
                   ANCH       .044  MAIN CHANNEL N-VALUE
                    ANR       .050  RIGHT OVERBANK N-VALUE
                  RLNTH      17760.  REACH LENGTH
                    SEL      .0200  ENERGY SLOPE
                  ELMAX         .0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                        CROSS-SECTION DATA
                          --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
155 RY       ELEVATION      21.00     19.00     16.00     10.00     10.00     15.00     20.00     24.00
154 RX       DISTANCE         .00     35.00     90.00    138.00    159.00    209.00    264.00    309.00

                                                  ***

                                        COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

          STORAGE         .00      8.30     20.59     36.86     57.11     81.35    109.57    141.79    178.14    219.54
          OUTFLOW         .00     68.79    251.12    562.35   1022.73   1652.13   2469.59   3524.01   4912.23   6695.40
        ELEVATION       10.00     10.74     11.47     12.21     12.95     13.68     14.42     15.16     15.89     16.63
```

STORAGE	267.40	321.76	382.62	449.91	523.51	603.47	687.58	774.18	863.28	954.86
OUTFLOW	8802.62	11243.08	14044.60	17234.75	20832.77	24871.98	29514.76	34599.90	40122.65	46080.51
ELEVATION	17.37	18.11	18.84	19.58	20.32	21.05	21.79	22.53	23.26	24.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 2470. TO 46081.
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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          **************
          *            *
156 KK    *        C2  *
          *            *
          **************
```

BASIN C2
THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
L= 3.4 Lca= 1.4 S= 106.0 Kn= .060 LAG= 65.0
PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN

161 KO OUTPUT CONTROL VARIABLES

IPRNT	4	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

SUBBASIN RUNOFF DATA

162 BA SUBBASIN CHARACTERISTICS

TAREA	1.84	SUBBASIN AREA

163 LG GREEN AND AMPT LOSS RATE

STRTL	.18	STARTING LOSS
DTH	.35	MOISTURE DEFICIT
PSIF	4.30	WETTING FRONT SUCTION
XKSAT	.40	HYDRAULIC CONDUCTIVITY
RTIMP	.00	PERCENT IMPERVIOUS AREA

162 UI INPUT UNITGRAPH, 38 ORDINATES, VOLUME = 1.00

95.0	95.0	98.0	319.0	389.0	460.0	523.0	576.0	650.0	732.0
865.0	1095.0	1235.0	1029.0	890.0	794.0	716.0	622.0	556.0	482.0
423.0	323.0	229.0	169.0	160.0	157.0	100.0	95.0	95.0	34.0
29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0		

***

*** ***

```
         ***************
         *             *
    KK   *        1C   *
         *             *
         ***************
                           Combining C1 & C2

171 KO          OUTPUT CONTROL VARIABLES
                      IPRNT           4  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


172 HC          HYDROGRAPH COMBINATION
                      ICOMP           2  NUMBER OF HYDROGRAPHS TO COMBINE

                                                            ***



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


         ***************
         *             *
173 KK   *     1C-2C   *       Routing thru C3
         *             *
         ***************

174 KO          OUTPUT CONTROL VARIABLES
                      IPRNT           4  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


              HYDROGRAPH ROUTING DATA

175 RS          STORAGE ROUTING
                      NSTPS          11  NUMBER OF SUBREACHES
                       ITYP        FLOW  TYPE OF INITIAL CONDITION
                     RSVRIC         .00  INITIAL CONDITION
                          X         .00 WORKING R AND D COEFFICIENT

    RC          NORMAL DEPTH CHANNEL
                        ANL        .046  LEFT OVERBANK N-VALUE
                       ANCH        .050  MAIN CHANNEL N-VALUE
                        ANR        .046  RIGHT OVERBANK N-VALUE
                      RLNTH      21270.  REACH LENGTH
                        SEL       .0118  ENERGY SLOPE
```

ELMAX .0 MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

CROSS-SECTION DATA

		--- LEFT OVERBANK ---			+ ------ MAIN CHANNEL -------			+ --- RIGHT OVERBANK ---	
RY	ELEVATION	26.00	25.00	23.00	10.00	10.00	16.00	20.00	23.00
177 RX	DISTANCE	.00	60.00	125.00	140.00	172.00	232.00	292.00	352.00

***

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	15.09	34.04	56.85	83.53	114.07	148.47	186.73	229.52	277.89
OUTFLOW	.00	82.02	276.72	579.60	997.30	1538.54	2212.53	3028.56	4152.92	5482.58
ELEVATION	10.00	10.84	11.68	12.53	13.37	14.21	15.05	15.89	16.74	17.58
STORAGE	331.85	391.40	456.56	528.39	607.54	694.01	788.43	893.73	1010.45	1144.80
OUTFLOW	7017.66	8775.94	10769.69	13000.94	15522.85	18356.00	21755.34	25732.62	30154.06	35076.12
ELEVATION	18.42	19.26	20.11	20.95	21.79	22.63	23.47	24.32	25.16	26.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 4153. TO 35076.
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.)

*** ***

****
* *
179 KK * C3 *
* *
****

BASIN C3
THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
L= 4.0 Lca= 2.2 S= 63.0 Kn= .050 LAG= 75.0
PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN

184 KO OUTPUT CONTROL VARIABLES

IPRNT	4	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

SUBBASIN RUNOFF DATA

185 BA SUBBASIN CHARACTERISTICS

TAREA	3.74	SUBBASIN AREA

LG GREEN AND AMPT LOSS RATE

STRTL	.17	STARTING LOSS
DTH	.35	MOISTURE DEFICIT
PSIF	3.92	WETTING FRONT SUCTION
XKSAT	.35	HYDRAULIC CONDUCTIVITY

```
                RTIMP        .00  PERCENT IMPERVIOUS AREA

185 UI      INPUT UNITGRAPH,  44 ORDINATES,  VOLUME = 1.00
              168.0     168.0     168.0     379.0     598.0     722.0     826.0     921.0    1002.0    1104.0
             1237.0    1362.0    1642.0    2029.0    2172.0    1833.0    1609.0    1447.0    1330.0    1190.0
             1062.0     963.0     850.0     775.0     619.0     483.0     305.0     297.0     276.0     276.0
              178.0     168.0     168.0     115.0      52.0      52.0      52.0      52.0      52.0      52.0
               52.0      52.0      52.0      52.0

                                                  ***

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


          **************
          *            *
193 KK    *        2C  *
          *            *
          **************
                         Combining C1+C2  &  C3

195 KO      OUTPUT CONTROL VARIABLES
                IPRNT          4  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


196 HC      HYDROGRAPH COMBINATION
                ICOMP          2  NUMBER OF HYDROGRAPHS TO COMBINE

                                                  ***

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


          **************
          *            *
197 KK    *        D1  *
          *            *
          **************
                       BASIN D1
                        THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
                        L=      1.9  Lca=       .9   S=   65.0  Kn= .045  LAG=  36.0
                        PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN

  KO        OUTPUT CONTROL VARIABLES
                IPRNT          4  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


              SUBBASIN RUNOFF DATA

 203 BA         SUBBASIN CHARACTERISTICS
                   TAREA        2.01  SUBBASIN AREA

 204 LG         GREEN AND AMPT LOSS RATE
                   STRTL         .17  STARTING LOSS
                     DTH         .35  MOISTURE DEFICIT
                    PSIF        3.50  WETTING FRONT SUCTION
                   XKSAT         .28  HYDRAULIC CONDUCTIVITY
                   RTIMP         .00  PERCENT IMPERVIOUS AREA

 203 UI         INPUT UNITGRAPH,  21 ORDINATES,  VOLUME = 1.00
                    188.0     335.0     765.0    1005.0    1223.0    1546.0    2251.0    2031.0    1593.0    1289.0
                   1026.0     784.0     436.0     319.0     241.0     188.0      71.0      58.0      58.0      58.0
                     58.0

                                                                    ***



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


            **************
            *            *
 209 KK     *       G1   *
            *            *
            **************
                          BASIN G1
                           THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
                           L=      2.3  Lca=      .8   S=   39.0  Kn= .045  LAG=  40.0
                           PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN

 214 KO         OUTPUT CONTROL VARIABLES
                   IPRNT           4  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


              SUBBASIN RUNOFF DATA

 215 BA         SUBBASIN CHARACTERISTICS
                   TAREA        1.62  SUBBASIN AREA

 216 LG         GREEN AND AMPT LOSS RATE
                   STRTL         .16  STARTING LOSS
                     DTH         .35  MOISTURE DEFICIT
                    PSIF        3.71  WETTING FRONT SUCTION
                   XKSAT         .29  HYDRAULIC CONDUCTIVITY
```

```
                    RTIMP         .00  PERCENT IMPERVIOUS AREA

215 UI          INPUT UNITGRAPH,  23 ORDINATES,  VOLUME = 1.00
                   136.0     186.0     505.0     677.0     810.0     980.0    1261.0    1713.0    1404.0    1145.0
                   947.0     772.0     617.0     407.0     240.0     224.0     140.0     126.0      42.0      42.0
                    42.0      42.0      42.0

                                                    ***

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


          **************
          *            *
221 KK    *     RIVER  *        FLOW DIRECTLY INTO THE HASSAYAMPA RIVER
          *            *
          **************
                        Combining A1+A2+A3 & B1+B2+B3 & C1+C2+C3 & D1 & G1

223 KO          OUTPUT CONTROL VARIABLES
                     IPRNT           4  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

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

224 HC          HYDROGRAPH COMBINATION
                     ICOMP           5  NUMBER OF HYDROGRAPHS TO COMBINE

                                                    ***

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


          **************
          *            *
226 KK    *        E1  *
          *            *
          **************
                       BASIN E1
                        THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
                        L=      1.8  Lca=       .9   S=  244.0  Kn= .055  LAG=  34.0
                        PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN

231 KO          OUTPUT CONTROL VARIABLES
                     IPRNT           4  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


          SUBBASIN RUNOFF DATA

232 BA          SUBBASIN CHARACTERISTICS
                TAREA        1.11  SUBBASIN AREA

233 LG          GREEN AND AMPT LOSS RATE
                STRTL         .22  STARTING LOSS
                  DTH         .37  MOISTURE DEFICIT
                 PSIF        4.74  WETTING FRONT SUCTION
                XKSAT         .21  HYDRAULIC CONDUCTIVITY
                RTIMP        1.00  PERCENT IMPERVIOUS AREA

232 UI          INPUT UNITGRAPH,  31 ORDINATES,  VOLUME = 1.00
                  110.0     200.0     469.0     705.0     864.0    1211.0     884.0     665.0     577.0     498.0
                  421.0     338.0     276.0     245.0     201.0     155.0     132.0     120.0      85.0      84.0
                   56.0      54.0      54.0      29.0      21.0      21.0      21.0      21.0      21.0      21.0
                   21.0

                                                    ***

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


          **************
          *            *
239 KK    *     E1-1E  *       Routing thru E2
          *            *
          **************

240 KO          OUTPUT CONTROL VARIABLES
                IPRNT           4  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


          HYDROGRAPH ROUTING DATA

241 RS          STORAGE ROUTING
                NSTPS           6  NUMBER OF SUBREACHES
                 ITYP        FLOW  TYPE OF INITIAL CONDITION
               RSVRIC         .00  INITIAL CONDITION
                    X         .00 WORKING R AND D COEFFICIENT

  RC            NORMAL DEPTH CHANNEL
                  ANL        .050  LEFT OVERBANK N-VALUE
                 ANCH        .047  MAIN CHANNEL N-VALUE
                  ANR        .046  RIGHT OVERBANK N-VALUE
                RLNTH       11890.  REACH LENGTH
                  SEL       .0214  ENERGY SLOPE
```

ELMAX .0 MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

CROSS-SECTION DATA

--- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---

RY	ELEVATION	24.00	21.00	17.00	10.00	10.00	14.00	18.00	22.00
243 RX	DISTANCE	.00	65.00	140.00	170.00	185.00	200.00	270.00	340.00

***

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	3.61	8.42	14.41	21.59	29.97	39.87	52.81	68.98	88.38
OUTFLOW	.00	45.02	155.59	333.18	584.50	916.96	1364.34	1952.03	2697.59	3629.64
ELEVATION	10.00	10.74	11.47	12.21	12.95	13.68	14.42	15.16	15.89	16.63
STORAGE	111.27	139.27	172.64	211.39	255.50	304.99	360.10	420.35	483.91	550.69
OUTFLOW	4840.92	6384.00	8246.36	10470.48	13094.77	16153.59	19668.64	23988.33	28952.26	34449.82
ELEVATION	17.37	18.11	18.84	19.58	20.32	21.05	21.79	22.53	23.26	24.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 3630. TO 34450.
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.)

*** ***

```
**************
*            *
*        E2  *
*            *
**************
```

245 KK

BASIN E2
THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
L= 2.3 Lca= .8 S= 113.0 Kn= .060 LAG= 44.0
PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN

250 KO OUTPUT CONTROL VARIABLES

IPRNT	4	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

SUBBASIN RUNOFF DATA

251 BA SUBBASIN CHARACTERISTICS

TAREA	1.86	SUBBASIN AREA

252 LG GREEN AND AMPT LOSS RATE

STRTL	.18	STARTING LOSS
DTH	.37	MOISTURE DEFICIT
PSIF	4.43	WETTING FRONT SUCTION
XKSAT	.22	HYDRAULIC CONDUCTIVITY

```
                    RTIMP         .00  PERCENT IMPERVIOUS AREA

251 UI          INPUT UNITGRAPH,  26 ORDINATES,  VOLUME = 1.00
                   142.0     142.0     488.0     653.0     792.0     924.0    1110.0    1484.0    1792.0    1418.0
                  1185.0     997.0     829.0     689.0     492.0     295.0     241.0     202.0     142.0     110.0
                    44.0      44.0      44.0      44.0      44.0      44.0

                                                    ***

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


          **************
          *            *
257 KK    *        1E  *
          *            *
          **************
                          Combining E1 & E2

259 KO          OUTPUT CONTROL VARIABLES
                      IPRNT           4  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


260 HC          HYDROGRAPH COMBINATION
                      ICOMP           2  NUMBER OF HYDROGRAPHS TO COMBINE

                                                    ***

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


          **************
          *            *
261 KK    *    DIV-1E  *       DIVERSION AT PARKWAY
          *            *
          **************

    DT          DIVERSION
                      ISTAD        1E-D  DIVERSION HYDROGRAPH IDENTIFICATION

    DI             INFLOW     4035.00   4057.00   4094.00   4149.00   4228.00   4377.00

    DQ       DIVERTED FLOW         .00      6.00     27.00     67.00    132.00    267.00

                                                    ***

*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***
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         **************
         *            *
KK       *    1E-2E   *       Routing thru E3
         *            *
         **************

266 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          4  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


               HYDROGRAPH ROUTING DATA

267 RS          STORAGE ROUTING
                     NSTPS         12  NUMBER OF SUBREACHES
                      ITYP       FLOW  TYPE OF INITIAL CONDITION
                     RSVRIC       .00  INITIAL CONDITION
                         X        .00 WORKING R AND D COEFFICIENT

268 RC          NORMAL DEPTH CHANNEL
                       ANL       .052  LEFT OVERBANK N-VALUE
                      ANCH       .046  MAIN CHANNEL N-VALUE
                       ANR       .052  RIGHT OVERBANK N-VALUE
                     RLNTH      20000.  REACH LENGTH
                       SEL       .0100  ENERGY SLOPE
                     ELMAX          .0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                    CROSS-SECTION DATA
                          --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
270 RY        ELEVATION     20.00     17.00     14.00     10.00     10.00     15.00     18.00     20.00
269 RX        DISTANCE        .00     80.00    120.00    160.00    170.00    210.00    250.00    300.00

                                              ***

                                    COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

          STORAGE        .00      3.56      9.41     17.55     27.98     40.70     55.71     73.00     92.62    114.88
          OUTFLOW        .00     13.57     52.61    123.03    231.03    382.44    582.74    837.14   1167.85   1588.25
        ELEVATION      10.00     10.53     11.05     11.58     12.11     12.63     13.16     13.68     14.21     14.74

          STORAGE     139.94    168.30    200.05    235.20    274.15    318.11    367.64    423.71    486.35    555.56
          OUTFLOW    2107.69   2738.13   3460.23   4280.83   5191.45   6219.26   7366.25   8663.81  10127.95  11770.43
        ELEVATION      15.26     15.79     16.32     16.84     17.37     17.89     18.42     18.95     19.47     20.00

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


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         *            *
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271 KK     *        F1  *
           *            *
           ***************
                        BASIN F1
                         THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
                         L=      3.8  Lca=      1.5   S=  472.0  Kn= .050  LAG=  43.0
                         PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN

276 KO          OUTPUT CONTROL VARIABLES
                      IPRNT           4  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


                SUBBASIN RUNOFF DATA

277 BA          SUBBASIN CHARACTERISTICS
                      TAREA        2.84  SUBBASIN AREA

278 LG          GREEN AND AMPT LOSS RATE
                      STRTL         .28  STARTING LOSS
                        DTH         .35  MOISTURE DEFICIT
                       PSIF        3.98  WETTING FRONT SUCTION
                      XKSAT         .34  HYDRAULIC CONDUCTIVITY
                      RTIMP       13.00  PERCENT IMPERVIOUS AREA

277 UI          INPUT UNITGRAPH,  39 ORDINATES,  VOLUME = 1.00
                   222.0     231.0     710.0    1093.0    1443.0    1694.0    2119.0    2472.0    1593.0    1339.0
                  1203.0    1070.0     943.0     827.0     694.0     571.0     525.0     478.0     388.0     319.0
                   283.0     243.0     228.0     170.0     170.0     131.0     109.0     109.0     109.0      70.0
                    43.0      43.0      43.0      43.0      43.0      43.0      43.0      43.0      43.0

                                                    ***

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


           ***************
           *             *
285 KK     *     F1-1F   *       Routing thru F2
           *             *
           ***************

286 KO          OUTPUT CONTROL VARIABLES
                      IPRNT           4  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
```

HYDROGRAPH ROUTING DATA

RS STORAGE ROUTING

NSTPS	6	NUMBER OF SUBREACHES
ITYP	FLOW	TYPE OF INITIAL CONDITION
RSVRIC	.00	INITIAL CONDITION
X	.00	WORKING R AND D COEFFICIENT

RC NORMAL DEPTH CHANNEL

ANL	.053	LEFT OVERBANK N-VALUE
ANCH	.045	MAIN CHANNEL N-VALUE
ANR	.055	RIGHT OVERBANK N-VALUE
RLNTH	18320.	REACH LENGTH
SEL	.0333	ENERGY SLOPE
ELMAX	.0	MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

CROSS-SECTION DATA

		--- LEFT OVERBANK ---	+ ------ MAIN CHANNEL -------	+ --- RIGHT OVERBANK ---				
RY	ELEVATION	27.00	26.00	25.00	10.00	10.00	24.00	26.00	28.00
RX	DISTANCE	.00	60.00	120.00	146.00	178.00	208.00	268.00	328.00

***

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	13.48	28.43	44.83	62.70	82.04	102.84	125.10	148.82	174.01
OUTFLOW	.00	178.81	576.73	1154.73	1903.36	2820.84	3908.75	5170.41	6610.12	8232.77
ELEVATION	10.00	10.95	11.89	12.84	13.79	14.74	15.68	16.63	17.58	18.53
STORAGE	200.66	228.77	258.34	289.38	321.88	356.11	399.44	469.10	572.70	697.73
OUTFLOW	10043.60	12048.06	14251.73	16660.27	19279.37	22191.75	25710.54	30056.43	35348.15	41988.24
ELEVATION	19.47	20.42	21.37	22.32	23.26	24.21	25.16	26.11	27.05	28.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 2821. TO 41988.
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.)

*** ***

```
**************
*            *
KK      *  F2  *
*            *
**************
```

BASIN F2
THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
L= 3.5 Lca= 1.5 S= 176.0 Kn= .050 LAG= 50.0
PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN

KO OUTPUT CONTROL VARIABLES

IPRNT	4	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


          SUBBASIN RUNOFF DATA

297 BA      SUBBASIN CHARACTERISTICS
                TAREA       2.88  SUBBASIN AREA

298 LG      GREEN AND AMPT LOSS RATE
                STRTL        .20  STARTING LOSS
                  DTH        .35  MOISTURE DEFICIT
                 PSIF       4.03  WETTING FRONT SUCTION
                XKSAT        .35  HYDRAULIC CONDUCTIVITY
                RTIMP       2.00  PERCENT IMPERVIOUS AREA

297 UI      INPUT UNITGRAPH,  46 ORDINATES,  VOLUME = 1.00
              194.0     194.0     449.0     770.0    1096.0    1314.0    1498.0    1817.0    2283.0    1541.0
             1245.0    1124.0    1016.0     925.0     825.0     745.0     638.0     539.0     481.0     449.0
              410.0     336.0     290.0     248.0     227.0     212.0     181.0     149.0     149.0     122.0
               95.0      95.0      95.0      95.0      49.0      37.0      37.0      37.0      37.0      37.0
               37.0      37.0      37.0      37.0      37.0      37.0

                                                    ***

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


          **************
          *            *
305 KK    *        1F  *
          *            *
          **************
                         Combining F1 & F2

307 KO      OUTPUT CONTROL VARIABLES
                IPRNT          4  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


308 HC      HYDROGRAPH COMBINATION
                ICOMP          2  NUMBER OF HYDROGRAPHS TO COMBINE

                                                    ***

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


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         *              *
309 KK   *     1F-2F    *       Routing thru F3
         *              *
         ****************

310 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          4  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


              HYDROGRAPH ROUTING DATA

311 RS          STORAGE ROUTING
                     NSTPS          4  NUMBER OF SUBREACHES
                      ITYP       FLOW  TYPE OF INITIAL CONDITION
                    RSVRIC        .00  INITIAL CONDITION
                         X        .00 WORKING R AND D COEFFICIENT

312 RC          NORMAL DEPTH CHANNEL
                       ANL       .050  LEFT OVERBANK N-VALUE
                      ANCH       .047  MAIN CHANNEL N-VALUE
                       ANR       .048  RIGHT OVERBANK N-VALUE
                     RLNTH      6680.  REACH LENGTH
                       SEL      .0126  ENERGY SLOPE
                     ELMAX         .0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                              CROSS-SECTION DATA
                              --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
314 RY        ELEVATION     16.00      15.00     13.00     10.00     10.00     12.00     14.00     16.00
313 RX        DISTANCE        .00      70.00    145.00    175.00    192.00    219.00    289.00    359.00

                                                                 ***

                                                COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

              STORAGE        .00       1.00      2.37      4.09      6.17      8.61     11.41     14.64     18.54     23.13
              OUTFLOW        .00       9.65     33.78     73.07    129.27    204.18    299.63    427.60    587.96    780.82
            ELEVATION      10.00      10.32     10.63     10.95     11.26     11.58     11.89     12.21     12.53     12.84

              STORAGE      28.46      34.85     42.35     50.95     60.67     71.49     83.43     96.80    111.77    128.36
              OUTFLOW    1022.89    1322.87   1676.83   2091.34   2572.33   3125.32   3751.87   4448.89   5244.99   6146.93
            ELEVATION      13.16      13.47     13.79     14.11     14.42     14.74     15.05     15.37     15.68     16.00



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


         ****************
         *              *
315 KK   *        F3    *
         *              *
         ****************
```

```
                    BASIN F3
                     THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
                     L=      1.3  Lca=       .6   S=   66.0  Kn= .060  LAG=  36.0
                     PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN

320 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          4  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


            SUBBASIN RUNOFF DATA

321 BA          SUBBASIN CHARACTERISTICS
                      TAREA        .37  SUBBASIN AREA

322 LG          GREEN AND AMPT LOSS RATE
                      STRTL        .17  STARTING LOSS
                        DTH        .35  MOISTURE DEFICIT
                       PSIF       3.30  WETTING FRONT SUCTION
                      XKSAT        .82  HYDRAULIC CONDUCTIVITY
                      RTIMP        .00  PERCENT IMPERVIOUS AREA

321 UI          INPUT UNITGRAPH,  21 ORDINATES,  VOLUME = 1.01
                    35.0     62.0    142.0    187.0    227.0    287.0    418.0    377.0    296.0    240.0
                   191.0    146.0     81.0     59.0     45.0     35.0     13.0     11.0     11.0     11.0
                    11.0

                                                        ***

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


          **************
          *            *
327 KK    *    RTV-2F  *       Retrieve diversion
          *            *
          **************

328 DR          RETRIEVE DIVERSION HYDROGRAPH
                      ISTAD       1E-D  DIVERSION HYDROGRAPH IDENTIFICATION

                                                        ***

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


          **************
          *            *
329 KK    *         2F *
          *            *
```

```
          **************
                         Combining F1+F2 & F3 & 1E-D

331 KO          OUTPUT CONTROL VARIABLES
                      IPRNT           4  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


332 HC          HYDROGRAPH COMBINATION
                      ICOMP           3  NUMBER OF HYDROGRAPHS TO COMBINE

                                                                    ***

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


          **************
          *            *
333 KK    *    DIV-2F  *       Divert 2F-D
          *            *
          **************

    DT          DIVERSION
                      ISTAD        2F-D  DIVERSION HYDROGRAPH IDENTIFICATION

    DI             INFLOW     2559.00   2641.00   2737.00   2851.00   2990.00   3190.00

    DQ       DIVERTED FLOW         .00      7.00     31.00     77.00    150.00    288.00

                                                                    ***

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


          **************
          *            *
337 KK    *     2F-2E  *       Routing thru F4
          *            *
          **************

338 KO          OUTPUT CONTROL VARIABLES
                      IPRNT           4  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
```

HYDROGRAPH ROUTING DATA

??? RS STORAGE ROUTING

NSTPS	11	NUMBER OF SUBREACHES
ITYP	FLOW	TYPE OF INITIAL CONDITION
RSVRIC	.00	INITIAL CONDITION
X	.00	WORKING R AND D COEFFICIENT

340 RC NORMAL DEPTH CHANNEL

ANL	.050	LEFT OVERBANK N-VALUE
ANCH	.044	MAIN CHANNEL N-VALUE
ANR	.050	RIGHT OVERBANK N-VALUE
RLNTH	14310.	REACH LENGTH
SEL	.0137	ENERGY SLOPE
ELMAX	.0	MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

CROSS-SECTION DATA

		--- LEFT OVERBANK ---	+	------ MAIN CHANNEL -------	+	--- RIGHT OVERBANK ---		
342 RY	ELEVATION	15.00	14.00	13.00	10.00	10.00	35.00	37.00	39.00
341 RX	DISTANCE	.00	70.00	150.00	190.00	205.00	235.00	310.00	390.00

***

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	13.08	37.32	99.36	203.33	310.25	418.09	526.85	636.53	747.13
OUTFLOW	.00	163.43	688.83	2087.60	5130.94	9657.54	15385.18	22197.48	30017.08	38787.62
ELEVATION	10.00	11.53	13.05	14.58	16.11	17.63	19.16	20.68	22.21	23.74
STORAGE	858.64	971.07	1084.43	1198.69	1313.88	1429.99	1547.01	1670.31	1820.40	2000.64
OUTFLOW	48465.80	59017.06	70413.14	82630.51	95649.26	109452.30	124024.90	139878.20	157189.70	176050.80
ELEVATION	25.26	26.79	28.32	29.84	31.37	32.89	34.42	35.95	37.47	39.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 2088. TO 176051.
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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**************
*            *
343 KK      *       E3   *
*            *
**************
```

BASIN E3
THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
L= 3.5 Lca= 2.0 S= 57.0 Kn= .050 LAG= 69.0
PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN

? KO OUTPUT CONTROL VARIABLES

IPRNT	4	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


          SUBBASIN RUNOFF DATA

349 BA          SUBBASIN CHARACTERISTICS
                TAREA       2.52  SUBBASIN AREA

350 LG          GREEN AND AMPT LOSS RATE
                STRTL        .17  STARTING LOSS
                  DTH        .35  MOISTURE DEFICIT
                 PSIF       3.87  WETTING FRONT SUCTION
                XKSAT        .32  HYDRAULIC CONDUCTIVITY
                RTIMP        .00  PERCENT IMPERVIOUS AREA

349 UI          INPUT UNITGRAPH,  41 ORDINATES,  VOLUME = 1.00
                  123.0     123.0     123.0     354.0     464.0     577.0     642.0     707.0     784.0     889.0
                  986.0    1196.0    1510.0    1542.0    1291.0    1129.0    1016.0     923.0     809.0     725.0
                  634.0     577.0     455.0     347.0     217.0     213.0     202.0     177.0     123.0     123.0
                  111.0      38.0      38.0      38.0      38.0      38.0      38.0      38.0      38.0      38.0
                   38.0

                                                  ***

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


          **************
          *            *
357 KK    *        F4  *
          *            *
          **************
                     BASIN F4
                      THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
                      L=      2.7  Lca=       .9   S=   72.0  Kn= .050  LAG=  45.0
                      PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN

362 KO          OUTPUT CONTROL VARIABLES
                IPRNT          4  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


          SUBBASIN RUNOFF DATA

   BA           SUBBASIN CHARACTERISTICS
                TAREA       2.25  SUBBASIN AREA

364 LG          GREEN AND AMPT LOSS RATE
                STRTL        .17  STARTING LOSS
                  DTH        .35  MOISTURE DEFICIT
```

```
                PSIF        4.23  WETTING FRONT SUCTION
                XKSAT         .44  HYDRAULIC CONDUCTIVITY
                RTIMP         .00  PERCENT IMPERVIOUS AREA

UI          INPUT UNITGRAPH,  26 ORDINATES,  VOLUME = 1.00
              169.0     169.0     555.0     760.0     921.0    1072.0    1277.0    1687.0    2115.0    1760.0
             1455.0    1242.0    1033.0     857.0     678.0     415.0     294.0     277.0     174.0     169.0
               66.0      52.0      52.0      52.0      52.0      52.0

                                                      ***

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


          **************
          *            *
369 KK    *        2E  *
          *            *
          **************
                         Combining E1+E2 & E3 & F1+F2+F3+F4

371 KO          OUTPUT CONTROL VARIABLES
                     IPRNT           4  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


372 HC          HYDROGRAPH COMBINATION
                     ICOMP           4  NUMBER OF HYDROGRAPHS TO COMBINE

                                                      ***

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


          **************
          *            *
373 KK    *     2E-3E  *       Routing thru E4
          *            *
          **************

374 KO          OUTPUT CONTROL VARIABLES
                     IPRNT           4  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
```

HYDROGRAPH ROUTING DATA

375 RS STORAGE ROUTING

NSTPS	9	NUMBER OF SUBREACHES
ITYP	FLOW	TYPE OF INITIAL CONDITION
RSVRIC	.00	INITIAL CONDITION
X	.00	WORKING R AND D COEFFICIENT

376 RC NORMAL DEPTH CHANNEL

ANL	.056	LEFT OVERBANK N-VALUE
ANCH	.049	MAIN CHANNEL N-VALUE
ANR	.056	RIGHT OVERBANK N-VALUE
RLNTH	11000.	REACH LENGTH
SEL	.0060	ENERGY SLOPE
ELMAX	.0	MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

CROSS-SECTION DATA

		--- LEFT OVERBANK ---	+	------ MAIN CHANNEL -------	+	--- RIGHT OVERBANK ---		
378 RY	ELEVATION	21.00	18.00	14.00	10.00	10.00	14.00	18.00	21.00
377 RX	DISTANCE	.00	60.00	180.00	225.00	237.00	272.00	422.00	472.00

***

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	2.60	6.89	12.88	20.56	29.93	41.00	53.77	70.60	93.14
OUTFLOW	.00	13.94	54.21	127.04	238.92	395.93	603.79	874.39	1281.56	1792.48
ELEVATION	10.00	10.58	11.16	11.74	12.32	12.89	13.47	14.05	14.63	15.21
STORAGE	121.39	155.36	195.04	240.43	291.49	346.53	404.68	465.92	530.27	597.73
OUTFLOW	2430.41	3214.85	4163.43	5292.49	6631.46	8234.52	10037.53	12043.17	14254.87	16676.58
ELEVATION	15.79	16.37	16.95	17.53	18.11	18.68	19.26	19.84	20.42	21.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 10038. TO 16677.
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.)

*** ***

```
**************
*            *
*        H1  *
*            *
**************
```

379 KK

BASIN H1
THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
L= 2.2 Lca= 1.0 S= 70.0 Kn= .060 LAG= 52.0
PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN

380 KO OUTPUT CONTROL VARIABLES

IPRNT	4	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


          SUBBASIN RUNOFF DATA

385 BA       SUBBASIN CHARACTERISTICS
                TAREA        1.06  SUBBASIN AREA

386 LG       GREEN AND AMPT LOSS RATE
                STRTL         .17  STARTING LOSS
                  DTH         .35  MOISTURE DEFICIT
                 PSIF        3.07  WETTING FRONT SUCTION
                XKSAT         .93  HYDRAULIC CONDUCTIVITY
                RTIMP         .00  PERCENT IMPERVIOUS AREA

385 UI       INPUT UNITGRAPH,  31 ORDINATES,  VOLUME = 1.00
              69.0     69.0    164.0    272.0    339.0    389.0    447.0    520.0    641.0    857.0
             796.0    652.0    566.0    489.0    417.0    354.0    296.0    212.0    126.0    116.0
             107.0     69.0     69.0     33.0     21.0     21.0     21.0     21.0     21.0     21.0
              21.0

                                                  ***

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


          **************
          *            *
392 KK    *    RTV-1H  *       Retrieve Divert 2F-D
          *            *
          **************

393 DR       RETRIEVE DIVERSION HYDROGRAPH
                ISTAD       2F-D  DIVERSION HYDROGRAPH IDENTIFICATION

                                                  ***

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


          **************
          *            *
394 KK    *        1H  *
          *            *
          **************
                        Combining H1 & 2F-D

396 KO       OUTPUT CONTROL VARIABLES
                IPRNT           4  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


    HC          HYDROGRAPH COMBINATION
                    ICOMP           2  NUMBER OF HYDROGRAPHS TO COMBINE

                                                                  ***


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


          **************
          *            *
398 KK    *    DIV-1H  *       Divert 1H-D
          *            *
          **************

    DT          DIVERSION
                    ISTAD        1H-D  DIVERSION HYDROGRAPH IDENTIFICATION

    DI             INFLOW     2183.00   2284.00   2413.00   2590.00   2823.00   3198.00   3307.00   3478.00

    DQ       DIVERTED FLOW         .00     17.00     76.00    192.00    369.00    693.00    783.00    926.00

                                                                  ***


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


          **************
          *            *
402 KK    *     1H-3E  *       Routing thru H2
          *            *
          **************

403 KO          OUTPUT CONTROL VARIABLES
                    IPRNT           4  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


               HYDROGRAPH ROUTING DATA

404 RS          STORAGE ROUTING
                    NSTPS          50  NUMBER OF SUBREACHES
                     ITYP        FLOW  TYPE OF INITIAL CONDITION
                   RSVRIC         .00  INITIAL CONDITION
                        X         .00 WORKING R AND D COEFFICIENT

405 RC          NORMAL DEPTH CHANNEL
```

	ANL	.053	LEFT OVERBANK N-VALUE
	ANCH	.050	MAIN CHANNEL N-VALUE
	ANR	.053	RIGHT OVERBANK N-VALUE
	RLNTH	19810.	REACH LENGTH
	SEL	.0100	ENERGY SLOPE
	ELMAX	.0	MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

CROSS-SECTION DATA

		--- LEFT OVERBANK ---	+ ------ MAIN CHANNEL -------	+ --- RIGHT OVERBANK ---					
407 RY	ELEVATION	15.00	14.00	12.00	10.00	10.00	12.00	14.00	15.00
406 RX	DISTANCE	.00	110.00	210.00	245.00	275.00	310.00	410.00	520.00

***

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	4.14	9.39	15.73	23.18	31.73	41.38	52.14	64.16	78.96
OUTFLOW	.00	10.27	34.89	73.47	126.98	196.62	283.63	389.28	526.39	706.63
ELEVATION	10.00	10.26	10.53	10.79	11.05	11.32	11.58	11.84	12.11	12.37
STORAGE	96.91	118.01	142.27	169.67	200.21	233.91	271.97	316.88	368.72	427.49
OUTFLOW	920.15	1172.16	1467.17	1809.29	2202.36	2650.04	3117.07	3659.50	4294.50	5028.89
ELEVATION	12.63	12.89	13.16	13.42	13.68	13.95	14.21	14.47	14.74	15.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 35. TO 5029.
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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          **************
          *            *
408 KK    *        E4  *
          *            *
          **************
```

BASIN E4
THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
L= 2.8 Lca= 1.4 S= 28.0 Kn= .050 LAG= 64.0
PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN

413 KO OUTPUT CONTROL VARIABLES

IPRNT	4	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

SUBBASIN RUNOFF DATA

414 BA SUBBASIN CHARACTERISTICS

TAREA	.79	SUBBASIN AREA

```
415 LG          GREEN AND AMPT LOSS RATE
                     STRTL         .17  STARTING LOSS
                       DTH         .34  MOISTURE DEFICIT
                      PSIF        4.28  WETTING FRONT SUCTION
                     XKSAT         .42  HYDRAULIC CONDUCTIVITY
                     RTIMP         .00  PERCENT IMPERVIOUS AREA

414 UI          INPUT UNITGRAPH,  38 ORDINATES,  VOLUME =  .99
                    41.0      41.0      47.0     139.0     171.0     202.0     228.0     253.0     286.0     322.0
                   388.0     495.0     521.0     431.0     374.0     336.0     298.0     261.0     231.0     202.0
                   172.0     127.0      83.0      72.0      68.0      59.0      41.0      41.0      30.0      13.0
                    13.0      13.0      13.0      13.0      13.0      13.0      13.0      13.0

                                                  ***

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


          **************
          *            *
421 KK    *        H2  *
          *            *
          **************
                       BASIN H2
                        THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
                        L=      3.8  Lca=      2.2   S=   53.0  Kn= .050  LAG=  75.0
                        PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN

   KO           OUTPUT CONTROL VARIABLES
                     IPRNT           4  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


               SUBBASIN RUNOFF DATA

427 BA          SUBBASIN CHARACTERISTICS
                     TAREA        1.42  SUBBASIN AREA

428 LG          GREEN AND AMPT LOSS RATE
                     STRTL         .17  STARTING LOSS
                       DTH         .35  MOISTURE DEFICIT
                      PSIF        3.64  WETTING FRONT SUCTION
                     XKSAT         .69  HYDRAULIC CONDUCTIVITY
                     RTIMP         .00  PERCENT IMPERVIOUS AREA

427 UI          INPUT UNITGRAPH,  44 ORDINATES,  VOLUME = 1.00
                    64.0      64.0      64.0     144.0     227.0     274.0     314.0     350.0     381.0     420.0
                   470.0     518.0     624.0     771.0     825.0     696.0     611.0     550.0     506.0     452.0
                   403.0     366.0     323.0     294.0     235.0     184.0     116.0     113.0     105.0     105.0
                    68.0      64.0      64.0      44.0      20.0      20.0      20.0      20.0      20.0      20.0
                    20.0      20.0      20.0      20.0
```

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                                                                  ***
          WARNING EXCESS AT PONDING LESS THAN ZERO FOR PERIOD. EXCESS SET TO ZERO



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


             ***************
             *             *
 435 KK      *        3E   *
             *             *
             ***************
                                Combining E1+E2+E3+F1+F2+F3+F4 & E4 & H1 & H2

 437 KO           OUTPUT CONTROL VARIABLES
                        IPRNT           4  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


 438 HC           HYDROGRAPH COMBINATION
                        ICOMP           4  NUMBER OF HYDROGRAPHS TO COMBINE

                                                                  ***



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


             ***************
             *             *
 439 KK      *     3E-4E   *        Routing thru E5
             *             *
             ***************

 440 KO           OUTPUT CONTROL VARIABLES
                        IPRNT           4  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


                HYDROGRAPH ROUTING DATA

     RS           STORAGE ROUTING
                        NSTPS          12  NUMBER OF SUBREACHES
                         ITYP        FLOW  TYPE OF INITIAL CONDITION
                       RSVRIC         .00  INITIAL CONDITION
                            X         .00 WORKING R AND D COEFFICIENT
```

```
442 RC          NORMAL DEPTH CHANNEL
                      ANL        .060  LEFT OVERBANK N-VALUE
                     ANCH        .050  MAIN CHANNEL N-VALUE
                      ANR        .060  RIGHT OVERBANK N-VALUE
                    RLNTH      15000.  REACH LENGTH
                      SEL       .0045  ENERGY SLOPE
                    ELMAX          .0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                    CROSS-SECTION DATA
                          --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
444 RY        ELEVATION     21.00     17.00     15.00     10.00     10.00     14.00     16.00     20.00
443 RX        DISTANCE        .00     10.00     80.00     90.00    110.00    120.00    190.00    200.00

                                              ***

                                    COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

          STORAGE        .00      4.25      9.01     14.30     20.10     26.43     33.27     40.65     50.75     65.37
          OUTFLOW        .00     16.34     52.96    106.53    176.42    262.64    365.50    486.58    641.71    839.65
        ELEVATION      10.00     10.58     11.16     11.74     12.32     12.89     13.47     14.05     14.63     15.21

          STORAGE      87.30    116.55    150.38    186.98    224.18    261.95    300.30    339.23    378.66    418.39
          OUTFLOW    1105.14   1463.64   1918.71   2483.98   3136.72   3869.47   4678.33   5560.41   6529.87   7576.00
        ELEVATION      15.79     16.37     16.95     17.53     18.11     18.68     19.26     19.84     20.42     21.00


*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN     5560. TO     7576.
                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.)


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


             **************
             *            *
445 KK       *        J1  *
             *            *
             **************
                          BASIN J1
                           THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
                           L=      3.3  Lca=      1.4   S=   88.0  Kn= .060  LAG=  66.0
                           PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN

450 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          4  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


               SUBBASIN RUNOFF DATA

451 BA          SUBBASIN CHARACTERISTICS
```

```
                    TAREA        1.77  SUBBASIN AREA

452 LG          GREEN AND AMPT LOSS RATE
                    STRTL         .17  STARTING LOSS
                      DTH         .35  MOISTURE DEFICIT
                     PSIF        3.71  WETTING FRONT SUCTION
                    XKSAT         .65  HYDRAULIC CONDUCTIVITY
                    RTIMP         .00  PERCENT IMPERVIOUS AREA

451 UI          INPUT UNITGRAPH,  39 ORDINATES,  VOLUME = 1.00
                    91.0      91.0      91.0     292.0     364.0     432.0     492.0     540.0     605.0     686.0
                   791.0     999.0    1180.0    1014.0     869.0     772.0     699.0     612.0     545.0     477.0
                   427.0     340.0     252.0     160.0     156.0     149.0     118.0      91.0      91.0      60.0
                    28.0      28.0      28.0      28.0      28.0      28.0      28.0      28.0      28.0

                                                    ***

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


                ***************
                *             *
459 KK          *    RTV-1J   *       Retrieve Divert 1H-D
                *             *
                ***************

460 DR          RETRIEVE DIVERSION HYDROGRAPH
                    ISTAD        1H-D  DIVERSION HYDROGRAPH IDENTIFICATION

                                                    ***

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


                ***************
                *             *
461 KK          *         1J  *
                *             *
                ***************
                              Combining J1 & 1H-D

463 KO          OUTPUT CONTROL VARIABLES
                    IPRNT           4  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


464 HC          HYDROGRAPH COMBINATION
                    ICOMP           2  NUMBER OF HYDROGRAPHS TO COMBINE

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


          ***************
          *             *
 465 KK   *   DIV-1J    *       Divert 1J-D
          *             *
          ***************

    DT          DIVERSION
                    ISTAD        1J-D  DIVERSION HYDROGRAPH IDENTIFICATION

    DI               INFLOW     1716.00   1882.00   2074.00   2317.00   3047.00   2915.00

    DQ      DIVERTED FLOW           .00     18.00     79.00    203.00    348.00    628.00

                                                                        ***



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


          ***************
          *             *
 469 KK   *    1J-4E    *       Routing thru J2
          *             *
          ***************

 470 KO         OUTPUT CONTROL VARIABLES
                     IPRNT           4  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


               HYDROGRAPH ROUTING DATA

 471 RS         STORAGE ROUTING
                     NSTPS          79  NUMBER OF SUBREACHES
                      ITYP        FLOW  TYPE OF INITIAL CONDITION
                    RSVRIC         .00  INITIAL CONDITION
                         X         .00 WORKING R AND D COEFFICIENT

 472 RC         NORMAL DEPTH CHANNEL
                       ANL        .052  LEFT OVERBANK N-VALUE
                      ANCH        .065  MAIN CHANNEL N-VALUE
                       ANR        .053  RIGHT OVERBANK N-VALUE
                     RLNTH      28445.  REACH LENGTH
                       SEL       .0086  ENERGY SLOPE
                     ELMAX          .0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                             CROSS-SECTION DATA
```

		--- LEFT OVERBANK ---			+ ------ MAIN CHANNEL -------			+ --- RIGHT OVERBANK ---	
474 RY	ELEVATION	13.00	12.00	11.00	10.00	10.00	11.00	12.00	13.00
473 RX	DISTANCE	.00	40.00	80.00	90.00	320.00	330.00	370.00	410.00

***

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	23.88	48.08	72.61	97.46	122.64	148.15	174.20	201.49	230.09
OUTFLOW	.00	22.57	71.84	141.53	229.15	333.20	452.63	589.76	744.21	915.41
ELEVATION	10.00	10.16	10.32	10.47	10.63	10.79	10.95	11.11	11.26	11.42
STORAGE	259.99	291.20	323.70	357.51	392.62	429.03	466.75	505.77	546.09	587.71
OUTFLOW	1103.93	1310.27	1534.92	1778.35	2041.02	2323.37	2625.86	2948.92	3293.00	3658.54
ELEVATION	11.58	11.74	11.89	12.05	12.21	12.37	12.53	12.68	12.84	13.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 229. TO 3659.
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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**************
*            *
475 KK      *        J2  *
*            *
**************
```

BASIN J2
THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
L= 5.4 Lca= 3.1 S= 45.0 Kn= .050 LAG= 102.0
PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN

480 KO OUTPUT CONTROL VARIABLES

IPRNT	4	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

SUBBASIN RUNOFF DATA

481 BA SUBBASIN CHARACTERISTICS

TAREA	3.66	SUBBASIN AREA

482 LG GREEN AND AMPT LOSS RATE

STRTL	.17	STARTING LOSS
DTH	.35	MOISTURE DEFICIT
PSIF	4.09	WETTING FRONT SUCTION
XKSAT	.51	HYDRAULIC CONDUCTIVITY
RTIMP	.00	PERCENT IMPERVIOUS AREA

481 UI INPUT UNITGRAPH, 60 ORDINATES, VOLUME = 1.00

```
     121.0     121.0     121.0     121.0     206.0     397.0     455.0     524.0     578.0     628.0
     671.0     718.0     769.0     829.0     908.0     965.0    1094.0    1304.0    1454.0    1602.0
    1407.0    1260.0    1149.0    1063.0     994.0     939.0     852.0     788.0     730.0     675.0
     615.0     575.0     515.0     438.0     347.0     269.0     214.0     214.0     199.0     198.0
     192.0     121.0     121.0     121.0     121.0      89.0      37.0      37.0      37.0      37.0
      37.0      37.0      37.0      37.0      37.0      37.0      37.0      37.0      37.0      37.0

                                                ***

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


          **************
          *            *
491 KK    *        K1  *
          *            *
          **************
                    BASIN K1
                     THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
                     L=      3.1  Lca=      1.8   S=  759.0  Kn= .050  LAG=  39.0
                     PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN

496 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          4  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


               SUBBASIN RUNOFF DATA

497 BA          SUBBASIN CHARACTERISTICS
                      TAREA       1.54  SUBBASIN AREA

498 LG          GREEN AND AMPT LOSS RATE
                      STRTL        .37  STARTING LOSS
                        DTH        .35  MOISTURE DEFICIT
                       PSIF       4.03  WETTING FRONT SUCTION
                      XKSAT        .36  HYDRAULIC CONDUCTIVITY
                      RTIMP      17.00  PERCENT IMPERVIOUS AREA

497 UI          INPUT UNITGRAPH,  36 ORDINATES,  VOLUME = 1.00
                  133.0     184.0     468.0     744.0     936.0    1126.0    1522.0    1032.0     816.0     722.0
                  637.0     551.0     473.0     382.0     328.0     297.0     251.0     200.0     170.0     146.0
                  131.0     102.0     102.0      65.0      65.0      65.0      52.0      25.0      25.0      25.0
                   25.0      25.0      25.0      25.0      25.0      25.0

                                                ***


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          ***************
          *             *
504 KK    *    K1-1K    *      Routing thru K2
          *             *
          ***************

505 KO         OUTPUT CONTROL VARIABLES
                     IPRNT          4  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


             HYDROGRAPH ROUTING DATA

506 RS         STORAGE ROUTING
                     NSTPS         21  NUMBER OF SUBREACHES
                      ITYP       FLOW  TYPE OF INITIAL CONDITION
                    RSVRIC        .00  INITIAL CONDITION
                         X        .00 WORKING R AND D COEFFICIENT

507 RC         NORMAL DEPTH CHANNEL
                       ANL       .048  LEFT OVERBANK N-VALUE
                      ANCH       .050  MAIN CHANNEL N-VALUE
                       ANR       .048  RIGHT OVERBANK N-VALUE
                     RLNTH     28440.  REACH LENGTH
                       SEL      .0276  ENERGY SLOPE
                     ELMAX         .0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                             CROSS-SECTION DATA
                              --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
509 RY       ELEVATION      22.00      21.00      20.00      10.00      10.00      20.00      21.00      22.00
508 RX       DISTANCE         .00      20.00      55.00      85.00     235.00     259.00     289.00     309.00

                                                                      ***

                                               COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

          STORAGE          .00      62.56     126.52     191.89     258.66     326.84     396.43     467.43     539.83     613.63
          OUTFLOW          .00     346.26    1102.62    2174.16    3523.39    5128.29    6974.10    9050.26   11348.88   13863.95
        ELEVATION        10.00      10.63      11.26      11.89      12.53      13.16      13.79      14.42      15.05      15.68

          STORAGE       688.85     765.47     843.49     922.92    1003.76    1086.01    1169.87    1265.28    1376.50    1498.71
          OUTFLOW     16590.80   19525.76   22665.94   26009.10   29553.49   33297.78   37312.67   41938.03   46929.69   52326.15
        ELEVATION        16.32      16.95      17.58      18.21      18.84      19.47      20.11      20.74      21.37      22.00


*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN     1103. TO     52326.
                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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          **************
          *            *
510 KK    *        K2  *
          *            *
          **************
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BASIN K2
THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
L= 5.4 Lca= 3.8 S= 146.0 Kn= .060 LAG= 106.0
PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN

515 KO OUTPUT CONTROL VARIABLES

IPRNT	4	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

SUBBASIN RUNOFF DATA

516 BA SUBBASIN CHARACTERISTICS

TAREA	2.42	SUBBASIN AREA

517 LG GREEN AND AMPT LOSS RATE

STRTL	.19	STARTING LOSS
DTH	.35	MOISTURE DEFICIT
PSIF	3.77	WETTING FRONT SUCTION
XKSAT	.30	HYDRAULIC CONDUCTIVITY
RTIMP	1.00	PERCENT IMPERVIOUS AREA

516 UI INPUT UNITGRAPH, 63 ORDINATES, VOLUME = 1.00

77.0	77.0	77.0	77.0	99.0	252.0	279.0	316.0	360.0	387.0
419.0	442.0	470.0	508.0	552.0	589.0	635.0	735.0	875.0	955.0
994.0	876.0	789.0	723.0	671.0	630.0	597.0	543.0	503.0	470.0
435.0	396.0	371.0	343.0	294.0	229.0	204.0	136.0	136.0	132.0
126.0	126.0	103.0	77.0	77.0	77.0	77.0	45.0	24.0	24.0
24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
24.0	24.0	24.0							

***

*** ***

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          **************
          *            *
526 KK    *   RTV-1K   *       Retrieve Divert
          *            *
          **************
```

DR RETRIEVE DIVERSION HYDROGRAPH
ISTAD 1J-D DIVERSION HYDROGRAPH IDENTIFICATION

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*** ***

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          **************
          *            *
528 KK    *        1K  *
          *            *
          **************
                          Combining K1 & K2 & IJ-D

530 KO          OUTPUT CONTROL VARIABLES
                      IPRNT           4  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


531 HC          HYDROGRAPH COMBINATION
                      ICOMP           3  NUMBER OF HYDROGRAPHS TO COMBINE

                                                    ***
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*** ***

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          **************
          *            *
532 KK    *    DIV-1K  *       Divert 1K-D
          *            *
          **************

    DT          DIVERSION
                      ISTAD        1K-D  DIVERSION HYDROGRAPH IDENTIFICATION

    DI             INFLOW     2699.00   2849.00   3014.00   3203.00   3425.00   3670.00

    DQ       DIVERTED FLOW         .00     10.00     44.00    109.00    213.00    371.00

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*** ***

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          **************
          *            *
    KK    *     1K-4E  *       Routing thru K3
          *            *
          **************

537 KO          OUTPUT CONTROL VARIABLES
```

```
                IPRNT          4  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


          HYDROGRAPH ROUTING DATA

538 RS         STORAGE ROUTING
                    NSTPS         21  NUMBER OF SUBREACHES
                     ITYP       FLOW  TYPE OF INITIAL CONDITION
                   RSVRIC        .00  INITIAL CONDITION
                        X        .00 WORKING R AND D COEFFICIENT

539 RC         NORMAL DEPTH CHANNEL
                     ANL       .050  LEFT OVERBANK N-VALUE
                    ANCH       .048  MAIN CHANNEL N-VALUE
                     ANR       .050  RIGHT OVERBANK N-VALUE
                   RLNTH      23874.  REACH LENGTH
                     SEL      .0091  ENERGY SLOPE
                   ELMAX         .0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                    CROSS-SECTION DATA
                          --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
541 RY       ELEVATION      16.50     14.50     11.50     10.00     10.00     11.50     14.50     16.50
    RX       DISTANCE         .00     90.00    190.00    202.00    220.00    232.00    332.00    422.00

                                                  ***

                                    COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

          STORAGE        .00      3.89      8.80     14.74     21.71     30.32     42.96     59.88     81.08    106.55
          OUTFLOW        .00      9.47     32.10     67.53    116.61    188.85    291.02    427.73    606.15    832.57
        ELEVATION      10.00     10.34     10.68     11.03     11.37     11.71     12.05     12.39     12.74     13.08

          STORAGE     136.30    170.33    208.63    251.21    298.60    351.75    410.67    475.36    545.82    622.06
          OUTFLOW    1112.80   1452.26   1856.12   2329.29   2854.26   3462.24   4164.17   4966.25   5874.56   6895.06
        ELEVATION      13.42     13.76     14.11     14.45     14.79     15.13     15.47     15.82     16.16     16.50


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


          ***************
          *             *
542 KK    *        K3   *
          *             *
          ***************
                       BASIN K3
                        THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
                        L=      4.5  Lca=      2.4   S=   48.0  Kn= .050  LAG=  85.0
                        PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN

547 KO         OUTPUT CONTROL VARIABLES
```

```
                IPRNT          4  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


          SUBBASIN RUNOFF DATA

548 BA         SUBBASIN CHARACTERISTICS
                TAREA       1.65  SUBBASIN AREA

549 LG         GREEN AND AMPT LOSS RATE
                STRTL        .16  STARTING LOSS
                  DTH        .35  MOISTURE DEFICIT
                 PSIF       3.85  WETTING FRONT SUCTION
                XKSAT        .60  HYDRAULIC CONDUCTIVITY
                RTIMP        .00  PERCENT IMPERVIOUS AREA

548 UI         INPUT UNITGRAPH,  50 ORDINATES,  VOLUME = 1.00
              65.0     65.0     65.0     79.0    215.0    247.0    296.0    327.0    359.0    385.0
             419.0    465.0    505.0    567.0    695.0    804.0    841.0    719.0    639.0    580.0
             536.0    495.0    444.0    405.0    369.0    331.0    307.0    258.0    198.0    153.0
             116.0    114.0    108.0    108.0     70.0     65.0     65.0     65.0     21.0     20.0
              20.0     20.0     20.0     20.0     20.0     20.0     20.0     20.0     20.0     20.0

                                                  ***

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


          **************
          *            *
557 KK    *        E5  *
          *            *
          **************
                     BASIN E5
                      THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
                      L=      2.9  Lca=      1.6   S=   26.0  Kn= .050  LAG=  69.0
                      PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN

562 KO         OUTPUT CONTROL VARIABLES
                IPRNT          4  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


          SUBBASIN RUNOFF DATA

563 BA         SUBBASIN CHARACTERISTICS
```

```
                TAREA        1.36  SUBBASIN AREA

564 LG      GREEN AND AMPT LOSS RATE
                STRTL         .18  STARTING LOSS
                  DTH         .34  MOISTURE DEFICIT
                 PSIF        4.30  WETTING FRONT SUCTION
                XKSAT         .43  HYDRAULIC CONDUCTIVITY
                RTIMP         .00  PERCENT IMPERVIOUS AREA

563 UI      INPUT UNITGRAPH,  41 ORDINATES,  VOLUME = 1.00
              66.0     66.0     66.0    191.0    250.0    311.0    346.0    381.0    422.0    479.0
             531.0    644.0    814.0    831.0    696.0    608.0    547.0    497.0    436.0    391.0
             341.0    311.0    245.0    187.0    117.0    115.0    109.0     95.0     66.0     66.0
              60.0     20.0     20.0     20.0     20.0     20.0     20.0     20.0     20.0     20.0
              20.0

                                                  ***

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


                **************
                *            *
571 KK          *        4E  *
                *            *
                **************
                          Combining E1+E2+E3+E4+F1+F2+F3+F4+H1+H2 & J1 & K1+K2 & E5 & J2 & K3

... KO      OUTPUT CONTROL VARIABLES
                IPRNT          4  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


574 HC      HYDROGRAPH COMBINATION
                ICOMP          6  NUMBER OF HYDROGRAPHS TO COMBINE

                                                  ***

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


                **************
                *            *
575 KK          *     4E-5E  *       Routing thru E6
                *            *
                **************

576 KO      OUTPUT CONTROL VARIABLES
                IPRNT          4  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


            HYDROGRAPH ROUTING DATA

577 RS          STORAGE ROUTING
                     NSTPS          5  NUMBER OF SUBREACHES
                     ITYP       FLOW   TYPE OF INITIAL CONDITION
                    RSVRIC       .00  INITIAL CONDITION
                         X       .00 WORKING R AND D COEFFICIENT

578 RC          NORMAL DEPTH CHANNEL
                       ANL       .063  LEFT OVERBANK N-VALUE
                      ANCH       .051  MAIN CHANNEL N-VALUE
                       ANR       .063  RIGHT OVERBANK N-VALUE
                     RLNTH      5000.  REACH LENGTH
                       SEL      .0060  ENERGY SLOPE
                     ELMAX         .0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                    CROSS-SECTION DATA
                          --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
580 RY       ELEVATION     17.00     13.00     13.00     10.00     10.00     12.00     12.00     17.00
579 RX       DISTANCE        .00    150.00    280.00    290.00    330.00    340.00    530.00    680.00

                                              ***

                                    COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

          STORAGE        .00      1.76      3.64      5.66      7.80     10.08     17.14     28.13     39.64     56.57
          OUTFLOW        .00     17.35     55.82    111.30    182.50    268.90    400.31    639.65    961.82   1401.88
        ELEVATION      10.00     10.37     10.74     11.11     11.47     11.84     12.21     12.58     12.95     13.32

          STORAGE      75.34     95.15    116.02    137.94    160.91    184.94    210.01    236.14    263.32    291.55
          OUTFLOW    1974.43   2663.35   3464.36   4376.01   5398.16   6531.45   7776.99   9136.24  10610.84  12202.62
        ELEVATION      13.68     14.05     14.42     14.79     15.16     15.53     15.89     16.26     16.63     17.00


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


          **************
          *            *
581 KK    *        E6  *
          *            *
          **************
                      BASIN E6
                       THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
                       L=       .5  Lca=       .5   S=   34.0  Kn= .050  LAG=  22.0
                       PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN

586 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          4  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


               SUBBASIN RUNOFF DATA

587 BA             SUBBASIN CHARACTERISTICS
                         TAREA     .21  SUBBASIN AREA

588 LG             GREEN AND AMPT LOSS RATE
                         STRTL     .17  STARTING LOSS
                           DTH     .34  MOISTURE DEFICIT
                          PSIF    3.92  WETTING FRONT SUCTION
                         XKSAT     .35  HYDRAULIC CONDUCTIVITY
                         RTIMP     .00  PERCENT IMPERVIOUS AREA

587 UI             INPUT UNITGRAPH,  13 ORDINATES,  VOLUME = 1.01
                        33.0     131.0     196.0     297.0     368.0     250.0     174.0      90.0      51.0      29.0
                        10.0      10.0      10.0

                                                      ***

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


            **************
            *            *
592 KK      *        5E  *
            *            *
            **************
                          Combining E1+E2+E3+E4+F1+F2+F3+F4+H1 & J1 & K1+K2 & E5 & H2 & J2 & K3 & E6

594 KO             OUTPUT CONTROL VARIABLES
                         IPRNT           4  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

                              ****************** BASIC STUDY - COMBINED STREAM FLOW **********************

595 HC             HYDROGRAPH COMBINATION
                         ICOMP           2  NUMBER OF HYDROGRAPHS TO COMBINE

                                                      ***

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

```
          **************
          *            *
597 KK    *        L1  *
          *            *
          **************
                    BASIN L1
                     THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
                     L=      4.0  Lca=      1.6   S=  450.0  Kn= .050  LAG=  46.0
                     PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN

602 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          4  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


                SUBBASIN RUNOFF DATA

603 BA          SUBBASIN CHARACTERISTICS
                      TAREA       3.48  SUBBASIN AREA

604 LG          GREEN AND AMPT LOSS RATE
                      STRTL        .28  STARTING LOSS
                        DTH        .35  MOISTURE DEFICIT
                       PSIF       3.92  WETTING FRONT SUCTION
                      XKSAT        .34  HYDRAULIC CONDUCTIVITY
                      RTIMP      15.00  PERCENT IMPERVIOUS AREA

603 UI          INPUT UNITGRAPH,  42 ORDINATES,  VOLUME = 1.00
                   255.0     255.0     713.0    1133.0    1568.0    1848.0    2155.0    2898.0    2287.0    1685.0
                  1488.0    1335.0    1207.0    1062.0     940.0     800.0     659.0     607.0     559.0     476.0
                   399.0     326.0     300.0     279.0     227.0     195.0     195.0     135.0     125.0     125.0
                   125.0      84.0      49.0      49.0      49.0      49.0      49.0      49.0      49.0      49.0
                    49.0      49.0

                                                        ***

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


          **************
          *            *
611 KK    *     L1-1L  *       Routing thru L2
          *            *
          **************

612 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          4  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


          HYDROGRAPH ROUTING DATA

613 RS         STORAGE ROUTING
                 NSTPS         15  NUMBER OF SUBREACHES
                  ITYP       FLOW  TYPE OF INITIAL CONDITION
                RSVRIC        .00  INITIAL CONDITION
                     X        .00 WORKING R AND D COEFFICIENT

614 RC         NORMAL DEPTH CHANNEL
                   ANL       .046  LEFT OVERBANK N-VALUE
                  ANCH       .045  MAIN CHANNEL N-VALUE
                   ANR       .046  RIGHT OVERBANK N-VALUE
                 RLNTH     30784.  REACH LENGTH
                   SEL      .0203  ENERGY SLOPE
                 ELMAX         .0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                   CROSS-SECTION DATA
                          --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
616 RY       ELEVATION     19.00     17.00     14.00     10.00     10.00     14.00     18.00     22.00
615 RX       DISTANCE        .00     80.00    165.00    200.00    215.00    255.00    340.00    420.00

                                                ***

                                   COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

          STORAGE        .00      9.34     23.96     43.87     69.06     99.55    135.31    178.29    234.77    305.23
          OUTFLOW        .00     38.83    146.28    335.34    620.73   1016.51   1535.99   2299.85   3316.89   4590.48
        ELEVATION      10.00     10.63     11.26     11.89     12.53     13.16     13.79     14.42     15.05     15.68

          STORAGE     389.66    488.07    601.84    732.84    880.84   1042.58   1210.31   1383.67   1562.68   1747.32
          OUTFLOW    6162.74   8070.99  10319.06  12998.18  16152.89  20041.32  24508.31  29469.82  34922.58  40865.62
        ELEVATION      16.32     16.95     17.58     18.21     18.84     19.47     20.11     20.74     21.37     22.00


*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN     6163. TO    40866.
                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.)


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


           **************
           *            *
617 KK     *        L2  *
           *            *
           **************
                      BASIN L2
                       THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
                       L=      5.8  Lca=      2.7   S=  107.0  Kn= .065  LAG= 109.0
                       PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN

622 KO         OUTPUT CONTROL VARIABLES
                    IPRNT           4  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


          SUBBASIN RUNOFF DATA

623 BA         SUBBASIN CHARACTERISTICS
                    TAREA       7.32  SUBBASIN AREA

624 LG         GREEN AND AMPT LOSS RATE
                    STRTL        .18  STARTING LOSS
                      DTH        .35  MOISTURE DEFICIT
                     PSIF       4.14  WETTING FRONT SUCTION
                    XKSAT        .38  HYDRAULIC CONDUCTIVITY
                    RTIMP        .00  PERCENT IMPERVIOUS AREA

623 UI         INPUT UNITGRAPH,  65 ORDINATES,  VOLUME = 1.00
                 226.0     226.0     226.0     226.0     226.0     735.0     799.0     892.0    1044.0    1110.0
                1214.0    1281.0    1358.0    1449.0    1562.0    1698.0    1790.0    2004.0    2303.0    2693.0
                3013.0    2767.0    2470.0    2247.0    2075.0    1941.0    1825.0    1719.0    1576.0    1463.0
                1359.0    1266.0    1157.0    1086.0    1004.0     866.0     671.0     611.0     400.0     400.0
                 391.0     371.0     371.0     332.0     226.0     226.0     226.0     226.0     186.0      69.0
                  69.0      69.0      69.0      69.0      69.0      69.0      69.0      69.0      69.0      69.0
                  69.0      69.0      69.0      69.0      69.0

                                                                                                  ***

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


          ***************
          *             *
633 KK    *    RTV-1L   *       Retrieve Divert 1K-D
          *             *
          ***************

634 DR         RETRIEVE DIVERSION HYDROGRAPH
                    ISTAD       1K-D  DIVERSION HYDROGRAPH IDENTIFICATION

                                                                                                  ***


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


          ***************
          *             *
   KK     *        1L   *
          *             *
          ***************
                         Combining L1 & L2 & IK-D

637 KO         OUTPUT CONTROL VARIABLES
```

```
                    IPRNT          4  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


638 HC          HYDROGRAPH COMBINATION
                    ICOMP          3  NUMBER OF HYDROGRAPHS TO COMBINE

                                                          ***

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


          **************
          *            *
639 KK    *    DIV-1L  *       Divert 1L-D
          *            *
          **************

    DT          DIVERSION
                    ISTAD        1L-D  DIVERSION HYDROGRAPH IDENTIFICATION

    DI            INFLOW     6842.00   6967.00   7130.00   7361.00   7585.00   7889.00

    DQ      DIVERTED FLOW         .00     21.00     96.00    251.00    418.00    670.00

                                                          ***

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


          **************
          *            *
643 KK    *     1L-2L  *       Routing thru L3
          *            *
          **************

644 KO          OUTPUT CONTROL VARIABLES
                    IPRNT          4  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


             HYDROGRAPH ROUTING DATA

645 RS          STORAGE ROUTING
```

```
                NSTPS          15  NUMBER OF SUBREACHES
                 ITYP        FLOW  TYPE OF INITIAL CONDITION
               RSVRIC         .00  INITIAL CONDITION
                    X         .00 WORKING R AND D COEFFICIENT

646 RC      NORMAL DEPTH CHANNEL
                  ANL        .048  LEFT OVERBANK N-VALUE
                 ANCH        .070  MAIN CHANNEL N-VALUE
                  ANR        .042  RIGHT OVERBANK N-VALUE
                RLNTH      17310.  REACH LENGTH
                  SEL       .0130  ENERGY SLOPE
                ELMAX          .0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                    CROSS-SECTION DATA
                          --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
648 RY      ELEVATION      14.00     12.00     11.30     10.00     10.00     11.30     12.00     14.00
647 RX      DISTANCE         .00    160.00    230.00    232.00    248.00    250.00    320.00    480.00

                                              ***

                                    COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

        STORAGE        .00      1.37      2.79      4.26      5.79      7.37      9.01     11.88     18.22     28.08
        OUTFLOW        .00      2.90      9.23     18.20     29.51     43.00     58.55     79.68    117.33    181.72
      ELEVATION      10.00     10.21     10.42     10.63     10.84     11.05     11.26     11.47     11.68     11.89

        STORAGE      41.38     57.58     76.60     98.44    123.10    150.58    180.87    213.98    249.91    288.66
        OUTFLOW     282.85    425.85    613.51    850.46   1141.15   1489.91   1900.89   2378.14   2925.55   3546.97
      ELEVATION      12.11     12.32     12.53     12.74     12.95     13.16     13.37     13.58     13.79     14.00

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

        **************
        *            *
649 KK  *        L3  *
        *            *
        **************
                    BASIN L3
                     THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
                     L=      3.3  Lca=      1.6   S=   69.0  Kn= .055  LAG=  67.0
                     PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN

654 KO      OUTPUT CONTROL VARIABLES
                 IPRNT           4  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


          SUBBASIN RUNOFF DATA

655 BA      SUBBASIN CHARACTERISTICS
```

```
                TAREA        6.85  SUBBASIN AREA

656 LG      GREEN AND AMPT LOSS RATE
                STRTL         .23  STARTING LOSS
                  DTH         .30  MOISTURE DEFICIT
                 PSIF        4.19  WETTING FRONT SUCTION
                XKSAT         .40  HYDRAULIC CONDUCTIVITY
                RTIMP         .00  PERCENT IMPERVIOUS AREA

655 UI      INPUT UNITGRAPH,  40 ORDINATES,  VOLUME = 1.00
              344.0     344.0     344.0    1066.0    1362.0    1634.0    1848.0    2030.0    2265.0    2560.0
             2913.0    3720.0    4385.0    4003.0    3399.0    3011.0    2729.0    2413.0    2131.0    1888.0
             1665.0    1421.0    1052.0     709.0     609.0     566.0     539.0     344.0     344.0     335.0
              106.0     106.0     106.0     106.0     106.0     106.0     106.0     106.0     106.0     106.0

                                                    ***

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


          **************
          *            *
663 KK    *        2L  *
          *            *
          **************
                        Combining L1+L2 & L3

KO        OUTPUT CONTROL VARIABLES
                IPRNT           4  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


666 HC      HYDROGRAPH COMBINATION
                ICOMP           2  NUMBER OF HYDROGRAPHS TO COMBINE

                                                    ***

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


          **************
          *            *
667 KK    *        M5  *
          *            *
          **************
                       BASIN M5
                        THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
                        L=      2.1  Lca=       .7   S=   51.0  Kn= .055  LAG=  44.0
                        PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
```

```
672 KO          OUTPUT CONTROL VARIABLES
                     IPRNT           4  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


               SUBBASIN RUNOFF DATA

673 BA          SUBBASIN CHARACTERISTICS
                     TAREA         .76  SUBBASIN AREA

674 LG          GREEN AND AMPT LOSS RATE
                     STRTL         .18  STARTING LOSS
                       DTH         .34  MOISTURE DEFICIT
                      PSIF        4.24  WETTING FRONT SUCTION
                     XKSAT         .41  HYDRAULIC CONDUCTIVITY
                     RTIMP         .00  PERCENT IMPERVIOUS AREA

673 UI          INPUT UNITGRAPH,  26 ORDINATES,  VOLUME = 1.00
                    58.0      58.0     200.0     268.0     325.0     379.0     455.0     609.0     735.0     582.0
                   486.0     409.0     340.0     283.0     202.0     121.0      99.0      83.0      58.0      45.0
                    18.0      18.0      18.0      18.0      18.0      18.0
                                                                                                              ***

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


               **************
               *            *
679 KK         *    RTVBES  *       Retreive Divert 1L-D
               *            *
               **************

680 DR          RETRIEVE DIVERSION HYDROGRAPH
                     ISTAD        1L-D  DIVERSION HYDROGRAPH IDENTIFICATION

                                                                                                              ***


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


               **************
               *            *
681 KK         *      BES1  *       BUCKEYE STRUCTURE NO. 1
               *            *
               **************
                         Combining 5E & L1+L2 & M5 & IL-D

683 KO          OUTPUT CONTROL VARIABLES
                     IPRNT           4  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

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

684 HC          HYDROGRAPH COMBINATION
                ICOMP          4  NUMBER OF HYDROGRAPHS TO COMBINE

                                                    ***

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


          **************
          *            *
686 KK    *        M1  *
          *            *
          **************
                       BASIN M1
                        THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
                        L=      4.2  Lca=      2.6   S=  368.0  Kn= .050  LAG=  58.0
                        PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN

691 KO          OUTPUT CONTROL VARIABLES
                IPRNT          4  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


             SUBBASIN RUNOFF DATA

692 BA          SUBBASIN CHARACTERISTICS
                TAREA       3.32  SUBBASIN AREA

693 LG          GREEN AND AMPT LOSS RATE
                STRTL        .25  STARTING LOSS
                  DTH        .35  MOISTURE DEFICIT
                 PSIF       3.77  WETTING FRONT SUCTION
                XKSAT        .31  HYDRAULIC CONDUCTIVITY
                RTIMP      17.00  PERCENT IMPERVIOUS AREA

692 UI          INPUT UNITGRAPH,  53 ORDINATES,  VOLUME = 1.00
                   193.0     193.0     312.0     628.0     871.0    1160.0    1324.0    1478.0    1723.0    2214.0
                  1896.0    1372.0    1188.0    1104.0    1009.0     929.0     849.0     769.0     693.0     611.0
                   514.0     474.0     447.0     415.0     367.0     316.0     261.0     246.0     222.0     211.0
                   194.0     148.0     148.0     148.0     106.0      94.0      94.0      94.0      94.0      75.0
                    37.0      37.0      37.0      37.0      37.0      37.0      37.0      37.0      37.0      37.0
                    37.0      37.0      37.0
```

```
                                                         ***

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


            **************
            *            *
 701 KK     *        M2  *
            *            *
            **************
                         BASIN M2
                          THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
                          L=      3.8  Lca=      1.9   S=  398.0  Kn= .050  LAG=  49.0
                          PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN

 706 KO         OUTPUT CONTROL VARIABLES
                      IPRNT          4  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


               SUBBASIN RUNOFF DATA

 707 BA         SUBBASIN CHARACTERISTICS
                      TAREA       1.68  SUBBASIN AREA

 708 LG         GREEN AND AMPT LOSS RATE
                      STRTL        .26  STARTING LOSS
                        DTH        .35  MOISTURE DEFICIT
                       PSIF       4.30  WETTING FRONT SUCTION
                      XKSAT        .40  HYDRAULIC CONDUCTIVITY
                      RTIMP      20.00  PERCENT IMPERVIOUS AREA

 707 UI         INPUT UNITGRAPH,  45 ORDINATES,  VOLUME = 1.00
                   116.0     116.0     278.0     473.0     672.0     797.0     906.0    1134.0    1326.0     861.0
                   723.0     658.0     591.0     537.0     477.0     423.0     365.0     301.0     278.0     259.0
                   230.0     190.0     154.0     146.0     127.0     126.0      89.0      89.0      86.0      57.0
                    57.0      57.0      57.0      40.0      22.0      22.0      22.0      22.0      22.0      22.0
                    22.0      22.0      22.0      22.0      22.0

                                                         ***


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


            **************
            *            *
 715 KK     *        M3  *
            *            *
            **************
```

```
                    BASIN M3
                     THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
                     L=       1.2  Lca=       .6   S=  478.0  Kn= .050  LAG=  21.0
                     PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN

720 KO          OUTPUT CONTROL VARIABLES
                      IPRNT           4  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


              SUBBASIN RUNOFF DATA

721 BA          SUBBASIN CHARACTERISTICS
                      TAREA         .54  SUBBASIN AREA

722 LG          GREEN AND AMPT LOSS RATE
                      STRTL         .29  STARTING LOSS
                        DTH         .35  MOISTURE DEFICIT
                       PSIF        3.87  WETTING FRONT SUCTION
                      XKSAT         .34  HYDRAULIC CONDUCTIVITY
                      RTIMP        9.00  PERCENT IMPERVIOUS AREA

723 UI          INPUT UNITGRAPH,  19 ORDINATES,  VOLUME =  .99
                    91.0     359.0     618.0     881.0     548.0     426.0     327.0     231.0     184.0     125.0
                    98.0      70.0      51.0      42.0      26.0      16.0      16.0      16.0      16.0

                                                              ***



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


            ***************
            *             *
727 KK      *        1M   *
            *             *
            ***************
                       Combining M1 & M2 & M3

729 KO          OUTPUT CONTROL VARIABLES
                      IPRNT           4  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


730 HC          HYDROGRAPH COMBINATION
                      ICOMP           3  NUMBER OF HYDROGRAPHS TO COMBINE
```

***

*** ***

```
          **************
          *            *
731 KK    *     1M-2M  *       Routing thru M4
          *            *
          **************
```

732 KO OUTPUT CONTROL VARIABLES

IPRNT	4	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

HYDROGRAPH ROUTING DATA

733 RS STORAGE ROUTING

NSTPS	28	NUMBER OF SUBREACHES
ITYP	FLOW	TYPE OF INITIAL CONDITION
RSVRIC	.00	INITIAL CONDITION
X	.00	WORKING R AND D COEFFICIENT

734 RC NORMAL DEPTH CHANNEL

ANL	.047	LEFT OVERBANK N-VALUE
ANCH	.042	MAIN CHANNEL N-VALUE
ANR	.047	RIGHT OVERBANK N-VALUE
RLNTH	36390.	REACH LENGTH
SEL	.0152	ENERGY SLOPE
ELMAX	.0	MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

CROSS-SECTION DATA

		--- LEFT OVERBANK ---		+ ------ MAIN CHANNEL -------			+ --- RIGHT OVERBANK ---		
736 RY	ELEVATION	15.00	14.00	13.00	10.00	10.00	12.00	15.00	17.00
735 RX	DISTANCE	.00	110.00	240.00	252.00	262.00	274.00	404.00	514.00

***

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	3.64	8.42	14.34	21.38	29.56	39.57	54.55	74.90	105.87
OUTFLOW	.00	8.88	30.54	65.08	113.69	177.70	265.05	384.10	541.57	766.80
ELEVATION	10.00	10.37	10.74	11.11	11.47	11.84	12.21	12.58	12.95	13.32
STORAGE	156.35	226.45	314.78	420.49	542.57	672.70	809.07	951.68	1100.52	1255.60
OUTFLOW	1092.73	1555.40	2186.74	3003.70	4067.09	5403.50	6957.97	8728.59	10715.19	12918.70
ELEVATION	13.68	14.05	14.42	14.79	15.16	15.53	15.89	16.26	16.63	17.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 5403. TO 12919.
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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          **************
          *            *
737 KK    *        M4  *
          *            *
          **************
```

BASIN M4
THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
L= 6.9 Lca= 2.6 S= 80.0 Kn= .065 LAG= 122.0
PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN

742 KO OUTPUT CONTROL VARIABLES

IPRNT	4	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

SUBBASIN RUNOFF DATA

BA SUBBASIN CHARACTERISTICS

TAREA	8.18	SUBBASIN AREA

744 LG GREEN AND AMPT LOSS RATE

STRTL	.17	STARTING LOSS
DTH	.35	MOISTURE DEFICIT
PSIF	4.30	WETTING FRONT SUCTION
XKSAT	.42	HYDRAULIC CONDUCTIVITY
RTIMP	1.00	PERCENT IMPERVIOUS AREA

743 UI INPUT UNITGRAPH, 72 ORDINATES, VOLUME = 1.00

226.0	226.0	226.0	226.0	226.0	426.0	742.0	826.0	903.0	1039.0
1105.0	1192.0	1255.0	1319.0	1393.0	1488.0	1603.0	1705.0	1791.0	1990.0
2252.0	2623.0	2848.0	2960.0	2638.0	2399.0	2211.0	2060.0	1947.0	1834.0
1754.0	1624.0	1504.0	1412.0	1334.0	1240.0	1148.0	1087.0	1029.0	866.0
737.0	649.0	489.0	400.0	400.0	386.0	371.0	371.0	363.0	226.0
226.0	226.0	226.0	226.0	157.0	69.0	69.0	69.0	69.0	69.0
69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
69.0	69.0								

***

*** ***

```
          **************
          *            *
754 KK    *        2M  *
```

```
          *           *
          **************
                          Combining M1+M2+M3 & M4

    KO          OUTPUT CONTROL VARIABLES
                      IPRNT           4  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


757 HC          HYDROGRAPH COMBINATION
                      ICOMP           2  NUMBER OF HYDROGRAPHS TO COMBINE

                                                                    ***


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


          **************
          *           *
758 KK    *        N1 *
          *           *
          **************
                       BASIN N1
                        THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
                        L=      2.0  Lca=       .8   S=  465.0  Kn= .050  LAG=  27.0
                        PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN

763 KO          OUTPUT CONTROL VARIABLES
                      IPRNT           4  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


                SUBBASIN RUNOFF DATA

764 BA          SUBBASIN CHARACTERISTICS
                      TAREA        1.46  SUBBASIN AREA

765 LG          GREEN AND AMPT LOSS RATE
                      STRTL         .28  STARTING LOSS
                        DTH         .35  MOISTURE DEFICIT
                       PSIF        4.19  WETTING FRONT SUCTION
                      XKSAT         .38  HYDRAULIC CONDUCTIVITY
                      RTIMP        8.00  PERCENT IMPERVIOUS AREA

764 UI          INPUT UNITGRAPH,  24 ORDINATES,  VOLUME = 1.00
                    183.0     499.0    1049.0    1415.0    1971.0    1250.0    1004.0     834.0     674.0     504.0
```

```
                423.0     337.0     247.0     206.0     159.0     136.0      89.0      89.0      60.0      35.0
                 35.0      35.0      35.0      35.0

                                                  ***

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


        **************
        *            *
770 KK  *     N1-1N  *       Routing thru N2
        *            *
        **************

771 KO          OUTPUT CONTROL VARIABLES
                     IPRNT           4  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


            HYDROGRAPH ROUTING DATA

 RS         STORAGE ROUTING
                     NSTPS          21  NUMBER OF SUBREACHES
                      ITYP        FLOW  TYPE OF INITIAL CONDITION
                    RSVRIC         .00  INITIAL CONDITION
                         X         .00 WORKING R AND D COEFFICIENT

773 RC          NORMAL DEPTH CHANNEL
                       ANL        .050  LEFT OVERBANK N-VALUE
                      ANCH        .047  MAIN CHANNEL N-VALUE
                       ANR        .050  RIGHT OVERBANK N-VALUE
                     RLNTH       26520.  REACH LENGTH
                       SEL       .0184  ENERGY SLOPE
                     ELMAX          .0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                        CROSS-SECTION DATA
                           --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
775 RY       ELEVATION      14.00     13.00     11.50     10.00     10.00     11.50     13.00     14.00
774 RX       DISTANCE         .00     70.00    140.00    148.00    157.00    171.00    241.00    311.00

                                                  ***

                                        COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

          STORAGE        .00      1.35      3.10      5.24      7.78     10.71     14.04     17.77     22.71     30.14
          OUTFLOW        .00      3.08     10.54     22.35     38.88     60.55     87.79    121.03    169.27    232.15
        ELEVATION      10.00     10.21     10.42     10.63     10.84     11.05     11.26     11.47     11.68     11.89

          STORAGE      40.10     52.57     67.56     85.07    105.10    128.00    154.64    185.06    219.25    257.23
          OUTFLOW     313.45    417.08    546.51    704.94    895.34   1109.94   1364.32   1666.70   2021.07   2431.38
        ELEVATION      12.11     12.32     12.53     12.74     12.95     13.16     13.37     13.58     13.79     14.00
```

*** ***

```
          **************
          *            *
776 KK    *        N2  *
          *            *
          **************
                    BASIN N2
                     THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
                     L=      5.0  Lca=      2.4   S=   97.0  Kn= .065  LAG= 101.0
                     PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN

781 KO          OUTPUT CONTROL VARIABLES
                      IPRNT           4  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


               SUBBASIN RUNOFF DATA

BA              SUBBASIN CHARACTERISTICS
                      TAREA        4.13  SUBBASIN AREA

783 LG          GREEN AND AMPT LOSS RATE
                      STRTL         .18  STARTING LOSS
                        DTH         .35  MOISTURE DEFICIT
                       PSIF        4.14  WETTING FRONT SUCTION
                      XKSAT         .39  HYDRAULIC CONDUCTIVITY
                      RTIMP        1.00  PERCENT IMPERVIOUS AREA

782 UI          INPUT UNITGRAPH,  60 ORDINATES,  VOLUME = 1.00
                   138.0     138.0     138.0     138.0     249.0     453.0     524.0     605.0     663.0     722.0
                   772.0     825.0     883.0     961.0    1041.0    1118.0    1281.0    1548.0    1684.0    1790.0
                  1571.0    1406.0    1286.0    1194.0    1115.0    1046.0     955.0     876.0     817.0     748.0
                   687.0     643.0     553.0     456.0     396.0     254.0     244.0     238.0     226.0     226.0
                   184.0     138.0     138.0     138.0     138.0      58.0      42.0      42.0      42.0      42.0
                    42.0      42.0      42.0      42.0      42.0      42.0      42.0      42.0      42.0      42.0

                                                    ***
```

*** ***

```
          **************
          *            *
792 KK    *        1N  *
          *            *
          **************
                         Combining N1 & N2
```

```
794 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          4  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


795 HC          HYDROGRAPH COMBINATION
                     ICOMP          2  NUMBER OF HYDROGRAPHS TO COMBINE

                                                                    ***

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


          **************
          *            *
796 KK    *        P1  *
          *            *
          **************
                    BASIN P1
                     THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
                     L=       .8  Lca=       .5   S=  844.0  Kn= .050  LAG=  14.0
                     PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN

801 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          4  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


               SUBBASIN RUNOFF DATA

802 BA          SUBBASIN CHARACTERISTICS
                     TAREA         .37  SUBBASIN AREA

803 LG          GREEN AND AMPT LOSS RATE
                     STRTL         .39  STARTING LOSS
                       DTH         .35  MOISTURE DEFICIT
                      PSIF        4.19  WETTING FRONT SUCTION
                     XKSAT         .39  HYDRAULIC CONDUCTIVITY
                     RTIMP        8.00  PERCENT IMPERVIOUS AREA

  UI            INPUT UNITGRAPH,  12 ORDINATES,  VOLUME =  .99
                   159.0     576.0     810.0     467.0     311.0     201.0     121.0      80.0      50.0      32.0
                    17.0      17.0

                                                                    ***
```

*** ***

```
          **************
          *            *
807 KK    *     P1-1P  *       Routing thru P2
          *            *
          **************
```

808 KO OUTPUT CONTROL VARIABLES

IPRNT	4	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

HYDROGRAPH ROUTING DATA

809 RS STORAGE ROUTING

NSTPS	5	NUMBER OF SUBREACHES
ITYP	FLOW	TYPE OF INITIAL CONDITION
RSVRIC	.00	INITIAL CONDITION
X	.00	WORKING R AND D COEFFICIENT

810 RC NORMAL DEPTH CHANNEL

ANL	.048	LEFT OVERBANK N-VALUE
ANCH	.068	MAIN CHANNEL N-VALUE
ANR	.048	RIGHT OVERBANK N-VALUE
RLNTH	13340.	REACH LENGTH
SEL	.0805	ENERGY SLOPE
ELMAX	.0	MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

CROSS-SECTION DATA

		--- LEFT OVERBANK ---		+ ------ MAIN CHANNEL -------		+ --- RIGHT OVERBANK ---		
812 RY	ELEVATION	26.00	25.00	24.00	10.00	10.00	26.00	27.00	28.00
811 RX	DISTANCE	.00	60.00	120.00	134.00	144.00	158.00	218.00	278.00

***

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	3.16	6.83	11.02	15.73	20.95	26.68	32.94	39.70	46.98
OUTFLOW	.00	56.13	179.21	357.91	591.02	879.71	1226.05	1632.50	2101.70	2636.36
ELEVATION	10.00	10.95	11.89	12.84	13.79	14.74	15.68	16.63	17.58	18.53
STORAGE	54.78	63.09	71.92	81.26	91.12	101.90	124.50	163.83	219.75	292.16
OUTFLOW	3239.22	3913.03	4660.49	5484.31	6387.16	7403.48	8843.79	11140.62	15106.07	20669.01
ELEVATION	19.47	20.42	21.37	22.32	23.26	24.21	25.16	26.11	27.05	28.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 880. TO 20669.
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.)

*** ***

```
          **************
          *            *
813 KK    *        P2  *
          *            *
          **************
                        BASIN P2
                         THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
                         L=      2.5  Lca=      2.0   S=  425.0  Kn= .050  LAG=  42.0
                         PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN

818 KO          OUTPUT CONTROL VARIABLES
                      IPRNT           4  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


                SUBBASIN RUNOFF DATA

 BA             SUBBASIN CHARACTERISTICS
                      TAREA        1.43  SUBBASIN AREA

820 LG          GREEN AND AMPT LOSS RATE
                      STRTL         .27  STARTING LOSS
                        DTH         .35  MOISTURE DEFICIT
                       PSIF        4.19  WETTING FRONT SUCTION
                      XKSAT         .40  HYDRAULIC CONDUCTIVITY
                      RTIMP        9.00  PERCENT IMPERVIOUS AREA

819 UI          INPUT UNITGRAPH,  38 ORDINATES,  VOLUME = 1.00
                    114.0     129.0     373.0     584.0     758.0     888.0    1151.0    1196.0     787.0     673.0
                    600.0     535.0     467.0     405.0     330.0     286.0     261.0     230.0     187.0     146.0
                    136.0     125.0      98.0      88.0      81.0      56.0      56.0      56.0      47.0      22.0
                     22.0      22.0      22.0      22.0      22.0      22.0      22.0      22.0
```

***

*** ***

```
          **************
          *            *
 KK       *        1P  *
          *            *
          **************
                         Combining P1 & P2

828 KO          OUTPUT CONTROL VARIABLES
```

```
                    IPRNT           4  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


829 HC          HYDROGRAPH COMBINATION
                    ICOMP           2  NUMBER OF HYDROGRAPHS TO COMBINE

                                                    ***

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


          **************
          *            *
830 KK    *     1P-2P  *        Routing thru P3
          *            *
          **************

831 KO          OUTPUT CONTROL VARIABLES
                    IPRNT           4  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


              HYDROGRAPH ROUTING DATA

832 RS          STORAGE ROUTING
                    NSTPS          15  NUMBER OF SUBREACHES
                     ITYP        FLOW  TYPE OF INITIAL CONDITION
                   RSVRIC         .00  INITIAL CONDITION
                        X         .00 WORKING R AND D COEFFICIENT

833 RC          NORMAL DEPTH CHANNEL
                      ANL        .053  LEFT OVERBANK N-VALUE
                     ANCH        .047  MAIN CHANNEL N-VALUE
                      ANR        .052  RIGHT OVERBANK N-VALUE
                    RLNTH      19430.  REACH LENGTH
                      SEL       .0245  ENERGY SLOPE
                    ELMAX          .0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                       CROSS-SECTION DATA
                          --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
      RY        ELEVATION     17.00     15.00     13.00     10.00     10.00     12.00     15.00     17.00
834 RX        DISTANCE         .00    110.00    230.00    235.00    243.00    248.00    368.00    478.00

                                                    ***
```

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	1.44	3.13	5.08	7.28	9.73	12.80	18.19	26.10	37.83
OUTFLOW	.00	7.70	25.22	51.40	86.25	130.09	187.50	268.07	381.18	547.41
ELEVATION	10.00	10.37	10.74	11.11	11.47	11.84	12.21	12.58	12.95	13.32
STORAGE	55.57	79.38	109.23	145.14	187.17	235.75	290.99	352.89	421.45	496.68
OUTFLOW	787.61	1123.71	1575.21	2159.79	2882.93	3762.20	4830.00	6101.72	7592.33	9316.41
ELEVATION	13.68	14.05	14.42	14.79	15.16	15.53	15.89	16.26	16.63	17.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 4830. TO 9316.
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.)

*** ***

```
          **************
          *            *
836 KK    *        P3  *
          *            *
          **************
```

BASIN P3
THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
L= 3.7 Lca= 1.2 S= 129.0 Kn= .060 LAG= 61.0
PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN

KO OUTPUT CONTROL VARIABLES

IPRNT	4	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

SUBBASIN RUNOFF DATA

842 BA SUBBASIN CHARACTERISTICS

TAREA	2.76	SUBBASIN AREA

843 LG GREEN AND AMPT LOSS RATE

STRTL	.19	STARTING LOSS
DTH	.35	MOISTURE DEFICIT
PSIF	4.08	WETTING FRONT SUCTION
XKSAT	.38	HYDRAULIC CONDUCTIVITY
RTIMP	7.00	PERCENT IMPERVIOUS AREA

842 UI INPUT UNITGRAPH, 36 ORDINATES, VOLUME = 1.00

153.0	153.0	220.0	529.0	656.0	776.0	869.0	973.0	1117.0	1277.0
1646.0	1961.0	1701.0	1442.0	1277.0	1141.0	985.0	869.0	755.0	640.0
468.0	300.0	265.0	251.0	199.0	153.0	153.0	76.0	47.0	47.0
47.0	47.0	47.0	47.0	47.0	47.0				

***

*** ***

```
          **************
          *            *
849 KK    *        2P  *
          *            *
          **************
                        Combining P1+P2 & P3

851 KO          OUTPUT CONTROL VARIABLES
                     IPRNT           4  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


852 HC          HYDROGRAPH COMBINATION
                     ICOMP           2  NUMBER OF HYDROGRAPHS TO COMBINE

                                                  ***
```

*** ***

```
          **************
          *            *
853 KK    *        Q1  *
          *            *
          **************
                       BASIN Q1
                        THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
                        L=      2.2  Lca=      1.0   S=  471.0  Kn= .050  LAG=  31.0
                        PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN

858 KO          OUTPUT CONTROL VARIABLES
                     IPRNT           4  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


          SUBBASIN RUNOFF DATA

859 BA          SUBBASIN CHARACTERISTICS
                     TAREA        1.09  SUBBASIN AREA
```

```
860 LG          GREEN AND AMPT LOSS RATE
                      STRTL         .28  STARTING LOSS
                        DTH         .35  MOISTURE DEFICIT
                       PSIF        4.24  WETTING FRONT SUCTION
                      XKSAT         .41  HYDRAULIC CONDUCTIVITY
                      RTIMP       12.00  PERCENT IMPERVIOUS AREA

859 UI          INPUT UNITGRAPH,  28 ORDINATES,  VOLUME = 1.00
                   118.0     254.0     577.0     817.0    1056.0    1224.0     767.0     647.0     551.0     461.0
                   362.0     293.0     259.0     202.0     152.0     132.0     107.0      91.0      67.0      58.0
                    58.0      30.0      23.0      23.0      23.0      23.0      23.0      23.0

                                                    ***

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


          **************
          *            *
865 KK    *     Q1-1Q  *       Routing thru Q2
          *            *
          **************

866 KO          OUTPUT CONTROL VARIABLES
                      IPRNT           4  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


               HYDROGRAPH ROUTING DATA

867 RS          STORAGE ROUTING
                      NSTPS           7  NUMBER OF SUBREACHES
                       ITYP        FLOW  TYPE OF INITIAL CONDITION
                     RSVRIC         .00  INITIAL CONDITION
                          X         .00 WORKING R AND D COEFFICIENT

868 RC          NORMAL DEPTH CHANNEL
                        ANL        .060  LEFT OVERBANK N-VALUE
                       ANCH        .058  MAIN CHANNEL N-VALUE
                        ANR        .060  RIGHT OVERBANK N-VALUE
                      RLNTH      14377.  REACH LENGTH
                        SEL       .0242  ENERGY SLOPE
                      ELMAX          .0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                        CROSS-SECTION DATA
                              --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
   RY        ELEVATION     17.00     15.00     13.00     10.00     10.00     14.00     21.00     27.00
   RX        DISTANCE        .00     80.00    170.00    179.00    186.00    216.00    306.00    386.00

                                                    ***

                                   COMPUTED STORAGE-OUTFLOW-ELEVATION DATA
```

STORAGE	.00	3.45	9.68	18.69	32.79	60.27	102.76	159.46	229.95	307.43
OUTFLOW	.00	30.76	126.45	307.16	615.75	1213.87	2246.99	3791.28	5983.73	9076.48
ELEVATION	10.00	10.89	11.79	12.68	13.58	14.47	15.37	16.26	17.16	18.05
STORAGE	388.30	472.57	560.23	651.33	745.94	844.08	945.74	1050.92	1159.62	1271.85
OUTFLOW	12798.64	17133.75	22073.42	27608.43	33743.92	40485.06	47835.83	55801.29	64387.32	73600.38
ELEVATION	18.95	19.84	20.74	21.63	22.53	23.42	24.32	25.21	26.11	27.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 9076. TO 73600.
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.)

*** ***

```
          **************
          *            *
871 KK    *        Q2  *
          *            *
          **************
```

BASIN Q2
THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
L= 2.7 Lca= 1.4 S= 128.0 Kn= .060 LAG= 58.0
PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN

KO OUTPUT CONTROL VARIABLES

IPRNT	4	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

SUBBASIN RUNOFF DATA

877 BA SUBBASIN CHARACTERISTICS

TAREA	1.29	SUBBASIN AREA

878 LG GREEN AND AMPT LOSS RATE

STRTL	.19	STARTING LOSS
DTH	.35	MOISTURE DEFICIT
PSIF	3.98	WETTING FRONT SUCTION
XKSAT	.35	HYDRAULIC CONDUCTIVITY
RTIMP	11.00	PERCENT IMPERVIOUS AREA

877 UI INPUT UNITGRAPH, 34 ORDINATES, VOLUME = 1.00

75.0	75.0	132.0	268.0	341.0	395.0	443.0	504.0	577.0	704.0
918.0	912.0	749.0	650.0	579.0	500.0	436.0	376.0	317.0	231.0
144.0	129.0	123.0	88.0	75.0	72.0	23.0	23.0	23.0	23.0
23.0	23.0	23.0	23.0						

***

*** ***

```
          **************
          *            *
884 KK    *        1Q  *
          *            *
          **************
                          Combining Q1 & Q2

886 KO          OUTPUT CONTROL VARIABLES
                      IPRNT           4  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


887 HC          HYDROGRAPH COMBINATION
                      ICOMP           2  NUMBER OF HYDROGRAPHS TO COMBINE

                                                 ***
```

*** ***

```
          **************
          *            *
888 KK    *     BES2W  *       BUCKEYE STRUCTURE NO. 2 - WESTERN OR LOWER PORTION
          *            *
          **************
                          Combining  M1+M2+M3+M4 & P1+P2+P3 & Q1+Q2

890 KO          OUTPUT CONTROL VARIABLES
                      IPRNT           4  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

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

891 HC          HYDROGRAPH COMBINATION
                      ICOMP           4  NUMBER OF HYDROGRAPHS TO COMBINE

                                                 ***
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*** ***

```
          **************
          *            *
    KK    *        R1  *
          *            *
          **************
                       BASIN R1
                        THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
                        L=       .9  Lca=       .4   S=  285.0  Kn= .050  LAG=  16.0
                        PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN

898 KO            OUTPUT CONTROL VARIABLES
                        IPRNT           4  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


                   SUBBASIN RUNOFF DATA

899 BA            SUBBASIN CHARACTERISTICS
                        TAREA         .30  SUBBASIN AREA

900 LG            GREEN AND AMPT LOSS RATE
                        STRTL         .23  STARTING LOSS
                          DTH         .35  MOISTURE DEFICIT
                         PSIF        3.98  WETTING FRONT SUCTION
                        XKSAT         .35  HYDRAULIC CONDUCTIVITY
                        RTIMP        6.00  PERCENT IMPERVIOUS AREA

899 UI            INPUT UNITGRAPH,  14 ORDINATES,  VOLUME =  .99
                     94.0     358.0     608.0     392.0     281.0     187.0     132.0      83.0      58.0      38.0
                     30.0      12.0      12.0      12.0

                                                                ***


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


          **************
          *            *
904 KK    *        S1  *
          *            *
          **************
                       BASIN S1
                        THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
                        L=      2.4  Lca=       .7   S=  140.0  Kn= .050  LAG=  33.0
                        PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN

909 KO            OUTPUT CONTROL VARIABLES
                        IPRNT           4  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


          SUBBASIN RUNOFF DATA

910 BA         SUBBASIN CHARACTERISTICS
                TAREA       1.46  SUBBASIN AREA

911 LG         GREEN AND AMPT LOSS RATE
                STRTL        .19  STARTING LOSS
                  DTH        .35  MOISTURE DEFICIT
                 PSIF       3.77  WETTING FRONT SUCTION
                XKSAT        .31  HYDRAULIC CONDUCTIVITY
                RTIMP       7.00  PERCENT IMPERVIOUS AREA

910 UI         INPUT UNITGRAPH,  30 ORDINATES,  VOLUME = 1.00
              149.0     284.0     668.0     981.0    1216.0    1674.0    1082.0     874.0     754.0     644.0
              540.0     422.0     356.0     320.0     240.0     191.0     166.0     138.0     114.0      92.0
               73.0      73.0      54.0      29.0      29.0      29.0      29.0      29.0      29.0      29.0

                                                    ***

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


          **************
          *            *
917 KK    *        T1  *
          *            *
          **************
                      BASIN T1
                       THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
                       L=      3.9  Lca=      1.6   S=  304.0  Kn= .050  LAG=  49.0
                       PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN

922 KO         OUTPUT CONTROL VARIABLES
                IPRNT          4  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


          SUBBASIN RUNOFF DATA

?3 BA          SUBBASIN CHARACTERISTICS
                TAREA       2.96  SUBBASIN AREA

924 LG         GREEN AND AMPT LOSS RATE
                STRTL        .24  STARTING LOSS
                  DTH        .35  MOISTURE DEFICIT
```

```
                PSIF        3.61  WETTING FRONT SUCTION
                XKSAT        .29  HYDRAULIC CONDUCTIVITY
                RTIMP       10.00 PERCENT IMPERVIOUS AREA

   UI       INPUT UNITGRAPH,  45 ORDINATES,  VOLUME = 1.00
              204.0     204.0     489.0     832.0    1183.0    1403.0    1595.0    1997.0    2334.0    1516.0
             1272.0    1158.0    1040.0     945.0     840.0     745.0     642.0     530.0     490.0     456.0
              406.0     335.0     271.0     257.0     223.0     221.0     156.0     156.0     151.0     100.0
              100.0     100.0     100.0      70.0      39.0      39.0      39.0      39.0      39.0      39.0
               39.0      39.0      39.0      39.0      39.0

                                                ***

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


         **************
         *            *
931 KK   *        U1  *
         *            *
         **************
                     BASIN U1
                      THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
                      L=      2.1  Lca=      1.1   S=  377.0  Kn= .050  LAG=  32.0
                      PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN

936 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          4  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


              SUBBASIN RUNOFF DATA

937 BA          SUBBASIN CHARACTERISTICS
                      TAREA       1.39  SUBBASIN AREA

938 LG          GREEN AND AMPT LOSS RATE
                      STRTL        .26  STARTING LOSS
                        DTH        .37  MOISTURE DEFICIT
                       PSIF       4.74  WETTING FRONT SUCTION
                      XKSAT        .22  HYDRAULIC CONDUCTIVITY
                      RTIMP       8.00  PERCENT IMPERVIOUS AREA

937 UI          INPUT UNITGRAPH,  29 ORDINATES,  VOLUME = 1.00
              147.0     294.0     688.0     987.0    1245.0    1598.0    1002.0     831.0     714.0     602.0
              493.0     381.0     338.0     278.0     212.0     177.0     159.0     112.0     107.0      72.0
               72.0      67.0      28.0      28.0      28.0      28.0      28.0      28.0      28.0

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*** ***

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          **************
          *            *
944 KK    *     BES2E  *        BUCKEYE STRUCTURE NO. 2 - EASTERN OR UPPER PORTION
          *            *
          **************
                          Combining  R1 & S1 & T1 & U1

946 KO          OUTPUT CONTROL VARIABLES
                     IPRNT           4  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


947 HC          HYDROGRAPH COMBINATION
                     ICOMP           4  NUMBER OF HYDROGRAPHS TO COMBINE

                                                ***
```

*** ***

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          **************
          *            *
948 KK    *      BES2  *        BUCKEYE STRUCTURE NO. 2 - COMBINED
          *            *
          **************
                          Combining BES2W & BES2E

950 KO          OUTPUT CONTROL VARIABLES
                     IPRNT           4  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

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

951 HC          HYDROGRAPH COMBINATION
                     ICOMP           2  NUMBER OF HYDROGRAPHS TO COMBINE

                                                ***
```

*** ***

```
          ***************
          *             *
953 KK    *        V1   *
          *             *
          ***************
                          BASIN V1
                           THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
                           L=      2.7  Lca=      1.6   S=  389.0  Kn= .050  LAG=  40.0
                           PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN

958 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          4  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


                SUBBASIN RUNOFF DATA

959 BA          SUBBASIN CHARACTERISTICS
                      TAREA        .70  SUBBASIN AREA

960 LG          GREEN AND AMPT LOSS RATE
                      STRTL        .26  STARTING LOSS
                        DTH        .35  MOISTURE DEFICIT
                       PSIF       4.24  WETTING FRONT SUCTION
                      XKSAT        .41  HYDRAULIC CONDUCTIVITY
                      RTIMP      13.00  PERCENT IMPERVIOUS AREA

959 UI          INPUT UNITGRAPH, 36 ORDINATES,  VOLUME = 1.00
                     59.0      76.0     200.0     320.0     406.0     481.0     660.0     503.0     372.0     329.0
                    290.0     254.0     221.0     183.0     150.0     138.0     123.0      97.0      77.0      70.0
                     64.0      49.0      45.0      39.0      29.0      29.0      29.0      18.0      11.0      11.0
                     11.0      11.0      11.0      11.0      11.0      11.0

                                                                ***



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


          ***************
          *             *
966 KK    *        W1   *
          *             *
          ***************
                          BASIN W1
                           THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
                           L=      3.3  Lca=      1.6   S=  522.0  Kn= .050  LAG=  42.0
                           PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN

971 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          4  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


          SUBBASIN RUNOFF DATA

972 BA         SUBBASIN CHARACTERISTICS
                TAREA       3.95  SUBBASIN AREA

973 LG         GREEN AND AMPT LOSS RATE
                STRTL        .30  STARTING LOSS
                  DTH        .35  MOISTURE DEFICIT
                 PSIF       4.24  WETTING FRONT SUCTION
                XKSAT        .40  HYDRAULIC CONDUCTIVITY
                RTIMP      15.00  PERCENT IMPERVIOUS AREA

972 UI         INPUT UNITGRAPH,  38 ORDINATES,  VOLUME = 1.00
              317.0     357.0    1030.0    1615.0    2095.0    2456.0    3182.0    3308.0    2176.0    1862.0
             1658.0    1480.0    1292.0    1120.0     914.0     790.0     722.0     635.0     518.0     405.0
              375.0     347.0     270.0     243.0     223.0     155.0     155.0     155.0     129.0      61.0
               61.0      61.0      61.0      61.0      61.0      61.0      61.0      61.0

                                                    ***

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


         **************
         *            *
979 KK   *     W1-1W  *       Routing thru W2
         *            *
         **************

980 KO         OUTPUT CONTROL VARIABLES
                IPRNT          4  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


          HYDROGRAPH ROUTING DATA

981 RS         STORAGE ROUTING
                NSTPS          6  NUMBER OF SUBREACHES
                 ITYP       FLOW  TYPE OF INITIAL CONDITION
               RSVRIC        .00  INITIAL CONDITION
                    X        .00 WORKING R AND D COEFFICIENT

982 RC         NORMAL DEPTH CHANNEL
                  ANL       .065  LEFT OVERBANK N-VALUE
                 ANCH       .060  MAIN CHANNEL N-VALUE
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                    ANR        .065  RIGHT OVERBANK N-VALUE
                   RLNTH      12140.  REACH LENGTH
                    SEL        .0799  ENERGY SLOPE
                   ELMAX          .0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                    CROSS-SECTION DATA
                          --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
984 RY      ELEVATION      15.00     13.00     12.00     10.00     10.00     12.00     13.00     14.00
983 RX      DISTANCE         .00    100.00    190.00    210.00    232.00    242.00    332.00    432.00

                                              ***

                                    COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

          STORAGE         .00      1.76      3.81      6.14      8.77     11.69     14.89     18.39     22.43     29.37
          OUTFLOW         .00     17.23     56.76    116.00    194.98    294.34    414.98    557.86    738.29    986.55
        ELEVATION       10.00     10.26     10.53     10.79     11.05     11.32     11.58     11.84     12.11     12.37

          STORAGE       39.78     53.67     70.93     91.13    114.22    140.21    168.48    197.75    227.99    259.19
          OUTFLOW     1315.38   1749.20   2314.87   3024.42   3885.96   4911.93   6199.83   7684.42   9341.17  11168.61
        ELEVATION       12.63     12.89     13.16     13.42     13.68     13.95     14.21     14.47     14.74     15.00


*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN     6200. TO    11169.
                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.)


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


          ***************
          *             *
985 KK    *         W2  *
          *             *
          ***************
                      BASIN W2
                       THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
                       L=      2.3  Lca=      1.1   S=  422.0  Kn= .050  LAG=  33.0
                       PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN

990 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          4  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


              SUBBASIN RUNOFF DATA

 1 BA         SUBBASIN CHARACTERISTICS
                     TAREA       2.69  SUBBASIN AREA

992 LG          GREEN AND AMPT LOSS RATE
                     STRTL        .27  STARTING LOSS
```

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                    DTH         .35  MOISTURE DEFICIT
                   PSIF        4.19  WETTING FRONT SUCTION
                  XKSAT         .40  HYDRAULIC CONDUCTIVITY
                  RTIMP        3.00  PERCENT IMPERVIOUS AREA

991 UI          INPUT UNITGRAPH,  30 ORDINATES,  VOLUME = 1.00
                    274.0     522.0    1229.0    1805.0    2237.0    3080.0    1992.0    1608.0    1388.0    1185.0
                    993.0     777.0     656.0     588.0     442.0     351.0     306.0     255.0     210.0     170.0
                    134.0     134.0      99.0      53.0      53.0      53.0      53.0      53.0      53.0      53.0

                                                        ***

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


          **************
          *            *
998 KK    *        1W  *
          *            *
          **************
                         Combining W1 & W2

1000 KO         OUTPUT CONTROL VARIABLES
                     IPRNT           4  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


1001 HC         HYDROGRAPH COMBINATION
                     ICOMP           2  NUMBER OF HYDROGRAPHS TO COMBINE

                                                        ***


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


          **************
          *            *
1002 KK   *        X1  *
          *            *
          **************
                       BASIN X1
                        THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
                        L=      2.3  Lca=      1.4   S=  457.0  Kn= .050  LAG=  35.0
                        PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN

1007 KO         OUTPUT CONTROL VARIABLES
                     IPRNT           4  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


          SUBBASIN RUNOFF DATA

1008 BA        SUBBASIN CHARACTERISTICS
                TAREA        .77  SUBBASIN AREA

1009 LG        GREEN AND AMPT LOSS RATE
                STRTL        .28  STARTING LOSS
                  DTH        .35  MOISTURE DEFICIT
                 PSIF       4.30  WETTING FRONT SUCTION
                XKSAT        .43  HYDRAULIC CONDUCTIVITY
                RTIMP      12.00  PERCENT IMPERVIOUS AREA

1008 UI        INPUT UNITGRAPH,  32 ORDINATES,  VOLUME = 1.00
              74.0    129.0    301.0    465.0    569.0    776.0    674.0    466.0    404.0    351.0
             300.0    248.0    196.0    175.0    151.0    117.0     95.0     82.0     70.0     57.0
              50.0     36.0     36.0     35.0     14.0     14.0     14.0     14.0     14.0     14.0
              14.0     14.0

                                                  ***

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


        **************
        *            *
1015 KK *        Y1  *
        *            *
        **************
                    BASIN Y1
                     THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
                     L=      1.3  Lca=       .5   S=  789.0  Kn= .050  LAG=  17.0
                     PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN

1020 KO        OUTPUT CONTROL VARIABLES
                IPRNT          4  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


          SUBBASIN RUNOFF DATA

  BA           SUBBASIN CHARACTERISTICS
                TAREA        .57  SUBBASIN AREA

1022 LG        GREEN AND AMPT LOSS RATE
                STRTL        .38  STARTING LOSS
                  DTH        .35  MOISTURE DEFICIT
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                PSIF        4.24  WETTING FRONT SUCTION
                XKSAT         .42  HYDRAULIC CONDUCTIVITY
                RTIMP       12.00  PERCENT IMPERVIOUS AREA

 . UI       INPUT UNITGRAPH,  15 ORDINATES,  VOLUME = 1.00
              160.0     607.0    1074.0     802.0     556.0     393.0     270.0     184.0     131.0      88.0
               57.0      43.0      22.0      22.0      22.0

                                                      ***

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


          ***************
          *             *
1026 KK   *      BES3   *       BUCKEYE STRUCTURE NO.3
          *             *
          ***************
                          Combining V1 & W1+W2 & X1 & Y1

1028 KO       OUTPUT CONTROL VARIABLES
                IPRNT           4  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


1029 HC       HYDROGRAPH COMBINATION
                ICOMP           4  NUMBER OF HYDROGRAPHS TO COMBINE

                                                      ***
```

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	A1	559.	4.33	106.	27.	26.	1.11		
ROUTED TO	A1-1A	514.	4.75	106.	27.	26.	1.11		
HYDROGRAPH AT	A2	838.	4.75	171.	43.	41.	1.69		
2 COMBINED AT	1A	1318.	4.75	270.	68.	65.	2.80		
ROUTED TO	1A-2A	1205.	5.42	269.	68.	65.	2.80		
HYDROGRAPH AT	A3	1328.	4.83	271.	68.	65.	3.64		
2 COMBINED AT	2A	1926.	5.25	519.	130.	125.	6.44		
HYDROGRAPH AT	B1	229.	4.42	45.	11.	11.	.55		
ROUTED TO	B1-1B	208.	4.92	44.	11.	11.	.55		
HYDROGRAPH AT	B2	174.	4.58	29.	7.	7.	.49		
2 COMBINED AT	1B	351.	4.75	72.	18.	18.	1.04		
ROUTED TO	1B-2B	241.	6.25	72.	18.	18.	1.04		
HYDROGRAPH AT	B3	825.	4.75	159.	40.	38.	1.97		
2 COMBINED AT	2B	816.	4.75	223.	56.	54.	3.01		
HYDROGRAPH AT	C1	1487.	4.50	395.	101.	97.	3.58		
ROUTED TO	C1-1C	1398.	5.00	392.	101.	97.	3.58		
HYDROGRAPH AT	C2	589.	4.92	129.	32.	31.	1.84		
2 COMBINED AT	1C	1922.	5.00	507.	130.	125.	5.42		
ROUTED TO	1C-2C	1772.	5.67	504.	130.	125.	5.42		
HYDROGRAPH AT	C3	1249.	5.08	312.	78.	75.	3.74		
2 COMBINED AT	2C	2504.	5.58	776.	199.	192.	9.16		
HYDROGRAPH AT	D1	1279.	4.42	222.	55.	53.	2.01		
HYDROGRAPH AT	G1	963.	4.50	171.	43.	41.	1.62		
5 COMBINED AT	RIVER	4364.	4.75	1657.	420.	405.	22.24		
HYDROGRAPH AT	E1	659.	4.42	134.	34.	32.	1.11		
ROUTED TO	E1-1E	628.	4.75	134.	34.	32.	1.11		

HYDROGRAPH AT	E2	1125.	4.58	219.	55.	53.	1.86
2 COMBINED AT	1E	1693.	4.67	344.	86.	83.	2.97
DIVERSION TO	1E-D	0.	.08	0.	0.	0.	2.97
HYDROGRAPH AT	DIV-1E	1693.	4.67	344.	86.	83.	2.97
ROUTED TO	1E-2E	1547.	5.33	342.	86.	83.	2.97
HYDROGRAPH AT	F1	1318.	4.50	320.	81.	78.	2.84
ROUTED TO	F1-1F	1264.	4.83	319.	81.	78.	2.84
HYDROGRAPH AT	F2	1093.	4.58	249.	63.	60.	2.88
2 COMBINED AT	1F	2187.	4.75	550.	140.	135.	5.72
ROUTED TO	1F-2F	2114.	5.00	550.	140.	135.	5.72
HYDROGRAPH AT	F3	65.	4.50	8.	2.	2.	.37
HYDROGRAPH AT	RTV-2F	0.	.08	0.	0.	0.	2.97
3 COMBINED AT	2F	2117.	5.00	553.	141.	135.	6.09
DIVERSION TO	2F-D	0.	.08	0.	0.	0.	6.09
HYDROGRAPH AT	DIV-2F	2117.	5.00	553.	141.	135.	6.09
ROUTED TO	2F-2E	2003.	5.58	552.	141.	135.	6.09
HYDROGRAPH AT	E3	980.	5.00	234.	59.	56.	2.52
HYDROGRAPH AT	F4	838.	4.58	140.	35.	34.	2.25
4 COMBINED AT	2E	3946.	5.33	1149.	291.	280.	13.83
ROUTED TO	2E-3E	3754.	5.92	1145.	291.	280.	13.83
HYDROGRAPH AT	H1	82.	4.75	13.	3.	3.	1.06
HYDROGRAPH AT	RTV-1H	0.	.08	0.	0.	0.	6.09
2 COMBINED AT	1H	82.	4.75	13.	3.	3.	1.06
DIVERSION TO	1H-D	0.	.08	0.	0.	0.	1.06
HYDROGRAPH AT	DIV-1H	82.	4.75	13.	3.	3.	1.06
ROUTED TO	1H-3E	49.	7.00	13.	3.	3.	1.06
HYDROGRAPH AT	E4	255.	4.92	55.	14.	13.	.79
HYDROGRAPH AT	H2	201.	5.08	46.	11.	11.	1.42
4 COMBINED AT	3E	3754.	5.92	1191.	304.	293.	17.10
ROUTED TO	3E-4E	3551.	6.58	1179.	303.	292.	17.10

HYDROGRAPH AT	J1	306.	4.92	64.	16.	15.	1.77
HYDROGRAPH AT	RTV-1J	0.	.08	0.	0.	0.	1.06
2 COMBINED AT	1J	306.	4.92	64.	16.	15.	1.77
DIVERSION TO	1J-D	0.	.08	0.	0.	0.	1.77
HYDROGRAPH AT	DIV-1J	306.	4.92	64.	16.	15.	1.77
ROUTED TO	1J-4E	109.	9.92	48.	16.	15.	1.77
HYDROGRAPH AT	J2	603.	5.50	182.	45.	44.	3.66
HYDROGRAPH AT	K1	747.	4.50	182.	46.	45.	1.54
ROUTED TO	K1-1K	596.	5.67	181.	46.	45.	1.54
HYDROGRAPH AT	K2	729.	5.58	245.	62.	59.	2.42
HYDROGRAPH AT	RTV-1K	0.	.08	0.	0.	0.	1.77
3 COMBINED AT	1K	1266.	5.67	415.	105.	101.	3.96
DIVERSION TO	1K-D	0.	.08	0.	0.	0.	3.96
HYDROGRAPH AT	DIV-1K	1266.	5.67	415.	105.	101.	3.96
ROUTED TO	1K-4E	1055.	7.08	412.	105.	101.	3.96
HYDROGRAPH AT	K3	269.	5.25	69.	17.	17.	1.65
HYDROGRAPH AT	E5	395.	5.00	90.	22.	22.	1.36
6 COMBINED AT	4E	4003.	6.67	1622.	436.	420.	29.50
ROUTED TO	4E-5E	3929.	7.00	1619.	436.	420.	29.50
HYDROGRAPH AT	E6	144.	4.25	20.	5.	5.	.21
2 COMBINED AT	5E	3928.	7.00	1620.	439.	423.	29.71
HYDROGRAPH AT	L1	1581.	4.50	408.	104.	100.	3.48
ROUTED TO	L1-1L	1433.	5.42	405.	104.	100.	3.48
HYDROGRAPH AT	L2	1562.	5.67	513.	128.	124.	7.32
HYDROGRAPH AT	RTV-1L	0.	.08	0.	0.	0.	3.96
3 COMBINED AT	1L	2804.	5.50	876.	222.	214.	10.80
DIVERSION TO	1L-D	0.	.08	0.	0.	0.	10.80
HYDROGRAPH AT	DIV-1L	2804.	5.50	876.	222.	214.	10.80
ROUTED TO	1L-2L	2630.	6.33	873.	222.	214.	10.80
HYDROGRAPH AT	L3	2140.	4.92	484.	121.	116.	6.85

2 COMBINED AT	2L	2643.	6.33	1229.	318.	306.	17.65
HYDROGRAPH AT	M5	327.	4.58	55.	14.	13.	.76
HYDROGRAPH AT	RTVBES	0.	.08	0.	0.	0.	10.80
4 COMBINED AT	BES1	5284.	6.92	2522.	677.	652.	48.12
HYDROGRAPH AT	M1	1454.	4.67	430.	111.	107.	3.32
HYDROGRAPH AT	M2	712.	4.58	200.	52.	50.	1.68
HYDROGRAPH AT	M3	339.	4.25	59.	15.	14.	.54
3 COMBINED AT	1M	2274.	4.58	667.	172.	166.	5.54
ROUTED TO	1M-2M	1945.	6.33	665.	172.	166.	5.54
HYDROGRAPH AT	M4	1423.	5.83	509.	129.	124.	8.18
2 COMBINED AT	2M	2862.	6.25	1101.	282.	272.	13.72
HYDROGRAPH AT	N1	749.	4.33	137.	34.	33.	1.46
ROUTED TO	N1-1N	578.	5.75	136.	34.	33.	1.46
HYDROGRAPH AT	N2	966.	5.50	302.	76.	73.	4.13
2 COMBINED AT	1N	1460.	5.58	424.	107.	103.	5.59
HYDROGRAPH AT	P1	230.	4.08	33.	8.	8.	.37
ROUTED TO	P1-1P	205.	4.42	33.	8.	8.	.37
HYDROGRAPH AT	P2	581.	4.50	132.	33.	32.	1.43
2 COMBINED AT	1P	770.	4.50	163.	41.	40.	1.80
ROUTED TO	1P-2P	664.	5.42	162.	41.	40.	1.80
HYDROGRAPH AT	P3	1072.	4.83	256.	64.	62.	2.76
2 COMBINED AT	2P	1474.	5.08	403.	103.	99.	4.56
HYDROGRAPH AT	Q1	524.	4.33	108.	27.	26.	1.09
ROUTED TO	Q1-1Q	459.	4.92	107.	27.	26.	1.09
HYDROGRAPH AT	Q2	599.	4.83	146.	37.	36.	1.29
2 COMBINED AT	1Q	1020.	4.83	245.	63.	60.	2.38
4 COMBINED AT	BES2W	4293.	5.58	1892.	487.	469.	26.25
HYDROGRAPH AT	R1	199.	4.08	30.	8.	7.	.30
HYDROGRAPH AT	S1	820.	4.42	168.	42.	41.	1.46
HYDROGRAPH AT	T1	1419.	4.58	364.	93.	89.	2.96

HYDROGRAPH AT	U1	850.	4.33	181.	45.	44.	1.39
4 COMBINED AT	BES2E	3017.	4.42	708.	179.	173.	6.11
2 COMBINED AT	BES2	5105.	4.83	2407.	622.	599.	32.36
HYDROGRAPH AT	V1	305.	4.50	72.	18.	18.	.70
HYDROGRAPH AT	W1	1643.	4.50	405.	103.	100.	3.95
ROUTED TO	W1-1W	1533.	4.92	405.	103.	100.	3.95
HYDROGRAPH AT	W2	1116.	4.42	201.	50.	49.	2.69
2 COMBINED AT	1W	2178.	4.67	584.	149.	143.	6.64
HYDROGRAPH AT	X1	340.	4.42	74.	19.	18.	.77
HYDROGRAPH AT	Y1	331.	4.17	55.	14.	13.	.57
4 COMBINED AT	BES3	2793.	4.42	751.	192.	185.	8.68

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

```
**************************************
*                                    *
*  FLOOD HYDROGRAPH PACKAGE  (HEC-1) *
*          SEPTEMBER 1990            *
*           VERSION 4.0              *
*                                    *
* RUN DATE  12/15/1993  TIME  09:24:29 *
*                                    *
**************************************
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```
**************************************
*                                    *
*   U.S. ARMY CORPS OF ENGINEERS     *
*   HYDROLOGIC ENGINEERING CENTER    *
*        609 SECOND STREET           *
*      DAVIS, CALIFORNIA 95616       *
*         (916) 756-1104             *
*                                    *
**************************************
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X     X  XXXXXXX   XXXXX          X
X     X  X        X     X        XX
X     X  X        X              X
XXXXXXX  XXXX     X        XXXXX  X
X     X  X        X              X
X     X  X        X     X        X
X     X  XXXXXXX   XXXXX         XXX
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::::::::::::::::::::::::::::::::::::::::::::
::::::::::::::::::::::::::::::::::::::::::::
:::                                      :::
:::  Full Microcomputer Implementation   :::
:::                 by                   :::
:::        Haestad Methods, Inc.         :::
:::                                      :::
::::::::::::::::::::::::::::::::::::::::::::
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```

37 Brookside Road * Waterbury, Connecticut 06708 * (203) 755-1666

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

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

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

    1     ID   White Tanks Wash Flood Insurance Study - 7-July-93 - JRB
    2     ID   ALPHA Engineering Group Inc. - 5 minute interval - 24 Hour Storm
          *DIAGRAM
    3     ID
    4     IT       5                   300
    5     IO       2
    6     IN      30
          *
    7     JD    4.20    0.01
    8     PC    .000    .005    .011    .016    .022    .028    .035    .041    .048    .056
    9     PC    .063    .071    .080    .089    .098    .109    .120    .133    .147    .163
   10     PC    .181    .204    .235    .283    .663    .735    .772    .799    .820    .838
   11     PC    .854    .868    .880    .891    .902    .912    .921    .929    .937    .945
   12     PC    .952    .959    .965    .972    .978    .984    .989    .995   1.000
          *
   13     JD    4.12       5
   14     JD    3.99      10
   15     JD    3.70      50
   16     JD    3.57     100
   17     JD    3.28     500
          *

   18     KK      A1
   19     KM    BASIN A1
   20     KM     THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
   21     KM     L=      2.0  Lca=       .9   S=  414.0  Kn= .050  LAG=  29.0
   22     KM     PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN
   23     KO                                      22
   24     BA     1.11
   25     KM    RAINFALL DEPTH OF 4.20 WAS SPACIALLY REDUCED AS SHOWN BY THE JD RECORDS
   26     KM    THE PC RECORD USED A 24-HOUR SCS TYPE II RAINFALL
   27     LG     .27     .35    4.19     .39    9.00
   28     UI    129.    316.    682.    941.   1322.   1098.    770.    651.    543.    438.
   29     UI    332.    290.    230.    170.    145.    115.     99.     67.     63.     57.
   30     UI     25.     25.     25.     25.     25.     25.      0.      0.      0.      0.
   31     UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *

   32     KK    A1-1A  Routing thru A2
   33     KO                                      22
   34     RS       5    FLOW      -1
   35     RC    .045    .045    .045   14160 .024011
   36     RX       0      75     125     185     190     220     280     340
   37     RY      27      23      19      10      10      20      26      32
          *

   38     KK      A2
   39     KM    BASIN A2
   40     KM     THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
   41     KM     L=      2.7  Lca=       1.2   S=  127.0  Kn= .060  LAG=  53.0
   42     KM     PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
   43     KO                                      22
   44     BA     1.69
   45     LG      .19     .35    3.77     .30     .00
   46     UI    108.    108.    246.    417.    523.    603.    685.    799.    960.   1282.
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LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

  47      UI  1311.  1060.   912.   799.   682.   582.   500.   366.   238.   187.
  48      UI   177.   126.   108.    85.    33.    33.    33.    33.    33.    33.
  49      UI    33.     0.     0.     0.     0.     0.     0.     0.     0.     0.
  50      UI     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
          *

  51      KK    1A
  52      KM    Combining A1 & A2
  53      KO                              22
  54      HC     2
          *

  55      KK  1A-2A  Routing thru A3
  56      KO                              22
  57      RS     9   FLOW       0
  58      RC  .050   .043   .050  17480 .013158
  59      RX     0     20     30    165    186    346    361    381
  60      RY    20     19     18     10     10     20     21     22
          *

  61      KK    A3
  62      KM  BASIN A3
  63      KM   THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
  64      KM   L=     3.3 Lca=     1.9  S=  69.0 Kn= .045 LAG=  58.0
  65      KM   PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
  66      KO                              22
  67      BA   3.64
  68      LG    .17    .35   4.08    .38    .00
  69      UI   211.   211.   371.   754.   958.  1111.  1247.  1417.  1623.  1981.
  70      UI  2583.  2566.  2106.  1829.  1628.  1405.  1227.  1056.   892.   649.
  71      UI   406.   364.   347.   248.   211.   202.    65.    65.    65.    65.
  72      UI    65.    65.    65.    65.     0.     0.     0.     0.     0.     0.
  73      UI     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
          *

  74      KK    2A
  75      KM    Combining A1+A2 & A3
  76      KO                              22
  77      HC     2
          *

  78      KK    B1
  79      KM  BASIN B1
  80      KM   THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
  81      KM   L=     2.0 Lca=     1.1  S= 289.0 Kn= .050 LAG=  33.0
  82      KM   PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN
  83      KO                              22
  84      BA    .55
  85      LG    .23    .35   4.18    .45   7.00
  86      UI    56.   106.   249.   366.   453.   624.   404.   326.   281.   240.
  87      UI   201.   157.   133.   119.    90.    71.    62.    52.    43.    34.
  88      UI    27.    27.    20.    11.    11.    11.    11.    11.    11.    11.
  89      UI     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
  90      UI     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
          *
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LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

  91      KK   B1-1B  Routing thru B2
  92      KO                                  22
  93      RS     7    FLOW       0
  94      RC  .055    .042    .055   10400 .017308
  95      RX     0      75     140     167     193     226     296     371
  96      RY    20      17      14      10      10      13      17      22
          *

  97      KK     B2
  98      KM   BASIN B2
  99      KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
 100      KM    L=      2.0  Lca=       .9   S=   91.0  Kn= .060  LAG=  45.0
 101      KM    PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
 102      KO                                  22
 103      BA    .49
 104      LG    .18     .35    4.11     .48     .00
 105      UI    36.     36.    119.    164.    198.    231.    275.    363.    455.    379.
 106      UI   313.    267.    222.    184.    146.     89.     63.     60.     38.     36.
 107      UI    14.     11.     11.     11.     11.     11.      0.      0.      0.      0.
 108      UI     0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *

 109      KK     1B
 110      KM     Combining B1 & B2
 111      KO                                  22
 112      HC      2
          *

 113      KK   1B-2B  Routing thru B3
 114      KO                                  22
 115      RS     15    FLOW       0
 116      RC  .050    .055    .048   17140 .013419
 117      RX     0      40     100     130     220     340     390     440
 118      RY    27      25      22      10      10      17      21      25
          *

 119      KK     B3
 120      KM   BASIN B3
 121      KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
 122      KM    L=      3.3  Lca=       1.4  S=   71.0  Kn= .045  LAG=  52.0
 123      KM    PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
 124      KO                                  22
 125      BA   1.97
 126      LG    .17     .35    3.98     .37     .00
 127      UI   128.    128.    305.    506.    630.    724.    830.    966.   1191.   1593.
 128      UI  1480.   1212.   1052.    910.    776.    659.    551.    395.    234.    216.
 129      UI   199.    128.    128.     62.     39.     39.     39.     39.     39.     39.
 130      UI    39.      0.      0.      0.      0.      0.      0.      0.      0.      0.
 131      UI     0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *
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LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

  132     KK     2B
  133     KM     Combining B1+B2 & B3
  134     KO                                    22
  135     HC      2
          *

  136     KK     C1
  137     KM   BASIN C1
  138     KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
  139     KM    L=      3.5  Lca=      1.9   S=  619.0  Kn= .050  LAG=  44.0
  140     KM    PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN
  141     KO                                    22
  142     BA    3.58
  143     LG     .33     .35    4.28     .41    19.00
  144     UI    274.    274.    845.   1300.   1740.   2055.   2488.   3182.   2054.   1694.
  145     UI   1523.   1358.   1207.   1070.    900.    750.    662.    611.    530.    438.
  146     UI    350.    323.    300.    238.    210.    207.    134.    134.    134.    134.
  147     UI     60.     52.     52.     52.     52.     52.     52.     52.     52.     52.
  148     UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
  149     UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *

  150     KK   C1-1C  Routing thru C2
  151     KO                                    22
  152     RS      7    FLOW       0
  153     RC   .050    .044    .050   17760 .019989
  154     RX      0      35      90     138     159     209     264     309
  155     RY     21      19      16      10      10      15      20      24
          *

  156     KK     C2
  157     KM   BASIN C2
  158     KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
  159     KM    L=      3.4  Lca=      1.4   S=  106.0  Kn= .060  LAG=  65.0
  160     KM    PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
  161     KO                                    22
  162     BA    1.84
  163     LG     .18     .35    4.30     .40     .00
  164     UI     95.     95.     98.    319.    389.    460.    523.    576.    650.    732.
  165     UI    865.   1095.   1235.   1029.    890.    794.    716.    622.    556.    482.
  166     UI    423.    323.    229.    169.    160.    157.    100.     95.     95.     34.
  167     UI     29.     29.     29.     29.     29.     29.     29.     29.      0.      0.
  168     UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *

  169     KK     1C
  170     KM     Combining C1 & C2
  171     KO                                    22
  172     HC      2
          *
```

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

  173     KK   1C-2C  Routing thru C3
  174     KO                                  22
  175     RS      9    FLOW       0
  176     RC   .046    .050    .046   21270 .011848
  177     RX      0      60     125     140     172     232     292     352
  178     RY     26      25      23      10      10      16      20      23
          *

  179     KK     C3
  180     KM   BASIN C3
  181     KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
  182     KM    L=      4.0  Lca=      2.2   S=   63.0  Kn= .050  LAG=  75.0
  183     KM    PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
  184     KO                                  22
  185     BA    3.74
  186     LG     .17     .35    3.92     .35     .00
  187     UI    168.    168.    168.    379.    598.    722.    826.    921.   1002.   1104.
  188     UI   1237.   1362.   1642.   2029.   2172.   1833.   1609.   1447.   1330.   1190.
  189     UI   1062.    963.    850.    775.    619.    483.    305.    297.    276.    276.
  190     UI    178.    168.    168.    115.     52.     52.     52.     52.     52.     52.
  191     UI     52.     52.     52.     52.      0.      0.      0.      0.      0.      0.
  192     UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *

  193     KK     2C
  194     KM     Combining C1+C2  &  C3
  195     KO                                  22
  196     HC      2
          *

  197     KK     D1
  198     KM   BASIN D1
  199     KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
  200     KM    L=      1.9  Lca=       .9   S=   65.0  Kn= .045  LAG=  36.0
  201     KM    PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
  202     KO                                  22
  203     BA    2.01
  204     LG     .17     .35    3.50     .28     .00
  205     UI    188.    335.    765.   1005.   1223.   1546.   2251.   2031.   1593.   1289.
  206     UI   1026.    784.    436.    319.    241.    188.     71.     58.     58.     58.
  207     UI     58.      0.      0.      0.      0.      0.      0.      0.      0.      0.
  208     UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

  209     KK     G1
  210     KM   BASIN G1
  211     KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
  212     KM    L=      2.3  Lca=       .8   S=   39.0  Kn= .045  LAG=  40.0
  213     KM    PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
  214     KO                                  22
  215     BA    1.62
  216     LG     .16     .35    3.71     .29     .00
  217     UI    136.    186.    505.    677.    810.    980.   1261.   1713.   1404.   1145.
  218     UI    947.    772.    617.    407.    240.    224.    140.    126.     42.     42.
  219     UI     42.     42.     42.      0.      0.      0.      0.      0.      0.      0.
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LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
  220     UI     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
          *
  221     KK   RIVER   FLOW DIRECTLY INTO THE HASSAYAMPA RIVER
  222     KM     Combining A1+A2+A3 & B1+B2+B3 & C1+C2+C3 & D1 & G1
  223     KO                                    22
  224     HC      5
  225     KM   ********************************************************************************
          *
  226     KK     E1
  227     KM   BASIN E1
  228     KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
  229     KM    L=      1.8  Lca=       .9   S=  244.0  Kn= .055  LAG=  34.0
  230     KM    PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN
  231     KO                                    22
  232     BA    1.11
  233     LG     .22     .37    4.74     .21    1.00
  234     UI    110.    200.    469.    705.    864.   1211.    884.    665.    577.    498.
  235     UI    421.    338.    276.    245.    201.    155.    132.    120.     85.     84.
  236     UI     56.     54.     54.     29.     21.     21.     21.     21.     21.     21.
  237     UI     21.      0.      0.      0.      0.      0.      0.      0.      0.      0.
  238     UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *
  239     KK   E1-1E  Routing thru E2
  240     KO                                    22
  241     RS      5    FLOW       0
  242     RC   .050    .047    .046   11890 .021447
  243     RX      0      65     140     170     185     200     270     340
  244     RY     24      21      17      10      10      14      18      22
          *
  245     KK     E2
  246     KM   BASIN E2
  247     KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
  248     KM    L=      2.3  Lca=       .8   S=  113.0  Kn= .060  LAG=  44.0
  249     KM    PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
  250     KO                                    22
  251     BA    1.86
  252     LG     .18     .37    4.43     .22     .00
  253     UI    142.    142.    488.    653.    792.    924.   1110.   1484.   1792.   1418.
  254     UI   1185.    997.    829.    689.    492.    295.    241.    202.    142.    110.
  255     UI     44.     44.     44.     44.     44.     44.      0.      0.      0.      0.
  256     UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *
  257     KK     1E
  258     KM     Combining E1 & E2
  259     KO                                    22
  260     HC      2
          *
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LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

  261     KK  DIV-1E  DIVERSION AT PARKWAY
  262     DT    1E-D
  263     DI    4035    4057    4094    4149    4228    4377
  264     DQ       0       6      27      67     132     267
          *

  265     KK   1E-2E  Routing thru E3
  266     KO                                      22
  267     RS      10    FLOW       0
  268     RC    .052    .046    .052   20000     .01
  269     RX       0      80     120     160     170     210     250     300
  270     RY      20      17      14      10      10      15      18      20
          *

  271     KK      F1
  272     KM   BASIN F1
  273     KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
  274     KM    L=      3.8  Lca=      1.5   S=  472.0  Kn= .050  LAG=  43.0
  275     KM    PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN
  276     KO                                      22
  277     BA    2.84
  278     LG     .28     .35    3.98     .34   13.00
  279     UI    222.    231.    710.   1093.   1443.   1694.   2119.   2472.   1593.   1339.
  280     UI   1203.   1070.    943.    827.    694.    571.    525.    478.    388.    319.
  281     UI    283.    243.    228.    170.    170.    131.    109.    109.    109.     70.
  282     UI     43.     43.     43.     43.     43.     43.     43.     43.     43.      0.
  283     UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
  284     UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *

  285     KK   F1-1F  Routing thru F2
  286     KO                                      22
  287     RS       5    FLOW       0
  288     RC    .053    .045    .055   18320 .033297
  289     RX       0      60     120     146     178     208     268     328
  290     RY      27      26      25      10      10      24      26      28
          *

  291     KK      F2
  292     KM   BASIN F2
  293     KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
  294     KM    L=      3.5  Lca=      1.5   S=  176.0  Kn= .050  LAG=  50.0
  295     KM    PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN
  296     KO                                      22
  297     BA    2.88
  298     LG     .20     .35    4.03     .35    2.00
  299     UI    194.    194.    449.    770.   1096.   1314.   1498.   1817.   2283.   1541.
  300     UI   1245.   1124.   1016.    925.    825.    745.    638.    539.    481.    449.
  301     UI    410.    336.    290.    248.    227.    212.    181.    149.    149.    122.
  302     UI     95.     95.     95.     95.     49.     37.     37.     37.     37.     37.
  303     UI     37.     37.     37.     37.     37.     37.      0.      0.      0.      0.
  304     UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *
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LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

  305     KK      1F
  306     KM      Combining F1 & F2
  307     KO                                      22
  308     HC       2
          *

  309     KK   1F-2F  Routing thru F3
  310     KO                                      22
  311     RS       4    FLOW       0
  312     RC    .050    .047    .048    6680 .012575
  313     RX       0      70     145     175     192     219     289     359
  314     RY      16      15      13      10      10      12      14      16
          *

  315     KK      F3
  316     KM   BASIN F3
  317     KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
  318     KM    L=      1.3  Lca=       .6   S=   66.0  Kn= .060  LAG=  36.0
  319     KM    PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
  320     KO                                      22
  321     BA     .37
  322     LG     .17     .35    3.30     .82     .00
  323     UI     35.     62.    142.    187.    227.    287.    418.    377.    296.    240.
  324     UI    191.    146.     81.     59.     45.     35.     13.     11.     11.     11.
  325     UI     11.      0.      0.      0.      0.      0.      0.      0.      0.      0.
  326     UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *

  327     KK  RTV-2F  Retrieve diversion
  328     DR    1E-D
          *

  329     KK      2F
  330     KM      Combining F1+F2 & F3 & 1E-D
  331     KO                                      22
  332     HC       3
          *

  333     KK  DIV-2F  Divert 2F-D
  334     DT    2F-D
  335     DI    2559    2641    2737    2851    2990    3190    3346    3510    3681    3860
  336     DQ       0       7      31      77     150     288     384     489     605     729
          *

  337     KK   2F-2E  Routing thru F4
  338     KO                                      22
  339     RS       9    FLOW       0
  340     RC    .050    .044    .050   14310 .013697
  341     RX       0      70     150     190     205     235     310     390
  342     RY      15      14      13      10      10    12.5    14.5    16.5
          *
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LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

  343     KK     E3
  344     KM   BASIN E3
  345     KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
  346     KM    L=      3.5  Lca=      2.0   S=   57.0  Kn= .050  LAG=  69.0
  347     KM    PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
  348     KO                                    22
  349     BA    2.52
  350     LG     .17     .35    3.87     .32     .00
  351     UI    123.    123.    123.    354.    464.    577.    642.    707.    784.    889.
  352     UI    986.   1196.   1510.   1542.   1291.   1129.   1016.    923.    809.    725.
  353     UI    634.    577.    455.    347.    217.    213.    202.    177.    123.    123.
  354     UI    111.     38.     38.     38.     38.     38.     38.     38.     38.     38.
  355     UI     38.      0.      0.      0.      0.      0.      0.      0.      0.      0.
  356     UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *

  357     KK     F4
  358     KM   BASIN F4
  359     KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
  360     KM    L=      2.7  Lca=       .9   S=   72.0  Kn= .050  LAG=  45.0
  361     KM    PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
  362     KO                                    22
  363     BA    2.25
  364     LG     .17     .35    4.23     .44     .00
  365     UI    169.    169.    555.    760.    921.   1072.   1277.   1687.   2115.   1760.
  366     UI   1455.   1242.   1033.    857.    678.    415.    294.    277.    174.    169.
  367     UI     66.     52.     52.     52.     52.     52.      0.      0.      0.      0.
  368     UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *

  369     KK     2E
  370     KM     Combining E1+E2 & E3 & F1+F2+F3+F4
  371     KO                                    22
  372     HC      4
          *

  373     KK   2E-3E  Routing thru E4
  374     KO                                    22
  375     RS      7    FLOW       0
  376     RC   .056    .049    .056   11000    .006
  377     RX      0      60     180     225     237     272     422     472
  378     RY     21      18      14      10      10      14      18      21
          *

  379     KK     H1
  380     KM   BASIN H1
  381     KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
  382     KM    L=      2.2  Lca=      1.0   S=   70.0  Kn= .060  LAG=  52.0
  383     KM    PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
  384     KO                                    22
  385     BA    1.06
  386     LG     .17     .35    3.07     .93     .00
  387     UI     69.     69.    164.    272.    339.    389.    447.    520.    641.    857.
  388     UI    796.    652.    566.    489.    417.    354.    296.    212.    126.    116.
```

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

389       UI   107.    69.    69.    33.    21.    21.    21.    21.    21.    21.
390       UI    21.     0.     0.     0.     0.     0.     0.     0.     0.     0.
391       UI     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
          *

392       KK  RTV-1H  Retrieve Divert 2F-D
393       DR    2F-D
          *

394       KK  D2F-2H  Routing DIV-2F to 1H
395       KO       0                          22
396       RS       4    FLOW       0
397       RC    .060    .050    .045    2600  .00157
398       RX       0      40      42      62     112     132     152     172
399       RY      17      16      15      10      10      15      16      17
          *

400       KK      1H
401       KM      Combining H1 & 2F-D
402       KO                                 22
403       HC       2
          *

404       KK  DIV-1H  Divert 1H-D
405       DT    1H-D
406       DI    2183    2284    2413    2590    2823    3198    3307    3478
407       DQ       0      17      76     192     369     693     783     926
          *

408       KK   1H-3E  Routing thru H2
409       KO                                 22
410       RS      18    FLOW       0
411       RC    .053    .050    .053   19810 .010045
412       RX       0     110     210     245     275     310     410     520
413       RY      15      14      12      10      10      12      14      15
          *

414       KK      E4
415       KM   BASIN E4
416       KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
417       KM    L=      2.8  Lca=      1.4   S=   28.0  Kn= .050  LAG=  64.0
418       KM    PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
419       KO                                 22
420       BA     .79
421       LG     .17     .34    4.28     .42     .00
422       UI     41.     41.     47.    139.    171.    202.    228.    253.    286.    322.
423       UI    388.    495.    521.    431.    374.    336.    298.    261.    231.    202.
424       UI    172.    127.     83.     72.     68.     59.     41.     41.     30.     13.
425       UI     13.     13.     13.     13.     13.     13.     13.     13.      0.      0.
426       UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *
```

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

427       KK     H2
428       KM   BASIN H2
429       KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
430       KM    L=      3.8  Lca=      2.2   S=   53.0  Kn= .050  LAG=  75.0
431       KM    PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
432       KO                                    22
433       BA    1.42
434       LG     .17     .35    3.64     .69     .00
435       UI     64.     64.     64.    144.    227.    274.    314.    350.    381.    420.
436       UI    470.    518.    624.    771.    825.    696.    611.    550.    506.    452.
437       UI    403.    366.    323.    294.    235.    184.    116.    113.    105.    105.
438       UI     68.     64.     64.     44.     20.     20.     20.     20.     20.     20.
439       UI     20.     20.     20.     20.      0.      0.      0.      0.      0.      0.
440       UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *

441       KK     3E
442       KM     Combining E1+E2+E3+F1+F2+F3+F4 & E4 & H1 & H2
443       KO                                    22
444       HC      4
          *

445       KK   3E-4E  Routing thru E5
446       KO                                    22
447       RS      9    FLOW       0
448       RC   .060    .050    .060   15000   .0045
449       RX      0      60     130     140     160     170     240     300
450       RY     25      17      15      10      10      14      16      24
          *

451       KK     J1
452       KM   BASIN J1
453       KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
454       KM    L=      3.3  Lca=      1.4   S=   88.0  Kn= .060  LAG=  66.0
455       KM    PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
456       KO                                    22
457       BA    1.77
458       LG     .17     .35    3.71     .65     .00
459       UI     91.     91.     91.    292.    364.    432.    492.    540.    605.    686.
460       UI    791.    999.   1180.   1014.    869.    772.    699.    612.    545.    477.
461       UI    427.    340.    252.    160.    156.    149.    118.     91.     91.     60.
462       UI     28.     28.     28.     28.     28.     28.     28.     28.     28.      0.
463       UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
464       UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *

465       KK  RTV-1J  Retrieve Divert 1H-D
466       DR    1H-D
          *
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LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

  467     KK      1J
  468     KM      Combining J1 & 1H-D
  469     KO                                      22
  470     HC       2
          *

  471     KK  DIV-1J  Divert 1J-D
  472     DT    1J-D
  473     DI    1716    1882    2074    2317    3047    2915
  474     DQ       0      18      79     203     348     628
          *

  475     KK   1J-4E  Routing thru J2
  476     KO                                      22
  477     RS      45    FLOW       0
  478     RC    .052    .065    .053   28445 .008578
  479     RX       0      40      80      90     320     330     370     410
  480     RY      13      12      11      10      10      11      12      13
          *

  481     KK      J2
  482     KM   BASIN J2
  483     KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
  484     KM    L=      5.4  Lca=      3.1   S=   45.0  Kn= .050  LAG= 102.0
  485     KM    PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
  486     KO                                      22
  487     BA    3.66
  488     LG     .17     .35    4.09     .51     .00
  489     UI    121.    121.    121.    121.    206.    397.    455.    524.    578.    628.
  490     UI    671.    718.    769.    829.    908.    965.   1094.   1304.   1454.   1602.
  491     UI   1407.   1260.   1149.   1063.    994.    939.    852.    788.    730.    675.
  492     UI    615.    575.    515.    438.    347.    269.    214.    214.    199.    198.
  493     UI    192.    121.    121.    121.    121.     89.     37.     37.     37.     37.
  494     UI     37.     37.     37.     37.     37.     37.     37.     37.     37.     37.
  495     UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
  496     UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

  497     KK      K1
  498     KM   BASIN K1
  499     KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
  500     KM    L=      3.1  Lca=      1.8   S=  759.0  Kn= .050  LAG=  39.0
  501     KM    PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN
  502     KO                                      22
  503     BA    1.54
  504     LG     .37     .35    4.03     .36   17.00
  505     UI    133.    184.    468.    744.    936.   1126.   1522.   1032.    816.    722.
  506     UI    637.    551.    473.    382.    328.    297.    251.    200.    170.    146.
  507     UI    131.    102.    102.     65.     65.     65.     52.     25.     25.     25.
  508     UI     25.     25.     25.     25.     25.     25.      0.      0.      0.      0.
  509     UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *
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LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

510       KK   K1-1K  Routing thru K2
511       KO                                  22
512       RS     17    FLOW       0
513       RC   .048    .050    .048   28440 .027602
514       RX      0      20      55      85     235     259     289     309
515       RY     22      21      20      10      10      20      21      22
          *

516       KK     K2
517       KM   BASIN K2
518       KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
519       KM    L=      5.4  Lca=      3.8   S=  146.0  Kn= .060  LAG= 106.0
520       KM    PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
521       KO                                  22
522       BA    2.42
523       LG     .19     .35    3.77     .30    1.00
524       UI     77.     77.     77.     77.     99.    252.    279.    316.    360.    387.
525       UI    419.    442.    470.    508.    552.    589.    635.    735.    875.    955.
526       UI    994.    876.    789.    723.    671.    630.    597.    543.    503.    470.
527       UI    435.    396.    371.    343.    294.    229.    204.    136.    136.    132.
528       UI    126.    126.    103.     77.     77.     77.     77.     45.     24.     24.
529       UI     24.     24.     24.     24.     24.     24.     24.     24.     24.     24.
530       UI     24.     24.     24.      0.      0.      0.      0.      0.      0.      0.
531       UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *

532       KK  RTV-1K  Retrieve Divert
533       DR    1J-D
          *

534       KK     1K
535       KM     Combining K1 & K2 & IJ-D
536       KO                                  22
537       HC      3
          *

538       KK  DIV-1K  Divert 1K-D
539       DT    1K-D
540       DI    2699    2849    3014    3203    3425    3670
541       DQ       0      10      44     109     213     371
          *

542       KK   1K-4E  Routing thru K3
543       KO                                  22
544       RS     18    FLOW       0
545       RC   .050    .048    .050   23874 .009131
546       RX       0      90     190     202     220     232     332     422
547       RY    16.5    14.5    11.5      10      10    11.5    14.5    16.5
          *
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LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

548       KK     K3
549       KM   BASIN K3
550       KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
551       KM    L=      4.5  Lca=      2.4   S=   48.0  Kn= .050  LAG=  85.0
552       KM    PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
553       KO                                    22
554       BA    1.65
555       LG     .16     .35    3.85     .60     .00
556       UI     65.     65.     65.     79.    215.    247.    296.    327.    359.    385.
557       UI    419.    465.    505.    567.    695.    804.    841.    719.    639.    580.
558       UI    536.    495.    444.    405.    369.    331.    307.    258.    198.    153.
559       UI    116.    114.    108.    108.     70.     65.     65.     65.     21.     20.
560       UI     20.     20.     20.     20.     20.     20.     20.     20.     20.     20.
561       UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
562       UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *

563       KK     E5
564       KM   BASIN E5
565       KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
566       KM    L=      2.9  Lca=      1.6   S=   26.0  Kn= .050  LAG=  69.0
567       KM    PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
568       KO                                    22
569       BA    1.36
570       LG     .18     .34    4.30     .43     .00
571       UI     66.     66.     66.    191.    250.    311.    346.    381.    422.    479.
572       UI    531.    644.    814.    831.    696.    608.    547.    497.    436.    391.
573       UI    341.    311.    245.    187.    117.    115.    109.     95.     66.     66.
574       UI     60.     20.     20.     20.     20.     20.     20.     20.     20.     20.
575       UI     20.      0.      0.      0.      0.      0.      0.      0.      0.      0.
576       UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *

577       KK     4E
578       KM     Combining E1+E2+E3+E4+F1+F2+F3+F4+H1+H2 & J1 & K1+K2 & E5 & J2 & K3
579       KO                                    22
580       HC      6
          *

581       KK   4E-5E  Routing thru E6
582       KO                                    22
583       RS      4    FLOW       0
584       RC   .063    .051    .063    5000    .006
585       RX      0     150     280     290     330     340     530     680
586       RY     17      13      13      10      10      12      12      17
          *

587       KK     E6
588       KM   BASIN E6
589       KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
590       KM    L=       .5  Lca=       .5   S=   34.0  Kn= .050  LAG=  22.0
591       KM    PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
592       KO                                    22
593       BA     .21
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LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

  594     LG    .17    .34   3.92    .35    .00
  595     UI    33.   131.   196.   297.   368.   250.   174.    90.    51.    29.
  596     UI    10.    10.    10.     0.     0.     0.     0.     0.     0.     0.
  597     UI     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
          *

  598     KK     5E
  599     KM     Combining E1+E2+E3+E4+F1+F2+F3+F4+H1 & J1 & K1+K2 & E5 & H2 & J2 & K3 & E6
  600     KO                                22
  601     HC      2
          *
  602     KM    ****************** BASIC STUDY - COMBINED STREAM FLOW **********************
          *

  603     KK     L1
  604     KM   BASIN L1
  605     KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
  606     KM    L=      4.0  Lca=      1.6   S=  450.0  Kn= .050  LAG=  46.0
  607     KM    PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN
  608     KO                                22
  609     BA    3.48
  610     LG     .28    .35   3.92    .34  15.00
  611     UI    255.   255.   713.  1133.  1568.  1848.  2155.  2898.  2287.  1685.
  612     UI   1488.  1335.  1207.  1062.   940.   800.   659.   607.   559.   476.
  613     UI    399.   326.   300.   279.   227.   195.   195.   135.   125.   125.
  614     UI    125.    84.    49.    49.    49.    49.    49.    49.    49.    49.
  615     UI     49.    49.     0.     0.     0.     0.     0.     0.     0.     0.
  616     UI      0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
          *

  617     KK   L1-1L  Routing thru L2
  618     KO                                22
  619     RS     12    FLOW       0
  620     RC   .046    .045    .046   30784 .020335
  621     RX      0      80     165     200     215     255     340     420
  622     RY     19      17      14      10      10      14      18      22
          *

  623     KK     L2
  624     KM   BASIN L2
  625     KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
  626     KM    L=      5.8  Lca=      2.7   S=  107.0  Kn= .065  LAG= 109.0
  627     KM    PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
  628     KO                                22
  629     BA    7.32
  630     LG     .18    .35   4.14    .38    .00
  631     UI    226.   226.   226.   226.   226.   735.   799.   892.  1044.  1110.
  632     UI   1214.  1281.  1358.  1449.  1562.  1698.  1790.  2004.  2303.  2693.
  633     UI   3013.  2767.  2470.  2247.  2075.  1941.  1825.  1719.  1576.  1463.
  634     UI   1359.  1266.  1157.  1086.  1004.   866.   671.   611.   400.   400.
  635     UI    391.   371.   371.   332.   226.   226.   226.   226.   186.    69.
  636     UI     69.    69.    69.    69.    69.    69.    69.    69.    69.    69.
  637     UI     69.    69.    69.    69.    69.     0.     0.     0.     0.     0.
  638     UI      0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
          *
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LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

  639     KK  RTV-1L  Retrieve Divert 1K-D
  640     DR    1K-D
          *

  641     KK      1L
  642     KM      Combining L1 & L2 & IK-D
  643     KO                                      22
  644     HC       3
          *

  645     KK  DIV-1L  Divert 1L-D
  646     DT    1L-D
  647     DI    6842    6967    7130    7361    7585    7889
  648     DQ       0      21      96     251     418     670
          *

  649     KK   1L-2L  Routing thru L3
  650     KO                                      22
  651     RS      13    FLOW       0
  652     RC    .048    .070    .042   17310 .012998
  653     RX       0     260     330     332     348     350     420     680
  654     RY      16      12    11.3      10      10    11.3      12      16
          *

  655     KK      L3
  656     KM   BASIN L3
  657     KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
  658     KM    L=      3.3  Lca=      1.6   S=   69.0  Kn= .055  LAG=  67.0
  659     KM    PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
  660     KO                                      22
  661     BA    6.85
  662     LG     .23     .30    4.19     .40     .00
  663     UI    344.    344.    344.   1066.   1362.   1634.   1848.   2030.   2265.   2560.
  664     UI   2913.   3720.   4385.   4003.   3399.   3011.   2729.   2413.   2131.   1888.
  665     UI   1665.   1421.   1052.    709.    609.    566.    539.    344.    344.    335.
  666     UI    106.    106.    106.    106.    106.    106.    106.    106.    106.    106.
  667     UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
  668     UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *

  669     KK      2L
  670     KM      Combining L1+L2 & L3
  671     KO                                      22
  672     HC       2
          *

  673     KK      M5
  674     KM   BASIN M5
  675     KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
  676     KM    L=      2.1  Lca=       .7   S=   51.0  Kn= .055  LAG=  44.0
  677     KM    PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
  678     KO                                      22
  679     BA     .76
  680     LG     .18     .34    4.24     .41     .00
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LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

681       UI     58.    58.   200.   268.   325.   379.   455.   609.   735.   582.
682       UI    486.   409.   340.   283.   202.   121.    99.    83.    58.    45.
683       UI     18.    18.    18.    18.    18.    18.     0.     0.     0.     0.
684       UI      0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
          *

685       KK  RTVBES  Retreive Divert 1L-D
686       DR    1L-D
          *

687       KK    BES1  BUCKEYE STRUCTURE NO. 1
688       KM      Combining 5E & L1+L2 & M5 & IL-D
689       KO                                  22
690       HC       4
691       KM  ********************************************************************************
          *

692       KK      M1
693       KM   BASIN M1
694       KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
695       KM    L=      4.2  Lca=      2.6   S=  368.0  Kn= .050  LAG=  58.0
696       KM    PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN
697       KO                                  22
698       BA    3.32
699       LG     .25    .35   3.77    .31   17.00
700       UI    193.   193.   312.   628.   871.  1160.  1324.  1478.  1723.  2214.
701       UI   1896.  1372.  1188.  1104.  1009.   929.   849.   769.   693.   611.
702       UI    514.   474.   447.   415.   367.   316.   261.   246.   222.   211.
703       UI    194.   148.   148.   148.   106.    94.    94.    94.    94.    75.
704       UI     37.    37.    37.    37.    37.    37.    37.    37.    37.    37.
705       UI     37.    37.    37.     0.     0.     0.     0.     0.     0.     0.
706       UI      0.     0.     0.     0.     0.     0.     0.     0.     0.     0.

707       KK      M2
708       KM   BASIN M2
709       KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
710       KM    L=      3.8  Lca=      1.9   S=  398.0  Kn= .050  LAG=  49.0
711       KM    PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN
712       KO                                  22
713       BA    1.68
714       LG     .26    .35   4.30    .40   20.00
715       UI    116.   116.   278.   473.   672.   797.   906.  1134.  1326.   861.
716       UI    723.   658.   591.   537.   477.   423.   365.   301.   278.   259.
717       UI    230.   190.   154.   146.   127.   126.    89.    89.    86.    57.
718       UI     57.    57.    57.    40.    22.    22.    22.    22.    22.    22.
719       UI     22.    22.    22.    22.    22.     0.     0.     0.     0.     0.
720       UI      0.     0.     0.     0.     0.     0.     0.     0.     0.     0.

721       KK      M3
722       KM   BASIN M3
723       KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
724       KM    L=      1.2  Lca=       .6   S=  478.0  Kn= .050  LAG=  21.0
725       KM    PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN
726       KO                                  22
727       BA     .54
```

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

728       LG    .29    .35   3.87    .34   9.00
729       UI    91.   359.   618.   881.   548.   426.   327.   231.   184.   125.
730       UI    98.    70.    51.    42.    26.    16.    16.    16.    16.     0.
731       UI     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
732       UI     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
          *

733       KK     1M
734       KM     Combining M1 & M2 & M3
735       KO                                  22
736       HC      3
          *

737       KK   1M-2M  Routing thru M4
738       KO                                  22
739       RS     24    FLOW      0
740       RC   .047    .042   .047   36390 .015224
741       RX      0     110    240     252     262     274     404     514
742       RY     15      14     13      10      10      12      15      17
          *

743       KK     M4 .
744       KM   BASIN M4
745       KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
746       KM    L=      6.9  Lca=      2.6   S=   80.0  Kn= .065  LAG= 122.0
747       KM    PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
748       KO                                  22
749       BA    8.18
750       LG     .17    .35   4.30    .42   1.00
751       UI    226.   226.   226.   226.   226.   426.   742.   826.   903.  1039.
752       UI   1105.  1192.  1255.  1319.  1393.  1488.  1603.  1705.  1791.  1990.
753       UI   2252.  2623.  2848.  2960.  2638.  2399.  2211.  2060.  1947.  1834.
754       UI   1754.  1624.  1504.  1412.  1334.  1240.  1148.  1087.  1029.   866.
755       UI    737.   649.   489.   400.   400.   386.   371.   371.   363.   226.
756       UI    226.   226.   226.   226.   157.    69.    69.    69.    69.    69.
757       UI     69.    69.    69.    69.    69.    69.    69.    69.    69.    69.
758       UI     69.    69.     0.     0.     0.     0.     0.     0.     0.     0.
759       UI      0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
          *

760       KK     2M
761       KM     Combining M1+M2+M3 & M4
762       KO                                  22
763       HC      2
          *

764       KK     N1
765       KM   BASIN N1
766       KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
767       KM    L=      2.0  Lca=       .8   S=  465.0  Kn= .050  LAG=  27.0
768       KM    PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN
769       KO                                  22
770       BA    1.46
771       LG     .28    .35   4.19    .38   8.00
772       UI    183.   499.  1049.  1415.  1971.  1250.  1004.   834.   674.   504.
```

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

 773      UI   423.   337.   247.   206.   159.   136.    89.    89.    60.    35.
 774      UI    35.    35.    35.    35.     0.     0.     0.     0.     0.     0.
 775      UI     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
          *

 776      KK   N1-1N  Routing thru N2
 777      KO                              22
 778      RS     17   FLOW       0
 779      RC   .050   .047   .050  26520 .018401
 780      RX      0     70    140    148    157    171    241    311
 781      RY     14     13   11.5     10     10   11.5     13     14
          *

 782      KK     N2
 783      KM   BASIN N2
 784      KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
 785      KM    L=      5.0  Lca=      2.4   S=   97.0  Kn= .065  LAG= 101.0
 786      KM    PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
 787      KO                              22
 788      BA    4.13
 789      LG     .18    .35   4.14    .39   1.00
 790      UI    138.   138.   138.   138.   249.   453.   524.   605.   663.   722.
 791      UI    772.   825.   883.   961.  1041.  1118.  1281.  1548.  1684.  1790.
 792      UI   1571.  1406.  1286.  1194.  1115.  1046.   955.   876.   817.   748.
 793      UI    687.   643.   553.   456.   396.   254.   244.   238.   226.   226.
 794      UI    184.   138.   138.   138.   138.    58.    42.    42.    42.    42.
 795      UI     42.    42.    42.    42.    42.    42.    42.    42.    42.    42.
 796      UI      0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
 797      UI      0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
          *

 798      KK     1N
 799      KM     Combining N1 & N2
 800      KO                              22
 801      HC      2
          *

 802      KK     P1
 803      KM   BASIN P1
 804      KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
 805      KM    L=       .8  Lca=       .5   S=  844.0  Kn= .050  LAG=  14.0
 806      KM    PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN
 807      KO                              22
 808      BA     .37
 809      LG     .39    .35   4.19    .39   8.00
 810      UI    159.   576.   810.   467.   311.   201.   121.    80.    50.    32.
 811      UI     17.    17.     0.     0.     0.     0.     0.     0.     0.     0.
 812      UI      0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
          *
```

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

  813     KK   P1-1P  Routing thru P2
  814     KO                                    22
  815     RS      4    FLOW       0
  816     RC   .048    .068    .048   13340 .080510
  817     RX      0      60     120     134     144     158     218     278
  818     RY     26      25      24      10      10      26      27      28
          *

  819     KK     P2
  820     KM   BASIN P2
  821     KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
  822     KM    L=      2.5  Lca=      2.0   S=  425.0  Kn= .050  LAG=  42.0
  823     KM    PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN
  824     KO                                    22
  825     BA    1.43
  826     LG     .27     .35    4.19     .40    9.00
  827     UI    114.    129.    373.    584.    758.    888.   1151.   1196.    787.    673.
  828     UI    600.    535.    467.    405.    330.    286.    261.    230.    187.    146.
  829     UI    136.    125.     98.     88.     81.     56.     56.     56.     47.     22.
  830     UI     22.     22.     22.     22.     22.     22.     22.     22.      0.      0.
  831     UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *

  832     KK     1P
  833     KM     Combining P1 & P2
  834     KO                                    22
  835     HC      2
          *

  836     KK   1P-2P   Routing thru P3
  837     KO                                    22
  838     RS     12    FLOW       0
  839     RC   .053    .047    .052   19430 .024498
  840     RX      0     110     230     235     243     248     368     478
  841     RY     17      15      13      10      10      12      15      17
          *

  842     KK     P3
  843     KM   BASIN P3
  844     KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
  845     KM    L=      3.7  Lca=      1.2   S=  129.0  Kn= .060  LAG=  61.0
  846     KM    PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
  847     KO                                    22
  848     BA    2.76
  849     LG     .19     .35    4.08     .38    7.00
  850     UI    153.    153.    220.    529.    656.    776.    869.    973.   1117.   1277.
  851     UI   1646.   1961.   1701.   1442.   1277.   1141.    985.    869.    755.    640.
  852     UI    468.    300.    265.    251.    199.    153.    153.     76.     47.     47.
  853     UI     47.     47.     47.     47.     47.     47.      0.      0.      0.      0.
  854     UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *
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LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

 855      KK     2P
 856      KM     Combining P1+P2 & P3
 857      KO                                22
 858      HC      2
          *

 859      KK     Q1
 860      KM   BASIN Q1
 861      KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
 862      KM    L=      2.2  Lca=      1.0   S=  471.0  Kn= .050  LAG=  31.0
 863      KM    PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN
 864      KO                                22
 865      BA    1.09
 866      LG     .28     .35    4.24     .41   12.00
 867      UI    118.    254.    577.    817.   1056.   1224.    767.    647.    551.    461.
 868      UI    362.    293.    259.    202.    152.    132.    107.     91.     67.     58.
 869      UI     58.     30.     23.     23.     23.     23.     23.     23.      0.      0.
 870      UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *

 871      KK   Q1-1Q  Routing through Q2
 872      KO                                22
 873      RS      6    FLOW       0
 874      RC   .060    .058    .060   14377 .024205
 875      RX      0      80     170     179     186     216     306     386
 876      RY     17      15      13      10      10      14      21      27
          *

 877      KK     Q2
 878      KM   BASIN Q2
 879      KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
 880      KM    L=      2.7  Lca=      1.4   S=  128.0  Kn= .060  LAG=  58.0
 881      KM    PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN
 882      KO                                22
 883      BA    1.29
 884      LG     .19     .35    3.98     .35   11.00
 885      UI     75.     75.    132.    268.    341.    395.    443.    504.    577.    704.
 886      UI    918.    912.    749.    650.    579.    500.    436.    376.    317.    231.
 887      UI    144.    129.    123.     88.     75.     72.     23.     23.     23.     23.
 888      UI     23.     23.     23.     23.      0.      0.      0.      0.      0.      0.
 889      UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *

 890      KK     1Q
 891      KM     Combining Q1 & Q2
 892      KO                                22
 893      HC      2
          *
```

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

  894     KK  BES2W  BUCKEYE STRUCTURE NO. 2 - WESTERN OR LOWER PORTION
  895     KM     Combining  M1+M2+M3+M4 & P1+P2+P3 & Q1+Q2
  896     KO                                22
  897     HC      4
  898     KM                  ************************************
          *

  899     KK     R1
  900     KM  BASIN R1
  901     KM   THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
  902     KM   L=       .9  Lca=       .4   S=  285.0  Kn= .050  LAG=  16.0
  903     KM   PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN
  904     KO                                22
  905     BA    .30
  906     LG    .23     .35    3.98     .35    6.00
  907     UI    94.    358.    608.    392.    281.    187.    132.     83.     58.     38.
  908     UI    30.     12.     12.     12.      0.      0.      0.      0.      0.      0.
  909     UI     0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

  910     KK     S1
  911     KM  BASIN S1
  912     KM   THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
  913     KM   L=      2.4  Lca=       .7   S=  140.0  Kn= .050  LAG=  33.0
  914     KM   PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN
  915     KO                                22
  916     BA   1.46
  917     LG    .19     .35    3.77     .31    7.00
  918     UI   149.    284.    668.    981.   1216.   1674.   1082.    874.    754.    644.
  919     UI   540.    422.    356.    320.    240.    191.    166.    138.    114.     92.
  920     UI    73.     73.     54.     29.     29.     29.     29.     29.     29.     29.
  921     UI     0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
  922     UI     0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

  923     KK     T1
  924     KM  BASIN T1
  925     KM   THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
  926     KM   L=      3.9  Lca=      1.6   S=  304.0  Kn= .050  LAG=  49.0
  927     KM   PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN
  928     KO                                22
  929     BA   2.96
  930     LG    .24     .35    3.61     .29   10.00
  931     UI   204.    204.    489.    832.   1183.   1403.   1595.   1997.   2334.   1516.
  932     UI  1272.   1158.   1040.    945.    840.    745.    642.    530.    490.    456.
  933     UI   406.    335.    271.    257.    223.    221.    156.    156.    151.    100.
  934     UI   100.    100.    100.     70.     39.     39.     39.     39.     39.     39.
  935     UI    39.     39.     39.     39.     39.      0.      0.      0.      0.      0.
  936     UI     0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

  937     KK     U1
  938     KM  BASIN U1
  939     KM   THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
  940     KM   L=      2.1  Lca=      1.1   S=  377.0  Kn= .050  LAG=  32.0
  941     KM   PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN
  942     KO                                22
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LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

 943      BA    1.39
 944      LG     .26     .37    4.74     .22    8.00
 945      UI    147.    294.    688.    987.   1245.   1598.   1002.    831.    714.    602.
 946      UI    493.    381.    338.    278.    212.    177.    159.    112.    107.     72.
 947      UI     72.     67.     28.     28.     28.     28.     28.     28.     28.      0.
 948      UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
 949      UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *

 950      KK   BES2E   BUCKEYE STRUCTURE NO. 2 - EASTERN OR UPPER PORTION
 951      KM     Combining  R1 & S1 & T1 & U1
 952      KO                                    22
 953      HC      4
          *

 954      KK    BES2   BUCKEYE STRUCTURE NO. 2 - COMBINED
 955      KM     Combining BES2W & BES2E
 956      KO                                    22
 957      HC      2
 958      KM   ********************************************************************************
          *

 959      KK     V1
 960      KM   BASIN V1
 961      KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
 962      KM    L=      2.7  Lca=      1.6   S=  389.0  Kn= .050  LAG=  40.0
 963      KM    PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN
 964      KO                                    22
 965      BA     .70
 966      LG     .26     .35    4.24     .41   13.00
 967      UI     59.     76.    200.    320.    406.    481.    660.    503.    372.    329.
 968      UI    290.    254.    221.    183.    150.    138.    123.     97.     77.     70.
 969      UI     64.     49.     45.     39.     29.     29.     29.     18.     11.     11.
 970      UI     11.     11.     11.     11.     11.     11.      0.      0.      0.      0.
 971      UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

 972      KK     W1
 973      KM   BASIN W1
 974      KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
 975      KM    L=      3.3  Lca=      1.6   S=  522.0  Kn= .050  LAG=  42.0
 976      KM    PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN
 977      KO                                    22
 978      BA    3.95
 979      LG     .30     .35    4.24     .40   15.00
 980      UI    317.    357.   1030.   1615.   2095.   2456.   3182.   3308.   2176.   1862.
 981      UI   1658.   1480.   1292.   1120.    914.    790.    722.    635.    518.    405.
 982      UI    375.    347.    270.    243.    223.    155.    155.    155.    129.     61.
 983      UI     61.     61.     61.     61.     61.     61.     61.     61.      0.      0.
 984      UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *
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LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

  985     KK   W1-1W  Routing thru W2
  986     KO                                22
  987     RS      5    FLOW       0
  988     RC   .065    .060    .065   12140 .079901
  989     RX      0     100     190     210     232     242     332     432
  990     RY     16      13      12      10      10      12      13      16
          *

  991     KK     W2
  992     KM   BASIN W2
  993     KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
  994     KM    L=      2.3  Lca=      1.1   S=  422.0  Kn= .050  LAG=  33.0
  995     KM    PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN
  996     KO                                22
  997     BA    2.69
  998     LG     .27     .35    4.19     .40    3.00
  999     UI    274.    522.   1229.   1805.   2237.   3080.   1992.   1608.   1388.   1185.
 1000     UI    993.    777.    656.    588.    442.    351.    306.    255.    210.    170.
 1001     UI    134.    134.     99.     53.     53.     53.     53.     53.     53.     53.
 1002     UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
 1003     UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *

 1004     KK     1W
 1005     KM     Combining W1 & W2
 1006     KO                                22
 1007     HC      2
          *

 1008     KK     X1
 1009     KM   BASIN X1
 1010     KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
 1011     KM    L=      2.3  Lca=      1.4   S=  457.0  Kn= .050  LAG=  35.0
 1012     KM    PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN
 1013     KO                                22
 1014     BA     .77
 1015     LG     .28     .35    4.30     .43   12.00
 1016     UI     74.    129.    301.    465.    569.    776.    674.    466.    404.    351.
 1017     UI    300.    248.    196.    175.    151.    117.     95.     82.     70.     57.
 1018     UI     50.     36.     36.     35.     14.     14.     14.     14.     14.     14.
 1019     UI     14.     14.      0.      0.      0.      0.      0.      0.      0.      0.
 1020     UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

 1021     KK     Y1
 1022     KM   BASIN Y1
 1023     KM    THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
 1024     KM    L=      1.3  Lca=       .5   S=  789.0  Kn= .050  LAG=  17.0
 1025     KM    PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN
 1026     KO                                22
 1027     BA     .57
 1028     LG     .38     .35    4.24     .42   12.00
 1029     UI    160.    607.   1074.    802.    556.    393.    270.    184.    131.     88.
 1030     UI     57.     43.     22.     22.     22.      0.      0.      0.      0.      0.
 1031     UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
          *
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```
LINE          ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

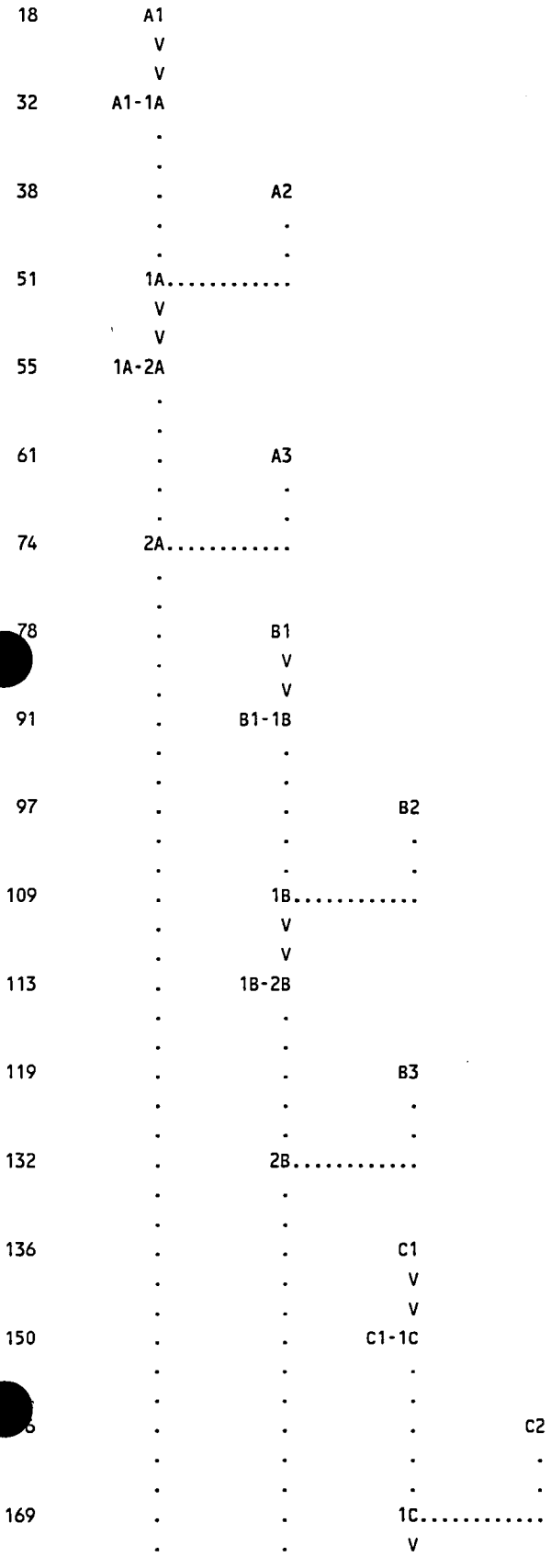
1032          KK    BES3  BUCKEYE STRUCTURE NO.3
1033          KM      Combining V1 & W1+W2 & X1 & Y1
1034          KO                                      22
1035          HC       4
              *
1036          ZZ
```

SCHEMATIC DIAGRAM OF STREAM NETWORK

INPUT

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

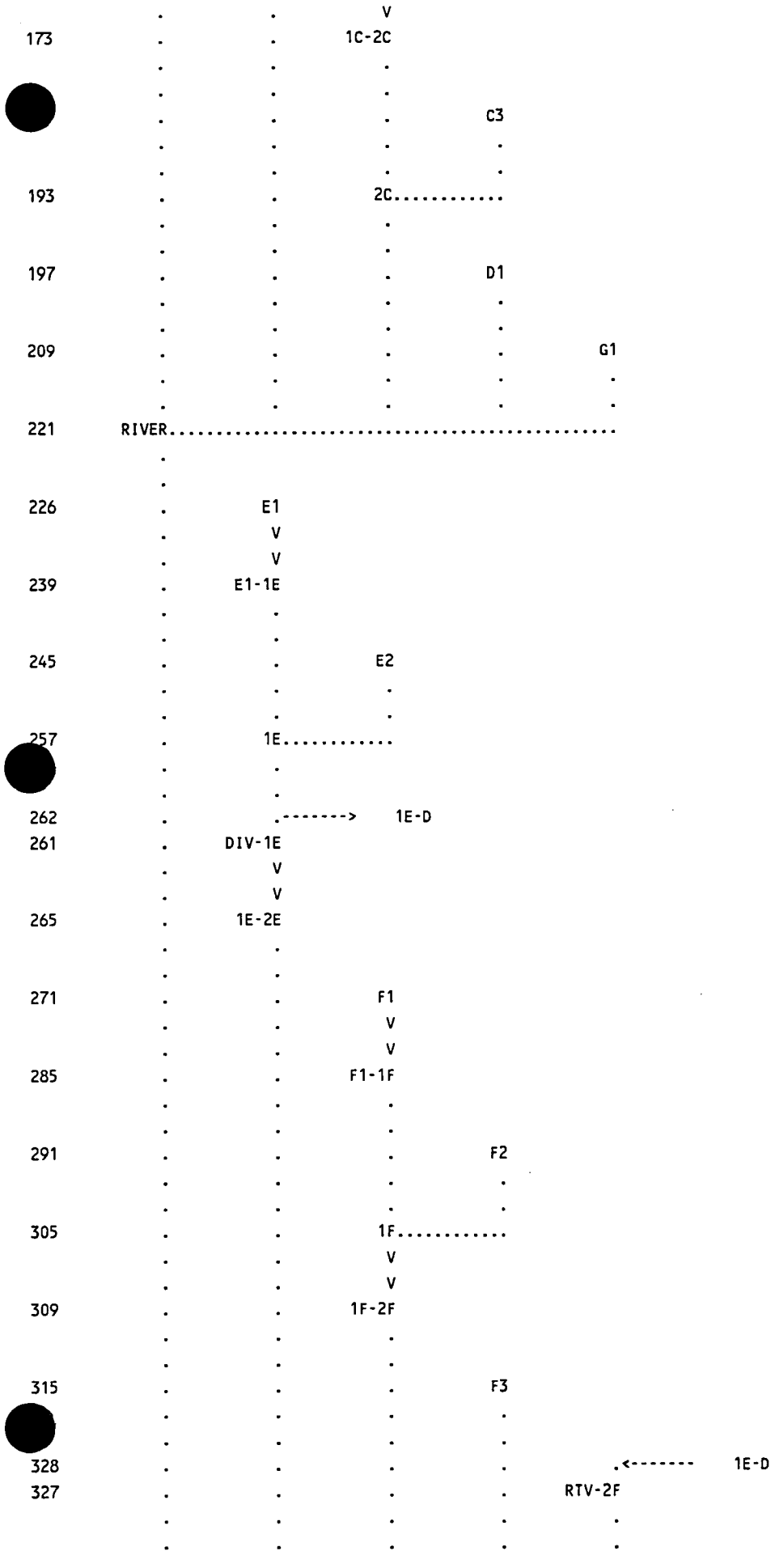
NO. (.) CONNECTOR (<----) RETURN OF DIVERTED OR PUMPED FLOW

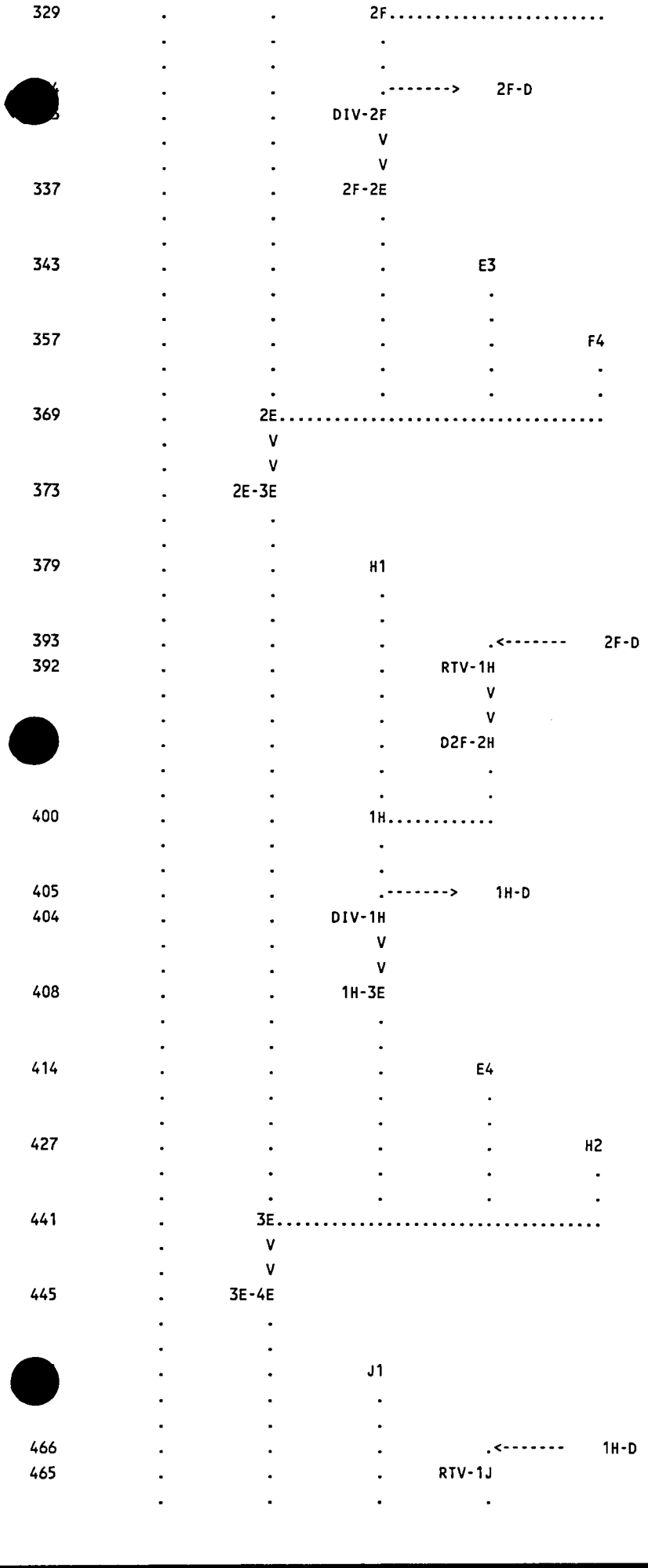


Jim, 1-14-94

I check over the pages to make sure the numbers were in order and that there were no blank pages - All is well.

Bev


173
1C-2C
193
2C
197
D1
209
G1
221
RIVER
226
E1
239
E1-1E
245
E2
257
1E
262
1E-D
261
DIV-1E
265
1E-2E
271
F1
285
F1-1F
291
F2
305
1F
309
1F-2F
315
F3
328
1E-D
327
RTV-2F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2F-D
DIV-2F
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F4
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2E
373
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379
H1
393
2F-D
392
RTV-1H
D2F-2H
400
1H
405
1H-D
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DIV-1H
408
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414
E4
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3E-4E
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1H-D
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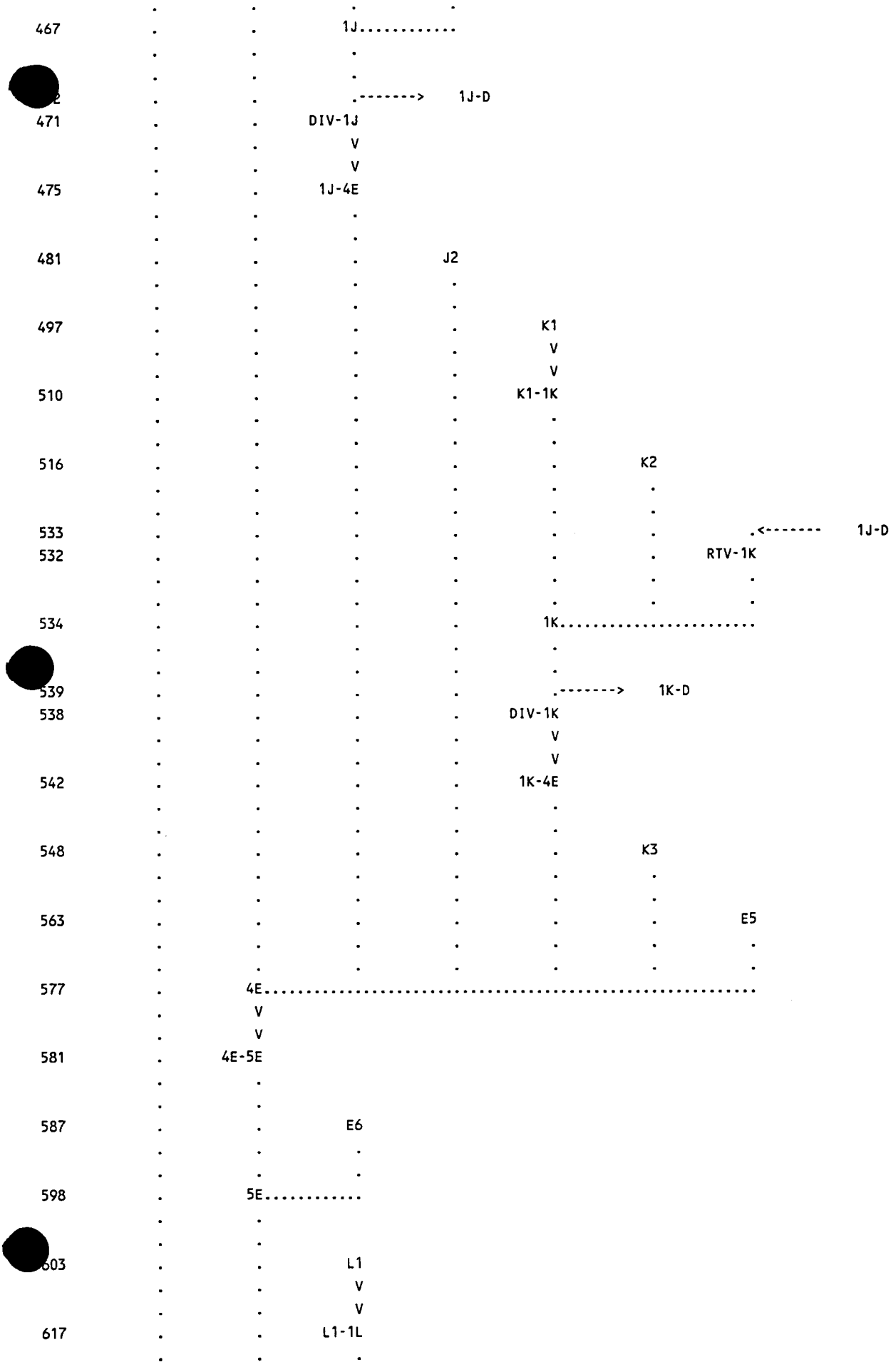
RTV-1J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471
DIV-1J
475
1J-4E
481
J2
497
K1
510
K1-1K
516
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1J-D
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RTV-1K
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548
K3
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E5
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4E-5E
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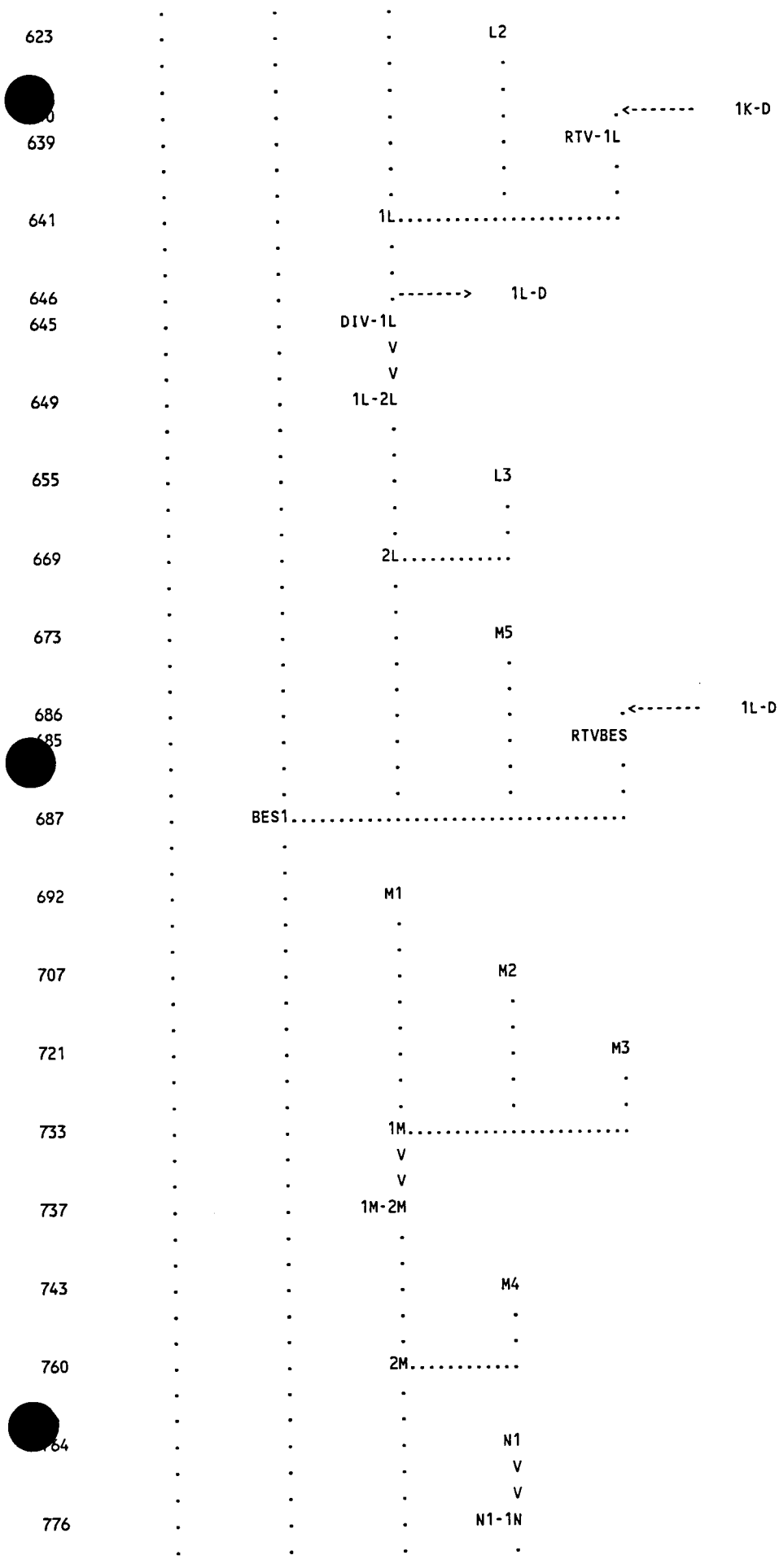
E6
598
5E
603
L1
617
L1-1L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BES1
692
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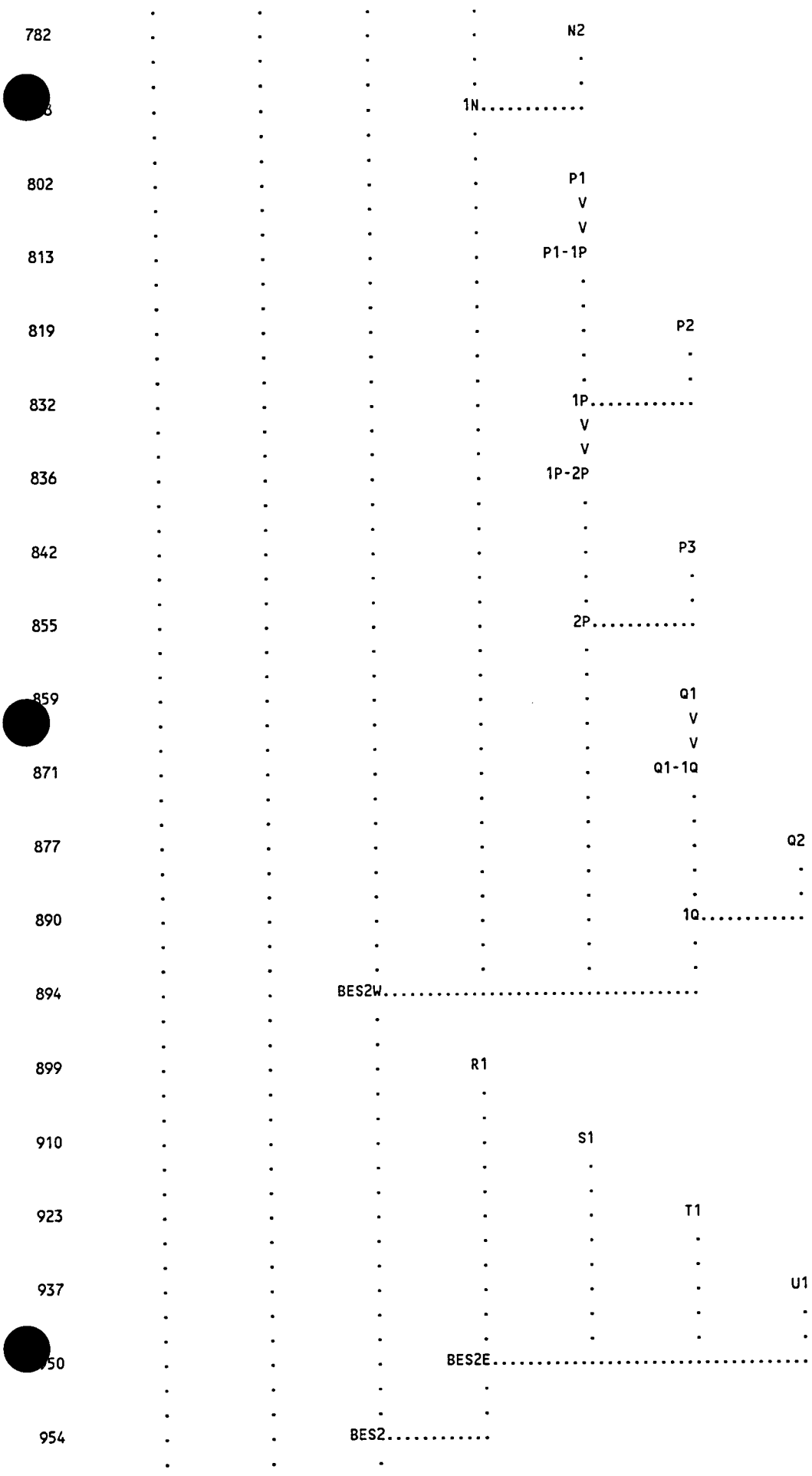
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P3
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2P
859
Q1
V
V
871
Q1-1Q
877
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BES2W
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R1
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923
T1
937
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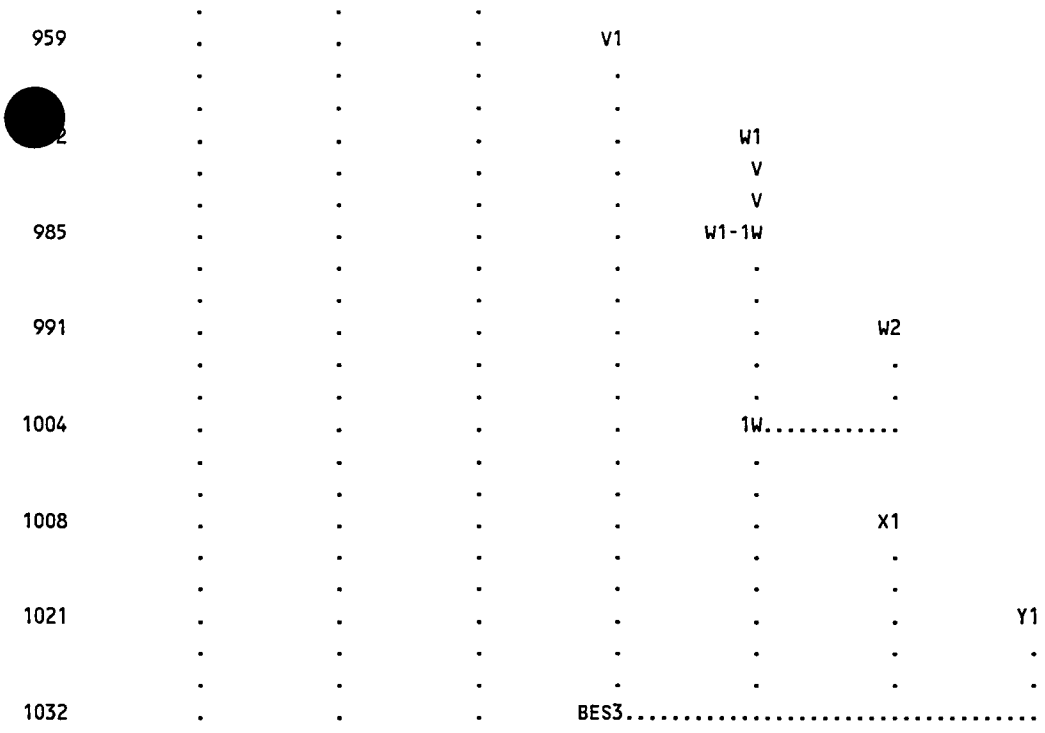
954
BES2



(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

HEC1 S/N: HMVersion: 6.20 Data File: wt24.hc1

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*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
*            SEPTEMBER 1990             *
*             VERSION 4.0               *
*                                       *
*  RUN DATE  12/15/1993  TIME  09:24:29 *
*                                       *
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*****************************************
*                                       *
*    U.S. ARMY CORPS OF ENGINEERS       *
*    HYDROLOGIC ENGINEERING CENTER      *
*         609 SECOND STREET             *
*       DAVIS, CALIFORNIA 95616         *
*           (916) 756-1104              *
*                                       *
*****************************************
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White Tanks Wash Flood Insurance Study - 7-July-93 - JRB
ALPHA Engineering Group Inc. - 5 minute interval - 24 Hour Storm

```
5 IO        OUTPUT CONTROL VARIABLES
                IPRNT        2  PRINT CONTROL
                IPLOT        0  PLOT CONTROL
                QSCAL       0.  HYDROGRAPH PLOT SCALE

6 IN        TIME DATA FOR INPUT TIME SERIES
                JXMIN       30  TIME INTERVAL IN MINUTES
                JXDATE   1   0  STARTING DATE
                JXTIME       0  STARTING TIME

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

            COMPUTATION INTERVAL     .08 HOURS
                 TOTAL TIME BASE   24.92 HOURS

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

7 JD        INDEX STORM NO. 1
                STRM      4.20  PRECIPITATION DEPTH
                TRDA       .01  TRANSPOSITION DRAINAGE AREA

8 PI          PRECIPITATION PATTERN
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13 JD INDEX STORM NO. 2
STRM 4.12 PRECIPITATION DEPTH
TRDA 5.00 TRANSPOSITION DRAINAGE AREA

0 PI PRECIPITATION PATTERN
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14 JD INDEX STORM NO. 3

STRM 3.99 PRECIPITATION DEPTH

TRDA 10.00 TRANSPOSITION DRAINAGE AREA

0 PI PRECIPITATION PATTERN

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15 JD INDEX STORM NO. 4

STRM 3.70 PRECIPITATION DEPTH

TRDA 50.00 TRANSPOSITION DRAINAGE AREA

0 PI PRECIPITATION PATTERN

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16 JD INDEX STORM NO. 5
STRM 3.57 PRECIPITATION DEPTH
TRDA 100.00 TRANSPOSITION DRAINAGE AREA

0 PI PRECIPITATION PATTERN
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17 JD INDEX STORM NO. 6
STRM 3.28 PRECIPITATION DEPTH
TRDA 500.00 TRANSPOSITION DRAINAGE AREA

0 PI PRECIPITATION PATTERN
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        ***************
        *             *
  KK    *      A1     *
        *             *
        ***************
                  BASIN A1
                   THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
                   L=      2.0  Lca=       .9   S=  414.0  Kn= .050  LAG=  29.0
                   PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN

23 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          2  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL         0.  HYDROGRAPH PLOT SCALE
                     IPNCH          0  PUNCH COMPUTED HYDROGRAPH
                      IOUT         22  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

                  RAINFALL DEPTH OF 4.20 WAS SPACIALLY REDUCED AS SHOWN BY THE JD RECORDS
                  THE PC RECORD USED A 24-HOUR SCS TYPE II RAINFALL

            SUBBASIN RUNOFF DATA

24 BA          SUBBASIN CHARACTERISTICS
                     TAREA       1.11  SUBBASIN AREA

27 LG          GREEN AND AMPT LOSS RATE
                     STRTL        .27  STARTING LOSS
                       DTH        .35  MOISTURE DEFICIT
                      PSIF       4.19  WETTING FRONT SUCTION
                     XKSAT        .39  HYDRAULIC CONDUCTIVITY
```

RTIMP 9.00 PERCENT IMPERVIOUS AREA

24 UI INPUT UNITGRAPH, 26 ORDINATES, VOLUME = 1.00

129.0	316.0	682.0	941.0	1322.0	1098.0	770.0	651.0	543.0	438.0
332.0	290.0	230.0	170.0	145.0	115.0	99.0	67.0	63.0	57.0
25.0	25.0	25.0	25.0	25.0	25.0				

***

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

HYDROGRAPH AT STATION A1
TRANSPOSITION AREA .0 SQ MI

TOTAL RAINFALL = 4.20, TOTAL LOSS = 2.78, TOTAL EXCESS = 1.42

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1094.	12.17	(CFS)	157.	43.	41.	41.
		(INCHES)	1.314	1.425	1.426	1.426
		(AC-FT)	78.	84.	84.	84.

CUMULATIVE AREA = 1.11 SQ MI

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

HYDROGRAPH AT STATION A1
TRANSPOSITION AREA 5.0 SQ MI

TOTAL RAINFALL = 4.12, TOTAL LOSS = 2.74, TOTAL EXCESS = 1.38

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1063.	12.17	(CFS)	152.	41.	40.	40.
		(INCHES)	1.277	1.386	1.386	1.386
		(AC-FT)	76.	82.	82.	82.

CUMULATIVE AREA = 1.11 SQ MI

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

HYDROGRAPH AT STATION A1
TRANSPOSITION AREA 10.0 SQ MI

TOTAL RAINFALL = 3.99, TOTAL LOSS = 2.67, TOTAL EXCESS = 1.32

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1011.	12.17	(CFS)	145.	39.	38.	38.
		(INCHES)	1.217	1.322	1.323	1.323
		(AC-FT)	72.	78.	78.	78.

CUMULATIVE AREA = 1.11 SQ MI

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

HYDROGRAPH AT STATION A1

TRANSPOSITION AREA 50.0 SQ MI

TOTAL RAINFALL = 3.70, TOTAL LOSS = 2.52, TOTAL EXCESS = 1.18

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
895.	12.17	(CFS)	129.	35.	34.	34.
		(INCHES)	1.081	1.178	1.178	1.178
		(AC-FT)	64.	70.	70.	70.

CUMULATIVE AREA = 1.11 SQ MI

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

HYDROGRAPH AT STATION A1
TRANSPOSITION AREA 100.0 SQ MI

TOTAL RAINFALL = 3.57, TOTAL LOSS = 2.46, TOTAL EXCESS = 1.11

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
842.	12.17	(CFS)	122.	33.	32.	32.
		(INCHES)	1.019	1.112	1.113	1.113
		(AC-FT)	60.	66.	66.	66.

CUMULATIVE AREA = 1.11 SQ MI

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

HYDROGRAPH AT STATION A1
TRANSPOSITION AREA 500.0 SQ MI

TOTAL RAINFALL = 3.28, TOTAL LOSS = 2.32, TOTAL EXCESS = .96

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
722.	12.17	(CFS)	105.	29.	28.	28.
		(INCHES)	.879	.965	.966	.966
		(AC-FT)	52.	57.	57.	57.

CUMULATIVE AREA = 1.11 SQ MI

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INTERPOLATED HYDROGRAPH AT A1

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	5.	*	1		1230	151	614.	*	1		1845	226	4.
1		0005	2	0.	*	1		0620	77	5.	*	1		1235	152	511.	*	1		1850	227	4.
1		0010	3	0.	*	1		0625	78	5.	*	1		1240	153	419.	*	1		1855	228	4.
1		0015	4	0.	*	1		0630	79	5.	*	1		1245	154	342.	*	1		1900	229	4.
1		0020	5	1.	*	1		0635	80	5.	*	1		1250	155	278.	*	1		1905	230	4.
1		0025	6	1.	*	1		0640	81	5.	*	1		1255	156	231.	*	1		1910	231	4.
1		0030	7	1.	*	1		0645	82	5.	*	1		1300	157	186.	*	1		1915	232	4.

1	0035	8	2.	*	1	0650	83	5.	*	1	1305	158	152.	*	1	1920	233	4.
1	0040	9	2.	*	1	0655	84	5.	*	1	1310	159	129.	*	1	1925	234	4.
1	0045	10	2.	*	1	0700	85	5.	*	1	1315	160	105.	*	1	1930	235	4.
1	0050	11	2.	*	1	0705	86	5.	*	1	1320	161	86.	*	1	1935	236	4.
1	0055	12	2.	*	1	0710	87	5.	*	1	1325	162	71.	*	1	1940	237	4.
1	0100	13	3.	*	1	0715	88	5.	*	1	1330	163	61.	*	1	1945	238	4.
1	0105	14	3.	*	1	0720	89	5.	*	1	1335	164	53.	*	1	1950	239	4.
1	0110	15	3.	*	1	0725	90	5.	*	1	1340	165	46.	*	1	1955	240	4.
1	0115	16	3.	*	1	0730	91	5.	*	1	1345	166	40.	*	1	2000	241	4.
1	0120	17	3.	*	1	0735	92	5.	*	1	1350	167	35.	*	1	2005	242	4.
1	0125	18	3.	*	1	0740	93	6.	*	1	1355	168	29.	*	1	2010	243	4.
1	0130	19	3.	*	1	0745	94	6.	*	1	1400	169	24.	*	1	2015	244	4.
1	0135	20	3.	*	1	0750	95	6.	*	1	1405	170	18.	*	1	2020	245	4.
1	0140	21	3.	*	1	0755	96	6.	*	1	1410	171	13.	*	1	2025	246	4.
1	0145	22	3.	*	1	0800	97	6.	*	1	1415	172	12.	*	1	2030	247	4.
1	0150	23	3.	*	1	0805	98	6.	*	1	1420	173	12.	*	1	2035	248	4.
1	0155	24	3.	*	1	0810	99	6.	*	1	1425	174	11.	*	1	2040	249	4.
1	0200	25	3.	*	1	0815	100	6.	*	1	1430	175	11.	*	1	2045	250	4.
1	0205	26	3.	*	1	0820	101	6.	*	1	1435	176	11.	*	1	2050	251	4.
1	0210	27	3.	*	1	0825	102	6.	*	1	1440	177	10.	*	1	2055	252	4.
1	0215	28	3.	*	1	0830	103	6.	*	1	1445	178	10.	*	1	2100	253	3.
1	0220	29	3.	*	1	0835	104	7.	*	1	1450	179	10.	*	1	2105	254	3.
1	0225	30	3.	*	1	0840	105	7.	*	1	1455	180	10.	*	1	2110	255	3.
1	0230	31	3.	*	1	0845	106	7.	*	1	1500	181	9.	*	1	2115	256	3.
1	0235	32	3.	*	1	0850	107	7.	*	1	1505	182	9.	*	1	2120	257	3.
1	0240	33	3.	*	1	0855	108	7.	*	1	1510	183	9.	*	1	2125	258	4.
1	0245	34	3.	*	1	0900	109	7.	*	1	1515	184	9.	*	1	2130	259	4.
1	0250	35	3.	*	1	0905	110	7.	*	1	1520	185	9.	*	1	2135	260	4.
1	0255	36	3.	*	1	0910	111	7.	*	1	1525	186	8.	*	1	2140	261	4.
1	0300	37	3.	*	1	0915	112	7.	*	1	1530	187	8.	*	1	2145	262	4.
1	0305	38	4.	*	1	0920	113	8.	*	1	1535	188	8.	*	1	2150	263	4.
1	0310	39	4.	*	1	0925	114	8.	*	1	1540	189	8.	*	1	2155	264	3.
1	0315	40	4.	*	1	0930	115	8.	*	1	1545	190	8.	*	1	2200	265	3.
1	0320	41	4.	*	1	0935	116	8.	*	1	1550	191	8.	*	1	2205	266	3.
1	0325	42	3.	*	1	0940	117	8.	*	1	1555	192	7.	*	1	2210	267	3.
1	0330	43	3.	*	1	0945	118	8.	*	1	1600	193	7.	*	1	2215	268	3.
1	0335	44	3.	*	1	0950	119	9.	*	1	1605	194	7.	*	1	2220	269	3.
1	0340	45	3.	*	1	0955	120	9.	*	1	1610	195	7.	*	1	2225	270	3.
1	0345	46	3.	*	1	1000	121	9.	*	1	1615	196	7.	*	1	2230	271	3.
1	0350	47	3.	*	1	1005	122	9.	*	1	1620	197	7.	*	1	2235	272	3.
1	0355	48	3.	*	1	1010	123	9.	*	1	1625	198	6.	*	1	2240	273	3.
1	0400	49	4.	*	1	1015	124	10.	*	1	1630	199	6.	*	1	2245	274	3.
1	0405	50	4.	*	1	1020	125	10.	*	1	1635	200	6.	*	1	2250	275	3.
1	0410	51	4.	*	1	1025	126	10.	*	1	1640	201	6.	*	1	2255	276	3.
1	0415	52	4.	*	1	1030	127	11.	*	1	1645	202	6.	*	1	2300	277	3.
1	0420	53	4.	*	1	1035	128	11.	*	1	1650	203	6.	*	1	2305	278	3.
1	0425	54	4.	*	1	1040	129	12.	*	1	1655	204	6.	*	1	2310	279	3.
1	0430	55	4.	*	1	1045	130	12.	*	1	1700	205	6.	*	1	2315	280	3.
1	0435	56	4.	*	1	1050	131	13.	*	1	1705	206	6.	*	1	2320	281	3.
1	0440	57	4.	*	1	1055	132	13.	*	1	1710	207	6.	*	1	2325	282	3.
1	0445	58	4.	*	1	1100	133	14.	*	1	1715	208	6.	*	1	2330	283	3.
1	0450	59	4.	*	1	1105	134	15.	*	1	1720	209	6.	*	1	2335	284	3.
1	0455	60	4.	*	1	1110	135	15.	*	1	1725	210	6.	*	1	2340	285	3.
1	0500	61	4.	*	1	1115	136	17.	*	1	1730	211	6.	*	1	2345	286	3.
1	0505	62	4.	*	1	1120	137	18.	*	1	1735	212	6.	*	1	2350	287	3.
1	0510	63	4.	*	1	1125	138	19.	*	1	1740	213	5.	*	1	2355	288	3.
1	0515	64	4.	*	1	1130	139	21.	*	1	1745	214	5.	*	2	0000	289	3.
1	0520	65	4.	*	1	1135	140	45.	*	1	1750	215	5.	*	2	0005	290	3.
1	0525	66	4.	*	1	1140	141	105.	*	1	1755	216	5.	*	2	0010	291	3.
1	0530	67	4.	*	1	1145	142	232.	*	1	1800	217	5.	*	2	0015	292	2.

1	0535	68	4.	*	1	1150	143	409.	*	1	1805	218	5.	*	2	0020	293	2.
1	0540	69	4.	*	1	1155	144	659.	*	1	1810	219	5.	*	2	0025	294	2.
1	0545	70	4.	*	1	1200	145	871.	*	1	1815	220	5.	*	2	0030	295	1.
1	0550	71	4.	*	1	1205	146	1000.	*	1	1820	221	5.	*	2	0035	296	1.
1	0555	72	4.	*	1	1210	147	1070.	*	1	1825	222	5.	*	2	0040	297	1.
1	0600	73	5.	*	1	1215	148	1049.	*	1	1830	223	5.	*	2	0045	298	1.
1	0605	74	5.	*	1	1220	149	956.	*	1	1835	224	5.	*	2	0050	299	1.
1	0610	75	5.	*	1	1225	150	768.	*	1	1840	225	4.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
1070.	12.17	(CFS)	154.	42.	40.	40.
		(INCHES)	1.286	1.395	1.396	1.396
		(AC-FT)	76.	83.	83.	83.

CUMULATIVE AREA = 1.11 SQ MI

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          **************
          *            *
32 KK     *     A1-1A  *       Routing thru A2
          *            *
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33 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

HYDROGRAPH ROUTING DATA

34 RS STORAGE ROUTING

NSTPS	5	NUMBER OF SUBREACHES
ITYP	FLOW	TYPE OF INITIAL CONDITION
RSVRIC	-1.00	INITIAL CONDITION
X	.00	WORKING R AND D COEFFICIENT

35 RC NORMAL DEPTH CHANNEL

ANL	.045	LEFT OVERBANK N-VALUE
ANCH	.045	MAIN CHANNEL N-VALUE
ANR	.045	RIGHT OVERBANK N-VALUE
RLNTH	14160.	REACH LENGTH
SEL	.0240	ENERGY SLOPE
ELMAX	.0	MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

CROSS-SECTION DATA

--- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---

37 RY	ELEVATION	27.00	23.00	19.00	10.00	10.00	20.00	26.00	32.00
36 RX	DISTANCE	.00	75.00	125.00	185.00	190.00	220.00	280.00	340.00

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COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	3.99	12.19	24.60	41.23	62.07	87.13	116.39	149.94	189.68
OUTFLOW	.00	51.74	234.13	600.11	1196.66	2066.44	3248.97	4781.44	6777.25	9557.20
ELEVATION	10.00	11.16	12.32	13.47	14.63	15.79	16.95	18.11	19.26	20.42
STORAGE	238.61	297.35	366.71	448.52	542.87	649.33	762.05	879.13	1000.57	1126.36
OUTFLOW	13060.29	17288.34	22303.60	28297.10	35403.08	43929.45	54150.73	65622.65	78336.34	92290.41
ELEVATION	21.58	22.74	23.89	25.05	26.21	27.37	28.53	29.68	30.84	32.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 4781. TO 92290.
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.)

1070 OK

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

HYDROGRAPH AT STATION A1-1A
TRANSPOSITION AREA .0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
953.	12.50	(CFS)	157.	42.	41.	41.
		(INCHES)	1.314	1.423	1.423	1.423
		(AC-FT)	78.	84.	84.	84.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
7.	12.50	1.	0.	0.	0.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
14.16	12.50	11.22	10.38	10.36	10.36

CUMULATIVE AREA = 1.11 SQ MI

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HYDROGRAPH AT STATION A1-1A
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
924.	12.50	(CFS)	152.	41.	40.	40.
		(INCHES)	1.277	1.384	1.384	1.384
		(AC-FT)	76.	82.	82.	82.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
7.	12.50	1.	0.	0.	0.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
14.10	12.50	11.20	10.37	10.36	10.36

CUMULATIVE AREA = 1.11 SQ MI

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

HYDROGRAPH AT STATION A1-1A
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
876.	12.50	(CFS)	145.	39.	38.	38.
		(INCHES)	1.216	1.320	1.320	1.320
		(AC-FT)	72.	78.	78.	78.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
6.	12.50	1.	0.	0.	0.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
14.01	12.50	11.17	10.36	10.35	10.35

CUMULATIVE AREA = 1.11 SQ MI

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

HYDROGRAPH AT STATION A1-1A
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
770.	12.58	(CFS)	129.	35.	34.	34.
		(INCHES)	1.080	1.176	1.176	1.176
		(AC-FT)	64.	70.	70.	70.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
6.	12.58	1.	0.	0.	0.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
13.80	12.58	11.11	10.34	10.33	10.33

CUMULATIVE AREA = 1.11 SQ MI

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

HYDROGRAPH AT STATION A1-1A
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
723.	12.58	(CFS)	122.	33.	32.	32.
		(INCHES)	1.018	1.111	1.111	1.111
		(AC-FT)	60.	66.	66.	66.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE

(AC-FT)	(HR)		6-HR	24-HR	72-HR	24.92-HR
6.	12.58		1.	0.	0.	0.

PEAK STAGE	TIME		MAXIMUM AVERAGE STAGE			
(FEET)	(HR)		6-HR	24-HR	72-HR	24.92-HR
13.71	12.58		11.08	10.33	10.32	10.32

CUMULATIVE AREA = 1.11 SQ MI

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

HYDROGRAPH AT STATION A1-1A
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
608.	12.58	(CFS)	105.	29.	28.	28.
		(INCHES)	.878	.964	.964	.964
		(AC-FT)	52.	57.	57.	57.

PEAK STORAGE	TIME		MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)		6-HR	24-HR	72-HR	24.92-HR
5.	12.58		1.	0.	0.	0.

PEAK STAGE	TIME		MAXIMUM AVERAGE STAGE			
(FEET)	(HR)		6-HR	24-HR	72-HR	24.92-HR
13.49	12.58		11.01	10.31	10.30	10.30

CUMULATIVE AREA = 1.11 SQ MI

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INTERPOLATED HYDROGRAPH AT A1-1A

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	4.	*	1		1230	151	931.	*	1		1845	226	5.
1		0005	2	0.	*	1		0620	77	4.	*	1		1235	152	927.	*	1		1850	227	5.
1		0010	3	0.	*	1		0625	78	4.	*	1		1240	153	862.	*	1		1855	228	5.
1		0015	4	0.	*	1		0630	79	4.	*	1		1245	154	763.	*	1		1900	229	5.
1		0020	5	0.	*	1		0635	80	4.	*	1		1250	155	660.	*	1		1905	230	5.
1		0025	6	0.	*	1		0640	81	4.	*	1		1255	156	573.	*	1		1910	231	5.
1		0030	7	0.	*	1		0645	82	4.	*	1		1300	157	501.	*	1		1915	232	5.
1		0035	8	0.	*	1		0650	83	4.	*	1		1305	158	428.	*	1		1920	233	5.
1		0040	9	0.	*	1		0655	84	4.	*	1		1310	159	361.	*	1		1925	234	5.
1		0045	10	0.	*	1		0700	85	4.	*	1		1315	160	304.	*	1		1930	235	5.
1		0050	11	0.	*	1		0705	86	5.	*	1		1320	161	258.	*	1		1935	236	5.
1		0055	12	0.	*	1		0710	87	5.	*	1		1325	162	226.	*	1		1940	237	5.
1		0100	13	0.	*	1		0715	88	5.	*	1		1330	163	201.	*	1		1945	238	5.
1		0105	14	1.	*	1		0720	89	5.	*	1		1335	164	176.	*	1		1950	239	4.
1		0110	15	1.	*	1		0725	90	5.	*	1		1340	165	151.	*	1		1955	240	4.
1		0115	16	1.	*	1		0730	91	5.	*	1		1345	166	129.	*	1		2000	241	4.
1		0120	17	1.	*	1		0735	92	5.	*	1		1350	167	110.	*	1		2005	242	4.
1		0125	18	1.	*	1		0740	93	5.	*	1		1355	168	93.	*	1		2010	243	4.
1		0130	19	2.	*	1		0745	94	5.	*	1		1400	169	80.	*	1		2015	244	4.
1		0135	20	2.	*	1		0750	95	5.	*	1		1405	170	69.	*	1		2020	245	4.

1	0140	21	2.	*	1	0755	96	5.	*	1	1410	171	61.	*	1	2025	246	4.
1	0145	22	2.	*	1	0800	97	5.	*	1	1415	172	55.	*	1	2030	247	4.
1	0150	23	2.	*	1	0805	98	5.	*	1	1420	173	51.	*	1	2035	248	4.
1	0155	24	2.	*	1	0810	99	5.	*	1	1425	174	48.	*	1	2040	249	4.
1	0200	25	2.	*	1	0815	100	5.	*	1	1430	175	45.	*	1	2045	250	4.
1	0205	26	2.	*	1	0820	101	5.	*	1	1435	176	41.	*	1	2050	251	4.
1	0210	27	3.	*	1	0825	102	5.	*	1	1440	177	38.	*	1	2055	252	4.
1	0215	28	3.	*	1	0830	103	5.	*	1	1445	178	34.	*	1	2100	253	4.
1	0220	29	3.	*	1	0835	104	5.	*	1	1450	179	31.	*	1	2105	254	4.
1	0225	30	3.	*	1	0840	105	6.	*	1	1455	180	27.	*	1	2110	255	4.
1	0230	31	3.	*	1	0845	106	6.	*	1	1500	181	25.	*	1	2115	256	4.
1	0235	32	3.	*	1	0850	107	6.	*	1	1505	182	22.	*	1	2120	257	4.
1	0240	33	3.	*	1	0855	108	6.	*	1	1510	183	20.	*	1	2125	258	4.
1	0245	34	3.	*	1	0900	109	6.	*	1	1515	184	18.	*	1	2130	259	4.
1	0250	35	3.	*	1	0905	110	6.	*	1	1520	185	16.	*	1	2135	260	4.
1	0255	36	3.	*	1	0910	111	6.	*	1	1525	186	15.	*	1	2140	261	4.
1	0300	37	3.	*	1	0915	112	6.	*	1	1530	187	14.	*	1	2145	262	4.
1	0305	38	3.	*	1	0920	113	6.	*	1	1535	188	13.	*	1	2150	263	4.
1	0310	39	3.	*	1	0925	114	6.	*	1	1540	189	12.	*	1	2155	264	4.
1	0315	40	3.	*	1	0930	115	6.	*	1	1545	190	11.	*	1	2200	265	4.
1	0320	41	3.	*	1	0935	116	7.	*	1	1550	191	11.	*	1	2205	266	4.
1	0325	42	3.	*	1	0940	117	7.	*	1	1555	192	10.	*	1	2210	267	4.
1	0330	43	3.	*	1	0945	118	7.	*	1	1600	193	10.	*	1	2215	268	4.
1	0335	44	3.	*	1	0950	119	7.	*	1	1605	194	10.	*	1	2220	269	4.
1	0340	45	3.	*	1	0955	120	7.	*	1	1610	195	9.	*	1	2225	270	4.
1	0345	46	3.	*	1	1000	121	7.	*	1	1615	196	9.	*	1	2230	271	4.
1	0350	47	3.	*	1	1005	122	7.	*	1	1620	197	9.	*	1	2235	272	3.
1	0355	48	3.	*	1	1010	123	7.	*	1	1625	198	8.	*	1	2240	273	3.
1	0400	49	3.	*	1	1015	124	8.	*	1	1630	199	8.	*	1	2245	274	3.
1	0405	50	3.	*	1	1020	125	8.	*	1	1635	200	8.	*	1	2250	275	3.
1	0410	51	3.	*	1	1025	126	8.	*	1	1640	201	8.	*	1	2255	276	3.
1	0415	52	3.	*	1	1030	127	8.	*	1	1645	202	8.	*	1	2300	277	3.
1	0420	53	3.	*	1	1035	128	8.	*	1	1650	203	7.	*	1	2305	278	3.
1	0425	54	3.	*	1	1040	129	8.	*	1	1655	204	7.	*	1	2310	279	3.
1	0430	55	3.	*	1	1045	130	9.	*	1	1700	205	7.	*	1	2315	280	3.
1	0435	56	3.	*	1	1050	131	9.	*	1	1705	206	7.	*	1	2320	281	3.
1	0440	57	3.	*	1	1055	132	9.	*	1	1710	207	7.	*	1	2325	282	3.
1	0445	58	4.	*	1	1100	133	9.	*	1	1715	208	7.	*	1	2330	283	3.
1	0450	59	4.	*	1	1105	134	10.	*	1	1720	209	7.	*	1	2335	284	3.
1	0455	60	4.	*	1	1110	135	10.	*	1	1725	210	6.	*	1	2340	285	3.
1	0500	61	4.	*	1	1115	136	10.	*	1	1730	211	6.	*	1	2345	286	3.
1	0505	62	4.	*	1	1120	137	11.	*	1	1735	212	6.	*	1	2350	287	3.
1	0510	63	4.	*	1	1125	138	11.	*	1	1740	213	6.	*	1	2355	288	3.
1	0515	64	4.	*	1	1130	139	12.	*	1	1745	214	6.	*	2	0000	289	3.
1	0520	65	4.	*	1	1135	140	12.	*	1	1750	215	6.	*	2	0005	290	3.
1	0525	66	4.	*	1	1140	141	13.	*	1	1755	216	6.	*	2	0010	291	3.
1	0530	67	4.	*	1	1145	142	14.	*	1	1800	217	6.	*	2	0015	292	3.
1	0535	68	4.	*	1	1150	143	16.	*	1	1805	218	6.	*	2	0020	293	3.
1	0540	69	4.	*	1	1155	144	21.	*	1	1810	219	6.	*	2	0025	294	3.
1	0545	70	4.	*	1	1200	145	40.	*	1	1815	220	6.	*	2	0030	295	3.
1	0550	71	4.	*	1	1205	146	107.	*	1	1820	221	6.	*	2	0035	296	3.
1	0555	72	4.	*	1	1210	147	241.	*	1	1825	222	6.	*	2	0040	297	3.
1	0600	73	4.	*	1	1215	148	460.	*	1	1830	223	6.	*	2	0045	298	3.
1	0605	74	4.	*	1	1220	149	678.	*	1	1835	224	5.	*	2	0050	299	3.
1	0610	75	4.	*	1	1225	150	853.	*	1	1840	225	5.	*	2	0055	300	3.
				*					*					*				

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

931.	12.50	(CFS)	154.	42.	40.	40.
		(INCHES)	1.286	1.394	1.394	1.394
		(AC-FT)	76.	82.	83.	83.

CUMULATIVE AREA = 1.11 SQ MI

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38 KK

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* *
* A2 *
* *
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BASIN A2
THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
L= 2.7 Lca= 1.2 S= 127.0 Kn= .060 LAG= 53.0
PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN

43 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

SUBBASIN RUNOFF DATA

44 BA SUBBASIN CHARACTERISTICS

TAREA	1.69	SUBBASIN AREA

45 LG GREEN AND AMPT LOSS RATE

STRTL	.19	STARTING LOSS
DTH	.35	MOISTURE DEFICIT
PSIF	3.77	WETTING FRONT SUCTION
XKSAT	.30	HYDRAULIC CONDUCTIVITY
RTIMP	.00	PERCENT IMPERVIOUS AREA

44 UI INPUT UNITGRAPH, 31 ORDINATES, VOLUME = 1.00

108.0	108.0	246.0	417.0	523.0	603.0	685.0	799.0	960.0	1282.0
1311.0	1060.0	912.0	799.0	682.0	582.0	500.0	366.0	238.0	187.0
177.0	126.0	108.0	85.0	33.0	33.0	33.0	33.0	33.0	33.0
33.0									

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HYDROGRAPH AT STATION A2
TRANSPOSITION AREA .0 SQ MI

TOTAL RAINFALL = 4.20, TOTAL LOSS = 2.91, TOTAL EXCESS = 1.29

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1353.	12.67	(CFS)	235.	59.	57.	57.
		(INCHES)	1.292	1.292	1.292	1.292
		(AC-FT)	116.	116.	116.	116.

CUMULATIVE AREA = 1.69 SQ MI

WARNING EXCESS AT PONDING LESS THAN ZERO FOR PERIOD. EXCESS SET TO ZERO

ok JB.

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

HYDROGRAPH AT STATION A2
TRANSPOSITION AREA 5.0 SQ MI

TOTAL RAINFALL = 4.12, TOTAL LOSS = 2.87, TOTAL EXCESS = 1.25

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1314.	12.67	(CFS)	228.	57.	55.	55.
		(INCHES)	1.252	1.252	1.252	1.252
		(AC-FT)	113.	113.	113.	113.

CUMULATIVE AREA = 1.69 SQ MI

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HYDROGRAPH AT STATION A2
TRANSPOSITION AREA 10.0 SQ MI

TOTAL RAINFALL = 3.99, TOTAL LOSS = 2.80, TOTAL EXCESS = 1.19

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1253.	12.67	(CFS)	216.	54.	52.	52.
		(INCHES)	1.189	1.189	1.189	1.189
		(AC-FT)	107.	107.	107.	107.

CUMULATIVE AREA = 1.69 SQ MI

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HYDROGRAPH AT STATION A2
TRANSPOSITION AREA 50.0 SQ MI

TOTAL RAINFALL = 3.70, TOTAL LOSS = 2.64, TOTAL EXCESS = 1.06

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1122.	12.67	(CFS)	193.	48.	47.	47.
		(INCHES)	1.063	1.063	1.063	1.063
		(AC-FT)	96.	96.	96.	96.

CUMULATIVE AREA = 1.69 SQ MI

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

HYDROGRAPH AT STATION A2
TRANSPOSITION AREA 100.0 SQ MI

TOTAL RAINFALL = 3.57, TOTAL LOSS = 2.56, TOTAL EXCESS = 1.01

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1064.	12.67	(CFS)	183.	46.	44.	44.
		(INCHES)	1.007	1.007	1.007	1.007
		(AC-FT)	91.	91.	91.	91.

CUMULATIVE AREA = 1.69 SQ MI

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HYDROGRAPH AT STATION A2
TRANSPOSITION AREA 500.0 SQ MI

TOTAL RAINFALL = 3.28, TOTAL LOSS = 2.40, TOTAL EXCESS = .88

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
931.	12.67	(CFS)	160.	40.	39.	39.
		(INCHES)	.881	.881	.881	.881
		(AC-FT)	79.	79.	79.	79.

CUMULATIVE AREA = 1.69 SQ MI

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INTERPOLATED HYDROGRAPH AT A2

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	0.	*	1		1230	151	1267.	*	1		1845	226	0.
1		0005	2	0.	*	1		0620	77	0.	*	1		1235	152	1317.	*	1		1850	227	0.
1		0010	3	0.	*	1		0625	78	0.	*	1		1240	153	1321.	*	1		1855	228	0.
1		0015	4	0.	*	1		0630	79	0.	*	1		1245	154	1266.	*	1		1900	229	0.
1		0020	5	0.	*	1		0635	80	0.	*	1		1250	155	1122.	*	1		1905	230	0.
1		0025	6	0.	*	1		0640	81	0.	*	1		1255	156	954.	*	1		1910	231	0.
1		0030	7	0.	*	1		0645	82	0.	*	1		1300	157	811.	*	1		1915	232	0.
1		0035	8	0.	*	1		0650	83	0.	*	1		1305	158	672.	*	1		1920	233	0.
1		0040	9	0.	*	1		0655	84	0.	*	1		1310	159	546.	*	1		1925	234	0.
1		0045	10	0.	*	1		0700	85	0.	*	1		1315	160	441.	*	1		1930	235	0.
1		0050	11	0.	*	1		0705	86	0.	*	1		1320	161	344.	*	1		1935	236	0.
1		0055	12	0.	*	1		0710	87	0.	*	1		1325	162	261.	*	1		1940	237	0.
1		0100	13	0.	*	1		0715	88	0.	*	1		1330	163	200.	*	1		1945	238	0.
1		0105	14	0.	*	1		0720	89	0.	*	1		1335	164	157.	*	1		1950	239	0.
1		0110	15	0.	*	1		0725	90	0.	*	1		1340	165	123.	*	1		1955	240	0.
1		0115	16	0.	*	1		0730	91	0.	*	1		1345	166	92.	*	1		2000	241	0.
1		0120	17	0.	*	1		0735	92	0.	*	1		1350	167	72.	*	1		2005	242	0.
1		0125	18	0.	*	1		0740	93	0.	*	1		1355	168	55.	*	1		2010	243	0.
1		0130	19	0.	*	1		0745	94	0.	*	1		1400	169	43.	*	1		2015	244	0.
1		0135	20	0.	*	1		0750	95	0.	*	1		1405	170	43.	*	1		2020	245	0.
1		0140	21	0.	*	1		0755	96	0.	*	1		1410	171	36.	*	1		2025	246	0.
1		0145	22	0.	*	1		0800	97	0.	*	1		1415	172	29.	*	1		2030	247	0.

1	0150	23	0.	*	1	0805	98	0.	*	1	1420	173	22.	*	1	2035	248	0.
1	0155	24	0.	*	1	0810	99	0.	*	1	1425	174	14.	*	1	2040	249	0.
*1	0200	25	0.	*	1	0815	100	0.	*	1	1430	175	7.	*	1	2045	250	0.
1	0205	26	0.	*	1	0820	101	0.	*	1	1435	176	0.	*	1	2050	251	0.
1	0210	27	0.	*	1	0825	102	0.	*	1	1440	177	0.	*	1	2055	252	0.
1	0215	28	0.	*	1	0830	103	0.	*	1	1445	178	0.	*	1	2100	253	0.
1	0220	29	0.	*	1	0835	104	0.	*	1	1450	179	0.	*	1	2105	254	0.
1	0225	30	0.	*	1	0840	105	0.	*	1	1455	180	0.	*	1	2110	255	0.
1	0230	31	0.	*	1	0845	106	0.	*	1	1500	181	0.	*	1	2115	256	0.
1	0235	32	0.	*	1	0850	107	0.	*	1	1505	182	0.	*	1	2120	257	0.
1	0240	33	0.	*	1	0855	108	0.	*	1	1510	183	0.	*	1	2125	258	0.
1	0245	34	0.	*	1	0900	109	0.	*	1	1515	184	0.	*	1	2130	259	0.
1	0250	35	0.	*	1	0905	110	0.	*	1	1520	185	0.	*	1	2135	260	0.
1	0255	36	0.	*	1	0910	111	0.	*	1	1525	186	0.	*	1	2140	261	0.
1	0300	37	0.	*	1	0915	112	0.	*	1	1530	187	0.	*	1	2145	262	0.
1	0305	38	0.	*	1	0920	113	0.	*	1	1535	188	0.	*	1	2150	263	0.
1	0310	39	0.	*	1	0925	114	0.	*	1	1540	189	0.	*	1	2155	264	0.
1	0315	40	0.	*	1	0930	115	0.	*	1	1545	190	0.	*	1	2200	265	0.
1	0320	41	0.	*	1	0935	116	0.	*	1	1550	191	0.	*	1	2205	266	0.
1	0325	42	0.	*	1	0940	117	0.	*	1	1555	192	0.	*	1	2210	267	0.
1	0330	43	0.	*	1	0945	118	0.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	0.	*	1	0950	119	0.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	0.	*	1	0955	120	0.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	0.	*	1	1000	121	0.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	0.	*	1	1005	122	0.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	0.	*	1	1010	123	0.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	0.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	0.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	0.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	0.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	0.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	0.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	0.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	0.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	0.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	0.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	0.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	0.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	0.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	0.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	0.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	0.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	0.	*	1	1135	140	22.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	0.	*	1	1140	141	44.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	0.	*	1	1145	142	95.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	0.	*	1	1150	143	181.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	0.	*	1	1155	144	289.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	0.	*	1	1200	145	414.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	0.	*	1	1205	146	534.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	0.	*	1	1210	147	678.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	0.	*	1	1215	148	826.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	0.	*	1	1220	149	1006.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	0.	*	1	1225	150	1170.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*					

****

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
1321.	12.67	(CFS)	229.	57.	55.	55.
		(INCHES)	1.259	1.259	1.259	1.259

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                        (AC-FT)     113.        113.        113.         113.

                         CUMULATIVE AREA =    1.69 SQ MI



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


              ***************
              *             *
 51 KK        *         1A  *
              *             *
              ***************
                              Combining A1 & A2

 53 KO             OUTPUT CONTROL VARIABLES
                         IPRNT            2  PRINT CONTROL
                         IPLOT            0  PLOT CONTROL
                         QSCAL           0.  HYDROGRAPH PLOT SCALE
                         IPNCH            0  PUNCH COMPUTED HYDROGRAPH
                          IOUT           22  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


 54 HC             HYDROGRAPH COMBINATION
                         ICOMP            2  NUMBER OF HYDROGRAPHS TO COMBINE

                                                                   ***

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


                           HYDROGRAPH AT STATION       1A
                         TRANSPOSITION AREA       .0 SQ MI

 PEAK FLOW     TIME                            MAXIMUM AVERAGE FLOW
   (CFS)       (HR)                    6-HR        24-HR       72-HR     24.92-HR
    2297.     12.58        (CFS)       392.         101.         97.          97.
                         (INCHES)     1.301        1.344       1.344        1.344
                          (AC-FT)      194.         201.        201.         201.

                          CUMULATIVE AREA =    2.80 SQ MI


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


                           HYDROGRAPH AT STATION       1A
                         TRANSPOSITION AREA      5.0 SQ MI

 PEAK FLOW     TIME                            MAXIMUM AVERAGE FLOW
   (CFS)       (HR)                    6-HR        24-HR       72-HR     24.92-HR
    2231.     12.58        (CFS)       380.          98.         95.          95.
                         (INCHES)     1.262        1.304       1.304        1.304
                          (AC-FT)      188.         195.        195.         195.

                          CUMULATIVE AREA =    2.80 SQ MI
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*** *** *** *** ***

HYDROGRAPH AT STATION 1A
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2125.	12.58	(CFS)	361.	93.	90.	90.
		(INCHES)	1.200	1.241	1.241	1.241
		(AC-FT)	179.	185.	185.	185.

CUMULATIVE AREA = 2.80 SQ MI

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

HYDROGRAPH AT STATION 1A
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1890.	12.58	(CFS)	322.	83.	80.	80.
		(INCHES)	1.070	1.108	1.108	1.108
		(AC-FT)	160.	165.	165.	165.

CUMULATIVE AREA = 2.80 SQ MI

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

HYDROGRAPH AT STATION 1A
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1784.	12.58	(CFS)	305.	79.	76.	76.
		(INCHES)	1.012	1.049	1.049	1.049
		(AC-FT)	151.	157.	157.	157.

CUMULATIVE AREA = 2.80 SQ MI

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

HYDROGRAPH AT STATION 1A
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1536.	12.58	(CFS)	265.	69.	66.	66.
		(INCHES)	.880	.914	.914	.914
		(AC-FT)	131.	136.	136.	136.

CUMULATIVE AREA = 2.80 SQ MI

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INTERPOLATED HYDROGRAPH AT 1A

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	4.	*	1		1230	151	2190.	*	1		1845	226	5.
1		0005	2	0.	*	1		0620	77	4.	*	1		1235	152	2237.	*	1		1850	227	5.
1		0010	3	0.	*	1		0625	78	4.	*	1		1240	153	2176.	*	1		1855	228	5.
1		0015	4	0.	*	1		0630	79	4.	*	1		1245	154	2023.	*	1		1900	229	5.
1		0020	5	0.	*	1		0635	80	4.	*	1		1250	155	1776.	*	1		1905	230	5.
1		0025	6	0.	*	1		0640	81	4.	*	1		1255	156	1522.	*	1		1910	231	5.
1		0030	7	0.	*	1		0645	82	4.	*	1		1300	157	1307.	*	1		1915	232	5.
1		0035	8	0.	*	1		0650	83	4.	*	1		1305	158	1097.	*	1		1920	233	5.
1		0040	9	0.	*	1		0655	84	4.	*	1		1310	159	904.	*	1		1925	234	5.
1		0045	10	0.	*	1		0700	85	4.	*	1		1315	160	742.	*	1		1930	235	5.
1		0050	11	0.	*	1		0705	86	5.	*	1		1320	161	601.	*	1		1935	236	5.
1		0055	12	0.	*	1		0710	87	5.	*	1		1325	162	485.	*	1		1940	237	5.
1		0100	13	0.	*	1		0715	88	5.	*	1		1330	163	400.	*	1		1945	238	4.
1		0105	14	1.	*	1		0720	89	5.	*	1		1335	164	331.	*	1		1950	239	4.
1		0110	15	1.	*	1		0725	90	5.	*	1		1340	165	274.	*	1		1955	240	4.
1		0115	16	1.	*	1		0730	91	5.	*	1		1345	166	221.	*	1		2000	241	4.
1		0120	17	1.	*	1		0735	92	5.	*	1		1350	167	181.	*	1		2005	242	4.
1		0125	18	1.	*	1		0740	93	5.	*	1		1355	168	148.	*	1		2010	243	4.
1		0130	19	2.	*	1		0745	94	5.	*	1		1400	169	122.	*	1		2015	244	4.
1		0135	20	2.	*	1		0750	95	5.	*	1		1405	170	111.	*	1		2020	245	4.
1		0140	21	2.	*	1		0755	96	5.	*	1		1410	171	96.	*	1		2025	246	4.
1		0145	22	2.	*	1		0800	97	5.	*	1		1415	172	83.	*	1		2030	247	4.
1		0150	23	2.	*	1		0805	98	5.	*	1		1420	173	72.	*	1		2035	248	4.
1		0155	24	2.	*	1		0810	99	5.	*	1		1425	174	62.	*	1		2040	249	4.
1		0200	25	2.	*	1		0815	100	5.	*	1		1430	175	52.	*	1		2045	250	4.
1		0205	26	2.	*	1		0820	101	5.	*	1		1435	176	41.	*	1		2050	251	4.
1		0210	27	3.	*	1		0825	102	5.	*	1		1440	177	38.	*	1		2055	252	4.
1		0215	28	3.	*	1		0830	103	5.	*	1		1445	178	34.	*	1		2100	253	4.
1		0220	29	3.	*	1		0835	104	5.	*	1		1450	179	31.	*	1		2105	254	4.
1		0225	30	3.	*	1		0840	105	6.	*	1		1455	180	28.	*	1		2110	255	4.
1		0230	31	3.	*	1		0845	106	6.	*	1		1500	181	25.	*	1		2115	256	4.
1		0235	32	3.	*	1		0850	107	6.	*	1		1505	182	22.	*	1		2120	257	4.
1		0240	33	3.	*	1		0855	108	6.	*	1		1510	183	20.	*	1		2125	258	4.
1		0245	34	3.	*	1		0900	109	6.	*	1		1515	184	18.	*	1		2130	259	4.
1		0250	35	3.	*	1		0905	110	6.	*	1		1520	185	16.	*	1		2135	260	4.
1		0255	36	3.	*	1		0910	111	6.	*	1		1525	186	15.	*	1		2140	261	4.
1		0300	37	3.	*	1		0915	112	6.	*	1		1530	187	14.	*	1		2145	262	4.
1		0305	38	3.	*	1		0920	113	6.	*	1		1535	188	13.	*	1		2150	263	4.
1		0310	39	3.	*	1		0925	114	6.	*	1		1540	189	12.	*	1		2155	264	4.
1		0315	40	3.	*	1		0930	115	6.	*	1		1545	190	11.	*	1		2200	265	4.
1		0320	41	3.	*	1		0935	116	7.	*	1		1550	191	11.	*	1		2205	266	4.
1		0325	42	3.	*	1		0940	117	7.	*	1		1555	192	10.	*	1		2210	267	4.
1		0330	43	3.	*	1		0945	118	7.	*	1		1600	193	10.	*	1		2215	268	4.
1		0335	44	3.	*	1		0950	119	7.	*	1		1605	194	10.	*	1		2220	269	4.
1		0340	45	3.	*	1		0955	120	7.	*	1		1610	195	9.	*	1		2225	270	4.
1		0345	46	3.	*	1		1000	121	7.	*	1		1615	196	9.	*	1		2230	271	3.
1		0350	47	3.	*	1		1005	122	7.	*	1		1620	197	9.	*	1		2235	272	3.
1		0355	48	3.	*	1		1010	123	7.	*	1		1625	198	8.	*	1		2240	273	3.
1		0400	49	3.	*	1		1015	124	8.	*	1		1630	199	8.	*	1		2245	274	3.
1		0405	50	3.	*	1		1020	125	8.	*	1		1635	200	8.	*	1		2250	275	3.
1		0410	51	3.	*	1		1025	126	8.	*	1		1640	201	8.	*	1		2255	276	3.
1		0415	52	3.	*	1		1030	127	8.	*	1		1645	202	8.	*	1		2300	277	3.
1		0420	53	3.	*	1		1035	128	8.	*	1		1650	203	7.	*	1		2305	278	3.
1		0425	54	3.	*	1		1040	129	8.	*	1		1655	204	7.	*	1		2310	279	3.
1		0430	55	3.	*	1		1045	130	9.	*	1		1700	205	7.	*	1		2315	280	3.

1	0435	56	3.	*	1	1050	131	9.	*	1	1705	206	7.	*	1	2320	281	3.
1	0440	57	3.	*	1	1055	132	9.	*	1	1710	207	7.	*	1	2325	282	3.
1	0445	58	4.	*	1	1100	133	9.	*	1	1715	208	7.	*	1	2330	283	3.
1	0450	59	4.	*	1	1105	134	10.	*	1	1720	209	7.	*	1	2335	284	3.
1	0455	60	4.	*	1	1110	135	10.	*	1	1725	210	6.	*	1	2340	285	3.
1	0500	61	4.	*	1	1115	136	10.	*	1	1730	211	6.	*	1	2345	286	3.
1	0505	62	4.	*	1	1120	137	11.	*	1	1735	212	6.	*	1	2350	287	3.
1	0510	63	4.	*	1	1125	138	11.	*	1	1740	213	6.	*	1	2355	288	3.
1	0515	64	4.	*	1	1130	139	12.	*	1	1745	214	6.	*	2	0000	289	3.
1	0520	65	4.	*	1	1135	140	34.	*	1	1750	215	6.	*	2	0005	290	3.
1	0525	66	4.	*	1	1140	141	57.	*	1	1755	216	6.	*	2	0010	291	3.
1	0530	67	4.	*	1	1145	142	108.	*	1	1800	217	6.	*	2	0015	292	3.
1	0535	68	4.	*	1	1150	143	196.	*	1	1805	218	6.	*	2	0020	293	3.
1	0540	69	4.	*	1	1155	144	310.	*	1	1810	219	6.	*	2	0025	294	3.
1	0545	70	4.	*	1	1200	145	453.	*	1	1815	220	6.	*	2	0030	295	3.
1	0550	71	4.	*	1	1205	146	639.	*	1	1820	221	6.	*	2	0035	296	3.
1	0555	72	4.	*	1	1210	147	915.	*	1	1825	222	6.	*	2	0040	297	3.
1	0600	73	4.	*	1	1215	148	1282.	*	1	1830	223	6.	*	2	0045	298	3.
1	0605	74	4.	*	1	1220	149	1677.	*	1	1835	224	5.	*	2	0050	299	3.
1	0610	75	4.	*	1	1225	150	2015.	*	1	1840	225	5.	*	2	0055	300	3.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
2237.	12.58	(CFS)	381.	98.	95.	95.
		(INCHES)	1.265	1.308	1.308	1.308
		(AC-FT)	189.	195.	195.	195.

CUMULATIVE AREA = 2.80 SQ MI

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          **************
          *            *
55 KK     *     1A-2A  *       Routing thru A3
          *            *
          **************
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56 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

HYDROGRAPH ROUTING DATA

57 RS STORAGE ROUTING

NSTPS	9	NUMBER OF SUBREACHES
ITYP	FLOW	TYPE OF INITIAL CONDITION
RSVRIC	.00	INITIAL CONDITION

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                X         .00 WORKING R AND D COEFFICIENT

58 RC          NORMAL DEPTH CHANNEL
                    ANL        .050  LEFT OVERBANK N-VALUE
                   ANCH        .043  MAIN CHANNEL N-VALUE
                    ANR        .050  RIGHT OVERBANK N-VALUE
                  RLNTH      17480.  REACH LENGTH
                    SEL       .0132  ENERGY SLOPE
                  ELMAX          .0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                      CROSS-SECTION DATA
                          --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
60 RY        ELEVATION     20.00     19.00     18.00     10.00     10.00     20.00     21.00     22.00
59 RX        DISTANCE        .00     20.00     30.00    165.00    186.00    346.00    361.00    381.00

                                                ***

                                      COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

      STORAGE        .00      7.95     21.17     39.65     63.39     92.39    126.65    166.18    210.97    261.02
      OUTFLOW        .00     47.90    187.07    439.66    828.51   1375.01   2099.28   3020.38   4156.53   5525.21
    ELEVATION      10.00     10.63     11.26     11.89     12.53     13.16     13.79     14.42     15.05     15.68

      STORAGE     316.34    376.91    442.75    513.79    589.24    669.30    755.02    844.31    936.14   1031.10
      OUTFLOW    7143.27   9027.02  11192.29  13760.24  16839.72  20223.92  24020.52  28599.82  33538.85  38841.48
    ELEVATION      16.32     16.95     17.58     18.21     18.84     19.47     20.11     20.74     21.37     22.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN     9027. TO    38841.
                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.)

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

                          HYDROGRAPH AT STATION    1A-2A
                        TRANSPOSITION AREA       .0 SQ MI

PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
  (CFS)       (HR)                6-HR        24-HR        72-HR     24.92-HR
  2004.      13.17      (CFS)      391.         101.          97.         97.
                        (INCHES)   1.300        1.341        1.341       1.341
                        (AC-FT)    194.         200.         200.        200.

PEAK STORAGE  TIME                          MAXIMUM AVERAGE STORAGE
  (AC-FT)     (HR)                6-HR        24-HR        72-HR     24.92-HR
     14.      13.17                 3.           1.           1.          1.

PEAK STAGE    TIME                          MAXIMUM AVERAGE STAGE
  (FEET)      (HR)                6-HR        24-HR        72-HR     24.92-HR
   13.71      13.17               11.27        10.36        10.34       10.34

                        CUMULATIVE AREA =    2.80 SQ MI

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

                          HYDROGRAPH AT STATION    1A-2A
                        TRANSPOSITION AREA      5.0 SQ MI

PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
```

(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
1941.	13.17	(CFS)	380.	98.	94.	94.
		(INCHES)	1.261	1.301	1.301	1.301
		(AC-FT)	188.	194.	194.	194.

PEAK STORAGE	TIME		MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)		6-HR	24-HR	72-HR	24.92-HR
13.	13.17		3.	1.	1.	1.

PEAK STAGE	TIME		MAXIMUM AVERAGE STAGE			
(FEET)	(HR)		6-HR	24-HR	72-HR	24.92-HR
13.65	13.17		11.25	10.35	10.34	10.34

CUMULATIVE AREA = 2.80 SQ MI

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

HYDROGRAPH AT STATION 1A-2A
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
1842.	13.17	(CFS)	361.	93.	90.	90.
		(INCHES)	1.199	1.238	1.238	1.238
		(AC-FT)	179.	185.	185.	185.

PEAK STORAGE	TIME		MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)		6-HR	24-HR	72-HR	24.92-HR
13.	13.17		3.	1.	1.	1.

PEAK STAGE	TIME		MAXIMUM AVERAGE STAGE			
(FEET)	(HR)		6-HR	24-HR	72-HR	24.92-HR
13.56	13.17		11.22	10.34	10.33	10.33

CUMULATIVE AREA = 2.80 SQ MI

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

HYDROGRAPH AT STATION 1A-2A
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
1620.	13.25	(CFS)	322.	83.	80.	80.
		(INCHES)	1.069	1.105	1.105	1.105
		(AC-FT)	160.	165.	165.	165.

PEAK STORAGE	TIME		MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)		6-HR	24-HR	72-HR	24.92-HR
12.	13.25		3.	1.	1.	1.

PEAK STAGE	TIME		MAXIMUM AVERAGE STAGE			
(FEET)	(HR)		6-HR	24-HR	72-HR	24.92-HR
13.37	13.25		11.16	10.33	10.31	10.31

CUMULATIVE AREA = 2.80 SQ MI

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

HYDROGRAPH AT STATION 1A-2A
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1527.	13.25	(CFS)	304.	79.	76.	76.
		(INCHES)	1.011	1.046	1.046	1.046
		(AC-FT)	151.	156.	156.	156.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
11.	13.25	3.	1.	1.	1.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
13.29	13.25	11.13	10.32	10.31	10.31

CUMULATIVE AREA = 2.80 SQ MI

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

HYDROGRAPH AT STATION 1A-2A
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1301.	13.25	(CFS)	265.	69.	66.	66.
		(INCHES)	.879	.911	.911	.911
		(AC-FT)	131.	136.	136.	136.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
10.	13.25	2.	1.	1.	1.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
13.07	13.25	11.06	10.30	10.29	10.29

CUMULATIVE AREA = 2.80 SQ MI

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INTERPOLATED HYDROGRAPH AT 1A-2A

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	3.	*	1		1230	151	26.	*	1		1845	226	9.
1		0005	2	0.	*	1		0620	77	3.	*	1		1235	152	71.	*	1		1850	227	8.
1		0010	3	0.	*	1		0625	78	3.	*	1		1240	153	209.	*	1		1855	228	8.
1		0015	4	0.	*	1		0630	79	3.	*	1		1245	154	490.	*	1		1900	229	8.
1		0020	5	0.	*	1		0635	80	4.	*	1		1250	155	891.	*	1		1905	230	8.
1		0025	6	0.	*	1		0640	81	4.	*	1		1255	156	1318.	*	1		1910	231	7.
1		0030	7	0.	*	1		0645	82	4.	*	1		1300	157	1666.	*	1		1915	232	7.
1		0035	8	0.	*	1		0650	83	4.	*	1		1305	158	1871.	*	1		1920	233	7.

1	0040	9	0.	*	1	0655	84	4.	*	1	1310	159	1947.	*	1	1925	234	7.
1	0045	10	0.	*	1	0700	85	4.	*	1	1315	160	1922.	*	1	1930	235	7.
1	0050	11	0.	*	1	0705	86	4.	*	1	1320	161	1823.	*	1	1935	236	7.
1	0055	12	0.	*	1	0710	87	4.	*	1	1325	162	1677.	*	1	1940	237	6.
1	0100	13	0.	*	1	0715	88	4.	*	1	1330	163	1512.	*	1	1945	238	6.
1	0105	14	0.	*	1	0720	89	4.	*	1	1335	164	1353.	*	1	1950	239	6.
1	0110	15	0.	*	1	0725	90	4.	*	1	1340	165	1209.	*	1	1955	240	6.
1	0115	16	0.	*	1	0730	91	4.	*	1	1345	166	1063.	*	1	2000	241	6.
1	0120	17	0.	*	1	0735	92	4.	*	1	1350	167	928.	*	1	2005	242	6.
1	0125	18	0.	*	1	0740	93	4.	*	1	1355	168	813.	*	1	2010	243	6.
1	0130	19	0.	*	1	0745	94	4.	*	1	1400	169	719.	*	1	2015	244	6.
1	0135	20	0.	*	1	0750	95	4.	*	1	1405	170	628.	*	1	2020	245	6.
1	0140	21	0.	*	1	0755	96	4.	*	1	1410	171	546.	*	1	2025	246	6.
1	0145	22	0.	*	1	0800	97	4.	*	1	1415	172	476.	*	1	2030	247	6.
1	0150	23	0.	*	1	0805	98	4.	*	1	1420	173	421.	*	1	2035	248	5.
1	0155	24	0.	*	1	0810	99	4.	*	1	1425	174	375.	*	1	2040	249	5.
1	0200	25	0.	*	1	0815	100	4.	*	1	1430	175	331.	*	1	2045	250	5.
1	0205	26	0.	*	1	0820	101	4.	*	1	1435	176	289.	*	1	2050	251	5.
1	0210	27	0.	*	1	0825	102	4.	*	1	1440	177	253.	*	1	2055	252	5.
1	0215	28	0.	*	1	0830	103	4.	*	1	1445	178	223.	*	1	2100	253	5.
1	0220	29	0.	*	1	0835	104	4.	*	1	1450	179	199.	*	1	2105	254	5.
1	0225	30	0.	*	1	0840	105	4.	*	1	1455	180	181.	*	1	2110	255	5.
1	0230	31	0.	*	1	0845	106	4.	*	1	1500	181	166.	*	1	2115	256	5.
1	0235	32	0.	*	1	0850	107	4.	*	1	1505	182	151.	*	1	2120	257	5.
1	0240	33	0.	*	1	0855	108	4.	*	1	1510	183	136.	*	1	2125	258	5.
1	0245	34	1.	*	1	0900	109	4.	*	1	1515	184	122.	*	1	2130	259	5.
1	0250	35	1.	*	1	0905	110	4.	*	1	1520	185	108.	*	1	2135	260	5.
1	0255	36	1.	*	1	0910	111	5.	*	1	1525	186	96.	*	1	2140	261	5.
1	0300	37	1.	*	1	0915	112	5.	*	1	1530	187	86.	*	1	2145	262	5.
1	0305	38	1.	*	1	0920	113	5.	*	1	1535	188	76.	*	1	2150	263	5.
1	0310	39	1.	*	1	0925	114	5.	*	1	1540	189	68.	*	1	2155	264	5.
1	0315	40	1.	*	1	0930	115	5.	*	1	1545	190	62.	*	1	2200	265	4.
1	0320	41	1.	*	1	0935	116	5.	*	1	1550	191	57.	*	1	2205	266	4.
1	0325	42	1.	*	1	0940	117	5.	*	1	1555	192	53.	*	1	2210	267	4.
1	0330	43	1.	*	1	0945	118	5.	*	1	1600	193	50.	*	1	2215	268	4.
1	0335	44	2.	*	1	0950	119	5.	*	1	1605	194	48.	*	1	2220	269	4.
1	0340	45	2.	*	1	0955	120	5.	*	1	1610	195	47.	*	1	2225	270	4.
1	0345	46	2.	*	1	1000	121	5.	*	1	1615	196	45.	*	1	2230	271	4.
1	0350	47	2.	*	1	1005	122	5.	*	1	1620	197	44.	*	1	2235	272	4.
1	0355	48	2.	*	1	1010	123	5.	*	1	1625	198	42.	*	1	2240	273	4.
1	0400	49	2.	*	1	1015	124	5.	*	1	1630	199	40.	*	1	2245	274	4.
1	0405	50	2.	*	1	1020	125	5.	*	1	1635	200	38.	*	1	2250	275	4.
1	0410	51	2.	*	1	1025	126	5.	*	1	1640	201	36.	*	1	2255	276	4.
1	0415	52	2.	*	1	1030	127	5.	*	1	1645	202	34.	*	1	2300	277	4.
1	0420	53	2.	*	1	1035	128	6.	*	1	1650	203	32.	*	1	2305	278	4.
1	0425	54	3.	*	1	1040	129	6.	*	1	1655	204	30.	*	1	2310	279	4.
1	0430	55	3.	*	1	1045	130	6.	*	1	1700	205	28.	*	1	2315	280	4.
1	0435	56	3.	*	1	1050	131	6.	*	1	1705	206	27.	*	1	2320	281	4.
1	0440	57	3.	*	1	1055	132	6.	*	1	1710	207	25.	*	1	2325	282	4.
1	0445	58	3.	*	1	1100	133	6.	*	1	1715	208	23.	*	1	2330	283	4.
1	0450	59	3.	*	1	1105	134	6.	*	1	1720	209	22.	*	1	2335	284	4.
1	0455	60	3.	*	1	1110	135	6.	*	1	1725	210	20.	*	1	2340	285	4.
1	0500	61	3.	*	1	1115	136	6.	*	1	1730	211	19.	*	1	2345	286	4.
1	0505	62	3.	*	1	1120	137	6.	*	1	1735	212	18.	*	1	2350	287	4.
1	0510	63	3.	*	1	1125	138	6.	*	1	1740	213	17.	*	1	2355	288	4.
1	0515	64	3.	*	1	1130	139	7.	*	1	1745	214	16.	*	2	0000	289	4.
1	0520	65	3.	*	1	1135	140	7.	*	1	1750	215	15.	*	2	0005	290	4.
1	0525	66	3.	*	1	1140	141	7.	*	1	1755	216	14.	*	2	0010	291	4.
1	0530	67	3.	*	1	1145	142	7.	*	1	1800	217	13.	*	2	0015	292	4.
1	0535	68	3.	*	1	1150	143	7.	*	1	1805	218	12.	*	2	0020	293	4.

1	0540	69	3.	*	1	1155	144	7.	*	1	1810	219	12.	*	2	0025	294	4.
1	0545	70	3.	*	1	1200	145	7.	*	1	1815	220	11.	*	2	0030	295	3.
1	0550	71	3.	*	1	1205	146	8.	*	1	1820	221	10.	*	2	0035	296	3.
1	0555	72	3.	*	1	1210	147	8.	*	1	1825	222	10.	*	2	0040	297	3.
1	0600	73	3.	*	1	1215	148	8.	*	1	1830	223	10.	*	2	0045	298	3.
1	0605	74	3.	*	1	1220	149	10.	*	1	1835	224	9.	*	2	0050	299	3.
1	0610	75	3.	*	1	1225	150	13.	*	1	1840	225	9.	*	2	0055	300	3.
				*					*					*				

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1947.	13.17	(CFS)	381.	98.	95.	95.
		(INCHES)	1.264	1.304	1.304	1.304
		(AC-FT)	189.	195.	195.	195.

CUMULATIVE AREA = 2.80 SQ MI

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          *            *
61 KK     *        A3  *
          *            *
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BASIN A3
THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
L= 3.3 Lca= 1.9 S= 69.0 Kn= .045 LAG= 58.0
PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN

66 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

SUBBASIN RUNOFF DATA

67 BA SUBBASIN CHARACTERISTICS

TAREA	3.64	SUBBASIN AREA

68 LG GREEN AND AMPT LOSS RATE

STRTL	.17	STARTING LOSS
DTH	.35	MOISTURE DEFICIT
PSIF	4.08	WETTING FRONT SUCTION
XKSAT	.38	HYDRAULIC CONDUCTIVITY
RTIMP	.00	PERCENT IMPERVIOUS AREA

67 UI INPUT UNITGRAPH, 34 ORDINATES, VOLUME = 1.00

211.0	211.0	371.0	754.0	958.0	1111.0	1247.0	1417.0	1623.0	1981.0
2583.0	2566.0	2106.0	1829.0	1628.0	1405.0	1227.0	1056.0	892.0	649.0

406.0 364.0 347.0 248.0 211.0 202.0 65.0 65.0 65.0 65.0
65.0 65.0 65.0 65.0

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HYDROGRAPH AT STATION A3
TRANSPOSITION AREA .0 SQ MI

TOTAL RAINFALL = 4.20, TOTAL LOSS = 3.02, TOTAL EXCESS = 1.18

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2509.	12.75	(CFS)	462.	116.	111.	111.
		(INCHES)	1.181	1.181	1.181	1.181
		(AC-FT)	229.	229.	229.	229.

CUMULATIVE AREA = 3.64 SQ MI

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

HYDROGRAPH AT STATION A3
TRANSPOSITION AREA 5.0 SQ MI

TOTAL RAINFALL = 4.12, TOTAL LOSS = 2.97, TOTAL EXCESS = 1.15

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2437.	12.75	(CFS)	449.	112.	108.	108.
		(INCHES)	1.147	1.147	1.147	1.147
		(AC-FT)	223.	223.	223.	223.

CUMULATIVE AREA = 3.64 SQ MI

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HYDROGRAPH AT STATION A3
TRANSPOSITION AREA 10.0 SQ MI

TOTAL RAINFALL = 3.99, TOTAL LOSS = 2.90, TOTAL EXCESS = 1.09

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2319.	12.75	(CFS)	427.	107.	103.	103.
		(INCHES)	1.091	1.091	1.091	1.091
		(AC-FT)	212.	212.	212.	212.

CUMULATIVE AREA = 3.64 SQ MI

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HYDROGRAPH AT STATION A3
TRANSPOSITION AREA 50.0 SQ MI

TOTAL RAINFALL = 3.70, TOTAL LOSS = 2.73, TOTAL EXCESS = .97

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2053.	12.75	(CFS)	378.	94.	91.	91.
		(INCHES)	.965	.965	.965	.965
		(AC-FT)	187.	187.	187.	187.

CUMULATIVE AREA = 3.64 SQ MI

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HYDROGRAPH AT STATION A3
TRANSPOSITION AREA 100.0 SQ MI

TOTAL RAINFALL = 3.57, TOTAL LOSS = 2.66, TOTAL EXCESS = .91

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1933.	12.75	(CFS)	355.	89.	86.	86.
		(INCHES)	.908	.908	.908	.908
		(AC-FT)	176.	176.	176.	176.

CUMULATIVE AREA = 3.64 SQ MI

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HYDROGRAPH AT STATION A3
TRANSPOSITION AREA 500.0 SQ MI

TOTAL RAINFALL = 3.28, TOTAL LOSS = 2.50, TOTAL EXCESS = .78

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1661.	12.75	(CFS)	305.	76.	73.	73.
		(INCHES)	.779	.779	.779	.779
		(AC-FT)	151.	151.	151.	151.

CUMULATIVE AREA = 3.64 SQ MI

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INTERPOLATED HYDROGRAPH AT A3

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	0.	1		1230	151	2179.	1		1845	226	0.
1		0005	2	0.	1		0620	77	0.	1		1235	152	2348.	1		1850	227	0.
1		0010	3	0.	1		0625	78	0.	1		1240	153	2433.	1		1855	228	0.
1		0015	4	0.	1		0630	79	0.	1		1245	154	2440.	1		1900	229	0.
1		0020	5	0.	1		0635	80	0.	1		1250	155	2334.	1		1905	230	0.
1		0025	6	0.	1		0640	81	0.	1		1255	156	2074.	1		1910	231	0.
1		0030	7	0.	1		0645	82	0.	1		1300	157	1783.	1		1915	232	0.
1		0035	8	0.	1		0650	83	0.	1		1305	158	1549.	1		1920	233	0.
1		0040	9	0.	1		0655	84	0.	1		1310	159	1323.	1		1925	234	0.
1		0045	10	0.	1		0700	85	0.	1		1315	160	1089.	1		1930	235	0.
1		0050	11	0.	1		0705	86	0.	1		1320	161	888.	1		1935	236	0.

1	0055	12	0.	*	1	0710	87	0.	*	1	1325	162	718.	*	1	1940	237	0.
1	0100	13	0.	*	1	0715	88	0.	*	1	1330	163	562.	*	1	1945	238	0.
1	0105	14	0.	*	1	0720	89	0.	*	1	1335	164	430.	*	1	1950	239	0.
1	0110	15	0.	*	1	0725	90	0.	*	1	1340	165	343.	*	1	1955	240	0.
1	0115	16	0.	*	1	0730	91	0.	*	1	1345	166	278.	*	1	2000	241	0.
1	0120	17	0.	*	1	0735	92	0.	*	1	1350	167	220.	*	1	2005	242	0.
1	0125	18	0.	*	1	0740	93	0.	*	1	1355	168	166.	*	1	2010	243	0.
1	0130	19	0.	*	1	0745	94	0.	*	1	1400	169	130.	*	1	2015	244	0.
1	0135	20	0.	*	1	0750	95	0.	*	1	1405	170	102.	*	1	2020	245	0.
1	0140	21	0.	*	1	0755	96	0.	*	1	1410	171	75.	*	1	2025	246	0.
1	0145	22	0.	*	1	0800	97	0.	*	1	1415	172	75.	*	1	2030	247	0.
1	0150	23	0.	*	1	0805	98	0.	*	1	1420	173	75.	*	1	2035	248	0.
1	0155	24	0.	*	1	0810	99	0.	*	1	1425	174	63.	*	1	2040	249	0.
1	0200	25	0.	*	1	0815	100	0.	*	1	1430	175	50.	*	1	2045	250	0.
1	0205	26	0.	*	1	0820	101	0.	*	1	1435	176	38.	*	1	2050	251	0.
1	0210	27	0.	*	1	0825	102	0.	*	1	1440	177	25.	*	1	2055	252	0.
1	0215	28	0.	*	1	0830	103	0.	*	1	1445	178	13.	*	1	2100	253	0.
1	0220	29	0.	*	1	0835	104	0.	*	1	1450	179	0.	*	1	2105	254	0.
1	0225	30	0.	*	1	0840	105	0.	*	1	1455	180	0.	*	1	2110	255	0.
1	0230	31	0.	*	1	0845	106	0.	*	1	1500	181	0.	*	1	2115	256	0.
1	0235	32	0.	*	1	0850	107	0.	*	1	1505	182	0.	*	1	2120	257	0.
1	0240	33	0.	*	1	0855	108	0.	*	1	1510	183	0.	*	1	2125	258	0.
1	0245	34	0.	*	1	0900	109	0.	*	1	1515	184	0.	*	1	2130	259	0.
1	0250	35	0.	*	1	0905	110	0.	*	1	1520	185	0.	*	1	2135	260	0.
1	0255	36	0.	*	1	0910	111	0.	*	1	1525	186	0.	*	1	2140	261	0.
1	0300	37	0.	*	1	0915	112	0.	*	1	1530	187	0.	*	1	2145	262	0.
1	0305	38	0.	*	1	0920	113	0.	*	1	1535	188	0.	*	1	2150	263	0.
1	0310	39	0.	*	1	0925	114	0.	*	1	1540	189	0.	*	1	2155	264	0.
1	0315	40	0.	*	1	0930	115	0.	*	1	1545	190	0.	*	1	2200	265	0.
1	0320	41	0.	*	1	0935	116	0.	*	1	1550	191	0.	*	1	2205	266	0.
1	0325	42	0.	*	1	0940	117	0.	*	1	1555	192	0.	*	1	2210	267	0.
1	0330	43	0.	*	1	0945	118	0.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	0.	*	1	0950	119	0.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	0.	*	1	0955	120	0.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	0.	*	1	1000	121	0.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	0.	*	1	1005	122	0.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	0.	*	1	1010	123	0.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	0.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	0.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	0.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	0.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	0.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	0.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	0.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	0.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	0.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	0.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	0.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	0.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	0.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	0.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	0.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	0.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	0.	*	1	1135	140	39.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	0.	*	1	1140	141	79.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	0.	*	1	1145	142	149.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	0.	*	1	1150	143	291.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	0.	*	1	1155	144	473.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	0.	*	1	1200	145	686.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	0.	*	1	1205	146	884.	*	1	1820	221	0.	*	2	0035	296	0.

1	0555	72	0.	*	1	1210	147	1116.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	0.	*	1	1215	148	1358.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	0.	*	1	1220	149	1592.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	0.	*	1	1225	150	1900.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*					

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
2440.	12.75	(CFS)	450.	112.	108.	108.
		(INCHES)	1.148	1.148	1.148	1.148
		(AC-FT)	223.	223.	223.	223.

CUMULATIVE AREA = 3.64 SQ MI

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* *
74 KK * 2A *
* *
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Combining A1+A2 & A3

76 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

77 HC HYDROGRAPH COMBINATION

ICOMP	2	NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 2A
TRANSPOSITION AREA .0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
3565.	13.00	(CFS)	853.	217.	209.	209.
		(INCHES)	1.231	1.250	1.250	1.250
		(AC-FT)	423.	429.	429.	429.

CUMULATIVE AREA = 6.44 SQ MI

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HYDROGRAPH AT STATION 2A
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
3439.	13.00	(CFS)	828.	210.	202.	202.
		(INCHES)	1.195	1.214	1.214	1.214
		(AC-FT)	410.	417.	417.	417.

CUMULATIVE AREA = 6.44 SQ MI

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

HYDROGRAPH AT STATION 2A
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
3234.	13.00	(CFS)	787.	200.	193.	193.
		(INCHES)	1.136	1.155	1.155	1.155
		(AC-FT)	390.	397.	397.	397.

CUMULATIVE AREA = 6.44 SQ MI

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

HYDROGRAPH AT STATION 2A
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2808.	13.08	(CFS)	699.	178.	171.	171.
		(INCHES)	1.009	1.026	1.026	1.026
		(AC-FT)	347.	352.	352.	352.

CUMULATIVE AREA = 6.44 SQ MI

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

HYDROGRAPH AT STATION 2A
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2609.	13.08	(CFS)	659.	168.	161.	161.
		(INCHES)	.951	.968	.968	.968
		(AC-FT)	327.	332.	332.	332.

CUMULATIVE AREA = 6.44 SQ MI

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HYDROGRAPH AT STATION 2A
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW TIME MAXIMUM AVERAGE FLOW

(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
2170.	13.08	(CFS)	569.	145.	139.	139.
		(INCHES)	.821	.836	.836	.836
		(AC-FT)	282.	287.	287.	287.

CUMULATIVE AREA = 6.44 SQ MI

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INTERPOLATED HYDROGRAPH AT 2A

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	3.	*	1		1230	151	2160.	*	1		1845	226	8.
1		0005	2	0.	*	1		0620	77	3.	*	1		1235	152	2368.	*	1		1850	227	8.
1		0010	3	0.	*	1		0625	78	3.	*	1		1240	153	2583.	*	1		1855	228	8.
1		0015	4	0.	*	1		0630	79	3.	*	1		1245	154	2858.	*	1		1900	229	8.
1		0020	5	0.	*	1		0635	80	3.	*	1		1250	155	3143.	*	1		1905	230	7.
1		0025	6	0.	*	1		0640	81	3.	*	1		1255	156	3307.	*	1		1910	231	7.
1		0030	7	0.	*	1		0645	82	4.	*	1		1300	157	3364.	*	1		1915	232	7.
1		0035	8	0.	*	1		0650	83	4.	*	1		1305	158	3344.	*	1		1920	233	7.
1		0040	9	0.	*	1		0655	84	4.	*	1		1310	159	3202.	*	1		1925	234	7.
1		0045	10	0.	*	1		0700	85	4.	*	1		1315	160	2951.	*	1		1930	235	7.
1		0050	11	0.	*	1		0705	86	4.	*	1		1320	161	2659.	*	1		1935	236	7.
1		0055	12	0.	*	1		0710	87	4.	*	1		1325	162	2351.	*	1		1940	237	6.
1		0100	13	0.	*	1		0715	88	4.	*	1		1330	163	2037.	*	1		1945	238	6.
1		0105	14	0.	*	1		0720	89	4.	*	1		1335	164	1754.	*	1		1950	239	6.
1		0110	15	0.	*	1		0725	90	4.	*	1		1340	165	1526.	*	1		1955	240	6.
1		0115	16	0.	*	1		0730	91	4.	*	1		1345	166	1318.	*	1		2000	241	6.
1		0120	17	0.	*	1		0735	92	4.	*	1		1350	167	1129.	*	1		2005	242	6.
1		0125	18	0.	*	1		0740	93	4.	*	1		1355	168	964.	*	1		2010	243	6.
1		0130	19	0.	*	1		0745	94	4.	*	1		1400	169	836.	*	1		2015	244	6.
1		0135	20	0.	*	1		0750	95	4.	*	1		1405	170	718.	*	1		2020	245	6.
1		0140	21	0.	*	1		0755	96	4.	*	1		1410	171	611.	*	1		2025	246	6.
1		0145	22	0.	*	1		0800	97	4.	*	1		1415	172	543.	*	1		2030	247	5.
1		0150	23	0.	*	1		0805	98	4.	*	1		1420	173	489.	*	1		2035	248	5.
1		0155	24	0.	*	1		0810	99	4.	*	1		1425	174	432.	*	1		2040	249	5.
1		0200	25	0.	*	1		0815	100	4.	*	1		1430	175	375.	*	1		2045	250	5.
1		0205	26	0.	*	1		0820	101	4.	*	1		1435	176	322.	*	1		2050	251	5.
1		0210	27	0.	*	1		0825	102	4.	*	1		1440	177	274.	*	1		2055	252	5.
1		0215	28	0.	*	1		0830	103	4.	*	1		1445	178	232.	*	1		2100	253	5.
1		0220	29	0.	*	1		0835	104	4.	*	1		1450	179	196.	*	1		2105	254	5.
1		0225	30	0.	*	1		0840	105	4.	*	1		1455	180	179.	*	1		2110	255	5.
1		0230	31	0.	*	1		0845	106	4.	*	1		1500	181	164.	*	1		2115	256	5.
1		0235	32	0.	*	1		0850	107	4.	*	1		1505	182	149.	*	1		2120	257	5.
1		0240	33	0.	*	1		0855	108	4.	*	1		1510	183	134.	*	1		2125	258	5.
1		0245	34	1.	*	1		0900	109	4.	*	1		1515	184	120.	*	1		2130	259	5.
1		0250	35	1.	*	1		0905	110	4.	*	1		1520	185	107.	*	1		2135	260	5.
1		0255	36	1.	*	1		0910	111	4.	*	1		1525	186	95.	*	1		2140	261	5.
1		0300	37	1.	*	1		0915	112	5.	*	1		1530	187	85.	*	1		2145	262	5.
1		0305	38	1.	*	1		0920	113	5.	*	1		1535	188	75.	*	1		2150	263	4.
1		0310	39	1.	*	1		0925	114	5.	*	1		1540	189	68.	*	1		2155	264	4.
1		0315	40	1.	*	1		0930	115	5.	*	1		1545	190	61.	*	1		2200	265	4.
1		0320	41	1.	*	1		0935	116	5.	*	1		1550	191	56.	*	1		2205	266	4.
1		0325	42	1.	*	1		0940	117	5.	*	1		1555	192	53.	*	1		2210	267	4.
1		0330	43	1.	*	1		0945	118	5.	*	1		1600	193	50.	*	1		2215	268	4.
1		0335	44	2.	*	1		0950	119	5.	*	1		1605	194	48.	*	1		2220	269	4.

1	0340	45	2.	*	1	0955	120	5.	*	1	1610	195	46.	*	1	2225	270	4.
1	0345	46	2.	*	1	1000	121	5.	*	1	1615	196	45.	*	1	2230	271	4.
1	0350	47	2.	*	1	1005	122	5.	*	1	1620	197	43.	*	1	2235	272	4.
1	0355	48	2.	*	1	1010	123	5.	*	1	1625	198	42.	*	1	2240	273	4.
1	0400	49	2.	*	1	1015	124	5.	*	1	1630	199	40.	*	1	2245	274	4.
1	0405	50	2.	*	1	1020	125	5.	*	1	1635	200	38.	*	1	2250	275	4.
1	0410	51	2.	*	1	1025	126	5.	*	1	1640	201	36.	*	1	2255	276	4.
1	0415	52	2.	*	1	1030	127	5.	*	1	1645	202	34.	*	1	2300	277	4.
1	0420	53	2.	*	1	1035	128	5.	*	1	1650	203	32.	*	1	2305	278	4.
1	0425	54	2.	*	1	1040	129	6.	*	1	1655	204	30.	*	1	2310	279	4.
1	0430	55	3.	*	1	1045	130	6.	*	1	1700	205	28.	*	1	2315	280	4.
1	0435	56	3.	*	1	1050	131	6.	*	1	1705	206	26.	*	1	2320	281	4.
1	0440	57	3.	*	1	1055	132	6.	*	1	1710	207	25.	*	1	2325	282	4.
1	0445	58	3.	*	1	1100	133	6.	*	1	1715	208	23.	*	1	2330	283	4.
1	0450	59	3.	*	1	1105	134	6.	*	1	1720	209	22.	*	1	2335	284	4.
1	0455	60	3.	*	1	1110	135	6.	*	1	1725	210	20.	*	1	2340	285	4.
1	0500	61	3.	*	1	1115	136	6.	*	1	1730	211	19.	*	1	2345	286	4.
1	0505	62	3.	*	1	1120	137	6.	*	1	1735	212	18.	*	1	2350	287	4.
1	0510	63	3.	*	1	1125	138	6.	*	1	1740	213	16.	*	1	2355	288	4.
1	0515	64	3.	*	1	1130	139	6.	*	1	1745	214	15.	*	2	0000	289	4.
1	0520	65	3.	*	1	1135	140	45.	*	1	1750	215	14.	*	2	0005	290	4.
1	0525	66	3.	*	1	1140	141	84.	*	1	1755	216	14.	*	2	0010	291	4.
1	0530	67	3.	*	1	1145	142	153.	*	1	1800	217	13.	*	2	0015	292	4.
1	0535	68	3.	*	1	1150	143	292.	*	1	1805	218	12.	*	2	0020	293	3.
1	0540	69	3.	*	1	1155	144	471.	*	1	1810	219	11.	*	2	0025	294	3.
1	0545	70	3.	*	1	1200	145	679.	*	1	1815	220	11.	*	2	0030	295	3.
1	0550	71	3.	*	1	1205	146	874.	*	1	1820	221	10.	*	2	0035	296	3.
1	0555	72	3.	*	1	1210	147	1102.	*	1	1825	222	10.	*	2	0040	297	3.
1	0600	73	3.	*	1	1215	148	1339.	*	1	1830	223	9.	*	2	0045	298	3.
1	0605	74	3.	*	1	1220	149	1570.	*	1	1835	224	9.	*	2	0050	299	3.
1	0610	75	3.	*	1	1225	150	1876.	*	1	1840	225	9.	*	2	0055	300	3.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
3364.	13.00	(CFS)	813.	206.	199.	199.
		(INCHES)	1.174	1.192	1.192	1.192
		(AC-FT)	403.	409.	409.	409.

CUMULATIVE AREA = 6.44 SQ MI

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          *             *
78 KK     *       B1    *
          *             *
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BASIN B1
THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
L= 2.0 Lca= 1.1 S= 289.0 Kn= .050 LAG= 33.0
PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN

83 KO OUTPUT CONTROL VARIABLES
IPRNT 2 PRINT CONTROL

IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

SUBBASIN RUNOFF DATA

84 BA SUBBASIN CHARACTERISTICS

TAREA	.55	SUBBASIN AREA

85 LG GREEN AND AMPT LOSS RATE

STRTL	.23	STARTING LOSS
DTH	.35	MOISTURE DEFICIT
PSIF	4.18	WETTING FRONT SUCTION
XKSAT	.45	HYDRAULIC CONDUCTIVITY
RTIMP	7.00	PERCENT IMPERVIOUS AREA

84 UI INPUT UNITGRAPH, 30 ORDINATES, VOLUME = .99

56.0	106.0	249.0	366.0	453.0	624.0	404.0	326.0	281.0	240.0
201.0	157.0	133.0	119.0	90.0	71.0	62.0	52.0	43.0	34.0
27.0	27.0	20.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0

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HYDROGRAPH AT STATION B1
TRANSPOSITION AREA .0 SQ MI

TOTAL RAINFALL = 4.20, TOTAL LOSS = 2.89, TOTAL EXCESS = 1.31

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
469.	12.25	(CFS)	72.	19.	19.	19.
		(INCHES)	1.215	1.300	1.301	1.301
		(AC-FT)	36.	38.	38.	38.

CUMULATIVE AREA = .55 SQ MI

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HYDROGRAPH AT STATION B1
TRANSPOSITION AREA 5.0 SQ MI

TOTAL RAINFALL = 4.12, TOTAL LOSS = 2.84, TOTAL EXCESS = 1.28

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
455.	12.25	(CFS)	70.	19.	18.	18.
		(INCHES)	1.179	1.262	1.263	1.263
		(AC-FT)	35.	37.	37.	37.

CUMULATIVE AREA = .55 SQ MI

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HYDROGRAPH AT STATION B1
TRANSPOSITION AREA 10.0 SQ MI

TOTAL RAINFALL = 3.99, TOTAL LOSS = 2.78, TOTAL EXCESS = 1.21

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
431.	12.25	(CFS)	66.	18.	17.	17.
		(INCHES)	1.120	1.201	1.201	1.201
		(AC-FT)	33.	35.	35.	35.

CUMULATIVE AREA = .55 SQ MI

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HYDROGRAPH AT STATION B1
TRANSPOSITION AREA 50.0 SQ MI

TOTAL RAINFALL = 3.70, TOTAL LOSS = 2.63, TOTAL EXCESS = 1.07

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
379.	12.25	(CFS)	58.	16.	15.	15.
		(INCHES)	.986	1.061	1.062	1.062
		(AC-FT)	29.	31.	31.	31.

CUMULATIVE AREA = .55 SQ MI

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HYDROGRAPH AT STATION B1
TRANSPOSITION AREA 100.0 SQ MI

TOTAL RAINFALL = 3.57, TOTAL LOSS = 2.56, TOTAL EXCESS = 1.01

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
355.	12.25	(CFS)	55.	15.	14.	14.
		(INCHES)	.926	.998	.998	.998
		(AC-FT)	27.	29.	29.	29.

CUMULATIVE AREA = .55 SQ MI

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HYDROGRAPH AT STATION B1
TRANSPOSITION AREA 500.0 SQ MI

TOTAL RAINFALL = 3.28, TOTAL LOSS = 2.42, TOTAL EXCESS = .86

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
302.	12.25	(CFS)	47.	13.	12.	12.
		(INCHES)	.788	.855	.855	.855
		(AC-FT)	23.	25.	25.	25.

CUMULATIVE AREA = .55 SQ MI

INTERPOLATED HYDROGRAPH AT B1

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	2.	1		1230	151	308.	1		1845	226	2.
1		0005	2	0.	1		0620	77	2.	1		1235	152	258.	1		1850	227	2.
1		0010	3	0.	1		0625	78	2.	1		1240	153	221.	1		1855	228	2.
1		0015	4	0.	1		0630	79	2.	1		1245	154	185.	1		1900	229	2.
1		0020	5	0.	1		0635	80	2.	1		1250	155	154.	1		1905	230	2.
1		0025	6	0.	1		0640	81	2.	1		1255	156	128.	1		1910	231	2.
1		0030	7	0.	1		0645	82	2.	1		1300	157	108.	1		1915	232	2.
1		0035	8	1.	1		0650	83	2.	1		1305	158	91.	1		1920	233	2.
1		0040	9	1.	1		0655	84	2.	1		1310	159	74.	1		1925	234	2.
1		0045	10	1.	1		0700	85	2.	1		1315	160	62.	1		1930	235	2.
1		0050	11	1.	1		0705	86	2.	1		1320	161	54.	1		1935	236	2.
1		0055	12	1.	1		0710	87	2.	1		1325	162	46.	1		1940	237	2.
1		0100	13	1.	1		0715	88	2.	1		1330	163	38.	1		1945	238	2.
1		0105	14	1.	1		0720	89	2.	1		1335	164	31.	1		1950	239	2.
1		0110	15	1.	1		0725	90	2.	1		1340	165	27.	1		1955	240	2.
1		0115	16	1.	1		0730	91	2.	1		1345	166	23.	1		2000	241	2.
1		0120	17	1.	1		0735	92	2.	1		1350	167	20.	1		2005	242	2.
1		0125	18	1.	1		0740	93	2.	1		1355	168	18.	1		2010	243	2.
1		0130	19	1.	1		0745	94	2.	1		1400	169	18.	1		2015	244	1.
1		0135	20	1.	1		0750	95	2.	1		1405	170	16.	1		2020	245	1.
1		0140	21	1.	1		0755	96	2.	1		1410	171	13.	1		2025	246	1.
1		0145	22	1.	1		0800	97	2.	1		1415	172	11.	1		2030	247	1.
1		0150	23	1.	1		0805	98	2.	1		1420	173	9.	1		2035	248	1.
1		0155	24	1.	1		0810	99	2.	1		1425	174	7.	1		2040	249	1.
1		0200	25	1.	1		0815	100	2.	1		1430	175	4.	1		2045	250	1.
1		0205	26	1.	1		0820	101	2.	1		1435	176	4.	1		2050	251	1.
1		0210	27	1.	1		0825	102	2.	1		1440	177	4.	1		2055	252	1.
1		0215	28	1.	1		0830	103	2.	1		1445	178	4.	1		2100	253	1.
1		0220	29	1.	1		0835	104	2.	1		1450	179	4.	1		2105	254	1.
1		0225	30	1.	1		0840	105	2.	1		1455	180	4.	1		2110	255	1.
1		0230	31	1.	1		0845	106	3.	1		1500	181	4.	1		2115	256	1.
1		0235	32	1.	1		0850	107	3.	1		1505	182	4.	1		2120	257	1.
1		0240	33	1.	1		0855	108	3.	1		1510	183	4.	1		2125	258	1.
1		0245	34	1.	1		0900	109	3.	1		1515	184	3.	1		2130	259	1.
1		0250	35	1.	1		0905	110	3.	1		1520	185	3.	1		2135	260	1.
1		0255	36	1.	1		0910	111	3.	1		1525	186	3.	1		2140	261	1.
1		0300	37	1.	1		0915	112	3.	1		1530	187	3.	1		2145	262	1.
1		0305	38	1.	1		0920	113	3.	1		1535	188	3.	1		2150	263	1.
1		0310	39	1.	1		0925	114	3.	1		1540	189	3.	1		2155	264	1.
1		0315	40	1.	1		0930	115	3.	1		1545	190	3.	1		2200	265	1.
1		0320	41	1.	1		0935	116	3.	1		1550	191	3.	1		2205	266	1.
1		0325	42	1.	1		0940	117	3.	1		1555	192	3.	1		2210	267	1.
1		0330	43	1.	1		0945	118	3.	1		1600	193	3.	1		2215	268	1.
1		0335	44	1.	1		0950	119	3.	1		1605	194	3.	1		2220	269	1.
1		0340	45	1.	1		0955	120	3.	1		1610	195	3.	1		2225	270	1.
1		0345	46	1.	1		1000	121	3.	1		1615	196	3.	1		2230	271	1.
1		0350	47	1.	1		1005	122	3.	1		1620	197	3.	1		2235	272	1.
1		0355	48	1.	1		1010	123	3.	1		1625	198	3.	1		2240	273	1.

1	0400	49	1.	*	1	1015	124	4.	*	1	1630	199	2.	*	1	2245	274	1.
1	0405	50	1.	*	1	1020	125	4.	*	1	1635	200	2.	*	1	2250	275	1.
1	0410	51	1.	*	1	1025	126	4.	*	1	1640	201	2.	*	1	2255	276	1.
1	0415	52	1.	*	1	1030	127	4.	*	1	1645	202	2.	*	1	2300	277	1.
1	0420	53	1.	*	1	1035	128	4.	*	1	1650	203	2.	*	1	2305	278	1.
1	0425	54	1.	*	1	1040	129	4.	*	1	1655	204	2.	*	1	2310	279	1.
1	0430	55	1.	*	1	1045	130	4.	*	1	1700	205	2.	*	1	2315	280	1.
1	0435	56	2.	*	1	1050	131	5.	*	1	1705	206	2.	*	1	2320	281	1.
1	0440	57	2.	*	1	1055	132	5.	*	1	1710	207	2.	*	1	2325	282	1.
1	0445	58	2.	*	1	1100	133	5.	*	1	1715	208	2.	*	1	2330	283	1.
1	0450	59	2.	*	1	1105	134	5.	*	1	1720	209	2.	*	1	2335	284	1.
1	0455	60	2.	*	1	1110	135	6.	*	1	1725	210	2.	*	1	2340	285	1.
1	0500	61	1.	*	1	1115	136	6.	*	1	1730	211	2.	*	1	2345	286	1.
1	0505	62	1.	*	1	1120	137	6.	*	1	1735	212	2.	*	1	2350	287	1.
1	0510	63	1.	*	1	1125	138	7.	*	1	1740	213	2.	*	1	2355	288	1.
1	0515	64	1.	*	1	1130	139	7.	*	1	1745	214	2.	*	2	0000	289	1.
1	0520	65	2.	*	1	1135	140	18.	*	1	1750	215	2.	*	2	0005	290	1.
1	0525	66	2.	*	1	1140	141	37.	*	1	1755	216	2.	*	2	0010	291	1.
1	0530	67	2.	*	1	1145	142	81.	*	1	1800	217	2.	*	2	0015	292	1.
1	0535	68	2.	*	1	1150	143	146.	*	1	1805	218	2.	*	2	0020	293	1.
1	0540	69	2.	*	1	1155	144	228.	*	1	1810	219	2.	*	2	0025	294	1.
1	0545	70	2.	*	1	1200	145	341.	*	1	1815	220	2.	*	2	0030	295	1.
1	0550	71	2.	*	1	1205	146	407.	*	1	1820	221	2.	*	2	0035	296	0.
1	0555	72	2.	*	1	1210	147	451.	*	1	1825	222	2.	*	2	0040	297	0.
1	0600	73	2.	*	1	1215	148	460.	*	1	1830	223	2.	*	2	0045	298	0.
1	0605	74	2.	*	1	1220	149	439.	*	1	1835	224	2.	*	2	0050	299	0.
1	0610	75	2.	*	1	1225	150	394.	*	1	1840	225	2.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
460.	12.25	(CFS)	71.	19.	18.	18.
		(INCHES)	1.192	1.276	1.277	1.277
		(AC-FT)	35.	37.	37.	37.

CUMULATIVE AREA = .55 SQ MI

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         **************
         *            *
91 KK    *     B1-1B  *       Routing thru B2
         *            *
         **************

92 KO          OUTPUT CONTROL VARIABLES
                    IPRNT          2  PRINT CONTROL
                    IPLOT          0  PLOT CONTROL
                    QSCAL         0.  HYDROGRAPH PLOT SCALE
                    IPNCH          0  PUNCH COMPUTED HYDROGRAPH
                     IOUT         22  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
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HYDROGRAPH ROUTING DATA

RS STORAGE ROUTING

NSTPS	7	NUMBER OF SUBREACHES
ITYP	FLOW	TYPE OF INITIAL CONDITION
RSVRIC	.00	INITIAL CONDITION
X	.00	WORKING R AND D COEFFICIENT

94 RC NORMAL DEPTH CHANNEL

ANL	.055	LEFT OVERBANK N-VALUE
ANCH	.042	MAIN CHANNEL N-VALUE
ANR	.055	RIGHT OVERBANK N-VALUE
RLNTH	10400.	REACH LENGTH
SEL	.0173	ENERGY SLOPE
ELMAX	.0	MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

CROSS-SECTION DATA

		--- LEFT OVERBANK ---	+	------ MAIN CHANNEL -------	+	--- RIGHT OVERBANK ---			
96 RY	ELEVATION	20.00	17.00	14.00	10.00	10.00	13.00	17.00	22.00
95 RX	DISTANCE	.00	75.00	140.00	167.00	193.00	226.00	296.00	371.00

***

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	4.77	11.22	19.37	29.21	40.75	54.43	70.74	90.70	114.39
OUTFLOW	.00	61.42	214.62	463.70	819.42	1310.20	1983.60	2857.88	3943.38	5242.51
ELEVATION	10.00	10.63	11.26	11.89	12.53	13.16	13.79	14.42	15.05	15.68
STORAGE	141.81	172.96	207.87	246.59	289.12	335.46	385.58	437.95	491.75	546.98
OUTFLOW	6777.23	8567.56	10634.75	12996.03	15668.87	18670.42	22053.97	25975.83	30249.06	34870.38
ELEVATION	16.32	16.95	17.58	18.21	18.84	19.47	20.11	20.74	21.37	22.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 819. TO 34870.
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 B1-1B
TRANSPOSITION AREA .0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
418.	12.67	(CFS)	72.	19.	19.	19.
		(INCHES)	1.215	1.299	1.299	1.299
		(AC-FT)	36.	38.	38.	38.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
3.	12.67	1.	0.	0.	0.

K STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
11.78	12.67	10.44	10.12	10.12	10.12

CUMULATIVE AREA = .55 SQ MI

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HYDROGRAPH AT STATION B1-1B
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
405.	12.67	(CFS)	70.	19.	18.	18.
		(INCHES)	1.179	1.261	1.261	1.261
		(AC-FT)	35.	37.	37.	37.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
2.	12.67	1.	0.	0.	0.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
11.75	12.67	10.44	10.12	10.12	10.12

CUMULATIVE AREA = .55 SQ MI

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

HYDROGRAPH AT STATION B1-1B
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
384.	12.67	(CFS)	66.	18.	17.	17.
		(INCHES)	1.120	1.199	1.199	1.199
		(AC-FT)	33.	35.	35.	35.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
2.	12.67	1.	0.	0.	0.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
11.69	12.67	10.42	10.12	10.11	10.11

CUMULATIVE AREA = .55 SQ MI

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

HYDROGRAPH AT STATION B1-1B
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
335.	12.67	(CFS)	58.	16.	15.	15.
		(INCHES)	.986	1.060	1.060	1.060
		(AC-FT)	29.	31.	31.	31.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
2.	12.67	0.	0.	0.	0.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
11.57	12.67	10.39	10.11	10.10	10.10

CUMULATIVE AREA = .55 SQ MI

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HYDROGRAPH AT STATION B1-1B
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
313.	12.67	(CFS)	55.	15.	14.	14.
		(INCHES)	.925	.997	.997	.997
		(AC-FT)	27.	29.	29.	29.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
2.	12.67	0.	0.	0.	0.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
11.51	12.67	10.38	10.10	10.10	10.10

CUMULATIVE AREA = .55 SQ MI

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HYDROGRAPH AT STATION B1-1B
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
260.	12.67	(CFS)	47.	13.	12.	12.
		(INCHES)	.788	.854	.854	.854
		(AC-FT)	23.	25.	25.	25.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
2.	12.67	0.	0.	0.	0.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
11.38	12.67	10.34	10.10	10.09	10.09

CUMULATIVE AREA = .55 SQ MI

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INTERPOLATED HYDROGRAPH AT B1-1B

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	2.	1		1230	151	358.	1		1845	226	2.

1	0005	2	0.	*	1	0620	77	2.	*	1	1235	152	402.	*	1	1850	227	2.
1	0010	3	0.	*	1	0625	78	2.	*	1	1240	153	410.	*	1	1855	228	2.
1	0015	4	0.	*	1	0630	79	2.	*	1	1245	154	390.	*	1	1900	229	2.
1	0020	5	0.	*	1	0635	80	2.	*	1	1250	155	352.	*	1	1905	230	2.
1	0025	6	0.	*	1	0640	81	2.	*	1	1255	156	307.	*	1	1910	231	2.
1	0030	7	0.	*	1	0645	82	2.	*	1	1300	157	264.	*	1	1915	232	2.
1	0035	8	0.	*	1	0650	83	2.	*	1	1305	158	229.	*	1	1920	233	2.
1	0040	9	0.	*	1	0655	84	2.	*	1	1310	159	204.	*	1	1925	234	2.
1	0045	10	0.	*	1	0700	85	2.	*	1	1315	160	183.	*	1	1930	235	2.
1	0050	11	0.	*	1	0705	86	2.	*	1	1320	161	160.	*	1	1935	236	2.
1	0055	12	0.	*	1	0710	87	2.	*	1	1325	162	138.	*	1	1940	237	2.
1	0100	13	0.	*	1	0715	88	2.	*	1	1330	163	118.	*	1	1945	238	2.
1	0105	14	0.	*	1	0720	89	2.	*	1	1335	164	100.	*	1	1950	239	2.
1	0110	15	0.	*	1	0725	90	2.	*	1	1340	165	85.	*	1	1955	240	2.
1	0115	16	0.	*	1	0730	91	2.	*	1	1345	166	74.	*	1	2000	241	2.
1	0120	17	0.	*	1	0735	92	2.	*	1	1350	167	66.	*	1	2005	242	2.
1	0125	18	0.	*	1	0740	93	2.	*	1	1355	168	61.	*	1	2010	243	2.
1	0130	19	1.	*	1	0745	94	2.	*	1	1400	169	59.	*	1	2015	244	2.
1	0135	20	1.	*	1	0750	95	2.	*	1	1405	170	56.	*	1	2020	245	2.
1	0140	21	1.	*	1	0755	96	2.	*	1	1410	171	52.	*	1	2025	246	2.
1	0145	22	1.	*	1	0800	97	2.	*	1	1415	172	49.	*	1	2030	247	2.
1	0150	23	1.	*	1	0805	98	2.	*	1	1420	173	44.	*	1	2035	248	2.
1	0155	24	1.	*	1	0810	99	2.	*	1	1425	174	40.	*	1	2040	249	2.
1	0200	25	1.	*	1	0815	100	2.	*	1	1430	175	36.	*	1	2045	250	2.
1	0205	26	1.	*	1	0820	101	2.	*	1	1435	176	33.	*	1	2050	251	2.
1	0210	27	1.	*	1	0825	102	2.	*	1	1440	177	29.	*	1	2055	252	2.
1	0215	28	1.	*	1	0830	103	2.	*	1	1445	178	26.	*	1	2100	253	2.
1	0220	29	1.	*	1	0835	104	2.	*	1	1450	179	23.	*	1	2105	254	2.
1	0225	30	1.	*	1	0840	105	2.	*	1	1455	180	20.	*	1	2110	255	2.
1	0230	31	1.	*	1	0845	106	2.	*	1	1500	181	17.	*	1	2115	256	1.
1	0235	32	1.	*	1	0850	107	2.	*	1	1505	182	15.	*	1	2120	257	1.
1	0240	33	1.	*	1	0855	108	2.	*	1	1510	183	13.	*	1	2125	258	1.
1	0245	34	1.	*	1	0900	109	2.	*	1	1515	184	11.	*	1	2130	259	1.
1	0250	35	1.	*	1	0905	110	2.	*	1	1520	185	10.	*	1	2135	260	1.
1	0255	36	1.	*	1	0910	111	2.	*	1	1525	186	8.	*	1	2140	261	1.
1	0300	37	1.	*	1	0915	112	2.	*	1	1530	187	7.	*	1	2145	262	1.
1	0305	38	1.	*	1	0920	113	2.	*	1	1535	188	6.	*	1	2150	263	1.
1	0310	39	1.	*	1	0925	114	2.	*	1	1540	189	6.	*	1	2155	264	1.
1	0315	40	1.	*	1	0930	115	2.	*	1	1545	190	5.	*	1	2200	265	1.
1	0320	41	1.	*	1	0935	116	2.	*	1	1550	191	5.	*	1	2205	266	1.
1	0325	42	1.	*	1	0940	117	3.	*	1	1555	192	4.	*	1	2210	267	1.
1	0330	43	1.	*	1	0945	118	3.	*	1	1600	193	4.	*	1	2215	268	1.
1	0335	44	1.	*	1	0950	119	3.	*	1	1605	194	4.	*	1	2220	269	1.
1	0340	45	1.	*	1	0955	120	3.	*	1	1610	195	4.	*	1	2225	270	1.
1	0345	46	1.	*	1	1000	121	3.	*	1	1615	196	4.	*	1	2230	271	1.
1	0350	47	1.	*	1	1005	122	3.	*	1	1620	197	3.	*	1	2235	272	1.
1	0355	48	1.	*	1	1010	123	3.	*	1	1625	198	3.	*	1	2240	273	1.
1	0400	49	1.	*	1	1015	124	3.	*	1	1630	199	3.	*	1	2245	274	1.
1	0405	50	1.	*	1	1020	125	3.	*	1	1635	200	3.	*	1	2250	275	1.
1	0410	51	1.	*	1	1025	126	3.	*	1	1640	201	3.	*	1	2255	276	1.
1	0415	52	1.	*	1	1030	127	3.	*	1	1645	202	3.	*	1	2300	277	1.
1	0420	53	1.	*	1	1035	128	3.	*	1	1650	203	3.	*	1	2305	278	1.
1	0425	54	1.	*	1	1040	129	3.	*	1	1655	204	3.	*	1	2310	279	1.
1	0430	55	1.	*	1	1045	130	3.	*	1	1700	205	3.	*	1	2315	280	1.
1	0435	56	1.	*	1	1050	131	3.	*	1	1705	206	3.	*	1	2320	281	1.
1	0440	57	1.	*	1	1055	132	3.	*	1	1710	207	3.	*	1	2325	282	1.
1	0445	58	1.	*	1	1100	133	3.	*	1	1715	208	3.	*	1	2330	283	1.
1	0450	59	1.	*	1	1105	134	4.	*	1	1720	209	3.	*	1	2335	284	1.
1	0455	60	1.	*	1	1110	135	4.	*	1	1725	210	3.	*	1	2340	285	1.
1	0500	61	1.	*	1	1115	136	4.	*	1	1730	211	2.	*	1	2345	286	1.

1	0505	62	1.	*	1	1120	137	4.	*	1	1735	212	2.	*	1	2350	287	1.		
1	0510	63	1.	*	1	1125	138	4.	*	1	1740	213	2.	*	1	2355	288	1.		
1	0515	64	1.	*	1	1130	139	4.	*	1	1745	214	2.	*	2	0000	289	1.		
1	0520	65	1.	*	1	1135	140	4.	*	1	1750	215	2.	*	2	0005	290	1.		
1	0525	66	1.	*	1	1140	141	5.	*	1	1755	216	2.	*	2	0010	291	1.		
1	0530	67	1.	*	1	1145	142	5.	*	1	1800	217	2.	*	2	0015	292	1.		
1	0535	68	1.	*	1	1150	143	5.	*	1	1805	218	2.	*	2	0020	293	1.		
1	0540	69	1.	*	1	1155	144	6.	*	1	1810	219	2.	*	2	0025	294	1.		
1	0545	70	1.	*	1	1200	145	8.	*	1	1815	220	2.	*	2	0030	295	1.		
1	0550	71	1.	*	1	1205	146	12.	*	1	1820	221	2.	*	2	0035	296	1.		
1	0555	72	2.	*	1	1210	147	23.	*	1	1825	222	2.	*	2	0040	297	1.		
1	0600	73	2.	*	1	1215	148	55.	*	1	1830	223	2.	*	2	0045	298	1.		
1	0605	74	2.	*	1	1220	149	148.	*	1	1835	224	2.	*	2	0050	299	1.		
1	0610	75	2.	*	1	1225	150	263.	*	1	1840	225	2.	*	2	0055	300	1.		
				*					*					*						

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PEAK FLOW (CFS)	TIME (HR)		6-HR	MAXIMUM AVERAGE FLOW 24-HR	72-HR	24.92-HR
410.	12.67	(CFS)	71.	19.	18.	18.
		(INCHES)	1.192	1.275	1.275	1.275
		(AC-FT)	35.	37.	37.	37.

CUMULATIVE AREA = .55 SQ MI

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          **************
          *            *
 97 KK    *        B2  *
          *            *
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BASIN B2
THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
L= 2.0 Lca= .9 S= 91.0 Kn= .060 LAG= 45.0
PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN

102 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

SUBBASIN RUNOFF DATA

BA SUBBASIN CHARACTERISTICS

TAREA	.49	SUBBASIN AREA

104 LG GREEN AND AMPT LOSS RATE

STRTL	.18	STARTING LOSS
DTH	.35	MOISTURE DEFICIT

PSIF 4.11 WETTING FRONT SUCTION
XKSAT .48 HYDRAULIC CONDUCTIVITY
RTIMP .00 PERCENT IMPERVIOUS AREA

UI INPUT UNITGRAPH, 26 ORDINATES, VOLUME = .99

36.0	36.0	119.0	164.0	198.0	231.0	275.0	363.0	455.0	379.0
313.0	267.0	222.0	184.0	146.0	89.0	63.0	60.0	38.0	36.0
14.0	11.0	11.0	11.0	11.0	11.0				

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HYDROGRAPH AT STATION B2
TRANSPOSITION AREA .0 SQ MI

TOTAL RAINFALL = 4.20, TOTAL LOSS = 3.12, TOTAL EXCESS = 1.08

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
371.	12.50	(CFS)	56.	14.	14.	14.
		(INCHES)	1.067	1.067	1.067	1.067
		(AC-FT)	28.	28.	28.	28.

CUMULATIVE AREA = .49 SQ MI

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

HYDROGRAPH AT STATION B2
TRANSPOSITION AREA 5.0 SQ MI

TOTAL RAINFALL = 4.12, TOTAL LOSS = 3.07, TOTAL EXCESS = 1.05

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
359.	12.50	(CFS)	54.	14.	13.	13.
		(INCHES)	1.032	1.032	1.032	1.032
		(AC-FT)	27.	27.	27.	27.

CUMULATIVE AREA = .49 SQ MI

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

HYDROGRAPH AT STATION B2
TRANSPOSITION AREA 10.0 SQ MI

TOTAL RAINFALL = 3.99, TOTAL LOSS = 3.00, TOTAL EXCESS = .99

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
339.	12.50	(CFS)	51.	13.	12.	12.
		(INCHES)	.976	.976	.976	.976
		(AC-FT)	26.	26.	26.	26.

CUMULATIVE AREA = .49 SQ MI

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

HYDROGRAPH AT STATION B2
TRANSPOSITION AREA 50.0 SQ MI

TOTAL RAINFALL = 3.70, TOTAL LOSS = 2.84, TOTAL EXCESS = .86

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
295.	12.50	(CFS)	45.	11.	11.	11.
		(INCHES)	.849	.849	.849	.849
		(AC-FT)	22.	22.	22.	22.

CUMULATIVE AREA = .49 SQ MI

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

HYDROGRAPH AT STATION B2
TRANSPOSITION AREA 100.0 SQ MI

TOTAL RAINFALL = 3.57, TOTAL LOSS = 2.77, TOTAL EXCESS = .80

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
275.	12.50	(CFS)	42.	10.	10.	10.
		(INCHES)	.791	.791	.791	.791
		(AC-FT)	21.	21.	21.	21.

CUMULATIVE AREA = .49 SQ MI

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HYDROGRAPH AT STATION B2
TRANSPOSITION AREA 500.0 SQ MI

TOTAL RAINFALL = 3.28, TOTAL LOSS = 2.61, TOTAL EXCESS = .67

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
230.	12.50	(CFS)	35.	9.	8.	8.
		(INCHES)	.661	.661	.661	.661
		(AC-FT)	17.	17.	17.	17.

CUMULATIVE AREA = .49 SQ MI

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INTERPOLATED HYDROGRAPH AT B2

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	0.	*	1		1230	151	363.	*	1		1845	226	0.
1		0005	2	0.	*	1		0620	77	0.	*	1		1235	152	355.	*	1		1850	227	0.
1		0010	3	0.	*	1		0625	78	0.	*	1		1240	153	324.	*	1		1855	228	0.
1		0015	4	0.	*	1		0630	79	0.	*	1		1245	154	269.	*	1		1900	229	0.
1		0020	5	0.	*	1		0635	80	0.	*	1		1250	155	218.	*	1		1905	230	0.

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

1	0525	66	0.	*	1	1140	141	12.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	0.	*	1	1145	142	32.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	0.	*	1	1150	143	61.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	0.	*	1	1155	144	95.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	0.	*	1	1200	145	136.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	0.	*	1	1205	146	178.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	0.	*	1	1210	147	236.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	0.	*	1	1215	148	294.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	0.	*	1	1220	149	333.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	0.	*	1	1225	150	355.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
363.	12.50	(CFS)	55.	14.	13.	13.
		(INCHES)	1.045	1.045	1.045	1.045
		(AC-FT)	27.	27.	27.	27.

CUMULATIVE AREA = .49 SQ MI

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* *
KK * 1B *
* *
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Combining B1 & B2

111 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

112 HC HYDROGRAPH COMBINATION

ICOMP	2	NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 1B
TRANSPOSITION AREA .0 SQ MI

KK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
773.	12.58	(CFS)	128.	33.	32.	32.
		(INCHES)	1.145	1.190	1.190	1.190
		(AC-FT)	64.	66.	66.	66.

CUMULATIVE AREA = 1.04 SQ MI

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HYDROGRAPH AT STATION 1B
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
748.	12.58	(CFS)	124.	32.	31.	31.
		(INCHES)	1.110	1.153	1.153	1.153
		(AC-FT)	62.	64.	64.	64.

CUMULATIVE AREA = 1.04 SQ MI

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HYDROGRAPH AT STATION 1B
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
707.	12.58	(CFS)	118.	31.	29.	29.
		(INCHES)	1.052	1.094	1.094	1.094
		(AC-FT)	58.	61.	61.	61.

CUMULATIVE AREA = 1.04 SQ MI

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HYDROGRAPH AT STATION 1B
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
613.	12.58	(CFS)	103.	27.	26.	26.
		(INCHES)	.921	.960	.960	.960
		(AC-FT)	51.	53.	53.	53.

CUMULATIVE AREA = 1.04 SQ MI

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HYDROGRAPH AT STATION 1B
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
569.	12.58	(CFS)	96.	25.	24.	24.
		(INCHES)	.862	.900	.900	.900
		(AC-FT)	48.	50.	50.	50.

CUMULATIVE AREA = 1.04 SQ MI

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

HYDROGRAPH AT STATION 1B
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
468.	12.67	(CFS)	81.	21.	21.	21.
		(INCHES)	.728	.763	.763	.763
		(AC-FT)	40.	42.	42.	42.

CUMULATIVE AREA = 1.04 SQ MI

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INTERPOLATED HYDROGRAPH AT 1B

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	2.	1		1230	151	718.	1		1845	226	2.
1		0005	2	0.	1		0620	77	2.	1		1235	152	754.	1		1850	227	2.
1		0010	3	0.	1		0625	78	2.	1		1240	153	731.	1		1855	228	2.
1		0015	4	0.	1		0630	79	2.	1		1245	154	657.	1		1900	229	2.
1		0020	5	0.	1		0635	80	2.	1		1250	155	568.	1		1905	230	2.
1		0025	6	0.	1		0640	81	2.	1		1255	156	479.	1		1910	231	2.
1		0030	7	0.	1		0645	82	2.	1		1300	157	399.	1		1915	232	2.
1		0035	8	0.	1		0650	83	2.	1		1305	158	332.	1		1920	233	2.
1		0040	9	0.	1		0655	84	2.	1		1310	159	280.	1		1925	234	2.
1		0045	10	0.	1		0700	85	2.	1		1315	160	236.	1		1930	235	2.
1		0050	11	0.	1		0705	86	2.	1		1320	161	199.	1		1935	236	2.
1		0055	12	0.	1		0710	87	2.	1		1325	162	168.	1		1940	237	2.
1		0100	13	0.	1		0715	88	2.	1		1330	163	139.	1		1945	238	2.
1		0105	14	0.	1		0720	89	2.	1		1335	164	116.	1		1950	239	2.
1		0110	15	0.	1		0725	90	2.	1		1340	165	97.	1		1955	240	2.
1		0115	16	0.	1		0730	91	2.	1		1345	166	84.	1		2000	241	2.
1		0120	17	0.	1		0735	92	2.	1		1350	167	74.	1		2005	242	2.
1		0125	18	0.	1		0740	93	2.	1		1355	168	67.	1		2010	243	2.
1		0130	19	1.	1		0745	94	2.	1		1400	169	63.	1		2015	244	2.
1		0135	20	1.	1		0750	95	2.	1		1405	170	58.	1		2020	245	2.
1		0140	21	1.	1		0755	96	2.	1		1410	171	52.	1		2025	246	2.
1		0145	22	1.	1		0800	97	2.	1		1415	172	48.	1		2030	247	2.
1		0150	23	1.	1		0805	98	2.	1		1420	173	44.	1		2035	248	2.
1		0155	24	1.	1		0810	99	2.	1		1425	174	40.	1		2040	249	2.
1		0200	25	1.	1		0815	100	2.	1		1430	175	36.	1		2045	250	2.
1		0205	26	1.	1		0820	101	2.	1		1435	176	32.	1		2050	251	2.
1		0210	27	1.	1		0825	102	2.	1		1440	177	29.	1		2055	252	2.
1		0215	28	1.	1		0830	103	2.	1		1445	178	26.	1		2100	253	2.
1		0220	29	1.	1		0835	104	2.	1		1450	179	23.	1		2105	254	2.
1		0225	30	1.	1		0840	105	2.	1		1455	180	20.	1		2110	255	2.
1		0230	31	1.	1		0845	106	2.	1		1500	181	17.	1		2115	256	1.
1		0235	32	1.	1		0850	107	2.	1		1505	182	15.	1		2120	257	1.
1		0240	33	1.	1		0855	108	2.	1		1510	183	13.	1		2125	258	1.
1		0245	34	1.	1		0900	109	2.	1		1515	184	11.	1		2130	259	1.
1		0250	35	1.	1		0905	110	2.	1		1520	185	10.	1		2135	260	1.
1		0255	36	1.	1		0910	111	2.	1		1525	186	8.	1		2140	261	1.
1		0300	37	1.	1		0915	112	2.	1		1530	187	7.	1		2145	262	1.
1		0305	38	1.	1		0920	113	2.	1		1535	188	6.	1		2150	263	1.

1	0310	39	1.	*	1	0925	114	2.	*	1	1540	189	6.	*	1	2155	264	1.
1	0315	40	1.	*	1	0930	115	2.	*	1	1545	190	5.	*	1	2200	265	1.
1	0320	41	1.	*	1	0935	116	2.	*	1	1550	191	5.	*	1	2205	266	1.
1	0325	42	1.	*	1	0940	117	3.	*	1	1555	192	4.	*	1	2210	267	1.
1	0330	43	1.	*	1	0945	118	3.	*	1	1600	193	4.	*	1	2215	268	1.
1	0335	44	1.	*	1	0950	119	3.	*	1	1605	194	4.	*	1	2220	269	1.
1	0340	45	1.	*	1	0955	120	3.	*	1	1610	195	4.	*	1	2225	270	1.
1	0345	46	1.	*	1	1000	121	3.	*	1	1615	196	4.	*	1	2230	271	1.
1	0350	47	1.	*	1	1005	122	3.	*	1	1620	197	3.	*	1	2235	272	1.
1	0355	48	1.	*	1	1010	123	3.	*	1	1625	198	3.	*	1	2240	273	1.
1	0400	49	1.	*	1	1015	124	3.	*	1	1630	199	3.	*	1	2245	274	1.
1	0405	50	1.	*	1	1020	125	3.	*	1	1635	200	3.	*	1	2250	275	1.
1	0410	51	1.	*	1	1025	126	3.	*	1	1640	201	3.	*	1	2255	276	1.
1	0415	52	1.	*	1	1030	127	3.	*	1	1645	202	3.	*	1	2300	277	1.
1	0420	53	1.	*	1	1035	128	3.	*	1	1650	203	3.	*	1	2305	278	1.
1	0425	54	1.	*	1	1040	129	3.	*	1	1655	204	3.	*	1	2310	279	1.
1	0430	55	1.	*	1	1045	130	3.	*	1	1700	205	3.	*	1	2315	280	1.
1	0435	56	1.	*	1	1050	131	3.	*	1	1705	206	3.	*	1	2320	281	1.
1	0440	57	1.	*	1	1055	132	3.	*	1	1710	207	3.	*	1	2325	282	1.
1	0445	58	1.	*	1	1100	133	3.	*	1	1715	208	3.	*	1	2330	283	1.
1	0450	59	1.	*	1	1105	134	4.	*	1	1720	209	3.	*	1	2335	284	1.
1	0455	60	1.	*	1	1110	135	4.	*	1	1725	210	3.	*	1	2340	285	1.
1	0500	61	1.	*	1	1115	136	4.	*	1	1730	211	2.	*	1	2345	286	1.
1	0505	62	1.	*	1	1120	137	4.	*	1	1735	212	2.	*	1	2350	287	1.
1	0510	63	1.	*	1	1125	138	4.	*	1	1740	213	2.	*	1	2355	288	1.
1	0515	64	1.	*	1	1130	139	4.	*	1	1745	214	2.	*	2	0000	289	1.
1	0520	65	1.	*	1	1135	140	10.	*	1	1750	215	2.	*	2	0005	290	1.
1	0525	66	1.	*	1	1140	141	17.	*	1	1755	216	2.	*	2	0010	291	1.
1	0530	67	1.	*	1	1145	142	37.	*	1	1800	217	2.	*	2	0015	292	1.
1	0535	68	1.	*	1	1150	143	66.	*	1	1805	218	2.	*	2	0020	293	1.
1	0540	69	1.	*	1	1155	144	101.	*	1	1810	219	2.	*	2	0025	294	1.
1	0545	70	1.	*	1	1200	145	143.	*	1	1815	220	2.	*	2	0030	295	1.
1	0550	71	1.	*	1	1205	146	189.	*	1	1820	221	2.	*	2	0035	296	1.
1	0555	72	1.	*	1	1210	147	258.	*	1	1825	222	2.	*	2	0040	297	1.
1	0600	73	2.	*	1	1215	148	348.	*	1	1830	223	2.	*	2	0045	298	1.
1	0605	74	2.	*	1	1220	149	478.	*	1	1835	224	2.	*	2	0050	299	1.
1	0610	75	2.	*	1	1225	150	615.	*	1	1840	225	2.	*	2	0055	300	1.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
754.	12.58	(CFS)	125.	33.	31.	31.
		(INCHES)	1.119	1.163	1.163	1.163
		(AC-FT)	62.	64.	64.	64.

CUMULATIVE AREA = 1.04 SQ MI

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          *            *
113 KK    *    1B-2B   *      Routing thru B3
          *            *
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114 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

HYDROGRAPH ROUTING DATA

115 RS STORAGE ROUTING

NSTPS	15	NUMBER OF SUBREACHES
ITYP	FLOW	TYPE OF INITIAL CONDITION
RSVRIC	.00	INITIAL CONDITION
X	.00	WORKING R AND D COEFFICIENT

116 RC NORMAL DEPTH CHANNEL

ANL	.050	LEFT OVERBANK N-VALUE
ANCH	.055	MAIN CHANNEL N-VALUE
ANR	.048	RIGHT OVERBANK N-VALUE
RLNTH	17140.	REACH LENGTH
SEL	.0134	ENERGY SLOPE
ELMAX	.0	MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

CROSS-SECTION DATA

		--- LEFT OVERBANK ---		+ ------ MAIN CHANNEL -------			+ --- RIGHT OVERBANK ---		
RY	ELEVATION	27.00	25.00	22.00	10.00	10.00	17.00	21.00	25.00
117 RX	DISTANCE	.00	40.00	100.00	130.00	220.00	340.00	390.00	440.00

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COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	34.78	75.75	122.90	176.24	235.77	301.49	373.39	451.46	534.75
OUTFLOW	.00	243.04	803.30	1647.64	2779.35	4209.96	5954.08	8027.62	10525.96	13762.53
ELEVATION	10.00	10.89	11.79	12.68	13.58	14.47	15.37	16.26	17.16	18.05
STORAGE	622.77	715.51	812.97	915.17	1023.03	1140.67	1268.55	1406.56	1552.01	1703.77
OUTFLOW	17392.04	21428.18	25882.70	30766.77	36222.12	42276.27	48900.93	56205.46	64365.03	73186.95
ELEVATION	18.95	19.84	20.74	21.63	22.53	23.42	24.32	25.21	26.11	27.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 1648. TO 73187.
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 1B-2B
TRANSPOSITION AREA .0 SQ MI

AK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
587.	13.58	(CFS)	128.	33.	32.	32.
		(INCHES)	1.145	1.187	1.187	1.187
		(AC-FT)	64.	66.	66.	66.

PEAK STORAGE (AC-FT)	TIME (HR)		MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
4.	13.58		1.	0.	0.	0.

PEAK STAGE (FEET)	TIME (HR)		MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
11.44	13.58		10.41	10.11	10.10	10.10

CUMULATIVE AREA = 1.04 SQ MI

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HYDROGRAPH AT STATION 1B-2B
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
564.	13.58	(CFS)	124.	32.	31.	31.
		(INCHES)	1.109	1.150	1.150	1.150
		(AC-FT)	62.	64.	64.	64.

PEAK STORAGE (AC-FT)	TIME (HR)		MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
4.	13.58		1.	0.	0.	0.

PEAK STAGE (FEET)	TIME (HR)		MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
11.41	13.58		10.40	10.10	10.10	10.10

CUMULATIVE AREA = 1.04 SQ MI

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HYDROGRAPH AT STATION 1B-2B
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
524.	13.58	(CFS)	118.	31.	29.	29.
		(INCHES)	1.052	1.091	1.091	1.091
		(AC-FT)	58.	61.	61.	61.

PEAK STORAGE (AC-FT)	TIME (HR)		MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
4.	13.58		1.	0.	0.	0.

PEAK STAGE (FEET)	TIME (HR)		MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
11.34	13.58		10.38	10.10	10.10	10.10

CUMULATIVE AREA = 1.04 SQ MI

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HYDROGRAPH AT STATION 1B-2B
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
434.	13.67	(CFS)	103.	27.	26.	26.
		(INCHES)	.921	.958	.958	.958
		(AC-FT)	51.	53.	53.	53.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
3.	13.67	1.	0.	0.	0.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
11.20	13.67	10.35	10.09	10.09	10.09

CUMULATIVE AREA = 1.04 SQ MI

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HYDROGRAPH AT STATION 1B-2B
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
393.	13.67	(CFS)	96.	25.	24.	24.
		(INCHES)	.862	.897	.897	.897
		(AC-FT)	48.	50.	50.	50.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
3.	13.67	1.	0.	0.	0.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
11.13	13.67	10.33	10.09	10.08	10.08

CUMULATIVE AREA = 1.04 SQ MI

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HYDROGRAPH AT STATION 1B-2B
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
293.	13.83	(CFS)	81.	21.	20.	20.
		(INCHES)	.728	.760	.760	.760
		(AC-FT)	40.	42.	42.	42.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
3.	13.83	1.	0.	0.	0.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
10.97	13.83	10.30	10.08	10.07	10.07

CUMULATIVE AREA = 1.04 SQ MI

INTERPOLATED HYDROGRAPH AT 1B-2B

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	1.	1		1230	151	4.	1		1845	226	3.
1		0005	2	0.	1		0620	77	1.	1		1235	152	4.	1		1850	227	3.
1		0010	3	0.	1		0625	78	1.	1		1240	153	6.	1		1855	228	3.
1		0015	4	0.	1		0630	79	1.	1		1245	154	7.	1		1900	229	3.
1		0020	5	0.	1		0635	80	1.	1		1250	155	11.	1		1905	230	3.
1		0025	6	0.	1		0640	81	1.	1		1255	156	16.	1		1910	231	3.
1		0030	7	0.	1		0645	82	1.	1		1300	157	24.	1		1915	232	3.
1		0035	8	0.	1		0650	83	1.	1		1305	158	40.	1		1920	233	2.
1		0040	9	0.	1		0655	84	1.	1		1310	159	71.	1		1925	234	2.
1		0045	10	0.	1		0700	85	1.	1		1315	160	130.	1		1930	235	2.
1		0050	11	0.	1		0705	86	1.	1		1320	161	246.	1		1935	236	2.
1		0055	12	0.	1		0710	87	1.	1		1325	162	453.	1		1940	237	2.
1		0100	13	0.	1		0715	88	1.	1		1330	163	548.	1		1945	238	2.
1		0105	14	0.	1		0720	89	1.	1		1335	164	570.	1		1950	239	2.
1		0110	15	0.	1		0725	90	1.	1		1340	165	551.	1		1955	240	2.
1		0115	16	0.	1		0730	91	1.	1		1345	166	508.	1		2000	241	2.
1		0120	17	0.	1		0735	92	1.	1		1350	167	456.	1		2005	242	2.
1		0125	18	0.	1		0740	93	2.	1		1355	168	402.	1		2010	243	2.
1		0130	19	0.	1		0745	94	2.	1		1400	169	353.	1		2015	244	2.
1		0135	20	0.	1		0750	95	2.	1		1405	170	312.	1		2020	245	2.
1		0140	21	0.	1		0755	96	2.	1		1410	171	282.	1		2025	246	2.
1		0145	22	0.	1		0800	97	2.	1		1415	172	261.	1		2030	247	2.
1		0150	23	0.	1		0805	98	2.	1		1420	173	249.	1		2035	248	2.
1		0155	24	0.	1		0810	99	2.	1		1425	174	242.	1		2040	249	2.
1		0200	25	0.	1		0815	100	2.	1		1430	175	239.	1		2045	250	2.
1		0205	26	0.	1		0820	101	2.	1		1435	176	234.	1		2050	251	2.
1		0210	27	0.	1		0825	102	2.	1		1440	177	228.	1		2055	252	2.
1		0215	28	0.	1		0830	103	2.	1		1445	178	219.	1		2100	253	2.
1		0220	29	0.	1		0835	104	2.	1		1450	179	209.	1		2105	254	2.
1		0225	30	0.	1		0840	105	2.	1		1455	180	198.	1		2110	255	2.
1		0230	31	0.	1		0845	106	2.	1		1500	181	186.	1		2115	256	2.
1		0235	32	0.	1		0850	107	2.	1		1505	182	172.	1		2120	257	2.
1		0240	33	0.	1		0855	108	2.	1		1510	183	159.	1		2125	258	2.
1		0245	34	0.	1		0900	109	2.	1		1515	184	146.	1		2130	259	2.
1		0250	35	0.	1		0905	110	2.	1		1520	185	133.	1		2135	260	2.
1		0255	36	0.	1		0910	111	2.	1		1525	186	120.	1		2140	261	2.
1		0300	37	0.	1		0915	112	2.	1		1530	187	108.	1		2145	262	2.
1		0305	38	0.	1		0920	113	2.	1		1535	188	97.	1		2150	263	2.
1		0310	39	0.	1		0925	114	2.	1		1540	189	88.	1		2155	264	2.
1		0315	40	1.	1		0930	115	2.	1		1545	190	79.	1		2200	265	2.
1		0320	41	1.	1		0935	116	2.	1		1550	191	70.	1		2205	266	2.
1		0325	42	1.	1		0940	117	2.	1		1555	192	63.	1		2210	267	2.
1		0330	43	1.	1		0945	118	2.	1		1600	193	57.	1		2215	268	2.
1		0335	44	1.	1		0950	119	2.	1		1605	194	51.	1		2220	269	2.
1		0340	45	1.	1		0955	120	2.	1		1610	195	46.	1		2225	270	2.
1		0345	46	1.	1		1000	121	2.	1		1615	196	41.	1		2230	271	2.
1		0350	47	1.	1		1005	122	2.	1		1620	197	37.	1		2235	272	2.
1		0355	48	1.	1		1010	123	2.	1		1625	198	33.	1		2240	273	2.
1		0400	49	1.	1		1015	124	2.	1		1630	199	29.	1		2245	274	2.
1		0405	50	1.	1		1020	125	2.	1		1635	200	26.	1		2250	275	2.
1		0410	51	1.	1		1025	126	2.	1		1640	201	23.	1		2255	276	2.

1	0415	52	1.	*	1	1030	127	2.	*	1	1645	202	20.	*	1	2300	277	1.	
1	0420	53	1.	*	1	1035	128	2.	*	1	1650	203	18.	*	1	2305	278	1.	
1	0425	54	1.	*	1	1040	129	2.	*	1	1655	204	16.	*	1	2310	279	1.	
1	0430	55	1.	*	1	1045	130	2.	*	1	1700	205	14.	*	1	2315	280	1.	
1	0435	56	1.	*	1	1050	131	2.	*	1	1705	206	13.	*	1	2320	281	1.	
1	0440	57	1.	*	1	1055	132	2.	*	1	1710	207	11.	*	1	2325	282	1.	
1	0445	58	1.	*	1	1100	133	2.	*	1	1715	208	10.	*	1	2330	283	1.	
1	0450	59	1.	*	1	1105	134	2.	*	1	1720	209	9.	*	1	2335	284	1.	
1	0455	60	1.	*	1	1110	135	2.	*	1	1725	210	8.	*	1	2340	285	1.	
1	0500	61	1.	*	1	1115	136	2.	*	1	1730	211	7.	*	1	2345	286	1.	
1	0505	62	1.	*	1	1120	137	2.	*	1	1735	212	6.	*	1	2350	287	1.	
1	0510	63	1.	*	1	1125	138	3.	*	1	1740	213	6.	*	1	2355	288	1.	
1	0515	64	1.	*	1	1130	139	3.	*	1	1745	214	5.	*	2	0000	289	1.	
1	0520	65	1.	*	1	1135	140	3.	*	1	1750	215	5.	*	2	0005	290	1.	
1	0525	66	1.	*	1	1140	141	3.	*	1	1755	216	4.	*	2	0010	291	1.	
1	0530	67	1.	*	1	1145	142	3.	*	1	1800	217	4.	*	2	0015	292	1.	
1	0535	68	1.	*	1	1150	143	3.	*	1	1805	218	4.	*	2	0020	293	1.	
1	0540	69	1.	*	1	1155	144	3.	*	1	1810	219	4.	*	2	0025	294	1.	
1	0545	70	1.	*	1	1200	145	3.	*	1	1815	220	4.	*	2	0030	295	1.	
1	0550	71	1.	*	1	1205	146	3.	*	1	1820	221	3.	*	2	0035	296	1.	
1	0555	72	1.	*	1	1210	147	3.	*	1	1825	222	3.	*	2	0040	297	1.	
1	0600	73	1.	*	1	1215	148	3.	*	1	1830	223	3.	*	2	0045	298	1.	
1	0605	74	1.	*	1	1220	149	3.	*	1	1835	224	3.	*	2	0050	299	1.	
1	0610	75	1.	*	1	1225	150	3.	*	1	1840	225	3.	*	2	0055	300	1.	
				*					*					*					

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
570.	13.58	(CFS)	125.	32.	31.	31.
		(INCHES)	1.118	1.160	1.160	1.160
		(AC-FT)	62.	64.	64.	64.

CUMULATIVE AREA = 1.04 SQ MI

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119 KK

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*            *
*        B3  *
*            *
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BASIN B3
THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
L= 3.3 Lca= 1.4 S= 71.0 Kn= .045 LAG= 52.0
PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN

124 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

SUBBASIN RUNOFF DATA

BA SUBBASIN CHARACTERISTICS
TAREA 1.97 SUBBASIN AREA

126 LG GREEN AND AMPT LOSS RATE
STRTL .17 STARTING LOSS
DTH .35 MOISTURE DEFICIT
PSIF 3.98 WETTING FRONT SUCTION
XKSAT .37 HYDRAULIC CONDUCTIVITY
RTIMP .00 PERCENT IMPERVIOUS AREA

125 UI INPUT UNITGRAPH, 31 ORDINATES, VOLUME = 1.00

128.0	128.0	305.0	506.0	630.0	724.0	830.0	966.0	1191.0	1593.0
1480.0	1212.0	1052.0	910.0	776.0	659.0	551.0	395.0	234.0	216.0
199.0	128.0	128.0	62.0	39.0	39.0	39.0	39.0	39.0	39.0
39.0									

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HYDROGRAPH AT STATION B3
TRANSPOSITION AREA .0 SQ MI

TOTAL RAINFALL = 4.20, TOTAL LOSS = 3.00, TOTAL EXCESS = 1.20

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1497.	12.58	(CFS)	254.	64.	61.	61.
		(INCHES)	1.200	1.200	1.200	1.200
		(AC-FT)	126.	126.	126.	126.

CUMULATIVE AREA = 1.97 SQ MI

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

HYDROGRAPH AT STATION B3
TRANSPOSITION AREA 5.0 SQ MI

TOTAL RAINFALL = 4.12, TOTAL LOSS = 2.96, TOTAL EXCESS = 1.16

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1454.	12.58	(CFS)	247.	62.	59.	59.
		(INCHES)	1.166	1.166	1.166	1.166
		(AC-FT)	122.	122.	122.	122.

CUMULATIVE AREA = 1.97 SQ MI

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HYDROGRAPH AT STATION B3
TRANSPOSITION AREA 10.0 SQ MI

TOTAL RAINFALL = 3.99, TOTAL LOSS = 2.88, TOTAL EXCESS = 1.11

PEAK FLOW (CFS)	TIME (HR)		6-HR	MAXIMUM AVERAGE FLOW 24-HR	72-HR	24.92-HR
1385.	12.58	(CFS)	235.	59.	57.	57.
		(INCHES)	1.110	1.110	1.110	1.110
		(AC-FT)	117.	117.	117.	117.

CUMULATIVE AREA = 1.97 SQ MI

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HYDROGRAPH AT STATION B3
TRANSPOSITION AREA 50.0 SQ MI

TOTAL RAINFALL = 3.70, TOTAL LOSS = 2.72, TOTAL EXCESS = .98

PEAK FLOW (CFS)	TIME (HR)		6-HR	MAXIMUM AVERAGE FLOW 24-HR	72-HR	24.92-HR
1228.	12.58	(CFS)	209.	52.	50.	50.
		(INCHES)	.984	.984	.984	.984
		(AC-FT)	103.	103.	103.	103.

CUMULATIVE AREA = 1.97 SQ MI

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HYDROGRAPH AT STATION B3
TRANSPOSITION AREA 100.0 SQ MI

TOTAL RAINFALL = 3.57, TOTAL LOSS = 2.64, TOTAL EXCESS = .93

PEAK FLOW (CFS)	TIME (HR)		6-HR	MAXIMUM AVERAGE FLOW 24-HR	72-HR	24.92-HR
1157.	12.58	(CFS)	196.	49.	47.	47.
		(INCHES)	.927	.927	.927	.927
		(AC-FT)	97.	97.	97.	97.

CUMULATIVE AREA = 1.97 SQ MI

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HYDROGRAPH AT STATION B3
TRANSPOSITION AREA 500.0 SQ MI

TOTAL RAINFALL = 3.28, TOTAL LOSS = 2.48, TOTAL EXCESS = .80

PEAK FLOW (CFS)	TIME (HR)		6-HR	MAXIMUM AVERAGE FLOW 24-HR	72-HR	24.92-HR
996.	12.58	(CFS)	169.	42.	41.	41.
		(INCHES)	.798	.798	.798	.798
		(AC-FT)	84.	84.	84.	84.

CUMULATIVE AREA = 1.97 SQ MI

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INTERPOLATED HYDROGRAPH AT B3

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	0.	*	1		1230	151	1414.	*	1		1845	226	0.
1		0005	2	0.	*	1		0620	77	0.	*	1		1235	152	1461.	*	1		1850	227	0.
1		0010	3	0.	*	1		0625	78	0.	*	1		1240	153	1453.	*	1		1855	228	0.
1		0015	4	0.	*	1		0630	79	0.	*	1		1245	154	1375.	*	1		1900	229	0.
1		0020	5	0.	*	1		0635	80	0.	*	1		1250	155	1192.	*	1		1905	230	0.
1		0025	6	0.	*	1		0640	81	0.	*	1		1255	156	1010.	*	1		1910	231	0.
1		0030	7	0.	*	1		0645	82	0.	*	1		1300	157	851.	*	1		1915	232	0.
1		0035	8	0.	*	1		0650	83	0.	*	1		1305	158	692.	*	1		1920	233	0.
1		0040	9	0.	*	1		0655	84	0.	*	1		1310	159	556.	*	1		1925	234	0.
1		0045	10	0.	*	1		0700	85	0.	*	1		1315	160	443.	*	1		1930	235	0.
1		0050	11	0.	*	1		0705	86	0.	*	1		1320	161	338.	*	1		1935	236	0.
1		0055	12	0.	*	1		0710	87	0.	*	1		1325	162	255.	*	1		1940	237	0.
1		0100	13	0.	*	1		0715	88	0.	*	1		1330	163	190.	*	1		1945	238	0.
1		0105	14	0.	*	1		0720	89	0.	*	1		1335	164	152.	*	1		1950	239	0.
1		0110	15	0.	*	1		0725	90	0.	*	1		1340	165	117.	*	1		1955	240	0.
1		0115	16	0.	*	1		0730	91	0.	*	1		1345	166	85.	*	1		2000	241	0.
1		0120	17	0.	*	1		0735	92	0.	*	1		1350	167	68.	*	1		2005	242	0.
1		0125	18	0.	*	1		0740	93	0.	*	1		1355	168	50.	*	1		2010	243	0.
1		0130	19	0.	*	1		0745	94	0.	*	1		1400	169	46.	*	1		2015	244	0.
1		0135	20	0.	*	1		0750	95	0.	*	1		1405	170	46.	*	1		2020	245	0.
1		0140	21	0.	*	1		0755	96	0.	*	1		1410	171	38.	*	1		2025	246	0.
1		0145	22	0.	*	1		0800	97	0.	*	1		1415	172	31.	*	1		2030	247	0.
1		0150	23	0.	*	1		0805	98	0.	*	1		1420	173	23.	*	1		2035	248	0.
1		0155	24	0.	*	1		0810	99	0.	*	1		1425	174	16.	*	1		2040	249	0.
1		0200	25	0.	*	1		0815	100	0.	*	1		1430	175	8.	*	1		2045	250	0.
1		0205	26	0.	*	1		0820	101	0.	*	1		1435	176	0.	*	1		2050	251	0.
1		0210	27	0.	*	1		0825	102	0.	*	1		1440	177	0.	*	1		2055	252	0.
1		0215	28	0.	*	1		0830	103	0.	*	1		1445	178	0.	*	1		2100	253	0.
1		0220	29	0.	*	1		0835	104	0.	*	1		1450	179	0.	*	1		2105	254	0.
1		0225	30	0.	*	1		0840	105	0.	*	1		1455	180	0.	*	1		2110	255	0.
1		0230	31	0.	*	1		0845	106	0.	*	1		1500	181	0.	*	1		2115	256	0.
1		0235	32	0.	*	1		0850	107	0.	*	1		1505	182	0.	*	1		2120	257	0.
1		0240	33	0.	*	1		0855	108	0.	*	1		1510	183	0.	*	1		2125	258	0.
1		0245	34	0.	*	1		0900	109	0.	*	1		1515	184	0.	*	1		2130	259	0.
1		0250	35	0.	*	1		0905	110	0.	*	1		1520	185	0.	*	1		2135	260	0.
1		0255	36	0.	*	1		0910	111	0.	*	1		1525	186	0.	*	1		2140	261	0.
1		0300	37	0.	*	1		0915	112	0.	*	1		1530	187	0.	*	1		2145	262	0.
1		0305	38	0.	*	1		0920	113	0.	*	1		1535	188	0.	*	1		2150	263	0.
1		0310	39	0.	*	1		0925	114	0.	*	1		1540	189	0.	*	1		2155	264	0.
1		0315	40	0.	*	1		0930	115	0.	*	1		1545	190	0.	*	1		2200	265	0.
1		0320	41	0.	*	1		0935	116	0.	*	1		1550	191	0.	*	1		2205	266	0.
1		0325	42	0.	*	1		0940	117	0.	*	1		1555	192	0.	*	1		2210	267	0.
1		0330	43	0.	*	1		0945	118	0.	*	1		1600	193	0.	*	1		2215	268	0.
1		0335	44	0.	*	1		0950	119	0.	*	1		1605	194	0.	*	1		2220	269	0.
1		0340	45	0.	*	1		0955	120	0.	*	1		1610	195	0.	*	1		2225	270	0.
1		0345	46	0.	*	1		1000	121	0.	*	1		1615	196	0.	*	1		2230	271	0.
1		0350	47	0.	*	1		1005	122	0.	*	1		1620	197	0.	*	1		2235	272	0.
1		0355	48	0.	*	1		1010	123	0.	*	1		1625	198	0.	*	1		2240	273	0.
1		0400	49	0.	*	1		1015	124	0.	*	1		1630	199	0.	*	1		2245	274	0.
1		0405	50	0.	*	1		1020	125	0.	*	1		1635	200	0.	*	1		2250	275	0.
1		0410	51	0.	*	1		1025	126	0.	*	1		1640	201	0.	*	1		2255	276	0.
1		0415	52	0.	*	1		1030	127	0.	*	1		1645	202	0.	*	1		2300	277	0.
1		0420	53	0.	*	1		1035	128	0.	*	1		1650	203	0.	*	1		2305	278	0.
1		0425	54	0.	*	1		1040	129	0.	*	1		1655	204	0.	*	1		2310	279	0.

1	0430	55	0.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	0.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	0.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	0.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	0.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	0.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	0.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	0.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	0.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	0.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	0.	*	1	1135	140	24.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	0.	*	1	1140	141	49.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	0.	*	1	1145	142	107.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	0.	*	1	1150	143	204.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	0.	*	1	1155	144	326.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	0.	*	1	1200	145	467.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	0.	*	1	1205	146	604.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	0.	*	1	1210	147	768.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	0.	*	1	1215	148	940.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	0.	*	1	1220	149	1150.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	0.	*	1	1225	150	1316.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
1461.	12.58	(CFS)	248.	62.	60.	60.
		(INCHES)	1.171	1.171	1.171	1.171
		(AC-FT)	123.	123.	123.	123.

CUMULATIVE AREA = 1.97 SQ MI

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          *            *
132 KK    *        2B  *
          *            *
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Combining B1+B2 & B3

134 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

135 HC HYDROGRAPH COMBINATION

ICOMP	2	NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 2B
TRANSPOSITION AREA .0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1501.	12.58	(CFS)	382.	97.	93.	93.
		(INCHES)	1.180	1.195	1.195	1.195
		(AC-FT)	189.	192.	192.	192.

CUMULATIVE AREA = 3.01 SQ MI

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HYDROGRAPH AT STATION 2B
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1459.	12.58	(CFS)	371.	94.	90.	90.
		(INCHES)	1.146	1.161	1.161	1.161
		(AC-FT)	184.	186.	186.	186.

CUMULATIVE AREA = 3.01 SQ MI

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

HYDROGRAPH AT STATION 2B
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1389.	12.58	(CFS)	353.	89.	86.	86.
		(INCHES)	1.089	1.104	1.104	1.104
		(AC-FT)	175.	177.	177.	177.

CUMULATIVE AREA = 3.01 SQ MI

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

HYDROGRAPH AT STATION 2B
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1232.	12.58	(CFS)	311.	79.	76.	76.
		(INCHES)	.962	.975	.975	.975
		(AC-FT)	154.	157.	157.	157.

CUMULATIVE AREA = 3.01 SQ MI

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

HYDROGRAPH AT STATION 2B

TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1161.	12.58	(CFS)	293.	74.	71.	71.
		(INCHES)	.904	.917	.917	.917
		(AC-FT)	145.	147.	147.	147.

CUMULATIVE AREA = 3.01 SQ MI

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

HYDROGRAPH AT STATION 2B
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1000.	12.58	(CFS)	250.	64.	61.	61.
		(INCHES)	.773	.785	.785	.785
		(AC-FT)	124.	126.	126.	126.

CUMULATIVE AREA = 3.01 SQ MI

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INTERPOLATED HYDROGRAPH AT 2B

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	1.	1		1230	151	1415.	1		1845	226	3.
1		0005	2	0.	1		0620	77	1.	1		1235	152	1462.	1		1850	227	3.
1		0010	3	0.	1		0625	78	1.	1		1240	153	1456.	1		1855	228	3.
1		0015	4	0.	1		0630	79	1.	1		1245	154	1379.	1		1900	229	3.
1		0020	5	0.	1		0635	80	1.	1		1250	155	1200.	1		1905	230	3.
1		0025	6	0.	1		0640	81	1.	1		1255	156	1024.	1		1910	231	3.
1		0030	7	0.	1		0645	82	1.	1		1300	157	874.	1		1915	232	3.
1		0035	8	0.	1		0650	83	1.	1		1305	158	730.	1		1920	233	2.
1		0040	9	0.	1		0655	84	1.	1		1310	159	625.	1		1925	234	2.
1		0045	10	0.	1		0700	85	1.	1		1315	160	569.	1		1930	235	2.
1		0050	11	0.	1		0705	86	1.	1		1320	161	577.	1		1935	236	2.
1		0055	12	0.	1		0710	87	1.	1		1325	162	700.	1		1940	237	2.
1		0100	13	0.	1		0715	88	1.	1		1330	163	732.	1		1945	238	2.
1		0105	14	0.	1		0720	89	1.	1		1335	164	717.	1		1950	239	2.
1		0110	15	0.	1		0725	90	1.	1		1340	165	664.	1		1955	240	2.
1		0115	16	0.	1		0730	91	1.	1		1345	166	591.	1		2000	241	2.
1		0120	17	0.	1		0735	92	1.	1		1350	167	521.	1		2005	242	2.
1		0125	18	0.	1		0740	93	1.	1		1355	168	450.	1		2010	243	2.
1		0130	19	0.	1		0745	94	2.	1		1400	169	397.	1		2015	244	2.
1		0135	20	0.	1		0750	95	2.	1		1405	170	357.	1		2020	245	2.
1		0140	21	0.	1		0755	96	2.	1		1410	171	319.	1		2025	246	2.
1		0145	22	0.	1		0800	97	2.	1		1415	172	291.	1		2030	247	2.
1		0150	23	0.	1		0805	98	2.	1		1420	173	271.	1		2035	248	2.
1		0155	24	0.	1		0810	99	2.	1		1425	174	258.	1		2040	249	2.
1		0200	25	0.	1		0815	100	2.	1		1430	175	247.	1		2045	250	2.
1		0205	26	0.	1		0820	101	2.	1		1435	176	234.	1		2050	251	2.
1		0210	27	0.	1		0825	102	2.	1		1440	177	227.	1		2055	252	2.

1	0215	28	0.	*	1	0830	103	2.	*	1	1445	178	219.	*	1	2100	253	2.
1	0220	29	0.	*	1	0835	104	2.	*	1	1450	179	209.	*	1	2105	254	2.
1	0225	30	0.	*	1	0840	105	2.	*	1	1455	180	198.	*	1	2110	255	2.
1	0230	31	0.	*	1	0845	106	2.	*	1	1500	181	185.	*	1	2115	256	2.
1	0235	32	0.	*	1	0850	107	2.	*	1	1505	182	172.	*	1	2120	257	2.
1	0240	33	0.	*	1	0855	108	2.	*	1	1510	183	159.	*	1	2125	258	2.
1	0245	34	0.	*	1	0900	109	2.	*	1	1515	184	145.	*	1	2130	259	2.
1	0250	35	0.	*	1	0905	110	2.	*	1	1520	185	132.	*	1	2135	260	2.
1	0255	36	0.	*	1	0910	111	2.	*	1	1525	186	120.	*	1	2140	261	2.
1	0300	37	0.	*	1	0915	112	2.	*	1	1530	187	108.	*	1	2145	262	2.
1	0305	38	0.	*	1	0920	113	2.	*	1	1535	188	97.	*	1	2150	263	2.
1	0310	39	0.	*	1	0925	114	2.	*	1	1540	189	87.	*	1	2155	264	2.
1	0315	40	1.	*	1	0930	115	2.	*	1	1545	190	78.	*	1	2200	265	2.
1	0320	41	1.	*	1	0935	116	2.	*	1	1550	191	70.	*	1	2205	266	2.
1	0325	42	1.	*	1	0940	117	2.	*	1	1555	192	63.	*	1	2210	267	2.
1	0330	43	1.	*	1	0945	118	2.	*	1	1600	193	57.	*	1	2215	268	2.
1	0335	44	1.	*	1	0950	119	2.	*	1	1605	194	51.	*	1	2220	269	2.
1	0340	45	1.	*	1	0955	120	2.	*	1	1610	195	45.	*	1	2225	270	2.
1	0345	46	1.	*	1	1000	121	2.	*	1	1615	196	41.	*	1	2230	271	2.
1	0350	47	1.	*	1	1005	122	2.	*	1	1620	197	36.	*	1	2235	272	2.
1	0355	48	1.	*	1	1010	123	2.	*	1	1625	198	33.	*	1	2240	273	2.
1	0400	49	1.	*	1	1015	124	2.	*	1	1630	199	29.	*	1	2245	274	2.
1	0405	50	1.	*	1	1020	125	2.	*	1	1635	200	26.	*	1	2250	275	2.
1	0410	51	1.	*	1	1025	126	2.	*	1	1640	201	23.	*	1	2255	276	1.
1	0415	52	1.	*	1	1030	127	2.	*	1	1645	202	20.	*	1	2300	277	1.
1	0420	53	1.	*	1	1035	128	2.	*	1	1650	203	18.	*	1	2305	278	1.
1	0425	54	1.	*	1	1040	129	2.	*	1	1655	204	16.	*	1	2310	279	1.
1	0430	55	1.	*	1	1045	130	2.	*	1	1700	205	14.	*	1	2315	280	1.
1	0435	56	1.	*	1	1050	131	2.	*	1	1705	206	12.	*	1	2320	281	1.
1	0440	57	1.	*	1	1055	132	2.	*	1	1710	207	11.	*	1	2325	282	1.
1	0445	58	1.	*	1	1100	133	2.	*	1	1715	208	10.	*	1	2330	283	1.
1	0450	59	1.	*	1	1105	134	2.	*	1	1720	209	9.	*	1	2335	284	1.
1	0455	60	1.	*	1	1110	135	2.	*	1	1725	210	8.	*	1	2340	285	1.
1	0500	61	1.	*	1	1115	136	2.	*	1	1730	211	7.	*	1	2345	286	1.
1	0505	62	1.	*	1	1120	137	2.	*	1	1735	212	6.	*	1	2350	287	1.
1	0510	63	1.	*	1	1125	138	3.	*	1	1740	213	6.	*	1	2355	288	1.
1	0515	64	1.	*	1	1130	139	3.	*	1	1745	214	5.	*	2	0000	289	1.
1	0520	65	1.	*	1	1135	140	27.	*	1	1750	215	5.	*	2	0005	290	1.
1	0525	66	1.	*	1	1140	141	51.	*	1	1755	216	4.	*	2	0010	291	1.
1	0530	67	1.	*	1	1145	142	110.	*	1	1800	217	4.	*	2	0015	292	1.
1	0535	68	1.	*	1	1150	143	207.	*	1	1805	218	4.	*	2	0020	293	1.
1	0540	69	1.	*	1	1155	144	328.	*	1	1810	219	4.	*	2	0025	294	1.
1	0545	70	1.	*	1	1200	145	469.	*	1	1815	220	3.	*	2	0030	295	1.
1	0550	71	1.	*	1	1205	146	606.	*	1	1820	221	3.	*	2	0035	296	1.
1	0555	72	1.	*	1	1210	147	769.	*	1	1825	222	3.	*	2	0040	297	1.
1	0600	73	1.	*	1	1215	148	941.	*	1	1830	223	3.	*	2	0045	298	1.
1	0605	74	1.	*	1	1220	149	1151.	*	1	1835	224	3.	*	2	0050	299	1.
1	0610	75	1.	*	1	1225	150	1317.	*	1	1840	225	3.	*	2	0055	300	1.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
1462.	12.58	(CFS)	372.	94.	91.	91.
		(INCHES)	1.148	1.163	1.163	1.163
		(AC-FT)	184.	187.	187.	187.

CUMULATIVE AREA = 3.01 SQ MI

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          **************
          *            *
136 KK    *        C1  *
          *            *
          **************
                    BASIN C1
                     THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
                     L=      3.5  Lca=      1.9   S=  619.0  Kn= .050  LAG=  44.0
                     PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN

141 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL          0.  HYDROGRAPH PLOT SCALE
                      IPNCH          0  PUNCH COMPUTED HYDROGRAPH
                       IOUT         22  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


              SUBBASIN RUNOFF DATA

    BA        SUBBASIN CHARACTERISTICS
                      TAREA       3.58  SUBBASIN AREA

143 LG          GREEN AND AMPT LOSS RATE
                      STRTL        .33  STARTING LOSS
                        DTH        .35  MOISTURE DEFICIT
                       PSIF       4.28  WETTING FRONT SUCTION
                      XKSAT        .41  HYDRAULIC CONDUCTIVITY
                      RTIMP      19.00  PERCENT IMPERVIOUS AREA

142 UI          INPUT UNITGRAPH,  40 ORDINATES,  VOLUME = 1.00
                   274.0     274.0     845.0    1300.0    1740.0    2055.0    2488.0    3182.0    2054.0    1694.0
                  1523.0    1358.0    1207.0    1070.0     900.0     750.0     662.0     611.0     530.0     438.0
                   350.0     323.0     300.0     238.0     210.0     207.0     134.0     134.0     134.0     134.0
                    60.0      52.0      52.0      52.0      52.0      52.0      52.0      52.0      52.0      52.0

                                                    ***

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

                       HYDROGRAPH AT STATION       C1
                      TRANSPOSITION AREA       .0 SQ MI

   TOTAL RAINFALL =    4.20, TOTAL LOSS =    2.50, TOTAL EXCESS =    1.70

PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
  (CFS)       (HR)                 6-HR       24-HR       72-HR     24.92-HR
 2736.      12.33       (CFS)      561.        163.        157.        157.
                       (INCHES)   1.457       1.689       1.691       1.691
                       (AC-FT)    278.        323.        323.        323.

                      CUMULATIVE AREA =    3.58 SQ MI
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HYDROGRAPH AT STATION C1
TRANSPOSITION AREA 5.0 SQ MI

TOTAL RAINFALL = 4.12, TOTAL LOSS = 2.47, TOTAL EXCESS = 1.65

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2658.	12.33	(CFS)	546.	158.	153.	153.
		(INCHES)	1.418	1.645	1.647	1.647
		(AC-FT)	271.	314.	314.	314.

CUMULATIVE AREA = 3.58 SQ MI

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

HYDROGRAPH AT STATION C1
TRANSPOSITION AREA 10.0 SQ MI

TOTAL RAINFALL = 3.99, TOTAL LOSS = 2.41, TOTAL EXCESS = 1.58

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2531.	12.33	(CFS)	521.	151.	146.	146.
		(INCHES)	1.353	1.574	1.575	1.575
		(AC-FT)	258.	300.	301.	301.

CUMULATIVE AREA = 3.58 SQ MI

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

HYDROGRAPH AT STATION C1
TRANSPOSITION AREA 50.0 SQ MI

TOTAL RAINFALL = 3.70, TOTAL LOSS = 2.28, TOTAL EXCESS = 1.42

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2244.	12.33	(CFS)	465.	136.	131.	131.
		(INCHES)	1.208	1.412	1.414	1.414
		(AC-FT)	231.	270.	270.	270.

CUMULATIVE AREA = 3.58 SQ MI

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

HYDROGRAPH AT STATION C1
TRANSPOSITION AREA 100.0 SQ MI

TOTA RAINFALL = 3.57, TOTAL LOSS = 2.22, TOTAL EXCESS = 1.35

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2113.	12.33	(CFS)	440.	129.	124.	124.

(INCHES)	1.142	1.339	1.340	1.340
(AC-FT)	218.	256.	256.	256.

CUMULATIVE AREA = 3.58 SQ MI

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

HYDROGRAPH AT STATION C1
TRANSPOSITION AREA 500.0 SQ MI

TOTAL RAINFALL = 3.28, TOTAL LOSS = 2.10, TOTAL EXCESS = 1.18

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1819.	12.33	(CFS)	382.	113.	109.	109.
		(INCHES)	.993	1.174	1.175	1.175
		(AC-FT)	190.	224.	224.	224.

CUMULATIVE AREA = 3.58 SQ MI

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INTERPOLATED HYDROGRAPH AT C1

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	30.	1		1230	151	2520.	1		1845	226	32.
1		0005	2	0.	1		0620	77	30.	1		1235	152	2287.	1		1850	227	31.
1		0010	3	0.	1		0625	78	31.	1		1240	153	1891.	1		1855	228	31.
1		0015	4	1.	1		0630	79	31.	1		1245	154	1676.	1		1900	229	31.
1		0020	5	2.	1		0635	80	31.	1		1250	155	1498.	1		1905	230	30.
1		0025	6	3.	1		0640	81	31.	1		1255	156	1332.	1		1910	231	30.
1		0030	7	4.	1		0645	82	32.	1		1300	157	1186.	1		1915	232	30.
1		0035	8	6.	1		0650	83	32.	1		1305	158	1050.	1		1920	233	30.
1		0040	9	8.	1		0655	84	32.	1		1310	159	919.	1		1925	234	30.
1		0045	10	9.	1		0700	85	32.	1		1315	160	807.	1		1930	235	30.
1		0050	11	11.	1		0705	86	32.	1		1320	161	720.	1		1935	236	29.
1		0055	12	12.	1		0710	87	32.	1		1325	162	644.	1		1940	237	29.
1		0100	13	13.	1		0715	88	32.	1		1330	163	567.	1		1945	238	29.
1		0105	14	14.	1		0720	89	33.	1		1335	164	499.	1		1950	239	29.
1		0110	15	15.	1		0725	90	33.	1		1340	165	447.	1		1955	240	29.
1		0115	16	16.	1		0730	91	34.	1		1345	166	400.	1		2000	241	28.
1		0120	17	17.	1		0735	92	35.	1		1350	167	359.	1		2005	242	28.
1		0125	18	17.	1		0740	93	35.	1		1355	168	322.	1		2010	243	28.
1		0130	19	17.	1		0745	94	36.	1		1400	169	296.	1		2015	244	27.
1		0135	20	17.	1		0750	95	37.	1		1405	170	263.	1		2020	245	27.
1		0140	21	18.	1		0755	96	37.	1		1410	171	228.	1		2025	246	27.
1		0145	22	18.	1		0800	97	37.	1		1415	172	209.	1		2030	247	27.
1		0150	23	18.	1		0805	98	38.	1		1420	173	189.	1		2035	248	26.
1		0155	24	18.	1		0810	99	38.	1		1425	174	170.	1		2040	249	26.
1		0200	25	19.	1		0815	100	39.	1		1430	175	151.	1		2045	250	26.
1		0205	26	19.	1		0820	101	39.	1		1435	176	146.	1		2050	251	26.
1		0210	27	19.	1		0825	102	40.	1		1440	177	142.	1		2055	252	25.
1		0215	28	20.	1		0830	103	40.	1		1445	178	139.	1		2100	253	25.
1		0220	29	20.	1		0835	104	41.	1		1450	179	137.	1		2105	254	25.
1		0225	30	20.	1		0840	105	42.	1		1455	180	125.	1		2110	255	24.

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  1   0230  31     20.  *  1   0845 106     43.  *  1   1500 181    113.  *  1   2115 256     24.
  1   0235  32     21.  *  1   0850 107     44.  *  1   1505 182    101.  *  1   2120 257     24.
  1   0240  33     21.  *  1   0855 108     44.  *  1   1510 183     90.  *  1   2125 258     24.
  1   0245  34     21.  *  1   0900 109     45.  *  1   1515 184     78.  *  1   2130 259     24.
  1   0250  35     21.  *  1   0905 110     46.  *  1   1520 185     66.  *  1   2135 260     24.
  1   0255  36     22.  *  1   0910 111     47.  *  1   1525 186     64.  *  1   2140 261     24.
  1   0300  37     22.  *  1   0915 112     47.  *  1   1530 187     63.  *  1   2145 262     24.
  1   0305  38     22.  *  1   0920 113     48.  *  1   1535 188     61.  *  1   2150 263     24.
  1   0310  39     23.  *  1   0925 114     49.  *  1   1540 189     59.  *  1   2155 264     24.
  1   0315  40     23.  *  1   0930 115     50.  *  1   1545 190     58.  *  1   2200 265     24.
  1   0320  41     23.  *  1   0935 116     51.  *  1   1550 191     56.  *  1   2205 266     24.
  1   0325  42     23.  *  1   0940 117     52.  *  1   1555 192     55.  *  1   2210 267     23.
  1   0330  43     23.  *  1   0945 118     53.  *  1   1600 193     53.  *  1   2215 268     23.
  1   0335  44     23.  *  1   0950 119     54.  *  1   1605 194     52.  *  1   2220 269     23.
  1   0340  45     23.  *  1   0955 120     55.  *  1   1610 195     51.  *  1   2225 270     23.
  1   0345  46     23.  *  1   1000 121     56.  *  1   1615 196     49.  *  1   2230 271     23.
  1   0350  47     23.  *  1   1005 122     58.  *  1   1620 197     48.  *  1   2235 272     22.
  1   0355  48     23.  *  1   1010 123     59.  *  1   1625 198     47.  *  1   2240 273     22.
  1   0400  49     23.  *  1   1015 124     60.  *  1   1630 199     47.  *  1   2245 274     22.
  1   0405  50     23.  *  1   1020 125     62.  *  1   1635 200     46.  *  1   2250 275     22.
  1   0410  51     24.  *  1   1025 126     64.  *  1   1640 201     45.  *  1   2255 276     22.
  1   0415  52     24.  *  1   1030 127     66.  *  1   1645 202     44.  *  1   2300 277     21.
  1   0420  53     24.  *  1   1035 128     68.  *  1   1650 203     43.  *  1   2305 278     21.
  1   0425  54     25.  *  1   1040 129     71.  *  1   1655 204     43.  *  1   2310 279     20.
  1   0430  55     25.  *  1   1045 130     73.  *  1   1700 205     42.  *  1   2315 280     20.
  1   0435  56     26.  *  1   1050 131     76.  *  1   1705 206     42.  *  1   2320 281     20.
  1   0440  57     26.  *  1   1055 132     79.  *  1   1710 207     42.  *  1   2325 282     20.
  1   0445  58     26.  *  1   1100 133     83.  *  1   1715 208     41.  *  1   2330 283     20.
  1   0450  59     27.  *  1   1105 134     87.  *  1   1720 209     41.  *  1   2335 284     20.
  1   0455  60     27.  *  1   1110 135     92.  *  1   1725 210     40.  *  1   2340 285     21.
  1   0500  61     27.  *  1   1115 136     96.  *  1   1730 211     40.  *  1   2345 286     21.
  1   0505  62     26.  *  1   1120 137    102.  *  1   1735 212     39.  *  1   2350 287     20.
  1   0510  63     26.  *  1   1125 138    108.  *  1   1740 213     39.  *  1   2355 288     20.
  1   0515  64     26.  *  1   1130 139    114.  *  1   1745 214     38.  *  2   0000 289     20.
  1   0520  65     26.  *  1   1135 140    171.  *  1   1750 215     38.  *  2   0005 290     20.
  1   0525  66     26.  *  1   1140 141    230.  *  1   1755 216     37.  *  2   0010 291     19.
  1   0530  67     27.  *  1   1145 142    390.  *  1   1800 217     37.  *  2   0015 292     19.
  1   0535  68     27.  *  1   1150 143    635.  *  1   1805 218     36.  *  2   0020 293     17.
  1   0540  69     27.  *  1   1155 144    963.  *  1   1810 219     36.  *  2   0025 294     16.
  1   0545  70     28.  *  1   1200 145   1353.  *  1   1815 220     35.  *  2   0030 295     15.
  1   0550  71     28.  *  1   1205 146   1773.  *  1   1820 221     35.  *  2   0035 296     13.
  1   0555  72     28.  *  1   1210 147   2324.  *  1   1825 222     34.  *  2   0040 297     11.
  1   0600  73     29.  *  1   1215 148   2570.  *  1   1830 223     33.  *  2   0045 298      9.
  1   0605  74     29.  *  1   1220 149   2662.  *  1   1835 224     33.  *  2   0050 299      8.
  1   0610  75     30.  *  1   1225 150   2638.  *  1   1840 225     32.  *  2   0055 300      7.
                        *                        *                        *
**********************************************************************************************************************************

 PEAK FLOW    TIME                      MAXIMUM AVERAGE FLOW
   (CFS)      (HR)              6-HR      24-HR      72-HR     24.92-HR
   2662.     12.33     (CFS)    547.       159.       153.        153.
                     (INCHES)  1.420      1.648      1.649       1.649
                      (AC-FT)   271.       315.       315.        315.

                      CUMULATIVE AREA =    3.58 SQ MI


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          *            *
KK        *    C1-1C   *       Routing thru C2
          *            *
          **************

151 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          2  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL          0.  HYDROGRAPH PLOT SCALE
                     IPNCH          0  PUNCH COMPUTED HYDROGRAPH
                      IOUT         22  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


               HYDROGRAPH ROUTING DATA

152 RS          STORAGE ROUTING
                     NSTPS          7  NUMBER OF SUBREACHES
                      ITYP       FLOW  TYPE OF INITIAL CONDITION
                     RSVRIC       .00  INITIAL CONDITION
                          X       .00 WORKING R AND D COEFFICIENT

153 RC          NORMAL DEPTH CHANNEL
                       ANL       .050  LEFT OVERBANK N-VALUE
                      ANCH       .044  MAIN CHANNEL N-VALUE
                       ANR       .050  RIGHT OVERBANK N-VALUE
                     RLNTH      17760.  REACH LENGTH
                       SEL      .0200  ENERGY SLOPE
                     ELMAX         .0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                    CROSS-SECTION DATA
                          --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
155 RY       ELEVATION     21.00     19.00     16.00     10.00     10.00     15.00     20.00     24.00
154 RX       DISTANCE        .00     35.00     90.00    138.00    159.00    209.00    264.00    309.00

                                              ***

                                    COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

          STORAGE        .00      8.30     20.59     36.86     57.11     81.35    109.57    141.79    178.14    219.54
          OUTFLOW        .00     68.79    251.12    562.35   1022.73   1652.13   2469.59   3524.01   4912.23   6695.40
        ELEVATION      10.00     10.74     11.47     12.21     12.95     13.68     14.42     15.16     15.89     16.63

          STORAGE     267.40    321.76    382.62    449.91    523.51    603.47    687.58    774.18    863.28    954.86
          OUTFLOW    8802.62  11243.08  14044.60  17234.75  20832.77  24871.98  29514.76  34599.90  40122.65  46080.51
        ELEVATION      17.37     18.11     18.84     19.58     20.32     21.05     21.79     22.53     23.26     24.00


*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN     4912. TO    46081.
                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    C1-1C
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TRANSPOSITION AREA .0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2505.	12.75	(CFS)	560.	162.	156.	156.
		(INCHES)	1.455	1.680	1.680	1.680
		(AC-FT)	278.	321.	321.	321.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
16.	12.75	5.	2.	1.	1.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
14.45	12.75	11.77	10.67	10.65	10.65

CUMULATIVE AREA = 3.58 SQ MI

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HYDROGRAPH AT STATION C1-1C
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2427.	12.83	(CFS)	545.	158.	152.	152.
		(INCHES)	1.416	1.636	1.636	1.636
		(AC-FT)	270.	312.	312.	312.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
15.	12.83	4.	1.	1.	1.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
14.38	12.83	11.74	10.66	10.64	10.64

CUMULATIVE AREA = 3.58 SQ MI

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HYDROGRAPH AT STATION C1-1C
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2311.	12.83	(CFS)	520.	151.	145.	145.
		(INCHES)	1.351	1.565	1.565	1.565
		(AC-FT)	258.	299.	299.	299.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
15.	12.83	4.	1.	1.	1.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
14.28	12.83	11.70	10.65	10.62	10.62

CUMULATIVE AREA = 3.58 SQ MI

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HYDROGRAPH AT STATION C1-1C
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
2046.	12.83	(CFS)	464.	135.	130.	130.
		(INCHES)	1.206	1.404	1.404	1.404
		(AC-FT)	230.	268.	268.	268.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
14.	12.83	4.	1.	1.	1.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
14.04	12.83	11.61	10.61	10.59	10.59

CUMULATIVE AREA = 3.58 SQ MI

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HYDROGRAPH AT STATION C1-1C
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
1924.	12.83	(CFS)	439.	128.	123.	123.
		(INCHES)	1.140	1.331	1.331	1.331
		(AC-FT)	218.	254.	254.	254.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
13.	12.83	4.	1.	1.	1.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
13.93	12.83	11.57	10.59	10.57	10.57

CUMULATIVE AREA = 3.58 SQ MI

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HYDROGRAPH AT STATION C1-1C
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
1635.	12.83	(CFS)	382.	112.	108.	108.
		(INCHES)	.991	1.167	1.167	1.167
		(AC-FT)	189.	223.	223.	223.

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

12.	12.83	3.	1.	1.	1.	

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
3.66	12.83	11.47	10.55	10.53	10.53

CUMULATIVE AREA = 3.58 SQ MI

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INTERPOLATED HYDROGRAPH AT C1-1C

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	26.	1		1230	151	1508.	1		1845	226	41.
1		0005	2	0.	1		0620	77	26.	1		1235	152	1963.	1		1850	227	41.
1		0010	3	0.	1		0625	78	26.	1		1240	153	2277.	1		1855	228	40.
1		0015	4	0.	1		0630	79	26.	1		1245	154	2425.	1		1900	229	40.
1		0020	5	0.	1		0635	80	26.	1		1250	155	2431.	1		1905	230	39.
1		0025	6	0.	1		0640	81	27.	1		1255	156	2329.	1		1910	231	39.
1		0030	7	0.	1		0645	82	27.	1		1300	157	2157.	1		1915	232	38.
1		0035	8	0.	1		0650	83	27.	1		1305	158	1954.	1		1920	233	37.
1		0040	9	0.	1		0655	84	27.	1		1310	159	1756.	1		1925	234	37.
1		0045	10	0.	1		0700	85	27.	1		1315	160	1587.	1		1930	235	36.
1		0050	11	0.	1		0705	86	28.	1		1320	161	1439.	1		1935	236	36.
1		0055	12	0.	1		0710	87	28.	1		1325	162	1294.	1		1940	237	35.
1		0100	13	0.	1		0715	88	28.	1		1330	163	1161.	1		1945	238	35.
1		0105	14	0.	1		0720	89	29.	1		1335	164	1045.	1		1950	239	34.
1		0110	15	1.	1		0725	90	29.	1		1340	165	952.	1		1955	240	34.
1		0115	16	1.	1		0730	91	29.	1		1345	166	863.	1		2000	241	33.
1		0120	17	1.	1		0735	92	29.	1		1350	167	776.	1		2005	242	33.
1		0125	18	2.	1		0740	93	30.	1		1355	168	696.	1		2010	243	33.
1		0130	19	2.	1		0745	94	30.	1		1400	169	627.	1		2015	244	32.
1		0135	20	3.	1		0750	95	30.	1		1405	170	569.	1		2020	245	32.
1		0140	21	4.	1		0755	96	30.	1		1410	171	525.	1		2025	246	32.
1		0145	22	4.	1		0800	97	31.	1		1415	172	482.	1		2030	247	31.
1		0150	23	5.	1		0805	98	31.	1		1420	173	439.	1		2035	248	31.
1		0155	24	6.	1		0810	99	31.	1		1425	174	398.	1		2040	249	31.
1		0200	25	7.	1		0815	100	32.	1		1430	175	360.	1		2045	250	30.
1		0205	26	8.	1		0820	101	32.	1		1435	176	326.	1		2050	251	30.
1		0210	27	9.	1		0825	102	32.	1		1440	177	296.	1		2055	252	30.
1		0215	28	10.	1		0830	103	32.	1		1445	178	271.	1		2100	253	30.
1		0220	29	11.	1		0835	104	33.	1		1450	179	251.	1		2105	254	29.
1		0225	30	11.	1		0840	105	33.	1		1455	180	236.	1		2110	255	29.
1		0230	31	12.	1		0845	106	34.	1		1500	181	222.	1		2115	256	29.
1		0235	32	13.	1		0850	107	34.	1		1505	182	207.	1		2120	257	29.
1		0240	33	14.	1		0855	108	34.	1		1510	183	193.	1		2125	258	28.
1		0245	34	14.	1		0900	109	35.	1		1515	184	181.	1		2130	259	28.
1		0250	35	15.	1		0905	110	35.	1		1520	185	169.	1		2135	260	28.
1		0255	36	16.	1		0910	111	36.	1		1525	186	158.	1		2140	261	27.
1		0300	37	16.	1		0915	112	36.	1		1530	187	148.	1		2145	262	27.
1		0305	38	17.	1		0920	113	37.	1		1535	188	138.	1		2150	263	27.
1		0310	39	17.	1		0925	114	37.	1		1540	189	128.	1		2155	264	27.
1		0315	40	17.	1		0930	115	38.	1		1545	190	118.	1		2200	265	26.
1		0320	41	18.	1		0935	116	38.	1		1550	191	109.	1		2205	266	26.
1		0325	42	18.	1		0940	117	39.	1		1555	192	100.	1		2210	267	26.
1		0330	43	19.	1		0945	118	40.	1		1600	193	92.	1		2215	268	26.

1	0335	44	19.	*	1	0950	119	40.	*	1	1605	194	86.	*	1	2220	269	25.
1	0340	45	19.	*	1	0955	120	41.	*	1	1610	195	80.	*	1	2225	270	25.
1	0345	46	20.	*	1	1000	121	41.	*	1	1615	196	76.	*	1	2230	271	25.
1	0350	47	20.	*	1	1005	122	42.	*	1	1620	197	73.	*	1	2235	272	25.
1	0355	48	20.	*	1	1010	123	43.	*	1	1625	198	70.	*	1	2240	273	25.
1	0400	49	20.	*	1	1015	124	44.	*	1	1630	199	69.	*	1	2245	274	25.
1	0405	50	21.	*	1	1020	125	44.	*	1	1635	200	68.	*	1	2250	275	24.
1	0410	51	21.	*	1	1025	126	45.	*	1	1640	201	67.	*	1	2255	276	24.
1	0415	52	21.	*	1	1030	127	46.	*	1	1645	202	66.	*	1	2300	277	24.
1	0420	53	21.	*	1	1035	128	47.	*	1	1650	203	64.	*	1	2305	278	24.
1	0425	54	22.	*	1	1040	129	48.	*	1	1655	204	63.	*	1	2310	279	24.
1	0430	55	22.	*	1	1045	130	48.	*	1	1700	205	62.	*	1	2315	280	24.
1	0435	56	22.	*	1	1050	131	49.	*	1	1705	206	60.	*	1	2320	281	24.
1	0440	57	22.	*	1	1055	132	50.	*	1	1710	207	59.	*	1	2325	282	24.
1	0445	58	22.	*	1	1100	133	51.	*	1	1715	208	58.	*	1	2330	283	23.
1	0450	59	22.	*	1	1105	134	52.	*	1	1720	209	56.	*	1	2335	284	23.
1	0455	60	23.	*	1	1110	135	54.	*	1	1725	210	55.	*	1	2340	285	23.
1	0500	61	23.	*	1	1115	136	55.	*	1	1730	211	54.	*	1	2345	286	23.
1	0505	62	23.	*	1	1120	137	56.	*	1	1735	212	53.	*	1	2350	287	23.
1	0510	63	23.	*	1	1125	138	58.	*	1	1740	213	52.	*	1	2355	288	22.
1	0515	64	23.	*	1	1130	139	60.	*	1	1745	214	50.	*	2	0000	289	22.
1	0520	65	23.	*	1	1135	140	63.	*	1	1750	215	49.	*	2	0005	290	22.
1	0525	66	24.	*	1	1140	141	67.	*	1	1755	216	48.	*	2	0010	291	22.
1	0530	67	24.	*	1	1145	142	73.	*	1	1800	217	48.	*	2	0015	292	22.
1	0535	68	24.	*	1	1150	143	82.	*	1	1805	218	47.	*	2	0020	293	22.
1	0540	69	24.	*	1	1155	144	92.	*	1	1810	219	46.	*	2	0025	294	21.
1	0545	70	25.	*	1	1200	145	107.	*	1	1815	220	45.	*	2	0030	295	21.
1	0550	71	25.	*	1	1205	146	135.	*	1	1820	221	44.	*	2	0035	296	21.
1	0555	72	25.	*	1	1210	147	196.	*	1	1825	222	44.	*	2	0040	297	21.
1	0600	73	25.	*	1	1215	148	334.	*	1	1830	223	43.	*	2	0045	298	21.
1	0605	74	25.	*	1	1220	149	598.	*	1	1835	224	43.	*	2	0050	299	21.
1	0610	75	26.	*	1	1225	150	1011.	*	1	1840	225	42.	*	2	0055	300	20.
				*					*					*						

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
2431.	12.83	(CFS)	546.	158.	152.	152.
		(INCHES)	1.418	1.639	1.639	1.639
		(AC-FT)	271.	313.	313.	313.

CUMULATIVE AREA = 3.58 SQ MI

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          *            *
156 KK    *        C2  *
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BASIN C2
THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
L= 3.4 Lca= 1.4 S= 106.0 Kn= .060 LAG= 65.0
PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN

161 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

SUBBASIN RUNOFF DATA

162 BA SUBBASIN CHARACTERISTICS

TAREA	1.84	SUBBASIN AREA

163 LG GREEN AND AMPT LOSS RATE

STRTL	.18	STARTING LOSS
DTH	.35	MOISTURE DEFICIT
PSIF	4.30	WETTING FRONT SUCTION
XKSAT	.40	HYDRAULIC CONDUCTIVITY
RTIMP	.00	PERCENT IMPERVIOUS AREA

162 UI INPUT UNITGRAPH, 38 ORDINATES, VOLUME = 1.00

95.0	95.0	98.0	319.0	389.0	460.0	523.0	576.0	650.0	732.0
865.0	1095.0	1235.0	1029.0	890.0	794.0	716.0	622.0	556.0	482.0
423.0	323.0	229.0	169.0	160.0	157.0	100.0	95.0	95.0	34.0
29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0		

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

HYDROGRAPH AT STATION C2
TRANSPOSITION AREA .0 SQ MI

TOTAL RAINFALL = 4.20, TOTAL LOSS = 3.05, TOTAL EXCESS = 1.15

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1135.	12.83	(CFS)	227.	57.	55.	55.
		(INCHES)	1.149	1.149	1.149	1.149
		(AC-FT)	113.	113.	113.	113.

CUMULATIVE AREA = 1.84 SQ MI

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

HYDROGRAPH AT STATION C2
TRANSPOSITION AREA 5.0 SQ MI

TOTAL RAINFALL = 4.12, TOTAL LOSS = 3.00, TOTAL EXCESS = 1.12

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1101.	12.83	(CFS)	221.	55.	53.	53.
		(INCHES)	1.115	1.115	1.115	1.115
		(AC-FT)	109.	109.	109.	109.

CUMULATIVE AREA = 1.84 SQ MI

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

HYDROGRAPH AT STATION C2
TRANSPOSITION AREA 10.0 SQ MI

TOTAL RAINFALL = 3.99, TOTAL LOSS = 2.93, TOTAL EXCESS = 1.06

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1045.	12.83	(CFS)	209.	52.	50.	50.
		(INCHES)	1.058	1.058	1.058	1.058
		(AC-FT)	104.	104.	104.	104.

CUMULATIVE AREA = 1.84 SQ MI

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

HYDROGRAPH AT STATION C2
TRANSPOSITION AREA 50.0 SQ MI

TOTAL RAINFALL = 3.70, TOTAL LOSS = 2.77, TOTAL EXCESS = .93

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
920.	12.83	(CFS)	184.	46.	44.	44.
		(INCHES)	.931	.931	.931	.931
		(AC-FT)	91.	91.	91.	91.

CUMULATIVE AREA = 1.84 SQ MI

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

HYDROGRAPH AT STATION C2
TRANSPOSITION AREA 100.0 SQ MI

TOTAL RAINFALL = 3.57, TOTAL LOSS = 2.70, TOTAL EXCESS = .87

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
863.	12.83	(CFS)	173.	43.	42.	42.
		(INCHES)	.873	.873	.873	.873
		(AC-FT)	86.	86.	86.	86.

CUMULATIVE AREA = 1.84 SQ MI

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

HYDROGRAPH AT STATION C2
TRANSPOSITION AREA 500.0 SQ MI

TOTAL RAINFALL = 3.28, TOTAL LOSS = 2.54, TOTAL EXCESS = .74

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
735.	12.83	(CFS)	147.	37.	35.	35.

(INCHES)	.742	.742	.742	.742
(AC-FT)	73.	73.	73.	73.

CUMULATIVE AREA = 1.84 SQ MI

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INTERPOLATED HYDROGRAPH AT C2

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	0.	*	1		1230	151	825.	*	1		1845	226	0.
1		0005	2	0.	*	1		0620	77	0.	*	1		1235	152	957.	*	1		1850	227	0.
1		0010	3	0.	*	1		0625	78	0.	*	1		1240	153	1043.	*	1		1855	228	0.
1		0015	4	0.	*	1		0630	79	0.	*	1		1245	154	1091.	*	1		1900	229	0.
1		0020	5	0.	*	1		0635	80	0.	*	1		1250	155	1106.	*	1		1905	230	0.
1		0025	6	0.	*	1		0640	81	0.	*	1		1255	156	1081.	*	1		1910	231	0.
1		0030	7	0.	*	1		0645	82	0.	*	1		1300	157	993.	*	1		1915	232	0.
1		0035	8	0.	*	1		0650	83	0.	*	1		1305	158	865.	*	1		1920	233	0.
1		0040	9	0.	*	1		0655	84	0.	*	1		1310	159	762.	*	1		1925	234	0.
1		0045	10	0.	*	1		0700	85	0.	*	1		1315	160	675.	*	1		1930	235	0.
1		0050	11	0.	*	1		0705	86	0.	*	1		1320	161	587.	*	1		1935	236	0.
1		0055	12	0.	*	1		0710	87	0.	*	1		1325	162	496.	*	1		1940	237	0.
1		0100	13	0.	*	1		0715	88	0.	*	1		1330	163	411.	*	1		1945	238	0.
1		0105	14	0.	*	1		0720	89	0.	*	1		1335	164	337.	*	1		1950	239	0.
1		0110	15	0.	*	1		0725	90	0.	*	1		1340	165	275.	*	1		1955	240	0.
		0115	16	0.	*	1		0730	91	0.	*	1		1345	166	214.	*	1		2000	241	0.
		0120	17	0.	*	1		0735	92	0.	*	1		1350	167	171.	*	1		2005	242	0.
1		0125	18	0.	*	1		0740	93	0.	*	1		1355	168	146.	*	1		2010	243	0.
1		0130	19	0.	*	1		0745	94	0.	*	1		1400	169	121.	*	1		2015	244	0.
1		0135	20	0.	*	1		0750	95	0.	*	1		1405	170	96.	*	1		2020	245	0.
1		0140	21	0.	*	1		0755	96	0.	*	1		1410	171	72.	*	1		2025	246	0.
1		0145	22	0.	*	1		0800	97	0.	*	1		1415	172	59.	*	1		2030	247	0.
1		0150	23	0.	*	1		0805	98	0.	*	1		1420	173	46.	*	1		2035	248	0.
1		0155	24	0.	*	1		0810	99	0.	*	1		1425	174	33.	*	1		2040	249	0.
1		0200	25	0.	*	1		0815	100	0.	*	1		1430	175	33.	*	1		2045	250	0.
1		0205	26	0.	*	1		0820	101	0.	*	1		1435	176	33.	*	1		2050	251	0.
1		0210	27	0.	*	1		0825	102	0.	*	1		1440	177	33.	*	1		2055	252	0.
1		0215	28	0.	*	1		0830	103	0.	*	1		1445	178	27.	*	1		2100	253	0.
1		0220	29	0.	*	1		0835	104	0.	*	1		1450	179	22.	*	1		2105	254	0.
1		0225	30	0.	*	1		0840	105	0.	*	1		1455	180	17.	*	1		2110	255	0.
1		0230	31	0.	*	1		0845	106	0.	*	1		1500	181	11.	*	1		2115	256	0.
1		0235	32	0.	*	1		0850	107	0.	*	1		1505	182	6.	*	1		2120	257	0.
1		0240	33	0.	*	1		0855	108	0.	*	1		1510	183	0.	*	1		2125	258	0.
1		0245	34	0.	*	1		0900	109	0.	*	1		1515	184	0.	*	1		2130	259	0.
1		0250	35	0.	*	1		0905	110	0.	*	1		1520	185	0.	*	1		2135	260	0.
1		0255	36	0.	*	1		0910	111	0.	*	1		1525	186	0.	*	1		2140	261	0.
1		0300	37	0.	*	1		0915	112	0.	*	1		1530	187	0.	*	1		2145	262	0.
1		0305	38	0.	*	1		0920	113	0.	*	1		1535	188	0.	*	1		2150	263	0.
1		0310	39	0.	*	1		0925	114	0.	*	1		1540	189	0.	*	1		2155	264	0.
1		0315	40	0.	*	1		0930	115	0.	*	1		1545	190	0.	*	1		2200	265	0.
1		0320	41	0.	*	1		0935	116	0.	*	1		1550	191	0.	*	1		2205	266	0.
		0325	42	0.	*	1		0940	117	0.	*	1		1555	192	0.	*	1		2210	267	0.
1		0330	43	0.	*	1		0945	118	0.	*	1		1600	193	0.	*	1		2215	268	0.
1		0335	44	0.	*	1		0950	119	0.	*	1		1605	194	0.	*	1		2220	269	0.
1		0340	45	0.	*	1		0955	120	0.	*	1		1610	195	0.	*	1		2225	270	0.
1		0345	46	0.	*	1		1000	121	0.	*	1		1615	196	0.	*	1		2230	271	0.

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    1     0350   47        0.    *    1     1005  122        0.    *    1     1620  197        0.    *    1     2235  272         0.
    1     0355   48        0.    *    1     1010  123        0.    *    1     1625  198        0.    *    1     2240  273         0.
    1     0400   49        0.    *    1     1015  124        0.    *    1     1630  199        0.    *    1     2245  274         0.
    1     0405   50        0.    *    1     1020  125        0.    *    1     1635  200        0.    *    1     2250  275         0.
          0410   51        0.    *    1     1025  126        0.    *    1     1640  201        0.    *    1     2255  276         0.
    1     0415   52        0.    *    1     1030  127        0.    *    1     1645  202        0.    *    1     2300  277         0.
    1     0420   53        0.    *    1     1035  128        0.    *    1     1650  203        0.    *    1     2305  278         0.
    1     0425   54        0.    *    1     1040  129        0.    *    1     1655  204        0.    *    1     2310  279         0.
    1     0430   55        0.    *    1     1045  130        0.    *    1     1700  205        0.    *    1     2315  280         0.
    1     0435   56        0.    *    1     1050  131        0.    *    1     1705  206        0.    *    1     2320  281         0.
    1     0440   57        0.    *    1     1055  132        0.    *    1     1710  207        0.    *    1     2325  282         0.
    1     0445   58        0.    *    1     1100  133        0.    *    1     1715  208        0.    *    1     2330  283         0.
    1     0450   59        0.    *    1     1105  134        0.    *    1     1720  209        0.    *    1     2335  284         0.
    1     0455   60        0.    *    1     1110  135        0.    *    1     1725  210        0.    *    1     2340  285         0.
    1     0500   61        0.    *    1     1115  136        0.    *    1     1730  211        0.    *    1     2345  286         0.
    1     0505   62        0.    *    1     1120  137        0.    *    1     1735  212        0.    *    1     2350  287         0.
    1     0510   63        0.    *    1     1125  138        0.    *    1     1740  213        0.    *    1     2355  288         0.
    1     0515   64        0.    *    1     1130  139        0.    *    1     1745  214        0.    *    2     0000  289         0.
    1     0520   65        0.    *    1     1135  140       17.    *    1     1750  215        0.    *    2     0005  290         0.
    1     0525   66        0.    *    1     1140  141       34.    *    1     1755  216        0.    *    2     0010  291         0.
    1     0530   67        0.    *    1     1145  142       53.    *    1     1800  217        0.    *    2     0015  292         0.
    1     0535   68        0.    *    1     1150  143      111.    *    1     1805  218        0.    *    2     0020  293         0.
    1     0540   69        0.    *    1     1155  144      183.    *    1     1810  219        0.    *    2     0025  294         0.
    1     0545   70        0.    *    1     1200  145      268.    *    1     1815  220        0.    *    2     0030  295         0.
    1     0550   71        0.    *    1     1205  146      348.    *    1     1820  221        0.    *    2     0035  296         0.
    1     0555   72        0.    *    1     1210  147      438.    *    1     1825  222        0.    *    2     0040  297         0.
    1     0600   73        0.    *    1     1215  148      542.    *    1     1830  223        0.    *    2     0045  298         0.
    1     0605   74        0.    *    1     1220  149      619.    *    1     1835  224        0.    *    2     0050  299         0.
    1     0610   75        0.    *    1     1225  150      708.    *    1     1840  225        0.    *    2     0055  300         0.
                                 *                                 *                                 *
*****************************************************************************************************************************

PEAK FLOW     TIME                           MAXIMUM AVERAGE FLOW
  (CFS)       (HR)                     6-HR        24-HR        72-HR      24.92-HR
   1106.      12.83         (CFS)      222.          55.          53.          53.
                         (INCHES)     1.120        1.120        1.120        1.120
                          (AC-FT)      110.         110.         110.         110.

                       CUMULATIVE AREA =    1.84 SQ MI




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


           ***************
           *             *
169 KK     *         1C  *
           *             *
           ***************
                             Combining C1 & C2


171 KO          OUTPUT CONTROL VARIABLES
                     IPRNT           2  PRINT CONTROL
                     IPLOT           0  PLOT CONTROL
                     QSCAL          0.  HYDROGRAPH PLOT SCALE
                     IPNCH           0  PUNCH COMPUTED HYDROGRAPH
                      IOUT          22  SAVE HYDROGRAPH ON THIS UNIT
                     ISAV1           1  FIRST ORDINATE PUNCHED OR SAVED
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ISAV2 300 LAST ORDINATE PUNCHED OR SAVED
TIMINT .083 TIME INTERVAL IN HOURS

HC HYDROGRAPH COMBINATION
ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

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

HYDROGRAPH AT STATION 1C
TRANSPOSITION AREA .0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
3631.	12.83	(CFS)	788.	219.	211.	211.
		(INCHES)	1.351	1.500	1.500	1.500
		(AC-FT)	391.	434.	434.	434.

CUMULATIVE AREA = 5.42 SQ MI

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

HYDROGRAPH AT STATION 1C
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
3528.	12.83	(CFS)	766.	213.	205.	205.
		(INCHES)	1.314	1.459	1.459	1.459
		(AC-FT)	380.	422.	422.	422.

CUMULATIVE AREA = 5.42 SQ MI

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

HYDROGRAPH AT STATION 1C
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
3356.	12.83	(CFS)	730.	203.	196.	196.
		(INCHES)	1.252	1.393	1.393	1.393
		(AC-FT)	362.	403.	403.	403.

CUMULATIVE AREA = 5.42 SQ MI

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

HYDROGRAPH AT STATION 1C
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2966.	12.83	(CFS)	649.	181.	175.	175.
		(INCHES)	1.112	1.243	1.243	1.243

(AC-FT)	322.	359.	359.	359.

CUMULATIVE AREA = 5.42 SQ MI

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

HYDROGRAPH AT STATION 1C
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2787.	12.83	(CFS)	612.	171.	165.	165.
		(INCHES)	1.049	1.176	1.176	1.176
		(AC-FT)	303.	340.	340.	340.

CUMULATIVE AREA = 5.42 SQ MI

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

HYDROGRAPH AT STATION 1C
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2370.	12.83	(CFS)	528.	149.	144.	144.
		(INCHES)	.906	1.023	1.023	1.023
		(AC-FT)	262.	296.	296.	296.

CUMULATIVE AREA = 5.42 SQ MI

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INTERPOLATED HYDROGRAPH AT 1C

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	26.	*	1		1230	151	2308.	*	1		1845	226	41.
1		0005	2	0.	*	1		0620	77	26.	*	1		1235	152	2890.	*	1		1850	227	41.
1		0010	3	0.	*	1		0625	78	26.	*	1		1240	153	3290.	*	1		1855	228	40.
1		0015	4	0.	*	1		0630	79	26.	*	1		1245	154	3485.	*	1		1900	229	39.
1		0020	5	0.	*	1		0635	80	26.	*	1		1250	155	3508.	*	1		1905	230	39.
1		0025	6	0.	*	1		0640	81	26.	*	1		1255	156	3382.	*	1		1910	231	38.
1		0030	7	0.	*	1		0645	82	27.	*	1		1300	157	3125.	*	1		1915	232	38.
1		0035	8	0.	*	1		0650	83	27.	*	1		1305	158	2797.	*	1		1920	233	37.
1		0040	9	0.	*	1		0655	84	27.	*	1		1310	159	2500.	*	1		1925	234	37.
1		0045	10	0.	*	1		0700	85	27.	*	1		1315	160	2246.	*	1		1930	235	36.
1		0050	11	0.	*	1		0705	86	28.	*	1		1320	161	2011.	*	1		1935	236	36.
1		0055	12	0.	*	1		0710	87	28.	*	1		1325	162	1777.	*	1		1940	237	35.
1		0100	13	0.	*	1		0715	88	28.	*	1		1330	163	1561.	*	1		1945	238	35.
1		0105	14	0.	*	1		0720	89	28.	*	1		1335	164	1373.	*	1		1950	239	34.
1		0110	15	1.	*	1		0725	90	29.	*	1		1340	165	1219.	*	1		1955	240	34.
1		0115	16	1.	*	1		0730	91	29.	*	1		1345	166	1070.	*	1		2000	241	33.
1		0120	17	1.	*	1		0735	92	29.	*	1		1350	167	941.	*	1		2005	242	33.
1		0125	18	2.	*	1		0740	93	30.	*	1		1355	168	837.	*	1		2010	243	33.
1		0130	19	2.	*	1		0745	94	30.	*	1		1400	169	743.	*	1		2015	244	32.

1	0135	20	3.	*	1	0750	95	30.	*	1	1405	170	662.	*	1	2020	245	32.
1	0140	21	4.	*	1	0755	96	30.	*	1	1410	171	594.	*	1	2025	246	31.
1	0145	22	4.	*	1	0800	97	31.	*	1	1415	172	537.	*	1	2030	247	31.
1	0150	23	5.	*	1	0805	98	31.	*	1	1420	173	482.	*	1	2035	248	31.
1	0155	24	6.	*	1	0810	99	31.	*	1	1425	174	429.	*	1	2040	249	31.
1	0200	25	7.	*	1	0815	100	31.	*	1	1430	175	390.	*	1	2045	250	30.
1	0205	26	8.	*	1	0820	101	32.	*	1	1435	176	356.	*	1	2050	251	30.
1	0210	27	9.	*	1	0825	102	32.	*	1	1440	177	326.	*	1	2055	252	30.
1	0215	28	10.	*	1	0830	103	32.	*	1	1445	178	297.	*	1	2100	253	29.
1	0220	29	11.	*	1	0835	104	33.	*	1	1450	179	272.	*	1	2105	254	29.
1	0225	30	11.	*	1	0840	105	33.	*	1	1455	180	252.	*	1	2110	255	29.
1	0230	31	12.	*	1	0845	106	33.	*	1	1500	181	232.	*	1	2115	256	29.
1	0235	32	13.	*	1	0850	107	34.	*	1	1505	182	212.	*	1	2120	257	28.
1	0240	33	14.	*	1	0855	108	34.	*	1	1510	183	192.	*	1	2125	258	28.
1	0245	34	14.	*	1	0900	109	35.	*	1	1515	184	180.	*	1	2130	259	28.
1	0250	35	15.	*	1	0905	110	35.	*	1	1520	185	168.	*	1	2135	260	28.
1	0255	36	15.	*	1	0910	111	36.	*	1	1525	186	157.	*	1	2140	261	27.
1	0300	37	16.	*	1	0915	112	36.	*	1	1530	187	147.	*	1	2145	262	27.
1	0305	38	16.	*	1	0920	113	37.	*	1	1535	188	137.	*	1	2150	263	27.
1	0310	39	17.	*	1	0925	114	37.	*	1	1540	189	127.	*	1	2155	264	27.
1	0315	40	17.	*	1	0930	115	38.	*	1	1545	190	118.	*	1	2200	265	26.
1	0320	41	18.	*	1	0935	116	38.	*	1	1550	191	108.	*	1	2205	266	26.
1	0325	42	18.	*	1	0940	117	39.	*	1	1555	192	100.	*	1	2210	267	26.
1	0330	43	18.	*	1	0945	118	39.	*	1	1600	193	92.	*	1	2215	268	26.
1	0335	44	19.	*	1	0950	119	40.	*	1	1605	194	85.	*	1	2220	269	25.
1	0340	45	19.	*	1	0955	120	41.	*	1	1610	195	80.	*	1	2225	270	25.
1	0345	46	19.	*	1	1000	121	41.	*	1	1615	196	76.	*	1	2230	271	25.
1	0350	47	20.	*	1	1005	122	42.	*	1	1620	197	72.	*	1	2235	272	25.
1	0355	48	20.	*	1	1010	123	43.	*	1	1625	198	70.	*	1	2240	273	25.
1	0400	49	20.	*	1	1015	124	43.	*	1	1630	199	69.	*	1	2245	274	25.
1	0405	50	21.	*	1	1020	125	44.	*	1	1635	200	68.	*	1	2250	275	24.
1	0410	51	21.	*	1	1025	126	45.	*	1	1640	201	67.	*	1	2255	276	24.
1	0415	52	21.	*	1	1030	127	46.	*	1	1645	202	65.	*	1	2300	277	24.
1	0420	53	21.	*	1	1035	128	46.	*	1	1650	203	64.	*	1	2305	278	24.
1	0425	54	22.	*	1	1040	129	47.	*	1	1655	204	63.	*	1	2310	279	24.
1	0430	55	22.	*	1	1045	130	48.	*	1	1700	205	62.	*	1	2315	280	24.
1	0435	56	22.	*	1	1050	131	49.	*	1	1705	206	60.	*	1	2320	281	24.
1	0440	57	22.	*	1	1055	132	50.	*	1	1710	207	59.	*	1	2325	282	23.
1	0445	58	22.	*	1	1100	133	51.	*	1	1715	208	58.	*	1	2330	283	23.
1	0450	59	22.	*	1	1105	134	52.	*	1	1720	209	56.	*	1	2335	284	23.
1	0455	60	23.	*	1	1110	135	53.	*	1	1725	210	55.	*	1	2340	285	23.
1	0500	61	23.	*	1	1115	136	55.	*	1	1730	211	54.	*	1	2345	286	23.
1	0505	62	23.	*	1	1120	137	56.	*	1	1735	212	52.	*	1	2350	287	23.
1	0510	63	23.	*	1	1125	138	58.	*	1	1740	213	51.	*	1	2355	288	22.
1	0515	64	23.	*	1	1130	139	60.	*	1	1745	214	50.	*	2	0000	289	22.
1	0520	65	23.	*	1	1135	140	79.	*	1	1750	215	49.	*	2	0005	290	22.
1	0525	66	24.	*	1	1140	141	100.	*	1	1755	216	48.	*	2	0010	291	22.
1	0530	67	24.	*	1	1145	142	125.	*	1	1800	217	47.	*	2	0015	292	22.
1	0535	68	24.	*	1	1150	143	191.	*	1	1805	218	47.	*	2	0020	293	21.
1	0540	69	24.	*	1	1155	144	272.	*	1	1810	219	46.	*	2	0025	294	21.
1	0545	70	24.	*	1	1200	145	371.	*	1	1815	220	45.	*	2	0030	295	21.
1	0550	71	25.	*	1	1205	146	478.	*	1	1820	221	44.	*	2	0035	296	21.
1	0555	72	25.	*	1	1210	147	627.	*	1	1825	222	44.	*	2	0040	297	21.
1	0600	73	25.	*	1	1215	148	866.	*	1	1830	223	43.	*	2	0045	298	21.
1	0605	74	25.	*	1	1220	149	1204.	*	1	1835	224	42.	*	2	0050	299	21.
1	0610	75	25.	*	1	1225	150	1700.	*	1	1840	225	42.	*	2	0055	300	20.
				*					*					*				

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PEAK FLOW TIME MAXIMUM AVERAGE FLOW

(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
3508.	12.83	(CFS)	762.	212.	204.	204.
		(INCHES)	1.306	1.452	1.452	1.452
		(AC-FT)	378.	420.	420.	420.

CUMULATIVE AREA = 5.42 SQ MI

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173 KK    *     1C-2C  *       Routing thru C3
          *            *
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174 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

HYDROGRAPH ROUTING DATA

175 RS STORAGE ROUTING

NSTPS	9	NUMBER OF SUBREACHES
ITYP	FLOW	TYPE OF INITIAL CONDITION
RSVRIC	.00	INITIAL CONDITION
X	.00	WORKING R AND D COEFFICIENT

176 RC NORMAL DEPTH CHANNEL

ANL	.046	LEFT OVERBANK N-VALUE
ANCH	.050	MAIN CHANNEL N-VALUE
ANR	.046	RIGHT OVERBANK N-VALUE
RLNTH	21270.	REACH LENGTH
SEL	.0118	ENERGY SLOPE
ELMAX	.0	MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

CROSS-SECTION DATA

		--- LEFT OVERBANK ---		+ ------ MAIN CHANNEL -------			+ --- RIGHT OVERBANK ---		
178 RY	ELEVATION	26.00	25.00	23.00	10.00	10.00	16.00	20.00	23.00
177 RX	DISTANCE	.00	60.00	125.00	140.00	172.00	232.00	292.00	352.00

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COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	15.09	34.04	56.85	83.53	114.07	148.47	186.73	229.52	277.89
OUTFLOW	.00	82.02	276.72	579.60	997.30	1538.54	2212.53	3028.56	4152.92	5482.58
ELEVATION	10.00	10.84	11.68	12.53	13.37	14.21	15.05	15.89	16.74	17.58
STORAGE	331.85	391.40	456.56	528.39	607.54	694.01	788.43	893.73	1010.45	1144.80

OUTFLOW	7017.66	8775.94	10769.69	13000.94	15522.85	18356.00	21755.34	25732.62	30154.06	35076.12
ELEVATION	18.42	19.26	20.11	20.95	21.79	22.63	23.47	24.32	25.16	26.00

WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 15523. TO 35076.
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 1C-2C
TRANSPOSITION AREA .0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
3290.	13.33	(CFS)	784.	216.	208.	208.
		(INCHES)	1.345	1.485	1.485	1.485
		(AC-FT)	389.	429.	429.	429.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
22.	13.33	7.	2.	2.	2.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
16.09	13.33	12.42	10.81	10.78	10.78

CUMULATIVE AREA = 5.42 SQ MI

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HYDROGRAPH AT STATION 1C-2C
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
3160.	13.33	(CFS)	762.	211.	203.	203.
		(INCHES)	1.307	1.445	1.445	1.445
		(AC-FT)	378.	418.	418.	418.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
21.	13.33	7.	2.	2.	2.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
15.99	13.33	12.38	10.80	10.77	10.77

CUMULATIVE AREA = 5.42 SQ MI

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HYDROGRAPH AT STATION 1C-2C
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
2983.	13.42	(CFS)	726.	201.	194.	194.

	(INCHES)	1.245	1.379	1.379	1.379
	(AC-FT)	360.	399.	399.	399.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
21.	13.42	7.	2.	2.	2.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
15.85	13.42	12.33	10.78	10.75	10.75

CUMULATIVE AREA = 5.42 SQ MI

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HYDROGRAPH AT STATION 1C-2C
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2613.	13.42	(CFS)	645.	179.	173.	173.
		(INCHES)	1.106	1.230	1.230	1.230
		(AC-FT)	320.	356.	356.	356.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
19.	13.42	6.	2.	2.	2.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
15.47	13.42	12.20	10.74	10.71	10.71

CUMULATIVE AREA = 5.42 SQ MI

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HYDROGRAPH AT STATION 1C-2C
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2435.	13.42	(CFS)	608.	169.	163.	163.
		(INCHES)	1.043	1.163	1.163	1.163
		(AC-FT)	301.	336.	336.	336.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
18.	13.42	6.	2.	2.	2.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
15.28	13.42	12.14	10.71	10.69	10.69

CUMULATIVE AREA = 5.42 SQ MI

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HYDROGRAPH AT STATION 1C-2C
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2063.	13.50	(CFS)	525.	147.	142.	142.
		(INCHES)	.900	1.011	1.011	1.011
		(AC-FT)	260.	292.	292.	292.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
16.	13.50	5.	2.	2.	2.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
14.87	13.50	11.99	10.66	10.64	10.64

CUMULATIVE AREA = 5.42 SQ MI

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INTERPOLATED HYDROGRAPH AT 1C-2C

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	20.	1		1230	151	49.	1		1845	226	70.
1		0005	2	0.	1		0620	77	20.	1		1235	152	59.	1		1850	227	68.
1		0010	3	0.	1		0625	78	20.	1		1240	153	88.	1		1855	228	67.
1		0015	4	0.	1		0630	79	21.	1		1245	154	187.	1		1900	229	66.
1		0020	5	0.	1		0635	80	21.	1		1250	155	385.	1		1905	230	64.
1		0025	6	0.	1		0640	81	21.	1		1255	156	752.	1		1910	231	63.
1		0030	7	0.	1		0645	82	21.	1		1300	157	1291.	1		1915	232	62.
1		0035	8	0.	1		0650	83	22.	1		1305	158	1923.	1		1920	233	61.
1		0040	9	0.	1		0655	84	22.	1		1310	159	2509.	1		1925	234	59.
1		0045	10	0.	1		0700	85	22.	1		1315	160	2929.	1		1930	235	58.
1		0050	11	0.	1		0705	86	22.	1		1320	161	3134.	1		1935	236	57.
1		0055	12	0.	1		0710	87	22.	1		1325	162	3119.	1		1940	237	56.
1		0100	13	0.	1		0715	88	23.	1		1330	163	3000.	1		1945	238	55.
1		0105	14	0.	1		0720	89	23.	1		1335	164	2853.	1		1950	239	54.
1		0110	15	0.	1		0725	90	23.	1		1340	165	2667.	1		1955	240	53.
1		0115	16	0.	1		0730	91	23.	1		1345	166	2460.	1		2000	241	52.
1		0120	17	0.	1		0735	92	23.	1		1350	167	2254.	1		2005	242	51.
1		0125	18	0.	1		0740	93	24.	1		1355	168	2066.	1		2010	243	50.
1		0130	19	0.	1		0745	94	24.	1		1400	169	1881.	1		2015	244	49.
1		0135	20	0.	1		0750	95	24.	1		1405	170	1703.	1		2020	245	48.
1		0140	21	0.	1		0755	96	24.	1		1410	171	1543.	1		2025	246	47.
1		0145	22	0.	1		0800	97	24.	1		1415	172	1408.	1		2030	247	46.
1		0150	23	0.	1		0805	98	25.	1		1420	173	1276.	1		2035	248	45.
1		0155	24	0.	1		0810	99	25.	1		1425	174	1154.	1		2040	249	45.
1		0200	25	0.	1		0815	100	25.	1		1430	175	1046.	1		2045	250	44.
1		0205	26	0.	1		0820	101	25.	1		1435	176	956.	1		2050	251	43.
1		0210	27	0.	1		0825	102	25.	1		1440	177	876.	1		2055	252	43.
1		0215	28	0.	1		0830	103	26.	1		1445	178	798.	1		2100	253	42.
1		0220	29	0.	1		0835	104	26.	1		1450	179	726.	1		2105	254	41.
1		0225	30	0.	1		0840	105	26.	1		1455	180	661.	1		2110	255	41.
1		0230	31	0.	1		0845	106	26.	1		1500	181	607.	1		2115	256	40.
1		0235	32	0.	1		0850	107	27.	1		1505	182	563.	1		2120	257	39.

1	0240	33	0.	*	1	0855	108	27.	*	1	1510	183	524.	*	1	2125	258	39.
1	0245	34	0.	*	1	0900	109	27.	*	1	1515	184	485.	*	1	2130	259	38.
1	0250	35	1.	*	1	0905	110	27.	*	1	1520	185	447.	*	1	2135	260	38.
1	0255	36	1.	*	1	0910	111	27.	*	1	1525	186	412.	*	1	2140	261	37.
1	0300	37	1.	*	1	0915	112	28.	*	1	1530	187	378.	*	1	2145	262	37.
1	0305	38	1.	*	1	0920	113	28.	*	1	1535	188	349.	*	1	2150	263	36.
1	0310	39	2.	*	1	0925	114	28.	*	1	1540	189	323.	*	1	2155	264	36.
1	0315	40	2.	*	1	0930	115	28.	*	1	1545	190	301.	*	1	2200	265	35.
1	0320	41	2.	*	1	0935	116	29.	*	1	1550	191	283.	*	1	2205	266	35.
1	0325	42	3.	*	1	0940	117	29.	*	1	1555	192	270.	*	1	2210	267	34.
1	0330	43	3.	*	1	0945	118	29.	*	1	1600	193	258.	*	1	2215	268	34.
1	0335	44	3.	*	1	0950	119	29.	*	1	1605	194	244.	*	1	2220	269	33.
1	0340	45	4.	*	1	0955	120	30.	*	1	1610	195	231.	*	1	2225	270	33.
1	0345	46	4.	*	1	1000	121	30.	*	1	1615	196	218.	*	1	2230	271	33.
1	0350	47	5.	*	1	1005	122	30.	*	1	1620	197	205.	*	1	2235	272	32.
1	0355	48	6.	*	1	1010	123	31.	*	1	1625	198	192.	*	1	2240	273	32.
1	0400	49	6.	*	1	1015	124	31.	*	1	1630	199	179.	*	1	2245	274	32.
1	0405	50	7.	*	1	1020	125	31.	*	1	1635	200	167.	*	1	2250	275	31.
1	0410	51	7.	*	1	1025	126	32.	*	1	1640	201	156.	*	1	2255	276	31.
1	0415	52	8.	*	1	1030	127	32.	*	1	1645	202	145.	*	1	2300	277	31.
1	0420	53	9.	*	1	1035	128	32.	*	1	1650	203	135.	*	1	2305	278	30.
1	0425	54	9.	*	1	1040	129	33.	*	1	1655	204	126.	*	1	2310	279	30.
1	0430	55	10.	*	1	1045	130	33.	*	1	1700	205	118.	*	1	2315	280	30.
1	0435	56	10.	*	1	1050	131	33.	*	1	1705	206	110.	*	1	2320	281	29.
1	0440	57	11.	*	1	1055	132	34.	*	1	1710	207	104.	*	1	2325	282	29.
1	0445	58	12.	*	1	1100	133	34.	*	1	1715	208	98.	*	1	2330	283	29.
1	0450	59	12.	*	1	1105	134	35.	*	1	1720	209	94.	*	1	2335	284	28.
1	0455	60	13.	*	1	1110	135	35.	*	1	1725	210	90.	*	1	2340	285	28.
1	0500	61	13.	*	1	1115	136	35.	*	1	1730	211	87.	*	1	2345	286	28.
1	0505	62	14.	*	1	1120	137	36.	*	1	1735	212	85.	*	1	2350	287	28.
1	0510	63	15.	*	1	1125	138	36.	*	1	1740	213	83.	*	1	2355	288	27.
1	0515	64	15.	*	1	1130	139	37.	*	1	1745	214	82.	*	2	0000	289	27.
1	0520	65	16.	*	1	1135	140	37.	*	1	1750	215	81.	*	2	0005	290	27.
1	0525	66	16.	*	1	1140	141	38.	*	1	1755	216	81.	*	2	0010	291	27.
1	0530	67	16.	*	1	1145	142	38.	*	1	1800	217	80.	*	2	0015	292	26.
1	0535	68	17.	*	1	1150	143	39.	*	1	1805	218	79.	*	2	0020	293	26.
1	0540	69	17.	*	1	1155	144	40.	*	1	1810	219	78.	*	2	0025	294	26.
1	0545	70	18.	*	1	1200	145	40.	*	1	1815	220	77.	*	2	0030	295	26.
1	0550	71	18.	*	1	1205	146	41.	*	1	1820	221	76.	*	2	0035	296	26.
1	0555	72	18.	*	1	1210	147	42.	*	1	1825	222	75.	*	2	0040	297	25.
1	0600	73	19.	*	1	1215	148	43.	*	1	1830	223	73.	*	2	0045	298	25.
1	0605	74	19.	*	1	1220	149	44.	*	1	1835	224	72.	*	2	0050	299	25.
1	0610	75	19.	*	1	1225	150	45.	*	1	1840	225	71.	*	2	0055	300	25.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
3134.	13.33	(CFS)	758.	209.	202.	202.
		(INCHES)	1.300	1.437	1.437	1.437
		(AC-FT)	376.	415.	415.	415.

CUMULATIVE AREA = 5.42 SQ MI

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          **************
          *            *
179 KK    *       C3   *
          *            *
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BASIN C3
THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
L= 4.0 Lca= 2.2 S= 63.0 Kn= .050 LAG= 75.0
PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN

184 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

SUBBASIN RUNOFF DATA

185 BA SUBBASIN CHARACTERISTICS

TAREA	3.74	SUBBASIN AREA

186 LG GREEN AND AMPT LOSS RATE

STRTL	.17	STARTING LOSS
DTH	.35	MOISTURE DEFICIT
PSIF	3.92	WETTING FRONT SUCTION
XKSAT	.35	HYDRAULIC CONDUCTIVITY
RTIMP	.00	PERCENT IMPERVIOUS AREA

185 UI INPUT UNITGRAPH, 44 ORDINATES, VOLUME = 1.00

168.0	168.0	168.0	379.0	598.0	722.0	826.0	921.0	1002.0	1104.0
1237.0	1362.0	1642.0	2029.0	2172.0	1833.0	1609.0	1447.0	1330.0	1190.0
1062.0	963.0	850.0	775.0	619.0	483.0	305.0	297.0	276.0	276.0
178.0	168.0	168.0	115.0	52.0	52.0	52.0	52.0	52.0	52.0
52.0	52.0	52.0	52.0						

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HYDROGRAPH AT STATION C3
TRANSPOSITION AREA .0 SQ MI

TOTAL RAINFALL = 4.20, TOTAL LOSS = 2.98, TOTAL EXCESS = 1.22

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2187.	13.00	(CFS)	491.	123.	118.	118.
		(INCHES)	1.221	1.221	1.221	1.221
		(AC-FT)	244.	244.	244.	244.

CUMULATIVE AREA = 3.74 SQ MI

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HYDROGRAPH AT STATION C3
TRANSPOSITION AREA 5.0 SQ MI

TOTAL RAINFALL = 4.12, TOTAL LOSS = 2.93, TOTAL EXCESS = 1.19

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2126.	13.00	(CFS)	478.	119.	115.	115.
		(INCHES)	1.187	1.187	1.187	1.187
		(AC-FT)	237.	237.	237.	237.

CUMULATIVE AREA = 3.74 SQ MI

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

HYDROGRAPH AT STATION C3
TRANSPOSITION AREA 10.0 SQ MI

TOTAL RAINFALL = 3.99, TOTAL LOSS = 2.86, TOTAL EXCESS = 1.13

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2027.	13.00	(CFS)	455.	114.	110.	110.
		(INCHES)	1.132	1.132	1.132	1.132
		(AC-FT)	226.	226.	226.	226.

CUMULATIVE AREA = 3.74 SQ MI

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

HYDROGRAPH AT STATION C3
TRANSPOSITION AREA 50.0 SQ MI

TOTAL RAINFALL = 3.70, TOTAL LOSS = 2.69, TOTAL EXCESS = 1.01

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1804.	13.00	(CFS)	405.	101.	98.	98.
		(INCHES)	1.007	1.007	1.007	1.007
		(AC-FT)	201.	201.	201.	201.

CUMULATIVE AREA = 3.74 SQ MI

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HYDROGRAPH AT STATION C3
TRANSPOSITION AREA 100.0 SQ MI

TOTAL RAINFALL = 3.57, TOTAL LOSS = 2.62, TOTAL EXCESS = .95

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1703.	13.00	(CFS)	382.	96.	92.	92.
		(INCHES)	.950	.950	.950	.950
		(AC-FT)	190.	190.	190.	190.

CUMULATIVE AREA = 3.74 SQ MI

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

HYDROGRAPH AT STATION C3
TRANSPOSITION AREA 500.0 SQ MI

TOTAL RAINFALL = 3.28, TOTAL LOSS = 2.46, TOTAL EXCESS = .82

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1475.	13.00	(CFS)	331.	83.	80.	80.
		(INCHES)	.822	.822	.822	.822
		(AC-FT)	164.	164.	164.	164.

CUMULATIVE AREA = 3.74 SQ MI

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INTERPOLATED HYDROGRAPH AT C3

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	0.	1		1230	151	1275.	1		1845	226	0.
1		0005	2	0.	1		0620	77	0.	1		1235	152	1436.	1		1850	227	0.
1		0010	3	0.	1		0625	78	0.	1		1240	153	1653.	1		1855	228	0.
1		0015	4	0.	1		0630	79	0.	1		1245	154	1884.	1		1900	229	0.
1		0020	5	0.	1		0635	80	0.	1		1250	155	2031.	1		1905	230	0.
1		0025	6	0.	1		0640	81	0.	1		1255	156	2108.	1		1910	231	0.
1		0030	7	0.	1		0645	82	0.	1		1300	157	2129.	1		1915	232	0.
1		0035	8	0.	1		0650	83	0.	1		1305	158	2070.	1		1920	233	0.
1		0040	9	0.	1		0655	84	0.	1		1310	159	1904.	1		1925	234	0.
1		0045	10	0.	1		0700	85	0.	1		1315	160	1683.	1		1930	235	0.
1		0050	11	0.	1		0705	86	0.	1		1320	161	1510.	1		1935	236	0.
1		0055	12	0.	1		0710	87	0.	1		1325	162	1359.	1		1940	237	0.
1		0100	13	0.	1		0715	88	0.	1		1330	163	1226.	1		1945	238	0.
1		0105	14	0.	1		0720	89	0.	1		1335	164	1085.	1		1950	239	0.
1		0110	15	0.	1		0725	90	0.	1		1340	165	945.	1		1955	240	0.
1		0115	16	0.	1		0730	91	0.	1		1345	166	796.	1		2000	241	0.
1		0120	17	0.	1		0735	92	0.	1		1350	167	663.	1		2005	242	0.
1		0125	18	0.	1		0740	93	0.	1		1355	168	549.	1		2010	243	0.
1		0130	19	0.	1		0745	94	0.	1		1400	169	449.	1		2015	244	0.
1		0135	20	0.	1		0750	95	0.	1		1405	170	361.	1		2020	245	0.
1		0140	21	0.	1		0755	96	0.	1		1410	171	298.	1		2025	246	0.
1		0145	22	0.	1		0800	97	0.	1		1415	172	271.	1		2030	247	0.
1		0150	23	0.	1		0805	98	0.	1		1420	173	235.	1		2035	248	0.
1		0155	24	0.	1		0810	99	0.	1		1425	174	191.	1		2040	249	0.
1		0200	25	0.	1		0815	100	0.	1		1430	175	146.	1		2045	250	0.
1		0205	26	0.	1		0820	101	0.	1		1435	176	121.	1		2050	251	0.
1		0210	27	0.	1		0825	102	0.	1		1440	177	98.	1		2055	252	0.
1		0215	28	0.	1		0830	103	0.	1		1445	178	75.	1		2100	253	0.
1		0220	29	0.	1		0835	104	0.	1		1450	179	62.	1		2105	254	0.
1		0225	30	0.	1		0840	105	0.	1		1455	180	62.	1		2110	255	0.
1		0230	31	0.	1		0845	106	0.	1		1500	181	62.	1		2115	256	0.
1		0235	32	0.	1		0850	107	0.	1		1505	182	62.	1		2120	257	0.
1		0240	33	0.	1		0855	108	0.	1		1510	183	62.	1		2125	258	0.
1		0245	34	0.	1		0900	109	0.	1		1515	184	52.	1		2130	259	0.

1	0250	35	0.	*	1	0905	110	0.	*	1	1520	185	42.	*	1	2135	260	0.
1	0255	36	0.	*	1	0910	111	0.	*	1	1525	186	31.	*	1	2140	261	0.
1	0300	37	0.	*	1	0915	112	0.	*	1	1530	187	21.	*	1	2145	262	0.
1	0305	38	0.	*	1	0920	113	0.	*	1	1535	188	11.	*	1	2150	263	0.
1	0310	39	0.	*	1	0925	114	0.	*	1	1540	189	0.	*	1	2155	264	0.
1	0315	40	0.	*	1	0930	115	0.	*	1	1545	190	0.	*	1	2200	265	0.
1	0320	41	0.	*	1	0935	116	0.	*	1	1550	191	0.	*	1	2205	266	0.
1	0325	42	0.	*	1	0940	117	0.	*	1	1555	192	0.	*	1	2210	267	0.
1	0330	43	0.	*	1	0945	118	0.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	0.	*	1	0950	119	0.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	0.	*	1	0955	120	0.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	0.	*	1	1000	121	0.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	0.	*	1	1005	122	0.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	0.	*	1	1010	123	0.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	0.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	0.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	0.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	0.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	0.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	0.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	0.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	0.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	0.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	0.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	0.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	0.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	0.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	0.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	0.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	0.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	0.	*	1	1135	140	32.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	0.	*	1	1140	141	65.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	0.	*	1	1145	142	98.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	0.	*	1	1150	143	173.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	0.	*	1	1155	144	290.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	0.	*	1	1200	145	433.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	0.	*	1	1205	146	562.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	0.	*	1	1210	147	711.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	0.	*	1	1215	148	878.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	0.	*	1	1220	149	1022.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	0.	*	1	1225	150	1148.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
2129.	13.00	(CFS)	478.	120.	115.	115.
		(INCHES)	1.189	1.189	1.189	1.189
		(AC-FT)	237.	237.	237.	237.

CUMULATIVE AREA = 3.74 SQ MI

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193 KK * 2C *
* *
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Combining C1+C2 & C3

195 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

196 HC HYDROGRAPH COMBINATION

ICOMP	2	NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 2C
TRANSPOSITION AREA .0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
4841.	13.33	(CFS)	1269.	339.	327.	327.
		(INCHES)	1.288	1.377	1.377	1.377
		(AC-FT)	629.	673.	673.	673.

CUMULATIVE AREA = 9.16 SQ MI

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HYDROGRAPH AT STATION 2C
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
4668.	13.33	(CFS)	1233.	330.	318.	318.
		(INCHES)	1.252	1.340	1.340	1.340
		(AC-FT)	612.	654.	654.	654.

CUMULATIVE AREA = 9.16 SQ MI

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HYDROGRAPH AT STATION 2C
TRANSPOSITION AREA 10.0 SQ MI

AK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
4376.	13.33	(CFS)	1175.	315.	303.	303.
		(INCHES)	1.192	1.278	1.278	1.278
		(AC-FT)	583.	624.	624.	624.

CUMULATIVE AREA = 9.16 SQ MI

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HYDROGRAPH AT STATION 2C
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
3796.	13.33	(CFS)	1043.	281.	270.	270.
		(INCHES)	1.059	1.139	1.139	1.139
		(AC-FT)	517.	556.	556.	556.

CUMULATIVE AREA = 9.16 SQ MI

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HYDROGRAPH AT STATION 2C
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
3524.	13.42	(CFS)	983.	265.	255.	255.
		(INCHES)	.998	1.076	1.076	1.076
		(AC-FT)	488.	526.	526.	526.

CUMULATIVE AREA = 9.16 SQ MI

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HYDROGRAPH AT STATION 2C
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2951.	13.42	(CFS)	848.	230.	222.	222.
		(INCHES)	.861	.934	.934	.934
		(AC-FT)	421.	456.	456.	456.

CUMULATIVE AREA = 9.16 SQ MI

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INTERPOLATED HYDROGRAPH AT 2C

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	19.	*	1		1230	151	1268.	*	1		1845	226	69.
1		0005	2	0.	*	1		0620	77	20.	*	1		1235	152	1430.	*	1		1850	227	68.
1		0010	3	0.	*	1		0625	78	20.	*	1		1240	153	1661.	*	1		1855	228	66.
1		0015	4	0.	*	1		0630	79	20.	*	1		1245	154	1968.	*	1		1900	229	65.
1		0020	5	0.	*	1		0635	80	20.	*	1		1250	155	2282.	*	1		1905	230	64.
1		0025	6	0.	*	1		0640	81	21.	*	1		1255	156	2691.	*	1		1910	231	62.
1		0030	7	0.	*	1		0645	82	21.	*	1		1300	157	3214.	*	1		1915	232	61.

1	0035	8	0.	*	1	0650	83	21.	*	1	1305	158	3756.	*	1	1920	233	60.
1	0040	9	0.	*	1	0655	84	21.	*	1	1310	159	4161.	*	1	1925	234	58.
1	0045	10	0.	*	1	0700	85	22.	*	1	1315	160	4368.	*	1	1930	235	57.
1	0050	11	0.	*	1	0705	86	22.	*	1	1320	161	4413.	*	1	1935	236	56.
1	0055	12	0.	*	1	0710	87	22.	*	1	1325	162	4305.	*	1	1940	237	55.
1	0100	13	0.	*	1	0715	88	22.	*	1	1330	163	4100.	*	1	1945	238	54.
1	0105	14	0.	*	1	0720	89	22.	*	1	1335	164	3821.	*	1	1950	239	53.
1	0110	15	0.	*	1	0725	90	23.	*	1	1340	165	3502.	*	1	1955	240	52.
1	0115	16	0.	*	1	0730	91	23.	*	1	1345	166	3156.	*	1	2000	241	51.
1	0120	17	0.	*	1	0735	92	23.	*	1	1350	167	2831.	*	1	2005	242	50.
1	0125	18	0.	*	1	0740	93	23.	*	1	1355	168	2540.	*	1	2010	243	49.
1	0130	19	0.	*	1	0745	94	23.	*	1	1400	169	2261.	*	1	2015	244	48.
1	0135	20	0.	*	1	0750	95	24.	*	1	1405	170	2004.	*	1	2020	245	47.
1	0140	21	0.	*	1	0755	96	24.	*	1	1410	171	1792.	*	1	2025	246	46.
1	0145	22	0.	*	1	0800	97	24.	*	1	1415	172	1633.	*	1	2030	247	45.
1	0150	23	0.	*	1	0805	98	24.	*	1	1420	173	1469.	*	1	2035	248	44.
1	0155	24	0.	*	1	0810	99	24.	*	1	1425	174	1307.	*	1	2040	249	44.
1	0200	25	0.	*	1	0815	100	24.	*	1	1430	175	1161.	*	1	2045	250	43.
1	0205	26	0.	*	1	0820	101	25.	*	1	1435	176	1052.	*	1	2050	251	42.
1	0210	27	0.	*	1	0825	102	25.	*	1	1440	177	950.	*	1	2055	252	42.
1	0215	28	0.	*	1	0830	103	25.	*	1	1445	178	850.	*	1	2100	253	41.
1	0220	29	0.	*	1	0835	104	25.	*	1	1450	179	768.	*	1	2105	254	40.
1	0225	30	0.	*	1	0840	105	25.	*	1	1455	180	706.	*	1	2110	255	40.
1	0230	31	0.	*	1	0845	106	26.	*	1	1500	181	653.	*	1	2115	256	39.
1	0235	32	0.	*	1	0850	107	26.	*	1	1505	182	612.	*	1	2120	257	38.
1	0240	33	0.	*	1	0855	108	26.	*	1	1510	183	573.	*	1	2125	258	38.
1	0245	34	0.	*	1	0900	109	26.	*	1	1515	184	524.	*	1	2130	259	37.
1	0250	35	1.	*	1	0905	110	27.	*	1	1520	185	477.	*	1	2135	260	37.
1	0255	36	1.	*	1	0910	111	27.	*	1	1525	186	432.	*	1	2140	261	36.
1	0300	37	1.	*	1	0915	112	27.	*	1	1530	187	390.	*	1	2145	262	36.
1	0305	38	1.	*	1	0920	113	27.	*	1	1535	188	351.	*	1	2150	263	35.
1	0310	39	1.	*	1	0925	114	27.	*	1	1540	189	316.	*	1	2155	264	35.
1	0315	40	2.	*	1	0930	115	28.	*	1	1545	190	296.	*	1	2200	265	34.
1	0320	41	2.	*	1	0935	116	28.	*	1	1550	191	279.	*	1	2205	266	34.
1	0325	42	2.	*	1	0940	117	28.	*	1	1555	192	266.	*	1	2210	267	33.
1	0330	43	3.	*	1	0945	118	28.	*	1	1600	193	254.	*	1	2215	268	33.
1	0335	44	3.	*	1	0950	119	29.	*	1	1605	194	241.	*	1	2220	269	33.
1	0340	45	4.	*	1	0955	120	29.	*	1	1610	195	227.	*	1	2225	270	32.
1	0345	46	4.	*	1	1000	121	29.	*	1	1615	196	214.	*	1	2230	271	32.
1	0350	47	5.	*	1	1005	122	30.	*	1	1620	197	200.	*	1	2235	272	31.
1	0355	48	5.	*	1	1010	123	30.	*	1	1625	198	187.	*	1	2240	273	31.
1	0400	49	6.	*	1	1015	124	30.	*	1	1630	199	175.	*	1	2245	274	31.
1	0405	50	7.	*	1	1020	125	30.	*	1	1635	200	163.	*	1	2250	275	30.
1	0410	51	7.	*	1	1025	126	31.	*	1	1640	201	152.	*	1	2255	276	30.
1	0415	52	8.	*	1	1030	127	31.	*	1	1645	202	142.	*	1	2300	277	30.
1	0420	53	8.	*	1	1035	128	31.	*	1	1650	203	132.	*	1	2305	278	30.
1	0425	54	9.	*	1	1040	129	32.	*	1	1655	204	123.	*	1	2310	279	29.
1	0430	55	10.	*	1	1045	130	32.	*	1	1700	205	115.	*	1	2315	280	29.
1	0435	56	10.	*	1	1050	131	32.	*	1	1705	206	108.	*	1	2320	281	29.
1	0440	57	11.	*	1	1055	132	33.	*	1	1710	207	102.	*	1	2325	282	28.
1	0445	58	11.	*	1	1100	133	33.	*	1	1715	208	97.	*	1	2330	283	28.
1	0450	59	12.	*	1	1105	134	34.	*	1	1720	209	92.	*	1	2335	284	28.
1	0455	60	13.	*	1	1110	135	34.	*	1	1725	210	89.	*	1	2340	285	28.
1	0500	61	13.	*	1	1115	136	35.	*	1	1730	211	86.	*	1	2345	286	27.
1	0505	62	14.	*	1	1120	137	35.	*	1	1735	212	84.	*	1	2350	287	27.
1	0510	63	14.	*	1	1125	138	35.	*	1	1740	213	83.	*	1	2355	288	27.
1	0515	64	15.	*	1	1130	139	36.	*	1	1745	214	82.	*	2	0000	289	27.
1	0520	65	15.	*	1	1135	140	67.	*	1	1750	215	81.	*	2	0005	290	26.
1	0525	66	16.	*	1	1140	141	99.	*	1	1755	216	80.	*	2	0010	291	26.
1	0530	67	16.	*	1	1145	142	132.	*	1	1800	217	80.	*	2	0015	292	26.

1	0535	68	17.	*	1	1150	143	203.	*	1	1805	218	79.	*	2	0020	293	26.
1	0540	69	17.	*	1	1155	144	316.	*	1	1810	219	78.	*	2	0025	294	25.
1	0545	70	17.	*	1	1200	145	453.	*	1	1815	220	77.	*	2	0030	295	25.
1	0550	71	18.	*	1	1205	146	578.	*	1	1820	221	75.	*	2	0035	296	25.
1	0555	72	18.	*	1	1210	147	722.	*	1	1825	222	74.	*	2	0040	297	25.
1	0600	73	18.	*	1	1215	148	882.	*	1	1830	223	73.	*	2	0045	298	25.
1	0605	74	19.	*	1	1220	149	1021.	*	1	1835	224	72.	*	2	0050	299	24.
1	0610	75	19.	*	1	1225	150	1144.	*	1	1840	225	70.	*	2	0055	300	24.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
4413.	13.33	(CFS)	1182.	317.	305.	305.
		(INCHES)	1.200	1.286	1.286	1.286
		(AC-FT)	586.	628.	628.	628.

CUMULATIVE AREA = 9.16 SQ MI

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          *            *
197 KK    *        D1  *
          *            *
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BASIN D1
THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
L= 1.9 Lca= .9 S= 65.0 Kn= .045 LAG= 36.0
PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN

202 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

SUBBASIN RUNOFF DATA

203 BA SUBBASIN CHARACTERISTICS

TAREA	2.01	SUBBASIN AREA

204 LG GREEN AND AMPT LOSS RATE

STRTL	.17	STARTING LOSS
DTH	.35	MOISTURE DEFICIT
PSIF	3.50	WETTING FRONT SUCTION
XKSAT	.28	HYDRAULIC CONDUCTIVITY
RTIMP	.00	PERCENT IMPERVIOUS AREA

203 UI INPUT UNITGRAPH, 21 ORDINATES, VOLUME = 1.00

188.0	335.0	765.0	1005.0	1223.0	1546.0	2251.0	2031.0	1593.0	1289.0

1026.0 784.0 436.0 319.0 241.0 188.0 71.0 58.0 58.0 58.0
58.0

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HYDROGRAPH AT STATION D1
TRANSPOSITION AREA .0 SQ MI

TOTAL RAINFALL = 4.20, TOTAL LOSS = 2.85, TOTAL EXCESS = 1.35

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2180.	12.33	(CFS)	291.	73.	70.	70.
		(INCHES)	1.347	1.347	1.347	1.347
		(AC-FT)	144.	144.	144.	144.

CUMULATIVE AREA = 2.01 SQ MI

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

HYDROGRAPH AT STATION D1
TRANSPOSITION AREA 5.0 SQ MI

TOTAL RAINFALL = 4.12, TOTAL LOSS = 2.81, TOTAL EXCESS = 1.31

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2122.	12.33	(CFS)	283.	71.	68.	68.
		(INCHES)	1.307	1.307	1.307	1.307
		(AC-FT)	140.	140.	140.	140.

CUMULATIVE AREA = 2.01 SQ MI

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

HYDROGRAPH AT STATION D1
TRANSPOSITION AREA 10.0 SQ MI

TOTAL RAINFALL = 3.99, TOTAL LOSS = 2.75, TOTAL EXCESS = 1.24

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2028.	12.33	(CFS)	268.	67.	65.	65.
		(INCHES)	1.241	1.241	1.241	1.241
		(AC-FT)	133.	133.	133.	133.

CUMULATIVE AREA = 2.01 SQ MI

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

HYDROGRAPH AT STATION D1
TRANSPOSITION AREA 50.0 SQ MI

TOTAL RAINFALL = 3.70, TOTAL LOSS = 2.60, TOTAL EXCESS = 1.10

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1820.	12.33	(CFS)	237.	59.	57.	57.
		(INCHES)	1.097	1.097	1.097	1.097
		(AC-FT)	118.	118.	118.	118.

CUMULATIVE AREA = 2.01 SQ MI

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

HYDROGRAPH AT STATION D1
TRANSPOSITION AREA 100.0 SQ MI

TOTAL RAINFALL = 3.57, TOTAL LOSS = 2.53, TOTAL EXCESS = 1.04

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1728.	12.33	(CFS)	225.	56.	54.	54.
		(INCHES)	1.041	1.041	1.041	1.041
		(AC-FT)	112.	112.	112.	112.

CUMULATIVE AREA = 2.01 SQ MI

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HYDROGRAPH AT STATION D1
TRANSPOSITION AREA 500.0 SQ MI

TOTAL RAINFALL = 3.28, TOTAL LOSS = 2.36, TOTAL EXCESS = .92

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1523.	12.33	(CFS)	198.	50.	48.	48.
		(INCHES)	.917	.917	.917	.917
		(AC-FT)	98.	98.	98.	98.

CUMULATIVE AREA = 2.01 SQ MI

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INTERPOLATED HYDROGRAPH AT D1

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	0.	*	1		1230	151	1948.	*	1		1845	226	0.
1		0005	2	0.	*	1		0620	77	0.	*	1		1235	152	1572.	*	1		1850	227	0.
1		0010	3	0.	*	1		0625	78	0.	*	1		1240	153	1217.	*	1		1855	228	0.
1		0015	4	0.	*	1		0630	79	0.	*	1		1245	154	934.	*	1		1900	229	0.
1		0020	5	0.	*	1		0635	80	0.	*	1		1250	155	702.	*	1		1905	230	0.
1		0025	6	0.	*	1		0640	81	0.	*	1		1255	156	498.	*	1		1910	231	0.
1		0030	7	0.	*	1		0645	82	0.	*	1		1300	157	339.	*	1		1915	232	0.
1		0035	8	0.	*	1		0650	83	0.	*	1		1305	158	247.	*	1		1920	233	0.
1		0040	9	0.	*	1		0655	84	0.	*	1		1310	159	180.	*	1		1925	234	0.
1		0045	10	0.	*	1		0700	85	0.	*	1		1315	160	132.	*	1		1930	235	0.
1		0050	11	0.	*	1		0705	86	0.	*	1		1320	161	85.	*	1		1935	236	0.

1	0055	12	0.	*	1	0710	87	0.	*	1	1325	162	63.	*	1	1940	237	0.
1	0100	13	0.	*	1	0715	88	0.	*	1	1330	163	46.	*	1	1945	238	0.
1	0105	14	0.	*	1	0720	89	0.	*	1	1335	164	31.	*	1	1950	239	0.
1	0110	15	0.	*	1	0725	90	0.	*	1	1340	165	17.	*	1	1955	240	0.
1	0115	16	0.	*	1	0730	91	0.	*	1	1345	166	3.	*	1	2000	241	0.
1	0120	17	0.	*	1	0735	92	0.	*	1	1350	167	2.	*	1	2005	242	0.
1	0125	18	0.	*	1	0740	93	0.	*	1	1355	168	2.	*	1	2010	243	0.
1	0130	19	0.	*	1	0745	94	0.	*	1	1400	169	1.	*	1	2015	244	0.
1	0135	20	0.	*	1	0750	95	0.	*	1	1405	170	1.	*	1	2020	245	0.
1	0140	21	0.	*	1	0755	96	0.	*	1	1410	171	0.	*	1	2025	246	0.
1	0145	22	0.	*	1	0800	97	0.	*	1	1415	172	0.	*	1	2030	247	0.
1	0150	23	0.	*	1	0805	98	0.	*	1	1420	173	0.	*	1	2035	248	0.
1	0155	24	0.	*	1	0810	99	0.	*	1	1425	174	0.	*	1	2040	249	0.
1	0200	25	0.	*	1	0815	100	0.	*	1	1430	175	0.	*	1	2045	250	0.
1	0205	26	0.	*	1	0820	101	0.	*	1	1435	176	0.	*	1	2050	251	0.
1	0210	27	0.	*	1	0825	102	0.	*	1	1440	177	0.	*	1	2055	252	0.
1	0215	28	0.	*	1	0830	103	0.	*	1	1445	178	0.	*	1	2100	253	0.
1	0220	29	0.	*	1	0835	104	0.	*	1	1450	179	0.	*	1	2105	254	0.
1	0225	30	0.	*	1	0840	105	0.	*	1	1455	180	0.	*	1	2110	255	0.
1	0230	31	0.	*	1	0845	106	0.	*	1	1500	181	0.	*	1	2115	256	0.
1	0235	32	0.	*	1	0850	107	0.	*	1	1505	182	0.	*	1	2120	257	0.
1	0240	33	0.	*	1	0855	108	0.	*	1	1510	183	0.	*	1	2125	258	0.
1	0245	34	0.	*	1	0900	109	0.	*	1	1515	184	0.	*	1	2130	259	0.
1	0250	35	0.	*	1	0905	110	0.	*	1	1520	185	0.	*	1	2135	260	0.
1	0255	36	0.	*	1	0910	111	0.	*	1	1525	186	0.	*	1	2140	261	0.
1	0300	37	0.	*	1	0915	112	0.	*	1	1530	187	0.	*	1	2145	262	0.
1	0305	38	0.	*	1	0920	113	0.	*	1	1535	188	0.	*	1	2150	263	0.
1	0310	39	0.	*	1	0925	114	0.	*	1	1540	189	0.	*	1	2155	264	0.
1	0315	40	0.	*	1	0930	115	0.	*	1	1545	190	0.	*	1	2200	265	0.
1	0320	41	0.	*	1	0935	116	0.	*	1	1550	191	0.	*	1	2205	266	0.
1	0325	42	0.	*	1	0940	117	0.	*	1	1555	192	0.	*	1	2210	267	0.
1	0330	43	0.	*	1	0945	118	0.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	0.	*	1	0950	119	0.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	0.	*	1	0955	120	0.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	0.	*	1	1000	121	0.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	0.	*	1	1005	122	0.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	0.	*	1	1010	123	0.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	0.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	0.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	0.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	0.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	0.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	0.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	0.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	0.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	0.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	0.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	0.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	0.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	0.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	0.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	0.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	0.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	0.	*	1	1135	140	40.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	0.	*	1	1140	141	110.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	0.	*	1	1145	142	272.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	0.	*	1	1150	143	485.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	0.	*	1	1155	144	745.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	0.	*	1	1200	145	1075.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	0.	*	1	1205	146	1514.	*	1	1820	221	0.	*	2	0035	296	0.

```
   1    0555   72        0.   *   1    1210  147    1879.   *   1    1825  222        0.   *   2    0040  297        0.
   1    0600   73        0.   *   1    1215  148    2061.   *   1    1830  223        0.   *   2    0045  298        0.
   1    0605   74        0.   *   1    1220  149    2131.   *   1    1835  224        0.   *   2    0050  299        0.
   1    0610   75        0.   *   1    1225  150    2099.   *   1    1840  225        0.   *   2    0055  300        0.
                            *                                  *                              *
**********************************************************************************************************************************************

 PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
   (CFS)       (HR)                6-HR        24-HR        72-HR      24.92-HR
    2131.     12.33       (CFS)      284.         71.          68.          68.
                          (INCHES)  1.313        1.313        1.313        1.313
                          (AC-FT)    141.         141.         141.         141.

                          CUMULATIVE AREA =    2.01 SQ MI


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


          **************
          *            *
209 KK    *        G1  *
          *            *
          **************
                     BASIN G1
                      THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
                      L=      2.3  Lca=       .8   S=   39.0  Kn= .045  LAG=  40.0
                      PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN

214 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE
                      IPNCH          0  PUNCH COMPUTED HYDROGRAPH
                       IOUT         22  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


              SUBBASIN RUNOFF DATA

215 BA          SUBBASIN CHARACTERISTICS
                      TAREA       1.62  SUBBASIN AREA

216 LG          GREEN AND AMPT LOSS RATE
                      STRTL        .16  STARTING LOSS
                        DTH        .35  MOISTURE DEFICIT
                       PSIF       3.71  WETTING FRONT SUCTION
                      XKSAT        .29  HYDRAULIC CONDUCTIVITY
                      RTIMP        .00  PERCENT IMPERVIOUS AREA

5 UI            INPUT UNITGRAPH,  23 ORDINATES,  VOLUME = 1.00
                   136.0     186.0     505.0     677.0     810.0     980.0    1261.0    1713.0    1404.0    1145.0
                   947.0     772.0     617.0     407.0     240.0     224.0     140.0     126.0      42.0      42.0
                    42.0      42.0      42.0

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

HYDROGRAPH AT STATION G1
TRANSPOSITION AREA .0 SQ MI

TOTAL RAINFALL = 4.20, TOTAL LOSS = 2.88, TOTAL EXCESS = 1.32

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1613.	12.42	(CFS)	229.	57.	55.	55.
		(INCHES)	1.316	1.316	1.316	1.316
		(AC-FT)	114.	114.	114.	114.

CUMULATIVE AREA = 1.62 SQ MI

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

HYDROGRAPH AT STATION G1
TRANSPOSITION AREA 5.0 SQ MI

TOTAL RAINFALL = 4.12, TOTAL LOSS = 2.84, TOTAL EXCESS = 1.28

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1569.	12.42	(CFS)	222.	56.	53.	53.
		(INCHES)	1.275	1.275	1.275	1.275
		(AC-FT)	110.	110.	110.	110.

CUMULATIVE AREA = 1.62 SQ MI

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

HYDROGRAPH AT STATION G1
TRANSPOSITION AREA 10.0 SQ MI

TOTAL RAINFALL = 3.99, TOTAL LOSS = 2.78, TOTAL EXCESS = 1.21

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1497.	12.42	(CFS)	211.	53.	51.	51.
		(INCHES)	1.209	1.209	1.209	1.209
		(AC-FT)	104.	104.	104.	104.

CUMULATIVE AREA = 1.62 SQ MI

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

HYDROGRAPH AT STATION G1
TRANSPOSITION AREA 50.0 SQ MI

TOTAL RAINFALL = 3.70, TOTAL LOSS = 2.62, TOTAL EXCESS = 1.08

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1343.	12.42	(CFS)	188.	47.	45.	45.
		(INCHES)	1.077	1.077	1.077	1.077

(AC-FT)	93.	93.	93.	93.

CUMULATIVE AREA = 1.62 SQ MI

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

HYDROGRAPH AT STATION G1
TRANSPOSITION AREA 100.0 SQ MI

TOTAL RAINFALL = 3.57, TOTAL LOSS = 2.54, TOTAL EXCESS = 1.03

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1274.	12.42	(CFS)	178.	45.	43.	43.
		(INCHES)	1.022	1.022	1.022	1.022
		(AC-FT)	88.	88.	88.	88.

CUMULATIVE AREA = 1.62 SQ MI

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

HYDROGRAPH AT STATION G1
TRANSPOSITION AREA 500.0 SQ MI

TOTAL RAINFALL = 3.28, TOTAL LOSS = 2.38, TOTAL EXCESS = .90

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1119.	12.42	(CFS)	156.	39.	38.	38.
		(INCHES)	.897	.897	.897	.897
		(AC-FT)	78.	78.	78.	78.

CUMULATIVE AREA = 1.62 SQ MI

****

INTERPOLATED HYDROGRAPH AT G1

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	0.	1		1230	151	1539.	1		1845	226	0.
1		0005	2	0.	1		0620	77	0.	1		1235	152	1409.	1		1850	227	0.
1		0010	3	0.	1		0625	78	0.	1		1240	153	1139.	1		1855	228	0.
1		0015	4	0.	1		0630	79	0.	1		1245	154	897.	1		1900	229	0.
1		0020	5	0.	1		0635	80	0.	1		1250	155	706.	1		1905	230	0.
1		0025	6	0.	1		0640	81	0.	1		1255	156	537.	1		1910	231	0.
1		0030	7	0.	1		0645	82	0.	1		1300	157	401.	1		1915	232	0.
1		0035	8	0.	1		0650	83	0.	1		1305	158	278.	1		1920	233	0.
1		0040	9	0.	1		0655	84	0.	1		1310	159	195.	1		1925	234	0.
1		0045	10	0.	1		0700	85	0.	1		1315	160	149.	1		1930	235	0.
1		0050	11	0.	1		0705	86	0.	1		1320	161	106.	1		1935	236	0.
1		0055	12	0.	1		0710	87	0.	1		1325	162	82.	1		1940	237	0.
1		0100	13	0.	1		0715	88	0.	1		1330	163	52.	1		1945	238	0.
1		0105	14	0.	1		0720	89	0.	1		1335	164	41.	1		1950	239	0.
1		0110	15	0.	1		0725	90	0.	1		1340	165	30.	1		1955	240	0.

1	0115	16	0.	*	1	0730	91	0.	*	1	1345	166	21.	*	1	2000	241	0.
1	0120	17	0.	*	1	0735	92	0.	*	1	1350	167	11.	*	1	2005	242	0.
1	0125	18	0.	*	1	0740	93	0.	*	1	1355	168	1.	*	1	2010	243	0.
1	0130	19	0.	*	1	0745	94	0.	*	1	1400	169	1.	*	1	2015	244	0.
1	0135	20	0.	*	1	0750	95	0.	*	1	1405	170	1.	*	1	2020	245	0.
1	0140	21	0.	*	1	0755	96	0.	*	1	1410	171	1.	*	1	2025	246	0.
1	0145	22	0.	*	1	0800	97	0.	*	1	1415	172	0.	*	1	2030	247	0.
1	0150	23	0.	*	1	0805	98	0.	*	1	1420	173	0.	*	1	2035	248	0.
1	0155	24	0.	*	1	0810	99	0.	*	1	1425	174	0.	*	1	2040	249	0.
1	0200	25	0.	*	1	0815	100	0.	*	1	1430	175	0.	*	1	2045	250	0.
1	0205	26	0.	*	1	0820	101	0.	*	1	1435	176	0.	*	1	2050	251	0.
1	0210	27	0.	*	1	0825	102	0.	*	1	1440	177	0.	*	1	2055	252	0.
1	0215	28	0.	*	1	0830	103	0.	*	1	1445	178	0.	*	1	2100	253	0.
1	0220	29	0.	*	1	0835	104	0.	*	1	1450	179	0.	*	1	2105	254	0.
1	0225	30	0.	*	1	0840	105	0.	*	1	1455	180	0.	*	1	2110	255	0.
1	0230	31	0.	*	1	0845	106	0.	*	1	1500	181	0.	*	1	2115	256	0.
1	0235	32	0.	*	1	0850	107	0.	*	1	1505	182	0.	*	1	2120	257	0.
1	0240	33	0.	*	1	0855	108	0.	*	1	1510	183	0.	*	1	2125	258	0.
1	0245	34	0.	*	1	0900	109	0.	*	1	1515	184	0.	*	1	2130	259	0.
1	0250	35	0.	*	1	0905	110	0.	*	1	1520	185	0.	*	1	2135	260	0.
1	0255	36	0.	*	1	0910	111	0.	*	1	1525	186	0.	*	1	2140	261	0.
1	0300	37	0.	*	1	0915	112	0.	*	1	1530	187	0.	*	1	2145	262	0.
1	0305	38	0.	*	1	0920	113	0.	*	1	1535	188	0.	*	1	2150	263	0.
1	0310	39	0.	*	1	0925	114	0.	*	1	1540	189	0.	*	1	2155	264	0.
1	0315	40	0.	*	1	0930	115	0.	*	1	1545	190	0.	*	1	2200	265	0.
1	0320	41	0.	*	1	0935	116	0.	*	1	1550	191	0.	*	1	2205	266	0.
1	0325	42	0.	*	1	0940	117	0.	*	1	1555	192	0.	*	1	2210	267	0.
1	0330	43	0.	*	1	0945	118	0.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	0.	*	1	0950	119	0.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	0.	*	1	0955	120	0.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	0.	*	1	1000	121	0.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	0.	*	1	1005	122	0.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	0.	*	1	1010	123	0.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	0.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	0.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	0.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	0.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	0.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	0.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	0.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	0.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	0.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	0.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	0.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	0.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	0.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	0.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	0.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	0.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	0.	*	1	1135	140	28.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	0.	*	1	1140	141	67.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	0.	*	1	1145	142	172.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	0.	*	1	1150	143	314.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	0.	*	1	1155	144	484.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	0.	*	1	1200	145	690.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	0.	*	1	1205	146	927.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	0.	*	1	1210	147	1248.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	0.	*	1	1215	148	1440.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	0.	*	1	1220	149	1543.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	0.	*	1	1225	150	1577.	*	1	1840	225	0.	*	2	0055	300	0.

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

K FLOW     TIME                                    MAXIMUM AVERAGE FLOW
(CFS)      (HR)                    6-HR        24-HR       72-HR      24.92-HR
1577.      12.42       (CFS)       223.         56.         54.         54.
                      (INCHES)    1.282       1.282       1.282       1.282
                       (AC-FT)     111.        111.        111.        111.

                      CUMULATIVE AREA =    1.62 SQ MI


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


          **************
          *            *
221 KK    *     RIVER  *        FLOW DIRECTLY INTO THE HASSAYAMPA RIVER
          *            *
          **************
                              Combining A1+A2+A3 & B1+B2+B3 & C1+C2+C3 & D1 & G1

223 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          2  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL          0.  HYDROGRAPH PLOT SCALE
                     IPNCH          0  PUNCH COMPUTED HYDROGRAPH
                      IOUT         22  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

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

224 HC          HYDROGRAPH COMBINATION
                     ICOMP          5  NUMBER OF HYDROGRAPHS TO COMBINE

                                                          ***

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

                       HYDROGRAPH AT STATION    RIVER
                      TRANSPOSITION AREA       .0 SQ MI

PEAK FLOW     TIME                                    MAXIMUM AVERAGE FLOW
  (CFS)       (HR)                    6-HR        24-HR       72-HR      24.92-HR
  9040.      13.17       (CFS)      3024.        783.        754.        754.
                      (INCHES)    1.264       1.309       1.309       1.309
                       (AC-FT)    1499.       1552.       1552.       1552.

                      CUMULATIVE AREA =   22.24 SQ MI

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

                       HYDROGRAPH AT STATION    RIVER
                      TRANSPOSITION AREA      5.0 SQ MI
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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
8694.	13.17	(CFS)	2936.	760.	732.	732.
		(INCHES)	1.227	1.271	1.271	1.271
		(AC-FT)	1456.	1508.	1508.	1508.

CUMULATIVE AREA = 22.24 SQ MI

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

HYDROGRAPH AT STATION RIVER
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
8144.	13.17	(CFS)	2793.	724.	697.	697.
		(INCHES)	1.168	1.210	1.210	1.210
		(AC-FT)	1385.	1436.	1436.	1436.

CUMULATIVE AREA = 22.24 SQ MI

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

HYDROGRAPH AT STATION RIVER
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
7114.	12.50	(CFS)	2478.	643.	620.	620.
		(INCHES)	1.036	1.076	1.076	1.076
		(AC-FT)	1229.	1276.	1276.	1276.

CUMULATIVE AREA = 22.24 SQ MI

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

HYDROGRAPH AT STATION RIVER
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
6721.	12.50	(CFS)	2337.	608.	585.	585.
		(INCHES)	.977	1.016	1.016	1.016
		(AC-FT)	1159.	1205.	1205.	1205.

CUMULATIVE AREA = 22.24 SQ MI

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

HYDROGRAPH AT STATION RIVER
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
5835.	12.50	(CFS)	2021.	527.	508.	508.
		(INCHES)	.845	.881	.881	.881

(AC-FT) 1002. 1045. 1045. 1045.

CUMULATIVE AREA = 22.24 SQ MI

****

INTERPOLATED HYDROGRAPH AT RIVER

****

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	23.	1		1230	151	7561.	1		1845	226	78.
1		0005	2	0.	1		0620	77	23.	1		1235	152	7469.	1		1850	227	77.
1		0010	3	0.	1		0625	78	24.	1		1240	153	7283.	1		1855	228	75.
1		0015	4	0.	1		0630	79	24.	1		1245	154	7230.	1		1900	229	73.
1		0020	5	0.	1		0635	80	24.	1		1250	155	7197.	1		1905	230	72.
1		0025	6	0.	1		0640	81	24.	1		1255	156	7197.	1		1910	231	70.
1		0030	7	0.	1		0645	82	25.	1		1300	157	7323.	1		1915	232	69.
1		0035	8	0.	1		0650	83	25.	1		1305	158	7508.	1		1920	233	67.
1		0040	9	0.	1		0655	84	25.	1		1310	159	7560.	1		1925	234	66.
1		0045	10	0.	1		0700	85	25.	1		1315	160	7416.	1		1930	235	64.
1		0050	11	0.	1		0705	86	26.	1		1320	161	7140.	1		1935	236	63.
1		0055	12	0.	1		0710	87	26.	1		1325	162	6808.	1		1940	237	61.
1		0100	13	0.	1		0715	88	26.	1		1330	163	6396.	1		1945	238	60.
1		0105	14	0.	1		0720	89	26.	1		1335	164	5906.	1		1950	239	59.
1		0110	15	0.	1		0725	90	27.	1		1340	165	5349.	1		1955	240	58.
1		0115	16	0.	1		0730	91	27.	1		1345	166	4762.	1		2000	241	57.
1		0120	17	0.	1		0735	92	27.	1		1350	167	4225.	1		2005	242	56.
1		0125	18	0.	1		0740	93	27.	1		1355	168	3730.	1		2010	243	54.
1		0130	19	0.	1		0745	94	27.	1		1400	169	3298.	1		2015	244	53.
1		0135	20	0.	1		0750	95	28.	1		1405	170	2915.	1		2020	245	52.
1		0140	21	0.	1		0755	96	28.	1		1410	171	2588.	1		2025	246	52.
1		0145	22	0.	1		0800	97	28.	1		1415	172	2350.	1		2030	247	51.
1		0150	23	0.	1		0805	98	28.	1		1420	173	2130.	1		2035	248	50.
1		0155	24	0.	1		0810	99	29.	1		1425	174	1911.	1		2040	249	49.
1		0200	25	0.	1		0815	100	29.	1		1430	175	1710.	1		2045	250	48.
1		0205	26	0.	1		0820	101	29.	1		1435	176	1542.	1		2050	251	47.
1		0210	27	0.	1		0825	102	29.	1		1440	177	1390.	1		2055	252	47.
1		0215	28	0.	1		0830	103	29.	1		1445	178	1248.	1		2100	253	46.
1		0220	29	0.	1		0835	104	30.	1		1450	179	1126.	1		2105	254	45.
1		0225	30	0.	1		0840	105	30.	1		1455	180	1040.	1		2110	255	44.
1		0230	31	1.	1		0845	106	30.	1		1500	181	965.	1		2115	256	44.
1		0235	32	1.	1		0850	107	30.	1		1505	182	896.	1		2120	257	43.
1		0240	33	1.	1		0855	108	31.	1		1510	183	829.	1		2125	258	42.
1		0245	34	1.	1		0900	109	31.	1		1515	184	755.	1		2130	259	42.
1		0250	35	1.	1		0905	110	31.	1		1520	185	684.	1		2135	260	41.
1		0255	36	2.	1		0910	111	32.	1		1525	186	617.	1		2140	261	41.
1		0300	37	2.	1		0915	112	32.	1		1530	187	556.	1		2145	262	40.
1		0305	38	2.	1		0920	113	32.	1		1535	188	501.	1		2150	263	40.
1		0310	39	3.	1		0925	114	32.	1		1540	189	453.	1		2155	264	39.
1		0315	40	3.	1		0930	115	33.	1		1545	190	420.	1		2200	265	39.
1		0320	41	4.	1		0935	116	33.	1		1550	191	393.	1		2205	266	38.
1		0325	42	4.	1		0940	117	33.	1		1555	192	370.	1		2210	267	38.
1		0330	43	5.	1		0945	118	34.	1		1600	193	349.	1		2215	268	37.
1		0335	44	5.	1		0950	119	34.	1		1605	194	328.	1		2220	269	37.
1		0340	45	6.	1		0955	120	34.	1		1610	195	308.	1		2225	270	36.
1		0345	46	7.	1		1000	121	35.	1		1615	196	288.	1		2230	271	36.
1		0350	47	7.	1		1005	122	35.	1		1620	197	270.	1		2235	272	36.

1	0355	48	8.	*	1	1010	123	35.	*	1	1625	198	251.	*	1	2240	273	35.
1	0400	49	9.	*	1	1015	124	36.	*	1	1630	199	234.	*	1	2245	274	35.
1	0405	50	9.	*	1	1020	125	36.	*	1	1635	200	218.	*	1	2250	275	34.
1	0410	51	10.	*	1	1025	126	36.	*	1	1640	201	202.	*	1	2255	276	34.
1	0415	52	11.	*	1	1030	127	37.	*	1	1645	202	188.	*	1	2300	277	34.
1	0420	53	11.	*	1	1035	128	37.	*	1	1650	203	174.	*	1	2305	278	33.
1	0425	54	12.	*	1	1040	129	38.	*	1	1655	204	162.	*	1	2310	279	33.
1	0430	55	13.	*	1	1045	130	38.	*	1	1700	205	151.	*	1	2315	280	33.
1	0435	56	13.	*	1	1050	131	39.	*	1	1705	206	141.	*	1	2320	281	32.
1	0440	57	14.	*	1	1055	132	39.	*	1	1710	207	133.	*	1	2325	282	32.
1	0445	58	15.	*	1	1100	133	40.	*	1	1715	208	125.	*	1	2330	283	32.
1	0450	59	15.	*	1	1105	134	40.	*	1	1720	209	119.	*	1	2335	284	31.
1	0455	60	16.	*	1	1110	135	41.	*	1	1725	210	114.	*	1	2340	285	31.
1	0500	61	16.	*	1	1115	136	41.	*	1	1730	211	109.	*	1	2345	286	31.
1	0505	62	17.	*	1	1120	137	42.	*	1	1735	212	106.	*	1	2350	287	31.
1	0510	63	18.	*	1	1125	138	42.	*	1	1740	213	103.	*	1	2355	288	30.
1	0515	64	18.	*	1	1130	139	43.	*	1	1745	214	101.	*	2	0000	289	30.
1	0520	65	19.	*	1	1135	140	190.	*	1	1750	215	99.	*	2	0005	290	30.
1	0525	66	19.	*	1	1140	141	376.	*	1	1755	216	97.	*	2	0010	291	30.
1	0530	67	20.	*	1	1145	142	762.	*	1	1800	217	95.	*	2	0015	292	29.
1	0535	68	20.	*	1	1150	143	1363.	*	1	1805	218	93.	*	2	0020	293	29.
1	0540	69	20.	*	1	1155	144	2129.	*	1	1810	219	91.	*	2	0025	294	29.
1	0545	70	21.	*	1	1200	145	3059.	*	1	1815	220	89.	*	2	0030	295	29.
1	0550	71	21.	*	1	1205	146	4088.	*	1	1820	221	87.	*	2	0035	296	28.
1	0555	72	22.	*	1	1210	147	5198.	*	1	1825	222	85.	*	2	0040	297	28.
1	0600	73	22.	*	1	1215	148	6056.	*	1	1830	223	84.	*	2	0045	298	28.
1	0605	74	22.	*	1	1220	149	6736.	*	1	1835	224	82.	*	2	0050	299	28.
1	0610	75	23.	*	1	1225	150	7276.	*	1	1840	225	80.	*	2	0055	300	28.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
7561.	12.50	(CFS)	2636.	684.	659.	659.
		(INCHES)	1.102	1.144	1.144	1.144
		(AC-FT)	1307.	1356.	1356.	1356.

CUMULATIVE AREA = 22.24 SQ MI

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          *            *
226 KK    *        E1  *
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BASIN E1

THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN

L= 1.8 Lca= .9 S= 244.0 Kn= .055 LAG= 34.0

PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN

KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH

	IOUT	22	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

SUBBASIN RUNOFF DATA

232 BA SUBBASIN CHARACTERISTICS

	TAREA	1.11	SUBBASIN AREA

233 LG GREEN AND AMPT LOSS RATE

	STRTL	.22	STARTING LOSS
	DTH	.37	MOISTURE DEFICIT
	PSIF	4.74	WETTING FRONT SUCTION
	XKSAT	.21	HYDRAULIC CONDUCTIVITY
	RTIMP	1.00	PERCENT IMPERVIOUS AREA

232 UI INPUT UNITGRAPH, 31 ORDINATES, VOLUME = 1.00

110.0	200.0	469.0	705.0	864.0	1211.0	884.0	665.0	577.0	498.0
421.0	338.0	276.0	245.0	201.0	155.0	132.0	120.0	85.0	84.0
56.0	54.0	54.0	29.0	21.0	21.0	21.0	21.0	21.0	21.0
21.0									

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HYDROGRAPH AT STATION E1
TRANSPOSITION AREA .0 SQ MI

TOTAL RAINFALL = 4.20, TOTAL LOSS = 2.79, TOTAL EXCESS = 1.41

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1094.	12.25	(CFS)	167.	42.	41.	41.
		(INCHES)	1.399	1.411	1.411	1.411
		(AC-FT)	83.	84.	84.	84.

CUMULATIVE AREA = 1.11 SQ MI

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

HYDROGRAPH AT STATION E1
TRANSPOSITION AREA 5.0 SQ MI

TOTAL RAINFALL = 4.12, TOTAL LOSS = 2.75, TOTAL EXCESS = 1.37

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1065.	12.25	(CFS)	162.	41.	39.	39.
		(INCHES)	1.358	1.370	1.370	1.370
		(AC-FT)	80.	81.	81.	81.

CUMULATIVE AREA = 1.11 SQ MI

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HYDROGRAPH AT STATION E1
TRANSPOSITION AREA 10.0 SQ MI

TOTAL RAINFALL = 3.99, TOTAL LOSS = 2.69, TOTAL EXCESS = 1.30

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1019.	12.25	(CFS)	154.	39.	37.	37.
		(INCHES)	1.290	1.302	1.302	1.302
		(AC-FT)	76.	77.	77.	77.

CUMULATIVE AREA = 1.11 SQ MI

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HYDROGRAPH AT STATION E1
TRANSPOSITION AREA 50.0 SQ MI

TOTAL RAINFALL = 3.70, TOTAL LOSS = 2.55, TOTAL EXCESS = 1.15

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
914.	12.25	(CFS)	136.	34.	33.	33.
		(INCHES)	1.138	1.149	1.149	1.149
		(AC-FT)	67.	68.	68.	68.

CUMULATIVE AREA = 1.11 SQ MI

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HYDROGRAPH AT STATION E1
TRANSPOSITION AREA 100.0 SQ MI

TOTAL RAINFALL = 3.57, TOTAL LOSS = 2.49, TOTAL EXCESS = 1.08

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
868.	12.25	(CFS)	128.	32.	31.	31.
		(INCHES)	1.072	1.083	1.083	1.083
		(AC-FT)	63.	64.	64.	64.

CUMULATIVE AREA = 1.11 SQ MI

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HYDROGRAPH AT STATION E1
TRANSPOSITION AREA 500.0 SQ MI

TOTAL RAINFALL = 3.28, TOTAL LOSS = 2.33, TOTAL EXCESS = .95

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
765.	12.25	(CFS)	112.	28.	27.	27.
		(INCHES)	.940	.950	.950	.950
		(AC-FT)	56.	56.	56.	56.

CUMULATIVE AREA = 1.11 SQ MI

INTERPOLATED HYDROGRAPH AT E1

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	1.	1		1230	151	768.	1		1845	226	1.
1		0005	2	0.	1		0620	77	1.	1		1235	152	644.	1		1850	227	0.
1		0010	3	0.	1		0625	78	1.	1		1240	153	559.	1		1855	228	0.
1		0015	4	0.	1		0630	79	1.	1		1245	154	479.	1		1900	229	0.
1		0020	5	0.	1		0635	80	1.	1		1250	155	404.	1		1905	230	0.
1		0025	6	0.	1		0640	81	1.	1		1255	156	337.	1		1910	231	0.
1		0030	7	0.	1		0645	82	1.	1		1300	157	281.	1		1915	232	0.
1		0035	8	0.	1		0650	83	1.	1		1305	158	233.	1		1920	233	0.
1		0040	9	0.	1		0655	84	1.	1		1310	159	194.	1		1925	234	0.
1		0045	10	0.	1		0700	85	1.	1		1315	160	159.	1		1930	235	0.
1		0050	11	0.	1		0705	86	1.	1		1320	161	134.	1		1935	236	0.
1		0055	12	0.	1		0710	87	1.	1		1325	162	114.	1		1940	237	0.
1		0100	13	0.	1		0715	88	1.	1		1330	163	92.	1		1945	238	0.
1		0105	14	0.	1		0720	89	1.	1		1335	164	76.	1		1950	239	0.
1		0110	15	0.	1		0725	90	1.	1		1340	165	61.	1		1955	240	0.
1		0115	16	0.	1		0730	91	1.	1		1345	166	51.	1		2000	241	0.
1		0120	17	0.	1		0735	92	1.	1		1350	167	43.	1		2005	242	0.
1		0125	18	0.	1		0740	93	1.	1		1355	168	35.	1		2010	243	0.
1		0130	19	0.	1		0745	94	1.	1		1400	169	32.	1		2015	244	0.
1		0135	20	0.	1		0750	95	1.	1		1405	170	32.	1		2020	245	0.
1		0140	21	0.	1		0755	96	1.	1		1410	171	27.	1		2025	246	0.
1		0145	22	0.	1		0800	97	1.	1		1415	172	22.	1		2030	247	0.
1		0150	23	0.	1		0805	98	1.	1		1420	173	17.	1		2035	248	0.
1		0155	24	0.	1		0810	99	1.	1		1425	174	12.	1		2040	249	0.
1		0200	25	0.	1		0815	100	1.	1		1430	175	7.	1		2045	250	0.
1		0205	26	0.	1		0820	101	1.	1		1435	176	2.	1		2050	251	0.
1		0210	27	0.	1		0825	102	1.	1		1440	177	2.	1		2055	252	0.
1		0215	28	0.	1		0830	103	1.	1		1445	178	2.	1		2100	253	0.
1		0220	29	0.	1		0835	104	1.	1		1450	179	2.	1		2105	254	0.
1		0225	30	0.	1		0840	105	1.	1		1455	180	2.	1		2110	255	0.
1		0230	31	0.	1		0845	106	1.	1		1500	181	1.	1		2115	256	0.
1		0235	32	0.	1		0850	107	1.	1		1505	182	1.	1		2120	257	0.
1		0240	33	0.	1		0855	108	1.	1		1510	183	1.	1		2125	258	0.
1		0245	34	0.	1		0900	109	1.	1		1515	184	1.	1		2130	259	0.
1		0250	35	0.	1		0905	110	1.	1		1520	185	1.	1		2135	260	0.
1		0255	36	0.	1		0910	111	1.	1		1525	186	1.	1		2140	261	0.
1		0300	37	0.	1		0915	112	1.	1		1530	187	1.	1		2145	262	0.
1		0305	38	0.	1		0920	113	1.	1		1535	188	1.	1		2150	263	0.
1		0310	39	0.	1		0925	114	1.	1		1540	189	1.	1		2155	264	0.
1		0315	40	0.	1		0930	115	1.	1		1545	190	1.	1		2200	265	0.
1		0320	41	0.	1		0935	116	1.	1		1550	191	1.	1		2205	266	0.
1		0325	42	0.	1		0940	117	1.	1		1555	192	1.	1		2210	267	0.
1		0330	43	0.	1		0945	118	1.	1		1600	193	1.	1		2215	268	0.
1		0335	44	0.	1		0950	119	1.	1		1605	194	1.	1		2220	269	0.
1		0340	45	0.	1		0955	120	1.	1		1610	195	1.	1		2225	270	0.
1		0345	46	0.	1		1000	121	1.	1		1615	196	1.	1		2230	271	0.
1		0350	47	0.	1		1005	122	1.	1		1620	197	1.	1		2235	272	0.
1		0355	48	0.	1		1010	123	1.	1		1625	198	1.	1		2240	273	0.
1		0400	49	0.	1		1015	124	1.	1		1630	199	1.	1		2245	274	0.
1		0405	50	0.	1		1020	125	1.	1		1635	200	1.	1		2250	275	0.

1	0410	51	0.	*	1	1025	126	1.	*	1	1640	201	1.	*	1	2255	276	0.
1	0415	52	0.	*	1	1030	127	1.	*	1	1645	202	1.	*	1	2300	277	0.
1	0420	53	0.	*	1	1035	128	1.	*	1	1650	203	1.	*	1	2305	278	0.
1	0425	54	0.	*	1	1040	129	1.	*	1	1655	204	1.	*	1	2310	279	0.
1	0430	55	0.	*	1	1045	130	1.	*	1	1700	205	1.	*	1	2315	280	0.
1	0435	56	0.	*	1	1050	131	1.	*	1	1705	206	1.	*	1	2320	281	0.
1	0440	57	0.	*	1	1055	132	1.	*	1	1710	207	1.	*	1	2325	282	0.
1	0445	58	0.	*	1	1100	133	1.	*	1	1715	208	1.	*	1	2330	283	0.
1	0450	59	0.	*	1	1105	134	2.	*	1	1720	209	1.	*	1	2335	284	0.
1	0455	60	0.	*	1	1110	135	2.	*	1	1725	210	1.	*	1	2340	285	0.
1	0500	61	0.	*	1	1115	136	2.	*	1	1730	211	1.	*	1	2345	286	0.
1	0505	62	0.	*	1	1120	137	2.	*	1	1735	212	1.	*	1	2350	287	0.
1	0510	63	0.	*	1	1125	138	2.	*	1	1740	213	1.	*	1	2355	288	0.
1	0515	64	0.	*	1	1130	139	2.	*	1	1745	214	1.	*	2	0000	289	0.
1	0520	65	0.	*	1	1135	140	26.	*	1	1750	215	1.	*	2	0005	290	0.
1	0525	66	0.	*	1	1140	141	69.	*	1	1755	216	1.	*	2	0010	291	0.
1	0530	67	0.	*	1	1145	142	169.	*	1	1800	217	1.	*	2	0015	292	0.
1	0535	68	0.	*	1	1150	143	321.	*	1	1805	218	1.	*	2	0020	293	0.
1	0540	69	0.	*	1	1155	144	507.	*	1	1810	219	1.	*	2	0025	294	0.
1	0545	70	0.	*	1	1200	145	769.	*	1	1815	220	1.	*	2	0030	295	0.
1	0550	71	0.	*	1	1205	146	938.	*	1	1820	221	1.	*	2	0035	296	0.
1	0555	72	0.	*	1	1210	147	1043.	*	1	1825	222	1.	*	2	0040	297	0.
1	0600	73	0.	*	1	1215	148	1072.	*	1	1830	223	1.	*	2	0045	298	0.
1	0605	74	0.	*	1	1220	149	1035.	*	1	1835	224	1.	*	2	0050	299	0.
1	0610	75	1.	*	1	1225	150	947.	*	1	1840	225	1.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
1072.	12.25	(CFS)	163.	41.	40.	40.
		(INCHES)	1.368	1.380	1.380	1.380
		(AC-FT)	81.	82.	82.	82.

CUMULATIVE AREA = 1.11 SQ MI

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239 KK    *    E1-1E   *      Routing thru E2
          *            *
          **************
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240 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

HYDROGRAPH ROUTING DATA

241 RS STORAGE ROUTING

NSTPS	5	NUMBER OF SUBREACHES
ITYP	FLOW	TYPE OF INITIAL CONDITION
RSVRIC	.00	INITIAL CONDITION
X	.00	WORKING R AND D COEFFICIENT

242 RC NORMAL DEPTH CHANNEL

ANL	.050	LEFT OVERBANK N-VALUE
ANCH	.047	MAIN CHANNEL N-VALUE
ANR	.046	RIGHT OVERBANK N-VALUE
RLNTH	11890.	REACH LENGTH
SEL	.0214	ENERGY SLOPE
ELMAX	.0	MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

CROSS-SECTION DATA

		--- LEFT OVERBANK ---	+ ------ MAIN CHANNEL -------	+ --- RIGHT OVERBANK ---				
244 RY	ELEVATION	24.00	21.00	17.00	10.00	10.00	14.00	18.00	22.00
243 RX	DISTANCE	.00	65.00	140.00	170.00	185.00	200.00	270.00	340.00

***

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	3.61	8.42	14.41	21.59	29.97	39.87	52.81	68.98	88.38
OUTFLOW	.00	45.02	155.59	333.18	584.50	916.96	1364.34	1952.03	2697.59	3629.64
ELEVATION	10.00	10.74	11.47	12.21	12.95	13.68	14.42	15.16	15.89	16.63
STORAGE	111.27	139.27	172.64	211.39	255.50	304.99	360.10	420.35	483.91	550.69
OUTFLOW	4840.92	6384.00	8246.36	10470.48	13094.77	16153.59	19668.64	23988.33	28952.26	34449.82
ELEVATION	17.37	18.11	18.84	19.58	20.32	21.05	21.79	22.53	23.26	24.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 10470. TO 34450.
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.)

1072 ok

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

HYDROGRAPH AT STATION E1-1E
TRANSPOSITION AREA .0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1002.	12.50	(CFS)	167.	42.	41.	41.
		(INCHES)	1.399	1.411	1.411	1.411
		(AC-FT)	83.	84.	84.	84.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
6.	12.50	1.	0.	0.	0.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
13.82	12.50	10.98	10.25	10.24	10.24

CUMULATIVE AREA = 1.11 SQ MI

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HYDROGRAPH AT STATION E1-1E
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
975.	12.58	(CFS)	162.	41.	39.	39.
		(INCHES)	1.358	1.370	1.370	1.370
		(AC-FT)	80.	81.	81.	81.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
6.	12.58	1.	0.	0.	0.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
13.78	12.58	10.97	10.25	10.24	10.24

CUMULATIVE AREA = 1.11 SQ MI

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HYDROGRAPH AT STATION E1-1E
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
930.	12.58	(CFS)	154.	39.	37.	37.
		(INCHES)	1.290	1.302	1.302	1.302
		(AC-FT)	76.	77.	77.	77.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
6.	12.58	1.	0.	0.	0.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
13.71	12.58	10.94	10.24	10.23	10.23

CUMULATIVE AREA = 1.11 SQ MI

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HYDROGRAPH AT STATION E1-1E
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
829.	12.58	(CFS)	136.	34.	33.	33.
		(INCHES)	1.138	1.148	1.148	1.148
		(AC-FT)	67.	68.	68.	68.

STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
6.	12.58	1.	0.	0.	0.

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

13.49	12.58		10.88	10.22	10.22	10.22

CUMULATIVE AREA = 1.11 SQ MI

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

HYDROGRAPH AT STATION E1-1E
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
786.	12.58	(CFS)	128.	32.	31.	31.
		(INCHES)	1.072	1.082	1.082	1.082
		(AC-FT)	63.	64.	64.	64.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
5.	12.58	1.	0.	0.	0.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
13.39	12.58	10.85	10.22	10.21	10.21

CUMULATIVE AREA = 1.11 SQ MI

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

HYDROGRAPH AT STATION E1-1E
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
689.	12.58	(CFS)	112.	28.	27.	27.
		(INCHES)	.940	.950	.950	.950
		(AC-FT)	56.	56.	56.	56.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
5.	12.58	1.	0.	0.	0.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
13.18	12.58	10.79	10.20	10.19	10.19

CUMULATIVE AREA = 1.11 SQ MI

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INTERPOLATED HYDROGRAPH AT E1-1E

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	0.	*	1		1230	151	978.	*	1		1845	226	1.
1		0005	2	0.	*	1		0620	77	0.	*	1		1235	152	981.	*	1		1850	227	1.
1		0010	3	0.	*	1		0625	78	0.	*	1		1240	153	921.	*	1		1855	228	1.

1	0015	4	0.	*	1	0630	79	0.	*	1	1245	154	836.	*	1	1900	229	1.
1	0020	5	0.	*	1	0635	80	0.	*	1	1250	155	737.	*	1	1905	230	1.
1	0025	6	0.	*	1	0640	81	0.	*	1	1255	156	641.	*	1	1910	231	1.
1	0030	7	0.	*	1	0645	82	0.	*	1	1300	157	560.	*	1	1915	232	1.
1	0035	8	0.	*	1	0650	83	0.	*	1	1305	158	491.	*	1	1920	233	1.
1	0040	9	0.	*	1	0655	84	0.	*	1	1310	159	424.	*	1	1925	234	1.
1	0045	10	0.	*	1	0700	85	0.	*	1	1315	160	365.	*	1	1930	235	1.
1	0050	11	0.	*	1	0705	86	0.	*	1	1320	161	317.	*	1	1935	236	1.
1	0055	12	0.	*	1	0710	87	0.	*	1	1325	162	277.	*	1	1940	237	1.
1	0100	13	0.	*	1	0715	88	1.	*	1	1330	163	239.	*	1	1945	238	1.
1	0105	14	0.	*	1	0720	89	1.	*	1	1335	164	204.	*	1	1950	239	1.
1	0110	15	0.	*	1	0725	90	1.	*	1	1340	165	175.	*	1	1955	240	1.
1	0115	16	0.	*	1	0730	91	1.	*	1	1345	166	153.	*	1	2000	241	0.
1	0120	17	0.	*	1	0735	92	1.	*	1	1350	167	136.	*	1	2005	242	0.
1	0125	18	0.	*	1	0740	93	1.	*	1	1355	168	119.	*	1	2010	243	0.
1	0130	19	0.	*	1	0745	94	1.	*	1	1400	169	103.	*	1	2015	244	0.
1	0135	20	0.	*	1	0750	95	1.	*	1	1405	170	88.	*	1	2020	245	0.
1	0140	21	0.	*	1	0755	96	1.	*	1	1410	171	75.	*	1	2025	246	0.
1	0145	22	0.	*	1	0800	97	1.	*	1	1415	172	64.	*	1	2030	247	0.
1	0150	23	0.	*	1	0805	98	1.	*	1	1420	173	56.	*	1	2035	248	0.
1	0155	24	0.	*	1	0810	99	1.	*	1	1425	174	50.	*	1	2040	249	0.
1	0200	25	0.	*	1	0815	100	1.	*	1	1430	175	46.	*	1	2045	250	0.
1	0205	26	0.	*	1	0820	101	1.	*	1	1435	176	44.	*	1	2050	251	0.
1	0210	27	0.	*	1	0825	102	1.	*	1	1440	177	41.	*	1	2055	252	0.
1	0215	28	0.	*	1	0830	103	1.	*	1	1445	178	39.	*	1	2100	253	0.
1	0220	29	0.	*	1	0835	104	1.	*	1	1450	179	36.	*	1	2105	254	0.
1	0225	30	0.	*	1	0840	105	1.	*	1	1455	180	33.	*	1	2110	255	0.
1	0230	31	0.	*	1	0845	106	1.	*	1	1500	181	29.	*	1	2115	256	0.
1	0235	32	0.	*	1	0850	107	1.	*	1	1505	182	26.	*	1	2120	257	0.
1	0240	33	0.	*	1	0855	108	1.	*	1	1510	183	23.	*	1	2125	258	0.
1	0245	34	0.	*	1	0900	109	1.	*	1	1515	184	20.	*	1	2130	259	0.
1	0250	35	0.	*	1	0905	110	1.	*	1	1520	185	17.	*	1	2135	260	0.
1	0255	36	0.	*	1	0910	111	1.	*	1	1525	186	14.	*	1	2140	261	0.
1	0300	37	0.	*	1	0915	112	1.	*	1	1530	187	12.	*	1	2145	262	0.
1	0305	38	0.	*	1	0920	113	1.	*	1	1535	188	10.	*	1	2150	263	0.
1	0310	39	0.	*	1	0925	114	1.	*	1	1540	189	8.	*	1	2155	264	0.
1	0315	40	0.	*	1	0930	115	1.	*	1	1545	190	7.	*	1	2200	265	0.
1	0320	41	0.	*	1	0935	116	1.	*	1	1550	191	6.	*	1	2205	266	0.
1	0325	42	0.	*	1	0940	117	1.	*	1	1555	192	5.	*	1	2210	267	0.
1	0330	43	0.	*	1	0945	118	1.	*	1	1600	193	4.	*	1	2215	268	0.
1	0335	44	0.	*	1	0950	119	1.	*	1	1605	194	3.	*	1	2220	269	0.
1	0340	45	0.	*	1	0955	120	1.	*	1	1610	195	3.	*	1	2225	270	0.
1	0345	46	0.	*	1	1000	121	1.	*	1	1615	196	2.	*	1	2230	271	0.
1	0350	47	0.	*	1	1005	122	1.	*	1	1620	197	2.	*	1	2235	272	0.
1	0355	48	0.	*	1	1010	123	1.	*	1	1625	198	2.	*	1	2240	273	0.
1	0400	49	0.	*	1	1015	124	1.	*	1	1630	199	2.	*	1	2245	274	0.
1	0405	50	0.	*	1	1020	125	1.	*	1	1635	200	1.	*	1	2250	275	0.
1	0410	51	0.	*	1	1025	126	1.	*	1	1640	201	1.	*	1	2255	276	0.
1	0415	52	0.	*	1	1030	127	1.	*	1	1645	202	1.	*	1	2300	277	0.
1	0420	53	0.	*	1	1035	128	1.	*	1	1650	203	1.	*	1	2305	278	0.
1	0425	54	0.	*	1	1040	129	1.	*	1	1655	204	1.	*	1	2310	279	0.
1	0430	55	0.	*	1	1045	130	1.	*	1	1700	205	1.	*	1	2315	280	0.
1	0435	56	0.	*	1	1050	131	1.	*	1	1705	206	1.	*	1	2320	281	0.
1	0440	57	0.	*	1	1055	132	1.	*	1	1710	207	1.	*	1	2325	282	0.
1	0445	58	0.	*	1	1100	133	1.	*	1	1715	208	1.	*	1	2330	283	0.
1	0450	59	0.	*	1	1105	134	1.	*	1	1720	209	1.	*	1	2335	284	0.
1	0455	60	0.	*	1	1110	135	1.	*	1	1725	210	1.	*	1	2340	285	0.
1	0500	61	0.	*	1	1115	136	1.	*	1	1730	211	1.	*	1	2345	286	0.
1	0505	62	0.	*	1	1120	137	1.	*	1	1735	212	1.	*	1	2350	287	0.
1	0510	63	0.	*	1	1125	138	1.	*	1	1740	213	1.	*	1	2355	288	0.

1	0515	64	0.	*	1	1130	139	1.	*	1	1745	214	1.	*	2	0000	289	0.
1	0520	65	0.	*	1	1135	140	1.	*	1	1750	215	1.	*	2	0005	290	0.
1	0525	66	0.	*	1	1140	141	1.	*	1	1755	216	1.	*	2	0010	291	0.
1	0530	67	0.	*	1	1145	142	2.	*	1	1800	217	1.	*	2	0015	292	0.
1	0535	68	0.	*	1	1150	143	3.	*	1	1805	218	1.	*	2	0020	293	0.
1	0540	69	0.	*	1	1155	144	6.	*	1	1810	219	1.	*	2	0025	294	0.
1	0545	70	0.	*	1	1200	145	16.	*	1	1815	220	1.	*	2	0030	295	0.
1	0550	71	0.	*	1	1205	146	60.	*	1	1820	221	1.	*	2	0035	296	0.
1	0555	72	0.	*	1	1210	147	206.	*	1	1825	222	1.	*	2	0040	297	0.
1	0600	73	0.	*	1	1215	148	445.	*	1	1830	223	1.	*	2	0045	298	0.
1	0605	74	0.	*	1	1220	149	696.	*	1	1835	224	1.	*	2	0050	299	0.
1	0610	75	0.	*	1	1225	150	883.	*	1	1840	225	1.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
981.	12.58	(CFS)	163.	41.	40.	40.
		(INCHES)	1.368	1.380	1.380	1.380
		(AC-FT)	81.	82.	82.	82.

CUMULATIVE AREA = 1.11 SQ MI

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          **************
          *            *
245 KK    *        E2  *
          *            *
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BASIN E2
THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
L= 2.3 Lca= .8 S= 113.0 Kn= .060 LAG= 44.0
PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN

250 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

SUBBASIN RUNOFF DATA

251 BA SUBBASIN CHARACTERISTICS

TAREA	1.86	SUBBASIN AREA

LG GREEN AND AMPT LOSS RATE

STRTL	.18	STARTING LOSS
DTH	.37	MOISTURE DEFICIT
PSIF	4.43	WETTING FRONT SUCTION
XKSAT	.22	HYDRAULIC CONDUCTIVITY

RTIMP .00 PERCENT IMPERVIOUS AREA

251 UI INPUT UNITGRAPH, 26 ORDINATES, VOLUME = 1.00

142.0	142.0	488.0	653.0	792.0	924.0	1110.0	1484.0	1792.0	1418.0
1185.0	997.0	829.0	689.0	492.0	295.0	241.0	202.0	142.0	110.0
44.0	44.0	44.0	44.0	44.0	44.0				

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HYDROGRAPH AT STATION E2
TRANSPOSITION AREA .0 SQ MI

TOTAL RAINFALL = 4.20, TOTAL LOSS = 2.81, TOTAL EXCESS = 1.39

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1800.	12.50	(CFS)	278.	70.	67.	67.
		(INCHES)	1.390	1.390	1.390	1.390
		(AC-FT)	138.	138.	138.	138.

CUMULATIVE AREA = 1.86 SQ MI

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

HYDROGRAPH AT STATION E2
TRANSPOSITION AREA 5.0 SQ MI

TOTAL RAINFALL = 4.12, TOTAL LOSS = 2.77, TOTAL EXCESS = 1.35

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1751.	12.50	(CFS)	270.	67.	65.	65.
		(INCHES)	1.349	1.349	1.349	1.349
		(AC-FT)	134.	134.	134.	134.

CUMULATIVE AREA = 1.86 SQ MI

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

HYDROGRAPH AT STATION E2
TRANSPOSITION AREA 10.0 SQ MI

TOTAL RAINFALL = 3.99, TOTAL LOSS = 2.71, TOTAL EXCESS = 1.28

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1672.	12.50	(CFS)	257.	64.	62.	62.
		(INCHES)	1.282	1.282	1.282	1.282
		(AC-FT)	127.	127.	127.	127.

CUMULATIVE AREA = 1.86 SQ MI

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

HYDROGRAPH AT STATION E2

TRANSPOSITION AREA 50.0 SQ MI

TOTAL RAINFALL = 3.70, TOTAL LOSS = 2.57, TOTAL EXCESS = 1.13

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1494.	12.50	(CFS)	226.	57.	55.	55.
		(INCHES)	1.132	1.132	1.132	1.132
		(AC-FT)	112.	112.	112.	112.

CUMULATIVE AREA = 1.86 SQ MI

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HYDROGRAPH AT STATION E2
TRANSPOSITION AREA 100.0 SQ MI

TOTAL RAINFALL = 3.57, TOTAL LOSS = 2.50, TOTAL EXCESS = 1.07

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1416.	12.50	(CFS)	213.	53.	51.	51.
		(INCHES)	1.066	1.066	1.066	1.066
		(AC-FT)	106.	106.	106.	106.

CUMULATIVE AREA = 1.86 SQ MI

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

HYDROGRAPH AT STATION E2
TRANSPOSITION AREA 500.0 SQ MI

TOTAL RAINFALL = 3.28, TOTAL LOSS = 2.34, TOTAL EXCESS = .94

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1248.	12.50	(CFS)	187.	47.	45.	45.
		(INCHES)	.935	.935	.935	.935
		(AC-FT)	93.	93.	93.	93.

CUMULATIVE AREA = 1.86 SQ MI

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INTERPOLATED HYDROGRAPH AT E2

****

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	0.	*	1		1230	151	1759.	*	1		1845	226	0.
1		0005	2	0.	*	1		0620	77	0.	*	1		1235	152	1709.	*	1		1850	227	0.
1		0010	3	0.	*	1		0625	78	0.	*	1		1240	153	1550.	*	1		1855	228	0.
1		0015	4	0.	*	1		0630	79	0.	*	1		1245	154	1280.	*	1		1900	229	0.
1		0020	5	0.	*	1		0635	80	0.	*	1		1250	155	1045.	*	1		1905	230	0.
1		0025	6	0.	*	1		0640	81	0.	*	1		1255	156	845.	*	1		1910	231	0.
1		0030	7	0.	*	1		0645	82	0.	*	1		1300	157	674.	*	1		1915	232	0.

1	0035	8	0.	*	1	0650	83	0.	*	1	1305	158	523.	*	1	1920	233	0.
1	0040	9	0.	*	1	0655	84	0.	*	1	1310	159	390.	*	1	1925	234	0.
1	0045	10	0.	*	1	0700	85	0.	*	1	1315	160	280.	*	1	1930	235	0.
1	0050	11	0.	*	1	0705	86	0.	*	1	1320	161	215.	*	1	1935	236	0.
1	0055	12	0.	*	1	0710	87	0.	*	1	1325	162	163.	*	1	1940	237	0.
1	0100	13	0.	*	1	0715	88	0.	*	1	1330	163	121.	*	1	1945	238	0.
1	0105	14	0.	*	1	0720	89	0.	*	1	1335	164	92.	*	1	1950	239	0.
1	0110	15	0.	*	1	0725	90	0.	*	1	1340	165	72.	*	1	1955	240	0.
1	0115	16	0.	*	1	0730	91	0.	*	1	1345	166	58.	*	1	2000	241	0.
1	0120	17	0.	*	1	0735	92	0.	*	1	1350	167	46.	*	1	2005	242	0.
1	0125	18	0.	*	1	0740	93	0.	*	1	1355	168	35.	*	1	2010	243	0.
1	0130	19	0.	*	1	0745	94	0.	*	1	1400	169	24.	*	1	2015	244	0.
1	0135	20	0.	*	1	0750	95	0.	*	1	1405	170	13.	*	1	2020	245	0.
1	0140	21	0.	*	1	0755	96	0.	*	1	1410	171	2.	*	1	2025	246	0.
1	0145	22	0.	*	1	0800	97	0.	*	1	1415	172	2.	*	1	2030	247	0.
1	0150	23	0.	*	1	0805	98	0.	*	1	1420	173	2.	*	1	2035	248	0.
1	0155	24	0.	*	1	0810	99	0.	*	1	1425	174	1.	*	1	2040	249	0.
1	0200	25	0.	*	1	0815	100	0.	*	1	1430	175	1.	*	1	2045	250	0.
1	0205	26	0.	*	1	0820	101	0.	*	1	1435	176	0.	*	1	2050	251	0.
1	0210	27	0.	*	1	0825	102	0.	*	1	1440	177	0.	*	1	2055	252	0.
1	0215	28	0.	*	1	0830	103	0.	*	1	1445	178	0.	*	1	2100	253	0.
1	0220	29	0.	*	1	0835	104	0.	*	1	1450	179	0.	*	1	2105	254	0.
1	0225	30	0.	*	1	0840	105	0.	*	1	1455	180	0.	*	1	2110	255	0.
1	0230	31	0.	*	1	0845	106	0.	*	1	1500	181	0.	*	1	2115	256	0.
1	0235	32	0.	*	1	0850	107	0.	*	1	1505	182	0.	*	1	2120	257	0.
1	0240	33	0.	*	1	0855	108	0.	*	1	1510	183	0.	*	1	2125	258	0.
1	0245	34	0.	*	1	0900	109	0.	*	1	1515	184	0.	*	1	2130	259	0.
1	0250	35	0.	*	1	0905	110	0.	*	1	1520	185	0.	*	1	2135	260	0.
1	0255	36	0.	*	1	0910	111	0.	*	1	1525	186	0.	*	1	2140	261	0.
1	0300	37	0.	*	1	0915	112	0.	*	1	1530	187	0.	*	1	2145	262	0.
1	0305	38	0.	*	1	0920	113	0.	*	1	1535	188	0.	*	1	2150	263	0.
1	0310	39	0.	*	1	0925	114	0.	*	1	1540	189	0.	*	1	2155	264	0.
1	0315	40	0.	*	1	0930	115	0.	*	1	1545	190	0.	*	1	2200	265	0.
1	0320	41	0.	*	1	0935	116	0.	*	1	1550	191	0.	*	1	2205	266	0.
1	0325	42	0.	*	1	0940	117	0.	*	1	1555	192	0.	*	1	2210	267	0.
1	0330	43	0.	*	1	0945	118	0.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	0.	*	1	0950	119	0.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	0.	*	1	0955	120	0.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	0.	*	1	1000	121	0.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	0.	*	1	1005	122	0.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	0.	*	1	1010	123	0.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	0.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	0.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	0.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	0.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	0.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	0.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	0.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	0.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	0.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	0.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	0.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	0.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	0.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	0.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	0.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	0.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	0.	*	1	1135	140	30.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	0.	*	1	1140	141	61.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	0.	*	1	1145	142	166.	*	1	1800	217	0.	*	2	0015	292	0.

1	0535	68	0.	*	1	1150	143	306.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	0.	*	1	1155	144	477.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	0.	*	1	1200	145	677.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	0.	*	1	1205	146	888.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	0.	*	1	1210	147	1180.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	0.	*	1	1215	148	1465.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	0.	*	1	1220	149	1638.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	0.	*	1	1225	150	1732.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
1759.	12.50	(CFS)	271.	68.	65.	65.
		(INCHES)	1.355	1.355	1.355	1.355
		(AC-FT)	134.	134.	134.	134.

CUMULATIVE AREA = 1.86 SQ MI

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          **************
          *            *
257 KK    *        1E  *
          *            *
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Combining E1 & E2

259 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

260 HC HYDROGRAPH COMBINATION

ICOMP	2	NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 1E
TRANSPOSITION AREA .0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
2802.	12.50	(CFS)	445.	112.	108.	108.
		(INCHES)	1.393	1.398	1.398	1.398
		(AC-FT)	221.	221.	221.	221.

CUMULATIVE AREA = 2.97 SQ MI

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HYDROGRAPH AT STATION 1E
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2722.	12.50	(CFS)	432.	108.	104.	104.
		(INCHES)	1.352	1.357	1.357	1.357
		(AC-FT)	214.	215.	215.	215.

CUMULATIVE AREA = 2.97 SQ MI

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HYDROGRAPH AT STATION 1E
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2591.	12.50	(CFS)	411.	103.	99.	99.
		(INCHES)	1.285	1.289	1.289	1.289
		(AC-FT)	204.	204.	204.	204.

CUMULATIVE AREA = 2.97 SQ MI

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

HYDROGRAPH AT STATION 1E
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2308.	12.50	(CFS)	362.	91.	88.	88.
		(INCHES)	1.134	1.138	1.138	1.138
		(AC-FT)	180.	180.	180.	180.

CUMULATIVE AREA = 2.97 SQ MI

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

HYDROGRAPH AT STATION 1E
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2185.	12.50	(CFS)	341.	86.	82.	82.
		(INCHES)	1.068	1.072	1.072	1.072
		(AC-FT)	169.	170.	170.	170.

CUMULATIVE AREA = 2.97 SQ MI

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HYDROGRAPH AT STATION 1E
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1914.	12.50	(CFS)	299.	75.	72.	72.
		(INCHES)	.937	.941	.941	.941
		(AC-FT)	148.	149.	149.	149.

CUMULATIVE AREA = 2.97 SQ MI

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INTERPOLATED HYDROGRAPH AT 1E

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	0.	*	1		1230	151	2729.	*	1		1845	226	1.
1		0005	2	0.	*	1		0620	77	0.	*	1		1235	152	2683.	*	1		1850	227	1.
1		0010	3	0.	*	1		0625	78	0.	*	1		1240	153	2464.	*	1		1855	228	1.
1		0015	4	0.	*	1		0630	79	0.	*	1		1245	154	2110.	*	1		1900	229	1.
1		0020	5	0.	*	1		0635	80	0.	*	1		1250	155	1775.	*	1		1905	230	1.
1		0025	6	0.	*	1		0640	81	0.	*	1		1255	156	1480.	*	1		1910	231	1.
1		0030	7	0.	*	1		0645	82	0.	*	1		1300	157	1230.	*	1		1915	232	1.
1		0035	8	0.	*	1		0650	83	0.	*	1		1305	158	1011.	*	1		1920	233	1.
1		0040	9	0.	*	1		0655	84	0.	*	1		1310	159	811.	*	1		1925	234	1.
1		0045	10	0.	*	1		0700	85	0.	*	1		1315	160	642.	*	1		1930	235	1.
1		0050	11	0.	*	1		0705	86	0.	*	1		1320	161	530.	*	1		1935	236	1.
1		0055	12	0.	*	1		0710	87	0.	*	1		1325	162	438.	*	1		1940	237	1.
1		0100	13	0.	*	1		0715	88	1.	*	1		1330	163	357.	*	1		1945	238	1.
1		0105	14	0.	*	1		0720	89	1.	*	1		1335	164	295.	*	1		1950	239	1.
1		0110	15	0.	*	1		0725	90	1.	*	1		1340	165	246.	*	1		1955	240	0.
1		0115	16	0.	*	1		0730	91	1.	*	1		1345	166	210.	*	1		2000	241	0.
1		0120	17	0.	*	1		0735	92	1.	*	1		1350	167	182.	*	1		2005	242	0.
1		0125	18	0.	*	1		0740	93	1.	*	1		1355	168	153.	*	1		2010	243	0.
1		0130	19	0.	*	1		0745	94	1.	*	1		1400	169	126.	*	1		2015	244	0.
1		0135	20	0.	*	1		0750	95	1.	*	1		1405	170	100.	*	1		2020	245	0.
1		0140	21	0.	*	1		0755	96	1.	*	1		1410	171	77.	*	1		2025	246	0.
1		0145	22	0.	*	1		0800	97	1.	*	1		1415	172	66.	*	1		2030	247	0.
1		0150	23	0.	*	1		0805	98	1.	*	1		1420	173	57.	*	1		2035	248	0.
1		0155	24	0.	*	1		0810	99	1.	*	1		1425	174	51.	*	1		2040	249	0.
1		0200	25	0.	*	1		0815	100	1.	*	1		1430	175	47.	*	1		2045	250	0.
1		0205	26	0.	*	1		0820	101	1.	*	1		1435	176	44.	*	1		2050	251	0.
1		0210	27	0.	*	1		0825	102	1.	*	1		1440	177	41.	*	1		2055	252	0.
1		0215	28	0.	*	1		0830	103	1.	*	1		1445	178	39.	*	1		2100	253	0.
1		0220	29	0.	*	1		0835	104	1.	*	1		1450	179	36.	*	1		2105	254	0.
1		0225	30	0.	*	1		0840	105	1.	*	1		1455	180	33.	*	1		2110	255	0.
1		0230	31	0.	*	1		0845	106	1.	*	1		1500	181	29.	*	1		2115	256	0.
1		0235	32	0.	*	1		0850	107	1.	*	1		1505	182	26.	*	1		2120	257	0.
1		0240	33	0.	*	1		0855	108	1.	*	1		1510	183	23.	*	1		2125	258	0.
1		0245	34	0.	*	1		0900	109	1.	*	1		1515	184	20.	*	1		2130	259	0.
1		0250	35	0.	*	1		0905	110	1.	*	1		1520	185	17.	*	1		2135	260	0.
1		0255	36	0.	*	1		0910	111	1.	*	1		1525	186	14.	*	1		2140	261	0.
1		0300	37	0.	*	1		0915	112	1.	*	1		1530	187	12.	*	1		2145	262	0.
1		0305	38	0.	*	1		0920	113	1.	*	1		1535	188	10.	*	1		2150	263	0.
1		0310	39	0.	*	1		0925	114	1.	*	1		1540	189	8.	*	1		2155	264	0.
1		0315	40	0.	*	1		0930	115	1.	*	1		1545	190	7.	*	1		2200	265	0.

1	0320	41	0.	*	1	0935	116	1.	*	1	1550	191	6.	*	1	2205	266	0.
1	0325	42	0.	*	1	0940	117	1.	*	1	1555	192	5.	*	1	2210	267	0.
1	0330	43	0.	*	1	0945	118	1.	*	1	1600	193	4.	*	1	2215	268	0.
1	0335	44	0.	*	1	0950	119	1.	*	1	1605	194	3.	*	1	2220	269	0.
1	0340	45	0.	*	1	0955	120	1.	*	1	1610	195	3.	*	1	2225	270	0.
1	0345	46	0.	*	1	1000	121	1.	*	1	1615	196	2.	*	1	2230	271	0.
1	0350	47	0.	*	1	1005	122	1.	*	1	1620	197	2.	*	1	2235	272	0.
1	0355	48	0.	*	1	1010	123	1.	*	1	1625	198	2.	*	1	2240	273	0.
1	0400	49	0.	*	1	1015	124	1.	*	1	1630	199	1.	*	1	2245	274	0.
1	0405	50	0.	*	1	1020	125	1.	*	1	1635	200	1.	*	1	2250	275	0.
1	0410	51	0.	*	1	1025	126	1.	*	1	1640	201	1.	*	1	2255	276	0.
1	0415	52	0.	*	1	1030	127	1.	*	1	1645	202	1.	*	1	2300	277	0.
1	0420	53	0.	*	1	1035	128	1.	*	1	1650	203	1.	*	1	2305	278	0.
1	0425	54	0.	*	1	1040	129	1.	*	1	1655	204	1.	*	1	2310	279	0.
1	0430	55	0.	*	1	1045	130	1.	*	1	1700	205	1.	*	1	2315	280	0.
1	0435	56	0.	*	1	1050	131	1.	*	1	1705	206	1.	*	1	2320	281	0.
1	0440	57	0.	*	1	1055	132	1.	*	1	1710	207	1.	*	1	2325	282	0.
1	0445	58	0.	*	1	1100	133	1.	*	1	1715	208	1.	*	1	2330	283	0.
1	0450	59	0.	*	1	1105	134	1.	*	1	1720	209	1.	*	1	2335	284	0.
1	0455	60	0.	*	1	1110	135	1.	*	1	1725	210	1.	*	1	2340	285	0.
1	0500	61	0.	*	1	1115	136	1.	*	1	1730	211	1.	*	1	2345	286	0.
1	0505	62	0.	*	1	1120	137	1.	*	1	1735	212	1.	*	1	2350	287	0.
1	0510	63	0.	*	1	1125	138	1.	*	1	1740	213	1.	*	1	2355	288	0.
1	0515	64	0.	*	1	1130	139	1.	*	1	1745	214	1.	*	2	0000	289	0.
1	0520	65	0.	*	1	1135	140	32.	*	1	1750	215	1.	*	2	0005	290	0.
1	0525	66	0.	*	1	1140	141	62.	*	1	1755	216	1.	*	2	0010	291	0.
1	0530	67	0.	*	1	1145	142	167.	*	1	1800	217	1.	*	2	0015	292	0.
1	0535	68	0.	*	1	1150	143	308.	*	1	1805	218	1.	*	2	0020	293	0.
1	0540	69	0.	*	1	1155	144	482.	*	1	1810	219	1.	*	2	0025	294	0.
1	0545	70	0.	*	1	1200	145	692.	*	1	1815	220	1.	*	2	0030	295	0.
1	0550	71	0.	*	1	1205	146	945.	*	1	1820	221	1.	*	2	0035	296	0.
1	0555	72	0.	*	1	1210	147	1382.	*	1	1825	222	1.	*	2	0040	297	0.
1	0600	73	0.	*	1	1215	148	1904.	*	1	1830	223	1.	*	2	0045	298	0.
1	0605	74	0.	*	1	1220	149	2327.	*	1	1835	224	1.	*	2	0050	299	0.
1	0610	75	0.	*	1	1225	150	2607.	*	1	1840	225	1.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2729.	12.50	(CFS)	433.	109.	105.	105.
		(INCHES)	1.356	1.360	1.360	1.360
		(AC-FT)	215.	215.	215.	215.

CUMULATIVE AREA = 2.97 SQ MI

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          *            *
1 KK      *   DIV-1E   *      DIVERSION AT PARKWAY
          *            *
          **************

     DT        DIVERSION
                    ISTAD       1E-D  DIVERSION HYDROGRAPH IDENTIFICATION
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DI	INFLOW	4035.00	4057.00	4094.00	4149.00	4228.00	4377.00
DQ	DIVERTED FLOW	.00	6.00	27.00	67.00	132.00	267.00

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DIVERSION HYDROGRAPH 1E-D
TRANSPOSITION AREA .0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 2.97 SQ MI

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HYDROGRAPH AT STATION DIV-1E
TRANSPOSITION AREA .0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2802.	12.50	(CFS)	445.	112.	108.	108.
		(INCHES)	1.393	1.398	1.398	1.398
		(AC-FT)	221.	221.	221.	221.

CUMULATIVE AREA = 2.97 SQ MI

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DIVERSION HYDROGRAPH 1E-D
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 2.97 SQ MI

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HYDROGRAPH AT STATION DIV-1E
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2722.	12.50	(CFS)	432.	108.	104.	104.
		(INCHES)	1.352	1.357	1.357	1.357
		(AC-FT)	214.	215.	215.	215.

CUMULATIVE AREA = 2.97 SQ MI

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DIVERSION HYDROGRAPH 1E-D
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 2.97 SQ MI

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

HYDROGRAPH AT STATION DIV-1E
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2591.	12.50	(CFS)	411.	103.	99.	99.
		(INCHES)	1.285	1.289	1.289	1.289
		(AC-FT)	204.	204.	204.	204.

CUMULATIVE AREA = 2.97 SQ MI

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

DIVERSION HYDROGRAPH 1E-D
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 2.97 SQ MI

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

HYDROGRAPH AT STATION DIV-1E
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2308.	12.50	(CFS)	362.	91.	88.	88.
		(INCHES)	1.134	1.138	1.138	1.138
		(AC-FT)	180.	180.	180.	180.

CUMULATIVE AREA = 2.97 SQ MI

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DIVERSION HYDROGRAPH 1E-D
TRANSPOSITION AREA 100.0 SQ MI

K FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 2.97 SQ MI

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

HYDROGRAPH AT STATION DIV-1E
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2185.	12.50	(CFS)	341.	86.	82.	82.
		(INCHES)	1.068	1.072	1.072	1.072
		(AC-FT)	169.	170.	170.	170.

CUMULATIVE AREA = 2.97 SQ MI

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DIVERSION HYDROGRAPH 1E-D
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 2.97 SQ MI

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HYDROGRAPH AT STATION DIV-1E
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1914.	12.50	(CFS)	299.	75.	72.	72.
		(INCHES)	.937	.941	.941	.941
		(AC-FT)	148.	149.	149.	149.

CUMULATIVE AREA = 2.97 SQ MI

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INTERPOLATED DIVERSION HYDROGRAPH AT 1E-D

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

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

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 2.97 SQ MI

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INTERPOLATED HYDROGRAPH AT DIV-1E

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	0.	*	1		1230	151	2729.	*	1		1845	226	1.
1		0005	2	0.	*	1		0620	77	0.	*	1		1235	152	2683.	*	1		1850	227	1.
1		0010	3	0.	*	1		0625	78	0.	*	1		1240	153	2464.	*	1		1855	228	1.
1		0015	4	0.	*	1		0630	79	0.	*	1		1245	154	2110.	*	1		1900	229	1.
1		0020	5	0.	*	1		0635	80	0.	*	1		1250	155	1775.	*	1		1905	230	1.
1		0025	6	0.	*	1		0640	81	0.	*	1		1255	156	1480.	*	1		1910	231	1.
1		0030	7	0.	*	1		0645	82	0.	*	1		1300	157	1230.	*	1		1915	232	1.
1		0035	8	0.	*	1		0650	83	0.	*	1		1305	158	1011.	*	1		1920	233	1.
1		0040	9	0.	*	1		0655	84	0.	*	1		1310	159	811.	*	1		1925	234	1.
1		0045	10	0.	*	1		0700	85	0.	*	1		1315	160	642.	*	1		1930	235	1.
1		0050	11	0.	*	1		0705	86	0.	*	1		1320	161	530.	*	1		1935	236	1.
1		0055	12	0.	*	1		0710	87	0.	*	1		1325	162	438.	*	1		1940	237	1.
1		0100	13	0.	*	1		0715	88	1.	*	1		1330	163	357.	*	1		1945	238	1.
1		0105	14	0.	*	1		0720	89	1.	*	1		1335	164	295.	*	1		1950	239	1.
1		0110	15	0.	*	1		0725	90	1.	*	1		1340	165	246.	*	1		1955	240	0.
1		0115	16	0.	*	1		0730	91	1.	*	1		1345	166	210.	*	1		2000	241	0.
1		0120	17	0.	*	1		0735	92	1.	*	1		1350	167	182.	*	1		2005	242	0.
1		0125	18	0.	*	1		0740	93	1.	*	1		1355	168	153.	*	1		2010	243	0.
1		0130	19	0.	*	1		0745	94	1.	*	1		1400	169	126.	*	1		2015	244	0.
1		0135	20	0.	*	1		0750	95	1.	*	1		1405	170	100.	*	1		2020	245	0.
1		0140	21	0.	*	1		0755	96	1.	*	1		1410	171	77.	*	1		2025	246	0.
1		0145	22	0.	*	1		0800	97	1.	*	1		1415	172	66.	*	1		2030	247	0.

1	0150	23	0.	*	1	0805	98	1.	*	1	1420	173	57.	*	1	2035	248	0.
1	0155	24	0.	*	1	0810	99	1.	*	1	1425	174	51.	*	1	2040	249	0.
1	0200	25	0.	*	1	0815	100	1.	*	1	1430	175	47.	*	1	2045	250	0.
1	0205	26	0.	*	1	0820	101	1.	*	1	1435	176	44.	*	1	2050	251	0.
1	0210	27	0.	*	1	0825	102	1.	*	1	1440	177	41.	*	1	2055	252	0.
1	0215	28	0.	*	1	0830	103	1.	*	1	1445	178	39.	*	1	2100	253	0.
1	0220	29	0.	*	1	0835	104	1.	*	1	1450	179	36.	*	1	2105	254	0.
1	0225	30	0.	*	1	0840	105	1.	*	1	1455	180	33.	*	1	2110	255	0.
1	0230	31	0.	*	1	0845	106	1.	*	1	1500	181	29.	*	1	2115	256	0.
1	0235	32	0.	*	1	0850	107	1.	*	1	1505	182	26.	*	1	2120	257	0.
1	0240	33	0.	*	1	0855	108	1.	*	1	1510	183	23.	*	1	2125	258	0.
1	0245	34	0.	*	1	0900	109	1.	*	1	1515	184	20.	*	1	2130	259	0.
1	0250	35	0.	*	1	0905	110	1.	*	1	1520	185	17.	*	1	2135	260	0.
1	0255	36	0.	*	1	0910	111	1.	*	1	1525	186	14.	*	1	2140	261	0.
1	0300	37	0.	*	1	0915	112	1.	*	1	1530	187	12.	*	1	2145	262	0.
1	0305	38	0.	*	1	0920	113	1.	*	1	1535	188	10.	*	1	2150	263	0.
1	0310	39	0.	*	1	0925	114	1.	*	1	1540	189	8.	*	1	2155	264	0.
1	0315	40	0.	*	1	0930	115	1.	*	1	1545	190	7.	*	1	2200	265	0.
1	0320	41	0.	*	1	0935	116	1.	*	1	1550	191	6.	*	1	2205	266	0.
1	0325	42	0.	*	1	0940	117	1.	*	1	1555	192	5.	*	1	2210	267	0.
1	0330	43	0.	*	1	0945	118	1.	*	1	1600	193	4.	*	1	2215	268	0.
1	0335	44	0.	*	1	0950	119	1.	*	1	1605	194	3.	*	1	2220	269	0.
1	0340	45	0.	*	1	0955	120	1.	*	1	1610	195	3.	*	1	2225	270	0.
1	0345	46	0.	*	1	1000	121	1.	*	1	1615	196	2.	*	1	2230	271	0.
1	0350	47	0.	*	1	1005	122	1.	*	1	1620	197	2.	*	1	2235	272	0.
1	0355	48	0.	*	1	1010	123	1.	*	1	1625	198	2.	*	1	2240	273	0.
1	0400	49	0.	*	1	1015	124	1.	*	1	1630	199	1.	*	1	2245	274	0.
1	0405	50	0.	*	1	1020	125	1.	*	1	1635	200	1.	*	1	2250	275	0.
1	0410	51	0.	*	1	1025	126	1.	*	1	1640	201	1.	*	1	2255	276	0.
1	0415	52	0.	*	1	1030	127	1.	*	1	1645	202	1.	*	1	2300	277	0.
1	0420	53	0.	*	1	1035	128	1.	*	1	1650	203	1.	*	1	2305	278	0.
1	0425	54	0.	*	1	1040	129	1.	*	1	1655	204	1.	*	1	2310	279	0.
1	0430	55	0.	*	1	1045	130	1.	*	1	1700	205	1.	*	1	2315	280	0.
1	0435	56	0.	*	1	1050	131	1.	*	1	1705	206	1.	*	1	2320	281	0.
1	0440	57	0.	*	1	1055	132	1.	*	1	1710	207	1.	*	1	2325	282	0.
1	0445	58	0.	*	1	1100	133	1.	*	1	1715	208	1.	*	1	2330	283	0.
1	0450	59	0.	*	1	1105	134	1.	*	1	1720	209	1.	*	1	2335	284	0.
1	0455	60	0.	*	1	1110	135	1.	*	1	1725	210	1.	*	1	2340	285	0.
1	0500	61	0.	*	1	1115	136	1.	*	1	1730	211	1.	*	1	2345	286	0.
1	0505	62	0.	*	1	1120	137	1.	*	1	1735	212	1.	*	1	2350	287	0.
1	0510	63	0.	*	1	1125	138	1.	*	1	1740	213	1.	*	1	2355	288	0.
1	0515	64	0.	*	1	1130	139	1.	*	1	1745	214	1.	*	2	0000	289	0.
1	0520	65	0.	*	1	1135	140	32.	*	1	1750	215	1.	*	2	0005	290	0.
1	0525	66	0.	*	1	1140	141	62.	*	1	1755	216	1.	*	2	0010	291	0.
1	0530	67	0.	*	1	1145	142	167.	*	1	1800	217	1.	*	2	0015	292	0.
1	0535	68	0.	*	1	1150	143	308.	*	1	1805	218	1.	*	2	0020	293	0.
1	0540	69	0.	*	1	1155	144	482.	*	1	1810	219	1.	*	2	0025	294	0.
1	0545	70	0.	*	1	1200	145	692.	*	1	1815	220	1.	*	2	0030	295	0.
1	0550	71	0.	*	1	1205	146	945.	*	1	1820	221	1.	*	2	0035	296	0.
1	0555	72	0.	*	1	1210	147	1382.	*	1	1825	222	1.	*	2	0040	297	0.
1	0600	73	0.	*	1	1215	148	1904.	*	1	1830	223	1.	*	2	0045	298	0.
1	0605	74	0.	*	1	1220	149	2327.	*	1	1835	224	1.	*	2	0050	299	0.
1	0610	75	0.	*	1	1225	150	2607.	*	1	1840	225	1.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
2729.	12.50	(CFS)	433.	109.	105.	105.
		(INCHES)	1.356	1.360	1.360	1.360

(AC-FT) 215. 215. 215. 215.

CUMULATIVE AREA = 2.97 SQ MI

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*            *
*     1E-2E  *       Routing thru E3
*            *
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265 KK

266 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

HYDROGRAPH ROUTING DATA

267 RS STORAGE ROUTING

NSTPS	10	NUMBER OF SUBREACHES
ITYP	FLOW	TYPE OF INITIAL CONDITION
RSVRIC	.00	INITIAL CONDITION
X	.00	WORKING R AND D COEFFICIENT

268 RC NORMAL DEPTH CHANNEL

ANL	.052	LEFT OVERBANK N-VALUE
ANCH	.046	MAIN CHANNEL N-VALUE
ANR	.052	RIGHT OVERBANK N-VALUE
RLNTH	20000.	REACH LENGTH
SEL	.0100	ENERGY SLOPE
ELMAX	.0	MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

CROSS-SECTION DATA

		--- LEFT OVERBANK ---		+ ------ MAIN CHANNEL -------			+ --- RIGHT OVERBANK ---		
270 RY	ELEVATION	20.00	17.00	14.00	10.00	10.00	15.00	18.00	20.00
269 RX	DISTANCE	.00	80.00	120.00	160.00	170.00	210.00	250.00	300.00

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COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	3.56	9.41	17.55	27.98	40.70	55.71	73.00	92.62	114.88
OUTFLOW	.00	13.57	52.61	123.03	231.03	382.44	582.74	837.14	1167.85	1588.25
ELEVATION	10.00	10.53	11.05	11.58	12.11	12.63	13.16	13.68	14.21	14.74
STORAGE	139.94	168.30	200.05	235.20	274.15	318.11	367.64	423.71	486.35	555.56
OUTFLOW	2107.69	2738.13	3460.23	4280.83	5191.45	6219.26	7366.25	8663.81	10127.95	11770.43
ELEVATION	15.26	15.79	16.32	16.84	17.37	17.89	18.42	18.95	19.47	20.00

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HYDROGRAPH AT STATION 1E-2E
TRANSPOSITION AREA .0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2426.	13.08	(CFS)	443.	112.	107.	107.
		(INCHES)	1.388	1.397	1.397	1.397
		(AC-FT)	220.	221.	221.	221.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
15.	13.08	4.	1.	1.	1.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
15.53	13.08	12.01	10.53	10.51	10.51

CUMULATIVE AREA = 2.97 SQ MI

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HYDROGRAPH AT STATION 1E-2E
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2350.	13.08	(CFS)	430.	108.	104.	104.
		(INCHES)	1.347	1.356	1.356	1.356
		(AC-FT)	213.	215.	215.	215.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
15.	13.08	4.	1.	1.	1.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
15.47	13.08	11.99	10.53	10.51	10.51

CUMULATIVE AREA = 2.97 SQ MI

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HYDROGRAPH AT STATION 1E-2E
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2219.	13.08	(CFS)	409.	103.	99.	99.
		(INCHES)	1.280	1.289	1.289	1.289
		(AC-FT)	203.	204.	204.	204.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
14.	13.08	3.	1.	1.	1.

PEAK STAGE (FEET)	TIME (HR)		MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
15.36	13.08		11.95	10.52	10.50	10.50

CUMULATIVE AREA = 2.97 SQ MI

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HYDROGRAPH AT STATION 1E-2E
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1952.	13.17	(CFS)	361.	91.	87.	87.
		(INCHES)	1.129	1.137	1.137	1.137
		(AC-FT)	179.	180.	180.	180.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
13.	13.17	3.	1.	1.	1.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
15.11	13.17	11.86	10.49	10.47	10.47

CUMULATIVE AREA = 2.97 SQ MI

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HYDROGRAPH AT STATION 1E-2E
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1836.	13.17	(CFS)	340.	86.	82.	82.
		(INCHES)	1.063	1.071	1.071	1.071
		(AC-FT)	168.	170.	170.	170.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
13.	13.17	3.	1.	1.	1.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
14.99	13.17	11.81	10.48	10.46	10.46

CUMULATIVE AREA = 2.97 SQ MI

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HYDROGRAPH AT STATION 1E-2E
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1570.	13.17	(CFS)	298.	75.	72.	72.
		(INCHES)	.933	.940	.940	.940

	(AC-FT)	148.	149.	149.	149.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
11.	13.17	3.	1.	1.	1.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
14.71	13.17	11.73	10.46	10.44	10.44

CUMULATIVE AREA = 2.97 SQ MI

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INTERPOLATED HYDROGRAPH AT 1E-2E

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	0.	1		1230	151	7.	1		1845	226	9.
1		0005	2	0.	1		0620	77	0.	1		1235	152	41.	1		1850	227	8.
1		0010	3	0.	1		0625	78	0.	1		1240	153	183.	1		1855	228	8.
1		0015	4	0.	1		0630	79	0.	1		1245	154	539.	1		1900	229	7.
1		0020	5	0.	1		0635	80	0.	1		1250	155	1130.	1		1905	230	7.
1		0025	6	0.	1		0640	81	0.	1		1255	156	1775.	1		1910	231	7.
1		0030	7	0.	1		0645	82	0.	1		1300	157	2196.	1		1915	232	6.
1		0035	8	0.	1		0650	83	0.	1		1305	158	2356.	1		1920	233	6.
1		0040	9	0.	1		0655	84	0.	1		1310	159	2322.	1		1925	234	5.
1		0045	10	0.	1		0700	85	0.	1		1315	160	2179.	1		1930	235	5.
1		0050	11	0.	1		0705	86	0.	1		1320	161	1991.	1		1935	236	5.
1		0055	12	0.	1		0710	87	0.	1		1325	162	1786.	1		1940	237	4.
1		0100	13	0.	1		0715	88	0.	1		1330	163	1583.	1		1945	238	4.
1		0105	14	0.	1		0720	89	0.	1		1335	164	1406.	1		1950	239	4.
1		0110	15	0.	1		0725	90	0.	1		1340	165	1239.	1		1955	240	3.
1		0115	16	0.	1		0730	91	0.	1		1345	166	1096.	1		2000	241	3.
1		0120	17	0.	1		0735	92	0.	1		1350	167	971.	1		2005	242	3.
1		0125	18	0.	1		0740	93	0.	1		1355	168	858.	1		2010	243	3.
1		0130	19	0.	1		0745	94	0.	1		1400	169	766.	1		2015	244	2.
1		0135	20	0.	1		0750	95	0.	1		1405	170	680.	1		2020	245	2.
1		0140	21	0.	1		0755	96	0.	1		1410	171	601.	1		2025	246	2.
1		0145	22	0.	1		0800	97	0.	1		1415	172	535.	1		2030	247	2.
1		0150	23	0.	1		0805	98	0.	1		1420	173	474.	1		2035	248	2.
1		0155	24	0.	1		0810	99	0.	1		1425	174	419.	1		2040	249	2.
1		0200	25	0.	1		0815	100	0.	1		1430	175	373.	1		2045	250	2.
1		0205	26	0.	1		0820	101	0.	1		1435	176	334.	1		2050	251	1.
1		0210	27	0.	1		0825	102	0.	1		1440	177	297.	1		2055	252	1.
1		0215	28	0.	1		0830	103	0.	1		1445	178	264.	1		2100	253	1.
1		0220	29	0.	1		0835	104	0.	1		1450	179	236.	1		2105	254	1.
1		0225	30	0.	1		0840	105	0.	1		1455	180	213.	1		2110	255	1.
1		0230	31	0.	1		0845	106	0.	1		1500	181	192.	1		2115	256	1.
1		0235	32	0.	1		0850	107	0.	1		1505	182	172.	1		2120	257	1.
1		0240	33	0.	1		0855	108	0.	1		1510	183	154.	1		2125	258	1.
1		0245	34	0.	1		0900	109	0.	1		1515	184	138.	1		2130	259	1.
1		0250	35	0.	1		0905	110	0.	1		1520	185	125.	1		2135	260	1.
1		0255	36	0.	1		0910	111	0.	1		1525	186	114.	1		2140	261	1.
1		0300	37	0.	1		0915	112	0.	1		1530	187	104.	1		2145	262	1.
1		0305	38	0.	1		0920	113	0.	1		1535	188	95.	1		2150	263	1.
1		0310	39	0.	1		0925	114	0.	1		1540	189	86.	1		2155	264	1.

1	0315	40	0.	*	1	0930	115	0.	*	1	1545	190	79.	*	1	2200	265	1.
1	0320	41	0.	*	1	0935	116	0.	*	1	1550	191	72.	*	1	2205	266	1.
1	0325	42	0.	*	1	0940	117	0.	*	1	1555	192	66.	*	1	2210	267	1.
1	0330	43	0.	*	1	0945	118	0.	*	1	1600	193	61.	*	1	2215	268	1.
1	0335	44	0.	*	1	0950	119	0.	*	1	1605	194	56.	*	1	2220	269	1.
1	0340	45	0.	*	1	0955	120	0.	*	1	1610	195	53.	*	1	2225	270	1.
1	0345	46	0.	*	1	1000	121	0.	*	1	1615	196	50.	*	1	2230	271	1.
1	0350	47	0.	*	1	1005	122	0.	*	1	1620	197	47.	*	1	2235	272	1.
1	0355	48	0.	*	1	1010	123	0.	*	1	1625	198	44.	*	1	2240	273	1.
1	0400	49	0.	*	1	1015	124	0.	*	1	1630	199	41.	*	1	2245	274	1.
1	0405	50	0.	*	1	1020	125	0.	*	1	1635	200	39.	*	1	2250	275	1.
1	0410	51	0.	*	1	1025	126	1.	*	1	1640	201	36.	*	1	2255	276	1.
1	0415	52	0.	*	1	1030	127	1.	*	1	1645	202	33.	*	1	2300	277	1.
1	0420	53	0.	*	1	1035	128	1.	*	1	1650	203	31.	*	1	2305	278	1.
1	0425	54	0.	*	1	1040	129	1.	*	1	1655	204	28.	*	1	2310	279	1.
1	0430	55	0.	*	1	1045	130	1.	*	1	1700	205	26.	*	1	2315	280	1.
1	0435	56	0.	*	1	1050	131	1.	*	1	1705	206	24.	*	1	2320	281	1.
1	0440	57	0.	*	1	1055	132	1.	*	1	1710	207	22.	*	1	2325	282	1.
1	0445	58	0.	*	1	1100	133	1.	*	1	1715	208	20.	*	1	2330	283	0.
1	0450	59	0.	*	1	1105	134	1.	*	1	1720	209	19.	*	1	2335	284	0.
1	0455	60	0.	*	1	1110	135	1.	*	1	1725	210	17.	*	1	2340	285	0.
1	0500	61	0.	*	1	1115	136	1.	*	1	1730	211	16.	*	1	2345	286	0.
1	0505	62	0.	*	1	1120	137	1.	*	1	1735	212	15.	*	1	2350	287	0.
1	0510	63	0.	*	1	1125	138	1.	*	1	1740	213	15.	*	1	2355	288	0.
1	0515	64	0.	*	1	1130	139	1.	*	1	1745	214	14.	*	2	0000	289	0.
1	0520	65	0.	*	1	1135	140	1.	*	1	1750	215	14.	*	2	0005	290	0.
1	0525	66	0.	*	1	1140	141	1.	*	1	1755	216	13.	*	2	0010	291	0.
1	0530	67	0.	*	1	1145	142	1.	*	1	1800	217	13.	*	2	0015	292	0.
1	0535	68	0.	*	1	1150	143	1.	*	1	1805	218	13.	*	2	0020	293	0.
1	0540	69	0.	*	1	1155	144	1.	*	1	1810	219	12.	*	2	0025	294	0.
1	0545	70	0.	*	1	1200	145	1.	*	1	1815	220	12.	*	2	0030	295	0.
1	0550	71	0.	*	1	1205	146	1.	*	1	1820	221	11.	*	2	0035	296	0.
1	0555	72	0.	*	1	1210	147	1.	*	1	1825	222	11.	*	2	0040	297	0.
1	0600	73	0.	*	1	1215	148	1.	*	1	1830	223	10.	*	2	0045	298	0.
1	0605	74	0.	*	1	1220	149	1.	*	1	1835	224	10.	*	2	0050	299	0.
1	0610	75	0.	*	1	1225	150	2.	*	1	1840	225	9.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
2356.	13.08	(CFS)	431.	109.	105.	105.
		(INCHES)	1.350	1.359	1.359	1.359
		(AC-FT)	214.	215.	215.	215.

CUMULATIVE AREA = 2.97 SQ MI

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          **************
          *            *
1 KK      *        F1  *
          *            *
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BASIN F1

THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN

L= 3.8 Lca= 1.5 S= 472.0 Kn= .050 LAG= 43.0
PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN

276 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

SUBBASIN RUNOFF DATA

277 BA SUBBASIN CHARACTERISTICS

TAREA	2.84	SUBBASIN AREA

278 LG GREEN AND AMPT LOSS RATE

STRTL	.28	STARTING LOSS
DTH	.35	MOISTURE DEFICIT
PSIF	3.98	WETTING FRONT SUCTION
XKSAT	.34	HYDRAULIC CONDUCTIVITY
RTIMP	13.00	PERCENT IMPERVIOUS AREA

277 UI INPUT UNITGRAPH, 39 ORDINATES, VOLUME = 1.00

222.0	231.0	710.0	1093.0	1443.0	1694.0	2119.0	2472.0	1593.0	1339.0
1203.0	1070.0	943.0	827.0	694.0	571.0	525.0	478.0	388.0	319.0
283.0	243.0	228.0	170.0	170.0	131.0	109.0	109.0	109.0	70.0
43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	

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HYDROGRAPH AT STATION F1
TRANSPOSITION AREA .0 SQ MI

TOTAL RAINFALL = 4.20, TOTAL LOSS = 2.60, TOTAL EXCESS = 1.60

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2287.	12.33	(CFS)	438.	122.	117.	117.
		(INCHES)	1.434	1.593	1.594	1.594
		(AC-FT)	217.	241.	241.	241.

CUMULATIVE AREA = 2.84 SQ MI

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

HYDROGRAPH AT STATION F1
TRANSPOSITION AREA 5.0 SQ MI

TOTAL RAINFALL = 4.12, TOTAL LOSS = 2.56, TOTAL EXCESS = 1.56

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2226.	12.33	(CFS)	427.	119.	114.	114.

	(INCHES)	1.397	1.553	1.554	1.554
	(AC-FT)	212.	235.	235.	235.

CUMULATIVE AREA = 2.84 SQ MI

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

HYDROGRAPH AT STATION F1
TRANSPOSITION AREA 10.0 SQ MI

TOTAL RAINFALL = 3.99, TOTAL LOSS = 2.50, TOTAL EXCESS = 1.49

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
2126.	12.33	(CFS)	408.	114.	109.	109.
		(INCHES)	1.336	1.487	1.488	1.488
		(AC-FT)	202.	225.	225.	225.

CUMULATIVE AREA = 2.84 SQ MI

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HYDROGRAPH AT STATION F1
TRANSPOSITION AREA 50.0 SQ MI

TOTAL RAINFALL = 3.70, TOTAL LOSS = 2.36, TOTAL EXCESS = 1.34

AK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
1900.	12.33	(CFS)	366.	102.	99.	99.
		(INCHES)	1.199	1.339	1.340	1.340
		(AC-FT)	182.	203.	203.	203.

CUMULATIVE AREA = 2.84 SQ MI

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

HYDROGRAPH AT STATION F1
TRANSPOSITION AREA 100.0 SQ MI

TOTAL RAINFALL = 3.57, TOTAL LOSS = 2.29, TOTAL EXCESS = 1.28

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
1798.	12.33	(CFS)	347.	97.	94.	94.
		(INCHES)	1.136	1.271	1.272	1.272
		(AC-FT)	172.	193.	193.	193.

CUMULATIVE AREA = 2.84 SQ MI

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

HYDROGRAPH AT STATION F1
TRANSPOSITION AREA 500.0 SQ MI

TOTAL RAINFALL = 3.28, TOTAL LOSS = 2.16, TOTAL EXCESS = 1.12

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1567.	12.33	(CFS)	304.	86.	82.	82.
		(INCHES)	.996	1.120	1.121	1.121
		(AC-FT)	151.	170.	170.	170.

CUMULATIVE AREA = 2.84 SQ MI

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INTERPOLATED HYDROGRAPH AT F1

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	16.	1		1230	151	2075.	1		1845	226	17.
1		0005	2	0.	1		0620	77	17.	1		1235	152	1843.	1		1850	227	17.
1		0010	3	0.	1		0625	78	17.	1		1240	153	1514.	1		1855	228	17.
1		0015	4	1.	1		0630	79	17.	1		1245	154	1335.	1		1900	229	17.
1		0020	5	1.	1		0635	80	17.	1		1250	155	1181.	1		1905	230	17.
1		0025	6	2.	1		0640	81	17.	1		1255	156	1043.	1		1910	231	16.
1		0030	7	2.	1		0645	82	17.	1		1300	157	921.	1		1915	232	16.
1		0035	8	3.	1		0650	83	17.	1		1305	158	805.	1		1920	233	16.
1		0040	9	5.	1		0655	84	17.	1		1310	159	697.	1		1925	234	16.
1		0045	10	5.	1		0700	85	17.	1		1315	160	610.	1		1930	235	16.
1		0050	11	6.	1		0705	86	17.	1		1320	161	540.	1		1935	236	16.
1		0055	12	7.	1		0710	87	18.	1		1325	162	477.	1		1940	237	16.
1		0100	13	7.	1		0715	88	18.	1		1330	163	411.	1		1945	238	16.
1		0105	14	8.	1		0720	89	18.	1		1335	164	363.	1		1950	239	16.
1		0110	15	8.	1		0725	90	18.	1		1340	165	321.	1		1955	240	16.
1		0115	16	9.	1		0730	91	19.	1		1345	166	283.	1		2000	241	15.
1		0120	17	9.	1		0735	92	19.	1		1350	167	253.	1		2005	242	15.
1		0125	18	9.	1		0740	93	19.	1		1355	168	226.	1		2010	243	15.
1		0130	19	9.	1		0745	94	20.	1		1400	169	203.	1		2015	244	15.
1		0135	20	10.	1		0750	95	20.	1		1405	170	174.	1		2020	245	15.
1		0140	21	10.	1		0755	96	20.	1		1410	171	154.	1		2025	246	14.
1		0145	22	10.	1		0800	97	20.	1		1415	172	138.	1		2030	247	14.
1		0150	23	10.	1		0805	98	21.	1		1420	173	123.	1		2035	248	14.
1		0155	24	10.	1		0810	99	21.	1		1425	174	108.	1		2040	249	14.
1		0200	25	10.	1		0815	100	21.	1		1430	175	100.	1		2045	250	14.
1		0205	26	10.	1		0820	101	21.	1		1435	176	98.	1		2050	251	14.
1		0210	27	11.	1		0825	102	22.	1		1440	177	96.	1		2055	252	14.
1		0215	28	11.	1		0830	103	22.	1		1445	178	95.	1		2100	253	14.
1		0220	29	11.	1		0835	104	23.	1		1450	179	85.	1		2105	254	13.
1		0225	30	11.	1		0840	105	23.	1		1455	180	76.	1		2110	255	13.
1		0230	31	11.	1		0845	106	23.	1		1500	181	66.	1		2115	256	13.
1		0235	32	11.	1		0850	107	24.	1		1505	182	56.	1		2120	257	13.
1		0240	33	11.	1		0855	108	24.	1		1510	183	46.	1		2125	258	13.
1		0245	34	11.	1		0900	109	25.	1		1515	184	37.	1		2130	259	13.
1		0250	35	12.	1		0905	110	25.	1		1520	185	36.	1		2135	260	13.
1		0255	36	12.	1		0910	111	25.	1		1525	186	35.	1		2140	261	13.
1		0300	37	12.	1		0915	112	26.	1		1530	187	34.	1		2145	262	13.
1		0305	38	12.	1		0920	113	26.	1		1535	188	33.	1		2150	263	13.
1		0310	39	12.	1		0925	114	27.	1		1540	189	32.	1		2155	264	13.
1		0315	40	13.	1		0930	115	27.	1		1545	190	31.	1		2200	265	13.
1		0320	41	13.	1		0935	116	28.	1		1550	191	30.	1		2205	266	13.
1		0325	42	13.	1		0940	117	28.	1		1555	192	30.	1		2210	267	13.

1	0330	43	13.	*	1	0945	118	29.	*	1	1600	193	29.	*	1	2215	268	12.
1	0335	44	13.	*	1	0950	119	30.	*	1	1605	194	28.	*	1	2220	269	12.
1	0340	45	12.	*	1	0955	120	30.	*	1	1610	195	27.	*	1	2225	270	12.
1	0345	46	12.	*	1	1000	121	31.	*	1	1615	196	27.	*	1	2230	271	12.
1	0350	47	12.	*	1	1005	122	31.	*	1	1620	197	26.	*	1	2235	272	12.
1	0355	48	12.	*	1	1010	123	32.	*	1	1625	198	26.	*	1	2240	273	12.
1	0400	49	13.	*	1	1015	124	33.	*	1	1630	199	25.	*	1	2245	274	12.
1	0405	50	13.	*	1	1020	125	34.	*	1	1635	200	25.	*	1	2250	275	12.
1	0410	51	13.	*	1	1025	126	35.	*	1	1640	201	24.	*	1	2255	276	12.
1	0415	52	13.	*	1	1030	127	36.	*	1	1645	202	24.	*	1	2300	277	11.
1	0420	53	13.	*	1	1035	128	37.	*	1	1650	203	23.	*	1	2305	278	11.
1	0425	54	14.	*	1	1040	129	39.	*	1	1655	204	23.	*	1	2310	279	11.
1	0430	55	14.	*	1	1045	130	40.	*	1	1700	205	23.	*	1	2315	280	11.
1	0435	56	14.	*	1	1050	131	42.	*	1	1705	206	23.	*	1	2320	281	11.
1	0440	57	14.	*	1	1055	132	43.	*	1	1710	207	23.	*	1	2325	282	11.
1	0445	58	14.	*	1	1100	133	45.	*	1	1715	208	22.	*	1	2330	283	11.
1	0450	59	14.	*	1	1105	134	48.	*	1	1720	209	22.	*	1	2335	284	11.
1	0455	60	14.	*	1	1110	135	50.	*	1	1725	210	22.	*	1	2340	285	11.
1	0500	61	14.	*	1	1115	136	53.	*	1	1730	211	22.	*	1	2345	286	11.
1	0505	62	14.	*	1	1120	137	56.	*	1	1735	212	21.	*	1	2350	287	11.
1	0510	63	14.	*	1	1125	138	59.	*	1	1740	213	21.	*	1	2355	288	11.
1	0515	64	14.	*	1	1130	139	63.	*	1	1745	214	21.	*	2	0000	289	11.
1	0520	65	14.	*	1	1135	140	110.	*	1	1750	215	21.	*	2	0005	290	11.
1	0525	66	14.	*	1	1140	141	160.	*	1	1755	216	20.	*	2	0010	291	10.
1	0530	67	15.	*	1	1145	142	303.	*	1	1800	217	20.	*	2	0015	292	10.
1	0535	68	15.	*	1	1150	143	522.	*	1	1805	218	20.	*	2	0020	293	9.
1	0540	69	15.	*	1	1155	144	811.	*	1	1810	219	19.	*	2	0025	294	9.
1	0545	70	15.	*	1	1200	145	1152.	*	1	1815	220	19.	*	2	0030	295	8.
1	0550	71	15.	*	1	1205	146	1534.	*	1	1820	221	19.	*	2	0035	296	7.
1	0555	72	15.	*	1	1210	147	1986.	*	1	1825	222	18.	*	2	0040	297	6.
1	0600	73	16.	*	1	1215	148	2172.	*	1	1830	223	18.	*	2	0045	298	5.
1	0605	74	16.	*	1	1220	149	2232.	*	1	1835	224	18.	*	2	0050	299	4.
1	0610	75	16.	*	1	1225	150	2192.	*	1	1840	225	17.	*	2	0055	300	4.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
2232.	12.33	(CFS)	428.	119.	115.	115.
		(INCHES)	1.400	1.556	1.557	1.557
		(AC-FT)	212.	236.	236.	236.

CUMULATIVE AREA = 2.84 SQ MI

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          *            *
285 KK    *     F1-1F  *       Routing thru F2
          *            *
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286 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          2  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL          0.  HYDROGRAPH PLOT SCALE
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IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

HYDROGRAPH ROUTING DATA

287 RS STORAGE ROUTING

NSTPS	5	NUMBER OF SUBREACHES
ITYP	FLOW	TYPE OF INITIAL CONDITION
RSVRIC	.00	INITIAL CONDITION
X	.00	WORKING R AND D COEFFICIENT

288 RC NORMAL DEPTH CHANNEL

ANL	.053	LEFT OVERBANK N-VALUE
ANCH	.045	MAIN CHANNEL N-VALUE
ANR	.055	RIGHT OVERBANK N-VALUE
RLNTH	18320.	REACH LENGTH
SEL	.0333	ENERGY SLOPE
ELMAX	.0	MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

CROSS-SECTION DATA

		--- LEFT OVERBANK ---		+ ------ MAIN CHANNEL -------			+ --- RIGHT OVERBANK ---	
290 RY	ELEVATION	27.00	26.00	25.00	10.00	10.00	24.00	26.00	28.00
289 RX	DISTANCE	.00	60.00	120.00	146.00	178.00	208.00	268.00	328.00

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COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	13.48	28.43	44.83	62.70	82.04	102.84	125.10	148.82	174.01
OUTFLOW	.00	178.81	576.73	1154.73	1903.36	2820.84	3908.75	5170.41	6610.12	8232.77
ELEVATION	10.00	10.95	11.89	12.84	13.79	14.74	15.68	16.63	17.58	18.53
STORAGE	200.66	228.77	258.34	289.38	321.88	356.11	399.44	469.10	572.70	697.73
OUTFLOW	10043.60	12048.06	14251.73	16660.27	19279.37	22191.75	25710.54	30056.43	35348.15	41988.24
ELEVATION	19.47	20.42	21.37	22.32	23.26	24.21	25.16	26.11	27.05	28.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 5170. TO 30056.
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 F1-1F
TRANSPOSITION AREA .0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2163.	12.58	(CFS)	438.	121.	117.	117.
		(INCHES)	1.433	1.590	1.590	1.590
		(AC-FT)	217.	241.	241.	241.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
14.	12.58	4.	1.	1.	1.

PEAK STAGE (FEET)	TIME (HR)		MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
14.06	12.58		11.21	10.37	10.35	10.35

CUMULATIVE AREA = 2.84 SQ MI

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HYDROGRAPH AT STATION F1-1F
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2100.	12.67	(CFS)	426.	118.	114.	114.
		(INCHES)	1.396	1.550	1.550	1.550
		(AC-FT)	211.	235.	235.	235.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
13.	12.67	4.	1.	1.	1.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
13.99	12.67	11.19	10.36	10.35	10.35

CUMULATIVE AREA = 2.84 SQ MI

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HYDROGRAPH AT STATION F1-1F
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2004.	12.67	(CFS)	408.	113.	109.	109.
		(INCHES)	1.335	1.484	1.484	1.484
		(AC-FT)	202.	225.	225.	225.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
13.	12.67	4.	1.	1.	1.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
13.89	12.67	11.16	10.35	10.34	10.34

CUMULATIVE AREA = 2.84 SQ MI

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HYDROGRAPH AT STATION F1-1F
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1787.	12.67	(CFS)	366.	102.	98.	98.
		(INCHES)	1.198	1.336	1.336	1.336

	(AC-FT)	181.	202.	202.	202.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
[illegible]-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
[illegible]12.	12.67	3.	1.	1.	1.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
13.64	12.67	11.08	10.33	10.32	10.32

CUMULATIVE AREA = 2.84 SQ MI

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HYDROGRAPH AT STATION F1-1F
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
1690.	12.67	(CFS)	347.	97.	93.	93.
		(INCHES)	1.136	1.269	1.269	1.269
		(AC-FT)	172.	192.	192.	192.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
12.	12.67	3.	1.	1.	1.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
[illegible]EET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
13.52	12.67	11.05	10.32	10.30	10.30

CUMULATIVE AREA = 2.84 SQ MI

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HYDROGRAPH AT STATION F1-1F
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
1469.	12.67	(CFS)	304.	85.	82.	82.
		(INCHES)	.995	1.118	1.118	1.118
		(AC-FT)	151.	169.	169.	169.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
10.	12.67	3.	1.	1.	1.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
13.24	12.67	10.97	10.29	10.28	10.28

[illegible]

CUMULATIVE AREA = 2.84 SQ MI

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INTERPOLATED HYDROGRAPH AT F1-1F

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	15.	1		1230	151	1939.	1		1845	226	20.
1		0005	2	0.	1		0620	77	15.	1		1235	152	2105.	1		1850	227	20.
1		0010	3	0.	1		0625	78	15.	1		1240	153	2106.	1		1855	228	20.
1		0015	4	0.	1		0630	79	15.	1		1245	154	1999.	1		1900	229	20.
1		0020	5	0.	1		0635	80	15.	1		1250	155	1836.	1		1905	230	19.
1		0025	6	0.	1		0640	81	15.	1		1255	156	1652.	1		1910	231	19.
1		0030	7	0.	1		0645	82	15.	1		1300	157	1460.	1		1915	232	19.
1		0035	8	0.	1		0650	83	16.	1		1305	158	1289.	1		1920	233	18.
1		0040	9	0.	1		0655	84	16.	1		1310	159	1151.	1		1925	234	18.
1		0045	10	0.	1		0700	85	16.	1		1315	160	1046.	1		1930	235	18.
1		0050	11	0.	1		0705	86	16.	1		1320	161	937.	1		1935	236	18.
1		0055	12	1.	1		0710	87	16.	1		1325	162	831.	1		1940	237	17.
1		0100	13	1.	1		0715	88	16.	1		1330	163	733.	1		1945	238	17.
1		0105	14	1.	1		0720	89	17.	1		1335	164	649.	1		1950	239	17.
1		0110	15	2.	1		0725	90	17.	1		1340	165	584.	1		1955	240	17.
1		0115	16	2.	1		0730	91	17.	1		1345	166	539.	1		2000	241	17.
1		0120	17	3.	1		0735	92	17.	1		1350	167	492.	1		2005	242	17.
1		0125	18	3.	1		0740	93	17.	1		1355	168	444.	1		2010	243	16.
1		0130	19	4.	1		0745	94	17.	1		1400	169	397.	1		2015	244	16.
1		0135	20	5.	1		0750	95	17.	1		1405	170	354.	1		2020	245	16.
1		0140	21	5.	1		0755	96	17.	1		1410	171	315.	1		2025	246	16.
1		0145	22	6.	1		0800	97	18.	1		1415	172	280.	1		2030	247	16.
1		0150	23	6.	1		0805	98	18.	1		1420	173	249.	1		2035	248	16.
1		0155	24	7.	1		0810	99	18.	1		1425	174	223.	1		2040	249	16.
1		0200	25	7.	1		0815	100	18.	1		1430	175	202.	1		2045	250	16.
1		0205	26	8.	1		0820	101	19.	1		1435	176	187.	1		2050	251	15.
1		0210	27	8.	1		0825	102	19.	1		1440	177	178.	1		2055	252	15.
1		0215	28	8.	1		0830	103	19.	1		1445	178	173.	1		2100	253	15.
1		0220	29	9.	1		0835	104	19.	1		1450	179	166.	1		2105	254	15.
1		0225	30	9.	1		0840	105	20.	1		1455	180	159.	1		2110	255	15.
1		0230	31	9.	1		0845	106	20.	1		1500	181	152.	1		2115	256	15.
1		0235	32	9.	1		0850	107	20.	1		1505	182	144.	1		2120	257	15.
1		0240	33	10.	1		0855	108	20.	1		1510	183	136.	1		2125	258	14.
1		0245	34	10.	1		0900	109	21.	1		1515	184	128.	1		2130	259	14.
1		0250	35	10.	1		0905	110	21.	1		1520	185	120.	1		2135	260	14.
1		0255	36	10.	1		0910	111	21.	1		1525	186	112.	1		2140	261	14.
1		0300	37	10.	1		0915	112	22.	1		1530	187	104.	1		2145	262	14.
1		0305	38	11.	1		0920	113	22.	1		1535	188	96.	1		2150	263	14.
1		0310	39	11.	1		0925	114	22.	1		1540	189	89.	1		2155	264	14.
1		0315	40	11.	1		0930	115	23.	1		1545	190	81.	1		2200	265	13.
1		0320	41	11.	1		0935	116	23.	1		1550	191	74.	1		2205	266	13.
1		0325	42	11.	1		0940	117	23.	1		1555	192	67.	1		2210	267	13.
1		0330	43	11.	1		0945	118	24.	1		1600	193	62.	1		2215	268	13.
1		0335	44	11.	1		0950	119	24.	1		1605	194	56.	1		2220	269	13.
1		0340	45	12.	1		0955	120	25.	1		1610	195	52.	1		2225	270	13.
1		0345	46	12.	1		1000	121	25.	1		1615	196	48.	1		2230	271	13.
1		0350	47	12.	1		1005	122	26.	1		1620	197	44.	1		2235	272	13.
1		0355	48	12.	1		1010	123	26.	1		1625	198	41.	1		2240	273	13.
1		0400	49	12.	1		1015	124	27.	1		1630	199	39.	1		2245	274	13.
1		0405	50	12.	1		1020	125	27.	1		1635	200	36.	1		2250	275	13.
1		0410	51	12.	1		1025	126	28.	1		1640	201	35.	1		2255	276	13.
1		0415	52	12.	1		1030	127	28.	1		1645	202	33.	1		2300	277	13.
1		0420	53	12.	1		1035	128	29.	1		1650	203	32.	1		2305	278	13.
1		0425	54	12.	1		1040	129	29.	1		1655	204	30.	1		2310	279	12.
1		0430	55	12.	1		1045	130	30.	1		1700	205	29.	1		2315	280	12.

1	0435	56	13.	*	1	1050	131	31.	*	1	1705	206	28.	*	1	2320	281	12.
1	0440	57	13.	*	1	1055	132	31.	*	1	1710	207	28.	*	1	2325	282	12.
1	0445	58	13.	*	1	1100	133	32.	*	1	1715	208	27.	*	1	2330	283	12.
1	0450	59	13.	*	1	1105	134	33.	*	1	1720	209	26.	*	1	2335	284	12.
1	0455	60	13.	*	1	1110	135	34.	*	1	1725	210	26.	*	1	2340	285	12.
1	0500	61	13.	*	1	1115	136	35.	*	1	1730	211	25.	*	1	2345	286	12.
1	0505	62	13.	*	1	1120	137	36.	*	1	1735	212	25.	*	1	2350	287	12.
1	0510	63	13.	*	1	1125	138	37.	*	1	1740	213	24.	*	1	2355	288	11.
1	0515	64	13.	*	1	1130	139	39.	*	1	1745	214	24.	*	2	0000	289	11.
1	0520	65	14.	*	1	1135	140	40.	*	1	1750	215	24.	*	2	0005	290	11.
1	0525	66	14.	*	1	1140	141	42.	*	1	1755	216	23.	*	2	0010	291	11.
1	0530	67	14.	*	1	1145	142	44.	*	1	1800	217	23.	*	2	0015	292	11.
1	0535	68	14.	*	1	1150	143	48.	*	1	1805	218	23.	*	2	0020	293	11.
1	0540	69	14.	*	1	1155	144	54.	*	1	1810	219	22.	*	2	0025	294	11.
1	0545	70	14.	*	1	1200	145	70.	*	1	1815	220	22.	*	2	0030	295	11.
1	0550	71	14.	*	1	1205	146	114.	*	1	1820	221	22.	*	2	0035	296	11.
1	0555	72	14.	*	1	1210	147	262.	*	1	1825	222	22.	*	2	0040	297	11.
1	0600	73	14.	*	1	1215	148	619.	*	1	1830	223	21.	*	2	0045	298	11.
1	0605	74	14.	*	1	1220	149	1130.	*	1	1835	224	21.	*	2	0050	299	10.
1	0610	75	14.	*	1	1225	150	1616.	*	1	1840	225	21.	*	2	0055	300	10.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
2106.	12.67	(CFS)	427.	119.	114.	114.
		(INCHES)	1.399	1.553	1.553	1.553
		(AC-FT)	212.	235.	235.	235.

CUMULATIVE AREA = 2.84 SQ MI

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          *            *
291 KK    *        F2  *
          *            *
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BASIN F2
THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
L= 3.5 Lca= 1.5 S= 176.0 Kn= .050 LAG= 50.0
PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN

296 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

SUBBASIN RUNOFF DATA

297 BA SUBBASIN CHARACTERISTICS

TAREA	2.88	SUBBASIN AREA

298 LG GREEN AND AMPT LOSS RATE

STRTL	.20	STARTING LOSS
DTH	.35	MOISTURE DEFICIT
PSIF	4.03	WETTING FRONT SUCTION
XKSAT	.35	HYDRAULIC CONDUCTIVITY
RTIMP	2.00	PERCENT IMPERVIOUS AREA

297 UI INPUT UNITGRAPH, 46 ORDINATES, VOLUME = 1.00

194.0	194.0	449.0	770.0	1096.0	1314.0	1498.0	1817.0	2283.0	1541.0
1245.0	1124.0	1016.0	925.0	825.0	745.0	638.0	539.0	481.0	449.0
410.0	336.0	290.0	248.0	227.0	212.0	181.0	149.0	149.0	122.0
95.0	95.0	95.0	95.0	49.0	37.0	37.0	37.0	37.0	37.0
37.0	37.0	37.0	37.0	37.0	37.0				

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HYDROGRAPH AT STATION F2
TRANSPOSITION AREA .0 SQ MI

TOTAL RAINFALL = 4.20, TOTAL LOSS = 2.93, TOTAL EXCESS = 1.27

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1978.	12.42	(CFS)	386.	98.	95.	95.
		(INCHES)	1.246	1.271	1.271	1.271
		(AC-FT)	191.	195.	195.	195.

CUMULATIVE AREA = 2.88 SQ MI

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HYDROGRAPH AT STATION F2
TRANSPOSITION AREA 5.0 SQ MI

TOTAL RAINFALL = 4.12, TOTAL LOSS = 2.88, TOTAL EXCESS = 1.24

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1923.	12.42	(CFS)	375.	96.	92.	92.
		(INCHES)	1.211	1.235	1.236	1.236
		(AC-FT)	186.	190.	190.	190.

CUMULATIVE AREA = 2.88 SQ MI

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HYDROGRAPH AT STATION F2
TRANSPOSITION AREA 10.0 SQ MI

TOTAL RAINFALL = 3.99, TOTAL LOSS = 2.81, TOTAL EXCESS = 1.18

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

1833.	12.42	(CFS)	358.	91.	88.	88.
		(INCHES)	1.155	1.178	1.178	1.178
		(AC-FT)	177.	181.	181.	181.

CUMULATIVE AREA = 2.88 SQ MI

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HYDROGRAPH AT STATION F2
TRANSPOSITION AREA 50.0 SQ MI

TOTAL RAINFALL = 3.70, TOTAL LOSS = 2.65, TOTAL EXCESS = 1.05

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
1630.	12.42	(CFS)	318.	81.	78.	78.
		(INCHES)	1.027	1.049	1.049	1.049
		(AC-FT)	158.	161.	161.	161.

CUMULATIVE AREA = 2.88 SQ MI

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HYDROGRAPH AT STATION F2
TRANSPOSITION AREA 100.0 SQ MI

TOTAL RAINFALL = 3.57, TOTAL LOSS = 2.58, TOTAL EXCESS = .99

K FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
1537.	12.42	(CFS)	300.	77.	74.	74.
		(INCHES)	.970	.990	.991	.991
		(AC-FT)	149.	152.	152.	152.

CUMULATIVE AREA = 2.88 SQ MI

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HYDROGRAPH AT STATION F2
TRANSPOSITION AREA 500.0 SQ MI

TOTAL RAINFALL = 3.28, TOTAL LOSS = 2.42, TOTAL EXCESS = .86

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
1329.	12.42	(CFS)	260.	66.	64.	64.
		(INCHES)	.839	.858	.858	.858
		(AC-FT)	129.	132.	132.	132.

CUMULATIVE AREA = 2.88 SQ MI

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INTERPOLATED HYDROGRAPH AT F2

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	3.	*	1		1230	151	1895.	*	1		1845	226	3.
1		0005	2	0.	*	1		0620	77	3.	*	1		1235	152	1804.	*	1		1850	227	3.
1		0010	3	0.	*	1		0625	78	3.	*	1		1240	153	1629.	*	1		1855	228	3.
1		0015	4	0.	*	1		0630	79	3.	*	1		1245	154	1338.	*	1		1900	229	3.
1		0020	5	0.	*	1		0635	80	3.	*	1		1250	155	1180.	*	1		1905	230	3.
1		0025	6	0.	*	1		0640	81	3.	*	1		1255	156	1061.	*	1		1910	231	3.
1		0030	7	0.	*	1		0645	82	3.	*	1		1300	157	945.	*	1		1915	232	3.
1		0035	8	0.	*	1		0650	83	3.	*	1		1305	158	839.	*	1		1920	233	3.
1		0040	9	1.	*	1		0655	84	3.	*	1		1310	159	744.	*	1		1925	234	3.
1		0045	10	1.	*	1		0700	85	3.	*	1		1315	160	661.	*	1		1930	235	3.
1		0050	11	1.	*	1		0705	86	3.	*	1		1320	161	579.	*	1		1935	236	3.
1		0055	12	1.	*	1		0710	87	3.	*	1		1325	162	510.	*	1		1940	237	3.
1		0100	13	1.	*	1		0715	88	3.	*	1		1330	163	452.	*	1		1945	238	3.
1		0105	14	1.	*	1		0720	89	3.	*	1		1335	164	401.	*	1		1950	239	2.
1		0110	15	1.	*	1		0725	90	3.	*	1		1340	165	354.	*	1		1955	240	2.
1		0115	16	1.	*	1		0730	91	3.	*	1		1345	166	308.	*	1		2000	241	2.
1		0120	17	1.	*	1		0735	92	3.	*	1		1350	167	270.	*	1		2005	242	2.
1		0125	18	1.	*	1		0740	93	3.	*	1		1355	168	242.	*	1		2010	243	2.
1		0130	19	1.	*	1		0745	94	3.	*	1		1400	169	216.	*	1		2015	244	2.
1		0135	20	1.	*	1		0750	95	3.	*	1		1405	170	190.	*	1		2020	245	2.
1		0140	21	1.	*	1		0755	96	3.	*	1		1410	171	166.	*	1		2025	246	2.
1		0145	22	1.	*	1		0800	97	3.	*	1		1415	172	149.	*	1		2030	247	2.
1		0150	23	1.	*	1		0805	98	3.	*	1		1420	173	138.	*	1		2035	248	2.
1		0155	24	1.	*	1		0810	99	3.	*	1		1425	174	118.	*	1		2040	249	2.
1		0200	25	2.	*	1		0815	100	3.	*	1		1430	175	101.	*	1		2045	250	2.
1		0205	26	2.	*	1		0820	101	3.	*	1		1435	176	89.	*	1		2050	251	2.
1		0210	27	2.	*	1		0825	102	3.	*	1		1440	177	77.	*	1		2055	252	2.
1		0215	28	2.	*	1		0830	103	3.	*	1		1445	178	65.	*	1		2100	253	2.
1		0220	29	2.	*	1		0835	104	3.	*	1		1450	179	53.	*	1		2105	254	2.
1		0225	30	2.	*	1		0840	105	3.	*	1		1455	180	51.	*	1		2110	255	2.
1		0230	31	2.	*	1		0845	106	4.	*	1		1500	181	50.	*	1		2115	256	2.
1		0235	32	2.	*	1		0850	107	4.	*	1		1505	182	50.	*	1		2120	257	2.
1		0240	33	2.	*	1		0855	108	4.	*	1		1510	183	50.	*	1		2125	258	2.
1		0245	34	2.	*	1		0900	109	4.	*	1		1515	184	50.	*	1		2130	259	2.
1		0250	35	2.	*	1		0905	110	4.	*	1		1520	185	50.	*	1		2135	260	2.
1		0255	36	2.	*	1		0910	111	4.	*	1		1525	186	42.	*	1		2140	261	2.
1		0300	37	2.	*	1		0915	112	4.	*	1		1530	187	35.	*	1		2145	262	2.
1		0305	38	2.	*	1		0920	113	4.	*	1		1535	188	28.	*	1		2150	263	2.
1		0310	39	2.	*	1		0925	114	4.	*	1		1540	189	20.	*	1		2155	264	2.
1		0315	40	2.	*	1		0930	115	4.	*	1		1545	190	13.	*	1		2200	265	2.
1		0320	41	2.	*	1		0935	116	4.	*	1		1550	191	5.	*	1		2205	266	2.
1		0325	42	2.	*	1		0940	117	4.	*	1		1555	192	5.	*	1		2210	267	2.
1		0330	43	2.	*	1		0945	118	4.	*	1		1600	193	5.	*	1		2215	268	2.
1		0335	44	2.	*	1		0950	119	4.	*	1		1605	194	5.	*	1		2220	269	2.
1		0340	45	2.	*	1		0955	120	5.	*	1		1610	195	5.	*	1		2225	270	2.
1		0345	46	2.	*	1		1000	121	5.	*	1		1615	196	4.	*	1		2230	271	2.
1		0350	47	2.	*	1		1005	122	5.	*	1		1620	197	4.	*	1		2235	272	2.
1		0355	48	2.	*	1		1010	123	5.	*	1		1625	198	4.	*	1		2240	273	2.
1		0400	49	2.	*	1		1015	124	5.	*	1		1630	199	4.	*	1		2245	274	2.
1		0405	50	2.	*	1		1020	125	5.	*	1		1635	200	4.	*	1		2250	275	2.
1		0410	51	2.	*	1		1025	126	5.	*	1		1640	201	4.	*	1		2255	276	2.
1		0415	52	2.	*	1		1030	127	5.	*	1		1645	202	4.	*	1		2300	277	2.
1		0420	53	2.	*	1		1035	128	6.	*	1		1650	203	4.	*	1		2305	278	2.
1		0425	54	2.	*	1		1040	129	6.	*	1		1655	204	4.	*	1		2310	279	2.
1		0430	55	2.	*	1		1045	130	6.	*	1		1700	205	4.	*	1		2315	280	2.
1		0435	56	2.	*	1		1050	131	6.	*	1		1705	206	4.	*	1		2320	281	2.
1		0440	57	2.	*	1		1055	132	6.	*	1		1710	207	4.	*	1		2325	282	2.

1	0445	58	2.	*	1	1100	133	7.	*	1	1715	208	4.	*	1	2330	283	2.
1	0450	59	2.	*	1	1105	134	7.	*	1	1720	209	4.	*	1	2335	284	2.
1	0455	60	2.	*	1	1110	135	7.	*	1	1725	210	4.	*	1	2340	285	2.
1	0500	61	2.	*	1	1115	136	8.	*	1	1730	211	3.	*	1	2345	286	2.
1	0505	62	2.	*	1	1120	137	8.	*	1	1735	212	3.	*	1	2350	287	2.
1	0510	63	2.	*	1	1125	138	9.	*	1	1740	213	3.	*	1	2355	288	2.
1	0515	64	2.	*	1	1130	139	9.	*	1	1745	214	3.	*	2	0000	289	2.
1	0520	65	2.	*	1	1135	140	47.	*	1	1750	215	3.	*	2	0005	290	2.
1	0525	66	2.	*	1	1140	141	85.	*	1	1755	216	3.	*	2	0010	291	2.
1	0530	67	2.	*	1	1145	142	173.	*	1	1800	217	3.	*	2	0015	292	2.
1	0535	68	2.	*	1	1150	143	323.	*	1	1805	218	3.	*	2	0020	293	2.
1	0540	69	2.	*	1	1155	144	538.	*	1	1810	219	3.	*	2	0025	294	1.
1	0545	70	2.	*	1	1200	145	796.	*	1	1815	220	3.	*	2	0030	295	1.
1	0550	71	2.	*	1	1205	146	1053.	*	1	1820	221	3.	*	2	0035	296	1.
1	0555	72	2.	*	1	1210	147	1374.	*	1	1825	222	3.	*	2	0040	297	1.
1	0600	73	2.	*	1	1215	148	1735.	*	1	1830	223	3.	*	2	0045	298	1.
1	0605	74	2.	*	1	1220	149	1893.	*	1	1835	224	3.	*	2	0050	299	1.
1	0610	75	2.	*	1	1225	150	1928.	*	1	1840	225	3.	*	2	0055	300	1.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
1928.	12.42	(CFS)	376.	96.	92.	92.
		(INCHES)	1.214	1.239	1.239	1.239
		(AC-FT)	187.	190.	190.	190.

CUMULATIVE AREA = 2.88 SQ MI

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          **************
          *            *
305 KK    *        1F  *
          *            *
          **************
                    Combining F1 & F2

307 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          2  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL         0.  HYDROGRAPH PLOT SCALE
                     IPNCH          0  PUNCH COMPUTED HYDROGRAPH
                      IOUT         22  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


308 HC          HYDROGRAPH COMBINATION
                     ICOMP          2  NUMBER OF HYDROGRAPHS TO COMBINE

                                                  ***

    ***             ***             ***             ***             ***
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HYDROGRAPH AT STATION 1F
TRANSPOSITION AREA .0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
4013.	12.58	(CFS)	824.	220.	212.	212.
		(INCHES)	1.339	1.429	1.429	1.429
		(AC-FT)	408.	436.	436.	436.

CUMULATIVE AREA = 5.72 SQ MI

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

HYDROGRAPH AT STATION 1F
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
3899.	12.58	(CFS)	801.	214.	206.	206.
		(INCHES)	1.303	1.391	1.392	1.392
		(AC-FT)	397.	424.	425.	425.

CUMULATIVE AREA = 5.72 SQ MI

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

HYDROGRAPH AT STATION 1F
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
3705.	12.58	(CFS)	765.	205.	197.	197.
		(INCHES)	1.244	1.330	1.330	1.330
		(AC-FT)	379.	406.	406.	406.

CUMULATIVE AREA = 5.72 SQ MI

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

HYDROGRAPH AT STATION 1F
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
3280.	12.58	(CFS)	684.	183.	177.	177.
		(INCHES)	1.112	1.191	1.192	1.192
		(AC-FT)	339.	363.	363.	363.

CUMULATIVE AREA = 5.72 SQ MI

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

HYDROGRAPH AT STATION 1F
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW TIME MAXIMUM AVERAGE FLOW

PEAK FLOW (CFS)	TIME (HR)		6-HR	24-HR	72-HR	24.92-HR
3096.	12.58	(CFS)	647.	174.	167.	167.
		(INCHES)	1.052	1.129	1.129	1.129
		(AC-FT)	321.	344.	344.	344.

CUMULATIVE AREA = 5.72 SQ MI

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

HYDROGRAPH AT STATION 1F
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2673.	12.58	(CFS)	564.	152.	146.	146.
		(INCHES)	.916	.987	.987	.987
		(AC-FT)	280.	301.	301.	301.

CUMULATIVE AREA = 5.72 SQ MI

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INTERPOLATED HYDROGRAPH AT 1F

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	17.	1		1230	151	3785.	1		1845	226	23.
1		0005	2	0.	1		0620	77	17.	1		1235	152	3861.	1		1850	227	23.
1		0010	3	0.	1		0625	78	17.	1		1240	153	3692.	1		1855	228	22.
1		0015	4	0.	1		0630	79	17.	1		1245	154	3301.	1		1900	229	22.
1		0020	5	0.	1		0635	80	18.	1		1250	155	2986.	1		1905	230	22.
1		0025	6	0.	1		0640	81	18.	1		1255	156	2684.	1		1910	231	21.
1		0030	7	0.	1		0645	82	18.	1		1300	157	2379.	1		1915	232	21.
1		0035	8	0.	1		0650	83	18.	1		1305	158	2105.	1		1920	233	21.
1		0040	9	1.	1		0655	84	18.	1		1310	159	1877.	1		1925	234	21.
1		0045	10	1.	1		0700	85	18.	1		1315	160	1690.	1		1930	235	20.
1		0050	11	1.	1		0705	86	19.	1		1320	161	1500.	1		1935	236	20.
1		0055	12	2.	1		0710	87	19.	1		1325	162	1326.	1		1940	237	20.
1		0100	13	2.	1		0715	88	19.	1		1330	163	1172.	1		1945	238	20.
1		0105	14	2.	1		0720	89	19.	1		1335	164	1040.	1		1950	239	19.
1		0110	15	3.	1		0725	90	19.	1		1340	165	929.	1		1955	240	19.
1		0115	16	3.	1		0730	91	20.	1		1345	166	839.	1		2000	241	19.
1		0120	17	4.	1		0735	92	20.	1		1350	167	755.	1		2005	242	19.
1		0125	18	5.	1		0740	93	20.	1		1355	168	679.	1		2010	243	19.
1		0130	19	5.	1		0745	94	20.	1		1400	169	608.	1		2015	244	19.
1		0135	20	6.	1		0750	95	20.	1		1405	170	538.	1		2020	245	18.
1		0140	21	7.	1		0755	96	20.	1		1410	171	476.	1		2025	246	18.
1		0145	22	7.	1		0800	97	21.	1		1415	172	424.	1		2030	247	18.
1		0150	23	8.	1		0805	98	21.	1		1420	173	382.	1		2035	248	18.
1		0155	24	8.	1		0810	99	21.	1		1425	174	337.	1		2040	249	18.
1		0200	25	9.	1		0815	100	21.	1		1430	175	300.	1		2045	250	18.
1		0205	26	9.	1		0820	101	22.	1		1435	176	274.	1		2050	251	17.
1		0210	27	10.	1		0825	102	22.	1		1440	177	254.	1		2055	252	17.
1		0215	28	10.	1		0830	103	22.	1		1445	178	237.	1		2100	253	17.
1		0220	29	10.	1		0835	104	23.	1		1450	179	219.	1		2105	254	17.
1		0225	30	11.	1		0840	105	23.	1		1455	180	209.	1		2110	255	17.

```
  1   0230   31      11.  *   1   0845  106      23.  *   1   1500  181     201.  *   1   2115  256      17.
  1   0235   32      11.  *   1   0850  107      24.  *   1   1505  182     193.  *   1   2120  257      16.
  1   0240   33      11.  *   1   0855  108      24.  *   1   1510  183     185.  *   1   2125  258      16.
  1   0245   34      11.  *   1   0900  109      24.  *   1   1515  184     177.  *   1   2130  259      16.
  1   0250   35      12.  *   1   0905  110      25.  *   1   1520  185     168.  *   1   2135  260      16.
  1   0255   36      12.  *   1   0910  111      25.  *   1   1525  186     153.  *   1   2140  261      16.
  1   0300   37      12.  *   1   0915  112      25.  *   1   1530  187     138.  *   1   2145  262      16.
  1   0305   38      12.  *   1   0920  113      26.  *   1   1535  188     123.  *   1   2150  263      16.
  1   0310   39      12.  *   1   0925  114      26.  *   1   1540  189     108.  *   1   2155  264      15.
  1   0315   40      13.  *   1   0930  115      27.  *   1   1545  190      93.  *   1   2200  265      15.
  1   0320   41      13.  *   1   0935  116      27.  *   1   1550  191      78.  *   1   2205  266      15.
  1   0325   42      13.  *   1   0940  117      28.  *   1   1555  192      72.  *   1   2210  267      15.
  1   0330   43      13.  *   1   0945  118      28.  *   1   1600  193      66.  *   1   2215  268      15.
  1   0335   44      13.  *   1   0950  119      29.  *   1   1605  194      60.  *   1   2220  269      15.
  1   0340   45      13.  *   1   0955  120      29.  *   1   1610  195      56.  *   1   2225  270      15.
  1   0345   46      14.  *   1   1000  121      30.  *   1   1615  196      51.  *   1   2230  271      15.
  1   0350   47      14.  *   1   1005  122      30.  *   1   1620  197      48.  *   1   2235  272      15.
  1   0355   48      14.  *   1   1010  123      31.  *   1   1625  198      45.  *   1   2240  273      15.
  1   0400   49      14.  *   1   1015  124      31.  *   1   1630  199      42.  *   1   2245  274      15.
  1   0405   50      14.  *   1   1020  125      32.  *   1   1635  200      40.  *   1   2250  275      15.
  1   0410   51      14.  *   1   1025  126      33.  *   1   1640  201      38.  *   1   2255  276      14.
  1   0415   52      14.  *   1   1030  127      33.  *   1   1645  202      37.  *   1   2300  277      14.
  1   0420   53      14.  *   1   1035  128      34.  *   1   1650  203      35.  *   1   2305  278      14.
  1   0425   54      14.  *   1   1040  129      35.  *   1   1655  204      34.  *   1   2310  279      14.
  1   0430   55      14.  *   1   1045  130      36.  *   1   1700  205      33.  *   1   2315  280      14.
  1   0435   56      15.  *   1   1050  131      37.  *   1   1705  206      32.  *   1   2320  281      14.
  1   0440   57      15.  *   1   1055  132      37.  *   1   1710  207      31.  *   1   2325  282      14.
  1   0445   58      15.  *   1   1100  133      38.  *   1   1715  208      30.  *   1   2330  283      14.
  1   0450   59      15.  *   1   1105  134      40.  *   1   1720  209      30.  *   1   2335  284      14.
  1   0455   60      15.  *   1   1110  135      41.  *   1   1725  210      29.  *   1   2340  285      13.
  1   0500   61      15.  *   1   1115  136      42.  *   1   1730  211      28.  *   1   2345  286      13.
  1   0505   62      15.  *   1   1120  137      44.  *   1   1735  212      28.  *   1   2350  287      13.
  1   0510   63      15.  *   1   1125  138      46.  *   1   1740  213      28.  *   1   2355  288      13.
  1   0515   64      16.  *   1   1130  139      47.  *   1   1745  214      27.  *   2   0000  289      13.
  1   0520   65      16.  *   1   1135  140      86.  *   1   1750  215      27.  *   2   0005  290      13.
  1   0525   66      16.  *   1   1140  141     126.  *   1   1755  216      26.  *   2   0010  291      13.
  1   0530   67      16.  *   1   1145  142     215.  *   1   1800  217      26.  *   2   0015  292      13.
  1   0535   68      16.  *   1   1150  143     367.  *   1   1805  218      26.  *   2   0020  293      13.
  1   0540   69      16.  *   1   1155  144     585.  *   1   1810  219      25.  *   2   0025  294      12.
  1   0545   70      16.  *   1   1200  145     856.  *   1   1815  220      25.  *   2   0030  295      12.
  1   0550   71      16.  *   1   1205  146    1153.  *   1   1820  221      25.  *   2   0035  296      12.
  1   0555   72      16.  *   1   1210  147    1612.  *   1   1825  222      24.  *   2   0040  297      12.
  1   0600   73      17.  *   1   1215  148    2320.  *   1   1830  223      24.  *   2   0045  298      12.
  1   0605   74      17.  *   1   1220  149    2981.  *   1   1835  224      24.  *   2   0050  299      11.
  1   0610   75      17.  *   1   1225  150    3496.  *   1   1840  225      23.  *   2   0055  300      11.
                          *                           *                           *
***************************************************************************************************************

 PEAK FLOW    TIME                            MAXIMUM AVERAGE FLOW
   (CFS)      (HR)                   6-HR       24-HR       72-HR     24.92-HR
   3861.     12.58        (CFS)      794.        212.        204.         204.
                       (INCHES)     1.291       1.379       1.380        1.380
                        (AC-FT)      394.        421.        421.         421.

                     CUMULATIVE AREA =     5.72 SQ MI



*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***
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         **************
         *            *
KK       *    1F-2F   *       Routing thru F3
         *            *
         **************

310 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          2  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL          0.  HYDROGRAPH PLOT SCALE
                     IPNCH          0  PUNCH COMPUTED HYDROGRAPH
                      IOUT         22  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


               HYDROGRAPH ROUTING DATA

311 RS          STORAGE ROUTING
                     NSTPS          4  NUMBER OF SUBREACHES
                      ITYP       FLOW  TYPE OF INITIAL CONDITION
                     RSVRIC        .00  INITIAL CONDITION
                         X         .00 WORKING R AND D COEFFICIENT

312 RC          NORMAL DEPTH CHANNEL
                       ANL       .050  LEFT OVERBANK N-VALUE
                      ANCH       .047  MAIN CHANNEL N-VALUE
                       ANR       .048  RIGHT OVERBANK N-VALUE
                     RLNTH      6680.  REACH LENGTH
                       SEL      .0126  ENERGY SLOPE
                     ELMAX         .0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                    CROSS-SECTION DATA
                          --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
314 RY       ELEVATION     16.00     15.00     13.00     10.00     10.00     12.00     14.00     16.00
313 RX       DISTANCE        .00     70.00    145.00    175.00    192.00    219.00    289.00    359.00

                                              ***

                                    COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

          STORAGE        .00      1.00      2.37      4.09      6.17      8.61     11.41     14.64     18.54     23.13
          OUTFLOW        .00      9.65     33.78     73.07    129.27    204.18    299.63    427.60    587.96    780.82
        ELEVATION      10.00     10.32     10.63     10.95     11.26     11.58     11.89     12.21     12.53     12.84

          STORAGE      28.46     34.85     42.35     50.95     60.67     71.49     83.43     96.80    111.77    128.36
          OUTFLOW    1022.89   1322.87   1676.83   2091.34   2572.33   3125.32   3751.87   4448.89   5244.99   6146.93
        ELEVATION      13.16     13.47     13.79     14.11     14.42     14.74     15.05     15.37     15.68     16.00

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

                     HYDROGRAPH AT STATION    1F-2F
                    TRANSPOSITION AREA       .0 SQ MI

PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
  (CFS)       (HR)                 6-HR       24-HR       72-HR     24.92-HR
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3772.	12.83	(CFS)	823.	219.	211.	211.
		(INCHES)	1.338	1.425	1.425	1.425
		(AC-FT)	408.	435.	435.	435.

STORAGE	TIME		MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)		6-HR	24-HR	72-HR	24.92-HR
21.	12.83		5.	2.	2.	2.

PEAK STAGE	TIME		MAXIMUM AVERAGE STAGE			
(FEET)	(HR)		6-HR	24-HR	72-HR	24.92-HR
15.06	12.83		12.22	10.86	10.83	10.83

CUMULATIVE AREA = 5.72 SQ MI

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HYDROGRAPH AT STATION 1F-2F
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
3664.	12.83	(CFS)	801.	213.	206.	206.
		(INCHES)	1.302	1.388	1.388	1.388
		(AC-FT)	397.	423.	423.	423.

PEAK STORAGE	TIME		MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)		6-HR	24-HR	72-HR	24.92-HR
20.	12.83		5.	2.	2.	2.

K STAGE	TIME		MAXIMUM AVERAGE STAGE			
(FEET)	(HR)		6-HR	24-HR	72-HR	24.92-HR
15.01	12.83		12.20	10.85	10.82	10.82

CUMULATIVE AREA = 5.72 SQ MI

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HYDROGRAPH AT STATION 1F-2F
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
3486.	12.83	(CFS)	765.	204.	196.	196.
		(INCHES)	1.244	1.326	1.326	1.326
		(AC-FT)	379.	405.	405.	405.

PEAK STORAGE	TIME		MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)		6-HR	24-HR	72-HR	24.92-HR
20.	12.83		5.	2.	1.	1.

PEAK STAGE	TIME		MAXIMUM AVERAGE STAGE			
(FEET)	(HR)		6-HR	24-HR	72-HR	24.92-HR
14.92	12.83		12.16	10.84	10.81	10.81

CUMULATIVE AREA = 5.72 SQ MI

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

HYDROGRAPH AT STATION 1F-2F
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
3086.	12.83	(CFS)	684.	183.	176.	176.
		(INCHES)	1.111	1.188	1.188	1.188
		(AC-FT)	339.	362.	362.	362.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
18.	12.83	5.	1.	1.	1.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
14.71	12.83	12.08	10.80	10.77	10.77

CUMULATIVE AREA = 5.72 SQ MI

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

HYDROGRAPH AT STATION 1F-2F
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2907.	12.83	(CFS)	647.	173.	167.	167.
		(INCHES)	1.051	1.125	1.125	1.125
		(AC-FT)	321.	343.	343.	343.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
17.	12.83	5.	1.	1.	1.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
14.61	12.83	12.03	10.79	10.76	10.76

CUMULATIVE AREA = 5.72 SQ MI

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HYDROGRAPH AT STATION 1F-2F
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2493.	12.83	(CFS)	563.	151.	146.	146.
		(INCHES)	.916	.984	.984	.984
		(AC-FT)	279.	300.	300.	300.

PEAK STORAGE -FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
15.	12.83	4.	1.	1.	1.

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

14.37 12.83 11.93 10.75 10.72 10.72

CUMULATIVE AREA = 5.72 SQ MI

INTERPOLATED HYDROGRAPH AT 1F-2F

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	16.	1		1230	151	2339.	1		1845	226	26.
1		0005	2	0.	1		0620	77	16.	1		1235	152	2919.	1		1850	227	25.
1		0010	3	0.	1		0625	78	16.	1		1240	153	3366.	1		1855	228	25.
1		0015	4	0.	1		0630	79	16.	1		1245	154	3607.	1		1900	229	25.
1		0020	5	0.	1		0635	80	16.	1		1250	155	3629.	1		1905	230	24.
1		0025	6	0.	1		0640	81	17.	1		1255	156	3474.	1		1910	231	24.
1		0030	7	0.	1		0645	82	17.	1		1300	157	3218.	1		1915	232	24.
1		0035	8	0.	1		0650	83	17.	1		1305	158	2931.	1		1920	233	23.
1		0040	9	0.	1		0655	84	17.	1		1310	159	2644.	1		1925	234	23.
1		0045	10	0.	1		0700	85	17.	1		1315	160	2374.	1		1930	235	23.
1		0050	11	0.	1		0705	86	17.	1		1320	161	2127.	1		1935	236	22.
1		0055	12	0.	1		0710	87	17.	1		1325	162	1907.	1		1940	237	22.
1		0100	13	0.	1		0715	88	18.	1		1330	163	1707.	1		1945	238	22.
1		0105	14	0.	1		0720	89	18.	1		1335	164	1526.	1		1950	239	22.
1		0110	15	0.	1		0725	90	18.	1		1340	165	1358.	1		1955	240	21.
1		0115	16	0.	1		0730	91	18.	1		1345	166	1208.	1		2000	241	21.
1		0120	17	0.	1		0735	92	18.	1		1350	167	1077.	1		2005	242	21.
1		0125	18	0.	1		0740	93	18.	1		1355	168	966.	1		2010	243	20.
1		0130	19	1.	1		0745	94	19.	1		1400	169	870.	1		2015	244	20.
1		0135	20	1.	1		0750	95	19.	1		1405	170	786.	1		2020	245	20.
1		0140	21	1.	1		0755	96	19.	1		1410	171	713.	1		2025	246	20.
1		0145	22	1.	1		0800	97	19.	1		1415	172	643.	1		2030	247	20.
1		0150	23	1.	1		0805	98	19.	1		1420	173	577.	1		2035	248	19.
1		0155	24	2.	1		0810	99	19.	1		1425	174	517.	1		2040	249	19.
1		0200	25	2.	1		0815	100	20.	1		1430	175	463.	1		2045	250	19.
1		0205	26	2.	1		0820	101	20.	1		1435	176	414.	1		2050	251	19.
1		0210	27	3.	1		0825	102	20.	1		1440	177	372.	1		2055	252	19.
1		0215	28	3.	1		0830	103	20.	1		1445	178	335.	1		2100	253	18.
1		0220	29	3.	1		0835	104	20.	1		1450	179	305.	1		2105	254	18.
1		0225	30	4.	1		0840	105	21.	1		1455	180	283.	1		2110	255	18.
1		0230	31	4.	1		0845	106	21.	1		1500	181	263.	1		2115	256	18.
1		0235	32	5.	1		0850	107	21.	1		1505	182	246.	1		2120	257	18.
1		0240	33	5.	1		0855	108	21.	1		1510	183	230.	1		2125	258	18.
1		0245	34	6.	1		0900	109	22.	1		1515	184	218.	1		2130	259	17.
1		0250	35	6.	1		0905	110	22.	1		1520	185	207.	1		2135	260	17.
1		0255	36	7.	1		0910	111	22.	1		1525	186	199.	1		2140	261	17.
1		0300	37	7.	1		0915	112	23.	1		1530	187	190.	1		2145	262	17.
1		0305	38	7.	1		0920	113	23.	1		1535	188	181.	1		2150	263	17.
1		0310	39	8.	1		0925	114	23.	1		1540	189	171.	1		2155	264	17.
1		0315	40	8.	1		0930	115	24.	1		1545	190	159.	1		2200	265	17.
1		0320	41	9.	1		0935	116	24.	1		1550	191	146.	1		2205	266	16.
1		0325	42	9.	1		0940	117	24.	1		1555	192	134.	1		2210	267	16.
1		0330	43	10.	1		0945	118	25.	1		1600	193	122.	1		2215	268	16.
1		0335	44	11.	1		0950	119	25.	1		1605	194	111.	1		2220	269	16.
1		0340	45	11.	1		0955	120	25.	1		1610	195	100.	1		2225	270	16.
1		0345	46	12.	1		1000	121	26.	1		1615	196	90.	1		2230	271	16.
1		0350	47	12.	1		1005	122	26.	1		1620	197	81.	1		2235	272	16.

1	0355	48	12.	*	1	1010	123	27.	*	1	1625	198	74.	*	1	2240	273	15.
1	0400	49	13.	*	1	1015	124	27.	*	1	1630	199	69.	*	1	2245	274	15.
1	0405	50	13.	*	1	1020	125	28.	*	1	1635	200	64.	*	1	2250	275	15.
1	0410	51	13.	*	1	1025	126	28.	*	1	1640	201	60.	*	1	2255	276	15.
1	0415	52	13.	*	1	1030	127	29.	*	1	1645	202	55.	*	1	2300	277	15.
1	0420	53	13.	*	1	1035	128	29.	*	1	1650	203	52.	*	1	2305	278	15.
1	0425	54	13.	*	1	1040	129	30.	*	1	1655	204	48.	*	1	2310	279	15.
1	0430	55	14.	*	1	1045	130	30.	*	1	1700	205	45.	*	1	2315	280	15.
1	0435	56	14.	*	1	1050	131	31.	*	1	1705	206	43.	*	1	2320	281	15.
1	0440	57	14.	*	1	1055	132	31.	*	1	1710	207	41.	*	1	2325	282	15.
1	0445	58	14.	*	1	1100	133	32.	*	1	1715	208	39.	*	1	2330	283	15.
1	0450	59	14.	*	1	1105	134	33.	*	1	1720	209	37.	*	1	2335	284	14.
1	0455	60	14.	*	1	1110	135	34.	*	1	1725	210	36.	*	1	2340	285	14.
1	0500	61	14.	*	1	1115	136	35.	*	1	1730	211	34.	*	1	2345	286	14.
1	0505	62	14.	*	1	1120	137	36.	*	1	1735	212	34.	*	1	2350	287	14.
1	0510	63	14.	*	1	1125	138	37.	*	1	1740	213	33.	*	1	2355	288	14.
1	0515	64	15.	*	1	1130	139	38.	*	1	1745	214	32.	*	2	0000	289	14.
1	0520	65	15.	*	1	1135	140	40.	*	1	1750	215	31.	*	2	0005	290	14.
1	0525	66	15.	*	1	1140	141	42.	*	1	1755	216	31.	*	2	0010	291	14.
1	0530	67	15.	*	1	1145	142	47.	*	1	1800	217	30.	*	2	0015	292	14.
1	0535	68	15.	*	1	1150	143	58.	*	1	1805	218	30.	*	2	0020	293	13.
1	0540	69	15.	*	1	1155	144	85.	*	1	1810	219	29.	*	2	0025	294	13.
1	0545	70	15.	*	1	1200	145	149.	*	1	1815	220	28.	*	2	0030	295	13.
1	0550	71	15.	*	1	1205	146	280.	*	1	1820	221	28.	*	2	0035	296	13.
1	0555	72	16.	*	1	1210	147	504.	*	1	1825	222	27.	*	2	0040	297	13.
1	0600	73	16.	*	1	1215	148	807.	*	1	1830	223	27.	*	2	0045	298	13.
1	0605	74	16.	*	1	1220	149	1224.	*	1	1835	224	27.	*	2	0050	299	13.
1	0610	75	16.	*	1	1225	150	1744.	*	1	1840	225	26.	*	2	0055	300	13.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
3629.	12.83	(CFS)	794.	212.	204.	204.
		(INCHES)	1.291	1.376	1.376	1.376
		(AC-FT)	394.	420.	420.	420.

CUMULATIVE AREA = 5.72 SQ MI

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          *             *
315 KK    *        F3   *
          *             *
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BASIN F3

THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN

L= 1.3 Lca= .6 S= 66.0 Kn= .060 LAG= 36.0

PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN

KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH

IOUT	22	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

SUBBASIN RUNOFF DATA

321 BA SUBBASIN CHARACTERISTICS

TAREA	.37	SUBBASIN AREA

322 LG GREEN AND AMPT LOSS RATE

STRTL	.17	STARTING LOSS
DTH	.35	MOISTURE DEFICIT
PSIF	3.30	WETTING FRONT SUCTION
XKSAT	.82	HYDRAULIC CONDUCTIVITY
RTIMP	.00	PERCENT IMPERVIOUS AREA

321 UI INPUT UNITGRAPH, 21 ORDINATES, VOLUME = 1.01

35.0	62.0	142.0	187.0	227.0	287.0	418.0	377.0	296.0	240.0
191.0	146.0	81.0	59.0	45.0	35.0	13.0	11.0	11.0	11.0
11.0									

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HYDROGRAPH AT STATION F3
TRANSPOSITION AREA .0 SQ MI

TOTAL RAINFALL = 4.20, TOTAL LOSS = 3.36, TOTAL EXCESS = .84

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
259.	12.33	(CFS)	34.	8.	8.	8.
		(INCHES)	.848	.848	.848	.848
		(AC-FT)	17.	17.	17.	17.

CUMULATIVE AREA = .37 SQ MI

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HYDROGRAPH AT STATION F3
TRANSPOSITION AREA 5.0 SQ MI

TOTAL RAINFALL = 4.12, TOTAL LOSS = 3.31, TOTAL EXCESS = .81

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
248.	12.33	(CFS)	32.	8.	8.	8.
		(INCHES)	.812	.812	.812	.812
		(AC-FT)	16.	16.	16.	16.

CUMULATIVE AREA = .37 SQ MI

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HYDROGRAPH AT STATION F3

TRANSPOSITION AREA 10.0 SQ MI

TOTAL RAINFALL = 3.99, TOTAL LOSS = 3.24, TOTAL EXCESS = .75

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
231.	12.33	(CFS)	30.	7.	7.	7.
		(INCHES)	.754	.754	.754	.754
		(AC-FT)	15.	15.	15.	15.

CUMULATIVE AREA = .37 SQ MI

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HYDROGRAPH AT STATION F3
TRANSPOSITION AREA 50.0 SQ MI

TOTAL RAINFALL = 3.70, TOTAL LOSS = 3.08, TOTAL EXCESS = .62

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
190.	12.33	(CFS)	25.	6.	6.	6.
		(INCHES)	.621	.621	.621	.621
		(AC-FT)	12.	12.	12.	12.

CUMULATIVE AREA = .37 SQ MI

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HYDROGRAPH AT STATION F3
TRANSPOSITION AREA 100.0 SQ MI

TOTAL RAINFALL = 3.57, TOTAL LOSS = 3.01, TOTAL EXCESS = .56

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
173.	12.42	(CFS)	22.	6.	5.	5.
		(INCHES)	.561	.561	.561	.561
		(AC-FT)	11.	11.	11.	11.

CUMULATIVE AREA = .37 SQ MI

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HYDROGRAPH AT STATION F3
TRANSPOSITION AREA 500.0 SQ MI

TOTAL RAINFALL = 3.28, TOTAL LOSS = 2.86, TOTAL EXCESS = .42

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
133.	12.42	(CFS)	17.	4.	4.	4.
		(INCHES)	.426	.426	.426	.426
		(AC-FT)	8.	8.	8.	8.

CUMULATIVE AREA = .37 SQ MI

INTERPOLATED HYDROGRAPH AT F3

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	0.	1		1230	151	234.	1		1845	226	0.
1		0005	2	0.	1		0620	77	0.	1		1235	152	187.	1		1850	227	0.
1		0010	3	0.	1		0625	78	0.	1		1240	153	143.	1		1855	228	0.
1		0015	4	0.	1		0630	79	0.	1		1245	154	108.	1		1900	229	0.
1		0020	5	0.	1		0635	80	0.	1		1250	155	79.	1		1905	230	0.
1		0025	6	0.	1		0640	81	0.	1		1255	156	54.	1		1910	231	0.
1		0030	7	0.	1		0645	82	0.	1		1300	157	35.	1		1915	232	0.
1		0035	8	0.	1		0650	83	0.	1		1305	158	25.	1		1920	233	0.
1		0040	9	0.	1		0655	84	0.	1		1310	159	18.	1		1925	234	0.
1		0045	10	0.	1		0700	85	0.	1		1315	160	13.	1		1930	235	0.
1		0050	11	0.	1		0705	86	0.	1		1320	161	8.	1		1935	236	0.
1		0055	12	0.	1		0710	87	0.	1		1325	162	6.	1		1940	237	0.
1		0100	13	0.	1		0715	88	0.	1		1330	163	5.	1		1945	238	0.
1		0105	14	0.	1		0720	89	0.	1		1335	164	3.	1		1950	239	0.
1		0110	15	0.	1		0725	90	0.	1		1340	165	2.	1		1955	240	0.
1		0115	16	0.	1		0730	91	0.	1		1345	166	0.	1		2000	241	0.
1		0120	17	0.	1		0735	92	0.	1		1350	167	0.	1		2005	242	0.
1		0125	18	0.	1		0740	93	0.	1		1355	168	0.	1		2010	243	0.
1		0130	19	0.	1		0745	94	0.	1		1400	169	0.	1		2015	244	0.
1		0135	20	0.	1		0750	95	0.	1		1405	170	0.	1		2020	245	0.
1		0140	21	0.	1		0755	96	0.	1		1410	171	0.	1		2025	246	0.
1		0145	22	0.	1		0800	97	0.	1		1415	172	0.	1		2030	247	0.
1		0150	23	0.	1		0805	98	0.	1		1420	173	0.	1		2035	248	0.
1		0155	24	0.	1		0810	99	0.	1		1425	174	0.	1		2040	249	0.
1		0200	25	0.	1		0815	100	0.	1		1430	175	0.	1		2045	250	0.
1		0205	26	0.	1		0820	101	0.	1		1435	176	0.	1		2050	251	0.
1		0210	27	0.	1		0825	102	0.	1		1440	177	0.	1		2055	252	0.
1		0215	28	0.	1		0830	103	0.	1		1445	178	0.	1		2100	253	0.
1		0220	29	0.	1		0835	104	0.	1		1450	179	0.	1		2105	254	0.
1		0225	30	0.	1		0840	105	0.	1		1455	180	0.	1		2110	255	0.
1		0230	31	0.	1		0845	106	0.	1		1500	181	0.	1		2115	256	0.
1		0235	32	0.	1		0850	107	0.	1		1505	182	0.	1		2120	257	0.
1		0240	33	0.	1		0855	108	0.	1		1510	183	0.	1		2125	258	0.
1		0245	34	0.	1		0900	109	0.	1		1515	184	0.	1		2130	259	0.
1		0250	35	0.	1		0905	110	0.	1		1520	185	0.	1		2135	260	0.
1		0255	36	0.	1		0910	111	0.	1		1525	186	0.	1		2140	261	0.
1		0300	37	0.	1		0915	112	0.	1		1530	187	0.	1		2145	262	0.
1		0305	38	0.	1		0920	113	0.	1		1535	188	0.	1		2150	263	0.
1		0310	39	0.	1		0925	114	0.	1		1540	189	0.	1		2155	264	0.
1		0315	40	0.	1		0930	115	0.	1		1545	190	0.	1		2200	265	0.
1		0320	41	0.	1		0935	116	0.	1		1550	191	0.	1		2205	266	0.
1		0325	42	0.	1		0940	117	0.	1		1555	192	0.	1		2210	267	0.
1		0330	43	0.	1		0945	118	0.	1		1600	193	0.	1		2215	268	0.
1		0335	44	0.	1		0950	119	0.	1		1605	194	0.	1		2220	269	0.
1		0340	45	0.	1		0955	120	0.	1		1610	195	0.	1		2225	270	0.
1		0345	46	0.	1		1000	121	0.	1		1615	196	0.	1		2230	271	0.
1		0350	47	0.	1		1005	122	0.	1		1620	197	0.	1		2235	272	0.
1		0355	48	0.	1		1010	123	0.	1		1625	198	0.	1		2240	273	0.
1		0400	49	0.	1		1015	124	0.	1		1630	199	0.	1		2245	274	0.
1		0405	50	0.	1		1020	125	0.	1		1635	200	0.	1		2250	275	0.
1		0410	51	0.	1		1025	126	0.	1		1640	201	0.	1		2255	276	0.

1	0415	52	0.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	0.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	0.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	0.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	0.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	0.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	0.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	0.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	0.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	0.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	0.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	0.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	0.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	0.	*	1	1135	140	4.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	0.	*	1	1140	141	12.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	0.	*	1	1145	142	30.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	0.	*	1	1150	143	54.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	0.	*	1	1155	144	85.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	0.	*	1	1200	145	124.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	0.	*	1	1205	146	175.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	0.	*	1	1210	147	219.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	0.	*	1	1215	148	243.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	0.	*	1	1220	149	253.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	0.	*	1	1225	150	251.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
253.	12.33	(CFS)	33.	8.	8.	8.
		(INCHES)	.827	.827	.827	.827
		(AC-FT)	16.	16.	16.	16.

CUMULATIVE AREA = .37 SQ MI

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          **************
          *            *
327 KK    *   RTV-2F   *      Retrieve diversion
          *            *
          **************
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328 DR RETRIEVE DIVERSION HYDROGRAPH
ISTAD 1E-D DIVERSION HYDROGRAPH IDENTIFICATION

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

HYDROGRAPH AT STATION RTV-2F
TRANSPOSITION AREA .0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.

	(INCHES)	.000	.000	.000	.000
	(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 2.97 SQ MI

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

HYDROGRAPH AT STATION RTV-2F
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 2.97 SQ MI

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

HYDROGRAPH AT STATION RTV-2F
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 2.97 SQ MI

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

HYDROGRAPH AT STATION RTV-2F
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 2.97 SQ MI

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

HYDROGRAPH AT STATION RTV-2F
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 2.97 SQ MI

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

HYDROGRAPH AT STATION RTV-2F
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 2.97 SQ MI

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INTERPOLATED HYDROGRAPH AT RTV-2F

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

1	0300	37	0.	*	1	0915	112	0.	*	1	1530	187	0.	*	1	2145	262	0.
1	0305	38	0.	*	1	0920	113	0.	*	1	1535	188	0.	*	1	2150	263	0.
1	0310	39	0.	*	1	0925	114	0.	*	1	1540	189	0.	*	1	2155	264	0.
1	0315	40	0.	*	1	0930	115	0.	*	1	1545	190	0.	*	1	2200	265	0.
1	0320	41	0.	*	1	0935	116	0.	*	1	1550	191	0.	*	1	2205	266	0.
1	0325	42	0.	*	1	0940	117	0.	*	1	1555	192	0.	*	1	2210	267	0.
1	0330	43	0.	*	1	0945	118	0.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	0.	*	1	0950	119	0.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	0.	*	1	0955	120	0.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	0.	*	1	1000	121	0.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	0.	*	1	1005	122	0.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	0.	*	1	1010	123	0.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	0.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	0.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	0.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	0.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	0.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	0.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	0.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	0.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	0.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	0.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	0.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	0.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	0.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	0.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	0.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	0.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	0.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	0.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	0.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	0.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	0.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	0.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	0.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	0.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	0.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	0.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	0.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 2.97 SQ MI

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          *            *
329 KK    *        2F  *
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Combining F1+F2 & F3 & 1E-D

331 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

332 HC HYDROGRAPH COMBINATION

ICOMP 3 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 2F
TRANSPOSITION AREA .0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
3868.	12.75	(CFS)	857.	228.	219.	219.
		(INCHES)	1.308	1.390	1.390	1.390
		(AC-FT)	425.	452.	452.	452.

CUMULATIVE AREA = 6.09 SQ MI

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HYDROGRAPH AT STATION 2F
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
3750.	12.75	(CFS)	834.	222.	213.	213.
		(INCHES)	1.273	1.353	1.353	1.353
		(AC-FT)	413.	439.	439.	439.

CUMULATIVE AREA = 6.09 SQ MI

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HYDROGRAPH AT STATION 2F
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
3558.	12.83	(CFS)	795.	211.	204.	204.
		(INCHES)	1.214	1.292	1.292	1.292
		(AC-FT)	394.	419.	419.	419.

CUMULATIVE AREA = 6.09 SQ MI

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

HYDROGRAPH AT STATION 2F
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
3147.	12.83	(CFS)	708.	189.	182.	182.
		(INCHES)	1.082	1.154	1.154	1.154
		(AC-FT)	351.	375.	375.	375.

CUMULATIVE AREA = 6.09 SQ MI

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

HYDROGRAPH AT STATION 2F
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2963.	12.83	(CFS)	669.	179.	172.	172.
		(INCHES)	1.022	1.091	1.091	1.091
		(AC-FT)	332.	354.	354.	354.

CUMULATIVE AREA = 6.09 SQ MI

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HYDROGRAPH AT STATION 2F
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2536.	12.83	(CFS)	580.	156.	150.	150.
		(INCHES)	.886	.950	.950	.950
		(AC-FT)	288.	308.	308.	308.

CUMULATIVE AREA = 6.09 SQ MI

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INTERPOLATED HYDROGRAPH AT 2F

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	16.	*	1		1230	151	2551.	*	1		1845	226	26.
1		0005	2	0.	*	1		0620	77	16.	*	1		1235	152	3084.	*	1		1850	227	25.
1		0010	3	0.	*	1		0625	78	16.	*	1		1240	153	3487.	*	1		1855	228	25.
1		0015	4	0.	*	1		0630	79	16.	*	1		1245	154	3694.	*	1		1900	229	25.
1		0020	5	0.	*	1		0635	80	16.	*	1		1250	155	3689.	*	1		1905	230	24.
1		0025	6	0.	*	1		0640	81	17.	*	1		1255	156	3512.	*	1		1910	231	24.
1		0030	7	0.	*	1		0645	82	17.	*	1		1300	157	3239.	*	1		1915	232	24.
1		0035	8	0.	*	1		0650	83	17.	*	1		1305	158	2944.	*	1		1920	233	23.
1		0040	9	0.	*	1		0655	84	17.	*	1		1310	159	2651.	*	1		1925	234	23.

1	0045	10	0.	*	1	0700	85	17.	*	1	1315	160	2378.	*	1	1930	235	23.
1	0050	11	0.	*	1	0705	86	17.	*	1	1320	161	2127.	*	1	1935	236	22.
1	0055	12	0.	*	1	0710	87	17.	*	1	1325	162	1906.	*	1	1940	237	22.
1	0100	13	0.	*	1	0715	88	18.	*	1	1330	163	1706.	*	1	1945	238	22.
1	0105	14	0.	*	1	0720	89	18.	*	1	1335	164	1523.	*	1	1950	239	21.
1	0110	15	0.	*	1	0725	90	18.	*	1	1340	165	1355.	*	1	1955	240	21.
1	0115	16	0.	*	1	0730	91	18.	*	1	1345	166	1203.	*	1	2000	241	21.
1	0120	17	0.	*	1	0735	92	18.	*	1	1350	167	1073.	*	1	2005	242	21.
1	0125	18	0.	*	1	0740	93	18.	*	1	1355	168	963.	*	1	2010	243	20.
1	0130	19	1.	*	1	0745	94	19.	*	1	1400	169	867.	*	1	2015	244	20.
1	0135	20	1.	*	1	0750	95	19.	*	1	1405	170	783.	*	1	2020	245	20.
1	0140	21	1.	*	1	0755	96	19.	*	1	1410	171	711.	*	1	2025	246	20.
1	0145	22	1.	*	1	0800	97	19.	*	1	1415	172	641.	*	1	2030	247	19.
1	0150	23	1.	*	1	0805	98	19.	*	1	1420	173	575.	*	1	2035	248	19.
1	0155	24	2.	*	1	0810	99	19.	*	1	1425	174	515.	*	1	2040	249	19.
1	0200	25	2.	*	1	0815	100	20.	*	1	1430	175	461.	*	1	2045	250	19.
1	0205	26	2.	*	1	0820	101	20.	*	1	1435	176	413.	*	1	2050	251	19.
1	0210	27	3.	*	1	0825	102	20.	*	1	1440	177	371.	*	1	2055	252	19.
1	0215	28	3.	*	1	0830	103	20.	*	1	1445	178	334.	*	1	2100	253	18.
1	0220	29	3.	*	1	0835	104	20.	*	1	1450	179	305.	*	1	2105	254	18.
1	0225	30	4.	*	1	0840	105	21.	*	1	1455	180	282.	*	1	2110	255	18.
1	0230	31	4.	*	1	0845	106	21.	*	1	1500	181	263.	*	1	2115	256	18.
1	0235	32	5.	*	1	0850	107	21.	*	1	1505	182	245.	*	1	2120	257	18.
1	0240	33	5.	*	1	0855	108	21.	*	1	1510	183	230.	*	1	2125	258	18.
1	0245	34	6.	*	1	0900	109	22.	*	1	1515	184	217.	*	1	2130	259	17.
1	0250	35	6.	*	1	0905	110	22.	*	1	1520	185	207.	*	1	2135	260	17.
1	0255	36	6.	*	1	0910	111	22.	*	1	1525	186	198.	*	1	2140	261	17.
1	0300	37	7.	*	1	0915	112	22.	*	1	1530	187	190.	*	1	2145	262	17.
1	0305	38	7.	*	1	0920	113	23.	*	1	1535	188	180.	*	1	2150	263	17.
1	0310	39	8.	*	1	0925	114	23.	*	1	1540	189	170.	*	1	2155	264	17.
1	0315	40	8.	*	1	0930	115	23.	*	1	1545	190	158.	*	1	2200	265	16.
1	0320	41	9.	*	1	0935	116	24.	*	1	1550	191	146.	*	1	2205	266	16.
1	0325	42	9.	*	1	0940	117	24.	*	1	1555	192	133.	*	1	2210	267	16.
1	0330	43	10.	*	1	0945	118	25.	*	1	1600	193	122.	*	1	2215	268	16.
1	0335	44	11.	*	1	0950	119	25.	*	1	1605	194	111.	*	1	2220	269	16.
1	0340	45	11.	*	1	0955	120	25.	*	1	1610	195	100.	*	1	2225	270	16.
1	0345	46	12.	*	1	1000	121	26.	*	1	1615	196	90.	*	1	2230	271	16.
1	0350	47	12.	*	1	1005	122	26.	*	1	1620	197	81.	*	1	2235	272	16.
1	0355	48	12.	*	1	1010	123	27.	*	1	1625	198	74.	*	1	2240	273	15.
1	0400	49	13.	*	1	1015	124	27.	*	1	1630	199	69.	*	1	2245	274	15.
1	0405	50	13.	*	1	1020	125	28.	*	1	1635	200	64.	*	1	2250	275	15.
1	0410	51	13.	*	1	1025	126	28.	*	1	1640	201	59.	*	1	2255	276	15.
1	0415	52	13.	*	1	1030	127	29.	*	1	1645	202	55.	*	1	2300	277	15.
1	0420	53	13.	*	1	1035	128	29.	*	1	1650	203	51.	*	1	2305	278	15.
1	0425	54	13.	*	1	1040	129	30.	*	1	1655	204	48.	*	1	2310	279	15.
1	0430	55	14.	*	1	1045	130	30.	*	1	1700	205	45.	*	1	2315	280	15.
1	0435	56	14.	*	1	1050	131	31.	*	1	1705	206	43.	*	1	2320	281	15.
1	0440	57	14.	*	1	1055	132	31.	*	1	1710	207	40.	*	1	2325	282	15.
1	0445	58	14.	*	1	1100	133	32.	*	1	1715	208	38.	*	1	2330	283	15.
1	0450	59	14.	*	1	1105	134	33.	*	1	1720	209	37.	*	1	2335	284	14.
1	0455	60	14.	*	1	1110	135	34.	*	1	1725	210	35.	*	1	2340	285	14.
1	0500	61	14.	*	1	1115	136	35.	*	1	1730	211	34.	*	1	2345	286	14.
1	0505	62	14.	*	1	1120	137	36.	*	1	1735	212	33.	*	1	2350	287	14.
1	0510	63	14.	*	1	1125	138	37.	*	1	1740	213	33.	*	1	2355	288	14.
1	0515	64	15.	*	1	1130	139	38.	*	1	1745	214	32.	*	2	0000	289	14.
1	0520	65	15.	*	1	1135	140	44.	*	1	1750	215	31.	*	2	0005	290	14.
1	0525	66	15.	*	1	1140	141	53.	*	1	1755	216	31.	*	2	0010	291	14.
1	0530	67	15.	*	1	1145	142	75.	*	1	1800	217	30.	*	2	0015	292	14.
1	0535	68	15.	*	1	1150	143	109.	*	1	1805	218	29.	*	2	0020	293	13.
1	0540	69	15.	*	1	1155	144	165.	*	1	1810	219	29.	*	2	0025	294	13.

1	0545	70	15.	*	1	1200	145	267.	*	1	1815	220	28.	*	2	0030	295	13.
1	0550	71	15.	*	1	1205	146	446.	*	1	1820	221	28.	*	2	0035	296	13.
1	0555	72	15.	*	1	1210	147	711.	*	1	1825	222	27.	*	2	0040	297	13.
1	0600	73	16.	*	1	1215	148	1036.	*	1	1830	223	27.	*	2	0045	298	13.
	0605	74	16.	*	1	1220	149	1461.	*	1	1835	224	27.	*	2	0050	299	13.
1	0610	75	16.	*	1	1225	150	1975.	*	1	1840	225	26.	*	2	0055	300	13.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
3694.	12.75	(CFS)	823.	219.	211.	211.
		(INCHES)	1.256	1.335	1.335	1.335
		(AC-FT)	408.	434.	434.	434.

CUMULATIVE AREA = 6.09 SQ MI

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333 KK    *   DIV-2F   *      Divert 2F-D
          *            *
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DT DIVERSION
ISTAD 2F-D DIVERSION HYDROGRAPH IDENTIFICATION

DI	INFLOW	2559.00	2641.00	2737.00	2851.00	2990.00	3190.00	3346.00	3510.00	3681.00	3860.00
DQ	DIVERTED FLOW	.00	7.00	31.00	77.00	150.00	288.00	384.00	489.00	605.00	729.00

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DIVERSION HYDROGRAPH 2F-D
TRANSPOSITION AREA .0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
734.	12.75	(CFS)	50.	13.	12.	12.
		(INCHES)	.077	.077	.077	.077
		(AC-FT)	25.	25.	25.	25.

CUMULATIVE AREA = 6.09 SQ MI

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HYDROGRAPH AT STATION DIV-2F
TRANSPOSITION AREA .0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW

(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
3133.	12.75	(CFS)	807.	215.	207.	207.
		(INCHES)	1.232	1.314	1.314	1.314
		(AC-FT)	400.	427.	427.	427.

CUMULATIVE AREA = 6.09 SQ MI

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DIVERSION HYDROGRAPH 2F-D
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
653.	12.75	(CFS)	43.	11.	10.	10.
		(INCHES)	.066	.066	.066	.066
		(AC-FT)	21.	21.	21.	21.

CUMULATIVE AREA = 6.09 SQ MI

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HYDROGRAPH AT STATION DIV-2F
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
3097.	12.75	(CFS)	791.	211.	203.	203.
		(INCHES)	1.207	1.287	1.287	1.287
		(AC-FT)	392.	418.	418.	418.

CUMULATIVE AREA = 6.09 SQ MI

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DIVERSION HYDROGRAPH 2F-D
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
522.	12.83	(CFS)	32.	8.	8.	8.
		(INCHES)	.049	.049	.049	.049
		(AC-FT)	16.	16.	16.	16.

CUMULATIVE AREA = 6.09 SQ MI

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HYDROGRAPH AT STATION DIV-2F
TRANSPOSITION AREA 10.0 SQ MI

K FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
3037.	12.83	(CFS)	763.	204.	196.	196.
		(INCHES)	1.165	1.243	1.243	1.243
		(AC-FT)	378.	404.	404.	404.

CUMULATIVE AREA = 6.09 SQ MI

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DIVERSION HYDROGRAPH 2F-D
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
258.	12.83	(CFS)	12.	3.	3.	3.
		(INCHES)	.018	.018	.018	.018
		(AC-FT)	6.	6.	6.	6.

CUMULATIVE AREA = 6.09 SQ MI

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HYDROGRAPH AT STATION DIV-2F
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
2889.	12.83	(CFS)	697.	186.	179.	179.
		(INCHES)	1.064	1.136	1.136	1.136
		(AC-FT)	346.	369.	369.	369.

CUMULATIVE AREA = 6.09 SQ MI

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DIVERSION HYDROGRAPH 2F-D
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
136.	12.83	(CFS)	5.	1.	1.	1.
		(INCHES)	.008	.008	.008	.008
		(AC-FT)	2.	2.	2.	2.

CUMULATIVE AREA = 6.09 SQ MI

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HYDROGRAPH AT STATION DIV-2F
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
2827.	12.83	(CFS)	664.	177.	171.	171.
		(INCHES)	1.014	1.083	1.083	1.083
		(AC-FT)	329.	352.	352.	352.

CUMULATIVE AREA = 6.09 SQ MI

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DIVERSION HYDROGRAPH 2F-D
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 6.09 SQ MI

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HYDROGRAPH AT STATION DIV-2F
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2536.	12.83	(CFS)	580.	156.	150.	150.
		(INCHES)	.886	.950	.950	.950
		(AC-FT)	288.	308.	308.	308.

CUMULATIVE AREA = 6.09 SQ MI

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INTERPOLATED DIVERSION HYDROGRAPH AT 2F-D

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	0.	*	1		1230	151	2.	*	1		1845	226	0.
1		0005	2	0.	*	1		0620	77	0.	*	1		1235	152	217.	*	1		1850	227	0.
1		0010	3	0.	*	1		0625	78	0.	*	1		1240	153	475.	*	1		1855	228	0.
1		0015	4	0.	*	1		0630	79	0.	*	1		1245	154	615.	*	1		1900	229	0.
1		0020	5	0.	*	1		0635	80	0.	*	1		1250	155	611.	*	1		1905	230	0.
1		0025	6	0.	*	1		0640	81	0.	*	1		1255	156	491.	*	1		1910	231	0.
1		0030	7	0.	*	1		0645	82	0.	*	1		1300	157	317.	*	1		1915	232	0.
1		0035	8	0.	*	1		0650	83	0.	*	1		1305	158	126.	*	1		1920	233	0.
1		0040	9	0.	*	1		0655	84	0.	*	1		1310	159	13.	*	1		1925	234	0.
1		0045	10	0.	*	1		0700	85	0.	*	1		1315	160	0.	*	1		1930	235	0.
1		0050	11	0.	*	1		0705	86	0.	*	1		1320	161	0.	*	1		1935	236	0.
1		0055	12	0.	*	1		0710	87	0.	*	1		1325	162	0.	*	1		1940	237	0.
1		0100	13	0.	*	1		0715	88	0.	*	1		1330	163	0.	*	1		1945	238	0.
1		0105	14	0.	*	1		0720	89	0.	*	1		1335	164	0.	*	1		1950	239	0.
1		0110	15	0.	*	1		0725	90	0.	*	1		1340	165	0.	*	1		1955	240	0.
1		0115	16	0.	*	1		0730	91	0.	*	1		1345	166	0.	*	1		2000	241	0.
1		0120	17	0.	*	1		0735	92	0.	*	1		1350	167	0.	*	1		2005	242	0.
1		0125	18	0.	*	1		0740	93	0.	*	1		1355	168	0.	*	1		2010	243	0.
1		0130	19	0.	*	1		0745	94	0.	*	1		1400	169	0.	*	1		2015	244	0.
1		0135	20	0.	*	1		0750	95	0.	*	1		1405	170	0.	*	1		2020	245	0.
1		0140	21	0.	*	1		0755	96	0.	*	1		1410	171	0.	*	1		2025	246	0.
1		0145	22	0.	*	1		0800	97	0.	*	1		1415	172	0.	*	1		2030	247	0.
1		0150	23	0.	*	1		0805	98	0.	*	1		1420	173	0.	*	1		2035	248	0.
1		0155	24	0.	*	1		0810	99	0.	*	1		1425	174	0.	*	1		2040	249	0.

1	0200	25	0.	*	1	0815	100	0.	*	1	1430	175	0.	*	1	2045	250	0.
1	0205	26	0.	*	1	0820	101	0.	*	1	1435	176	0.	*	1	2050	251	0.
1	0210	27	0.	*	1	0825	102	0.	*	1	1440	177	0.	*	1	2055	252	0.
1	0215	28	0.	*	1	0830	103	0.	*	1	1445	178	0.	*	1	2100	253	0.
	0220	29	0.	*	1	0835	104	0.	*	1	1450	179	0.	*	1	2105	254	0.
1	0225	30	0.	*	1	0840	105	0.	*	1	1455	180	0.	*	1	2110	255	0.
1	0230	31	0.	*	1	0845	106	0.	*	1	1500	181	0.	*	1	2115	256	0.
1	0235	32	0.	*	1	0850	107	0.	*	1	1505	182	0.	*	1	2120	257	0.
1	0240	33	0.	*	1	0855	108	0.	*	1	1510	183	0.	*	1	2125	258	0.
1	0245	34	0.	*	1	0900	109	0.	*	1	1515	184	0.	*	1	2130	259	0.
1	0250	35	0.	*	1	0905	110	0.	*	1	1520	185	0.	*	1	2135	260	0.
1	0255	36	0.	*	1	0910	111	0.	*	1	1525	186	0.	*	1	2140	261	0.
1	0300	37	0.	*	1	0915	112	0.	*	1	1530	187	0.	*	1	2145	262	0.
1	0305	38	0.	*	1	0920	113	0.	*	1	1535	188	0.	*	1	2150	263	0.
1	0310	39	0.	*	1	0925	114	0.	*	1	1540	189	0.	*	1	2155	264	0.
1	0315	40	0.	*	1	0930	115	0.	*	1	1545	190	0.	*	1	2200	265	0.
1	0320	41	0.	*	1	0935	116	0.	*	1	1550	191	0.	*	1	2205	266	0.
1	0325	42	0.	*	1	0940	117	0.	*	1	1555	192	0.	*	1	2210	267	0.
1	0330	43	0.	*	1	0945	118	0.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	0.	*	1	0950	119	0.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	0.	*	1	0955	120	0.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	0.	*	1	1000	121	0.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	0.	*	1	1005	122	0.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	0.	*	1	1010	123	0.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	0.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	0.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	0.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	0.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	0.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	0.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	0.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	0.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	0.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	0.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	0.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	0.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	0.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	0.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	0.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	0.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	0.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	0.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	0.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	0.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	0.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	0.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	0.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	0.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	0.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	0.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	0.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
615.	12.75	(CFS)	40.	10.	10.	10.
		(INCHES)	.061	.061	.061	.061
		(AC-FT)	20.	20.	20.	20.

CUMULATIVE AREA = 6.09 SQ MI

INTERPOLATED HYDROGRAPH AT DIV-2F

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	16.	1		1230	151	2549.	1		1845	226	26.
1		0005	2	0.	1		0620	77	16.	1		1235	152	2867.	1		1850	227	25.
1		0010	3	0.	1		0625	78	16.	1		1240	153	3012.	1		1855	228	25.
1		0015	4	0.	1		0630	79	16.	1		1245	154	3080.	1		1900	229	25.
1		0020	5	0.	1		0635	80	16.	1		1250	155	3078.	1		1905	230	24.
1		0025	6	0.	1		0640	81	17.	1		1255	156	3020.	1		1910	231	24.
1		0030	7	0.	1		0645	82	17.	1		1300	157	2922.	1		1915	232	24.
1		0035	8	0.	1		0650	83	17.	1		1305	158	2818.	1		1920	233	23.
1		0040	9	0.	1		0655	84	17.	1		1310	159	2639.	1		1925	234	23.
1		0045	10	0.	1		0700	85	17.	1		1315	160	2378.	1		1930	235	23.
1		0050	11	0.	1		0705	86	17.	1		1320	161	2127.	1		1935	236	22.
1		0055	12	0.	1		0710	87	17.	1		1325	162	1906.	1		1940	237	22.
1		0100	13	0.	1		0715	88	18.	1		1330	163	1706.	1		1945	238	22.
1		0105	14	0.	1		0720	89	18.	1		1335	164	1523.	1		1950	239	21.
1		0110	15	0.	1		0725	90	18.	1		1340	165	1355.	1		1955	240	21.
1		0115	16	0.	1		0730	91	18.	1		1345	166	1203.	1		2000	241	21.
1		0120	17	0.	1		0735	92	18.	1		1350	167	1073.	1		2005	242	21.
1		0125	18	0.	1		0740	93	18.	1		1355	168	963.	1		2010	243	20.
1		0130	19	1.	1		0745	94	19.	1		1400	169	867.	1		2015	244	20.
1		0135	20	1.	1		0750	95	19.	1		1405	170	783.	1		2020	245	20.
1		0140	21	1.	1		0755	96	19.	1		1410	171	711.	1		2025	246	20.
1		0145	22	1.	1		0800	97	19.	1		1415	172	641.	1		2030	247	19.
1		0150	23	1.	1		0805	98	19.	1		1420	173	575.	1		2035	248	19.
1		0155	24	2.	1		0810	99	19.	1		1425	174	515.	1		2040	249	19.
1		0200	25	2.	1		0815	100	20.	1		1430	175	461.	1		2045	250	19.
1		0205	26	2.	1		0820	101	20.	1		1435	176	413.	1		2050	251	19.
1		0210	27	3.	1		0825	102	20.	1		1440	177	371.	1		2055	252	19.
1		0215	28	3.	1		0830	103	20.	1		1445	178	334.	1		2100	253	18.
1		0220	29	3.	1		0835	104	20.	1		1450	179	305.	1		2105	254	18.
1		0225	30	4.	1		0840	105	21.	1		1455	180	282.	1		2110	255	18.
1		0230	31	4.	1		0845	106	21.	1		1500	181	263.	1		2115	256	18.
1		0235	32	5.	1		0850	107	21.	1		1505	182	245.	1		2120	257	18.
1		0240	33	5.	1		0855	108	21.	1		1510	183	230.	1		2125	258	18.
1		0245	34	6.	1		0900	109	22.	1		1515	184	217.	1		2130	259	17.
1		0250	35	6.	1		0905	110	22.	1		1520	185	207.	1		2135	260	17.
1		0255	36	6.	1		0910	111	22.	1		1525	186	198.	1		2140	261	17.
1		0300	37	7.	1		0915	112	22.	1		1530	187	190.	1		2145	262	17.
1		0305	38	7.	1		0920	113	23.	1		1535	188	180.	1		2150	263	17.
1		0310	39	8.	1		0925	114	23.	1		1540	189	170.	1		2155	264	17.
1		0315	40	8.	1		0930	115	23.	1		1545	190	158.	1		2200	265	16.
1		0320	41	9.	1		0935	116	24.	1		1550	191	146.	1		2205	266	16.
1		0325	42	9.	1		0940	117	24.	1		1555	192	133.	1		2210	267	16.
1		0330	43	10.	1		0945	118	25.	1		1600	193	122.	1		2215	268	16.
1		0335	44	11.	1		0950	119	25.	1		1605	194	111.	1		2220	269	16.
1		0340	45	11.	1		0955	120	25.	1		1610	195	100.	1		2225	270	16.
1		0345	46	12.	1		1000	121	26.	1		1615	196	90.	1		2230	271	16.
1		0350	47	12.	1		1005	122	26.	1		1620	197	81.	1		2235	272	16.
1		0355	48	12.	1		1010	123	27.	1		1625	198	74.	1		2240	273	15.
1		0400	49	13.	1		1015	124	27.	1		1630	199	69.	1		2245	274	15.

1	0405	50	13.	*	1	1020	125	28.	*	1	1635	200	64.	*	1	2250	275	15.
1	0410	51	13.	*	1	1025	126	28.	*	1	1640	201	59.	*	1	2255	276	15.
1	0415	52	13.	*	1	1030	127	29.	*	1	1645	202	55.	*	1	2300	277	15.
1	0420	53	13.	*	1	1035	128	29.	*	1	1650	203	51.	*	1	2305	278	15.
1	0425	54	13.	*	1	1040	129	30.	*	1	1655	204	48.	*	1	2310	279	15.
1	0430	55	14.	*	1	1045	130	30.	*	1	1700	205	45.	*	1	2315	280	15.
1	0435	56	14.	*	1	1050	131	31.	*	1	1705	206	43.	*	1	2320	281	15.
1	0440	57	14.	*	1	1055	132	31.	*	1	1710	207	40.	*	1	2325	282	15.
1	0445	58	14.	*	1	1100	133	32.	*	1	1715	208	38.	*	1	2330	283	15.
1	0450	59	14.	*	1	1105	134	33.	*	1	1720	209	37.	*	1	2335	284	14.
1	0455	60	14.	*	1	1110	135	34.	*	1	1725	210	35.	*	1	2340	285	14.
1	0500	61	14.	*	1	1115	136	35.	*	1	1730	211	34.	*	1	2345	286	14.
1	0505	62	14.	*	1	1120	137	36.	*	1	1735	212	33.	*	1	2350	287	14.
1	0510	63	14.	*	1	1125	138	37.	*	1	1740	213	33.	*	1	2355	288	14.
1	0515	64	15.	*	1	1130	139	38.	*	1	1745	214	32.	*	2	0000	289	14.
1	0520	65	15.	*	1	1135	140	44.	*	1	1750	215	31.	*	2	0005	290	14.
1	0525	66	15.	*	1	1140	141	53.	*	1	1755	216	31.	*	2	0010	291	14.
1	0530	67	15.	*	1	1145	142	75.	*	1	1800	217	30.	*	2	0015	292	14.
1	0535	68	15.	*	1	1150	143	109.	*	1	1805	218	29.	*	2	0020	293	13.
1	0540	69	15.	*	1	1155	144	165.	*	1	1810	219	29.	*	2	0025	294	13.
1	0545	70	15.	*	1	1200	145	267.	*	1	1815	220	28.	*	2	0030	295	13.
1	0550	71	15.	*	1	1205	146	446.	*	1	1820	221	28.	*	2	0035	296	13.
1	0555	72	15.	*	1	1210	147	711.	*	1	1825	222	27.	*	2	0040	297	13.
1	0600	73	16.	*	1	1215	148	1036.	*	1	1830	223	27.	*	2	0045	298	13.
1	0605	74	16.	*	1	1220	149	1461.	*	1	1835	224	27.	*	2	0050	299	13.
1	0610	75	16.	*	1	1225	150	1975.	*	1	1840	225	26.	*	2	0055	300	13.
				*					*					*				

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K FLOW	TIME		MAXIMUM AVERAGE FLOW			
CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
3080.	12.75	(CFS)	783.	209.	201.	201.
		(INCHES)	1.195	1.275	1.275	1.275
		(AC-FT)	388.	414.	414.	414.

CUMULATIVE AREA = 6.09 SQ MI

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          *            *
337 KK    *    2F-2E   *      Routing thru F4
          *            *
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338 KO          OUTPUT CONTROL VARIABLES
                     IPRNT         2  PRINT CONTROL
                     IPLOT         0  PLOT CONTROL
                     QSCAL         0.  HYDROGRAPH PLOT SCALE
                     IPNCH         0  PUNCH COMPUTED HYDROGRAPH
                      IOUT        22  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
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HYDROGRAPH ROUTING DATA

339 RS STORAGE ROUTING

NSTPS	9	NUMBER OF SUBREACHES
ITYP	FLOW	TYPE OF INITIAL CONDITION
RSVRIC	.00	INITIAL CONDITION
X	.00	WORKING R AND D COEFFICIENT

340 RC NORMAL DEPTH CHANNEL

ANL	.050	LEFT OVERBANK N-VALUE
ANCH	.044	MAIN CHANNEL N-VALUE
ANR	.050	RIGHT OVERBANK N-VALUE
RLNTH	14310.	REACH LENGTH
SEL	.0137	ENERGY SLOPE
ELMAX	.0	MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

CROSS-SECTION DATA

		--- LEFT OVERBANK ---	+ ------ MAIN CHANNEL -------	+ --- RIGHT OVERBANK ---				
342 RY	ELEVATION	15.00	14.00	13.00	10.00	10.00	12.50	14.50	16.50
341 RX	DISTANCE	.00	70.00	150.00	190.00	205.00	235.00	310.00	390.00

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COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	2.17	5.32	9.44	14.54	20.60	27.65	35.66	44.89	56.09
OUTFLOW	.00	11.20	40.43	89.75	162.11	260.47	387.66	546.40	754.19	1017.47
ELEVATION	10.00	10.34	10.68	11.03	11.37	11.71	12.05	12.39	12.74	13.08
STORAGE	71.05	90.53	114.51	142.71	175.08	211.48	249.93	289.92	331.44	374.50
OUTFLOW	1364.27	1789.92	2311.06	2940.87	3686.87	4583.89	5650.91	6850.04	8180.26	9641.39
ELEVATION	13.42	13.76	14.11	14.45	14.79	15.13	15.47	15.82	16.16	16.50

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 8180. TO 9641.
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.)

3060 OK

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HYDROGRAPH AT STATION 2F-2E
TRANSPOSITION AREA .0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2981.	13.33	(CFS)	806.	214.	206.	206.
		(INCHES)	1.231	1.306	1.306	1.306
		(AC-FT)	400.	424.	424.	424.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
16.	13.33	5.	1.	1.	1.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
14.47	13.33	12.23	10.83	10.80	10.80

CUMULATIVE AREA = 6.09 SQ MI

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HYDROGRAPH AT STATION 2F-2E
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2943.	13.42	(CFS)	790.	210.	202.	202.
		(INCHES)	1.206	1.280	1.280	1.280
		(AC-FT)	392.	416.	416.	416.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
16.	13.42	5.	1.	1.	1.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
14.45	13.42	12.21	10.82	10.79	10.79

CUMULATIVE AREA = 6.09 SQ MI

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HYDROGRAPH AT STATION 2F-2E
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
[illegible]879.	13.42	(CFS)	762.	202.	195.	195.
		(INCHES)	1.164	1.235	1.235	1.235
		(AC-FT)	378.	401.	401.	401.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
16.	13.42	5.	1.	1.	1.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
14.41	13.42	12.18	10.80	10.78	10.78

CUMULATIVE AREA = 6.09 SQ MI

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HYDROGRAPH AT STATION 2F-2E
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2709.	13.42	(CFS)	696.	185.	178.	178.
		(INCHES)	1.063	1.129	1.129	1.129
		(AC-FT)	345.	367.	367.	367.

[illegible]STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
15.	13.42	4.	1.	1.	1.

PEAK STAGE TIME MAXIMUM AVERAGE STAGE

(FEET)	(HR)		6-HR	24-HR	72-HR	24.92-HR
14.32	13.42		12.10	10.77	10.74	10.74

CUMULATIVE AREA = 6.09 SQ MI

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HYDROGRAPH AT STATION 2F-2E
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
2611.	13.42	(CFS)	663.	176.	170.	170.
		(INCHES)	1.013	1.076	1.076	1.076
		(AC-FT)	329.	350.	350.	350.

PEAK STORAGE	TIME		MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)		6-HR	24-HR	72-HR	24.92-HR
14.	13.42		4.	1.	1.	1.

PEAK STAGE	TIME		MAXIMUM AVERAGE STAGE			
(FEET)	(HR)		6-HR	24-HR	72-HR	24.92-HR
14.27	13.42		12.06	10.76	10.73	10.73

CUMULATIVE AREA = 6.09 SQ MI

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HYDROGRAPH AT STATION 2F-2E
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
2286.	13.42	(CFS)	580.	154.	149.	149.
		(INCHES)	.885	.943	.943	.943
		(AC-FT)	287.	306.	306.	306.

PEAK STORAGE	TIME		MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)		6-HR	24-HR	72-HR	24.92-HR
13.	13.42		4.	1.	1.	1.

PEAK STAGE	TIME		MAXIMUM AVERAGE STAGE			
(FEET)	(HR)		6-HR	24-HR	72-HR	24.92-HR
14.09	13.42		11.96	10.72	10.69	10.69

CUMULATIVE AREA = 6.09 SQ MI

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INTERPOLATED HYDROGRAPH AT 2F-2E

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	14.	*	1		1230	151	125.	*	1		1845	226	36.
1		0005	2	0.	*	1		0620	77	14.	*	1		1235	152	272.	*	1		1850	227	35.

1	0010	3	0.	*	1	0625	78	14.	*	1	1240	153	565.	*	1	1855	228	34.
1	0015	4	0.	*	1	0630	79	14.	*	1	1245	154	978.	*	1	1900	229	33.
1	0020	5	0.	*	1	0635	80	14.	*	1	1250	155	1378.	*	1	1905	230	33.
1	0025	6	0.	*	1	0640	81	15.	*	1	1255	156	1747.	*	1	1910	231	32.
1	0030	7	0.	*	1	0645	82	15.	*	1	1300	157	2107.	*	1	1915	232	31.
1	0035	8	0.	*	1	0650	83	15.	*	1	1305	158	2430.	*	1	1920	233	30.
1	0040	9	0.	*	1	0655	84	15.	*	1	1310	159	2683.	*	1	1925	234	30.
1	0045	10	0.	*	1	0700	85	15.	*	1	1315	160	2844.	*	1	1930	235	29.
1	0050	11	0.	*	1	0705	86	15.	*	1	1320	161	2920.	*	1	1935	236	29.
1	0055	12	0.	*	1	0710	87	15.	*	1	1325	162	2925.	*	1	1940	237	28.
1	0100	13	0.	*	1	0715	88	16.	*	1	1330	163	2871.	*	1	1945	238	28.
1	0105	14	0.	*	1	0720	89	16.	*	1	1335	164	2768.	*	1	1950	239	27.
1	0110	15	0.	*	1	0725	90	16.	*	1	1340	165	2623.	*	1	1955	240	27.
1	0115	16	0.	*	1	0730	91	16.	*	1	1345	166	2448.	*	1	2000	241	26.
1	0120	17	0.	*	1	0735	92	16.	*	1	1350	167	2258.	*	1	2005	242	26.
1	0125	18	0.	*	1	0740	93	16.	*	1	1355	168	2064.	*	1	2010	243	25.
1	0130	19	0.	*	1	0745	94	16.	*	1	1400	169	1867.	*	1	2015	244	25.
1	0135	20	0.	*	1	0750	95	16.	*	1	1405	170	1676.	*	1	2020	245	25.
1	0140	21	0.	*	1	0755	96	16.	*	1	1410	171	1493.	*	1	2025	246	24.
1	0145	22	0.	*	1	0800	97	17.	*	1	1415	172	1320.	*	1	2030	247	24.
1	0150	23	0.	*	1	0805	98	17.	*	1	1420	173	1162.	*	1	2035	248	24.
1	0155	24	0.	*	1	0810	99	17.	*	1	1425	174	1030.	*	1	2040	249	23.
1	0200	25	0.	*	1	0815	100	17.	*	1	1430	175	919.	*	1	2045	250	23.
1	0205	26	0.	*	1	0820	101	17.	*	1	1435	176	825.	*	1	2050	251	23.
1	0210	27	0.	*	1	0825	102	17.	*	1	1440	177	747.	*	1	2055	252	22.
1	0215	28	0.	*	1	0830	103	17.	*	1	1445	178	679.	*	1	2100	253	22.
1	0220	29	0.	*	1	0835	104	18.	*	1	1450	179	618.	*	1	2105	254	22.
1	0225	30	0.	*	1	0840	105	18.	*	1	1455	180	564.	*	1	2110	255	21.
1	0230	31	0.	*	1	0845	106	18.	*	1	1500	181	520.	*	1	2115	256	21.
1	0235	32	0.	*	1	0850	107	18.	*	1	1505	182	479.	*	1	2120	257	21.
1	0240	33	0.	*	1	0855	108	18.	*	1	1510	183	439.	*	1	2125	258	21.
1	0245	34	0.	*	1	0900	109	18.	*	1	1515	184	403.	*	1	2130	259	20.
1	0250	35	0.	*	1	0905	110	19.	*	1	1520	185	372.	*	1	2135	260	20.
1	0255	36	0.	*	1	0910	111	19.	*	1	1525	186	345.	*	1	2140	261	20.
1	0300	37	0.	*	1	0915	112	19.	*	1	1530	187	319.	*	1	2145	262	20.
1	0305	38	0.	*	1	0920	113	19.	*	1	1535	188	296.	*	1	2150	263	20.
1	0310	39	0.	*	1	0925	114	19.	*	1	1540	189	276.	*	1	2155	264	19.
1	0315	40	0.	*	1	0930	115	20.	*	1	1545	190	260.	*	1	2200	265	19.
1	0320	41	0.	*	1	0935	116	20.	*	1	1550	191	247.	*	1	2205	266	19.
1	0325	42	1.	*	1	0940	117	20.	*	1	1555	192	234.	*	1	2210	267	19.
1	0330	43	1.	*	1	0945	118	20.	*	1	1600	193	222.	*	1	2215	268	19.
1	0335	44	1.	*	1	0950	119	20.	*	1	1605	194	211.	*	1	2220	269	18.
1	0340	45	1.	*	1	0955	120	21.	*	1	1610	195	200.	*	1	2225	270	18.
1	0345	46	1.	*	1	1000	121	21.	*	1	1615	196	190.	*	1	2230	271	18.
1	0350	47	1.	*	1	1005	122	21.	*	1	1620	197	179.	*	1	2235	272	18.
1	0355	48	2.	*	1	1010	123	21.	*	1	1625	198	170.	*	1	2240	273	18.
1	0400	49	2.	*	1	1015	124	22.	*	1	1630	199	161.	*	1	2245	274	18.
1	0405	50	2.	*	1	1020	125	22.	*	1	1635	200	153.	*	1	2250	275	17.
1	0410	51	2.	*	1	1025	126	22.	*	1	1640	201	144.	*	1	2255	276	17.
1	0415	52	2.	*	1	1030	127	22.	*	1	1645	202	134.	*	1	2300	277	17.
1	0420	53	3.	*	1	1035	128	23.	*	1	1650	203	125.	*	1	2305	278	17.
1	0425	54	3.	*	1	1040	129	23.	*	1	1655	204	115.	*	1	2310	279	17.
1	0430	55	3.	*	1	1045	130	23.	*	1	1700	205	107.	*	1	2315	280	17.
1	0435	56	4.	*	1	1050	131	24.	*	1	1705	206	99.	*	1	2320	281	16.
1	0440	57	4.	*	1	1055	132	24.	*	1	1710	207	92.	*	1	2325	282	16.
1	0445	58	4.	*	1	1100	133	24.	*	1	1715	208	87.	*	1	2330	283	16.
1	0450	59	5.	*	1	1105	134	25.	*	1	1720	209	82.	*	1	2335	284	16.
1	0455	60	5.	*	1	1110	135	25.	*	1	1725	210	77.	*	1	2340	285	16.
1	0500	61	6.	*	1	1115	136	26.	*	1	1730	211	72.	*	1	2345	286	16.
1	0505	62	6.	*	1	1120	137	26.	*	1	1735	212	67.	*	1	2350	287	16.

1	0510	63	6.	*	1	1125	138	27.	*	1	1740	213	63.	*	1	2355	288	16.
1	0515	64	7.	*	1	1130	139	27.	*	1	1745	214	59.	*	2	0000	289	15.
1	0520	65	7.	*	1	1135	140	27.	*	1	1750	215	55.	*	2	0005	290	15.
1	0525	66	8.	*	1	1140	141	28.	*	1	1755	216	52.	*	2	0010	291	15.
1	0530	67	8.	*	1	1145	142	28.	*	1	1800	217	49.	*	2	0015	292	15.
1	0535	68	9.	*	1	1150	143	29.	*	1	1805	218	46.	*	2	0020	293	15.
1	0540	69	10.	*	1	1155	144	30.	*	1	1810	219	44.	*	2	0025	294	15.
1	0545	70	10.	*	1	1200	145	30.	*	1	1815	220	42.	*	2	0030	295	15.
1	0550	71	11.	*	1	1205	146	31.	*	1	1820	221	41.	*	2	0035	296	15.
1	0555	72	12.	*	1	1210	147	33.	*	1	1825	222	40.	*	2	0040	297	15.
1	0600	73	12.	*	1	1215	148	36.	*	1	1830	223	39.	*	2	0045	298	15.
1	0605	74	13.	*	1	1220	149	44.	*	1	1835	224	38.	*	2	0050	299	14.
1	0610	75	13.	*	1	1225	150	66.	*	1	1840	225	37.	*	2	0055	300	14.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
2925.	13.42	(CFS)	782.	207.	200.	200.
		(INCHES)	1.194	1.267	1.267	1.267
		(AC-FT)	388.	412.	412.	412.

CUMULATIVE AREA = 6.09 SQ MI

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          *            *
343 KK    *        E3  *
          *            *
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BASIN E3

THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN

L= 3.5 Lca= 2.0 S= 57.0 Kn= .050 LAG= 69.0

PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN

348 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

SUBBASIN RUNOFF DATA

349 BA SUBBASIN CHARACTERISTICS

TAREA	2.52	SUBBASIN AREA

350 LG GREEN AND AMPT LOSS RATE

STRTL	.17	STARTING LOSS
DTH	.35	MOISTURE DEFICIT
PSIF	3.87	WETTING FRONT SUCTION

XKSAT .32 HYDRAULIC CONDUCTIVITY
RTIMP .00 PERCENT IMPERVIOUS AREA

749 UI INPUT UNITGRAPH, 41 ORDINATES, VOLUME = 1.00

123.0	123.0	123.0	354.0	464.0	577.0	642.0	707.0	784.0	889.0
986.0	1196.0	1510.0	1542.0	1291.0	1129.0	1016.0	923.0	809.0	725.0
634.0	577.0	455.0	347.0	217.0	213.0	202.0	177.0	123.0	123.0
111.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0
38.0									

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HYDROGRAPH AT STATION E3
TRANSPOSITION AREA .0 SQ MI

TOTAL RAINFALL = 4.20, TOTAL LOSS = 2.94, TOTAL EXCESS = 1.26

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1609.	12.92	(CFS)	340.	85.	82.	82.
		(INCHES)	1.253	1.253	1.253	1.253
		(AC-FT)	168.	168.	168.	168.

CUMULATIVE AREA = 2.52 SQ MI

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HYDROGRAPH AT STATION E3
TRANSPOSITION AREA 5.0 SQ MI

TOTAL RAINFALL = 4.12, TOTAL LOSS = 2.90, TOTAL EXCESS = 1.22

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1564.	12.92	(CFS)	330.	82.	79.	79.
		(INCHES)	1.217	1.217	1.217	1.217
		(AC-FT)	164.	164.	164.	164.

CUMULATIVE AREA = 2.52 SQ MI

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HYDROGRAPH AT STATION E3
TRANSPOSITION AREA 10.0 SQ MI

TOTAL RAINFALL = 3.99, TOTAL LOSS = 2.83, TOTAL EXCESS = 1.16

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1494.	12.92	(CFS)	315.	79.	76.	76.
		(INCHES)	1.162	1.162	1.162	1.162
		(AC-FT)	156.	156.	156.	156.

CUMULATIVE AREA = 2.52 SQ MI

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HYDROGRAPH AT STATION E3
TRANSPOSITION AREA 50.0 SQ MI

TOTAL RAINFALL = 3.70, TOTAL LOSS = 2.66, TOTAL EXCESS = 1.04

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1335.	12.92	(CFS)	281.	70.	68.	68.
		(INCHES)	1.038	1.038	1.038	1.038
		(AC-FT)	140.	140.	140.	140.

CUMULATIVE AREA = 2.52 SQ MI

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HYDROGRAPH AT STATION E3
TRANSPOSITION AREA 100.0 SQ MI

TOTAL RAINFALL = 3.57, TOTAL LOSS = 2.59, TOTAL EXCESS = .98

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1264.	12.92	(CFS)	266.	67.	64.	64.
		(INCHES)	.982	.982	.982	.982
		(AC-FT)	132.	132.	132.	132.

CUMULATIVE AREA = 2.52 SQ MI

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HYDROGRAPH AT STATION E3
TRANSPOSITION AREA 500.0 SQ MI

TOTAL RAINFALL = 3.28, TOTAL LOSS = 2.42, TOTAL EXCESS = .86

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1102.	12.92	(CFS)	232.	58.	56.	56.
		(INCHES)	.856	.856	.856	.856
		(AC-FT)	115.	115.	115.	115.

CUMULATIVE AREA = 2.52 SQ MI

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INTERPOLATED HYDROGRAPH AT E3

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	0.	1		1230	151	1058.	1		1845	226	0.
1		0005	2	0.	1		0620	77	0.	1		1235	152	1234.	1		1850	227	0.
1		0010	3	0.	1		0625	78	0.	1		1240	153	1404.	1		1855	228	0.
1		0015	4	0.	1		0630	79	0.	1		1245	154	1509.	1		1900	229	0.

1	0020	5	0.	*	1	0635	80	0.	*	1	1250	155	1560.	*	1	1905	230	0.
1	0025	6	0.	*	1	0640	81	0.	*	1	1255	156	1569.	*	1	1910	231	0.
1	0030	7	0.	*	1	0645	82	0.	*	1	1300	157	1515.	*	1	1915	232	0.
1	0035	8	0.	*	1	0650	83	0.	*	1	1305	158	1372.	*	1	1920	233	0.
1	0040	9	0.	*	1	0655	84	0.	*	1	1310	159	1205.	*	1	1925	234	0.
1	0045	10	0.	*	1	0700	85	0.	*	1	1315	160	1071.	*	1	1930	235	0.
1	0050	11	0.	*	1	0705	86	0.	*	1	1320	161	958.	*	1	1935	236	0.
1	0055	12	0.	*	1	0710	87	0.	*	1	1325	162	844.	*	1	1940	237	0.
1	0100	13	0.	*	1	0715	88	0.	*	1	1330	163	727.	*	1	1945	238	0.
1	0105	14	0.	*	1	0720	89	0.	*	1	1335	164	606.	*	1	1950	239	0.
1	0110	15	0.	*	1	0725	90	0.	*	1	1340	165	501.	*	1	1955	240	0.
1	0115	16	0.	*	1	0730	91	0.	*	1	1345	166	413.	*	1	2000	241	0.
1	0120	17	0.	*	1	0735	92	0.	*	1	1350	167	330.	*	1	2005	242	0.
1	0125	18	0.	*	1	0740	93	0.	*	1	1355	168	262.	*	1	2010	243	0.
1	0130	19	0.	*	1	0745	94	0.	*	1	1400	169	216.	*	1	2015	244	0.
1	0135	20	0.	*	1	0750	95	0.	*	1	1405	170	195.	*	1	2020	245	0.
1	0140	21	0.	*	1	0755	96	0.	*	1	1410	171	159.	*	1	2025	246	0.
1	0145	22	0.	*	1	0800	97	0.	*	1	1415	172	125.	*	1	2030	247	0.
1	0150	23	0.	*	1	0805	98	0.	*	1	1420	173	97.	*	1	2035	248	0.
1	0155	24	0.	*	1	0810	99	0.	*	1	1425	174	79.	*	1	2040	249	0.
1	0200	25	0.	*	1	0815	100	0.	*	1	1430	175	62.	*	1	2045	250	0.
1	0205	26	0.	*	1	0820	101	0.	*	1	1435	176	47.	*	1	2050	251	0.
1	0210	27	0.	*	1	0825	102	0.	*	1	1440	177	47.	*	1	2055	252	0.
1	0215	28	0.	*	1	0830	103	0.	*	1	1445	178	47.	*	1	2100	253	0.
1	0220	29	0.	*	1	0835	104	0.	*	1	1450	179	47.	*	1	2105	254	0.
1	0225	30	0.	*	1	0840	105	0.	*	1	1455	180	47.	*	1	2110	255	0.
1	0230	31	0.	*	1	0845	106	0.	*	1	1500	181	39.	*	1	2115	256	0.
1	0235	32	0.	*	1	0850	107	0.	*	1	1505	182	31.	*	1	2120	257	0.
1	0240	33	0.	*	1	0855	108	0.	*	1	1510	183	24.	*	1	2125	258	0.
1	0245	34	0.	*	1	0900	109	0.	*	1	1515	184	16.	*	1	2130	259	0.
1	0250	35	0.	*	1	0905	110	0.	*	1	1520	185	8.	*	1	2135	260	0.
1	0255	36	0.	*	1	0910	111	0.	*	1	1525	186	0.	*	1	2140	261	0.
1	0300	37	0.	*	1	0915	112	0.	*	1	1530	187	0.	*	1	2145	262	0.
1	0305	38	0.	*	1	0920	113	0.	*	1	1535	188	0.	*	1	2150	263	0.
1	0310	39	0.	*	1	0925	114	0.	*	1	1540	189	0.	*	1	2155	264	0.
1	0315	40	0.	*	1	0930	115	0.	*	1	1545	190	0.	*	1	2200	265	0.
1	0320	41	0.	*	1	0935	116	0.	*	1	1550	191	0.	*	1	2205	266	0.
1	0325	42	0.	*	1	0940	117	0.	*	1	1555	192	0.	*	1	2210	267	0.
1	0330	43	0.	*	1	0945	118	0.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	0.	*	1	0950	119	0.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	0.	*	1	0955	120	0.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	0.	*	1	1000	121	0.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	0.	*	1	1005	122	0.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	0.	*	1	1010	123	0.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	0.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	0.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	0.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	0.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	0.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	0.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	0.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	0.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	0.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	0.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	0.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	0.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	0.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	0.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	0.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	0.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.

1	0520	65	0.	*	1	1135	140	25.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	0.	*	1	1140	141	49.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	0.	*	1	1145	142	74.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	0.	*	1	1150	143	146.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	0.	*	1	1155	144	240.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	0.	*	1	1200	145	357.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	0.	*	1	1205	146	462.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	0.	*	1	1210	147	582.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	0.	*	1	1215	148	717.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	0.	*	1	1220	149	826.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	0.	*	1	1225	150	933.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
1569.	12.92	(CFS)	331.	83.	80.	80.
		(INCHES)	1.221	1.221	1.221	1.221
		(AC-FT)	164.	164.	164.	164.

CUMULATIVE AREA = 2.52 SQ MI

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          **************
          *            *
 1 KK     *        F4  *
          *            *
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BASIN F4
THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
L= 2.7 Lca= .9 S= 72.0 Kn= .050 LAG= 45.0
PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN

362 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

SUBBASIN RUNOFF DATA

363 BA SUBBASIN CHARACTERISTICS

TAREA	2.25	SUBBASIN AREA

LG GREEN AND AMPT LOSS RATE

STRTL	.17	STARTING LOSS
DTH	.35	MOISTURE DEFICIT
PSIF	4.23	WETTING FRONT SUCTION
XKSAT	.44	HYDRAULIC CONDUCTIVITY
RTIMP	.00	PERCENT IMPERVIOUS AREA

363 UI INPUT UNITGRAPH, 26 ORDINATES, VOLUME = 1.00

169.0	169.0	555.0	760.0	921.0	1072.0	1277.0	1687.0	2115.0	1760.0
1455.0	1242.0	1033.0	857.0	678.0	415.0	294.0	277.0	174.0	169.0
66.0	52.0	52.0	52.0	52.0	52.0				

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HYDROGRAPH AT STATION F4
TRANSPOSITION AREA .0 SQ MI

TOTAL RAINFALL = 4.20, TOTAL LOSS = 3.08, TOTAL EXCESS = 1.12

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1776.	12.50	(CFS)	270.	67.	65.	65.
		(INCHES)	1.115	1.115	1.115	1.115
		(AC-FT)	134.	134.	134.	134.

CUMULATIVE AREA = 2.25 SQ MI

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

HYDROGRAPH AT STATION F4
TRANSPOSITION AREA 5.0 SQ MI

TOTAL RAINFALL = 4.12, TOTAL LOSS = 3.04, TOTAL EXCESS = 1.08

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1721.	12.50	(CFS)	261.	65.	63.	63.
		(INCHES)	1.080	1.080	1.080	1.080
		(AC-FT)	130.	130.	130.	130.

CUMULATIVE AREA = 2.25 SQ MI

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

HYDROGRAPH AT STATION F4
TRANSPOSITION AREA 10.0 SQ MI

TOTAL RAINFALL = 3.99, TOTAL LOSS = 2.97, TOTAL EXCESS = 1.02

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1631.	12.50	(CFS)	248.	62.	60.	60.
		(INCHES)	1.023	1.023	1.023	1.023
		(AC-FT)	123.	123.	123.	123.

CUMULATIVE AREA = 2.25 SQ MI

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

HYDROGRAPH AT STATION F4
TRANSPOSITION AREA 50.0 SQ MI

TOTAL RAINFALL = 3.70, TOTAL LOSS = 2.80, TOTAL EXCESS = .90

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1428.	12.50	(CFS)	217.	54.	52.	52.
		(INCHES)	.895	.895	.895	.895
		(AC-FT)	107.	107.	107.	107.

CUMULATIVE AREA = 2.25 SQ MI

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

HYDROGRAPH AT STATION F4
TRANSPOSITION AREA 100.0 SQ MI

TOTAL RAINFALL = 3.57, TOTAL LOSS = 2.73, TOTAL EXCESS = .84

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1336.	12.50	(CFS)	203.	51.	49.	49.
		(INCHES)	.837	.837	.837	.837
		(AC-FT)	100.	100.	100.	100.

CUMULATIVE AREA = 2.25 SQ MI

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

HYDROGRAPH AT STATION F4
TRANSPOSITION AREA 500.0 SQ MI

TOTAL RAINFALL = 3.28, TOTAL LOSS = 2.57, TOTAL EXCESS = .71

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1128.	12.50	(CFS)	171.	43.	41.	41.
		(INCHES)	.706	.706	.706	.706
		(AC-FT)	85.	85.	85.	85.

CUMULATIVE AREA = 2.25 SQ MI

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INTERPOLATED HYDROGRAPH AT F4

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	0.	*	1		1230	151	1728.	*	1		1845	226	0.
1		0005	2	0.	*	1		0620	77	0.	*	1		1235	152	1690.	*	1		1850	227	0.
1		0010	3	0.	*	1		0625	78	0.	*	1		1240	153	1543.	*	1		1855	228	0.
1		0015	4	0.	*	1		0630	79	0.	*	1		1245	154	1281.	*	1		1900	229	0.
1		0020	5	0.	*	1		0635	80	0.	*	1		1250	155	1038.	*	1		1905	230	0.
1		0025	6	0.	*	1		0640	81	0.	*	1		1255	156	827.	*	1		1910	231	0.
1		0030	7	0.	*	1		0645	82	0.	*	1		1300	157	651.	*	1		1915	232	0.
1		0035	8	0.	*	1		0650	83	0.	*	1		1305	158	494.	*	1		1920	233	0.

1	0040	9	0.	*	1	0655	84	0.	*	1	1310	159	368.	*	1	1925	234	0.
1	0045	10	0.	*	1	0700	85	0.	*	1	1315	160	256.	*	1	1930	235	0.
1	0050	11	0.	*	1	0705	86	0.	*	1	1320	161	189.	*	1	1935	236	0.
1	0055	12	0.	*	1	0710	87	0.	*	1	1325	162	145.	*	1	1940	237	0.
1	0100	13	0.	*	1	0715	88	0.	*	1	1330	163	104.	*	1	1945	238	0.
1	0105	14	0.	*	1	0720	89	0.	*	1	1335	164	81.	*	1	1950	239	0.
1	0110	15	0.	*	1	0725	90	0.	*	1	1340	165	59.	*	1	1955	240	0.
1	0115	16	0.	*	1	0730	91	0.	*	1	1345	166	47.	*	1	2000	241	0.
1	0120	17	0.	*	1	0735	92	0.	*	1	1350	167	38.	*	1	2005	242	0.
1	0125	18	0.	*	1	0740	93	0.	*	1	1355	168	29.	*	1	2010	243	0.
1	0130	19	0.	*	1	0745	94	0.	*	1	1400	169	19.	*	1	2015	244	0.
1	0135	20	0.	*	1	0750	95	0.	*	1	1405	170	10.	*	1	2020	245	0.
1	0140	21	0.	*	1	0755	96	0.	*	1	1410	171	0.	*	1	2025	246	0.
1	0145	22	0.	*	1	0800	97	0.	*	1	1415	172	0.	*	1	2030	247	0.
1	0150	23	0.	*	1	0805	98	0.	*	1	1420	173	0.	*	1	2035	248	0.
1	0155	24	0.	*	1	0810	99	0.	*	1	1425	174	0.	*	1	2040	249	0.
1	0200	25	0.	*	1	0815	100	0.	*	1	1430	175	0.	*	1	2045	250	0.
1	0205	26	0.	*	1	0820	101	0.	*	1	1435	176	0.	*	1	2050	251	0.
1	0210	27	0.	*	1	0825	102	0.	*	1	1440	177	0.	*	1	2055	252	0.
1	0215	28	0.	*	1	0830	103	0.	*	1	1445	178	0.	*	1	2100	253	0.
1	0220	29	0.	*	1	0835	104	0.	*	1	1450	179	0.	*	1	2105	254	0.
1	0225	30	0.	*	1	0840	105	0.	*	1	1455	180	0.	*	1	2110	255	0.
1	0230	31	0.	*	1	0845	106	0.	*	1	1500	181	0.	*	1	2115	256	0.
1	0235	32	0.	*	1	0850	107	0.	*	1	1505	182	0.	*	1	2120	257	0.
1	0240	33	0.	*	1	0855	108	0.	*	1	1510	183	0.	*	1	2125	258	0.
1	0245	34	0.	*	1	0900	109	0.	*	1	1515	184	0.	*	1	2130	259	0.
1	0250	35	0.	*	1	0905	110	0.	*	1	1520	185	0.	*	1	2135	260	0.
1	0255	36	0.	*	1	0910	111	0.	*	1	1525	186	0.	*	1	2140	261	0.
1	0300	37	0.	*	1	0915	112	0.	*	1	1530	187	0.	*	1	2145	262	0.
1	0305	38	0.	*	1	0920	113	0.	*	1	1535	188	0.	*	1	2150	263	0.
1	0310	39	0.	*	1	0925	114	0.	*	1	1540	189	0.	*	1	2155	264	0.
1	0315	40	0.	*	1	0930	115	0.	*	1	1545	190	0.	*	1	2200	265	0.
1	0320	41	0.	*	1	0935	116	0.	*	1	1550	191	0.	*	1	2205	266	0.
1	0325	42	0.	*	1	0940	117	0.	*	1	1555	192	0.	*	1	2210	267	0.
1	0330	43	0.	*	1	0945	118	0.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	0.	*	1	0950	119	0.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	0.	*	1	0955	120	0.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	0.	*	1	1000	121	0.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	0.	*	1	1005	122	0.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	0.	*	1	1010	123	0.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	0.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	0.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	0.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	0.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	0.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	0.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	0.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	0.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	0.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	0.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	0.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	0.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	0.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	0.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	0.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	0.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	0.	*	1	1135	140	29.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	0.	*	1	1140	141	59.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	0.	*	1	1145	142	156.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	0.	*	1	1150	143	291.	*	1	1805	218	0.	*	2	0020	293	0.

1	0540	69	0.	*	1	1155	144	456.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	0.	*	1	1200	145	650.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	0.	*	1	1205	146	850.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	0.	*	1	1210	147	1124.	*	1	1825	222	0.	*	2	0040	297	0.
	0600	73	0.	*	1	1215	148	1403.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	0.	*	1	1220	149	1587.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	0.	*	1	1225	150	1690.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1728.	12.50	(CFS)	262.	66.	63.	63.
		(INCHES)	1.084	1.084	1.084	1.084
		(AC-FT)	130.	130.	130.	130.

CUMULATIVE AREA = 2.25 SQ MI

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          **************
          *            *
369 KK    *        2E  *
          *            *
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Combining E1+E2 & E3 & F1+F2+F3+F4

371 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

372 HC HYDROGRAPH COMBINATION

ICOMP	4	NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 2E
TRANSPOSITION AREA .0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
6853.	13.08	(CFS)	1854.	478.	460.	460.
		(INCHES)	1.246	1.285	1.285	1.285
		(AC-FT)	919.	948.	948.	948.

CUMULATIVE AREA = 13.83 SQ MI

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HYDROGRAPH AT STATION 2E
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
6667.	13.08	(CFS)	1807.	466.	449.	449.
		(INCHES)	1.214	1.252	1.252	1.252
		(AC-FT)	896.	924.	924.	924.

CUMULATIVE AREA = 13.83 SQ MI

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HYDROGRAPH AT STATION 2E
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
6356.	13.08	(CFS)	1729.	446.	429.	429.
		(INCHES)	1.162	1.199	1.199	1.199
		(AC-FT)	857.	884.	884.	884.

CUMULATIVE AREA = 13.83 SQ MI

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

HYDROGRAPH AT STATION 2E
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
5680.	13.17	(CFS)	1550.	400.	385.	385.
		(INCHES)	1.042	1.076	1.076	1.076
		(AC-FT)	769.	794.	794.	794.

CUMULATIVE AREA = 13.83 SQ MI

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

HYDROGRAPH AT STATION 2E
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
5369.	13.17	(CFS)	1467.	379.	365.	365.
		(INCHES)	.986	1.019	1.019	1.019
		(AC-FT)	728.	752.	752.	752.

CUMULATIVE AREA = 13.83 SQ MI

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HYDROGRAPH AT STATION 2E

TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
607.	13.25	(CFS)	1276.	330.	318.	318.
		(INCHES)	.858	.888	.888	.888
		(AC-FT)	633.	655.	655.	655.

CUMULATIVE AREA = 13.83 SQ MI

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INTERPOLATED HYDROGRAPH AT 2E

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	13.	1		1230	151	2688.	1		1845	226	44.
1		0005	2	0.	1		0620	77	13.	1		1235	152	2967.	1		1850	227	42.
1		0010	3	0.	1		0625	78	14.	1		1240	153	3357.	1		1855	228	41.
1		0015	4	0.	1		0630	79	14.	1		1245	154	3895.	1		1900	229	40.
1		0020	5	0.	1		0635	80	14.	1		1250	155	4626.	1		1905	230	38.
1		0025	6	0.	1		0640	81	14.	1		1255	156	5400.	1		1910	231	37.
1		0030	7	0.	1		0645	82	15.	1		1300	157	5978.	1		1915	232	36.
1		0035	8	0.	1		0650	83	15.	1		1305	158	6208.	1		1920	233	35.
1		0040	9	0.	1		0655	84	15.	1		1310	159	6192.	1		1925	234	34.
1		0045	10	0.	1		0700	85	15.	1		1315	160	6020.	1		1930	235	33.
1		0050	11	0.	1		0705	86	15.	1		1320	161	5772.	1		1935	236	32.
1		0055	12	0.	1		0710	87	15.	1		1325	162	5443.	1		1940	237	31.
1		0100	13	0.	1		0715	88	15.	1		1330	163	5058.	1		1945	238	30.
1		0105	14	0.	1		0720	89	15.	1		1335	164	4649.	1		1950	239	30.
1		0110	15	0.	1		0725	90	16.	1		1340	165	4226.	1		1955	240	29.
1		0115	16	0.	1		0730	91	16.	1		1345	166	3824.	1		2000	241	28.
1		0120	17	0.	1		0735	92	16.	1		1350	167	3430.	1		2005	242	28.
1		0125	18	0.	1		0740	93	16.	1		1355	168	3060.	1		2010	243	27.
1		0130	19	0.	1		0745	94	16.	1		1400	169	2728.	1		2015	244	27.
1		0135	20	0.	1		0750	95	16.	1		1405	170	2429.	1		2020	245	26.
1		0140	21	0.	1		0755	96	16.	1		1410	171	2135.	1		2025	246	25.
1		0145	22	0.	1		0800	97	16.	1		1415	172	1873.	1		2030	247	25.
1		0150	23	0.	1		0805	98	17.	1		1420	173	1641.	1		2035	248	25.
1		0155	24	0.	1		0810	99	17.	1		1425	174	1451.	1		2040	249	24.
1		0200	25	0.	1		0815	100	17.	1		1430	175	1289.	1		2045	250	24.
1		0205	26	0.	1		0820	101	17.	1		1435	176	1150.	1		2050	251	23.
1		0210	27	0.	1		0825	102	17.	1		1440	177	1041.	1		2055	252	23.
1		0215	28	0.	1		0830	103	17.	1		1445	178	946.	1		2100	253	22.
1		0220	29	0.	1		0835	104	17.	1		1450	179	862.	1		2105	254	22.
1		0225	30	0.	1		0840	105	18.	1		1455	180	790.	1		2110	255	22.
1		0230	31	0.	1		0845	106	18.	1		1500	181	721.	1		2115	256	21.
1		0235	32	0.	1		0850	107	18.	1		1505	182	654.	1		2120	257	21.
1		0240	33	0.	1		0855	108	18.	1		1510	183	591.	1		2125	258	21.
1		0245	34	0.	1		0900	109	18.	1		1515	184	535.	1		2130	259	21.
1		0250	35	0.	1		0905	110	18.	1		1520	185	487.	1		2135	260	20.
1		0255	36	0.	1		0910	111	19.	1		1525	186	443.	1		2140	261	20.
1		0300	37	0.	1		0915	112	19.	1		1530	187	409.	1		2145	262	20.
1		0305	38	0.	1		0920	113	19.	1		1535	188	378.	1		2150	263	20.
1		0310	39	0.	1		0925	114	19.	1		1540	189	352.	1		2155	264	19.
1		0315	40	0.	1		0930	115	19.	1		1545	190	329.	1		2200	265	19.
1		0320	41	0.	1		0935	116	19.	1		1550	191	309.	1		2205	266	19.

1	0325	42	1.	*	1	0940	117	20.	*	1	1555	192	291.	*	1	2210	267	19.
1	0330	43	1.	*	1	0945	118	20.	*	1	1600	193	275.	*	1	2215	268	19.
1	0335	44	1.	*	1	0950	119	20.	*	1	1605	194	259.	*	1	2220	269	18.
1	0340	45	1.	*	1	0955	120	20.	*	1	1610	195	245.	*	1	2225	270	18.
1	0345	46	1.	*	1	1000	121	21.	*	1	1615	196	232.	*	1	2230	271	18.
1	0350	47	1.	*	1	1005	122	21.	*	1	1620	197	220.	*	1	2235	272	18.
1	0355	48	2.	*	1	1010	123	21.	*	1	1625	198	208.	*	1	2240	273	18.
1	0400	49	2.	*	1	1015	124	21.	*	1	1630	199	197.	*	1	2245	274	17.
1	0405	50	2.	*	1	1020	125	22.	*	1	1635	200	185.	*	1	2250	275	17.
1	0410	51	2.	*	1	1025	126	22.	*	1	1640	201	174.	*	1	2255	276	17.
1	0415	52	2.	*	1	1030	127	22.	*	1	1645	202	162.	*	1	2300	277	17.
1	0420	53	3.	*	1	1035	128	22.	*	1	1650	203	150.	*	1	2305	278	17.
1	0425	54	3.	*	1	1040	129	23.	*	1	1655	204	139.	*	1	2310	279	17.
1	0430	55	3.	*	1	1045	130	23.	*	1	1700	205	128.	*	1	2315	280	16.
1	0435	56	4.	*	1	1050	131	23.	*	1	1705	206	119.	*	1	2320	281	16.
1	0440	57	4.	*	1	1055	132	24.	*	1	1710	207	111.	*	1	2325	282	16.
1	0445	58	4.	*	1	1100	133	24.	*	1	1715	208	104.	*	1	2330	283	16.
1	0450	59	5.	*	1	1105	134	24.	*	1	1720	209	98.	*	1	2335	284	16.
1	0455	60	5.	*	1	1110	135	25.	*	1	1725	210	92.	*	1	2340	285	16.
1	0500	61	6.	*	1	1115	136	25.	*	1	1730	211	86.	*	1	2345	286	16.
1	0505	62	6.	*	1	1120	137	26.	*	1	1735	212	80.	*	1	2350	287	16.
1	0510	63	6.	*	1	1125	138	26.	*	1	1740	213	75.	*	1	2355	288	15.
1	0515	64	7.	*	1	1130	139	27.	*	1	1745	214	71.	*	2	0000	289	15.
1	0520	65	7.	*	1	1135	140	76.	*	1	1750	215	67.	*	2	0005	290	15.
1	0525	66	8.	*	1	1140	141	127.	*	1	1755	216	63.	*	2	0010	291	15.
1	0530	67	8.	*	1	1145	142	240.	*	1	1800	217	60.	*	2	0015	292	15.
1	0535	68	9.	*	1	1150	143	430.	*	1	1805	218	57.	*	2	0020	293	15.
1	0540	69	9.	*	1	1155	144	669.	*	1	1810	219	55.	*	2	0025	294	15.
1	0545	70	10.	*	1	1200	145	957.	*	1	1815	220	53.	*	2	0030	295	15.
1	0550	71	10.	*	1	1205	146	1240.	*	1	1820	221	51.	*	2	0035	296	15.
1	0555	72	11.	*	1	1210	147	1605.	*	1	1825	222	50.	*	2	0040	297	15.
1	0600	73	11.	*	1	1215	148	1990.	*	1	1830	223	48.	*	2	0045	298	14.
1	0605	74	12.	*	1	1220	149	2268.	*	1	1835	224	47.	*	2	0050	299	14.
1	0610	75	13.	*	1	1225	150	2482.	*	1	1840	225	45.	*	2	0055	300	14.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
6208.	13.08	(CFS)	1693.	437.	421.	421.
		(INCHES)	1.138	1.174	1.174	1.174
		(AC-FT)	840.	866.	866.	866.

CUMULATIVE AREA = 13.83 SQ MI

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          *            *
373 KK    *    2E-3E   *      Routing thru E4
          *            *
          **************

374 KO         OUTPUT CONTROL VARIABLES
                    IPRNT          2  PRINT CONTROL
                    IPLOT          0  PLOT CONTROL
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QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

HYDROGRAPH ROUTING DATA

375 RS STORAGE ROUTING

NSTPS	7	NUMBER OF SUBREACHES
ITYP	FLOW	TYPE OF INITIAL CONDITION
RSVRIC	.00	INITIAL CONDITION
X	.00	WORKING R AND D COEFFICIENT

376 RC NORMAL DEPTH CHANNEL

ANL	.056	LEFT OVERBANK N-VALUE
ANCH	.049	MAIN CHANNEL N-VALUE
ANR	.056	RIGHT OVERBANK N-VALUE
RLNTH	11000.	REACH LENGTH
SEL	.0060	ENERGY SLOPE
ELMAX	.0	MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

CROSS-SECTION DATA

		--- LEFT OVERBANK ---		+ ------ MAIN CHANNEL -------			+ --- RIGHT OVERBANK ---		
378 RY	ELEVATION	21.00	18.00	14.00	10.00	10.00	14.00	18.00	21.00
377 RX	DISTANCE	.00	60.00	180.00	225.00	237.00	272.00	422.00	472.00

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COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	2.60	6.89	12.88	20.56	29.93	41.00	53.77	70.60	93.14
OUTFLOW	.00	13.94	54.21	127.04	238.92	395.93	603.79	874.39	1281.56	1792.48
ELEVATION	10.00	10.58	11.16	11.74	12.32	12.89	13.47	14.05	14.63	15.21
STORAGE	121.39	155.36	195.04	240.43	291.49	346.53	404.68	465.92	530.27	597.73
OUTFLOW	2430.41	3214.85	4163.43	5292.49	6631.46	8234.52	10037.53	12043.17	14254.87	16676.58
ELEVATION	15.79	16.37	16.95	17.53	18.11	18.68	19.26	19.84	20.42	21.00

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HYDROGRAPH AT STATION 2E-3E
TRANSPOSITION AREA .0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
6375.	13.58	(CFS)	1847.	476.	459.	459.
		(INCHES)	1.242	1.281	1.281	1.281
		(AC-FT)	916.	945.	945.	945.

PEAK STORAGE	TIME		MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)		6-HR	24-HR	72-HR	24.92-HR
40.	13.58		13.	4.	3.	3.

PEAK STAGE	TIME		MAXIMUM AVERAGE STAGE			
(FEET)	(HR)		6-HR	24-HR	72-HR	24.92-HR
17.99	13.58		14.37	11.48	11.43	11.43

CUMULATIVE AREA = 13.83 SQ MI

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HYDROGRAPH AT STATION 2E-3E
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
6201.	13.58	(CFS)	1800.	464.	447.	447.
		(INCHES)	1.210	1.248	1.248	1.248
		(AC-FT)	893.	921.	921.	921.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
39.	13.58	13.	4.	3.	3.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
17.92	13.58	14.33	11.47	11.41	11.41

CUMULATIVE AREA = 13.83 SQ MI

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HYDROGRAPH AT STATION 2E-3E
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
5922.	13.67	(CFS)	1723.	444.	428.	428.
		(INCHES)	1.158	1.195	1.195	1.195
		(AC-FT)	854.	882.	882.	882.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
38.	13.67	12.	3.	3.	3.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
17.80	13.67	14.27	11.44	11.39	11.39

CUMULATIVE AREA = 13.83 SQ MI

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HYDROGRAPH AT STATION 2E-3E
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
5301.	13.67	(CFS)	1544.	399.	384.	384.
		(INCHES)	1.038	1.073	1.073	1.073
		(AC-FT)	766.	791.	791.	791.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE

(AC-FT)	(HR)		6-HR	24-HR	72-HR	24.92-HR
34.	13.67		11.	3.	3.	3.

PEAK STAGE	TIME		MAXIMUM AVERAGE STAGE			
(FEET)	(HR)		6-HR	24-HR	72-HR	24.92-HR
17.53	13.67		14.12	11.39	11.34	11.34

CUMULATIVE AREA = 13.83 SQ MI

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HYDROGRAPH AT STATION 2E-3E
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
5002.	13.67	(CFS)	1461.	378.	364.	364.
		(INCHES)	.982	1.016	1.016	1.016
		(AC-FT)	725.	749.	749.	749.

PEAK STORAGE	TIME		MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)		6-HR	24-HR	72-HR	24.92-HR
33.	13.67		11.	3.	3.	3.

PEAK STAGE	TIME		MAXIMUM AVERAGE STAGE			
(FEET)	(HR)		6-HR	24-HR	72-HR	24.92-HR
17.38	13.67		14.04	11.36	11.31	11.31

CUMULATIVE AREA = 13.83 SQ MI

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HYDROGRAPH AT STATION 2E-3E
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
4308.	13.75	(CFS)	1270.	329.	317.	317.
		(INCHES)	.854	.885	.885	.885
		(AC-FT)	630.	653.	653.	653.

PEAK STORAGE	TIME		MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)		6-HR	24-HR	72-HR	24.92-HR
29.	13.75		10.	3.	3.	3.

PEAK STAGE	TIME		MAXIMUM AVERAGE STAGE			
(FEET)	(HR)		6-HR	24-HR	72-HR	24.92-HR
17.02	13.75		13.86	11.30	11.25	11.25

CUMULATIVE AREA = 13.83 SQ MI

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INTERPOLATED HYDROGRAPH AT 2E-3E

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
					*						*						*					
1		0000	1	0.	*	1		0615	76	2.	*	1		1230	151	700.	*	1		1845	226	75.
1		0005	2	0.	*	1		0620	77	3.	*	1		1235	152	1098.	*	1		1850	227	71.
		0010	3	0.	*	1		0625	78	3.	*	1		1240	153	1460.	*	1		1855	228	67.
1		0015	4	0.	*	1		0630	79	3.	*	1		1245	154	1772.	*	1		1900	229	64.
1		0020	5	0.	*	1		0635	80	3.	*	1		1250	155	2070.	*	1		1905	230	61.
1		0025	6	0.	*	1		0640	81	4.	*	1		1255	156	2371.	*	1		1910	231	59.
1		0030	7	0.	*	1		0645	82	4.	*	1		1300	157	2705.	*	1		1915	232	57.
1		0035	8	0.	*	1		0650	83	4.	*	1		1305	158	3097.	*	1		1920	233	55.
1		0040	9	0.	*	1		0655	84	5.	*	1		1310	159	3575.	*	1		1925	234	54.
1		0045	10	0.	*	1		0700	85	5.	*	1		1315	160	4123.	*	1		1930	235	52.
1		0050	11	0.	*	1		0705	86	5.	*	1		1320	161	4695.	*	1		1935	236	51.
1		0055	12	0.	*	1		0710	87	6.	*	1		1325	162	5203.	*	1		1940	237	50.
1		0100	13	0.	*	1		0715	88	6.	*	1		1330	163	5581.	*	1		1945	238	49.
1		0105	14	0.	*	1		0720	89	7.	*	1		1335	164	5773.	*	1		1950	239	47.
1		0110	15	0.	*	1		0725	90	7.	*	1		1340	165	5796.	*	1		1955	240	46.
1		0115	16	0.	*	1		0730	91	7.	*	1		1345	166	5684.	*	1		2000	241	45.
1		0120	17	0.	*	1		0735	92	8.	*	1		1350	167	5471.	*	1		2005	242	43.
1		0125	18	0.	*	1		0740	93	8.	*	1		1355	168	5193.	*	1		2010	243	42.
1		0130	19	0.	*	1		0745	94	9.	*	1		1400	169	4881.	*	1		2015	244	41.
1		0135	20	0.	*	1		0750	95	9.	*	1		1405	170	4536.	*	1		2020	245	40.
1		0140	21	0.	*	1		0755	96	9.	*	1		1410	171	4181.	*	1		2025	246	39.
1		0145	22	0.	*	1		0800	97	10.	*	1		1415	172	3834.	*	1		2030	247	37.
1		0150	23	0.	*	1		0805	98	10.	*	1		1420	173	3492.	*	1		2035	248	36.
1		0155	24	0.	*	1		0810	99	11.	*	1		1425	174	3164.	*	1		2040	249	35.
1		0200	25	0.	*	1		0815	100	11.	*	1		1430	175	2859.	*	1		2045	250	34.
1		0205	26	0.	*	1		0820	101	11.	*	1		1435	176	2567.	*	1		2050	251	33.
1		0210	27	0.	*	1		0825	102	12.	*	1		1440	177	2296.	*	1		2055	252	32.
		0215	28	0.	*	1		0830	103	12.	*	1		1445	178	2046.	*	1		2100	253	32.
1		0220	29	0.	*	1		0835	104	13.	*	1		1450	179	1816.	*	1		2105	254	31.
1		0225	30	0.	*	1		0840	105	13.	*	1		1455	180	1609.	*	1		2110	255	30.
1		0230	31	0.	*	1		0845	106	14.	*	1		1500	181	1424.	*	1		2115	256	29.
1		0235	32	0.	*	1		0850	107	14.	*	1		1505	182	1259.	*	1		2120	257	29.
1		0240	33	0.	*	1		0855	108	15.	*	1		1510	183	1114.	*	1		2125	258	28.
1		0245	34	0.	*	1		0900	109	15.	*	1		1515	184	1000.	*	1		2130	259	27.
1		0250	35	0.	*	1		0905	110	15.	*	1		1520	185	910.	*	1		2135	260	27.
1		0255	36	0.	*	1		0910	111	16.	*	1		1525	186	840.	*	1		2140	261	26.
1		0300	37	0.	*	1		0915	112	16.	*	1		1530	187	778.	*	1		2145	262	26.
1		0305	38	0.	*	1		0920	113	16.	*	1		1535	188	718.	*	1		2150	263	25.
1		0310	39	0.	*	1		0925	114	16.	*	1		1540	189	661.	*	1		2155	264	25.
1		0315	40	0.	*	1		0930	115	17.	*	1		1545	190	611.	*	1		2200	265	24.
1		0320	41	0.	*	1		0935	116	17.	*	1		1550	191	569.	*	1		2205	266	24.
1		0325	42	0.	*	1		0940	117	17.	*	1		1555	192	528.	*	1		2210	267	23.
1		0330	43	0.	*	1		0945	118	17.	*	1		1600	193	489.	*	1		2215	268	23.
1		0335	44	0.	*	1		0950	119	17.	*	1		1605	194	454.	*	1		2220	269	23.
1		0340	45	0.	*	1		0955	120	17.	*	1		1610	195	422.	*	1		2225	270	22.
1		0345	46	0.	*	1		1000	121	18.	*	1		1615	196	395.	*	1		2230	271	22.
1		0350	47	0.	*	1		1005	122	18.	*	1		1620	197	373.	*	1		2235	272	22.
1		0355	48	0.	*	1		1010	123	18.	*	1		1625	198	352.	*	1		2240	273	21.
1		0400	49	0.	*	1		1015	124	18.	*	1		1630	199	331.	*	1		2245	274	21.
1		0405	50	0.	*	1		1020	125	18.	*	1		1635	200	312.	*	1		2250	275	21.
1		0410	51	0.	*	1		1025	126	19.	*	1		1640	201	294.	*	1		2255	276	20.
1		0415	52	0.	*	1		1030	127	19.	*	1		1645	202	277.	*	1		2300	277	20.
1		0420	53	0.	*	1		1035	128	19.	*	1		1650	203	263.	*	1		2305	278	20.
		0425	54	0.	*	1		1040	129	19.	*	1		1655	204	249.	*	1		2310	279	20.
1		0430	55	0.	*	1		1045	130	19.	*	1		1700	205	238.	*	1		2315	280	19.
1		0435	56	0.	*	1		1050	131	19.	*	1		1705	206	228.	*	1		2320	281	19.
1		0440	57	0.	*	1		1055	132	20.	*	1		1710	207	217.	*	1		2325	282	19.
1		0445	58	0.	*	1		1100	133	20.	*	1		1715	208	206.	*	1		2330	283	19.

1	0450	59	0.	*	1	1105	134	20.	*	1	1720	209	195.	*	1	2335	284	19.
1	0455	60	0.	*	1	1110	135	20.	*	1	1725	210	184.	*	1	2340	285	18.
1	0500	61	0.	*	1	1115	136	21.	*	1	1730	211	173.	*	1	2345	286	18.
1	0505	62	0.	*	1	1120	137	21.	*	1	1735	212	163.	*	1	2350	287	18.
1	0510	63	1.	*	1	1125	138	21.	*	1	1740	213	153.	*	1	2355	288	18.
1	0515	64	1.	*	1	1130	139	21.	*	1	1745	214	144.	*	2	0000	289	18.
1	0520	65	1.	*	1	1135	140	22.	*	1	1750	215	136.	*	2	0005	290	17.
1	0525	66	1.	*	1	1140	141	22.	*	1	1755	216	129.	*	2	0010	291	17.
1	0530	67	1.	*	1	1145	142	22.	*	1	1800	217	123.	*	2	0015	292	17.
1	0535	68	1.	*	1	1150	143	23.	*	1	1805	218	117.	*	2	0020	293	17.
1	0540	69	1.	*	1	1155	144	23.	*	1	1810	219	111.	*	2	0025	294	17.
1	0545	70	1.	*	1	1200	145	25.	*	1	1815	220	105.	*	2	0030	295	17.
1	0550	71	1.	*	1	1205	146	30.	*	1	1820	221	100.	*	2	0035	296	16.
1	0555	72	2.	*	1	1210	147	42.	*	1	1825	222	94.	*	2	0040	297	16.
1	0600	73	2.	*	1	1215	148	81.	*	1	1830	223	89.	*	2	0045	298	16.
1	0605	74	2.	*	1	1220	149	177.	*	1	1835	224	84.	*	2	0050	299	16.
1	0610	75	2.	*	1	1225	150	376.	*	1	1840	225	79.	*	2	0055	300	16.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
5796.	13.67	(CFS)	1687.	435.	419.	419.
		(INCHES)	1.134	1.171	1.171	1.171
		(AC-FT)	836.	863.	863.	863.

CUMULATIVE AREA = 13.83 SQ MI

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          *            *
379 KK    *        H1  *
          *            *
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BASIN H1
THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
L= 2.2 Lca= 1.0 S= 70.0 Kn= .060 LAG= 52.0
PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN

384 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

SUBBASIN RUNOFF DATA

385 BA SUBBASIN CHARACTERISTICS

TAREA	1.06	SUBBASIN AREA

386 LG GREEN AND AMPT LOSS RATE

STRTL	.17	STARTING LOSS
DTH	.35	MOISTURE DEFICIT
PSIF	3.07	WETTING FRONT SUCTION
XKSAT	.93	HYDRAULIC CONDUCTIVITY
RTIMP	.00	PERCENT IMPERVIOUS AREA

385 UI INPUT UNITGRAPH, 31 ORDINATES, VOLUME = 1.00

69.0	69.0	164.0	272.0	339.0	389.0	447.0	520.0	641.0	857.0
796.0	652.0	566.0	489.0	417.0	354.0	296.0	212.0	126.0	116.0
107.0	69.0	69.0	33.0	21.0	21.0	21.0	21.0	21.0	21.0
21.0									

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HYDROGRAPH AT STATION H1
TRANSPOSITION AREA .0 SQ MI

TOTAL RAINFALL = 4.20, TOTAL LOSS = 3.42, TOTAL EXCESS = .78

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
523.	12.67	(CFS)	89.	22.	21.	21.
		(INCHES)	.776	.776	.776	.776
		(AC-FT)	44.	44.	44.	44.

CUMULATIVE AREA = 1.06 SQ MI

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

HYDROGRAPH AT STATION H1
TRANSPOSITION AREA 5.0 SQ MI

TOTAL RAINFALL = 4.12, TOTAL LOSS = 3.38, TOTAL EXCESS = .74

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
499.	12.67	(CFS)	84.	21.	20.	20.
		(INCHES)	.741	.741	.741	.741
		(AC-FT)	42.	42.	42.	42.

CUMULATIVE AREA = 1.06 SQ MI

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

HYDROGRAPH AT STATION H1
TRANSPOSITION AREA 10.0 SQ MI

TOTAL RAINFALL = 3.99, TOTAL LOSS = 3.31, TOTAL EXCESS = .68

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
461.	12.67	(CFS)	78.	19.	19.	19.
		(INCHES)	.682	.682	.682	.682
		(AC-FT)	39.	39.	39.	39.

CUMULATIVE AREA = 1.06 SQ MI

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HYDROGRAPH AT STATION H1
TRANSPOSITION AREA 50.0 SQ MI

TOTAL RAINFALL = 3.70, TOTAL LOSS = 3.15, TOTAL EXCESS = .55

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
374.	12.67	(CFS)	63.	16.	15.	15.
		(INCHES)	.551	.551	.551	.551
		(AC-FT)	31.	31.	31.	31.

CUMULATIVE AREA = 1.06 SQ MI

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

HYDROGRAPH AT STATION H1
TRANSPOSITION AREA 100.0 SQ MI

TOTAL RAINFALL = 3.57, TOTAL LOSS = 3.08, TOTAL EXCESS = .49

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
335.	12.67	(CFS)	56.	14.	13.	13.
		(INCHES)	.491	.491	.491	.491
		(AC-FT)	28.	28.	28.	28.

CUMULATIVE AREA = 1.06 SQ MI

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

HYDROGRAPH AT STATION H1
TRANSPOSITION AREA 500.0 SQ MI

TOTAL RAINFALL = 3.28, TOTAL LOSS = 2.92, TOTAL EXCESS = .36

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
246.	12.67	(CFS)	41.	10.	10.	10.
		(INCHES)	.356	.356	.356	.356
		(AC-FT)	20.	20.	20.	20.

CUMULATIVE AREA = 1.06 SQ MI

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INTERPOLATED HYDROGRAPH AT H1

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	0.	1		1230	151	483.	1		1845	226	0.

1	0005	2	0.	*	1	0620	77	0.	*	1	1235	152	504.	*	1	1850	227	0.
1	0010	3	0.	*	1	0625	78	0.	*	1	1240	153	505.	*	1	1855	228	0.
1	0015	4	0.	*	1	0630	79	0.	*	1	1245	154	481.	*	1	1900	229	0.
1	0020	5	0.	*	1	0635	80	0.	*	1	1250	155	417.	*	1	1905	230	0.
1	0025	6	0.	*	1	0640	81	0.	*	1	1255	156	354.	*	1	1910	231	0.
1	0030	7	0.	*	1	0645	82	0.	*	1	1300	157	298.	*	1	1915	232	0.
1	0035	8	0.	*	1	0650	83	0.	*	1	1305	158	244.	*	1	1920	233	0.
1	0040	9	0.	*	1	0655	84	0.	*	1	1310	159	196.	*	1	1925	234	0.
1	0045	10	0.	*	1	0700	85	0.	*	1	1315	160	156.	*	1	1930	235	0.
1	0050	11	0.	*	1	0705	86	0.	*	1	1320	161	120.	*	1	1935	236	0.
1	0055	12	0.	*	1	0710	87	0.	*	1	1325	162	90.	*	1	1940	237	0.
1	0100	13	0.	*	1	0715	88	0.	*	1	1330	163	67.	*	1	1945	238	0.
1	0105	14	0.	*	1	0720	89	0.	*	1	1335	164	54.	*	1	1950	239	0.
1	0110	15	0.	*	1	0725	90	0.	*	1	1340	165	42.	*	1	1955	240	0.
1	0115	16	0.	*	1	0730	91	0.	*	1	1345	166	30.	*	1	2000	241	0.
1	0120	17	0.	*	1	0735	92	0.	*	1	1350	167	24.	*	1	2005	242	0.
1	0125	18	0.	*	1	0740	93	0.	*	1	1355	168	17.	*	1	2010	243	0.
1	0130	19	0.	*	1	0745	94	0.	*	1	1400	169	16.	*	1	2015	244	0.
1	0135	20	0.	*	1	0750	95	0.	*	1	1405	170	16.	*	1	2020	245	0.
1	0140	21	0.	*	1	0755	96	0.	*	1	1410	171	13.	*	1	2025	246	0.
1	0145	22	0.	*	1	0800	97	0.	*	1	1415	172	11.	*	1	2030	247	0.
1	0150	23	0.	*	1	0805	98	0.	*	1	1420	173	8.	*	1	2035	248	0.
1	0155	24	0.	*	1	0810	99	0.	*	1	1425	174	6.	*	1	2040	249	0.
1	0200	25	0.	*	1	0815	100	0.	*	1	1430	175	3.	*	1	2045	250	0.
1	0205	26	0.	*	1	0820	101	0.	*	1	1435	176	0.	*	1	2050	251	0.
1	0210	27	0.	*	1	0825	102	0.	*	1	1440	177	0.	*	1	2055	252	0.
1	0215	28	0.	*	1	0830	103	0.	*	1	1445	178	0.	*	1	2100	253	0.
1	0220	29	0.	*	1	0835	104	0.	*	1	1450	179	0.	*	1	2105	254	0.
1	0225	30	0.	*	1	0840	105	0.	*	1	1455	180	0.	*	1	2110	255	0.
1	0230	31	0.	*	1	0845	106	0.	*	1	1500	181	0.	*	1	2115	256	0.
1	0235	32	0.	*	1	0850	107	0.	*	1	1505	182	0.	*	1	2120	257	0.
1	0240	33	0.	*	1	0855	108	0.	*	1	1510	183	0.	*	1	2125	258	0.
1	0245	34	0.	*	1	0900	109	0.	*	1	1515	184	0.	*	1	2130	259	0.
1	0250	35	0.	*	1	0905	110	0.	*	1	1520	185	0.	*	1	2135	260	0.
1	0255	36	0.	*	1	0910	111	0.	*	1	1525	186	0.	*	1	2140	261	0.
1	0300	37	0.	*	1	0915	112	0.	*	1	1530	187	0.	*	1	2145	262	0.
1	0305	38	0.	*	1	0920	113	0.	*	1	1535	188	0.	*	1	2150	263	0.
1	0310	39	0.	*	1	0925	114	0.	*	1	1540	189	0.	*	1	2155	264	0.
1	0315	40	0.	*	1	0930	115	0.	*	1	1545	190	0.	*	1	2200	265	0.
1	0320	41	0.	*	1	0935	116	0.	*	1	1550	191	0.	*	1	2205	266	0.
1	0325	42	0.	*	1	0940	117	0.	*	1	1555	192	0.	*	1	2210	267	0.
1	0330	43	0.	*	1	0945	118	0.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	0.	*	1	0950	119	0.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	0.	*	1	0955	120	0.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	0.	*	1	1000	121	0.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	0.	*	1	1005	122	0.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	0.	*	1	1010	123	0.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	0.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	0.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	0.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	0.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	0.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	0.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	0.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	0.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	0.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	0.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	0.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	0.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	0.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.

1	0505	62	0.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	0.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	0.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	0.	*	1	1135	140	7.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	0.	*	1	1140	141	15.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	0.	*	1	1145	142	34.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	0.	*	1	1150	143	66.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	0.	*	1	1155	144	107.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	0.	*	1	1200	145	155.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	0.	*	1	1205	146	202.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	0.	*	1	1210	147	259.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	0.	*	1	1215	148	318.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	0.	*	1	1220	149	388.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	0.	*	1	1225	150	446.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
505.	12.67	(CFS)	85.	21.	21.	21.
		(INCHES)	.750	.750	.750	.750
		(AC-FT)	42.	42.	42.	42.

CUMULATIVE AREA = 1.06 SQ MI

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          *            *
392 KK    *   RTV-1H   *       Retrieve Divert 2F-D
          *            *
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393 DR RETRIEVE DIVERSION HYDROGRAPH
ISTAD 2F-D DIVERSION HYDROGRAPH IDENTIFICATION

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HYDROGRAPH AT STATION RTV-1H
TRANSPOSITION AREA .0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
734.	12.75	(CFS)	50.	13.	12.	12.
		(INCHES)	.441	.441	.441	.441
		(AC-FT)	25.	25.	25.	25.

CUMULATIVE AREA = 6.09 SQ MI

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HYDROGRAPH AT STATION RTV-1H
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		6-HR	MAXIMUM AVERAGE FLOW 24-HR	72-HR	24.92-HR
653.	12.75	(CFS)	43.	11.	10.	10.
		(INCHES)	.377	.377	.377	.377
		(AC-FT)	21.	21.	21.	21.

CUMULATIVE AREA = 6.09 SQ MI

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HYDROGRAPH AT STATION RTV-1H
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		6-HR	MAXIMUM AVERAGE FLOW 24-HR	72-HR	24.92-HR
522.	12.83	(CFS)	32.	8.	8.	8.
		(INCHES)	.280	.280	.280	.280
		(AC-FT)	16.	16.	16.	16.

CUMULATIVE AREA = 6.09 SQ MI

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HYDROGRAPH AT STATION RTV-1H
TRANSPOSITION AREA 50.0 SQ MI

FLOW (CFS)	TIME (HR)		6-HR	MAXIMUM AVERAGE FLOW 24-HR	72-HR	24.92-HR
258.	12.83	(CFS)	12.	3.	3.	3.
		(INCHES)	.102	.102	.102	.102
		(AC-FT)	6.	6.	6.	6.

CUMULATIVE AREA = 6.09 SQ MI

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HYDROGRAPH AT STATION RTV-1H
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		6-HR	MAXIMUM AVERAGE FLOW 24-HR	72-HR	24.92-HR
136.	12.83	(CFS)	5.	1.	1.	1.
		(INCHES)	.044	.044	.044	.044
		(AC-FT)	2.	2.	2.	2.

CUMULATIVE AREA = 6.09 SQ MI

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HYDROGRAPH AT STATION RTV-1H
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		6-HR	MAXIMUM AVERAGE FLOW 24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.

(INCHES)	.000	.000	.000	.000
(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 6.09 SQ MI

INTERPOLATED HYDROGRAPH AT RTV-1H

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	0.	1		1230	151	2.	1		1845	226	0.
1		0005	2	0.	1		0620	77	0.	1		1235	152	217.	1		1850	227	0.
1		0010	3	0.	1		0625	78	0.	1		1240	153	475.	1		1855	228	0.
1		0015	4	0.	1		0630	79	0.	1		1245	154	615.	1		1900	229	0.
1		0020	5	0.	1		0635	80	0.	1		1250	155	611.	1		1905	230	0.
1		0025	6	0.	1		0640	81	0.	1		1255	156	491.	1		1910	231	0.
1		0030	7	0.	1		0645	82	0.	1		1300	157	317.	1		1915	232	0.
1		0035	8	0.	1		0650	83	0.	1		1305	158	126.	1		1920	233	0.
1		0040	9	0.	1		0655	84	0.	1		1310	159	13.	1		1925	234	0.
1		0045	10	0.	1		0700	85	0.	1		1315	160	0.	1		1930	235	0.
1		0050	11	0.	1		0705	86	0.	1		1320	161	0.	1		1935	236	0.
1		0055	12	0.	1		0710	87	0.	1		1325	162	0.	1		1940	237	0.
1		0100	13	0.	1		0715	88	0.	1		1330	163	0.	1		1945	238	0.
1		0105	14	0.	1		0720	89	0.	1		1335	164	0.	1		1950	239	0.
1		0110	15	0.	1		0725	90	0.	1		1340	165	0.	1		1955	240	0.
1		0115	16	0.	1		0730	91	0.	1		1345	166	0.	1		2000	241	0.
1		0120	17	0.	1		0735	92	0.	1		1350	167	0.	1		2005	242	0.
1		0125	18	0.	1		0740	93	0.	1		1355	168	0.	1		2010	243	0.
1		0130	19	0.	1		0745	94	0.	1		1400	169	0.	1		2015	244	0.
1		0135	20	0.	1		0750	95	0.	1		1405	170	0.	1		2020	245	0.
1		0140	21	0.	1		0755	96	0.	1		1410	171	0.	1		2025	246	0.
1		0145	22	0.	1		0800	97	0.	1		1415	172	0.	1		2030	247	0.
1		0150	23	0.	1		0805	98	0.	1		1420	173	0.	1		2035	248	0.
1		0155	24	0.	1		0810	99	0.	1		1425	174	0.	1		2040	249	0.
1		0200	25	0.	1		0815	100	0.	1		1430	175	0.	1		2045	250	0.
1		0205	26	0.	1		0820	101	0.	1		1435	176	0.	1		2050	251	0.
1		0210	27	0.	1		0825	102	0.	1		1440	177	0.	1		2055	252	0.
1		0215	28	0.	1		0830	103	0.	1		1445	178	0.	1		2100	253	0.
1		0220	29	0.	1		0835	104	0.	1		1450	179	0.	1		2105	254	0.
1		0225	30	0.	1		0840	105	0.	1		1455	180	0.	1		2110	255	0.
1		0230	31	0.	1		0845	106	0.	1		1500	181	0.	1		2115	256	0.
1		0235	32	0.	1		0850	107	0.	1		1505	182	0.	1		2120	257	0.
1		0240	33	0.	1		0855	108	0.	1		1510	183	0.	1		2125	258	0.
1		0245	34	0.	1		0900	109	0.	1		1515	184	0.	1		2130	259	0.
1		0250	35	0.	1		0905	110	0.	1		1520	185	0.	1		2135	260	0.
1		0255	36	0.	1		0910	111	0.	1		1525	186	0.	1		2140	261	0.
1		0300	37	0.	1		0915	112	0.	1		1530	187	0.	1		2145	262	0.
1		0305	38	0.	1		0920	113	0.	1		1535	188	0.	1		2150	263	0.
1		0310	39	0.	1		0925	114	0.	1		1540	189	0.	1		2155	264	0.
1		0315	40	0.	1		0930	115	0.	1		1545	190	0.	1		2200	265	0.
1		0320	41	0.	1		0935	116	0.	1		1550	191	0.	1		2205	266	0.
1		0325	42	0.	1		0940	117	0.	1		1555	192	0.	1		2210	267	0.
1		0330	43	0.	1		0945	118	0.	1		1600	193	0.	1		2215	268	0.
1		0335	44	0.	1		0950	119	0.	1		1605	194	0.	1		2220	269	0.
1		0340	45	0.	1		0955	120	0.	1		1610	195	0.	1		2225	270	0.
1		0345	46	0.	1		1000	121	0.	1		1615	196	0.	1		2230	271	0.

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

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
615.	12.75	(CFS)	40.	10.	10.	10.
		(INCHES)	.061	.061	.061	.061
		(AC-FT)	20.	20.	20.	20.

CUMULATIVE AREA = 6.09 SQ MI

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          **************
          *            *
394 KK    *   D2F-2H   *      Routing DIV-2F to 1H
          *            *
          **************

395 KO         OUTPUT CONTROL VARIABLES
                    IPRNT          2  PRINT CONTROL
                    IPLOT          0  PLOT CONTROL
                    QSCAL          0.  HYDROGRAPH PLOT SCALE
                    IPNCH          0  PUNCH COMPUTED HYDROGRAPH
                     IOUT         22  SAVE HYDROGRAPH ON THIS UNIT
                    ISAV1          1  FIRST ORDINATE PUNCHED OR SAVED
                    ISAV2        300  LAST ORDINATE PUNCHED OR SAVED
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TIMINT .083 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

396 RS STORAGE ROUTING

NSTPS	4	NUMBER OF SUBREACHES
ITYP	FLOW	TYPE OF INITIAL CONDITION
RSVRIC	.00	INITIAL CONDITION
X	.00	WORKING R AND D COEFFICIENT

397 RC NORMAL DEPTH CHANNEL

ANL	.060	LEFT OVERBANK N-VALUE
ANCH	.050	MAIN CHANNEL N-VALUE
ANR	.045	RIGHT OVERBANK N-VALUE
RLNTH	2600.	REACH LENGTH
SEL	.0016	ENERGY SLOPE
ELMAX	.0	MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

CROSS-SECTION DATA

		--- LEFT OVERBANK ---		+ ------ MAIN CHANNEL -------			+ --- RIGHT OVERBANK ---		
399 RY	ELEVATION	17.00	16.00	15.00	10.00	10.00	15.00	16.00	17.00
398 RX	DISTANCE	.00	40.00	42.00	62.00	112.00	132.00	152.00	172.00

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COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	1.13	2.33	3.59	4.92	6.31	7.76	9.28	10.87	12.52
OUTFLOW	.00	11.28	36.17	71.85	117.35	172.20	236.14	309.05	390.90	481.71
ELEVATION	10.00	10.37	10.74	11.11	11.47	11.84	12.21	12.58	12.95	13.32
STORAGE	14.24	16.02	17.86	19.77	21.76	23.90	26.22	28.80	31.86	35.39
OUTFLOW	581.51	690.39	808.45	935.80	1082.31	1252.98	1436.79	1634.95	1851.62	2089.91
ELEVATION	13.68	14.05	14.42	14.79	15.16	15.53	15.89	16.26	16.63	17.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 936. TO 1635.
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.)

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

HYDROGRAPH AT STATION D2F-2H
TRANSPOSITION AREA .0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
630.	13.00	(CFS)	50.	13.	12.	12.
		(INCHES)	.077	.077	.077	.077
		(AC-FT)	25.	25.	25.	25.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
4.	13.00	0.	0.	0.	0.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
13.85	13.00	10.46	10.12	10.11	10.11

CUMULATIVE AREA = 6.09 SQ MI

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HYDROGRAPH AT STATION D2F-2H
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
538.	13.00	(CFS)	43.	11.	10.	10.
		(INCHES)	.066	.066	.066	.066
		(AC-FT)	21.	21.	21.	21.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
3.	13.00	0.	0.	0.	0.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
13.52	13.00	10.42	10.11	10.10	10.10

CUMULATIVE AREA = 6.09 SQ MI

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HYDROGRAPH AT STATION D2F-2H
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
403.	13.08	(CFS)	32.	8.	8.	8.
		(INCHES)	.049	.049	.049	.049
		(AC-FT)	16.	16.	16.	16.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
3.	13.08	0.	0.	0.	0.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
13.00	13.08	10.36	10.09	10.09	10.09

CUMULATIVE AREA = 6.09 SQ MI

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

HYDROGRAPH AT STATION D2F-2H
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
127.	13.17	(CFS)	12.	3.	3.	3.
		(INCHES)	.018	.018	.018	.018
		(AC-FT)	6.	6.	6.	6.

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

1.	13.17	0.	0.	0.	0.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
11.54	13.17	10.21	10.05	10.05	10.05

CUMULATIVE AREA = 6.09 SQ MI

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HYDROGRAPH AT STATION D2F-2H
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
38.	13.25	(CFS)	5.	1.	1.	1.
		(INCHES)	.008	.008	.008	.008
		(AC-FT)	2.	2.	2.	2.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
1.	13.25	0.	0.	0.	0.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
10.75	13.25	10.13	10.03	10.03	10.03

CUMULATIVE AREA = 6.09 SQ MI

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HYDROGRAPH AT STATION D2F-2H
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
0.	.08	(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
0.	.08	0.	0.	0.	0.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
10.00	.00	10.00	10.00	10.00	10.00

CUMULATIVE AREA = 6.09 SQ MI

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INTERPOLATED HYDROGRAPH AT D2F-2H

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DA MON HRMN	ORD	FLOW	*	DA MON HRMN	ORD	FLOW	*	DA MON HRMN	ORD	FLOW	*	DA MON HRMN	ORD	FLOW

				*					*					*					
1	0000	1	0.	*	1	0615	76	0.	*	1	1230	151	0.	*	1	1845	226	0.
1	0005	2	0.	*	1	0620	77	0.	*	1	1235	152	0.	*	1	1850	227	0.
1	0010	3	0.	*	1	0625	78	0.	*	1	1240	153	1.	*	1	1855	228	0.
1	0015	4	0.	*	1	0630	79	0.	*	1	1245	154	18.	*	1	1900	229	0.
1	0020	5	0.	*	1	0635	80	0.	*	1	1250	155	130.	*	1	1905	230	0.
1	0025	6	0.	*	1	0640	81	0.	*	1	1255	156	349.	*	1	1910	231	0.
1	0030	7	0.	*	1	0645	82	0.	*	1	1300	157	494.	*	1	1915	232	0.
1	0035	8	0.	*	1	0650	83	0.	*	1	1305	158	487.	*	1	1920	233	0.
1	0040	9	0.	*	1	0655	84	0.	*	1	1310	159	394.	*	1	1925	234	0.
1	0045	10	0.	*	1	0700	85	0.	*	1	1315	160	282.	*	1	1930	235	0.
1	0050	11	0.	*	1	0705	86	0.	*	1	1320	161	191.	*	1	1935	236	0.
1	0055	12	0.	*	1	0710	87	0.	*	1	1325	162	127.	*	1	1940	237	0.
1	0100	13	0.	*	1	0715	88	0.	*	1	1330	163	86.	*	1	1945	238	0.
1	0105	14	0.	*	1	0720	89	0.	*	1	1335	164	61.	*	1	1950	239	0.
1	0110	15	0.	*	1	0725	90	0.	*	1	1340	165	44.	*	1	1955	240	0.
1	0115	16	0.	*	1	0730	91	0.	*	1	1345	166	33.	*	1	2000	241	0.
1	0120	17	0.	*	1	0735	92	0.	*	1	1350	167	26.	*	1	2005	242	0.
1	0125	18	0.	*	1	0740	93	0.	*	1	1355	168	21.	*	1	2010	243	0.
1	0130	19	0.	*	1	0745	94	0.	*	1	1400	169	16.	*	1	2015	244	0.
1	0135	20	0.	*	1	0750	95	0.	*	1	1405	170	13.	*	1	2020	245	0.
1	0140	21	0.	*	1	0755	96	0.	*	1	1410	171	11.	*	1	2025	246	0.
1	0145	22	0.	*	1	0800	97	0.	*	1	1415	172	10.	*	1	2030	247	0.
1	0150	23	0.	*	1	0805	98	0.	*	1	1420	173	9.	*	1	2035	248	0.
1	0155	24	0.	*	1	0810	99	0.	*	1	1425	174	8.	*	1	2040	249	0.
1	0200	25	0.	*	1	0815	100	0.	*	1	1430	175	8.	*	1	2045	250	0.
1	0205	26	0.	*	1	0820	101	0.	*	1	1435	176	7.	*	1	2050	251	0.
1	0210	27	0.	*	1	0825	102	0.	*	1	1440	177	6.	*	1	2055	252	0.
1	0215	28	0.	*	1	0830	103	0.	*	1	1445	178	5.	*	1	2100	253	0.
1	0220	29	0.	*	1	0835	104	0.	*	1	1450	179	4.	*	1	2105	254	0.
1	0225	30	0.	*	1	0840	105	0.	*	1	1455	180	4.	*	1	2110	255	0.
1	0230	31	0.	*	1	0845	106	0.	*	1	1500	181	3.	*	1	2115	256	0.
1	0235	32	0.	*	1	0850	107	0.	*	1	1505	182	3.	*	1	2120	257	0.
1	0240	33	0.	*	1	0855	108	0.	*	1	1510	183	2.	*	1	2125	258	0.
1	0245	34	0.	*	1	0900	109	0.	*	1	1515	184	2.	*	1	2130	259	0.
1	0250	35	0.	*	1	0905	110	0.	*	1	1520	185	2.	*	1	2135	260	0.
1	0255	36	0.	*	1	0910	111	0.	*	1	1525	186	1.	*	1	2140	261	0.
1	0300	37	0.	*	1	0915	112	0.	*	1	1530	187	1.	*	1	2145	262	0.
1	0305	38	0.	*	1	0920	113	0.	*	1	1535	188	1.	*	1	2150	263	0.
1	0310	39	0.	*	1	0925	114	0.	*	1	1540	189	1.	*	1	2155	264	0.
1	0315	40	0.	*	1	0930	115	0.	*	1	1545	190	1.	*	1	2200	265	0.
1	0320	41	0.	*	1	0935	116	0.	*	1	1550	191	1.	*	1	2205	266	0.
1	0325	42	0.	*	1	0940	117	0.	*	1	1555	192	0.	*	1	2210	267	0.
1	0330	43	0.	*	1	0945	118	0.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	0.	*	1	0950	119	0.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	0.	*	1	0955	120	0.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	0.	*	1	1000	121	0.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	0.	*	1	1005	122	0.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	0.	*	1	1010	123	0.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	0.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	0.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	0.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	0.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	0.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	0.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	0.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	0.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	0.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	0.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	0.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.

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

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PEAK FLOW (CFS)	TIME (HR)		6-HR	MAXIMUM AVERAGE FLOW 24-HR	72-HR	24.92-HR
494.	13.00	(CFS)	40.	10.	10.	10.
		(INCHES)	.061	.061	.061	.061
		(AC-FT)	20.	20.	20.	20.

CUMULATIVE AREA = 6.09 SQ MI

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          **************
          *            *
400 KK    *        1H  *
          *            *
          **************
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Combining H1 & 2F-D

402 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

403 HC HYDROGRAPH COMBINATION

ICOMP	2	NUMBER OF HYDROGRAPHS TO COMBINE

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

HYDROGRAPH AT STATION 1H
TRANSPOSITION AREA .0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
938.	13.00	(CFS)	139.	35.	33.	33.
		(INCHES)	1.217	1.217	1.217	1.217
		(AC-FT)	69.	69.	69.	69.

CUMULATIVE AREA = 1.06 SQ MI

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

HYDROGRAPH AT STATION 1H
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
833.	13.00	(CFS)	127.	32.	31.	31.
		(INCHES)	1.117	1.117	1.117	1.117
		(AC-FT)	63.	63.	63.	63.

CUMULATIVE AREA = 1.06 SQ MI

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

HYDROGRAPH AT STATION 1H
TRANSPOSITION AREA 10.0 SQ MI

K FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
655.	13.00	(CFS)	110.	27.	26.	26.
		(INCHES)	.963	.963	.963	.963
		(AC-FT)	54.	54.	54.	54.

CUMULATIVE AREA = 1.06 SQ MI

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

HYDROGRAPH AT STATION 1H
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
374.	12.67	(CFS)	74.	19.	18.	18.
		(INCHES)	.653	.653	.653	.653
		(AC-FT)	37.	37.	37.	37.

CUMULATIVE AREA = 1.06 SQ MI

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

HYDROGRAPH AT STATION 1H
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
335.	12.67	(CFS)	61.	15.	15.	15.

(INCHES)	.535	.535	.535	.535
(AC-FT)	30.	30.	30.	30.

CUMULATIVE AREA = 1.06 SQ MI

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

HYDROGRAPH AT STATION 1H
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
246.	12.67	(CFS)	41.	10.	10.	10.
		(INCHES)	.356	.356	.356	.356
		(AC-FT)	20.	20.	20.	20.

CUMULATIVE AREA = 1.06 SQ MI

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INTERPOLATED HYDROGRAPH AT 1H

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	0.	1		1230	151	483.	1		1845	226	0.
1		0005	2	0.	1		0620	77	0.	1		1235	152	504.	1		1850	227	0.
1		0010	3	0.	1		0625	78	0.	1		1240	153	507.	1		1855	228	0.
1		0015	4	0.	1		0630	79	0.	1		1245	154	508.	1		1900	229	0.
1		0020	5	0.	1		0635	80	0.	1		1250	155	592.	1		1905	230	0.
1		0025	6	0.	1		0640	81	0.	1		1255	156	776.	1		1910	231	0.
1		0030	7	0.	1		0645	82	0.	1		1300	157	860.	1		1915	232	0.
1		0035	8	0.	1		0650	83	0.	1		1305	158	781.	1		1920	233	0.
1		0040	9	0.	1		0655	84	0.	1		1310	159	627.	1		1925	234	0.
1		0045	10	0.	1		0700	85	0.	1		1315	160	465.	1		1930	235	0.
1		0050	11	0.	1		0705	86	0.	1		1320	161	327.	1		1935	236	0.
1		0055	12	0.	1		0710	87	0.	1		1325	162	227.	1		1940	237	0.
1		0100	13	0.	1		0715	88	0.	1		1330	163	160.	1		1945	238	0.
1		0105	14	0.	1		0720	89	0.	1		1335	164	118.	1		1950	239	0.
1		0110	15	0.	1		0725	90	0.	1		1340	165	89.	1		1955	240	0.
1		0115	16	0.	1		0730	91	0.	1		1345	166	65.	1		2000	241	0.
1		0120	17	0.	1		0735	92	0.	1		1350	167	51.	1		2005	242	0.
1		0125	18	0.	1		0740	93	0.	1		1355	168	39.	1		2010	243	0.
1		0130	19	0.	1		0745	94	0.	1		1400	169	33.	1		2015	244	0.
1		0135	20	0.	1		0750	95	0.	1		1405	170	30.	1		2020	245	0.
1		0140	21	0.	1		0755	96	0.	1		1410	171	25.	1		2025	246	0.
1		0145	22	0.	1		0800	97	0.	1		1415	172	22.	1		2030	247	0.
1		0150	23	0.	1		0805	98	0.	1		1420	173	18.	1		2035	248	0.
1		0155	24	0.	1		0810	99	0.	1		1425	174	14.	1		2040	249	0.
1		0200	25	0.	1		0815	100	0.	1		1430	175	11.	1		2045	250	0.
1		0205	26	0.	1		0820	101	0.	1		1435	176	7.	1		2050	251	0.
1		0210	27	0.	1		0825	102	0.	1		1440	177	6.	1		2055	252	0.
1		0215	28	0.	1		0830	103	0.	1		1445	178	5.	1		2100	253	0.
1		0220	29	0.	1		0835	104	0.	1		1450	179	5.	1		2105	254	0.
1		0225	30	0.	1		0840	105	0.	1		1455	180	4.	1		2110	255	0.
1		0230	31	0.	1		0845	106	0.	1		1500	181	3.	1		2115	256	0.
1		0235	32	0.	1		0850	107	0.	1		1505	182	3.	1		2120	257	0.

1	0240	33	0.	*	1	0855	108	0.	*	1	1510	183	2.	*	1	2125	258	0.
1	0245	34	0.	*	1	0900	109	0.	*	1	1515	184	2.	*	1	2130	259	0.
1	0250	35	0.	*	1	0905	110	0.	*	1	1520	185	2.	*	1	2135	260	0.
1	0255	36	0.	*	1	0910	111	0.	*	1	1525	186	2.	*	1	2140	261	0.
1	0300	37	0.	*	1	0915	112	0.	*	1	1530	187	1.	*	1	2145	262	0.
1	0305	38	0.	*	1	0920	113	0.	*	1	1535	188	1.	*	1	2150	263	0.
1	0310	39	0.	*	1	0925	114	0.	*	1	1540	189	1.	*	1	2155	264	0.
1	0315	40	0.	*	1	0930	115	0.	*	1	1545	190	1.	*	1	2200	265	0.
1	0320	41	0.	*	1	0935	116	0.	*	1	1550	191	1.	*	1	2205	266	0.
1	0325	42	0.	*	1	0940	117	0.	*	1	1555	192	1.	*	1	2210	267	0.
1	0330	43	0.	*	1	0945	118	0.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	0.	*	1	0950	119	0.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	0.	*	1	0955	120	0.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	0.	*	1	1000	121	0.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	0.	*	1	1005	122	0.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	0.	*	1	1010	123	0.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	0.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	0.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	0.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	0.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	0.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	0.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	0.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	0.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	0.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	0.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	0.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	0.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	0.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	0.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	0.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	0.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	0.	*	1	1135	140	7.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	0.	*	1	1140	141	15.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	0.	*	1	1145	142	34.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	0.	*	1	1150	143	66.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	0.	*	1	1155	144	107.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	0.	*	1	1200	145	155.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	0.	*	1	1205	146	202.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	0.	*	1	1210	147	259.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	0.	*	1	1215	148	318.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	0.	*	1	1220	149	388.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	0.	*	1	1225	150	446.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
860.	13.00	(CFS)	130.	33.	31.	31.
		(INCHES)	1.142	1.142	1.142	1.142
		(AC-FT)	65.	65.	65.	65.

CUMULATIVE AREA = 1.06 SQ MI

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          **************
          *            *
404 KK    *   DIV-1H   *      Divert 1H-D
          *            *
          **************

    DT          DIVERSION
                     ISTAD       1H-D  DIVERSION HYDROGRAPH IDENTIFICATION

    DI              INFLOW    2183.00   2284.00   2413.00   2590.00   2823.00   3198.00   3307.00   3478.00

    DQ       DIVERTED FLOW        .00     17.00     76.00    192.00    369.00    693.00    783.00    926.00

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

                       DIVERSION HYDROGRAPH     1H-D
                      TRANSPOSITION AREA       .0 SQ MI

PEAK FLOW     TIME                              MAXIMUM AVERAGE FLOW
  (CFS)       (HR)                   6-HR        24-HR        72-HR     24.92-HR
     0.        .08       (CFS)         0.           0.           0.           0.
                        (INCHES)      .000         .000         .000         .000
                         (AC-FT)         0.           0.           0.           0.

                       CUMULATIVE AREA =    1.06 SQ MI


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

                       HYDROGRAPH AT STATION   DIV-1H
                      TRANSPOSITION AREA       .0 SQ MI

PEAK FLOW     TIME                              MAXIMUM AVERAGE FLOW
  (CFS)       (HR)                   6-HR        24-HR        72-HR     24.92-HR
    938.      13.00      (CFS)        139.          35.          33.          33.
                        (INCHES)     1.217        1.217        1.217        1.217
                         (AC-FT)        69.          69.          69.          69.

                       CUMULATIVE AREA =    1.06 SQ MI


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

                       DIVERSION HYDROGRAPH     1H-D
                      TRANSPOSITION AREA      5.0 SQ MI

PEAK FLOW     TIME                              MAXIMUM AVERAGE FLOW
  (CFS)       (HR)                   6-HR        24-HR        72-HR     24.92-HR
     0.        .08       (CFS)         0.           0.           0.           0.
                        (INCHES)      .000         .000         .000         .000
                         (AC-FT)         0.           0.           0.           0.

                       CUMULATIVE AREA =    1.06 SQ MI


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

                       HYDROGRAPH AT STATION   DIV-1H
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TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
[redacted]833.	13.00	(CFS)	127.	32.	31.	31.
		(INCHES)	1.117	1.117	1.117	1.117
		(AC-FT)	63.	63.	63.	63.

CUMULATIVE AREA = 1.06 SQ MI

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

DIVERSION HYDROGRAPH 1H-D
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 1.06 SQ MI

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

HYDROGRAPH AT STATION DIV-1H
TRANSPOSITION AREA 10.0 SQ MI

[redacted]K FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
655.	13.00	(CFS)	110.	27.	26.	26.
		(INCHES)	.963	.963	.963	.963
		(AC-FT)	54.	54.	54.	54.

CUMULATIVE AREA = 1.06 SQ MI

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

DIVERSION HYDROGRAPH 1H-D
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 1.06 SQ MI

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

HYDROGRAPH AT STATION DIV-1H
TRANSPOSITION AREA 50.0 SQ MI

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

374.	12.67	(CFS)	74.	19.	18.	18.
		(INCHES)	.653	.653	.653	.653
		(AC-FT)	37.	37.	37.	37.

CUMULATIVE AREA = 1.06 SQ MI

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

DIVERSION HYDROGRAPH 1H-D
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 1.06 SQ MI

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

HYDROGRAPH AT STATION DIV-1H
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
335.	12.67	(CFS)	61.	15.	15.	15.
		(INCHES)	.535	.535	.535	.535
		(AC-FT)	30.	30.	30.	30.

CUMULATIVE AREA = 1.06 SQ MI

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

DIVERSION HYDROGRAPH 1H-D
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 1.06 SQ MI

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

HYDROGRAPH AT STATION DIV-1H
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
246.	12.67	(CFS)	41.	10.	10.	10.
		(INCHES)	.356	.356	.356	.356
		(AC-FT)	20.	20.	20.	20.

CUMULATIVE AREA = 1.06 SQ MI

INTERPOLATED DIVERSION HYDROGRAPH AT 1H-D

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

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

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 1.06 SQ MI

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INTERPOLATED HYDROGRAPH AT DIV-1H

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	0.	*	1		1230	151	483.	*	1		1845	226	0.
1		0005	2	0.	*	1		0620	77	0.	*	1		1235	152	504.	*	1		1850	227	0.
1		0010	3	0.	*	1		0625	78	0.	*	1		1240	153	507.	*	1		1855	228	0.
1		0015	4	0.	*	1		0630	79	0.	*	1		1245	154	508.	*	1		1900	229	0.
1		0020	5	0.	*	1		0635	80	0.	*	1		1250	155	592.	*	1		1905	230	0.
1		0025	6	0.	*	1		0640	81	0.	*	1		1255	156	776.	*	1		1910	231	0.
1		0030	7	0.	*	1		0645	82	0.	*	1		1300	157	860.	*	1		1915	232	0.
1		0035	8	0.	*	1		0650	83	0.	*	1		1305	158	781.	*	1		1920	233	0.
1		0040	9	0.	*	1		0655	84	0.	*	1		1310	159	627.	*	1		1925	234	0.
		0045	10	0.	*	1		0700	85	0.	*	1		1315	160	465.	*	1		1930	235	0.
1		0050	11	0.	*	1		0705	86	0.	*	1		1320	161	327.	*	1		1935	236	0.
1		0055	12	0.	*	1		0710	87	0.	*	1		1325	162	227.	*	1		1940	237	0.
1		0100	13	0.	*	1		0715	88	0.	*	1		1330	163	160.	*	1		1945	238	0.
1		0105	14	0.	*	1		0720	89	0.	*	1		1335	164	118.	*	1		1950	239	0.

1	0110	15	0.	*	1	0725	90	0.	*	1	1340	165	89.	*	1	1955	240	0.
1	0115	16	0.	*	1	0730	91	0.	*	1	1345	166	65.	*	1	2000	241	0.
1	0120	17	0.	*	1	0735	92	0.	*	1	1350	167	51.	*	1	2005	242	0.
1	0125	18	0.	*	1	0740	93	0.	*	1	1355	168	39.	*	1	2010	243	0.
1	0130	19	0.	*	1	0745	94	0.	*	1	1400	169	33.	*	1	2015	244	0.
1	0135	20	0.	*	1	0750	95	0.	*	1	1405	170	30.	*	1	2020	245	0.
1	0140	21	0.	*	1	0755	96	0.	*	1	1410	171	25.	*	1	2025	246	0.
1	0145	22	0.	*	1	0800	97	0.	*	1	1415	172	22.	*	1	2030	247	0.
1	0150	23	0.	*	1	0805	98	0.	*	1	1420	173	18.	*	1	2035	248	0.
1	0155	24	0.	*	1	0810	99	0.	*	1	1425	174	14.	*	1	2040	249	0.
1	0200	25	0.	*	1	0815	100	0.	*	1	1430	175	11.	*	1	2045	250	0.
1	0205	26	0.	*	1	0820	101	0.	*	1	1435	176	7.	*	1	2050	251	0.
1	0210	27	0.	*	1	0825	102	0.	*	1	1440	177	6.	*	1	2055	252	0.
1	0215	28	0.	*	1	0830	103	0.	*	1	1445	178	5.	*	1	2100	253	0.
1	0220	29	0.	*	1	0835	104	0.	*	1	1450	179	5.	*	1	2105	254	0.
1	0225	30	0.	*	1	0840	105	0.	*	1	1455	180	4.	*	1	2110	255	0.
1	0230	31	0.	*	1	0845	106	0.	*	1	1500	181	3.	*	1	2115	256	0.
1	0235	32	0.	*	1	0850	107	0.	*	1	1505	182	3.	*	1	2120	257	0.
1	0240	33	0.	*	1	0855	108	0.	*	1	1510	183	2.	*	1	2125	258	0.
1	0245	34	0.	*	1	0900	109	0.	*	1	1515	184	2.	*	1	2130	259	0.
1	0250	35	0.	*	1	0905	110	0.	*	1	1520	185	2.	*	1	2135	260	0.
1	0255	36	0.	*	1	0910	111	0.	*	1	1525	186	2.	*	1	2140	261	0.
1	0300	37	0.	*	1	0915	112	0.	*	1	1530	187	1.	*	1	2145	262	0.
1	0305	38	0.	*	1	0920	113	0.	*	1	1535	188	1.	*	1	2150	263	0.
1	0310	39	0.	*	1	0925	114	0.	*	1	1540	189	1.	*	1	2155	264	0.
1	0315	40	0.	*	1	0930	115	0.	*	1	1545	190	1.	*	1	2200	265	0.
1	0320	41	0.	*	1	0935	116	0.	*	1	1550	191	1.	*	1	2205	266	0.
1	0325	42	0.	*	1	0940	117	0.	*	1	1555	192	1.	*	1	2210	267	0.
1	0330	43	0.	*	1	0945	118	0.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	0.	*	1	0950	119	0.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	0.	*	1	0955	120	0.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	0.	*	1	1000	121	0.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	0.	*	1	1005	122	0.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	0.	*	1	1010	123	0.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	0.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	0.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	0.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	0.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	0.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	0.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	0.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	0.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	0.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	0.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	0.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	0.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	0.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	0.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	0.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	0.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	0.	*	1	1135	140	7.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	0.	*	1	1140	141	15.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	0.	*	1	1145	142	34.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	0.	*	1	1150	143	66.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	0.	*	1	1155	144	107.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	0.	*	1	1200	145	155.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	0.	*	1	1205	146	202.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	0.	*	1	1210	147	259.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	0.	*	1	1215	148	318.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	0.	*	1	1220	149	388.	*	1	1835	224	0.	*	2	0050	299	0.

```
   1     0610   75        0.   *    1     1225  150      446.   *    1     1840  225        0.   *    2     0055  300        0.
                             *                                    *                                 *
*****************************************************************************************************************************************

  FLOW     TIME                                MAXIMUM AVERAGE FLOW
 (CFS)     (HR)                    6-HR        24-HR        72-HR      24.92-HR
  860.    13.00          (CFS)      130.          33.          31.          31.
                        (INCHES)   1.142        1.142        1.142        1.142
                         (AC-FT)     65.          65.          65.          65.

                        CUMULATIVE AREA =    1.06 SQ MI


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


          **************
          *            *
408 KK    *     1H-3E  *       Routing thru H2
          *            *
          **************

409 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          2  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL         0.  HYDROGRAPH PLOT SCALE
                     IPNCH          0  PUNCH COMPUTED HYDROGRAPH
                      IOUT         22  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


               HYDROGRAPH ROUTING DATA

410 RS          STORAGE ROUTING
                     NSTPS         18  NUMBER OF SUBREACHES
                      ITYP       FLOW  TYPE OF INITIAL CONDITION
                     RSVRIC        .00  INITIAL CONDITION
                         X         .00 WORKING R AND D COEFFICIENT

411 RC          NORMAL DEPTH CHANNEL
                       ANL       .053  LEFT OVERBANK N-VALUE
                      ANCH       .050  MAIN CHANNEL N-VALUE
                       ANR       .053  RIGHT OVERBANK N-VALUE
                     RLNTH      19810.  REACH LENGTH
                       SEL      .0100  ENERGY SLOPE
                     ELMAX         .0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                        CROSS-SECTION DATA
                              --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
413 RY          ELEVATION     15.00     14.00     12.00     10.00     10.00     12.00     14.00     15.00
413 RX          DISTANCE        .00    110.00    210.00    245.00    275.00    310.00    410.00    520.00

                                                    ***

                                  COMPUTED STORAGE-OUTFLOW-ELEVATION DATA
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STORAGE	.00	4.14	9.39	15.73	23.18	31.73	41.38	52.14	64.16	78.96
OUTFLOW	.00	10.27	34.89	73.47	126.98	196.62	283.63	389.28	526.39	706.63
ELEVATION	10.00	10.26	10.53	10.79	11.05	11.32	11.58	11.84	12.11	12.37
STORAGE	96.91	118.01	142.27	169.67	200.21	233.91	271.97	316.88	368.72	427.49
OUTFLOW	920.15	1172.16	1467.17	1809.29	2202.36	2650.04	3117.07	3659.50	4294.50	5028.89
ELEVATION	12.63	12.89	13.16	13.42	13.68	13.95	14.21	14.47	14.74	15.00

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

HYDROGRAPH AT STATION 1H-3E
TRANSPOSITION AREA .0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
676.	13.92	(CFS)	137.	35.	33.	33.
		(INCHES)	1.204	1.217	1.217	1.217
		(AC-FT)	68.	69.	69.	69.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
4.	13.92	1.	0.	0.	0.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
12.32	13.92	10.82	10.22	10.21	10.21

CUMULATIVE AREA = 1.06 SQ MI

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HYDROGRAPH AT STATION 1H-3E
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
605.	14.00	(CFS)	126.	32.	31.	31.
		(INCHES)	1.105	1.117	1.117	1.117
		(AC-FT)	62.	63.	63.	63.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
4.	14.00	1.	0.	0.	0.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
12.22	14.00	10.80	10.21	10.20	10.20

CUMULATIVE AREA = 1.06 SQ MI

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

HYDROGRAPH AT STATION 1H-3E
TRANSPOSITION AREA 10.0 SQ MI

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

491.	14.00	(CFS)	108.	27.	26.	26.
		(INCHES)	.950	.963	.963	.963
		(AC-FT)	54.	54.	54.	54.

STORAGE	TIME		MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)		6-HR	24-HR	72-HR	24.92-HR
3.	14.00		1.	0.	0.	0.

PEAK STAGE	TIME		MAXIMUM AVERAGE STAGE			
(FEET)	(HR)		6-HR	24-HR	72-HR	24.92-HR
12.04	14.00		10.75	10.20	10.19	10.19

CUMULATIVE AREA = 1.06 SQ MI

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

HYDROGRAPH AT STATION 1H-3E
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
292.	14.08	(CFS)	73.	19.	18.	18.
		(INCHES)	.642	.653	.653	.653
		(AC-FT)	36.	37.	37.	37.

PEAK STORAGE	TIME		MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)		6-HR	24-HR	72-HR	24.92-HR
2.	14.08		1.	0.	0.	0.

K STAGE	TIME		MAXIMUM AVERAGE STAGE			
(FEET)	(HR)		6-HR	24-HR	72-HR	24.92-HR
11.60	14.08		10.64	10.17	10.16	10.16

CUMULATIVE AREA = 1.06 SQ MI

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

HYDROGRAPH AT STATION 1H-3E
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
239.	14.08	(CFS)	60.	15.	15.	15.
		(INCHES)	.526	.535	.535	.535
		(AC-FT)	30.	30.	30.	30.

PEAK STORAGE	TIME		MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)		6-HR	24-HR	72-HR	24.92-HR
2.	14.08		1.	0.	0.	0.

PEAK STAGE	TIME		MAXIMUM AVERAGE STAGE			
(FEET)	(HR)		6-HR	24-HR	72-HR	24.92-HR
11.44	14.08		10.58	10.15	10.15	10.15

CUMULATIVE AREA = 1.06 SQ MI

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HYDROGRAPH AT STATION 1H-3E
TRANSPOSITION AREA 500.0 SQ MI

FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
159.	14.25	(CFS)	40.	10.	10.	10.
		(INCHES)	.351	.356	.356	.356
		(AC-FT)	20.	20.	20.	20.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
2.	14.25	1.	0.	0.	0.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
11.17	14.25	10.47	10.12	10.12	10.12

CUMULATIVE AREA = 1.06 SQ MI

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INTERPOLATED HYDROGRAPH AT 1H-3E

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	0.	*	1		1230	151	0.	*	1		1845	226	9.
1		0005	2	0.	*	1		0620	77	0.	*	1		1235	152	0.	*	1		1850	227	9.
1		0010	3	0.	*	1		0625	78	0.	*	1		1240	153	0.	*	1		1855	228	9.
1		0015	4	0.	*	1		0630	79	0.	*	1		1245	154	0.	*	1		1900	229	8.
1		0020	5	0.	*	1		0635	80	0.	*	1		1250	155	0.	*	1		1905	230	8.
1		0025	6	0.	*	1		0640	81	0.	*	1		1255	156	0.	*	1		1910	231	8.
1		0030	7	0.	*	1		0645	82	0.	*	1		1300	157	0.	*	1		1915	232	7.
1		0035	8	0.	*	1		0650	83	0.	*	1		1305	158	0.	*	1		1920	233	7.
1		0040	9	0.	*	1		0655	84	0.	*	1		1310	159	0.	*	1		1925	234	7.
1		0045	10	0.	*	1		0700	85	0.	*	1		1315	160	1.	*	1		1930	235	7.
1		0050	11	0.	*	1		0705	86	0.	*	1		1320	161	6.	*	1		1935	236	6.
1		0055	12	0.	*	1		0710	87	0.	*	1		1325	162	33.	*	1		1940	237	6.
1		0100	13	0.	*	1		0715	88	0.	*	1		1330	163	112.	*	1		1945	238	6.
1		0105	14	0.	*	1		0720	89	0.	*	1		1335	164	241.	*	1		1950	239	5.
1		0110	15	0.	*	1		0725	90	0.	*	1		1340	165	385.	*	1		1955	240	5.
1		0115	16	0.	*	1		0730	91	0.	*	1		1345	166	508.	*	1		2000	241	5.
1		0120	17	0.	*	1		0735	92	0.	*	1		1350	167	585.	*	1		2005	242	4.
1		0125	18	0.	*	1		0740	93	0.	*	1		1355	168	621.	*	1		2010	243	4.
1		0130	19	0.	*	1		0745	94	0.	*	1		1400	169	623.	*	1		2015	244	4.
1		0135	20	0.	*	1		0750	95	0.	*	1		1405	170	598.	*	1		2020	245	4.
1		0140	21	0.	*	1		0755	96	0.	*	1		1410	171	555.	*	1		2025	246	3.
1		0145	22	0.	*	1		0800	97	0.	*	1		1415	172	504.	*	1		2030	247	3.
1		0150	23	0.	*	1		0805	98	0.	*	1		1420	173	452.	*	1		2035	248	3.
1		0155	24	0.	*	1		0810	99	0.	*	1		1425	174	403.	*	1		2040	249	3.
1		0200	25	0.	*	1		0815	100	0.	*	1		1430	175	362.	*	1		2045	250	2.
1		0205	26	0.	*	1		0820	101	0.	*	1		1435	176	324.	*	1		2050	251	2.
1		0210	27	0.	*	1		0825	102	0.	*	1		1440	177	288.	*	1		2055	252	2.
1		0215	28	0.	*	1		0830	103	0.	*	1		1445	178	256.	*	1		2100	253	2.
1		0220	29	0.	*	1		0835	104	0.	*	1		1450	179	227.	*	1		2105	254	2.
1		0225	30	0.	*	1		0840	105	0.	*	1		1455	180	200.	*	1		2110	255	2.
1		0230	31	0.	*	1		0845	106	0.	*	1		1500	181	178.	*	1		2115	256	1.

1	0235	32	0.	*	1	0850	107	0.	*	1	1505	182	158.	*	1	2120	257	1.
1	0240	33	0.	*	1	0855	108	0.	*	1	1510	183	141.	*	1	2125	258	1.
1	0245	34	0.	*	1	0900	109	0.	*	1	1515	184	125.	*	1	2130	259	1.
1	0250	35	0.	*	1	0905	110	0.	*	1	1520	185	113.	*	1	2135	260	1.
1	0255	36	0.	*	1	0910	111	0.	*	1	1525	186	101.	*	1	2140	261	1.
1	0300	37	0.	*	1	0915	112	0.	*	1	1530	187	91.	*	1	2145	262	1.
1	0305	38	0.	*	1	0920	113	0.	*	1	1535	188	82.	*	1	2150	263	1.
1	0310	39	0.	*	1	0925	114	0.	*	1	1540	189	74.	*	1	2155	264	1.
1	0315	40	0.	*	1	0930	115	0.	*	1	1545	190	68.	*	1	2200	265	1.
1	0320	41	0.	*	1	0935	116	0.	*	1	1550	191	62.	*	1	2205	266	1.
1	0325	42	0.	*	1	0940	117	0.	*	1	1555	192	57.	*	1	2210	267	0.
1	0330	43	0.	*	1	0945	118	0.	*	1	1600	193	51.	*	1	2215	268	0.
1	0335	44	0.	*	1	0950	119	0.	*	1	1605	194	47.	*	1	2220	269	0.
1	0340	45	0.	*	1	0955	120	0.	*	1	1610	195	43.	*	1	2225	270	0.
1	0345	46	0.	*	1	1000	121	0.	*	1	1615	196	39.	*	1	2230	271	0.
1	0350	47	0.	*	1	1005	122	0.	*	1	1620	197	36.	*	1	2235	272	0.
1	0355	48	0.	*	1	1010	123	0.	*	1	1625	198	34.	*	1	2240	273	0.
1	0400	49	0.	*	1	1015	124	0.	*	1	1630	199	32.	*	1	2245	274	0.
1	0405	50	0.	*	1	1020	125	0.	*	1	1635	200	30.	*	1	2250	275	0.
1	0410	51	0.	*	1	1025	126	0.	*	1	1640	201	28.	*	1	2255	276	0.
1	0415	52	0.	*	1	1030	127	0.	*	1	1645	202	26.	*	1	2300	277	0.
1	0420	53	0.	*	1	1035	128	0.	*	1	1650	203	24.	*	1	2305	278	0.
1	0425	54	0.	*	1	1040	129	0.	*	1	1655	204	22.	*	1	2310	279	0.
1	0430	55	0.	*	1	1045	130	0.	*	1	1700	205	21.	*	1	2315	280	0.
1	0435	56	0.	*	1	1050	131	0.	*	1	1705	206	19.	*	1	2320	281	0.
1	0440	57	0.	*	1	1055	132	0.	*	1	1710	207	18.	*	1	2325	282	0.
1	0445	58	0.	*	1	1100	133	0.	*	1	1715	208	16.	*	1	2330	283	0.
1	0450	59	0.	*	1	1105	134	0.	*	1	1720	209	15.	*	1	2335	284	0.
1	0455	60	0.	*	1	1110	135	0.	*	1	1725	210	14.	*	1	2340	285	0.
1	0500	61	0.	*	1	1115	136	0.	*	1	1730	211	13.	*	1	2345	286	0.
1	0505	62	0.	*	1	1120	137	0.	*	1	1735	212	12.	*	1	2350	287	0.
1	0510	63	0.	*	1	1125	138	0.	*	1	1740	213	12.	*	1	2355	288	0.
1	0515	64	0.	*	1	1130	139	0.	*	1	1745	214	11.	*	2	0000	289	0.
1	0520	65	0.	*	1	1135	140	0.	*	1	1750	215	11.	*	2	0005	290	0.
1	0525	66	0.	*	1	1140	141	0.	*	1	1755	216	11.	*	2	0010	291	0.
1	0530	67	0.	*	1	1145	142	0.	*	1	1800	217	10.	*	2	0015	292	0.
1	0535	68	0.	*	1	1150	143	0.	*	1	1805	218	10.	*	2	0020	293	0.
1	0540	69	0.	*	1	1155	144	0.	*	1	1810	219	10.	*	2	0025	294	0.
1	0545	70	0.	*	1	1200	145	0.	*	1	1815	220	10.	*	2	0030	295	0.
1	0550	71	0.	*	1	1205	146	0.	*	1	1820	221	10.	*	2	0035	296	0.
1	0555	72	0.	*	1	1210	147	0.	*	1	1825	222	10.	*	2	0040	297	0.
1	0600	73	0.	*	1	1215	148	0.	*	1	1830	223	10.	*	2	0045	298	0.
1	0605	74	0.	*	1	1220	149	0.	*	1	1835	224	9.	*	2	0050	299	0.
1	0610	75	0.	*	1	1225	150	0.	*	1	1840	225	9.	*	2	0055	300	0.
				*					*					*				

****

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
623.	14.00	(CFS)	129.	33.	31.	31.
		(INCHES)	1.129	1.142	1.142	1.142
		(AC-FT)	64.	65.	65.	65.

CUMULATIVE AREA = 1.06 SQ MI

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          **************
          *            *
444 KK    *       E4   *
          *            *
          **************

                    BASIN E4
                     THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
                     L=      2.8  Lca=      1.4   S=   28.0  Kn= .050  LAG=  64.0
                     PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN

419 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL          0.  HYDROGRAPH PLOT SCALE
                      IPNCH          0  PUNCH COMPUTED HYDROGRAPH
                       IOUT         22  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


               SUBBASIN RUNOFF DATA

420 BA          SUBBASIN CHARACTERISTICS
                      TAREA        .79  SUBBASIN AREA

421 LG          GREEN AND AMPT LOSS RATE
                      STRTL        .17  STARTING LOSS
                        DTH        .34  MOISTURE DEFICIT
                       PSIF       4.28  WETTING FRONT SUCTION
                      XKSAT        .42  HYDRAULIC CONDUCTIVITY
                      RTIMP        .00  PERCENT IMPERVIOUS AREA

420 UI          INPUT UNITGRAPH,  38 ORDINATES,  VOLUME =  .99
                    41.0     41.0     47.0    139.0    171.0    202.0    228.0    253.0    286.0    322.0
                   388.0    495.0    521.0    431.0    374.0    336.0    298.0    261.0    231.0    202.0
                   172.0    127.0     83.0     72.0     68.0     59.0     41.0     41.0     30.0     13.0
                    13.0     13.0     13.0     13.0     13.0     13.0     13.0     13.0

                                                        ***

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

                       HYDROGRAPH AT STATION       E4
                      TRANSPOSITION AREA       .0 SQ MI

   TOTAL RAINFALL =    4.20, TOTAL LOSS =    3.06, TOTAL EXCESS =    1.14

PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
  (CFS)       (HR)                  6-HR       24-HR       72-HR     24.92-HR
   484.      12.83       (CFS)       96.         24.         23.         23.
                        (INCHES)    1.132       1.132       1.132       1.132
                        (AC-FT)      48.         48.         48.         48.

                      CUMULATIVE AREA =     .79 SQ MI

     ***              ***              ***              ***              ***
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HYDROGRAPH AT STATION E4
TRANSPOSITION AREA 5.0 SQ MI

TOTAL RAINFALL = 4.12, TOTAL LOSS = 3.01, TOTAL EXCESS = 1.11

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
470.	12.83	(CFS)	93.	23.	22.	22.
		(INCHES)	1.098	1.098	1.098	1.098
		(AC-FT)	46.	46.	46.	46.

CUMULATIVE AREA = .79 SQ MI

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

HYDROGRAPH AT STATION E4
TRANSPOSITION AREA 10.0 SQ MI

TOTAL RAINFALL = 3.99, TOTAL LOSS = 2.94, TOTAL EXCESS = 1.05

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
446.	12.83	(CFS)	89.	22.	21.	21.
		(INCHES)	1.042	1.042	1.042	1.042
		(AC-FT)	44.	44.	44.	44.

CUMULATIVE AREA = .79 SQ MI

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

HYDROGRAPH AT STATION E4
TRANSPOSITION AREA 50.0 SQ MI

TOTAL RAINFALL = 3.70, TOTAL LOSS = 2.78, TOTAL EXCESS = .92

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
392.	12.83	(CFS)	78.	19.	19.	19.
		(INCHES)	.915	.915	.915	.915
		(AC-FT)	39.	39.	39.	39.

CUMULATIVE AREA = .79 SQ MI

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

HYDROGRAPH AT STATION E4
TRANSPOSITION AREA 100.0 SQ MI

TOTAL RAINFALL = 3.57, TOTAL LOSS = 2.71, TOTAL EXCESS = .86

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
368.	12.83	(CFS)	73.	18.	18.	18.
		(INCHES)	.858	.858	.858	.858
		(AC-FT)	36.	36.	36.	36.

CUMULATIVE AREA = .79 SQ MI

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

HYDROGRAPH AT STATION E4
TRANSPOSITION AREA 500.0 SQ MI

TOTAL RAINFALL = 3.28, TOTAL LOSS = 2.55, TOTAL EXCESS = .73

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
313.	12.83	(CFS)	62.	15.	15.	15.
		(INCHES)	.728	.728	.728	.728
		(AC-FT)	31.	31.	31.	31.

CUMULATIVE AREA = .79 SQ MI

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INTERPOLATED HYDROGRAPH AT E4

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	0.	*	1		1230	151	364.	*	1		1845	226	0.
1		0005	2	0.	*	1		0620	77	0.	*	1		1235	152	418.	*	1		1850	227	0.
1		0010	3	0.	*	1		0625	78	0.	*	1		1240	153	452.	*	1		1855	228	0.
1		0015	4	0.	*	1		0630	79	0.	*	1		1245	154	470.	*	1		1900	229	0.
1		0020	5	0.	*	1		0635	80	0.	*	1		1250	155	474.	*	1		1905	230	0.
1		0025	6	0.	*	1		0640	81	0.	*	1		1255	156	458.	*	1		1910	231	0.
1		0030	7	0.	*	1		0645	82	0.	*	1		1300	157	415.	*	1		1915	232	0.
1		0035	8	0.	*	1		0650	83	0.	*	1		1305	158	361.	*	1		1920	233	0.
1		0040	9	0.	*	1		0655	84	0.	*	1		1310	159	318.	*	1		1925	234	0.
1		0045	10	0.	*	1		0700	85	0.	*	1		1315	160	280.	*	1		1930	235	0.
1		0050	11	0.	*	1		0705	86	0.	*	1		1320	161	241.	*	1		1935	236	0.
1		0055	12	0.	*	1		0710	87	0.	*	1		1325	162	202.	*	1		1940	237	0.
1		0100	13	0.	*	1		0715	88	0.	*	1		1330	163	166.	*	1		1945	238	0.
1		0105	14	0.	*	1		0720	89	0.	*	1		1335	164	136.	*	1		1950	239	0.
1		0110	15	0.	*	1		0725	90	0.	*	1		1340	165	109.	*	1		1955	240	0.
1		0115	16	0.	*	1		0730	91	0.	*	1		1345	166	84.	*	1		2000	241	0.
1		0120	17	0.	*	1		0735	92	0.	*	1		1350	167	68.	*	1		2005	242	0.
1		0125	18	0.	*	1		0740	93	0.	*	1		1355	168	58.	*	1		2010	243	0.
1		0130	19	0.	*	1		0745	94	0.	*	1		1400	169	47.	*	1		2015	244	0.
1		0135	20	0.	*	1		0750	95	0.	*	1		1405	170	37.	*	1		2020	245	0.
1		0140	21	0.	*	1		0755	96	0.	*	1		1410	171	28.	*	1		2025	246	0.
1		0145	22	0.	*	1		0800	97	0.	*	1		1415	172	23.	*	1		2030	247	0.
1		0150	23	0.	*	1		0805	98	0.	*	1		1420	173	18.	*	1		2035	248	0.
1		0155	24	0.	*	1		0810	99	0.	*	1		1425	174	14.	*	1		2040	249	0.
1		0200	25	0.	*	1		0815	100	0.	*	1		1430	175	14.	*	1		2045	250	0.
1		0205	26	0.	*	1		0820	101	0.	*	1		1435	176	14.	*	1		2050	251	0.
1		0210	27	0.	*	1		0825	102	0.	*	1		1440	177	14.	*	1		2055	252	0.
1		0215	28	0.	*	1		0830	103	0.	*	1		1445	178	12.	*	1		2100	253	0.
1		0220	29	0.	*	1		0835	104	0.	*	1		1450	179	10.	*	1		2105	254	0.
1		0225	30	0.	*	1		0840	105	0.	*	1		1455	180	7.	*	1		2110	255	0.
1		0230	31	0.	*	1		0845	106	0.	*	1		1500	181	5.	*	1		2115	256	0.
1		0235	32	0.	*	1		0850	107	0.	*	1		1505	182	2.	*	1		2120	257	0.
1		0240	33	0.	*	1		0855	108	0.	*	1		1510	183	0.	*	1		2125	258	0.
1		0245	34	0.	*	1		0900	109	0.	*	1		1515	184	0.	*	1		2130	259	0.

1	0250	35	0.	*	1	0905	110	0.	*	1	1520	185	0.	*	1	2135	260	0.
1	0255	36	0.	*	1	0910	111	0.	*	1	1525	186	0.	*	1	2140	261	0.
1	0300	37	0.	*	1	0915	112	0.	*	1	1530	187	0.	*	1	2145	262	0.
1	0305	38	0.	*	1	0920	113	0.	*	1	1535	188	0.	*	1	2150	263	0.
1	0310	39	0.	*	1	0925	114	0.	*	1	1540	189	0.	*	1	2155	264	0.
1	0315	40	0.	*	1	0930	115	0.	*	1	1545	190	0.	*	1	2200	265	0.
1	0320	41	0.	*	1	0935	116	0.	*	1	1550	191	0.	*	1	2205	266	0.
1	0325	42	0.	*	1	0940	117	0.	*	1	1555	192	0.	*	1	2210	267	0.
1	0330	43	0.	*	1	0945	118	0.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	0.	*	1	0950	119	0.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	0.	*	1	0955	120	0.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	0.	*	1	1000	121	0.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	0.	*	1	1005	122	0.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	0.	*	1	1010	123	0.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	0.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	0.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	0.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	0.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	0.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	0.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	0.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	0.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	0.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	0.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	0.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	0.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	0.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	0.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	0.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	0.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	0.	*	1	1135	140	7.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	0.	*	1	1140	141	15.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	0.	*	1	1145	142	23.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	0.	*	1	1150	143	49.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	0.	*	1	1155	144	80.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	0.	*	1	1200	145	117.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	0.	*	1	1205	146	152.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	0.	*	1	1210	147	192.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	0.	*	1	1215	148	236.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	0.	*	1	1220	149	270.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	0.	*	1	1225	150	310.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
474.	12.83	(CFS)	94.	24.	23.	23.
		(INCHES)	1.108	1.108	1.108	1.108
		(AC-FT)	47.	47.	47.	47.

CUMULATIVE AREA = .79 SQ MI

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427 KK     *        H2  *
           *            *
           **************
                  BASIN H2
                   THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
                   L=      3.8  Lca=      2.2   S=   53.0  Kn= .050  LAG=  75.0
                   PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN

432 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          2  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL          0.  HYDROGRAPH PLOT SCALE
                     IPNCH          0  PUNCH COMPUTED HYDROGRAPH
                      IOUT         22  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


               SUBBASIN RUNOFF DATA

433 BA          SUBBASIN CHARACTERISTICS
                     TAREA       1.42  SUBBASIN AREA

434 LG          GREEN AND AMPT LOSS RATE
                     STRTL        .17  STARTING LOSS
                       DTH        .35  MOISTURE DEFICIT
                      PSIF       3.64  WETTING FRONT SUCTION
                     XKSAT        .69  HYDRAULIC CONDUCTIVITY
                     RTIMP        .00  PERCENT IMPERVIOUS AREA

433 UI          INPUT UNITGRAPH,  44 ORDINATES,  VOLUME = 1.00
                   64.0     64.0     64.0    144.0    227.0    274.0    314.0    350.0    381.0    420.0
                  470.0    518.0    624.0    771.0    825.0    696.0    611.0    550.0    506.0    452.0
                  403.0    366.0    323.0    294.0    235.0    184.0    116.0    113.0    105.0    105.0
                   68.0     64.0     64.0     44.0     20.0     20.0     20.0     20.0     20.0     20.0
                   20.0     20.0     20.0     20.0

                                                        ***

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

                      HYDROGRAPH AT STATION       H2
                     TRANSPOSITION AREA       .0 SQ MI

   TOTAL RAINFALL =    4.20, TOTAL LOSS =    3.28, TOTAL EXCESS =     .92

PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
  (CFS)       (HR)                6-HR        24-HR        72-HR     24.92-HR
   630.     13.00       (CFS)      141.          35.          34.          34.
                       (INCHES)    .924         .924         .924         .924
                        (AC-FT)     70.          70.          70.          70.

                     CUMULATIVE AREA =    1.42 SQ MI

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

                      HYDROGRAPH AT STATION       H2
                     TRANSPOSITION AREA      5.0 SQ MI
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TOTAL RAINFALL = 4.12, TOTAL LOSS = 3.23, TOTAL EXCESS = .89

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
606.	13.00	(CFS)	136.	34.	33.	33.
		(INCHES)	.889	.889	.889	.889
		(AC-FT)	67.	67.	67.	67.

CUMULATIVE AREA = 1.42 SQ MI

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

HYDROGRAPH AT STATION H2
TRANSPOSITION AREA 10.0 SQ MI

TOTAL RAINFALL = 3.99, TOTAL LOSS = 3.16, TOTAL EXCESS = .83

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
567.	13.00	(CFS)	127.	32.	31.	31.
		(INCHES)	.831	.831	.831	.831
		(AC-FT)	63.	63.	63.	63.

CUMULATIVE AREA = 1.42 SQ MI

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

HYDROGRAPH AT STATION H2
TRANSPOSITION AREA 50.0 SQ MI

TOTAL RAINFALL = 3.70, TOTAL LOSS = 3.00, TOTAL EXCESS = .70

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
478.	13.00	(CFS)	107.	27.	26.	26.
		(INCHES)	.700	.700	.700	.700
		(AC-FT)	53.	53.	53.	53.

CUMULATIVE AREA = 1.42 SQ MI

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

HYDROGRAPH AT STATION H2
TRANSPOSITION AREA 100.0 SQ MI

TOTAL RAINFALL = 3.57, TOTAL LOSS = 2.93, TOTAL EXCESS = .64

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
438.	13.00	(CFS)	98.	24.	24.	24.
		(INCHES)	.640	.640	.640	.640
		(AC-FT)	48.	48.	48.	48.

CUMULATIVE AREA = 1.42 SQ MI

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

HYDROGRAPH AT STATION H2
TRANSPOSITION AREA 500.0 SQ MI

TOTAL RAINFALL = 3.28, TOTAL LOSS = 2.77, TOTAL EXCESS = .51

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
348.	13.00	(CFS)	77.	19.	19.	19.
		(INCHES)	.506	.506	.506	.506
		(AC-FT)	38.	38.	38.	38.

CUMULATIVE AREA = 1.42 SQ MI

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INTERPOLATED HYDROGRAPH AT H2

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	0.	1		1230	151	362.	1		1845	226	0.
1		0005	2	0.	1		0620	77	0.	1		1235	152	408.	1		1850	227	0.
1		0010	3	0.	1		0625	78	0.	1		1240	153	468.	1		1855	228	0.
1		0015	4	0.	1		0630	79	0.	1		1245	154	534.	1		1900	229	0.
1		0020	5	0.	1		0635	80	0.	1		1250	155	578.	1		1905	230	0.
1		0025	6	0.	1		0640	81	0.	1		1255	156	602.	1		1910	231	0.
1		0030	7	0.	1		0645	82	0.	1		1300	157	611.	1		1915	232	0.
1		0035	8	0.	1		0650	83	0.	1		1305	158	596.	1		1920	233	0.
1		0040	9	0.	1		0655	84	0.	1		1310	159	549.	1		1925	234	0.
1		0045	10	0.	1		0700	85	0.	1		1315	160	485.	1		1930	235	0.
1		0050	11	0.	1		0705	86	0.	1		1320	161	435.	1		1935	236	0.
1		0055	12	0.	1		0710	87	0.	1		1325	162	392.	1		1940	237	0.
1		0100	13	0.	1		0715	88	0.	1		1330	163	353.	1		1945	238	0.
1		0105	14	0.	1		0720	89	0.	1		1335	164	313.	1		1950	239	0.
1		0110	15	0.	1		0725	90	0.	1		1340	165	273.	1		1955	240	0.
1		0115	16	0.	1		0730	91	0.	1		1345	166	231.	1		2000	241	0.
1		0120	17	0.	1		0735	92	0.	1		1350	167	192.	1		2005	242	0.
1		0125	18	0.	1		0740	93	0.	1		1355	168	159.	1		2010	243	0.
1		0130	19	0.	1		0745	94	0.	1		1400	169	130.	1		2015	244	0.
1		0135	20	0.	1		0750	95	0.	1		1405	170	104.	1		2020	245	0.
1		0140	21	0.	1		0755	96	0.	1		1410	171	86.	1		2025	246	0.
1		0145	22	0.	1		0800	97	0.	1		1415	172	78.	1		2030	247	0.
1		0150	23	0.	1		0805	98	0.	1		1420	173	68.	1		2035	248	0.
1		0155	24	0.	1		0810	99	0.	1		1425	174	56.	1		2040	249	0.
1		0200	25	0.	1		0815	100	0.	1		1430	175	43.	1		2045	250	0.
1		0205	26	0.	1		0820	101	0.	1		1435	176	35.	1		2050	251	0.
1		0210	27	0.	1		0825	102	0.	1		1440	177	29.	1		2055	252	0.
1		0215	28	0.	1		0830	103	0.	1		1445	178	22.	1		2100	253	0.
1		0220	29	0.	1		0835	104	0.	1		1450	179	18.	1		2105	254	0.
1		0225	30	0.	1		0840	105	0.	1		1455	180	18.	1		2110	255	0.
1		0230	31	0.	1		0845	106	0.	1		1500	181	18.	1		2115	256	0.
1		0235	32	0.	1		0850	107	0.	1		1505	182	18.	1		2120	257	0.
1		0240	33	0.	1		0855	108	0.	1		1510	183	18.	1		2125	258	0.
1		0245	34	0.	1		0900	109	0.	1		1515	184	15.	1		2130	259	0.
1		0250	35	0.	1		0905	110	0.	1		1520	185	12.	1		2135	260	0.
1		0255	36	0.	1		0910	111	0.	1		1525	186	9.	1		2140	261	0.

1	0300	37	0.	*	1	0915	112	0.	*	1	1530	187	6.	*	1	2145	262	0.
1	0305	38	0.	*	1	0920	113	0.	*	1	1535	188	3.	*	1	2150	263	0.
1	0310	39	0.	*	1	0925	114	0.	*	1	1540	189	0.	*	1	2155	264	0.
1	0315	40	0.	*	1	0930	115	0.	*	1	1545	190	0.	*	1	2200	265	0.
1	0320	41	0.	*	1	0935	116	0.	*	1	1550	191	0.	*	1	2205	266	0.
1	0325	42	0.	*	1	0940	117	0.	*	1	1555	192	0.	*	1	2210	267	0.
1	0330	43	0.	*	1	0945	118	0.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	0.	*	1	0950	119	0.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	0.	*	1	0955	120	0.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	0.	*	1	1000	121	0.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	0.	*	1	1005	122	0.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	0.	*	1	1010	123	0.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	0.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	0.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	0.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	0.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	0.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	0.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	0.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	0.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	0.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	0.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	0.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	0.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	0.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	0.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	0.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	0.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	0.	*	1	1135	140	9.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	0.	*	1	1140	141	18.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	0.	*	1	1145	142	27.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	0.	*	1	1150	143	48.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	0.	*	1	1155	144	81.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	0.	*	1	1200	145	121.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	0.	*	1	1205	146	158.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	0.	*	1	1210	147	200.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	0.	*	1	1215	148	248.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	0.	*	1	1220	149	290.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	0.	*	1	1225	150	326.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
611.	13.00	(CFS)	137.	34.	33.	33.
		(INCHES)	.896	.896	.896	.896
		(AC-FT)	68.	68.	68.	68.

CUMULATIVE AREA = 1.42 SQ MI

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          *            *
441 KK    *         3E *
          *            *
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Combining E1+E2+E3+F1+F2+F3+F4 & E4 & H1 & H2

443 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

444 HC HYDROGRAPH COMBINATION

ICOMP	4	NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 3E
TRANSPOSITION AREA .0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
7168.	13.67	(CFS)	2212.	570.	549.	549.
		(INCHES)	1.203	1.241	1.241	1.241
		(AC-FT)	1097.	1131.	1131.	1131.

CUMULATIVE AREA = 17.10 SQ MI

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

HYDROGRAPH AT STATION 3E
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
6922.	13.67	(CFS)	2145.	553.	533.	533.
		(INCHES)	1.166	1.203	1.203	1.203
		(AC-FT)	1063.	1098.	1098.	1098.

CUMULATIVE AREA = 17.10 SQ MI

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

HYDROGRAPH AT STATION 3E
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
6534.	13.67	(CFS)	2036.	526.	506.	506.
		(INCHES)	1.107	1.143	1.143	1.143
		(AC-FT)	1010.	1043.	1043.	1043.

CUMULATIVE AREA = 17.10 SQ MI

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

HYDROGRAPH AT STATION 3E
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
5700.	13.67	(CFS)	1792.	464.	447.	447.
		(INCHES)	.974	1.008	1.008	1.008
		(AC-FT)	889.	920.	920.	920.

CUMULATIVE AREA = 17.10 SQ MI

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

HYDROGRAPH AT STATION 3E
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
5332.	13.67	(CFS)	1682.	436.	420.	420.
		(INCHES)	.915	.948	.948	.948
		(AC-FT)	834.	864.	864.	864.

CUMULATIVE AREA = 17.10 SQ MI

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

HYDROGRAPH AT STATION 3E
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
4509.	13.75	(CFS)	1441.	374.	360.	360.
		(INCHES)	.783	.813	.813	.813
		(AC-FT)	714.	742.	742.	742.

CUMULATIVE AREA = 17.10 SQ MI

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INTERPOLATED HYDROGRAPH AT 3E

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	2.	*	1		1230	151	1325.	*	1		1845	226	83.
1		0005	2	0.	*	1		0620	77	3.	*	1		1235	152	1806.	*	1		1850	227	79.
1		0010	3	0.	*	1		0625	78	3.	*	1		1240	153	2252.	*	1		1855	228	75.
1		0015	4	0.	*	1		0630	79	3.	*	1		1245	154	2634.	*	1		1900	229	72.
1		0020	5	0.	*	1		0635	80	3.	*	1		1250	155	2969.	*	1		1905	230	69.
1		0025	6	0.	*	1		0640	81	4.	*	1		1255	156	3271.	*	1		1910	231	66.
1		0030	7	0.	*	1		0645	82	4.	*	1		1300	157	3565.	*	1		1915	232	64.
1		0035	8	0.	*	1		0650	83	4.	*	1		1305	158	3885.	*	1		1920	233	62.
1		0040	9	0.	*	1		0655	84	5.	*	1		1310	159	4270.	*	1		1925	234	60.

1	0045	10	0.	*	1	0700	85	5.	*	1	1315	160	4715.	*	1	1930	235	59.
1	0050	11	0.	*	1	0705	86	5.	*	1	1320	161	5199.	*	1	1935	236	57.
1	0055	12	0.	*	1	0710	87	6.	*	1	1325	162	5637.	*	1	1940	237	55.
1	0100	13	0.	*	1	0715	88	6.	*	1	1330	163	5982.	*	1	1945	238	54.
1	0105	14	0.	*	1	0720	89	6.	*	1	1335	164	6187.	*	1	1950	239	52.
1	0110	15	0.	*	1	0725	90	7.	*	1	1340	165	6256.	*	1	1955	240	50.
1	0115	16	0.	*	1	0730	91	7.	*	1	1345	166	6187.	*	1	2000	241	49.
1	0120	17	0.	*	1	0735	92	8.	*	1	1350	167	6007.	*	1	2005	242	47.
1	0125	18	0.	*	1	0740	93	8.	*	1	1355	168	5740.	*	1	2010	243	46.
1	0130	19	0.	*	1	0745	94	8.	*	1	1400	169	5411.	*	1	2015	244	44.
1	0135	20	0.	*	1	0750	95	9.	*	1	1405	170	5036.	*	1	2020	245	43.
1	0140	21	0.	*	1	0755	96	9.	*	1	1410	171	4645.	*	1	2025	246	41.
1	0145	22	0.	*	1	0800	97	10.	*	1	1415	172	4265.	*	1	2030	247	40.
1	0150	23	0.	*	1	0805	98	10.	*	1	1420	173	3884.	*	1	2035	248	39.
1	0155	24	0.	*	1	0810	99	10.	*	1	1425	174	3519.	*	1	2040	249	38.
1	0200	25	0.	*	1	0815	100	11.	*	1	1430	175	3175.	*	1	2045	250	36.
1	0205	26	0.	*	1	0820	101	11.	*	1	1435	176	2850.	*	1	2050	251	35.
1	0210	27	0.	*	1	0825	102	12.	*	1	1440	177	2549.	*	1	2055	252	34.
1	0215	28	0.	*	1	0830	103	12.	*	1	1445	178	2269.	*	1	2100	253	33.
1	0220	29	0.	*	1	0835	104	12.	*	1	1450	179	2013.	*	1	2105	254	32.
1	0225	30	0.	*	1	0840	105	13.	*	1	1455	180	1785.	*	1	2110	255	31.
1	0230	31	0.	*	1	0845	106	13.	*	1	1500	181	1582.	*	1	2115	256	30.
1	0235	32	0.	*	1	0850	107	14.	*	1	1505	182	1400.	*	1	2120	257	30.
1	0240	33	0.	*	1	0855	108	14.	*	1	1510	183	1241.	*	1	2125	258	29.
1	0245	34	0.	*	1	0900	109	15.	*	1	1515	184	1115.	*	1	2130	259	28.
1	0250	35	0.	*	1	0905	110	15.	*	1	1520	185	1014.	*	1	2135	260	27.
1	0255	36	0.	*	1	0910	111	15.	*	1	1525	186	932.	*	1	2140	261	27.
1	0300	37	0.	*	1	0915	112	16.	*	1	1530	187	859.	*	1	2145	262	26.
1	0305	38	0.	*	1	0920	113	16.	*	1	1535	188	789.	*	1	2150	263	26.
1	0310	39	0.	*	1	0925	114	16.	*	1	1540	189	724.	*	1	2155	264	25.
1	0315	40	0.	*	1	0930	115	16.	*	1	1545	190	669.	*	1	2200	265	25.
1	0320	41	0.	*	1	0935	116	17.	*	1	1550	191	622.	*	1	2205	266	24.
1	0325	42	0.	*	1	0940	117	17.	*	1	1555	192	576.	*	1	2210	267	24.
1	0330	43	0.	*	1	0945	118	17.	*	1	1600	193	533.	*	1	2215	268	23.
1	0335	44	0.	*	1	0950	119	17.	*	1	1605	194	494.	*	1	2220	269	23.
1	0340	45	0.	*	1	0955	120	17.	*	1	1610	195	459.	*	1	2225	270	22.
1	0345	46	0.	*	1	1000	121	17.	*	1	1615	196	430.	*	1	2230	271	22.
1	0350	47	0.	*	1	1005	122	18.	*	1	1620	197	405.	*	1	2235	272	22.
1	0355	48	0.	*	1	1010	123	18.	*	1	1625	198	382.	*	1	2240	273	21.
1	0400	49	0.	*	1	1015	124	18.	*	1	1630	199	359.	*	1	2245	274	21.
1	0405	50	0.	*	1	1020	125	18.	*	1	1635	200	338.	*	1	2250	275	21.
1	0410	51	0.	*	1	1025	126	18.	*	1	1640	201	318.	*	1	2255	276	20.
1	0415	52	0.	*	1	1030	127	19.	*	1	1645	202	300.	*	1	2300	277	20.
1	0420	53	0.	*	1	1035	128	19.	*	1	1650	203	284.	*	1	2305	278	20.
1	0425	54	0.	*	1	1040	129	19.	*	1	1655	204	269.	*	1	2310	279	20.
1	0430	55	0.	*	1	1045	130	19.	*	1	1700	205	256.	*	1	2315	280	19.
1	0435	56	0.	*	1	1050	131	19.	*	1	1705	206	244.	*	1	2320	281	19.
1	0440	57	0.	*	1	1055	132	19.	*	1	1710	207	232.	*	1	2325	282	19.
1	0445	58	0.	*	1	1100	133	20.	*	1	1715	208	220.	*	1	2330	283	19.
1	0450	59	0.	*	1	1105	134	20.	*	1	1720	209	208.	*	1	2335	284	18.
1	0455	60	0.	*	1	1110	135	20.	*	1	1725	210	196.	*	1	2340	285	18.
1	0500	61	0.	*	1	1115	136	20.	*	1	1730	211	185.	*	1	2345	286	18.
1	0505	62	0.	*	1	1120	137	21.	*	1	1735	212	174.	*	1	2350	287	18.
1	0510	63	1.	*	1	1125	138	21.	*	1	1740	213	163.	*	1	2355	288	18.
1	0515	64	1.	*	1	1130	139	21.	*	1	1745	214	154.	*	2	0000	289	17.
1	0520	65	1.	*	1	1135	140	35.	*	1	1750	215	146.	*	2	0005	290	17.
1	0525	66	1.	*	1	1140	141	50.	*	1	1755	216	138.	*	2	0010	291	17.
1	0530	67	1.	*	1	1145	142	67.	*	1	1800	217	132.	*	2	0015	292	17.
1	0535	68	1.	*	1	1150	143	108.	*	1	1805	218	126.	*	2	0020	293	17.
1	0540	69	1.	*	1	1155	144	165.	*	1	1810	219	120.	*	2	0025	294	17.

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   1    0545   70        1.   *   1    1200  145      235.   *   1    1815  220      115.   *   2    0030  295      16.
   1    0550   71        1.   *   1    1205  146      303.   *   1    1820  221      109.   *   2    0035  296      16.
   1    0555   72        2.   *   1    1210  147      389.   *   1    1825  222      103.   *   2    0040  297      16.
   1    0600   73        2.   *   1    1215  148      509.   *   1    1830  223       98.   *   2    0045  298      16.
   1    0605   74        2.   *   1    1220  149      669.   *   1    1835  224       92.   *   2    0050  299      16.
   1    0610   75        2.   *   1    1225  150      929.   *   1    1840  225       88.   *   2    0055  300      16.
                            *                                  *                             *
*****************************************************************************************************************************************

 PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
   (CFS)       (HR)                 6-HR        24-HR       72-HR      24.92-HR
    6256.      13.67       (CFS)    1955.        505.        486.         486.
                           (INCHES) 1.063       1.098       1.098        1.098
                           (AC-FT)   969.        1002.       1002.        1002.

                           CUMULATIVE AREA =   17.10 SQ MI



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


            **************
            *            *
445 KK      *     3E-4E  *       Routing thru E5
            *            *
            **************

    KO          OUTPUT CONTROL VARIABLES
                     IPRNT          2  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL          0.  HYDROGRAPH PLOT SCALE
                     IPNCH          0  PUNCH COMPUTED HYDROGRAPH
                      IOUT         22  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


               HYDROGRAPH ROUTING DATA

447 RS         STORAGE ROUTING
                     NSTPS          9  NUMBER OF SUBREACHES
                      ITYP       FLOW  TYPE OF INITIAL CONDITION
                    RSVRIC        .00  INITIAL CONDITION
                         X        .00 WORKING R AND D COEFFICIENT

448 RC         NORMAL DEPTH CHANNEL
                       ANL       .060  LEFT OVERBANK N-VALUE
                      ANCH       .050  MAIN CHANNEL N-VALUE
                       ANR       .060  RIGHT OVERBANK N-VALUE
                     RLNTH      15000.  REACH LENGTH
                       SEL      .0045  ENERGY SLOPE
                     ELMAX         .0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION


                                    CROSS-SECTION DATA
                          --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
450 RY         ELEVATION    25.00     17.00     15.00     10.00     10.00     14.00     16.00     24.00
449 RX         DISTANCE       .00     60.00    130.00    140.00    160.00    170.00    240.00    300.00
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COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	5.92	12.81	20.66	29.48	39.26	53.05	76.33	113.78	161.35
OUTFLOW	.00	27.60	90.29	183.58	307.30	462.35	673.53	975.68	1424.96	2056.61
ELEVATION	10.00	10.79	11.58	12.37	13.16	13.95	14.74	15.53	16.32	17.11
STORAGE	214.37	270.60	330.05	392.72	458.61	527.72	600.05	675.59	754.30	835.06
OUTFLOW	2880.69	3868.75	5017.07	6324.86	7792.85	9422.74	11216.78	13177.63	15350.08	17811.24
ELEVATION	17.89	18.68	19.47	20.26	21.05	21.84	22.63	23.42	24.21	25.00

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

HYDROGRAPH AT STATION 3E-4E
TRANSPOSITION AREA .0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
6799.	14.25	(CFS)	2203.	568.	547.	547.
		(INCHES)	1.198	1.236	1.236	1.236
		(AC-FT)	1092.	1127.	1127.	1127.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
46.	14.17	17.	5.	4.	4.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
20.52	14.25	16.13	11.89	11.82	11.82

CUMULATIVE AREA = 17.10 SQ MI

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HYDROGRAPH AT STATION 3E-4E
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
6570.	14.25	(CFS)	2136.	551.	531.	531.
		(INCHES)	1.161	1.199	1.199	1.199
		(AC-FT)	1059.	1093.	1093.	1093.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
45.	14.25	17.	4.	4.	4.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
20.39	14.25	16.07	11.87	11.80	11.80

CUMULATIVE AREA = 17.10 SQ MI

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

HYDROGRAPH AT STATION 3E-4E
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
6192.	14.25	(CFS)	2028.	524.	504.	504.
		(INCHES)	1.103	1.139	1.139	1.139
		(AC-FT)	1005.	1039.	1039.	1039.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
43.	14.25	16.	4.	4.	4.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
20.18	14.25	15.96	11.84	11.77	11.77

CUMULATIVE AREA = 17.10 SQ MI

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

HYDROGRAPH AT STATION 3E-4E
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
5384.	14.33	(CFS)	1784.	462.	445.	445.
		(INCHES)	.970	1.004	1.004	1.004
		(AC-FT)	885.	916.	916.	916.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
39.	14.33	14.	4.	4.	4.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
19.70	14.33	15.71	11.76	11.69	11.69

CUMULATIVE AREA = 17.10 SQ MI

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HYDROGRAPH AT STATION 3E-4E
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
5037.	14.33	(CFS)	1674.	434.	418.	418.
		(INCHES)	.910	.943	.943	.943
		(AC-FT)	830.	860.	860.	860.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
37.	14.33	14.	4.	4.	4.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
19.49	14.33	15.59	11.72	11.66	11.66

CUMULATIVE AREA = 17.10 SQ MI

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

HYDROGRAPH AT STATION 3E-4E
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
4231.	14.42	(CFS)	1433.	372.	358.	358.
		(INCHES)	.779	.809	.809	.809
		(AC-FT)	711.	738.	738.	738.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
32.	14.42	12.	3.	3.	3.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
18.93	14.42	15.30	11.63	11.57	11.57

CUMULATIVE AREA = 17.10 SQ MI

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INTERPOLATED HYDROGRAPH AT 3E-4E

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	0.	*	1		1230	151	20.	*	1		1845	226	158.
1		0005	2	0.	*	1		0620	77	0.	*	1		1235	152	29.	*	1		1850	227	150.
1		0010	3	0.	*	1		0625	78	0.	*	1		1240	153	59.	*	1		1855	228	143.
1		0015	4	0.	*	1		0630	79	0.	*	1		1245	154	122.	*	1		1900	229	137.
1		0020	5	0.	*	1		0635	80	0.	*	1		1250	155	232.	*	1		1905	230	130.
1		0025	6	0.	*	1		0640	81	0.	*	1		1255	156	381.	*	1		1910	231	124.
1		0030	7	0.	*	1		0645	82	0.	*	1		1300	157	540.	*	1		1915	232	118.
1		0035	8	0.	*	1		0650	83	0.	*	1		1305	158	695.	*	1		1920	233	112.
1		0040	9	0.	*	1		0655	84	0.	*	1		1310	159	856.	*	1		1925	234	107.
1		0045	10	0.	*	1		0700	85	0.	*	1		1315	160	1054.	*	1		1930	235	102.
1		0050	11	0.	*	1		0705	86	0.	*	1		1320	161	1312.	*	1		1935	236	98.
1		0055	12	0.	*	1		0710	87	0.	*	1		1325	162	1674.	*	1		1940	237	94.
1		0100	13	0.	*	1		0715	88	0.	*	1		1330	163	2141.	*	1		1945	238	91.
1		0105	14	0.	*	1		0720	89	1.	*	1		1335	164	2684.	*	1		1950	239	89.
1		0110	15	0.	*	1		0725	90	1.	*	1		1340	165	3278.	*	1		1955	240	86.
1		0115	16	0.	*	1		0730	91	1.	*	1		1345	166	3855.	*	1		2000	241	84.
1		0120	17	0.	*	1		0735	92	1.	*	1		1350	167	4404.	*	1		2005	242	81.
1		0125	18	0.	*	1		0740	93	1.	*	1		1355	168	4907.	*	1		2010	243	79.
1		0130	19	0.	*	1		0745	94	1.	*	1		1400	169	5332.	*	1		2015	244	76.
1		0135	20	0.	*	1		0750	95	1.	*	1		1405	170	5644.	*	1		2020	245	73.
1		0140	21	0.	*	1		0755	96	1.	*	1		1410	171	5845.	*	1		2025	246	71.
1		0145	22	0.	*	1		0800	97	1.	*	1		1415	172	5922.	*	1		2030	247	69.
1		0150	23	0.	*	1		0805	98	1.	*	1		1420	173	5887.	*	1		2035	248	66.
1		0155	24	0.	*	1		0810	99	2.	*	1		1425	174	5757.	*	1		2040	249	64.
1		0200	25	0.	*	1		0815	100	2.	*	1		1430	175	5552.	*	1		2045	250	62.
1		0205	26	0.	*	1		0820	101	2.	*	1		1435	176	5297.	*	1		2050	251	60.

1	0210	27	0.	*	1	0825	102	2.	*	1	1440	177	5013.	*	1	2055	252	58.
1	0215	28	0.	*	1	0830	103	2.	*	1	1445	178	4718.	*	1	2100	253	56.
1	0220	29	0.	*	1	0835	104	2.	*	1	1450	179	4417.	*	1	2105	254	54.
1	0225	30	0.	*	1	0840	105	3.	*	1	1455	180	4112.	*	1	2110	255	53.
1	0230	31	0.	*	1	0845	106	3.	*	1	1500	181	3822.	*	1	2115	256	51.
1	0235	32	0.	*	1	0850	107	3.	*	1	1505	182	3551.	*	1	2120	257	49.
1	0240	33	0.	*	1	0855	108	3.	*	1	1510	183	3284.	*	1	2125	258	48.
1	0245	34	0.	*	1	0900	109	4.	*	1	1515	184	3031.	*	1	2130	259	46.
1	0250	35	0.	*	1	0905	110	4.	*	1	1520	185	2806.	*	1	2135	260	45.
1	0255	36	0.	*	1	0910	111	4.	*	1	1525	186	2603.	*	1	2140	261	43.
1	0300	37	0.	*	1	0915	112	4.	*	1	1530	187	2401.	*	1	2145	262	42.
1	0305	38	0.	*	1	0920	113	5.	*	1	1535	188	2213.	*	1	2150	263	41.
1	0310	39	0.	*	1	0925	114	5.	*	1	1540	189	2049.	*	1	2155	264	39.
1	0315	40	0.	*	1	0930	115	5.	*	1	1545	190	1907.	*	1	2200	265	38.
1	0320	41	0.	*	1	0935	116	5.	*	1	1550	191	1768.	*	1	2205	266	37.
1	0325	42	0.	*	1	0940	117	6.	*	1	1555	192	1632.	*	1	2210	267	36.
1	0330	43	0.	*	1	0945	118	6.	*	1	1600	193	1506.	*	1	2215	268	35.
1	0335	44	0.	*	1	0950	119	6.	*	1	1605	194	1392.	*	1	2220	269	34.
1	0340	45	0.	*	1	0955	120	7.	*	1	1610	195	1290.	*	1	2225	270	33.
1	0345	46	0.	*	1	1000	121	7.	*	1	1615	196	1188.	*	1	2230	271	32.
1	0350	47	0.	*	1	1005	122	8.	*	1	1620	197	1087.	*	1	2235	272	31.
1	0355	48	0.	*	1	1010	123	8.	*	1	1625	198	989.	*	1	2240	273	31.
1	0400	49	0.	*	1	1015	124	8.	*	1	1630	199	892.	*	1	2245	274	30.
1	0405	50	0.	*	1	1020	125	9.	*	1	1635	200	801.	*	1	2250	275	29.
1	0410	51	0.	*	1	1025	126	9.	*	1	1640	201	718.	*	1	2255	276	29.
1	0415	52	0.	*	1	1030	127	9.	*	1	1645	202	639.	*	1	2300	277	28.
1	0420	53	0.	*	1	1035	128	10.	*	1	1650	203	569.	*	1	2305	278	28.
1	0425	54	0.	*	1	1040	129	10.	*	1	1655	204	515.	*	1	2310	279	28.
1	0430	55	0.	*	1	1045	130	10.	*	1	1700	205	470.	*	1	2315	280	28.
1	0435	56	0.	*	1	1050	131	11.	*	1	1705	206	433.	*	1	2320	281	28.
1	0440	57	0.	*	1	1055	132	11.	*	1	1710	207	402.	*	1	2325	282	27.
1	0445	58	0.	*	1	1100	133	12.	*	1	1715	208	375.	*	1	2330	283	27.
1	0450	59	0.	*	1	1105	134	12.	*	1	1720	209	352.	*	1	2335	284	27.
1	0455	60	0.	*	1	1110	135	12.	*	1	1725	210	332.	*	1	2340	285	27.
1	0500	61	0.	*	1	1115	136	13.	*	1	1730	211	316.	*	1	2345	286	27.
1	0505	62	0.	*	1	1120	137	13.	*	1	1735	212	301.	*	1	2350	287	27.
1	0510	63	0.	*	1	1125	138	13.	*	1	1740	213	289.	*	1	2355	288	26.
1	0515	64	0.	*	1	1130	139	14.	*	1	1745	214	276.	*	2	0000	289	26.
1	0520	65	0.	*	1	1135	140	14.	*	1	1750	215	263.	*	2	0005	290	26.
1	0525	66	0.	*	1	1140	141	14.	*	1	1755	216	250.	*	2	0010	291	26.
1	0530	67	0.	*	1	1145	142	15.	*	1	1800	217	238.	*	2	0015	292	25.
1	0535	68	0.	*	1	1150	143	15.	*	1	1805	218	226.	*	2	0020	293	25.
1	0540	69	0.	*	1	1155	144	15.	*	1	1810	219	215.	*	2	0025	294	25.
1	0545	70	0.	*	1	1200	145	15.	*	1	1815	220	204.	*	2	0030	295	24.
1	0550	71	0.	*	1	1205	146	16.	*	1	1820	221	194.	*	2	0035	296	24.
1	0555	72	0.	*	1	1210	147	16.	*	1	1825	222	186.	*	2	0040	297	24.
1	0600	73	0.	*	1	1215	148	16.	*	1	1830	223	179.	*	2	0045	298	24.
1	0605	74	0.	*	1	1220	149	17.	*	1	1835	224	172.	*	2	0050	299	23.
1	0610	75	0.	*	1	1225	150	18.	*	1	1840	225	165.	*	2	0055	300	23.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
5922.	14.25	(CFS)	1946.	503.	484.	484.
		(INCHES)	1.058	1.094	1.094	1.094
		(AC-FT)	965.	998.	998.	998.

CUMULATIVE AREA = 17.10 SQ MI

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

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          *            *
451 KK    *        J1  *
          *            *
          **************
                      BASIN J1
                       THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
                       L=      3.3  Lca=      1.4   S=   88.0  Kn= .060  LAG=  66.0
                       PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN

456 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL          0.  HYDROGRAPH PLOT SCALE
                      IPNCH          0  PUNCH COMPUTED HYDROGRAPH
                       IOUT         22  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


              SUBBASIN RUNOFF DATA

    BA          SUBBASIN CHARACTERISTICS
                      TAREA       1.77  SUBBASIN AREA

458 LG          GREEN AND AMPT LOSS RATE
                      STRTL        .17  STARTING LOSS
                        DTH        .35  MOISTURE DEFICIT
                       PSIF       3.71  WETTING FRONT SUCTION
                      XKSAT        .65  HYDRAULIC CONDUCTIVITY
                      RTIMP        .00  PERCENT IMPERVIOUS AREA

457 UI          INPUT UNITGRAPH,  39 ORDINATES,  VOLUME = 1.00
                    91.0      91.0      91.0     292.0     364.0     432.0     492.0     540.0     605.0     686.0
                   791.0     999.0    1180.0    1014.0     869.0     772.0     699.0     612.0     545.0     477.0
                   427.0     340.0     252.0     160.0     156.0     149.0     118.0      91.0      91.0      60.0
                    28.0      28.0      28.0      28.0      28.0      28.0      28.0      28.0      28.0

                                                    ***

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                      HYDROGRAPH AT STATION       J1
                     TRANSPOSITION AREA       .0 SQ MI

   TOTAL RAINFALL =    4.20, TOTAL LOSS =    3.25, TOTAL EXCESS =     .95

AK FLOW     TIME                          MAXIMUM AVERAGE FLOW
CFS)        (HR)                 6-HR       24-HR       72-HR     24.92-HR
 896.      12.83       (CFS)      182.         45.         44.         44.
                      (INCHES)   .955        .955        .955        .955
                      (AC-FT)     90.         90.         90.         90.
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CUMULATIVE AREA = 1.77 SQ MI

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HYDROGRAPH AT STATION J1
TRANSPOSITION AREA 5.0 SQ MI

TOTAL RAINFALL = 4.12, TOTAL LOSS = 3.20, TOTAL EXCESS = .92

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
863.	12.83	(CFS)	175.	44.	42.	42.
		(INCHES)	.920	.920	.920	.920
		(AC-FT)	87.	87.	87.	87.

CUMULATIVE AREA = 1.77 SQ MI

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HYDROGRAPH AT STATION J1
TRANSPOSITION AREA 10.0 SQ MI

TOTAL RAINFALL = 3.99, TOTAL LOSS = 3.13, TOTAL EXCESS = .86

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
809.	12.83	(CFS)	164.	41.	40.	40.
		(INCHES)	.862	.862	.862	.862
		(AC-FT)	81.	81.	81.	81.

CUMULATIVE AREA = 1.77 SQ MI

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HYDROGRAPH AT STATION J1
TRANSPOSITION AREA 50.0 SQ MI

TOTAL RAINFALL = 3.70, TOTAL LOSS = 2.97, TOTAL EXCESS = .73

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
687.	12.83	(CFS)	139.	35.	34.	34.
		(INCHES)	.731	.731	.731	.731
		(AC-FT)	69.	69.	69.	69.

CUMULATIVE AREA = 1.77 SQ MI

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HYDROGRAPH AT STATION J1
TRANSPOSITION AREA 100.0 SQ MI

TOTAL RAINFALL = 3.57, TOTAL LOSS = 2.90, TOTAL EXCESS = .67

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

631.	12.83	(CFS)	128.	32.	31.	31.
		(INCHES)	.672	.672	.672	.672
		(AC-FT)	63.	63.	63.	63.

CUMULATIVE AREA = 1.77 SQ MI

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HYDROGRAPH AT STATION J1
TRANSPOSITION AREA 500.0 SQ MI

TOTAL RAINFALL = 3.28, TOTAL LOSS = 2.74, TOTAL EXCESS = .54

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
507.	12.83	(CFS)	102.	26.	25.	25.
		(INCHES)	.538	.538	.538	.538
		(AC-FT)	51.	51.	51.	51.

CUMULATIVE AREA = 1.77 SQ MI

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INTERPOLATED HYDROGRAPH AT J1

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	0.	*	1		1230	151	625.	*	1		1845	226	0.
1		0005	2	0.	*	1		0620	77	0.	*	1		1235	152	729.	*	1		1850	227	0.
1		0010	3	0.	*	1		0625	78	0.	*	1		1240	153	804.	*	1		1855	228	0.
1		0015	4	0.	*	1		0630	79	0.	*	1		1245	154	850.	*	1		1900	229	0.
1		0020	5	0.	*	1		0635	80	0.	*	1		1250	155	868.	*	1		1905	230	0.
1		0025	6	0.	*	1		0640	81	0.	*	1		1255	156	858.	*	1		1910	231	0.
1		0030	7	0.	*	1		0645	82	0.	*	1		1300	157	800.	*	1		1915	232	0.
1		0035	8	0.	*	1		0650	83	0.	*	1		1305	158	701.	*	1		1920	233	0.
1		0040	9	0.	*	1		0655	84	0.	*	1		1310	159	618.	*	1		1925	234	0.
1		0045	10	0.	*	1		0700	85	0.	*	1		1315	160	549.	*	1		1930	235	0.
1		0050	11	0.	*	1		0705	86	0.	*	1		1320	161	482.	*	1		1935	236	0.
1		0055	12	0.	*	1		0710	87	0.	*	1		1325	162	414.	*	1		1940	237	0.
1		0100	13	0.	*	1		0715	88	0.	*	1		1330	163	345.	*	1		1945	238	0.
1		0105	14	0.	*	1		0720	89	0.	*	1		1335	164	284.	*	1		1950	239	0.
1		0110	15	0.	*	1		0725	90	0.	*	1		1340	165	233.	*	1		1955	240	0.
1		0115	16	0.	*	1		0730	91	0.	*	1		1345	166	184.	*	1		2000	241	0.
1		0120	17	0.	*	1		0735	92	0.	*	1		1350	167	145.	*	1		2005	242	0.
1		0125	18	0.	*	1		0740	93	0.	*	1		1355	168	119.	*	1		2010	243	0.
1		0130	19	0.	*	1		0745	94	0.	*	1		1400	169	104.	*	1		2015	244	0.
1		0135	20	0.	*	1		0750	95	0.	*	1		1405	170	84.	*	1		2020	245	0.
1		0140	21	0.	*	1		0755	96	0.	*	1		1410	171	66.	*	1		2025	246	0.
1		0145	22	0.	*	1		0800	97	0.	*	1		1415	172	51.	*	1		2030	247	0.
1		0150	23	0.	*	1		0805	98	0.	*	1		1420	173	41.	*	1		2035	248	0.
1		0155	24	0.	*	1		0810	99	0.	*	1		1425	174	31.	*	1		2040	249	0.
1		0200	25	0.	*	1		0815	100	0.	*	1		1430	175	26.	*	1		2045	250	0.
1		0205	26	0.	*	1		0820	101	0.	*	1		1435	176	26.	*	1		2050	251	0.
1		0210	27	0.	*	1		0825	102	0.	*	1		1440	177	26.	*	1		2055	252	0.
1		0215	28	0.	*	1		0830	103	0.	*	1		1445	178	26.	*	1		2100	253	0.
1		0220	29	0.	*	1		0835	104	0.	*	1		1450	179	22.	*	1		2105	254	0.

1	0225	30	0.	*	1	0840	105	0.	*	1	1455	180	18.	*	1	2110	255	0.
1	0230	31	0.	*	1	0845	106	0.	*	1	1500	181	13.	*	1	2115	256	0.
1	0235	32	0.	*	1	0850	107	0.	*	1	1505	182	9.	*	1	2120	257	0.
1	0240	33	0.	*	1	0855	108	0.	*	1	1510	183	5.	*	1	2125	258	0.
1	0245	34	0.	*	1	0900	109	0.	*	1	1515	184	0.	*	1	2130	259	0.
1	0250	35	0.	*	1	0905	110	0.	*	1	1520	185	0.	*	1	2135	260	0.
1	0255	36	0.	*	1	0910	111	0.	*	1	1525	186	0.	*	1	2140	261	0.
1	0300	37	0.	*	1	0915	112	0.	*	1	1530	187	0.	*	1	2145	262	0.
1	0305	38	0.	*	1	0920	113	0.	*	1	1535	188	0.	*	1	2150	263	0.
1	0310	39	0.	*	1	0925	114	0.	*	1	1540	189	0.	*	1	2155	264	0.
1	0315	40	0.	*	1	0930	115	0.	*	1	1545	190	0.	*	1	2200	265	0.
1	0320	41	0.	*	1	0935	116	0.	*	1	1550	191	0.	*	1	2205	266	0.
1	0325	42	0.	*	1	0940	117	0.	*	1	1555	192	0.	*	1	2210	267	0.
1	0330	43	0.	*	1	0945	118	0.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	0.	*	1	0950	119	0.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	0.	*	1	0955	120	0.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	0.	*	1	1000	121	0.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	0.	*	1	1005	122	0.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	0.	*	1	1010	123	0.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	0.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	0.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	0.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	0.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	0.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	0.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	0.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	0.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	0.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	0.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	0.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	0.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	0.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	0.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	0.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	0.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	0.	*	1	1135	140	13.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	0.	*	1	1140	141	26.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	0.	*	1	1145	142	40.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	0.	*	1	1150	143	83.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	0.	*	1	1155	144	137.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	0.	*	1	1200	145	203.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	0.	*	1	1205	146	264.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	0.	*	1	1210	147	334.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	0.	*	1	1215	148	415.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	0.	*	1	1220	149	475.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	0.	*	1	1225	150	540.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
868.	12.83	(CFS)	176.	44.	42.	42.
		(INCHES)	.926	.926	.926	.926
		(AC-FT)	87.	87.	87.	87.

CUMULATIVE AREA = 1.77 SQ MI

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          **************
          *            *
465 KK    *   RTV-1J   *       Retrieve Divert 1H-D
          *            *
          **************

466 DR          RETRIEVE DIVERSION HYDROGRAPH
                      ISTAD        1H-D  DIVERSION HYDROGRAPH IDENTIFICATION

                                                          ***

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

                       HYDROGRAPH AT STATION   RTV-1J
                      TRANSPOSITION AREA       .0 SQ MI

PEAK FLOW     TIME                            MAXIMUM AVERAGE FLOW
  (CFS)       (HR)                  6-HR        24-HR        72-HR     24.92-HR
     0.        .08       (CFS)        0.           0.           0.           0.
                        (INCHES)      .000         .000         .000         .000
                         (AC-FT)        0.           0.           0.           0.

                       CUMULATIVE AREA =    1.06 SQ MI


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

                       HYDROGRAPH AT STATION   RTV-1J
                      TRANSPOSITION AREA       5.0 SQ MI

PEAK FLOW     TIME                            MAXIMUM AVERAGE FLOW
  (CFS)       (HR)                  6-HR        24-HR        72-HR     24.92-HR
     0.        .08       (CFS)        0.           0.           0.           0.
                        (INCHES)      .000         .000         .000         .000
                         (AC-FT)        0.           0.           0.           0.

                       CUMULATIVE AREA =    1.06 SQ MI


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

                       HYDROGRAPH AT STATION   RTV-1J
                      TRANSPOSITION AREA      10.0 SQ MI

PEAK FLOW     TIME                            MAXIMUM AVERAGE FLOW
  (CFS)       (HR)                  6-HR        24-HR        72-HR     24.92-HR
     0.        .08       (CFS)        0.           0.           0.           0.
                        (INCHES)      .000         .000         .000         .000
                         (AC-FT)        0.           0.           0.           0.

                       CUMULATIVE AREA =    1.06 SQ MI


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

                       HYDROGRAPH AT STATION   RTV-1J
                      TRANSPOSITION AREA      50.0 SQ MI
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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 1.06 SQ MI

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

HYDROGRAPH AT STATION RTV-1J
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 1.06 SQ MI

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

HYDROGRAPH AT STATION RTV-1J
TRANSPOSITION AREA 500.0 SQ MI

K FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 1.06 SQ MI

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INTERPOLATED HYDROGRAPH AT RTV-1J

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	0.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	0.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	0.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	0.	1		1245	154	0.	1		1900	229	0.
1		0020	5	0.	1		0635	80	0.	1		1250	155	0.	1		1905	230	0.
1		0025	6	0.	1		0640	81	0.	1		1255	156	0.	1		1910	231	0.
1		0030	7	0.	1		0645	82	0.	1		1300	157	0.	1		1915	232	0.
1		0035	8	0.	1		0650	83	0.	1		1305	158	0.	1		1920	233	0.
1		0040	9	0.	1		0655	84	0.	1		1310	159	0.	1		1925	234	0.
1		0045	10	0.	1		0700	85	0.	1		1315	160	0.	1		1930	235	0.
1		0050	11	0.	1		0705	86	0.	1		1320	161	0.	1		1935	236	0.
1		0055	12	0.	1		0710	87	0.	1		1325	162	0.	1		1940	237	0.
1		0100	13	0.	1		0715	88	0.	1		1330	163	0.	1		1945	238	0.
1		0105	14	0.	1		0720	89	0.	1		1335	164	0.	1		1950	239	0.

1	0110	15	0.	*	1	0725	90	0.	*	1	1340	165	0.	*	1	1955	240	0.
1	0115	16	0.	*	1	0730	91	0.	*	1	1345	166	0.	*	1	2000	241	0.
1	0120	17	0.	*	1	0735	92	0.	*	1	1350	167	0.	*	1	2005	242	0.
1	0125	18	0.	*	1	0740	93	0.	*	1	1355	168	0.	*	1	2010	243	0.
1	0130	19	0.	*	1	0745	94	0.	*	1	1400	169	0.	*	1	2015	244	0.
1	0135	20	0.	*	1	0750	95	0.	*	1	1405	170	0.	*	1	2020	245	0.
1	0140	21	0.	*	1	0755	96	0.	*	1	1410	171	0.	*	1	2025	246	0.
1	0145	22	0.	*	1	0800	97	0.	*	1	1415	172	0.	*	1	2030	247	0.
1	0150	23	0.	*	1	0805	98	0.	*	1	1420	173	0.	*	1	2035	248	0.
1	0155	24	0.	*	1	0810	99	0.	*	1	1425	174	0.	*	1	2040	249	0.
1	0200	25	0.	*	1	0815	100	0.	*	1	1430	175	0.	*	1	2045	250	0.
1	0205	26	0.	*	1	0820	101	0.	*	1	1435	176	0.	*	1	2050	251	0.
1	0210	27	0.	*	1	0825	102	0.	*	1	1440	177	0.	*	1	2055	252	0.
1	0215	28	0.	*	1	0830	103	0.	*	1	1445	178	0.	*	1	2100	253	0.
1	0220	29	0.	*	1	0835	104	0.	*	1	1450	179	0.	*	1	2105	254	0.
1	0225	30	0.	*	1	0840	105	0.	*	1	1455	180	0.	*	1	2110	255	0.
1	0230	31	0.	*	1	0845	106	0.	*	1	1500	181	0.	*	1	2115	256	0.
1	0235	32	0.	*	1	0850	107	0.	*	1	1505	182	0.	*	1	2120	257	0.
1	0240	33	0.	*	1	0855	108	0.	*	1	1510	183	0.	*	1	2125	258	0.
1	0245	34	0.	*	1	0900	109	0.	*	1	1515	184	0.	*	1	2130	259	0.
1	0250	35	0.	*	1	0905	110	0.	*	1	1520	185	0.	*	1	2135	260	0.
1	0255	36	0.	*	1	0910	111	0.	*	1	1525	186	0.	*	1	2140	261	0.
1	0300	37	0.	*	1	0915	112	0.	*	1	1530	187	0.	*	1	2145	262	0.
1	0305	38	0.	*	1	0920	113	0.	*	1	1535	188	0.	*	1	2150	263	0.
1	0310	39	0.	*	1	0925	114	0.	*	1	1540	189	0.	*	1	2155	264	0.
1	0315	40	0.	*	1	0930	115	0.	*	1	1545	190	0.	*	1	2200	265	0.
1	0320	41	0.	*	1	0935	116	0.	*	1	1550	191	0.	*	1	2205	266	0.
1	0325	42	0.	*	1	0940	117	0.	*	1	1555	192	0.	*	1	2210	267	0.
1	0330	43	0.	*	1	0945	118	0.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	0.	*	1	0950	119	0.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	0.	*	1	0955	120	0.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	0.	*	1	1000	121	0.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	0.	*	1	1005	122	0.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	0.	*	1	1010	123	0.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	0.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	0.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	0.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	0.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	0.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	0.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	0.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	0.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	0.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	0.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	0.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	0.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	0.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	0.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	0.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	0.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	0.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	0.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	0.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	0.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	0.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	0.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	0.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	0.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	0.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	0.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.

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   1     0610   75        0.   *    1     1225  150        0.   *    1     1840  225        0.   *    2     0055  300        0.
                                *                                  *                                  *
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 K FLOW     TIME                              MAXIMUM AVERAGE FLOW
 (CFS)      (HR)                    6-HR        24-HR       72-HR      24.92-HR
    0.       .08        (CFS)         0.          0.          0.          0.
                       (INCHES)      .000        .000        .000        .000
                        (AC-FT)         0.          0.          0.          0.

                       CUMULATIVE AREA =    1.06 SQ MI
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          **************
          *            *
467 KK    *        1J  *
          *            *
          **************
                        Combining J1 & 1H-D

469 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          2  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL          0.  HYDROGRAPH PLOT SCALE
                     IPNCH          0  PUNCH COMPUTED HYDROGRAPH
                      IOUT         22  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


470 HC          HYDROGRAPH COMBINATION
                     ICOMP          2  NUMBER OF HYDROGRAPHS TO COMBINE

                                                    ***

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

                       HYDROGRAPH AT STATION       1J
                      TRANSPOSITION AREA       .0 SQ MI

PEAK FLOW     TIME                              MAXIMUM AVERAGE FLOW
 (CFS)        (HR)                    6-HR        24-HR       72-HR      24.92-HR
  896.       12.83        (CFS)       182.         45.         44.         44.
                       (INCHES)      .955        .955        .955        .955
                        (AC-FT)        90.         90.         90.         90.

                       CUMULATIVE AREA =    1.77 SQ MI

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

                       HYDROGRAPH AT STATION       1J
                      TRANSPOSITION AREA      5.0 SQ MI
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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
863.	12.83	(CFS)	175.	44.	42.	42.
		(INCHES)	.920	.920	.920	.920
		(AC-FT)	87.	87.	87.	87.

CUMULATIVE AREA = 1.77 SQ MI

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

HYDROGRAPH AT STATION 1J
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
809.	12.83	(CFS)	164.	41.	40.	40.
		(INCHES)	.862	.862	.862	.862
		(AC-FT)	81.	81.	81.	81.

CUMULATIVE AREA = 1.77 SQ MI

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

HYDROGRAPH AT STATION 1J
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
687.	12.83	(CFS)	139.	35.	34.	34.
		(INCHES)	.731	.731	.731	.731
		(AC-FT)	69.	69.	69.	69.

CUMULATIVE AREA = 1.77 SQ MI

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

HYDROGRAPH AT STATION 1J
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
631.	12.83	(CFS)	128.	32.	31.	31.
		(INCHES)	.672	.672	.672	.672
		(AC-FT)	63.	63.	63.	63.

CUMULATIVE AREA = 1.77 SQ MI

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

HYDROGRAPH AT STATION 1J
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
507.	12.83	(CFS)	102.	26.	25.	25.
		(INCHES)	.538	.538	.538	.538

(AC-FT) 51. 51. 51. 51.

CUMULATIVE AREA = 1.77 SQ MI

INTERPOLATED HYDROGRAPH AT 1J

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	0.	1		1230	151	625.	1		1845	226	0.
1		0005	2	0.	1		0620	77	0.	1		1235	152	729.	1		1850	227	0.
1		0010	3	0.	1		0625	78	0.	1		1240	153	804.	1		1855	228	0.
1		0015	4	0.	1		0630	79	0.	1		1245	154	850.	1		1900	229	0.
1		0020	5	0.	1		0635	80	0.	1		1250	155	868.	1		1905	230	0.
1		0025	6	0.	1		0640	81	0.	1		1255	156	858.	1		1910	231	0.
1		0030	7	0.	1		0645	82	0.	1		1300	157	800.	1		1915	232	0.
1		0035	8	0.	1		0650	83	0.	1		1305	158	701.	1		1920	233	0.
1		0040	9	0.	1		0655	84	0.	1		1310	159	618.	1		1925	234	0.
1		0045	10	0.	1		0700	85	0.	1		1315	160	549.	1		1930	235	0.
1		0050	11	0.	1		0705	86	0.	1		1320	161	482.	1		1935	236	0.
1		0055	12	0.	1		0710	87	0.	1		1325	162	414.	1		1940	237	0.
1		0100	13	0.	1		0715	88	0.	1		1330	163	345.	1		1945	238	0.
1		0105	14	0.	1		0720	89	0.	1		1335	164	284.	1		1950	239	0.
1		0110	15	0.	1		0725	90	0.	1		1340	165	233.	1		1955	240	0.
1		0115	16	0.	1		0730	91	0.	1		1345	166	184.	1		2000	241	0.
1		0120	17	0.	1		0735	92	0.	1		1350	167	145.	1		2005	242	0.
1		0125	18	0.	1		0740	93	0.	1		1355	168	119.	1		2010	243	0.
1		0130	19	0.	1		0745	94	0.	1		1400	169	104.	1		2015	244	0.
1		0135	20	0.	1		0750	95	0.	1		1405	170	84.	1		2020	245	0.
1		0140	21	0.	1		0755	96	0.	1		1410	171	66.	1		2025	246	0.
1		0145	22	0.	1		0800	97	0.	1		1415	172	51.	1		2030	247	0.
1		0150	23	0.	1		0805	98	0.	1		1420	173	41.	1		2035	248	0.
1		0155	24	0.	1		0810	99	0.	1		1425	174	31.	1		2040	249	0.
1		0200	25	0.	1		0815	100	0.	1		1430	175	26.	1		2045	250	0.
1		0205	26	0.	1		0820	101	0.	1		1435	176	26.	1		2050	251	0.
1		0210	27	0.	1		0825	102	0.	1		1440	177	26.	1		2055	252	0.
1		0215	28	0.	1		0830	103	0.	1		1445	178	26.	1		2100	253	0.
1		0220	29	0.	1		0835	104	0.	1		1450	179	22.	1		2105	254	0.
1		0225	30	0.	1		0840	105	0.	1		1455	180	18.	1		2110	255	0.
1		0230	31	0.	1		0845	106	0.	1		1500	181	13.	1		2115	256	0.
1		0235	32	0.	1		0850	107	0.	1		1505	182	9.	1		2120	257	0.
1		0240	33	0.	1		0855	108	0.	1		1510	183	5.	1		2125	258	0.
1		0245	34	0.	1		0900	109	0.	1		1515	184	0.	1		2130	259	0.
1		0250	35	0.	1		0905	110	0.	1		1520	185	0.	1		2135	260	0.
1		0255	36	0.	1		0910	111	0.	1		1525	186	0.	1		2140	261	0.
1		0300	37	0.	1		0915	112	0.	1		1530	187	0.	1		2145	262	0.
1		0305	38	0.	1		0920	113	0.	1		1535	188	0.	1		2150	263	0.
1		0310	39	0.	1		0925	114	0.	1		1540	189	0.	1		2155	264	0.
1		0315	40	0.	1		0930	115	0.	1		1545	190	0.	1		2200	265	0.
1		0320	41	0.	1		0935	116	0.	1		1550	191	0.	1		2205	266	0.
1		0325	42	0.	1		0940	117	0.	1		1555	192	0.	1		2210	267	0.
1		0330	43	0.	1		0945	118	0.	1		1600	193	0.	1		2215	268	0.
1		0335	44	0.	1		0950	119	0.	1		1605	194	0.	1		2220	269	0.
1		0340	45	0.	1		0955	120	0.	1		1610	195	0.	1		2225	270	0.
1		0345	46	0.	1		1000	121	0.	1		1615	196	0.	1		2230	271	0.
1		0350	47	0.	1		1005	122	0.	1		1620	197	0.	1		2235	272	0.

1	0355	48	0.	*	1	1010	123	0.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	0.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	0.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	0.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	0.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	0.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	0.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	0.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	0.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	0.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	0.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	0.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	0.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	0.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	0.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	0.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	0.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	0.	*	1	1135	140	13.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	0.	*	1	1140	141	26.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	0.	*	1	1145	142	40.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	0.	*	1	1150	143	83.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	0.	*	1	1155	144	137.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	0.	*	1	1200	145	203.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	0.	*	1	1205	146	264.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	0.	*	1	1210	147	334.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	0.	*	1	1215	148	415.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	0.	*	1	1220	149	475.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	0.	*	1	1225	150	540.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
868.	12.83	(CFS)	176.	44.	42.	42.
		(INCHES)	.926	.926	.926	.926
		(AC-FT)	87.	87.	87.	87.

CUMULATIVE AREA = 1.77 SQ MI

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          *            *
471 KK    *   DIV-1J   *      Divert 1J-D
          *            *
          **************

    DT         DIVERSION
                    ISTAD       1J-D  DIVERSION HYDROGRAPH IDENTIFICATION

    DI            INFLOW    1716.00   1882.00   2074.00   2317.00   3047.00   2915.00

    DQ      DIVERTED FLOW        .00     18.00     79.00    203.00    348.00    628.00

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DIVERSION HYDROGRAPH 1J-D
TRANSPOSITION AREA .0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 1.77 SQ MI

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HYDROGRAPH AT STATION DIV-1J
TRANSPOSITION AREA .0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
896.	12.83	(CFS)	182.	45.	44.	44.
		(INCHES)	.955	.955	.955	.955
		(AC-FT)	90.	90.	90.	90.

CUMULATIVE AREA = 1.77 SQ MI

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DIVERSION HYDROGRAPH 1J-D
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 1.77 SQ MI

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HYDROGRAPH AT STATION DIV-1J
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
863.	12.83	(CFS)	175.	44.	42.	42.
		(INCHES)	.920	.920	.920	.920
		(AC-FT)	87.	87.	87.	87.

CUMULATIVE AREA = 1.77 SQ MI

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DIVERSION HYDROGRAPH 1J-D
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		6-HR	MAXIMUM AVERAGE FLOW 24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 1.77 SQ MI

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HYDROGRAPH AT STATION DIV-1J
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		6-HR	MAXIMUM AVERAGE FLOW 24-HR	72-HR	24.92-HR
809.	12.83	(CFS)	164.	41.	40.	40.
		(INCHES)	.862	.862	.862	.862
		(AC-FT)	81.	81.	81.	81.

CUMULATIVE AREA = 1.77 SQ MI

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DIVERSION HYDROGRAPH 1J-D
TRANSPOSITION AREA 50.0 SQ MI

K FLOW (CFS)	TIME (HR)		6-HR	MAXIMUM AVERAGE FLOW 24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 1.77 SQ MI

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HYDROGRAPH AT STATION DIV-1J
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		6-HR	MAXIMUM AVERAGE FLOW 24-HR	72-HR	24.92-HR
687.	12.83	(CFS)	139.	35.	34.	34.
		(INCHES)	.731	.731	.731	.731
		(AC-FT)	69.	69.	69.	69.

CUMULATIVE AREA = 1.77 SQ MI

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DIVERSION HYDROGRAPH 1J-D
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		6-HR	MAXIMUM AVERAGE FLOW 24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.

(INCHES)	.000	.000	.000	.000
(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 1.77 SQ MI

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HYDROGRAPH AT STATION DIV-1J
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
631.	12.83	(CFS)	128.	32.	31.	31.
		(INCHES)	.672	.672	.672	.672
		(AC-FT)	63.	63.	63.	63.

CUMULATIVE AREA = 1.77 SQ MI

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DIVERSION HYDROGRAPH 1J-D
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 1.77 SQ MI

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

HYDROGRAPH AT STATION DIV-1J
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
507.	12.83	(CFS)	102.	26.	25.	25.
		(INCHES)	.538	.538	.538	.538
		(AC-FT)	51.	51.	51.	51.

CUMULATIVE AREA = 1.77 SQ MI

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INTERPOLATED DIVERSION HYDROGRAPH AT 1J-D

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	0.	*	1		1230	151	0.	*	1		1845	226	0.
1		0005	2	0.	*	1		0620	77	0.	*	1		1235	152	0.	*	1		1850	227	0.
1		0010	3	0.	*	1		0625	78	0.	*	1		1240	153	0.	*	1		1855	228	0.
1		0015	4	0.	*	1		0630	79	0.	*	1		1245	154	0.	*	1		1900	229	0.

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

1	0520	65	0.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	0.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	0.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	0.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	0.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	0.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	0.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	0.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	0.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	0.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	0.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 1.77 SQ MI

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INTERPOLATED HYDROGRAPH AT DIV-1J

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	0.	*	1		1230	151	625.	*	1		1845	226	0.
1		0005	2	0.	*	1		0620	77	0.	*	1		1235	152	729.	*	1		1850	227	0.
1		0010	3	0.	*	1		0625	78	0.	*	1		1240	153	804.	*	1		1855	228	0.
1		0015	4	0.	*	1		0630	79	0.	*	1		1245	154	850.	*	1		1900	229	0.
1		0020	5	0.	*	1		0635	80	0.	*	1		1250	155	868.	*	1		1905	230	0.
1		0025	6	0.	*	1		0640	81	0.	*	1		1255	156	858.	*	1		1910	231	0.
1		0030	7	0.	*	1		0645	82	0.	*	1		1300	157	800.	*	1		1915	232	0.
1		0035	8	0.	*	1		0650	83	0.	*	1		1305	158	701.	*	1		1920	233	0.
1		0040	9	0.	*	1		0655	84	0.	*	1		1310	159	618.	*	1		1925	234	0.
1		0045	10	0.	*	1		0700	85	0.	*	1		1315	160	549.	*	1		1930	235	0.
1		0050	11	0.	*	1		0705	86	0.	*	1		1320	161	482.	*	1		1935	236	0.
1		0055	12	0.	*	1		0710	87	0.	*	1		1325	162	414.	*	1		1940	237	0.
1		0100	13	0.	*	1		0715	88	0.	*	1		1330	163	345.	*	1		1945	238	0.
1		0105	14	0.	*	1		0720	89	0.	*	1		1335	164	284.	*	1		1950	239	0.
1		0110	15	0.	*	1		0725	90	0.	*	1		1340	165	233.	*	1		1955	240	0.
1		0115	16	0.	*	1		0730	91	0.	*	1		1345	166	184.	*	1		2000	241	0.
1		0120	17	0.	*	1		0735	92	0.	*	1		1350	167	145.	*	1		2005	242	0.
1		0125	18	0.	*	1		0740	93	0.	*	1		1355	168	119.	*	1		2010	243	0.
1		0130	19	0.	*	1		0745	94	0.	*	1		1400	169	104.	*	1		2015	244	0.
1		0135	20	0.	*	1		0750	95	0.	*	1		1405	170	84.	*	1		2020	245	0.
1		0140	21	0.	*	1		0755	96	0.	*	1		1410	171	66.	*	1		2025	246	0.
1		0145	22	0.	*	1		0800	97	0.	*	1		1415	172	51.	*	1		2030	247	0.
1		0150	23	0.	*	1		0805	98	0.	*	1		1420	173	41.	*	1		2035	248	0.
1		0155	24	0.	*	1		0810	99	0.	*	1		1425	174	31.	*	1		2040	249	0.
1		0200	25	0.	*	1		0815	100	0.	*	1		1430	175	26.	*	1		2045	250	0.
1		0205	26	0.	*	1		0820	101	0.	*	1		1435	176	26.	*	1		2050	251	0.
1		0210	27	0.	*	1		0825	102	0.	*	1		1440	177	26.	*	1		2055	252	0.
1		0215	28	0.	*	1		0830	103	0.	*	1		1445	178	26.	*	1		2100	253	0.
1		0220	29	0.	*	1		0835	104	0.	*	1		1450	179	22.	*	1		2105	254	0.

1	0225	30	0.	*	1	0840	105	0.	*	1	1455	180	18.	*	1	2110	255	0.
1	0230	31	0.	*	1	0845	106	0.	*	1	1500	181	13.	*	1	2115	256	0.
1	0235	32	0.	*	1	0850	107	0.	*	1	1505	182	9.	*	1	2120	257	0.
1	0240	33	0.	*	1	0855	108	0.	*	1	1510	183	5.	*	1	2125	258	0.
1	0245	34	0.	*	1	0900	109	0.	*	1	1515	184	0.	*	1	2130	259	0.
1	0250	35	0.	*	1	0905	110	0.	*	1	1520	185	0.	*	1	2135	260	0.
1	0255	36	0.	*	1	0910	111	0.	*	1	1525	186	0.	*	1	2140	261	0.
1	0300	37	0.	*	1	0915	112	0.	*	1	1530	187	0.	*	1	2145	262	0.
1	0305	38	0.	*	1	0920	113	0.	*	1	1535	188	0.	*	1	2150	263	0.
1	0310	39	0.	*	1	0925	114	0.	*	1	1540	189	0.	*	1	2155	264	0.
1	0315	40	0.	*	1	0930	115	0.	*	1	1545	190	0.	*	1	2200	265	0.
1	0320	41	0.	*	1	0935	116	0.	*	1	1550	191	0.	*	1	2205	266	0.
1	0325	42	0.	*	1	0940	117	0.	*	1	1555	192	0.	*	1	2210	267	0.
1	0330	43	0.	*	1	0945	118	0.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	0.	*	1	0950	119	0.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	0.	*	1	0955	120	0.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	0.	*	1	1000	121	0.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	0.	*	1	1005	122	0.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	0.	*	1	1010	123	0.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	0.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	0.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	0.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	0.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	0.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	0.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	0.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	0.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	0.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	0.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	0.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	0.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	0.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	0.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	0.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	0.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	0.	*	1	1135	140	13.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	0.	*	1	1140	141	26.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	0.	*	1	1145	142	40.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	0.	*	1	1150	143	83.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	0.	*	1	1155	144	137.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	0.	*	1	1200	145	203.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	0.	*	1	1205	146	264.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	0.	*	1	1210	147	334.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	0.	*	1	1215	148	415.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	0.	*	1	1220	149	475.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	0.	*	1	1225	150	540.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
868.	12.83	(CFS)	176.	44.	42.	42.
		(INCHES)	.926	.926	.926	.926
		(AC-FT)	87.	87.	87.	87.

CUMULATIVE AREA = 1.77 SQ MI

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          **************
          *            *
475 KK    *     1J-4E  *       Routing thru J2
          *            *
          **************

476 KO          OUTPUT CONTROL VARIABLES
                     IPRNT           2  PRINT CONTROL
                     IPLOT           0  PLOT CONTROL
                     QSCAL          0.  HYDROGRAPH PLOT SCALE
                     IPNCH           0  PUNCH COMPUTED HYDROGRAPH
                      IOUT          22  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


               HYDROGRAPH ROUTING DATA

477 RS          STORAGE ROUTING
                     NSTPS          45  NUMBER OF SUBREACHES
                      ITYP        FLOW  TYPE OF INITIAL CONDITION
                    RSVRIC         .00  INITIAL CONDITION
                         X         .00 WORKING R AND D COEFFICIENT

478 RC          NORMAL DEPTH CHANNEL
                       ANL        .052  LEFT OVERBANK N-VALUE
                      ANCH        .065  MAIN CHANNEL N-VALUE
                       ANR        .053  RIGHT OVERBANK N-VALUE
                     RLNTH      28445.  REACH LENGTH
                       SEL       .0086  ENERGY SLOPE
                      ELMAX          .0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                    CROSS-SECTION DATA
                          --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
480 RY       ELEVATION     13.00     12.00     11.00     10.00     10.00     11.00     12.00     13.00
479 RX       DISTANCE        .00     40.00     80.00     90.00    320.00    330.00    370.00    410.00

                                          ***

                                COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

          STORAGE        .00     23.88     48.08     72.61     97.46    122.64    148.15    174.20    201.49    230.09
          OUTFLOW        .00     22.57     71.84    141.53    229.15    333.20    452.63    589.76    744.21    915.41
        ELEVATION      10.00     10.16     10.32     10.47     10.63     10.79     10.95     11.11     11.26     11.42

          STORAGE     259.99    291.20    323.70    357.51    392.62    429.03    466.75    505.77    546.09    587.71
          OUTFLOW    1103.93   1310.27   1534.92   1778.35   2041.02   2323.37   2625.86   2948.92   3293.00   3658.54
        ELEVATION      11.58     11.74     11.89     12.05     12.21     12.37     12.53     12.68     12.84     13.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN     1104. TO     3659.
                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 1J-4E
TRANSPOSITION AREA .0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
487.	15.67	(CFS)	156.	43.	41.	41.
		(INCHES)	.820	.895	.895	.895
		(AC-FT)	77.	84.	84.	84.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
3.	15.67	2.	0.	0.	0.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
10.99	15.67	10.46	10.14	10.13	10.13

CUMULATIVE AREA = 1.77 SQ MI

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HYDROGRAPH AT STATION 1J-4E
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
457.	15.75	(CFS)	150.	41.	39.	39.
		(INCHES)	.786	.860	.860	.860
		(AC-FT)	74.	81.	81.	81.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
3.	15.75	2.	0.	0.	0.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
10.95	15.75	10.45	10.14	10.13	10.13

CUMULATIVE AREA = 1.77 SQ MI

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HYDROGRAPH AT STATION 1J-4E
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
419.	15.83	(CFS)	139.	38.	37.	37.
		(INCHES)	.731	.802	.802	.802
		(AC-FT)	69.	76.	76.	76.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
3.	15.83	1.	0.	0.	0.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
10.90	15.83	10.43	10.13	10.13	10.13

CUMULATIVE AREA = 1.77 SQ MI

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

HYDROGRAPH AT STATION 1J-4E
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
328.	16.08	(CFS)	116.	32.	31.	31.
		(INCHES)	.607	.672	.672	.672
		(AC-FT)	57.	63.	63.	63.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
3.	16.08	1.	0.	0.	0.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
10.78	16.08	10.39	10.12	10.11	10.11

CUMULATIVE AREA = 1.77 SQ MI

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

HYDROGRAPH AT STATION 1J-4E
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
292.	16.25	(CFS)	105.	29.	28.	28.
		(INCHES)	.552	.614	.614	.614
		(AC-FT)	52.	58.	58.	58.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
3.	16.25	1.	0.	0.	0.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
10.73	16.25	10.37	10.11	10.11	10.11

CUMULATIVE AREA = 1.77 SQ MI

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HYDROGRAPH AT STATION 1J-4E
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
209.	16.67	(CFS)	81.	23.	22.	22.
		(INCHES)	.427	.481	.481	.481
		(AC-FT)	40.	45.	45.	45.

PEAK STORAGE TIME MAXIMUM AVERAGE STORAGE

(AC-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
2.	16.67	1.	0.	0.	0.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
10.60	16.67	10.32	10.10	10.09	10.09

CUMULATIVE AREA = 1.77 SQ MI

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INTERPOLATED HYDROGRAPH AT 1J-4E

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	0.	*	1		1230	151	0.	*	1		1845	226	83.
1		0005	2	0.	*	1		0620	77	0.	*	1		1235	152	0.	*	1		1850	227	80.
1		0010	3	0.	*	1		0625	78	0.	*	1		1240	153	0.	*	1		1855	228	78.
1		0015	4	0.	*	1		0630	79	0.	*	1		1245	154	0.	*	1		1900	229	75.
1		0020	5	0.	*	1		0635	80	0.	*	1		1250	155	0.	*	1		1905	230	74.
1		0025	6	0.	*	1		0640	81	0.	*	1		1255	156	0.	*	1		1910	231	72.
1		0030	7	0.	*	1		0645	82	0.	*	1		1300	157	0.	*	1		1915	232	71.
1		0035	8	0.	*	1		0650	83	0.	*	1		1305	158	0.	*	1		1920	233	70.
1		0040	9	0.	*	1		0655	84	0.	*	1		1310	159	0.	*	1		1925	234	69.
1		0045	10	0.	*	1		0700	85	0.	*	1		1315	160	0.	*	1		1930	235	68.
1		0050	11	0.	*	1		0705	86	0.	*	1		1320	161	0.	*	1		1935	236	66.
1		0055	12	0.	*	1		0710	87	0.	*	1		1325	162	0.	*	1		1940	237	65.
1		0100	13	0.	*	1		0715	88	0.	*	1		1330	163	0.	*	1		1945	238	63.
1		0105	14	0.	*	1		0720	89	0.	*	1		1335	164	0.	*	1		1950	239	61.
1		0110	15	0.	*	1		0725	90	0.	*	1		1340	165	0.	*	1		1955	240	59.
1		0115	16	0.	*	1		0730	91	0.	*	1		1345	166	0.	*	1		2000	241	57.
1		0120	17	0.	*	1		0735	92	0.	*	1		1350	167	0.	*	1		2005	242	55.
1		0125	18	0.	*	1		0740	93	0.	*	1		1355	168	0.	*	1		2010	243	53.
1		0130	19	0.	*	1		0745	94	0.	*	1		1400	169	0.	*	1		2015	244	50.
1		0135	20	0.	*	1		0750	95	0.	*	1		1405	170	0.	*	1		2020	245	48.
1		0140	21	0.	*	1		0755	96	0.	*	1		1410	171	0.	*	1		2025	246	46.
1		0145	22	0.	*	1		0800	97	0.	*	1		1415	172	0.	*	1		2030	247	44.
1		0150	23	0.	*	1		0805	98	0.	*	1		1420	173	0.	*	1		2035	248	42.
1		0155	24	0.	*	1		0810	99	0.	*	1		1425	174	0.	*	1		2040	249	40.
1		0200	25	0.	*	1		0815	100	0.	*	1		1430	175	0.	*	1		2045	250	38.
1		0205	26	0.	*	1		0820	101	0.	*	1		1435	176	0.	*	1		2050	251	37.
1		0210	27	0.	*	1		0825	102	0.	*	1		1440	177	0.	*	1		2055	252	35.
1		0215	28	0.	*	1		0830	103	0.	*	1		1445	178	0.	*	1		2100	253	33.
1		0220	29	0.	*	1		0835	104	0.	*	1		1450	179	0.	*	1		2105	254	32.
1		0225	30	0.	*	1		0840	105	0.	*	1		1455	180	0.	*	1		2110	255	31.
1		0230	31	0.	*	1		0845	106	0.	*	1		1500	181	0.	*	1		2115	256	30.
1		0235	32	0.	*	1		0850	107	0.	*	1		1505	182	0.	*	1		2120	257	29.
1		0240	33	0.	*	1		0855	108	0.	*	1		1510	183	0.	*	1		2125	258	28.
1		0245	34	0.	*	1		0900	109	0.	*	1		1515	184	3.	*	1		2130	259	27.
1		0250	35	0.	*	1		0905	110	0.	*	1		1520	185	16.	*	1		2135	260	26.
1		0255	36	0.	*	1		0910	111	0.	*	1		1525	186	89.	*	1		2140	261	26.
1		0300	37	0.	*	1		0915	112	0.	*	1		1530	187	260.	*	1		2145	262	25.
1		0305	38	0.	*	1		0920	113	0.	*	1		1535	188	409.	*	1		2150	263	25.
1		0310	39	0.	*	1		0925	114	0.	*	1		1540	189	460.	*	1		2155	264	24.
1		0315	40	0.	*	1		0930	115	0.	*	1		1545	190	459.	*	1		2200	265	24.
1		0320	41	0.	*	1		0935	116	0.	*	1		1550	191	442.	*	1		2205	266	24.
1		0325	42	0.	*	1		0940	117	0.	*	1		1555	192	421.	*	1		2210	267	23.

1	0330	43	0.	*	1	0945	118	0.	*	1	1600	193	399.	*	1	2215	268	23.
1	0335	44	0.	*	1	0950	119	0.	*	1	1605	194	376.	*	1	2220	269	23.
1	0340	45	0.	*	1	0955	120	0.	*	1	1610	195	355.	*	1	2225	270	23.
1	0345	46	0.	*	1	1000	121	0.	*	1	1615	196	337.	*	1	2230	271	23.
1	0350	47	0.	*	1	1005	122	0.	*	1	1620	197	321.	*	1	2235	272	23.
1	0355	48	0.	*	1	1010	123	0.	*	1	1625	198	306.	*	1	2240	273	23.
1	0400	49	0.	*	1	1015	124	0.	*	1	1630	199	289.	*	1	2245	274	23.
1	0405	50	0.	*	1	1020	125	0.	*	1	1635	200	273.	*	1	2250	275	23.
1	0410	51	0.	*	1	1025	126	0.	*	1	1640	201	258.	*	1	2255	276	23.
1	0415	52	0.	*	1	1030	127	0.	*	1	1645	202	244.	*	1	2300	277	23.
1	0420	53	0.	*	1	1035	128	0.	*	1	1650	203	233.	*	1	2305	278	23.
1	0425	54	0.	*	1	1040	129	0.	*	1	1655	204	223.	*	1	2310	279	23.
1	0430	55	0.	*	1	1045	130	0.	*	1	1700	205	214.	*	1	2315	280	23.
1	0435	56	0.	*	1	1050	131	0.	*	1	1705	206	204.	*	1	2320	281	23.
1	0440	57	0.	*	1	1055	132	0.	*	1	1710	207	194.	*	1	2325	282	23.
1	0445	58	0.	*	1	1100	133	0.	*	1	1715	208	184.	*	1	2330	283	23.
1	0450	59	0.	*	1	1105	134	0.	*	1	1720	209	174.	*	1	2335	284	23.
1	0455	60	0.	*	1	1110	135	0.	*	1	1725	210	165.	*	1	2340	285	23.
1	0500	61	0.	*	1	1115	136	0.	*	1	1730	211	157.	*	1	2345	286	22.
1	0505	62	0.	*	1	1120	137	0.	*	1	1735	212	150.	*	1	2350	287	22.
1	0510	63	0.	*	1	1125	138	0.	*	1	1740	213	145.	*	1	2355	288	22.
1	0515	64	0.	*	1	1130	139	0.	*	1	1745	214	140.	*	2	0000	289	22.
1	0520	65	0.	*	1	1135	140	0.	*	1	1750	215	136.	*	2	0005	290	22.
1	0525	66	0.	*	1	1140	141	0.	*	1	1755	216	132.	*	2	0010	291	22.
1	0530	67	0.	*	1	1145	142	0.	*	1	1800	217	127.	*	2	0015	292	22.
1	0535	68	0.	*	1	1150	143	0.	*	1	1805	218	121.	*	2	0020	293	22.
1	0540	69	0.	*	1	1155	144	0.	*	1	1810	219	116.	*	2	0025	294	22.
1	0545	70	0.	*	1	1200	145	0.	*	1	1815	220	111.	*	2	0030	295	22.
1	0550	71	0.	*	1	1205	146	0.	*	1	1820	221	105.	*	2	0035	296	22.
1	0555	72	0.	*	1	1210	147	0.	*	1	1825	222	100.	*	2	0040	297	22.
1	0600	73	0.	*	1	1215	148	0.	*	1	1830	223	95.	*	2	0045	298	22.
1	0605	74	0.	*	1	1220	149	0.	*	1	1835	224	91.	*	2	0050	299	22.
1	0610	75	0.	*	1	1225	150	0.	*	1	1840	225	87.	*	2	0055	300	22.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
460.	15.67	(CFS)	151.	41.	40.	40.
		(INCHES)	.792	.865	.865	.865
		(AC-FT)	75.	82.	82.	82.

CUMULATIVE AREA = 1.77 SQ MI

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          *            *
481 KK    *       J2   *
          *            *
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BASIN J2

THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN

L= 5.4 Lca= 3.1 S= 45.0 Kn= .050 LAG= 102.0

PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN

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486 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          2  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL          0.  HYDROGRAPH PLOT SCALE
                     IPNCH          0  PUNCH COMPUTED HYDROGRAPH
                      IOUT         22  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


               SUBBASIN RUNOFF DATA

487 BA          SUBBASIN CHARACTERISTICS
                     TAREA       3.66  SUBBASIN AREA

488 LG          GREEN AND AMPT LOSS RATE
                     STRTL        .17  STARTING LOSS
                       DTH        .35  MOISTURE DEFICIT
                      PSIF       4.09  WETTING FRONT SUCTION
                     XKSAT        .51  HYDRAULIC CONDUCTIVITY
                     RTIMP        .00  PERCENT IMPERVIOUS AREA

487 UI          INPUT UNITGRAPH,  60 ORDINATES,  VOLUME = 1.00
                   121.0     121.0     121.0     121.0     206.0     397.0     455.0     524.0     578.0     628.0
                   671.0     718.0     769.0     829.0     908.0     965.0    1094.0    1304.0    1454.0    1602.0
                  1407.0    1260.0    1149.0    1063.0     994.0     939.0     852.0     788.0     730.0     675.0
                   615.0     575.0     515.0     438.0     347.0     269.0     214.0     214.0     199.0     198.0
                   192.0     121.0     121.0     121.0     121.0      89.0      37.0      37.0      37.0      37.0
                    37.0      37.0      37.0      37.0      37.0      37.0      37.0      37.0      37.0      37.0

                                                                        ***

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

                      HYDROGRAPH AT STATION       J2
                     TRANSPOSITION AREA       .0 SQ MI

  TOTAL RAINFALL =    4.20, TOTAL LOSS =    3.14, TOTAL EXCESS =    1.06

PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
  (CFS)       (HR)                6-HR       24-HR       72-HR     24.92-HR
  1442.      13.42      (CFS)      415.        104.        100.        100.
                       (INCHES)   1.055       1.055       1.055       1.055
                       (AC-FT)     206.        206.        206.        206.

                     CUMULATIVE AREA =    3.66 SQ MI


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

                      HYDROGRAPH AT STATION       J2
                     TRANSPOSITION AREA      5.0 SQ MI

  TOTAL RAINFALL =    4.12, TOTAL LOSS =    3.10, TOTAL EXCESS =    1.02

PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
  (CFS)       (HR)                6-HR       24-HR       72-HR     24.92-HR
  1394.      13.42      (CFS)      401.        100.         97.         97.
                       (INCHES)   1.020       1.020       1.020       1.020
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	(AC-FT)	199.	199.	199.	199.

CUMULATIVE AREA = 3.66 SQ MI

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HYDROGRAPH AT STATION J2
TRANSPOSITION AREA 10.0 SQ MI

TOTAL RAINFALL = 3.99, TOTAL LOSS = 3.03, TOTAL EXCESS = .96

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
1316.	13.42	(CFS)	379.	95.	91.	91.
		(INCHES)	.962	.962	.962	.962
		(AC-FT)	188.	188.	188.	188.

CUMULATIVE AREA = 3.66 SQ MI

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HYDROGRAPH AT STATION J2
TRANSPOSITION AREA 50.0 SQ MI

TOTAL RAINFALL = 3.70, TOTAL LOSS = 2.87, TOTAL EXCESS = .83

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
1141.	13.42	(CFS)	328.	82.	79.	79.
		(INCHES)	.833	.833	.833	.833
		(AC-FT)	163.	163.	163.	163.

CUMULATIVE AREA = 3.66 SQ MI

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HYDROGRAPH AT STATION J2
TRANSPOSITION AREA 100.0 SQ MI

TOTAL RAINFALL = 3.57, TOTAL LOSS = 2.79, TOTAL EXCESS = .78

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
1061.	13.42	(CFS)	305.	76.	73.	73.
		(INCHES)	.775	.775	.775	.775
		(AC-FT)	151.	151.	151.	151.

CUMULATIVE AREA = 3.66 SQ MI

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HYDROGRAPH AT STATION J2
TRANSPOSITION AREA 500.0 SQ MI

TOTAL RAINFALL = 3.28, TOTAL LOSS = 2.64, TOTAL EXCESS = .64

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
882.	13.42	(CFS)	253.	63.	61.	61.
		(INCHES)	.642	.642	.642	.642
		(AC-FT)	125.	125.	125.	125.

CUMULATIVE AREA = 3.66 SQ MI

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INTERPOLATED HYDROGRAPH AT J2

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	0.	*	1		1230	151	606.	*	1		1845	226	0.
1		0005	2	0.	*	1		0620	77	0.	*	1		1235	152	660.	*	1		1850	227	0.
1		0010	3	0.	*	1		0625	78	0.	*	1		1240	153	712.	*	1		1855	228	0.
1		0015	4	0.	*	1		0630	79	0.	*	1		1245	154	767.	*	1		1900	229	0.
1		0020	5	0.	*	1		0635	80	0.	*	1		1250	155	825.	*	1		1905	230	0.
1		0025	6	0.	*	1		0640	81	0.	*	1		1255	156	896.	*	1		1910	231	0.
1		0030	7	0.	*	1		0645	82	0.	*	1		1300	157	994.	*	1		1915	232	0.
1		0035	8	0.	*	1		0650	83	0.	*	1		1305	158	1109.	*	1		1920	233	0.
1		0040	9	0.	*	1		0655	84	0.	*	1		1310	159	1240.	*	1		1925	234	0.
1		0045	10	0.	*	1		0700	85	0.	*	1		1315	160	1327.	*	1		1930	235	0.
1		0050	11	0.	*	1		0705	86	0.	*	1		1320	161	1382.	*	1		1935	236	0.
1		0055	12	0.	*	1		0710	87	0.	*	1		1325	162	1396.	*	1		1940	237	0.
1		0100	13	0.	*	1		0715	88	0.	*	1		1330	163	1358.	*	1		1945	238	0.
1		0105	14	0.	*	1		0720	89	0.	*	1		1335	164	1281.	*	1		1950	239	0.
1		0110	15	0.	*	1		0725	90	0.	*	1		1340	165	1166.	*	1		1955	240	0.
1		0115	16	0.	*	1		0730	91	0.	*	1		1345	166	1071.	*	1		2000	241	0.
1		0120	17	0.	*	1		0735	92	0.	*	1		1350	167	990.	*	1		2005	242	0.
1		0125	18	0.	*	1		0740	93	0.	*	1		1355	168	919.	*	1		2010	243	0.
1		0130	19	0.	*	1		0745	94	0.	*	1		1400	169	852.	*	1		2015	244	0.
1		0135	20	0.	*	1		0750	95	0.	*	1		1405	170	788.	*	1		2020	245	0.
1		0140	21	0.	*	1		0755	96	0.	*	1		1410	171	725.	*	1		2025	246	0.
1		0145	22	0.	*	1		0800	97	0.	*	1		1415	172	668.	*	1		2030	247	0.
1		0150	23	0.	*	1		0805	98	0.	*	1		1420	173	608.	*	1		2035	248	0.
1		0155	24	0.	*	1		0810	99	0.	*	1		1425	174	543.	*	1		2040	249	0.
1		0200	25	0.	*	1		0815	100	0.	*	1		1430	175	475.	*	1		2045	250	0.
1		0205	26	0.	*	1		0820	101	0.	*	1		1435	176	406.	*	1		2050	251	0.
1		0210	27	0.	*	1		0825	102	0.	*	1		1440	177	344.	*	1		2055	252	0.
1		0215	28	0.	*	1		0830	103	0.	*	1		1445	178	289.	*	1		2100	253	0.
1		0220	29	0.	*	1		0835	104	0.	*	1		1450	179	247.	*	1		2105	254	0.
1		0225	30	0.	*	1		0840	105	0.	*	1		1455	180	220.	*	1		2110	255	0.
1		0230	31	0.	*	1		0845	106	0.	*	1		1500	181	195.	*	1		2115	256	0.
1		0235	32	0.	*	1		0850	107	0.	*	1		1505	182	179.	*	1		2120	257	0.
1		0240	33	0.	*	1		0855	108	0.	*	1		1510	183	163.	*	1		2125	258	0.
1		0245	34	0.	*	1		0900	109	0.	*	1		1515	184	150.	*	1		2130	259	0.
1		0250	35	0.	*	1		0905	110	0.	*	1		1520	185	131.	*	1		2135	260	0.
1		0255	36	0.	*	1		0910	111	0.	*	1		1525	186	105.	*	1		2140	261	0.
1		0300	37	0.	*	1		0915	112	0.	*	1		1530	187	91.	*	1		2145	262	0.
1		0305	38	0.	*	1		0920	113	0.	*	1		1535	188	77.	*	1		2150	263	0.
1		0310	39	0.	*	1		0925	114	0.	*	1		1540	189	62.	*	1		2155	264	0.
1		0315	40	0.	*	1		0930	115	0.	*	1		1545	190	47.	*	1		2200	265	0.
1		0320	41	0.	*	1		0935	116	0.	*	1		1550	191	38.	*	1		2205	266	0.
1		0325	42	0.	*	1		0940	117	0.	*	1		1555	192	38.	*	1		2210	267	0.
1		0330	43	0.	*	1		0945	118	0.	*	1		1600	193	38.	*	1		2215	268	0.

1	0335	44	0.	*	1	0950	119	0.	*	1	1605	194	38.	*	1	2220	269	0.
1	0340	45	0.	*	1	0955	120	0.	*	1	1610	195	38.	*	1	2225	270	0.
1	0345	46	0.	*	1	1000	121	0.	*	1	1615	196	38.	*	1	2230	271	0.
1	0350	47	0.	*	1	1005	122	0.	*	1	1620	197	38.	*	1	2235	272	0.
1	0355	48	0.	*	1	1010	123	0.	*	1	1625	198	38.	*	1	2240	273	0.
1	0400	49	0.	*	1	1015	124	0.	*	1	1630	199	38.	*	1	2245	274	0.
1	0405	50	0.	*	1	1020	125	0.	*	1	1635	200	32.	*	1	2250	275	0.
1	0410	51	0.	*	1	1025	126	0.	*	1	1640	201	26.	*	1	2255	276	0.
1	0415	52	0.	*	1	1030	127	0.	*	1	1645	202	19.	*	1	2300	277	0.
1	0420	53	0.	*	1	1035	128	0.	*	1	1650	203	13.	*	1	2305	278	0.
1	0425	54	0.	*	1	1040	129	0.	*	1	1655	204	7.	*	1	2310	279	0.
1	0430	55	0.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	0.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	0.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	0.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	0.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	0.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	0.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	0.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	0.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	0.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	0.	*	1	1135	140	19.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	0.	*	1	1140	141	39.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	0.	*	1	1145	142	60.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	0.	*	1	1150	143	81.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	0.	*	1	1155	144	116.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	0.	*	1	1200	145	182.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	0.	*	1	1205	146	237.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	0.	*	1	1210	147	305.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	0.	*	1	1215	148	383.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	0.	*	1	1220	149	471.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	0.	*	1	1225	150	551.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
1396.	13.42	(CFS)	402.	101.	97.	97.
		(INCHES)	1.021	1.021	1.021	1.021
		(AC-FT)	199.	199.	199.	199.

CUMULATIVE AREA = 3.66 SQ MI

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          *            *
497 KK    *        K1  *
          *            *
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BASIN K1
THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
L= 3.1 Lca= 1.8 S= 759.0 Kn= .050 LAG= 39.0
PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN

502 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

SUBBASIN RUNOFF DATA

503 BA SUBBASIN CHARACTERISTICS

TAREA	1.54	SUBBASIN AREA

504 LG GREEN AND AMPT LOSS RATE

STRTL	.37	STARTING LOSS
DTH	.35	MOISTURE DEFICIT
PSIF	4.03	WETTING FRONT SUCTION
XKSAT	.36	HYDRAULIC CONDUCTIVITY
RTIMP	17.00	PERCENT IMPERVIOUS AREA

503 UI INPUT UNITGRAPH, 36 ORDINATES, VOLUME = 1.00

133.0	184.0	468.0	744.0	936.0	1126.0	1522.0	1032.0	816.0	722.0
637.0	551.0	473.0	382.0	328.0	297.0	251.0	200.0	170.0	146.0
131.0	102.0	102.0	65.0	65.0	65.0	52.0	25.0	25.0	25.0
25.0	25.0	25.0	25.0	25.0	25.0				

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HYDROGRAPH AT STATION K1
TRANSPOSITION AREA .0 SQ MI

TOTAL RAINFALL = 4.20, TOTAL LOSS = 2.52, TOTAL EXCESS = 1.68

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1310.	12.33	(CFS)	244.	70.	67.	67.
		(INCHES)	1.473	1.681	1.683	1.683
		(AC-FT)	121.	138.	138.	138.

CUMULATIVE AREA = 1.54 SQ MI

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

HYDROGRAPH AT STATION K1
TRANSPOSITION AREA 5.0 SQ MI

TOTAL RAINFALL = 4.12, TOTAL LOSS = 2.48, TOTAL EXCESS = 1.64

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1274.	12.33	(CFS)	238.	68.	65.	65.
		(INCHES)	1.434	1.638	1.640	1.640
		(AC-FT)	118.	135.	135.	135.

CUMULATIVE AREA = 1.54 SQ MI

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

HYDROGRAPH AT STATION K1
TRANSPOSITION AREA 10.0 SQ MI

TOTAL RAINFALL = 3.99, TOTAL LOSS = 2.42, TOTAL EXCESS = 1.57

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1216.	12.33	(CFS)	227.	65.	63.	63.
		(INCHES)	1.370	1.568	1.570	1.570
		(AC-FT)	113.	129.	129.	129.

CUMULATIVE AREA = 1.54 SQ MI

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HYDROGRAPH AT STATION K1
TRANSPOSITION AREA 50.0 SQ MI

TOTAL RAINFALL = 3.70, TOTAL LOSS = 2.29, TOTAL EXCESS = 1.41

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1083.	12.33	(CFS)	203.	58.	56.	56.
		(INCHES)	1.227	1.410	1.411	1.411
		(AC-FT)	101.	116.	116.	116.

CUMULATIVE AREA = 1.54 SQ MI

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HYDROGRAPH AT STATION K1
TRANSPOSITION AREA 100.0 SQ MI

TOTAL RAINFALL = 3.57, TOTAL LOSS = 2.23, TOTAL EXCESS = 1.34

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1023.	12.33	(CFS)	192.	55.	53.	53.
		(INCHES)	1.161	1.338	1.340	1.340
		(AC-FT)	95.	110.	110.	110.

CUMULATIVE AREA = 1.54 SQ MI

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HYDROGRAPH AT STATION K1
TRANSPOSITION AREA 500.0 SQ MI

TOTAL RAINFALL = 3.28, TOTAL LOSS = 2.10, TOTAL EXCESS = 1.18

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
888.	12.33	(CFS)	168.	49.	47.	47.

(INCHES)	1.014	1.176	1.178	1.178
(AC-FT)	83.	97.	97.	97.

CUMULATIVE AREA = 1.54 SQ MI

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INTERPOLATED HYDROGRAPH AT K1

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	12.	1		1230	151	1120.	1		1845	226	12.
1		0005	2	0.	1		0620	77	12.	1		1235	152	915.	1		1850	227	12.
1		0010	3	0.	1		0625	78	12.	1		1240	153	789.	1		1855	228	12.
1		0015	4	0.	1		0630	79	12.	1		1245	154	693.	1		1900	229	12.
1		0020	5	1.	1		0635	80	12.	1		1250	155	609.	1		1905	230	12.
1		0025	6	1.	1		0640	81	12.	1		1255	156	530.	1		1910	231	12.
1		0030	7	2.	1		0645	82	12.	1		1300	157	458.	1		1915	232	12.
1		0035	8	3.	1		0650	83	12.	1		1305	158	393.	1		1920	233	11.
1		0040	9	4.	1		0655	84	12.	1		1310	159	343.	1		1925	234	11.
1		0045	10	4.	1		0700	85	12.	1		1315	160	302.	1		1930	235	11.
1		0050	11	5.	1		0705	86	12.	1		1320	161	260.	1		1935	236	11.
1		0055	12	5.	1		0710	87	13.	1		1325	162	228.	1		1940	237	11.
1		0100	13	6.	1		0715	88	13.	1		1330	163	198.	1		1945	238	11.
1		0105	14	6.	1		0720	89	13.	1		1335	164	174.	1		1950	239	11.
1		0110	15	6.	1		0725	90	13.	1		1340	165	156.	1		1955	240	11.
1		0115	16	7.	1		0730	91	13.	1		1345	166	138.	1		2000	241	11.
1		0120	17	7.	1		0735	92	14.	1		1350	167	120.	1		2005	242	11.
1		0125	18	7.	1		0740	93	14.	1		1355	168	103.	1		2010	243	11.
1		0130	19	7.	1		0745	94	14.	1		1400	169	93.	1		2015	244	10.
1		0135	20	7.	1		0750	95	14.	1		1405	170	83.	1		2020	245	10.
1		0140	21	7.	1		0755	96	15.	1		1410	171	73.	1		2025	246	10.
1		0145	22	7.	1		0800	97	15.	1		1415	172	66.	1		2030	247	10.
1		0150	23	7.	1		0805	98	15.	1		1420	173	65.	1		2035	248	10.
1		0155	24	7.	1		0810	99	15.	1		1425	174	63.	1		2040	249	10.
1		0200	25	7.	1		0815	100	15.	1		1430	175	62.	1		2045	250	10.
1		0205	26	8.	1		0820	101	15.	1		1435	176	56.	1		2050	251	10.
1		0210	27	8.	1		0825	102	16.	1		1440	177	50.	1		2055	252	10.
1		0215	28	8.	1		0830	103	16.	1		1445	178	45.	1		2100	253	9.
1		0220	29	8.	1		0835	104	16.	1		1450	179	39.	1		2105	254	9.
1		0225	30	8.	1		0840	105	17.	1		1455	180	33.	1		2110	255	9.
1		0230	31	8.	1		0845	106	17.	1		1500	181	27.	1		2115	256	9.
1		0235	32	8.	1		0850	107	17.	1		1505	182	26.	1		2120	257	9.
1		0240	33	8.	1		0855	108	17.	1		1510	183	26.	1		2125	258	9.
1		0245	34	8.	1		0900	109	18.	1		1515	184	25.	1		2130	259	9.
1		0250	35	8.	1		0905	110	18.	1		1520	185	24.	1		2135	260	9.
1		0255	36	9.	1		0910	111	18.	1		1525	186	24.	1		2140	261	9.
1		0300	37	9.	1		0915	112	19.	1		1530	187	23.	1		2145	262	9.
1		0305	38	9.	1		0920	113	19.	1		1535	188	22.	1		2150	263	9.
1		0310	39	9.	1		0925	114	19.	1		1540	189	22.	1		2155	264	9.
1		0315	40	9.	1		0930	115	20.	1		1545	190	21.	1		2200	265	9.
1		0320	41	9.	1		0935	116	20.	1		1550	191	21.	1		2205	266	9.
1		0325	42	9.	1		0940	117	21.	1		1555	192	20.	1		2210	267	9.
1		0330	43	9.	1		0945	118	21.	1		1600	193	20.	1		2215	268	9.
1		0335	44	9.	1		0950	119	21.	1		1605	194	19.	1		2220	269	9.
1		0340	45	9.	1		0955	120	22.	1		1610	195	19.	1		2225	270	9.
1		0345	46	9.	1		1000	121	22.	1		1615	196	19.	1		2230	271	9.

1	0350	47	9.	*	1	1005	122	23.	*	1	1620	197	18.	*	1	2235	272	9.
1	0355	48	9.	*	1	1010	123	23.	*	1	1625	198	18.	*	1	2240	273	9.
1	0400	49	9.	*	1	1015	124	24.	*	1	1630	199	17.	*	1	2245	274	8.
1	0405	50	9.	*	1	1020	125	25.	*	1	1635	200	17.	*	1	2250	275	8.
1	0410	51	9.	*	1	1025	126	25.	*	1	1640	201	17.	*	1	2255	276	8.
1	0415	52	9.	*	1	1030	127	26.	*	1	1645	202	17.	*	1	2300	277	8.
1	0420	53	10.	*	1	1035	128	27.	*	1	1650	203	16.	*	1	2305	278	8.
1	0425	54	10.	*	1	1040	129	28.	*	1	1655	204	16.	*	1	2310	279	8.
1	0430	55	10.	*	1	1045	130	29.	*	1	1700	205	16.	*	1	2315	280	8.
1	0435	56	10.	*	1	1050	131	31.	*	1	1705	206	16.	*	1	2320	281	8.
1	0440	57	10.	*	1	1055	132	32.	*	1	1710	207	16.	*	1	2325	282	8.
1	0445	58	10.	*	1	1100	133	33.	*	1	1715	208	16.	*	1	2330	283	8.
1	0450	59	10.	*	1	1105	134	35.	*	1	1720	209	16.	*	1	2335	284	8.
1	0455	60	10.	*	1	1110	135	37.	*	1	1725	210	15.	*	1	2340	285	8.
1	0500	61	10.	*	1	1115	136	39.	*	1	1730	211	15.	*	1	2345	286	8.
1	0505	62	10.	*	1	1120	137	41.	*	1	1735	212	15.	*	1	2350	287	8.
1	0510	63	10.	*	1	1125	138	44.	*	1	1740	213	15.	*	1	2355	288	8.
1	0515	64	10.	*	1	1130	139	47.	*	1	1745	214	15.	*	2	0000	289	8.
1	0520	65	10.	*	1	1135	140	76.	*	1	1750	215	14.	*	2	0005	290	8.
1	0525	66	10.	*	1	1140	141	113.	*	1	1755	216	14.	*	2	0010	291	7.
1	0530	67	10.	*	1	1145	142	205.	*	1	1800	217	14.	*	2	0015	292	7.
1	0535	68	11.	*	1	1150	143	351.	*	1	1805	218	14.	*	2	0020	293	6.
1	0540	69	11.	*	1	1155	144	534.	*	1	1810	219	14.	*	2	0025	294	6.
1	0545	70	11.	*	1	1200	145	756.	*	1	1815	220	13.	*	2	0030	295	5.
1	0550	71	11.	*	1	1205	146	1029.	*	1	1820	221	13.	*	2	0035	296	4.
1	0555	72	11.	*	1	1210	147	1202.	*	1	1825	222	13.	*	2	0040	297	4.
1	0600	73	11.	*	1	1215	148	1278.	*	1	1830	223	13.	*	2	0045	298	3.
1	0605	74	12.	*	1	1220	149	1281.	*	1	1835	224	12.	*	2	0050	299	3.
1	0610	75	12.	*	1	1225	150	1228.	*	1	1840	225	12.	*	2	0055	300	2.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
1281.	12.33	(CFS)	239.	68.	66.	66.
		(INCHES)	1.441	1.646	1.648	1.648
		(AC-FT)	118.	135.	135.	135.

CUMULATIVE AREA = 1.54 SQ MI

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          **************
          *            *
510 KK    *     K1-1K  *       Routing thru K2
          *            *
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511 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

HYDROGRAPH ROUTING DATA

512 RS STORAGE ROUTING

NSTPS	17	NUMBER OF SUBREACHES
ITYP	FLOW	TYPE OF INITIAL CONDITION
RSVRIC	.00	INITIAL CONDITION
X	.00	WORKING R AND D COEFFICIENT

513 RC NORMAL DEPTH CHANNEL

ANL	.048	LEFT OVERBANK N-VALUE
ANCH	.050	MAIN CHANNEL N-VALUE
ANR	.048	RIGHT OVERBANK N-VALUE
RLNTH	28440.	REACH LENGTH
SEL	.0276	ENERGY SLOPE
ELMAX	.0	MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

CROSS-SECTION DATA

		--- LEFT OVERBANK ---		+ ------ MAIN CHANNEL -------			+ --- RIGHT OVERBANK ---		
515 RY	ELEVATION	22.00	21.00	20.00	10.00	10.00	20.00	21.00	22.00
514 RX	DISTANCE	.00	20.00	55.00	85.00	235.00	259.00	289.00	309.00

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COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	62.56	126.52	191.89	258.66	326.84	396.43	467.43	539.83	613.63
OUTFLOW	.00	346.26	1102.62	2174.16	3523.39	5128.29	6974.10	9050.26	11348.88	13863.95
ELEVATION	10.00	10.63	11.26	11.89	12.53	13.16	13.79	14.42	15.05	15.68
STORAGE	688.85	765.47	843.49	922.92	1003.76	1086.01	1169.87	1265.28	1376.50	1498.71
OUTFLOW	16590.80	19525.76	22665.94	26009.10	29553.49	33297.78	37312.67	41938.03	46929.69	52326.15
ELEVATION	16.32	16.95	17.58	18.21	18.84	19.47	20.11	20.74	21.37	22.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 2174. TO 52326.
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.)

12/9 OK

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HYDROGRAPH AT STATION K1-1K
TRANSPOSITION AREA .0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
980.	13.42	(CFS)	244.	69.	67.	67.
		(INCHES)	1.471	1.667	1.667	1.667
		(AC-FT)	121.	137.	137.	137.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
7.	13.42	2.	1.	1.	1.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
11.16	13.42	10.38	10.11	10.11	10.11

CUMULATIVE AREA = 1.54 SQ MI

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

HYDROGRAPH AT STATION K1-1K
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
947.	13.42	(CFS)	237.	67.	65.	65.
		(INCHES)	1.432	1.625	1.625	1.625
		(AC-FT)	118.	133.	133.	133.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
7.	13.42	2.	1.	1.	1.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
11.13	13.42	10.37	10.11	10.10	10.10

CUMULATIVE AREA = 1.54 SQ MI

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HYDROGRAPH AT STATION K1-1K
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
900.	13.50	(CFS)	227.	64.	62.	62.
		(INCHES)	1.368	1.555	1.555	1.555
		(AC-FT)	112.	128.	128.	128.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
6.	13.50	2.	1.	1.	1.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
11.09	13.50	10.36	10.10	10.10	10.10

CUMULATIVE AREA = 1.54 SQ MI

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HYDROGRAPH AT STATION K1-1K
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
779.	13.50	(CFS)	203.	58.	56.	56.
		(INCHES)	1.225	1.398	1.398	1.398
		(AC-FT)	101.	115.	115.	115.

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

6.	13.50	2.	1.	1.	1.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
10.99	13.50	10.33	10.10	10.09	10.09

CUMULATIVE AREA = 1.54 SQ MI

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

HYDROGRAPH AT STATION K1-1K
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
719.	13.50	(CFS)	192.	55.	53.	53.
		(INCHES)	1.160	1.327	1.327	1.327
		(AC-FT)	95.	109.	109.	109.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
6.	13.50	2.	1.	1.	1.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
10.94	13.50	10.32	10.09	10.09	10.09

CUMULATIVE AREA = 1.54 SQ MI

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

HYDROGRAPH AT STATION K1-1K
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
580.	13.58	(CFS)	168.	48.	46.	46.
		(INCHES)	1.012	1.166	1.166	1.166
		(AC-FT)	83.	96.	96.	96.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
5.	13.58	2.	0.	0.	0.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
10.83	13.58	10.29	10.08	10.08	10.08

CUMULATIVE AREA = 1.54 SQ MI

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INTERPOLATED HYDROGRAPH AT K1-1K

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DA MON HRMN	ORD	FLOW	*	DA MON HRMN	ORD	FLOW	*	DA MON HRMN	ORD	FLOW	*	DA MON HRMN	ORD	FLOW

1	0000	1	0.	*	1	0615	76	9.	*	1	1230	151	26.	*	1	1845	226	18.
1	0005	2	0.	*	1	0620	77	9.	*	1	1235	152	27.	*	1	1850	227	18.
1	0010	3	0.	*	1	0625	78	10.	*	1	1240	153	29.	*	1	1855	228	17.
1	0015	4	0.	*	1	0630	79	10.	*	1	1245	154	32.	*	1	1900	229	17.
1	0020	5	0.	*	1	0635	80	10.	*	1	1250	155	38.	*	1	1905	230	17.
1	0025	6	0.	*	1	0640	81	10.	*	1	1255	156	51.	*	1	1910	231	16.
1	0030	7	0.	*	1	0645	82	10.	*	1	1300	157	80.	*	1	1915	232	16.
1	0035	8	0.	*	1	0650	83	10.	*	1	1305	158	149.	*	1	1920	233	16.
1	0040	9	0.	*	1	0655	84	10.	*	1	1310	159	307.	*	1	1925	234	16.
1	0045	10	0.	*	1	0700	85	10.	*	1	1315	160	654.	*	1	1930	235	16.
1	0050	11	0.	*	1	0705	86	10.	*	1	1320	161	878.	*	1	1935	236	15.
1	0055	12	0.	*	1	0710	87	10.	*	1	1325	162	953.	*	1	1940	237	15.
1	0100	13	0.	*	1	0715	88	10.	*	1	1330	163	947.	*	1	1945	238	15.
1	0105	14	0.	*	1	0720	89	10.	*	1	1335	164	898.	*	1	1950	239	15.
1	0110	15	0.	*	1	0725	90	10.	*	1	1340	165	827.	*	1	1955	240	15.
1	0115	16	0.	*	1	0730	91	10.	*	1	1345	166	747.	*	1	2000	241	14.
1	0120	17	0.	*	1	0735	92	11.	*	1	1350	167	667.	*	1	2005	242	14.
1	0125	18	0.	*	1	0740	93	11.	*	1	1355	168	591.	*	1	2010	243	14.
1	0130	19	0.	*	1	0745	94	11.	*	1	1400	169	525.	*	1	2015	244	14.
1	0135	20	0.	*	1	0750	95	11.	*	1	1405	170	469.	*	1	2020	245	14.
1	0140	21	0.	*	1	0755	96	11.	*	1	1410	171	424.	*	1	2025	246	13.
1	0145	22	0.	*	1	0800	97	11.	*	1	1415	172	392.	*	1	2030	247	13.
1	0150	23	0.	*	1	0805	98	11.	*	1	1420	173	370.	*	1	2035	248	13.
1	0155	24	0.	*	1	0810	99	11.	*	1	1425	174	356.	*	1	2040	249	13.
1	0200	25	0.	*	1	0815	100	11.	*	1	1430	175	349.	*	1	2045	250	13.
1	0205	26	1.	*	1	0820	101	12.	*	1	1435	176	345.	*	1	2050	251	13.
1	0210	27	1.	*	1	0825	102	12.	*	1	1440	177	343.	*	1	2055	252	12.
1	0215	28	1.	*	1	0830	103	12.	*	1	1445	178	340.	*	1	2100	253	12.
1	0220	29	1.	*	1	0835	104	12.	*	1	1450	179	335.	*	1	2105	254	12.
1	0225	30	2.	*	1	0840	105	12.	*	1	1455	180	329.	*	1	2110	255	12.
1	0230	31	2.	*	1	0845	106	12.	*	1	1500	181	321.	*	1	2115	256	12.
1	0235	32	2.	*	1	0850	107	12.	*	1	1505	182	312.	*	1	2120	257	12.
1	0240	33	3.	*	1	0855	108	12.	*	1	1510	183	301.	*	1	2125	258	12.
1	0245	34	3.	*	1	0900	109	12.	*	1	1515	184	289.	*	1	2130	259	12.
1	0250	35	3.	*	1	0905	110	12.	*	1	1520	185	275.	*	1	2135	260	11.
1	0255	36	4.	*	1	0910	111	13.	*	1	1525	186	260.	*	1	2140	261	11.
1	0300	37	4.	*	1	0915	112	13.	*	1	1530	187	245.	*	1	2145	262	11.
1	0305	38	5.	*	1	0920	113	13.	*	1	1535	188	229.	*	1	2150	263	11.
1	0310	39	5.	*	1	0925	114	13.	*	1	1540	189	213.	*	1	2155	264	11.
1	0315	40	5.	*	1	0930	115	13.	*	1	1545	190	197.	*	1	2200	265	11.
1	0320	41	5.	*	1	0935	116	13.	*	1	1550	191	182.	*	1	2205	266	11.
1	0325	42	6.	*	1	0940	117	14.	*	1	1555	192	167.	*	1	2210	267	11.
1	0330	43	6.	*	1	0945	118	14.	*	1	1600	193	153.	*	1	2215	268	11.
1	0335	44	6.	*	1	0950	119	14.	*	1	1605	194	139.	*	1	2220	269	11.
1	0340	45	6.	*	1	0955	120	14.	*	1	1610	195	127.	*	1	2225	270	10.
1	0345	46	7.	*	1	1000	121	14.	*	1	1615	196	116.	*	1	2230	271	10.
1	0350	47	7.	*	1	1005	122	14.	*	1	1620	197	105.	*	1	2235	272	10.
1	0355	48	7.	*	1	1010	123	15.	*	1	1625	198	95.	*	1	2240	273	10.
1	0400	49	7.	*	1	1015	124	15.	*	1	1630	199	87.	*	1	2245	274	10.
1	0405	50	7.	*	1	1020	125	15.	*	1	1635	200	79.	*	1	2250	275	10.
1	0410	51	7.	*	1	1025	126	15.	*	1	1640	201	71.	*	1	2255	276	10.
1	0415	52	7.	*	1	1030	127	16.	*	1	1645	202	65.	*	1	2300	277	10.
1	0420	53	8.	*	1	1035	128	16.	*	1	1650	203	59.	*	1	2305	278	10.
1	0425	54	8.	*	1	1040	129	16.	*	1	1655	204	54.	*	1	2310	279	10.
1	0430	55	8.	*	1	1045	130	16.	*	1	1700	205	49.	*	1	2315	280	10.
1	0435	56	8.	*	1	1050	131	17.	*	1	1705	206	45.	*	1	2320	281	10.
1	0440	57	8.	*	1	1055	132	17.	*	1	1710	207	41.	*	1	2325	282	9.
1	0445	58	8.	*	1	1100	133	17.	*	1	1715	208	38.	*	1	2330	283	9.
1	0450	59	8.	*	1	1105	134	18.	*	1	1720	209	35.	*	1	2335	284	9.

1	0455	60	8.	*	1	1110	135	18.	*	1	1725	210	33.	*	1	2340	285	9.
1	0500	61	8.	*	1	1115	136	18.	*	1	1730	211	31.	*	1	2345	286	9.
1	0505	62	8.	*	1	1120	137	19.	*	1	1735	212	29.	*	1	2350	287	9.
1	0510	63	9.	*	1	1125	138	19.	*	1	1740	213	27.	*	1	2355	288	9.
1	0515	64	9.	*	1	1130	139	19.	*	1	1745	214	26.	*	2	0000	289	9.
1	0520	65	9.	*	1	1135	140	20.	*	1	1750	215	25.	*	2	0005	290	9.
1	0525	66	9.	*	1	1140	141	20.	*	1	1755	216	24.	*	2	0010	291	9.
1	0530	67	9.	*	1	1145	142	20.	*	1	1800	217	23.	*	2	0015	292	9.
1	0535	68	9.	*	1	1150	143	21.	*	1	1805	218	22.	*	2	0020	293	9.
1	0540	69	9.	*	1	1155	144	21.	*	1	1810	219	21.	*	2	0025	294	9.
1	0545	70	9.	*	1	1200	145	22.	*	1	1815	220	21.	*	2	0030	295	9.
1	0550	71	9.	*	1	1205	146	22.	*	1	1820	221	20.	*	2	0035	296	9.
1	0555	72	9.	*	1	1210	147	23.	*	1	1825	222	19.	*	2	0040	297	9.
1	0600	73	9.	*	1	1215	148	24.	*	1	1830	223	19.	*	2	0045	298	9.
1	0605	74	9.	*	1	1220	149	24.	*	1	1835	224	19.	*	2	0050	299	8.
1	0610	75	9.	*	1	1225	150	25.	*	1	1840	225	18.	*	2	0055	300	8.
				*					*					*				

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
953.	13.42	(CFS)	238.	68.	65.	65.
		(INCHES)	1.439	1.633	1.633	1.633
		(AC-FT)	118.	134.	134.	134.

CUMULATIVE AREA = 1.54 SQ MI

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          **************
          *            *
516 KK    *        K2  *
          *            *
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BASIN K2
THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
L= 5.4 Lca= 3.8 S= 146.0 Kn= .060 LAG= 106.0
PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN

521 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

SUBBASIN RUNOFF DATA

522 BA SUBBASIN CHARACTERISTICS

TAREA	2.42	SUBBASIN AREA

523 LG GREEN AND AMPT LOSS RATE

STRTL	.19	STARTING LOSS
DTH	.35	MOISTURE DEFICIT
PSIF	3.77	WETTING FRONT SUCTION
XKSAT	.30	HYDRAULIC CONDUCTIVITY
RTIMP	1.00	PERCENT IMPERVIOUS AREA

522 UI INPUT UNITGRAPH, 63 ORDINATES, VOLUME = 1.00

77.0	77.0	77.0	77.0	99.0	252.0	279.0	316.0	360.0	387.0
419.0	442.0	470.0	508.0	552.0	589.0	635.0	735.0	875.0	955.0
994.0	876.0	789.0	723.0	671.0	630.0	597.0	543.0	503.0	470.0
435.0	396.0	371.0	343.0	294.0	229.0	204.0	136.0	136.0	132.0
126.0	126.0	103.0	77.0	77.0	77.0	77.0	45.0	24.0	24.0
24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
24.0	24.0	24.0							

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HYDROGRAPH AT STATION K2
TRANSPOSITION AREA .0 SQ MI

TOTAL RAINFALL = 4.20, TOTAL LOSS = 2.88, TOTAL EXCESS = 1.32

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1125.	13.42	(CFS)	340.	86.	83.	83.
		(INCHES)	1.307	1.319	1.319	1.319
		(AC-FT)	169.	170.	170.	170.

CUMULATIVE AREA = 2.42 SQ MI

WARNING EXCESS AT PONDING LESS THAN ZERO FOR PERIOD. EXCESS SET TO ZERO

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HYDROGRAPH AT STATION K2
TRANSPOSITION AREA 5.0 SQ MI

TOTAL RAINFALL = 4.12, TOTAL LOSS = 2.84, TOTAL EXCESS = 1.28

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1092.	13.42	(CFS)	329.	83.	80.	80.
		(INCHES)	1.266	1.278	1.278	1.278
		(AC-FT)	163.	165.	165.	165.

CUMULATIVE AREA = 2.42 SQ MI

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HYDROGRAPH AT STATION K2
TRANSPOSITION AREA 10.0 SQ MI

TOTAL RAINFALL = 3.99, TOTAL LOSS = 2.77, TOTAL EXCESS = 1.22

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1041.	13.42	(CFS)	313.	79.	76.	76.

(INCHES)	1.203	1.215	1.215	1.215
(AC-FT)	155.	157.	157.	157.

CUMULATIVE AREA = 2.42 SQ MI

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HYDROGRAPH AT STATION K2
TRANSPOSITION AREA 50.0 SQ MI

TOTAL RAINFALL = 3.70, TOTAL LOSS = 2.61, TOTAL EXCESS = 1.09

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
932.	13.42	(CFS)	280.	71.	68.	68.
		(INCHES)	1.077	1.088	1.088	1.088
		(AC-FT)	139.	140.	140.	140.

CUMULATIVE AREA = 2.42 SQ MI

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HYDROGRAPH AT STATION K2
TRANSPOSITION AREA 100.0 SQ MI

TOTAL RAINFALL = 3.57, TOTAL LOSS = 2.54, TOTAL EXCESS = 1.03

K FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
883.	13.42	(CFS)	266.	67.	65.	65.
		(INCHES)	1.021	1.031	1.031	1.031
		(AC-FT)	132.	133.	133.	133.

CUMULATIVE AREA = 2.42 SQ MI

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HYDROGRAPH AT STATION K2
TRANSPOSITION AREA 500.0 SQ MI

TOTAL RAINFALL = 3.28, TOTAL LOSS = 2.38, TOTAL EXCESS = .90

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
773.	13.50	(CFS)	233.	59.	57.	57.
		(INCHES)	.894	.903	.903	.903
		(AC-FT)	115.	117.	117.	117.

CUMULATIVE AREA = 2.42 SQ MI

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INTERPOLATED HYDROGRAPH AT K2

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* * *

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
					*						*						*					
1		0000	1	0.	*	1		0615	76	1.	*	1		1230	151	462.	*	1		1845	226	1.
1		0005	2	0.	*	1		0620	77	1.	*	1		1235	152	502.	*	1		1850	227	1.
1		0010	3	0.	*	1		0625	78	1.	*	1		1240	153	542.	*	1		1855	228	1.
1		0015	4	0.	*	1		0630	79	1.	*	1		1245	154	583.	*	1		1900	229	1.
1		0020	5	0.	*	1		0635	80	1.	*	1		1250	155	626.	*	1		1905	230	1.
1		0025	6	0.	*	1		0640	81	1.	*	1		1255	156	671.	*	1		1910	231	1.
1		0030	7	0.	*	1		0645	82	1.	*	1		1300	157	732.	*	1		1915	232	1.
1		0035	8	0.	*	1		0650	83	1.	*	1		1305	158	816.	*	1		1920	233	1.
1		0040	9	0.	*	1		0655	84	1.	*	1		1310	159	909.	*	1		1925	234	1.
1		0045	10	0.	*	1		0700	85	1.	*	1		1315	160	1002.	*	1		1930	235	1.
1		0050	11	0.	*	1		0705	86	1.	*	1		1320	161	1062.	*	1		1935	236	1.
1		0055	12	0.	*	1		0710	87	1.	*	1		1325	162	1096.	*	1		1940	237	1.
1		0100	13	0.	*	1		0715	88	1.	*	1		1330	163	1095.	*	1		1945	238	1.
1		0105	14	0.	*	1		0720	89	1.	*	1		1335	164	1054.	*	1		1950	239	1.
1		0110	15	0.	*	1		0725	90	1.	*	1		1340	165	987.	*	1		1955	240	1.
1		0115	16	0.	*	1		0730	91	1.	*	1		1345	166	905.	*	1		2000	241	1.
1		0120	17	0.	*	1		0735	92	1.	*	1		1350	167	837.	*	1		2005	242	1.
1		0125	18	0.	*	1		0740	93	1.	*	1		1355	168	778.	*	1		2010	243	1.
1		0130	19	0.	*	1		0745	94	1.	*	1		1400	169	726.	*	1		2015	244	1.
1		0135	20	0.	*	1		0750	95	1.	*	1		1405	170	677.	*	1		2020	245	1.
1		0140	21	0.	*	1		0755	96	1.	*	1		1410	171	627.	*	1		2025	246	1.
1		0145	22	0.	*	1		0800	97	1.	*	1		1415	172	579.	*	1		2030	247	1.
1		0150	23	0.	*	1		0805	98	1.	*	1		1420	173	537.	*	1		2035	248	1.
1		0155	24	0.	*	1		0810	99	1.	*	1		1425	174	493.	*	1		2040	249	1.
1		0200	25	0.	*	1		0815	100	1.	*	1		1430	175	442.	*	1		2045	250	1.
1		0205	26	0.	*	1		0820	101	1.	*	1		1435	176	394.	*	1		2050	251	1.
1		0210	27	0.	*	1		0825	102	1.	*	1		1440	177	339.	*	1		2055	252	1.
1		0215	28	1.	*	1		0830	103	1.	*	1		1445	178	290.	*	1		2100	253	1.
1		0220	29	1.	*	1		0835	104	1.	*	1		1450	179	245.	*	1		2105	254	1.
1		0225	30	1.	*	1		0840	105	1.	*	1		1455	180	209.	*	1		2110	255	1.
1		0230	31	1.	*	1		0845	106	1.	*	1		1500	181	187.	*	1		2115	256	1.
1		0235	32	1.	*	1		0850	107	1.	*	1		1505	182	166.	*	1		2120	257	1.
1		0240	33	1.	*	1		0855	108	1.	*	1		1510	183	153.	*	1		2125	258	1.
1		0245	34	1.	*	1		0900	109	1.	*	1		1515	184	140.	*	1		2130	259	1.
1		0250	35	1.	*	1		0905	110	1.	*	1		1520	185	128.	*	1		2135	260	1.
1		0255	36	1.	*	1		0910	111	1.	*	1		1525	186	117.	*	1		2140	261	1.
1		0300	37	1.	*	1		0915	112	1.	*	1		1530	187	100.	*	1		2145	262	1.
1		0305	38	1.	*	1		0920	113	1.	*	1		1535	188	83.	*	1		2150	263	1.
1		0310	39	1.	*	1		0925	114	1.	*	1		1540	189	72.	*	1		2155	264	1.
1		0315	40	1.	*	1		0930	115	1.	*	1		1545	190	61.	*	1		2200	265	1.
1		0320	41	1.	*	1		0935	116	2.	*	1		1550	191	50.	*	1		2205	266	1.
1		0325	42	1.	*	1		0940	117	2.	*	1		1555	192	38.	*	1		2210	267	1.
1		0330	43	1.	*	1		0945	118	2.	*	1		1600	193	34.	*	1		2215	268	1.
1		0335	44	1.	*	1		0950	119	2.	*	1		1605	194	33.	*	1		2220	269	1.
1		0340	45	1.	*	1		0955	120	2.	*	1		1610	195	33.	*	1		2225	270	1.
1		0345	46	1.	*	1		1000	121	2.	*	1		1615	196	33.	*	1		2230	271	1.
1		0350	47	1.	*	1		1005	122	2.	*	1		1620	197	33.	*	1		2235	272	1.
1		0355	48	1.	*	1		1010	123	2.	*	1		1625	198	33.	*	1		2240	273	1.
1		0400	49	1.	*	1		1015	124	2.	*	1		1630	199	32.	*	1		2245	274	1.
1		0405	50	1.	*	1		1020	125	2.	*	1		1635	200	32.	*	1		2250	275	1.
1		0410	51	1.	*	1		1025	126	2.	*	1		1640	201	32.	*	1		2255	276	1.
1		0415	52	1.	*	1		1030	127	2.	*	1		1645	202	32.	*	1		2300	277	1.
1		0420	53	1.	*	1		1035	128	2.	*	1		1650	203	27.	*	1		2305	278	1.
1		0425	54	1.	*	1		1040	129	2.	*	1		1655	204	22.	*	1		2310	279	1.
1		0430	55	1.	*	1		1045	130	2.	*	1		1700	205	17.	*	1		2315	280	1.
1		0435	56	1.	*	1		1050	131	2.	*	1		1705	206	12.	*	1		2320	281	1.
1		0440	57	1.	*	1		1055	132	2.	*	1		1710	207	7.	*	1		2325	282	1.
1		0445	58	1.	*	1		1100	133	2.	*	1		1715	208	2.	*	1		2330	283	1.

1	0450	59	1.	*	1	1105	134	2.	*	1	1720	209	2.	*	1	2335	284	1.
1	0455	60	1.	*	1	1110	135	2.	*	1	1725	210	2.	*	1	2340	285	1.
1	0500	61	1.	*	1	1115	136	2.	*	1	1730	211	2.	*	1	2345	286	1.
1	0505	62	1.	*	1	1120	137	2.	*	1	1735	212	2.	*	1	2350	287	1.
1	0510	63	1.	*	1	1125	138	2.	*	1	1740	213	2.	*	1	2355	288	1.
1	0515	64	1.	*	1	1130	139	3.	*	1	1745	214	2.	*	2	0000	289	1.
1	0520	65	1.	*	1	1135	140	18.	*	1	1750	215	2.	*	2	0005	290	1.
1	0525	66	1.	*	1	1140	141	34.	*	1	1755	216	2.	*	2	0010	291	1.
1	0530	67	1.	*	1	1145	142	50.	*	1	1800	217	2.	*	2	0015	292	1.
1	0535	68	1.	*	1	1150	143	67.	*	1	1805	218	2.	*	2	0020	293	1.
1	0540	69	1.	*	1	1155	144	87.	*	1	1810	219	2.	*	2	0025	294	1.
1	0545	70	1.	*	1	1200	145	140.	*	1	1815	220	1.	*	2	0030	295	1.
1	0550	71	1.	*	1	1205	146	181.	*	1	1820	221	1.	*	2	0035	296	1.
1	0555	72	1.	*	1	1210	147	231.	*	1	1825	222	1.	*	2	0040	297	1.
1	0600	73	1.	*	1	1215	148	290.	*	1	1830	223	1.	*	2	0045	298	1.
1	0605	74	1.	*	1	1220	149	355.	*	1	1835	224	1.	*	2	0050	299	1.
1	0610	75	1.	*	1	1225	150	422.	*	1	1840	225	1.	*	2	0055	300	1.
				*					*					*				

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PEAK FLOW (CFS)	TIME (HR)		6-HR	MAXIMUM AVERAGE FLOW 24-HR	72-HR	24.92-HR
1096.	13.42	(CFS)	331.	83.	80.	80.
		(INCHES)	1.271	1.283	1.283	1.283
		(AC-FT)	164.	166.	166.	166.

CUMULATIVE AREA = 2.42 SQ MI

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          **************
          *            *
532 KK    *   RTV-1K   *      Retrieve Divert
          *            *
          **************

533 DR         RETRIEVE DIVERSION HYDROGRAPH
                    ISTAD       1J-D  DIVERSION HYDROGRAPH IDENTIFICATION

                                                        ***

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

                      HYDROGRAPH AT STATION   RTV-1K
                     TRANSPOSITION AREA       .0 SQ MI
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PEAK FLOW (CFS)	TIME (HR)		6-HR	MAXIMUM AVERAGE FLOW 24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 1.77 SQ MI

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     ***           ***           ***           ***           ***
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HYDROGRAPH AT STATION RTV-1K
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 1.77 SQ MI

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

HYDROGRAPH AT STATION RTV-1K
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 1.77 SQ MI

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

HYDROGRAPH AT STATION RTV-1K
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 1.77 SQ MI

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

HYDROGRAPH AT STATION RTV-1K
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 1.77 SQ MI

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

HYDROGRAPH AT STATION RTV-1K
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 1.77 SQ MI

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INTERPOLATED HYDROGRAPH AT RTV-1K

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

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

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 1.77 SQ MI

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          *            *
534 KK    *        1K  *
          *            *
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Combining K1 & K2 & IJ-D

536 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE

IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

537 HC HYDROGRAPH COMBINATION

ICOMP 3 NUMBER OF HYDROGRAPHS TO COMBINE

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

HYDROGRAPH AT STATION 1K
TRANSPOSITION AREA .0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2105.	13.42	(CFS)	583.	155.	149.	149.
		(INCHES)	1.369	1.454	1.454	1.454
		(AC-FT)	289.	307.	307.	307.

CUMULATIVE AREA = 3.96 SQ MI

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

HYDROGRAPH AT STATION 1K
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2039.	13.42	(CFS)	566.	150.	145.	145.
		(INCHES)	1.329	1.413	1.413	1.413
		(AC-FT)	281.	298.	298.	298.

CUMULATIVE AREA = 3.96 SQ MI

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

HYDROGRAPH AT STATION 1K
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1939.	13.50	(CFS)	539.	143.	138.	138.
		(INCHES)	1.266	1.347	1.347	1.347
		(AC-FT)	267.	284.	284.	284.

CUMULATIVE AREA = 3.96 SQ MI

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

HYDROGRAPH AT STATION 1K
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW TIME MAXIMUM AVERAGE FLOW

(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
1711.	13.50	(CFS)	483.	129.	124.	124.
		(INCHES)	1.133	1.208	1.208	1.208
		(AC-FT)	239.	255.	255.	255.

CUMULATIVE AREA = 3.96 SQ MI

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

HYDROGRAPH AT STATION 1K
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
1602.	13.50	(CFS)	457.	122.	118.	118.
		(INCHES)	1.074	1.146	1.146	1.146
		(AC-FT)	227.	242.	242.	242.

CUMULATIVE AREA = 3.96 SQ MI

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

HYDROGRAPH AT STATION 1K
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
1325.	13.58	(CFS)	400.	107.	103.	103.
		(INCHES)	.939	1.005	1.005	1.005
		(AC-FT)	198.	212.	212.	212.

CUMULATIVE AREA = 3.96 SQ MI

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INTERPOLATED HYDROGRAPH AT 1K

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	10.	*	1		1230	151	487.	*	1		1845	226	19.
1		0005	2	0.	*	1		0620	77	10.	*	1		1235	152	528.	*	1		1850	227	19.
1		0010	3	0.	*	1		0625	78	10.	*	1		1240	153	570.	*	1		1855	228	18.
1		0015	4	0.	*	1		0630	79	11.	*	1		1245	154	613.	*	1		1900	229	18.
1		0020	5	0.	*	1		0635	80	11.	*	1		1250	155	662.	*	1		1905	230	18.
1		0025	6	0.	*	1		0640	81	11.	*	1		1255	156	720.	*	1		1910	231	18.
1		0030	7	0.	*	1		0645	82	11.	*	1		1300	157	810.	*	1		1915	232	17.
1		0035	8	0.	*	1		0650	83	11.	*	1		1305	158	961.	*	1		1920	233	17.
1		0040	9	0.	*	1		0655	84	11.	*	1		1310	159	1208.	*	1		1925	234	17.
1		0045	10	0.	*	1		0700	85	11.	*	1		1315	160	1640.	*	1		1930	235	17.
1		0050	11	0.	*	1		0705	86	11.	*	1		1320	161	1930.	*	1		1935	236	17.
1		0055	12	0.	*	1		0710	87	11.	*	1		1325	162	2042.	*	1		1940	237	16.
1		0100	13	0.	*	1		0715	88	11.	*	1		1330	163	2036.	*	1		1945	238	16.
1		0105	14	0.	*	1		0720	89	11.	*	1		1335	164	1946.	*	1		1950	239	16.
1		0110	15	0.	*	1		0725	90	11.	*	1		1340	165	1809.	*	1		1955	240	16.
1		0115	16	0.	*	1		0730	91	12.	*	1		1345	166	1647.	*	1		2000	241	15.

1	0120	17	0.	*	1	0735	92	12.	*	1	1350	167	1499.	*	1	2005	242	15.
1	0125	18	0.	*	1	0740	93	12.	*	1	1355	168	1365.	*	1	2010	243	15.
1	0130	19	0.	*	1	0745	94	12.	*	1	1400	169	1247.	*	1	2015	244	15.
1	0135	20	0.	*	1	0750	95	12.	*	1	1405	170	1142.	*	1	2020	245	15.
1	0140	21	0.	*	1	0755	96	12.	*	1	1410	171	1049.	*	1	2025	246	14.
1	0145	22	0.	*	1	0800	97	12.	*	1	1415	172	969.	*	1	2030	247	14.
1	0150	23	1.	*	1	0805	98	12.	*	1	1420	173	905.	*	1	2035	248	14.
1	0155	24	1.	*	1	0810	99	12.	*	1	1425	174	847.	*	1	2040	249	14.
1	0200	25	1.	*	1	0815	100	13.	*	1	1430	175	790.	*	1	2045	250	14.
1	0205	26	1.	*	1	0820	101	13.	*	1	1435	176	738.	*	1	2050	251	14.
1	0210	27	1.	*	1	0825	102	13.	*	1	1440	177	681.	*	1	2055	252	13.
1	0215	28	2.	*	1	0830	103	13.	*	1	1445	178	629.	*	1	2100	253	13.
1	0220	29	2.	*	1	0835	104	13.	*	1	1450	179	579.	*	1	2105	254	13.
1	0225	30	2.	*	1	0840	105	13.	*	1	1455	180	538.	*	1	2110	255	13.
1	0230	31	3.	*	1	0845	106	13.	*	1	1500	181	508.	*	1	2115	256	13.
1	0235	32	3.	*	1	0850	107	13.	*	1	1505	182	477.	*	1	2120	257	13.
1	0240	33	3.	*	1	0855	108	14.	*	1	1510	183	453.	*	1	2125	258	13.
1	0245	34	4.	*	1	0900	109	14.	*	1	1515	184	428.	*	1	2130	259	12.
1	0250	35	4.	*	1	0905	110	14.	*	1	1520	185	402.	*	1	2135	260	12.
1	0255	36	4.	*	1	0910	111	14.	*	1	1525	186	377.	*	1	2140	261	12.
1	0300	37	5.	*	1	0915	112	14.	*	1	1530	187	344.	*	1	2145	262	12.
1	0305	38	5.	*	1	0920	113	14.	*	1	1535	188	312.	*	1	2150	263	12.
1	0310	39	6.	*	1	0925	114	14.	*	1	1540	189	285.	*	1	2155	264	12.
1	0315	40	6.	*	1	0930	115	15.	*	1	1545	190	258.	*	1	2200	265	12.
1	0320	41	6.	*	1	0935	116	15.	*	1	1550	191	231.	*	1	2205	266	12.
1	0325	42	6.	*	1	0940	117	15.	*	1	1555	192	205.	*	1	2210	267	12.
1	0330	43	7.	*	1	0945	118	15.	*	1	1600	193	186.	*	1	2215	268	12.
1	0335	44	7.	*	1	0950	119	15.	*	1	1605	194	172.	*	1	2220	269	11.
1	0340	45	7.	*	1	0955	120	16.	*	1	1610	195	160.	*	1	2225	270	11.
1	0345	46	7.	*	1	1000	121	16.	*	1	1615	196	148.	*	1	2230	271	11.
1	0350	47	7.	*	1	1005	122	16.	*	1	1620	197	137.	*	1	2235	272	11.
1	0355	48	8.	*	1	1010	123	16.	*	1	1625	198	128.	*	1	2240	273	11.
1	0400	49	8.	*	1	1015	124	17.	*	1	1630	199	119.	*	1	2245	274	11.
1	0405	50	8.	*	1	1020	125	17.	*	1	1635	200	111.	*	1	2250	275	11.
1	0410	51	8.	*	1	1025	126	17.	*	1	1640	201	103.	*	1	2255	276	11.
1	0415	52	8.	*	1	1030	127	17.	*	1	1645	202	97.	*	1	2300	277	11.
1	0420	53	8.	*	1	1035	128	18.	*	1	1650	203	86.	*	1	2305	278	11.
1	0425	54	8.	*	1	1040	129	18.	*	1	1655	204	76.	*	1	2310	279	10.
1	0430	55	9.	*	1	1045	130	18.	*	1	1700	205	66.	*	1	2315	280	10.
1	0435	56	9.	*	1	1050	131	19.	*	1	1705	206	57.	*	1	2320	281	10.
1	0440	57	9.	*	1	1055	132	19.	*	1	1710	207	48.	*	1	2325	282	10.
1	0445	58	9.	*	1	1100	133	19.	*	1	1715	208	40.	*	1	2330	283	10.
1	0450	59	9.	*	1	1105	134	20.	*	1	1720	209	37.	*	1	2335	284	10.
1	0455	60	9.	*	1	1110	135	20.	*	1	1725	210	35.	*	1	2340	285	10.
1	0500	61	9.	*	1	1115	136	20.	*	1	1730	211	33.	*	1	2345	286	10.
1	0505	62	9.	*	1	1120	137	21.	*	1	1735	212	31.	*	1	2350	287	10.
1	0510	63	9.	*	1	1125	138	21.	*	1	1740	213	29.	*	1	2355	288	10.
1	0515	64	9.	*	1	1130	139	22.	*	1	1745	214	27.	*	2	0000	289	10.
1	0520	65	10.	*	1	1135	140	38.	*	1	1750	215	26.	*	2	0005	290	10.
1	0525	66	10.	*	1	1140	141	54.	*	1	1755	216	25.	*	2	0010	291	10.
1	0530	67	10.	*	1	1145	142	71.	*	1	1800	217	24.	*	2	0015	292	10.
1	0535	68	10.	*	1	1150	143	87.	*	1	1805	218	23.	*	2	0020	293	10.
1	0540	69	10.	*	1	1155	144	108.	*	1	1810	219	23.	*	2	0025	294	10.
1	0545	70	10.	*	1	1200	145	161.	*	1	1815	220	22.	*	2	0030	295	9.
1	0550	71	10.	*	1	1205	146	203.	*	1	1820	221	21.	*	2	0035	296	9.
1	0555	72	10.	*	1	1210	147	253.	*	1	1825	222	21.	*	2	0040	297	9.
1	0600	73	10.	*	1	1215	148	313.	*	1	1830	223	20.	*	2	0045	298	9.
1	0605	74	10.	*	1	1220	149	378.	*	1	1835	224	20.	*	2	0050	299	9.
1	0610	75	10.	*	1	1225	150	446.	*	1	1840	225	20.	*	2	0055	300	9.
				*					*					*				

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 PEAK FLOW    TIME                          MAXIMUM AVERAGE FLOW
   (CFS)      (HR)                 6-HR      24-HR       72-HR     24.92-HR
   2042.     13.42      (CFS)      567.        151.        145.        145.
                      (INCHES)    1.331       1.414       1.414       1.414
                       (AC-FT)     281.        299.        299.        299.

                      CUMULATIVE AREA =    3.96 SQ MI


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

               ***************
               *             *
 538 KK        *    DIV-1K   *       Divert 1K-D
               *             *
               ***************

      DT          DIVERSION
                        ISTAD        1K-D  DIVERSION HYDROGRAPH IDENTIFICATION

      DI              INFLOW     2699.00   2849.00   3014.00   3203.00   3425.00   3670.00

      DQ       DIVERTED FLOW         .00     10.00     44.00    109.00    213.00    371.00

                                                                 ***

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

                         DIVERSION HYDROGRAPH      1K-D
                       TRANSPOSITION AREA        .0 SQ MI

 PEAK FLOW    TIME                          MAXIMUM AVERAGE FLOW
   (CFS)      (HR)                 6-HR      24-HR       72-HR     24.92-HR
      0.       .08      (CFS)        0.          0.          0.          0.
                      (INCHES)     .000        .000        .000        .000
                       (AC-FT)       0.          0.          0.          0.

                      CUMULATIVE AREA =    3.96 SQ MI

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

                        HYDROGRAPH AT STATION   DIV-1K
                       TRANSPOSITION AREA        .0 SQ MI

 PEAK FLOW    TIME                          MAXIMUM AVERAGE FLOW
   (CFS)      (HR)                 6-HR      24-HR       72-HR     24.92-HR
   2105.     13.42      (CFS)      583.        155.        149.        149.
                      (INCHES)    1.369       1.454       1.454       1.454
                       (AC-FT)     289.        307.        307.        307.

                      CUMULATIVE AREA =    3.96 SQ MI

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DIVERSION HYDROGRAPH 1K-D
TRANSPOSITION AREA 5.0 SQ MI

K FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 3.96 SQ MI

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

HYDROGRAPH AT STATION DIV-1K
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2039.	13.42	(CFS)	566.	150.	145.	145.
		(INCHES)	1.329	1.413	1.413	1.413
		(AC-FT)	281.	298.	298.	298.

CUMULATIVE AREA = 3.96 SQ MI

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DIVERSION HYDROGRAPH 1K-D
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 3.96 SQ MI

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

HYDROGRAPH AT STATION DIV-1K
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1939.	13.50	(CFS)	539.	143.	138.	138.
		(INCHES)	1.266	1.347	1.347	1.347
		(AC-FT)	267.	284.	284.	284.

CUMULATIVE AREA = 3.96 SQ MI

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

DIVERSION HYDROGRAPH 1K-D
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 3.96 SQ MI

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HYDROGRAPH AT STATION DIV-1K
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1711.	13.50	(CFS)	483.	129.	124.	124.
		(INCHES)	1.133	1.208	1.208	1.208
		(AC-FT)	239.	255.	255.	255.

CUMULATIVE AREA = 3.96 SQ MI

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DIVERSION HYDROGRAPH 1K-D
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 3.96 SQ MI

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HYDROGRAPH AT STATION DIV-1K
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1602.	13.50	(CFS)	457.	122.	118.	118.
		(INCHES)	1.074	1.146	1.146	1.146
		(AC-FT)	227.	242.	242.	242.

CUMULATIVE AREA = 3.96 SQ MI

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

DIVERSION HYDROGRAPH 1K-D
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000

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

CUMULATIVE AREA = 3.96 SQ MI

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

HYDROGRAPH AT STATION DIV-1K
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1325.	13.58	(CFS)	400.	107.	103.	103.
		(INCHES)	.939	1.005	1.005	1.005
		(AC-FT)	198.	212.	212.	212.

CUMULATIVE AREA = 3.96 SQ MI

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INTERPOLATED DIVERSION HYDROGRAPH AT 1K-D

****

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

1	0245	34	0.	*	1	0900	109	0.	*	1	1515	184	0.	*	1	2130	259	0.
1	0250	35	0.	*	1	0905	110	0.	*	1	1520	185	0.	*	1	2135	260	0.
1	0255	36	0.	*	1	0910	111	0.	*	1	1525	186	0.	*	1	2140	261	0.
1	0300	37	0.	*	1	0915	112	0.	*	1	1530	187	0.	*	1	2145	262	0.
1	0305	38	0.	*	1	0920	113	0.	*	1	1535	188	0.	*	1	2150	263	0.
1	0310	39	0.	*	1	0925	114	0.	*	1	1540	189	0.	*	1	2155	264	0.
1	0315	40	0.	*	1	0930	115	0.	*	1	1545	190	0.	*	1	2200	265	0.
1	0320	41	0.	*	1	0935	116	0.	*	1	1550	191	0.	*	1	2205	266	0.
1	0325	42	0.	*	1	0940	117	0.	*	1	1555	192	0.	*	1	2210	267	0.
1	0330	43	0.	*	1	0945	118	0.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	0.	*	1	0950	119	0.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	0.	*	1	0955	120	0.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	0.	*	1	1000	121	0.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	0.	*	1	1005	122	0.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	0.	*	1	1010	123	0.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	0.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	0.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	0.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	0.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	0.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	0.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	0.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	0.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	0.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	0.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	0.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	0.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	0.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	0.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	0.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	0.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	0.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	0.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	0.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	0.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	0.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	0.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	0.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	0.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	0.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	0.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	0.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 3.96 SQ MI

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INTERPOLATED HYDROGRAPH AT DIV-1K

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
					*						*						*					
1		0000	1	0.	*	1		0615	76	10.	*	1		1230	151	487.	*	1		1845	226	19.
1		0005	2	0.	*	1		0620	77	10.	*	1		1235	152	528.	*	1		1850	227	19.
1		0010	3	0.	*	1		0625	78	10.	*	1		1240	153	570.	*	1		1855	228	18.
1		0015	4	0.	*	1		0630	79	11.	*	1		1245	154	613.	*	1		1900	229	18.
1		0020	5	0.	*	1		0635	80	11.	*	1		1250	155	662.	*	1		1905	230	18.
1		0025	6	0.	*	1		0640	81	11.	*	1		1255	156	720.	*	1		1910	231	18.
1		0030	7	0.	*	1		0645	82	11.	*	1		1300	157	810.	*	1		1915	232	17.
1		0035	8	0.	*	1		0650	83	11.	*	1		1305	158	961.	*	1		1920	233	17.
1		0040	9	0.	*	1		0655	84	11.	*	1		1310	159	1208.	*	1		1925	234	17.
1		0045	10	0.	*	1		0700	85	11.	*	1		1315	160	1640.	*	1		1930	235	17.
1		0050	11	0.	*	1		0705	86	11.	*	1		1320	161	1930.	*	1		1935	236	17.
1		0055	12	0.	*	1		0710	87	11.	*	1		1325	162	2042.	*	1		1940	237	16.
1		0100	13	0.	*	1		0715	88	11.	*	1		1330	163	2036.	*	1		1945	238	16.
1		0105	14	0.	*	1		0720	89	11.	*	1		1335	164	1946.	*	1		1950	239	16.
1		0110	15	0.	*	1		0725	90	11.	*	1		1340	165	1809.	*	1		1955	240	16.
1		0115	16	0.	*	1		0730	91	12.	*	1		1345	166	1647.	*	1		2000	241	15.
1		0120	17	0.	*	1		0735	92	12.	*	1		1350	167	1499.	*	1		2005	242	15.
1		0125	18	0.	*	1		0740	93	12.	*	1		1355	168	1365.	*	1		2010	243	15.
1		0130	19	0.	*	1		0745	94	12.	*	1		1400	169	1247.	*	1		2015	244	15.
1		0135	20	0.	*	1		0750	95	12.	*	1		1405	170	1142.	*	1		2020	245	15.
1		0140	21	0.	*	1		0755	96	12.	*	1		1410	171	1049.	*	1		2025	246	14.
1		0145	22	0.	*	1		0800	97	12.	*	1		1415	172	969.	*	1		2030	247	14.
1		0150	23	1.	*	1		0805	98	12.	*	1		1420	173	905.	*	1		2035	248	14.
1		0155	24	1.	*	1		0810	99	12.	*	1		1425	174	847.	*	1		2040	249	14.
1		0200	25	1.	*	1		0815	100	13.	*	1		1430	175	790.	*	1		2045	250	14.
1		0205	26	1.	*	1		0820	101	13.	*	1		1435	176	738.	*	1		2050	251	14.
1		0210	27	1.	*	1		0825	102	13.	*	1		1440	177	681.	*	1		2055	252	13.
1		0215	28	2.	*	1		0830	103	13.	*	1		1445	178	629.	*	1		2100	253	13.
1		0220	29	2.	*	1		0835	104	13.	*	1		1450	179	579.	*	1		2105	254	13.
1		0225	30	2.	*	1		0840	105	13.	*	1		1455	180	538.	*	1		2110	255	13.
1		0230	31	3.	*	1		0845	106	13.	*	1		1500	181	508.	*	1		2115	256	13.
1		0235	32	3.	*	1		0850	107	13.	*	1		1505	182	477.	*	1		2120	257	13.
1		0240	33	3.	*	1		0855	108	14.	*	1		1510	183	453.	*	1		2125	258	13.
1		0245	34	4.	*	1		0900	109	14.	*	1		1515	184	428.	*	1		2130	259	12.
1		0250	35	4.	*	1		0905	110	14.	*	1		1520	185	402.	*	1		2135	260	12.
1		0255	36	4.	*	1		0910	111	14.	*	1		1525	186	377.	*	1		2140	261	12.
1		0300	37	5.	*	1		0915	112	14.	*	1		1530	187	344.	*	1		2145	262	12.
1		0305	38	5.	*	1		0920	113	14.	*	1		1535	188	312.	*	1		2150	263	12.
1		0310	39	6.	*	1		0925	114	14.	*	1		1540	189	285.	*	1		2155	264	12.
1		0315	40	6.	*	1		0930	115	15.	*	1		1545	190	258.	*	1		2200	265	12.
1		0320	41	6.	*	1		0935	116	15.	*	1		1550	191	231.	*	1		2205	266	12.
1		0325	42	6.	*	1		0940	117	15.	*	1		1555	192	205.	*	1		2210	267	12.
1		0330	43	7.	*	1		0945	118	15.	*	1		1600	193	186.	*	1		2215	268	12.
1		0335	44	7.	*	1		0950	119	15.	*	1		1605	194	172.	*	1		2220	269	11.
1		0340	45	7.	*	1		0955	120	16.	*	1		1610	195	160.	*	1		2225	270	11.
1		0345	46	7.	*	1		1000	121	16.	*	1		1615	196	148.	*	1		2230	271	11.
1		0350	47	7.	*	1		1005	122	16.	*	1		1620	197	137.	*	1		2235	272	11.
1		0355	48	8.	*	1		1010	123	16.	*	1		1625	198	128.	*	1		2240	273	11.
1		0400	49	8.	*	1		1015	124	17.	*	1		1630	199	119.	*	1		2245	274	11.
1		0405	50	8.	*	1		1020	125	17.	*	1		1635	200	111.	*	1		2250	275	11.
1		0410	51	8.	*	1		1025	126	17.	*	1		1640	201	103.	*	1		2255	276	11.
1		0415	52	8.	*	1		1030	127	17.	*	1		1645	202	97.	*	1		2300	277	11.
1		0420	53	8.	*	1		1035	128	18.	*	1		1650	203	86.	*	1		2305	278	11.
1		0425	54	8.	*	1		1040	129	18.	*	1		1655	204	76.	*	1		2310	279	10.
1		0430	55	9.	*	1		1045	130	18.	*	1		1700	205	66.	*	1		2315	280	10.
1		0435	56	9.	*	1		1050	131	19.	*	1		1705	206	57.	*	1		2320	281	10.
1		0440	57	9.	*	1		1055	132	19.	*	1		1710	207	48.	*	1		2325	282	10.
1		0445	58	9.	*	1		1100	133	19.	*	1		1715	208	40.	*	1		2330	283	10.

1	0450	59	9.	*	1	1105	134	20.	*	1	1720	209	37.	*	1	2335	284	10.
1	0455	60	9.	*	1	1110	135	20.	*	1	1725	210	35.	*	1	2340	285	10.
1	0500	61	9.	*	1	1115	136	20.	*	1	1730	211	33.	*	1	2345	286	10.
1	0505	62	9.	*	1	1120	137	21.	*	1	1735	212	31.	*	1	2350	287	10.
1	0510	63	9.	*	1	1125	138	21.	*	1	1740	213	29.	*	1	2355	288	10.
1	0515	64	9.	*	1	1130	139	22.	*	1	1745	214	27.	*	2	0000	289	10.
1	0520	65	10.	*	1	1135	140	38.	*	1	1750	215	26.	*	2	0005	290	10.
1	0525	66	10.	*	1	1140	141	54.	*	1	1755	216	25.	*	2	0010	291	10.
1	0530	67	10.	*	1	1145	142	71.	*	1	1800	217	24.	*	2	0015	292	10.
1	0535	68	10.	*	1	1150	143	87.	*	1	1805	218	23.	*	2	0020	293	10.
1	0540	69	10.	*	1	1155	144	108.	*	1	1810	219	23.	*	2	0025	294	10.
1	0545	70	10.	*	1	1200	145	161.	*	1	1815	220	22.	*	2	0030	295	9.
1	0550	71	10.	*	1	1205	146	203.	*	1	1820	221	21.	*	2	0035	296	9.
1	0555	72	10.	*	1	1210	147	253.	*	1	1825	222	21.	*	2	0040	297	9.
1	0600	73	10.	*	1	1215	148	313.	*	1	1830	223	20.	*	2	0045	298	9.
1	0605	74	10.	*	1	1220	149	378.	*	1	1835	224	20.	*	2	0050	299	9.
1	0610	75	10.	*	1	1225	150	446.	*	1	1840	225	20.	*	2	0055	300	9.
				*					*					*				

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2042.	13.42	(CFS)	567.	151.	145.	145.
		(INCHES)	1.331	1.414	1.414	1.414
		(AC-FT)	281.	299.	299.	299.

CUMULATIVE AREA = 3.96 SQ MI

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          *            *
542 KK    *     1K-4E  *       Routing thru K3
          *            *
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543 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

HYDROGRAPH ROUTING DATA

544 RS STORAGE ROUTING

NSTPS	18	NUMBER OF SUBREACHES
ITYP	FLOW	TYPE OF INITIAL CONDITION
RSVRIC	.00	INITIAL CONDITION
X	.00	WORKING R AND D COEFFICIENT

545 RC NORMAL DEPTH CHANNEL

ANL	.050	LEFT OVERBANK N-VALUE
ANCH	.048	MAIN CHANNEL N-VALUE
ANR	.050	RIGHT OVERBANK N-VALUE
RLNTH	23874.	REACH LENGTH
SEL	.0091	ENERGY SLOPE
ELMAX	.0	MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

CROSS-SECTION DATA

		--- LEFT OVERBANK ---			+ ------ MAIN CHANNEL -------			+ --- RIGHT OVERBANK ---	
547 RY	ELEVATION	16.50	14.50	11.50	10.00	10.00	11.50	14.50	16.50
546 RX	DISTANCE	.00	90.00	190.00	202.00	220.00	232.00	332.00	422.00

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COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	3.89	8.80	14.74	21.71	30.32	42.96	59.88	81.08	106.55
OUTFLOW	.00	9.47	32.10	67.53	116.61	188.85	291.02	427.73	606.15	832.57
ELEVATION	10.00	10.34	10.68	11.03	11.37	11.71	12.05	12.39	12.74	13.08
STORAGE	136.30	170.33	208.63	251.21	298.60	351.75	410.67	475.36	545.82	622.06
OUTFLOW	1112.80	1452.26	1856.12	2329.29	2854.26	3462.24	4164.17	4966.25	5874.56	6895.06
ELEVATION	13.42	13.76	14.11	14.45	14.79	15.13	15.47	15.82	16.16	16.50

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HYDROGRAPH AT STATION 1K-4E
TRANSPOSITION AREA .0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
1722.	14.67	(CFS)	579.	153.	147.	147.
		(INCHES)	1.361	1.435	1.435	1.435
		(AC-FT)	287.	303.	303.	303.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
11.	14.67	4.	1.	1.	1.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
13.99	14.67	12.36	10.80	10.77	10.77

CUMULATIVE AREA = 3.96 SQ MI

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HYDROGRAPH AT STATION 1K-4E
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
1659.	14.75	(CFS)	562.	148.	143.	143.
		(INCHES)	1.321	1.393	1.393	1.393
		(AC-FT)	279.	294.	294.	294.

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

11.	14.75		4.	1.	1.	1.

PEAK STAGE	TIME		MAXIMUM AVERAGE STAGE			
(FEET)	(HR)		6-HR	24-HR	72-HR	24.92-HR
13.94	14.75		12.33	10.79	10.76	10.76

CUMULATIVE AREA = 3.96 SQ MI

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HYDROGRAPH AT STATION 1K-4E
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
1567.	14.75	(CFS)	536.	141.	136.	136.
		(INCHES)	1.258	1.328	1.328	1.328
		(AC-FT)	266.	281.	281.	281.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
10.	14.75	4.	1.	1.	1.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
13.86	14.75	12.29	10.78	10.75	10.75

CUMULATIVE AREA = 3.96 SQ MI

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HYDROGRAPH AT STATION 1K-4E
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
1355.	14.83	(CFS)	479.	127.	122.	122.
		(INCHES)	1.125	1.190	1.190	1.190
		(AC-FT)	238.	251.	251.	251.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
9.	14.83	4.	1.	1.	1.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
13.67	14.83	12.20	10.74	10.72	10.72

CUMULATIVE AREA = 3.96 SQ MI

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

HYDROGRAPH AT STATION 1K-4E
TRANSPOSITION AREA 100.0 SQ MI

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

1264.	14.83	(CFS)	454.	120.	116.	116.
		(INCHES)	1.066	1.128	1.128	1.128
		(AC-FT)	225.	238.	238.	238.

STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
8.	14.83	3.	1.	1.	1.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
13.57	14.83	12.16	10.73	10.70	10.70

CUMULATIVE AREA = 3.96 SQ MI

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

HYDROGRAPH AT STATION 1K-4E
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
1049.	14.92	(CFS)	397.	105.	101.	101.
		(INCHES)	.932	.988	.988	.988
		(AC-FT)	197.	209.	209.	209.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
7.	14.92	3.	1.	1.	1.

AK STAGE	TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
13.34	14.92	12.05	10.69	10.66	10.66

CUMULATIVE AREA = 3.96 SQ MI

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INTERPOLATED HYDROGRAPH AT 1K-4E

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	1.	*	1		1230	151	16.	*	1		1845	226	73.
1		0005	2	0.	*	1		0620	77	1.	*	1		1235	152	16.	*	1		1850	227	69.
1		0010	3	0.	*	1		0625	78	1.	*	1		1240	153	16.	*	1		1855	228	65.
1		0015	4	0.	*	1		0630	79	1.	*	1		1245	154	17.	*	1		1900	229	62.
1		0020	5	0.	*	1		0635	80	2.	*	1		1250	155	17.	*	1		1905	230	58.
1		0025	6	0.	*	1		0640	81	2.	*	1		1255	156	18.	*	1		1910	231	54.
1		0030	7	0.	*	1		0645	82	2.	*	1		1300	157	19.	*	1		1915	232	51.
1		0035	8	0.	*	1		0650	83	2.	*	1		1305	158	22.	*	1		1920	233	48.
1		0040	9	0.	*	1		0655	84	2.	*	1		1310	159	29.	*	1		1925	234	45.
1		0045	10	0.	*	1		0700	85	2.	*	1		1315	160	45.	*	1		1930	235	42.
1		0050	11	0.	*	1		0705	86	3.	*	1		1320	161	73.	*	1		1935	236	39.
1		0055	12	0.	*	1		0710	87	3.	*	1		1325	162	117.	*	1		1940	237	37.
1		0100	13	0.	*	1		0715	88	3.	*	1		1330	163	174.	*	1		1945	238	36.
1		0105	14	0.	*	1		0720	89	3.	*	1		1335	164	227.	*	1		1950	239	34.
1		0110	15	0.	*	1		0725	90	3.	*	1		1340	165	279.	*	1		1955	240	33.

1	0115	16	0.	*	1	0730	91	4.	*	1	1345	166	335.	*	1	2000	241	32.
1	0120	17	0.	*	1	0735	92	4.	*	1	1350	167	395.	*	1	2005	242	31.
1	0125	18	0.	*	1	0740	93	4.	*	1	1355	168	466.	*	1	2010	243	30.
1	0130	19	0.	*	1	0745	94	4.	*	1	1400	169	552.	*	1	2015	244	30.
1	0135	20	0.	*	1	0750	95	4.	*	1	1405	170	662.	*	1	2020	245	29.
1	0140	21	0.	*	1	0755	96	5.	*	1	1410	171	802.	*	1	2025	246	28.
1	0145	22	0.	*	1	0800	97	5.	*	1	1415	172	973.	*	1	2030	247	27.
1	0150	23	0.	*	1	0805	98	5.	*	1	1420	173	1162.	*	1	2035	248	26.
1	0155	24	0.	*	1	0810	99	5.	*	1	1425	174	1349.	*	1	2040	249	25.
1	0200	25	0.	*	1	0815	100	5.	*	1	1430	175	1504.	*	1	2045	250	25.
1	0205	26	0.	*	1	0820	101	6.	*	1	1435	176	1612.	*	1	2050	251	24.
1	0210	27	0.	*	1	0825	102	6.	*	1	1440	177	1661.	*	1	2055	252	23.
1	0215	28	0.	*	1	0830	103	6.	*	1	1445	178	1661.	*	1	2100	253	23.
1	0220	29	0.	*	1	0835	104	6.	*	1	1450	179	1623.	*	1	2105	254	22.
1	0225	30	0.	*	1	0840	105	6.	*	1	1455	180	1560.	*	1	2110	255	21.
1	0230	31	0.	*	1	0845	106	7.	*	1	1500	181	1483.	*	1	2115	256	21.
1	0235	32	0.	*	1	0850	107	7.	*	1	1505	182	1404.	*	1	2120	257	20.
1	0240	33	0.	*	1	0855	108	7.	*	1	1510	183	1323.	*	1	2125	258	20.
1	0245	34	0.	*	1	0900	109	7.	*	1	1515	184	1241.	*	1	2130	259	20.
1	0250	35	0.	*	1	0905	110	8.	*	1	1520	185	1163.	*	1	2135	260	19.
1	0255	36	0.	*	1	0910	111	8.	*	1	1525	186	1093.	*	1	2140	261	19.
1	0300	37	0.	*	1	0915	112	8.	*	1	1530	187	1028.	*	1	2145	262	18.
1	0305	38	0.	*	1	0920	113	8.	*	1	1535	188	966.	*	1	2150	263	18.
1	0310	39	0.	*	1	0925	114	9.	*	1	1540	189	907.	*	1	2155	264	18.
1	0315	40	0.	*	1	0930	115	9.	*	1	1545	190	852.	*	1	2200	265	17.
1	0320	41	0.	*	1	0935	116	9.	*	1	1550	191	804.	*	1	2205	266	17.
1	0325	42	0.	*	1	0940	117	10.	*	1	1555	192	758.	*	1	2210	267	17.
1	0330	43	0.	*	1	0945	118	10.	*	1	1600	193	713.	*	1	2215	268	17.
1	0335	44	0.	*	1	0950	119	11.	*	1	1605	194	671.	*	1	2220	269	16.
1	0340	45	0.	*	1	0955	120	11.	*	1	1610	195	632.	*	1	2225	270	16.
1	0345	46	0.	*	1	1000	121	11.	*	1	1615	196	597.	*	1	2230	271	16.
1	0350	47	0.	*	1	1005	122	11.	*	1	1620	197	565.	*	1	2235	272	16.
1	0355	48	0.	*	1	1010	123	12.	*	1	1625	198	533.	*	1	2240	273	15.
1	0400	49	0.	*	1	1015	124	12.	*	1	1630	199	502.	*	1	2245	274	15.
1	0405	50	0.	*	1	1020	125	12.	*	1	1635	200	473.	*	1	2250	275	15.
1	0410	51	0.	*	1	1025	126	12.	*	1	1640	201	445.	*	1	2255	276	15.
1	0415	52	0.	*	1	1030	127	12.	*	1	1645	202	419.	*	1	2300	277	15.
1	0420	53	0.	*	1	1035	128	12.	*	1	1650	203	393.	*	1	2305	278	14.
1	0425	54	0.	*	1	1040	129	12.	*	1	1655	204	367.	*	1	2310	279	14.
1	0430	55	0.	*	1	1045	130	12.	*	1	1700	205	342.	*	1	2315	280	14.
1	0435	56	0.	*	1	1050	131	13.	*	1	1705	206	316.	*	1	2320	281	14.
1	0440	57	0.	*	1	1055	132	13.	*	1	1710	207	292.	*	1	2325	282	14.
1	0445	58	0.	*	1	1100	133	13.	*	1	1715	208	268.	*	1	2330	283	14.
1	0450	59	0.	*	1	1105	134	13.	*	1	1720	209	246.	*	1	2335	284	13.
1	0455	60	0.	*	1	1110	135	13.	*	1	1725	210	225.	*	1	2340	285	13.
1	0500	61	0.	*	1	1115	136	13.	*	1	1730	211	205.	*	1	2345	286	13.
1	0505	62	0.	*	1	1120	137	13.	*	1	1735	212	187.	*	1	2350	287	13.
1	0510	63	0.	*	1	1125	138	13.	*	1	1740	213	170.	*	1	2355	288	13.
1	0515	64	0.	*	1	1130	139	14.	*	1	1745	214	156.	*	2	0000	289	13.
1	0520	65	0.	*	1	1135	140	14.	*	1	1750	215	144.	*	2	0005	290	13.
1	0525	66	0.	*	1	1140	141	14.	*	1	1755	216	134.	*	2	0010	291	13.
1	0530	67	0.	*	1	1145	142	14.	*	1	1800	217	125.	*	2	0015	292	12.
1	0535	68	0.	*	1	1150	143	14.	*	1	1805	218	118.	*	2	0020	293	12.
1	0540	69	0.	*	1	1155	144	14.	*	1	1810	219	113.	*	2	0025	294	12.
1	0545	70	0.	*	1	1200	145	15.	*	1	1815	220	107.	*	2	0030	295	12.
1	0550	71	1.	*	1	1205	146	15.	*	1	1820	221	101.	*	2	0035	296	12.
1	0555	72	1.	*	1	1210	147	15.	*	1	1825	222	95.	*	2	0040	297	12.
1	0600	73	1.	*	1	1215	148	15.	*	1	1830	223	89.	*	2	0045	298	12.
1	0605	74	1.	*	1	1220	149	15.	*	1	1835	224	84.	*	2	0050	299	12.
1	0610	75	1.	*	1	1225	150	16.	*	1	1840	225	78.	*	2	0055	300	12.

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                                   *                    *                    *
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PEAK FLOW     TIME                                MAXIMUM AVERAGE FLOW
 (CFS)        (HR)                 6-HR          24-HR          72-HR       24.92-HR
 1661.       14.75        (CFS)     563.           149.           143.           143.
                          (INCHES)  1.322          1.395          1.395          1.395
                          (AC-FT)   279.           295.           295.           295.

                          CUMULATIVE AREA =    3.96 SQ MI


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


          **************
          *            *
548 KK    *        K3  *
          *            *
          **************
                    BASIN K3
                     THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
                     L=      4.5  Lca=      2.4   S=   48.0  Kn= .050  LAG=  85.0
                     PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN

553 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL          0.  HYDROGRAPH PLOT SCALE
                      IPNCH          0  PUNCH COMPUTED HYDROGRAPH
                       IOUT         22  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


                SUBBASIN RUNOFF DATA

554 BA          SUBBASIN CHARACTERISTICS
                      TAREA       1.65  SUBBASIN AREA

555 LG          GREEN AND AMPT LOSS RATE
                      STRTL        .16  STARTING LOSS
                        DTH        .35  MOISTURE DEFICIT
                       PSIF       3.85  WETTING FRONT SUCTION
                      XKSAT        .60  HYDRAULIC CONDUCTIVITY
                      RTIMP        .00  PERCENT IMPERVIOUS AREA

554 UI          INPUT UNITGRAPH,  50 ORDINATES,  VOLUME = 1.00
                    65.0      65.0      65.0      79.0     215.0     247.0     296.0     327.0     359.0     385.0
                   419.0     465.0     505.0     567.0     695.0     804.0     841.0     719.0     639.0     580.0
                   536.0     495.0     444.0     405.0     369.0     331.0     307.0     258.0     198.0     153.0
                   116.0     114.0     108.0     108.0      70.0      65.0      65.0      65.0      21.0      20.0
                    20.0      20.0      20.0      20.0      20.0      20.0      20.0      20.0      20.0      20.0

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HYDROGRAPH AT STATION K3
TRANSPOSITION AREA .0 SQ MI

TOTAL RAINFALL = 4.20, TOTAL LOSS = 3.21, TOTAL EXCESS = .99

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
708.	13.17	(CFS)	176.	44.	42.	42.
		(INCHES)	.990	.990	.990	.990
		(AC-FT)	87.	87.	87.	87.

CUMULATIVE AREA = 1.65 SQ MI

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

HYDROGRAPH AT STATION K3
TRANSPOSITION AREA 5.0 SQ MI

TOTAL RAINFALL = 4.12, TOTAL LOSS = 3.17, TOTAL EXCESS = .95

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
683.	13.17	(CFS)	170.	42.	41.	41.
		(INCHES)	.955	.955	.955	.955
		(AC-FT)	84.	84.	84.	84.

CUMULATIVE AREA = 1.65 SQ MI

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HYDROGRAPH AT STATION K3
TRANSPOSITION AREA 10.0 SQ MI

TOTAL RAINFALL = 3.99, TOTAL LOSS = 3.09, TOTAL EXCESS = .90

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
643.	13.17	(CFS)	159.	40.	38.	38.
		(INCHES)	.898	.898	.898	.898
		(AC-FT)	79.	79.	79.	79.

CUMULATIVE AREA = 1.65 SQ MI

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

HYDROGRAPH AT STATION K3
TRANSPOSITION AREA 50.0 SQ MI

TOTAL RAINFALL = 3.70, TOTAL LOSS = 2.93, TOTAL EXCESS = .77

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
550.	13.17	(CFS)	136.	34.	33.	33.
		(INCHES)	.768	.768	.768	.768
		(AC-FT)	68.	68.	68.	68.

CUMULATIVE AREA = 1.65 SQ MI

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

HYDROGRAPH AT STATION K3
TRANSPOSITION AREA 100.0 SQ MI

TOTAL RAINFALL = 3.57, TOTAL LOSS = 2.86, TOTAL EXCESS = .71

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
509.	13.17	(CFS)	126.	31.	30.	30.
		(INCHES)	.709	.709	.709	.709
		(AC-FT)	62.	62.	62.	62.

CUMULATIVE AREA = 1.65 SQ MI

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

HYDROGRAPH AT STATION K3
TRANSPOSITION AREA 500.0 SQ MI

TOTAL RAINFALL = 3.28, TOTAL LOSS = 2.70, TOTAL EXCESS = .58

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
414.	13.17	(CFS)	102.	26.	25.	25.
		(INCHES)	.575	.575	.575	.575
		(AC-FT)	51.	51.	51.	51.

CUMULATIVE AREA = 1.65 SQ MI

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INTERPOLATED HYDROGRAPH AT K3

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	0.	1		1230	151	358.	1		1845	226	0.
1		0005	2	0.	1		0620	77	0.	1		1235	152	391.	1		1850	227	0.
1		0010	3	0.	1		0625	78	0.	1		1240	153	429.	1		1855	228	0.
1		0015	4	0.	1		0630	79	0.	1		1245	154	482.	1		1900	229	0.
1		0020	5	0.	1		0635	80	0.	1		1250	155	548.	1		1905	230	0.
1		0025	6	0.	1		0640	81	0.	1		1255	156	615.	1		1910	231	0.
1		0030	7	0.	1		0645	82	0.	1		1300	157	658.	1		1915	232	0.
1		0035	8	0.	1		0650	83	0.	1		1305	158	683.	1		1920	233	0.
1		0040	9	0.	1		0655	84	0.	1		1310	159	688.	1		1925	234	0.
1		0045	10	0.	1		0700	85	0.	1		1315	160	664.	1		1930	235	0.
1		0050	11	0.	1		0705	86	0.	1		1320	161	615.	1		1935	236	0.
1		0055	12	0.	1		0710	87	0.	1		1325	162	550.	1		1940	237	0.
1		0100	13	0.	1		0715	88	0.	1		1330	163	500.	1		1945	238	0.
1		0105	14	0.	1		0720	89	0.	1		1335	164	456.	1		1950	239	0.
1		0110	15	0.	1		0725	90	0.	1		1340	165	416.	1		1955	240	0.
1		0115	16	0.	1		0730	91	0.	1		1345	166	379.	1		2000	241	0.
1		0120	17	0.	1		0735	92	0.	1		1350	167	341.	1		2005	242	0.

1	0125	18	0.	*	1	0740	93	0.	*	1	1355	168	302.	*	1	2010	243	0.
1	0130	19	0.	*	1	0745	94	0.	*	1	1400	169	262.	*	1	2015	244	0.
1	0135	20	0.	*	1	0750	95	0.	*	1	1405	170	222.	*	1	2020	245	0.
1	0140	21	0.	*	1	0755	96	0.	*	1	1410	171	186.	*	1	2025	246	0.
1	0145	22	0.	*	1	0800	97	0.	*	1	1415	172	154.	*	1	2030	247	0.
1	0150	23	0.	*	1	0805	98	0.	*	1	1420	173	129.	*	1	2035	248	0.
1	0155	24	0.	*	1	0810	99	0.	*	1	1425	174	108.	*	1	2040	249	0.
1	0200	25	0.	*	1	0815	100	0.	*	1	1430	175	94.	*	1	2045	250	0.
1	0205	26	0.	*	1	0820	101	0.	*	1	1435	176	86.	*	1	2050	251	0.
1	0210	27	0.	*	1	0825	102	0.	*	1	1440	177	78.	*	1	2055	252	0.
1	0215	28	0.	*	1	0830	103	0.	*	1	1445	178	64.	*	1	2100	253	0.
1	0220	29	0.	*	1	0835	104	0.	*	1	1450	179	50.	*	1	2105	254	0.
1	0225	30	0.	*	1	0840	105	0.	*	1	1455	180	42.	*	1	2110	255	0.
1	0230	31	0.	*	1	0845	106	0.	*	1	1500	181	34.	*	1	2115	256	0.
1	0235	32	0.	*	1	0850	107	0.	*	1	1505	182	27.	*	1	2120	257	0.
1	0240	33	0.	*	1	0855	108	0.	*	1	1510	183	19.	*	1	2125	258	0.
1	0245	34	0.	*	1	0900	109	0.	*	1	1515	184	19.	*	1	2130	259	0.
1	0250	35	0.	*	1	0905	110	0.	*	1	1520	185	19.	*	1	2135	260	0.
1	0255	36	0.	*	1	0910	111	0.	*	1	1525	186	19.	*	1	2140	261	0.
1	0300	37	0.	*	1	0915	112	0.	*	1	1530	187	19.	*	1	2145	262	0.
1	0305	38	0.	*	1	0920	113	0.	*	1	1535	188	19.	*	1	2150	263	0.
1	0310	39	0.	*	1	0925	114	0.	*	1	1540	189	19.	*	1	2155	264	0.
1	0315	40	0.	*	1	0930	115	0.	*	1	1545	190	16.	*	1	2200	265	0.
1	0320	41	0.	*	1	0935	116	0.	*	1	1550	191	13.	*	1	2205	266	0.
1	0325	42	0.	*	1	0940	117	0.	*	1	1555	192	10.	*	1	2210	267	0.
1	0330	43	0.	*	1	0945	118	0.	*	1	1600	193	7.	*	1	2215	268	0.
1	0335	44	0.	*	1	0950	119	0.	*	1	1605	194	3.	*	1	2220	269	0.
1	0340	45	0.	*	1	0955	120	0.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	0.	*	1	1000	121	0.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	0.	*	1	1005	122	0.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	0.	*	1	1010	123	0.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	0.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	0.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	0.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	0.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	0.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	0.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	0.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	0.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	0.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	0.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	0.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	0.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	0.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	0.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	0.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	0.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	0.	*	1	1135	140	10.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	0.	*	1	1140	141	20.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	0.	*	1	1145	142	30.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	0.	*	1	1150	143	43.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	0.	*	1	1155	144	76.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	0.	*	1	1200	145	115.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	0.	*	1	1205	146	151.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	0.	*	1	1210	147	193.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	0.	*	1	1215	148	240.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	0.	*	1	1220	149	290.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	0.	*	1	1225	150	323.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
688.	13.17	(CFS)	171.	43.	41.	41.
		(INCHES)	.961	.961	.961	.961
		(AC-FT)	85.	85.	85.	85.

CUMULATIVE AREA = 1.65 SQ MI

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          **************
          *            *
563 KK    *        E5  *
          *            *
          **************
                    BASIN E5
                     THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
                     L=      2.9  Lca=      1.6   S=   26.0  Kn= .050  LAG=  69.0
                     PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN

568 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL          0.  HYDROGRAPH PLOT SCALE
                      IPNCH          0  PUNCH COMPUTED HYDROGRAPH
                       IOUT         22  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


                SUBBASIN RUNOFF DATA

569 BA          SUBBASIN CHARACTERISTICS
                      TAREA       1.36  SUBBASIN AREA

570 LG          GREEN AND AMPT LOSS RATE
                      STRTL        .18  STARTING LOSS
                        DTH        .34  MOISTURE DEFICIT
                       PSIF       4.30  WETTING FRONT SUCTION
                      XKSAT        .43  HYDRAULIC CONDUCTIVITY
                      RTIMP        .00  PERCENT IMPERVIOUS AREA

569 UI          INPUT UNITGRAPH,  41 ORDINATES,  VOLUME = 1.00
                    66.0     66.0     66.0    191.0    250.0    311.0    346.0    381.0    422.0    479.0
                   531.0    644.0    814.0    831.0    696.0    608.0    547.0    497.0    436.0    391.0
                   341.0    311.0    245.0    187.0    117.0    115.0    109.0     95.0     66.0     66.0
                    60.0     20.0     20.0     20.0     20.0     20.0     20.0     20.0     20.0     20.0
                    20.0
                                                          ***
     ***            ***             ***             ***             ***

                       HYDROGRAPH AT STATION       E5
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TRANSPOSITION AREA .0 SQ MI

TOTAL RAINFALL = 4.20, TOTAL LOSS = 3.07, TOTAL EXCESS = 1.13

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
779.	12.92	(CFS)	164.	41.	40.	40.
		(INCHES)	1.122	1.122	1.122	1.122
		(AC-FT)	81.	81.	81.	81.

CUMULATIVE AREA = 1.36 SQ MI

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

HYDROGRAPH AT STATION E5
TRANSPOSITION AREA 5.0 SQ MI

TOTAL RAINFALL = 4.12, TOTAL LOSS = 3.03, TOTAL EXCESS = 1.09

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
755.	12.92	(CFS)	159.	40.	38.	38.
		(INCHES)	1.087	1.087	1.087	1.087
		(AC-FT)	79.	79.	79.	79.

CUMULATIVE AREA = 1.36 SQ MI

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

HYDROGRAPH AT STATION E5
TRANSPOSITION AREA 10.0 SQ MI

TOTAL RAINFALL = 3.99, TOTAL LOSS = 2.95, TOTAL EXCESS = 1.04

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
716.	12.92	(CFS)	151.	38.	36.	36.
		(INCHES)	1.031	1.031	1.031	1.031
		(AC-FT)	75.	75.	75.	75.

CUMULATIVE AREA = 1.36 SQ MI

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

HYDROGRAPH AT STATION E5
TRANSPOSITION AREA 50.0 SQ MI

TOTAL RAINFALL = 3.70, TOTAL LOSS = 2.79, TOTAL EXCESS = .91

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
629.	12.92	(CFS)	132.	33.	32.	32.
		(INCHES)	.903	.903	.903	.903
		(AC-FT)	66.	66.	66.	66.

CUMULATIVE AREA = 1.36 SQ MI

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

HYDROGRAPH AT STATION E5
TRANSPOSITION AREA 100.0 SQ MI

TOTAL RAINFALL = 3.57, TOTAL LOSS = 2.72, TOTAL EXCESS = .85

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
589.	12.92	(CFS)	124.	31.	30.	30.
		(INCHES)	.846	.846	.846	.846
		(AC-FT)	61.	61.	61.	61.

CUMULATIVE AREA = 1.36 SQ MI

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

HYDROGRAPH AT STATION E5
TRANSPOSITION AREA 500.0 SQ MI

TOTAL RAINFALL = 3.28, TOTAL LOSS = 2.56, TOTAL EXCESS = .72

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
499.	12.92	(CFS)	105.	26.	25.	25.
		(INCHES)	.715	.715	.715	.715
		(AC-FT)	52.	52.	52.	52.

CUMULATIVE AREA = 1.36 SQ MI

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INTERPOLATED HYDROGRAPH AT E5

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	0.	1		1230	151	511.	1		1845	226	0.
1		0005	2	0.	1		0620	77	0.	1		1235	152	595.	1		1850	227	0.
1		0010	3	0.	1		0625	78	0.	1		1240	153	677.	1		1855	228	0.
1		0015	4	0.	1		0630	79	0.	1		1245	154	729.	1		1900	229	0.
1		0020	5	0.	1		0635	80	0.	1		1250	155	755.	1		1905	230	0.
1		0025	6	0.	1		0640	81	0.	1		1255	156	760.	1		1910	231	0.
1		0030	7	0.	1		0645	82	0.	1		1300	157	735.	1		1915	232	0.
1		0035	8	0.	1		0650	83	0.	1		1305	158	666.	1		1920	233	0.
1		0040	9	0.	1		0655	84	0.	1		1310	159	585.	1		1925	234	0.
1		0045	10	0.	1		0700	85	0.	1		1315	160	519.	1		1930	235	0.
1		0050	11	0.	1		0705	86	0.	1		1320	161	465.	1		1935	236	0.
1		0055	12	0.	1		0710	87	0.	1		1325	162	409.	1		1940	237	0.
1		0100	13	0.	1		0715	88	0.	1		1330	163	353.	1		1945	238	0.
1		0105	14	0.	1		0720	89	0.	1		1335	164	294.	1		1950	239	0.
1		0110	15	0.	1		0725	90	0.	1		1340	165	244.	1		1955	240	0.
1		0115	16	0.	1		0730	91	0.	1		1345	166	201.	1		2000	241	0.
1		0120	17	0.	1		0735	92	0.	1		1350	167	160.	1		2005	242	0.
1		0125	18	0.	1		0740	93	0.	1		1355	168	127.	1		2010	243	0.
1		0130	19	0.	1		0745	94	0.	1		1400	169	105.	1		2015	244	0.

1	0135	20	0.	*	1	0750	95	0.	*	1	1405	170	94.	*	1	2020	245	0.
1	0140	21	0.	*	1	0755	96	0.	*	1	1410	171	77.	*	1	2025	246	0.
1	0145	22	0.	*	1	0800	97	0.	*	1	1415	172	61.	*	1	2030	247	0.
1	0150	23	0.	*	1	0805	98	0.	*	1	1420	173	47.	*	1	2035	248	0.
1	0155	24	0.	*	1	0810	99	0.	*	1	1425	174	38.	*	1	2040	249	0.
1	0200	25	0.	*	1	0815	100	0.	*	1	1430	175	30.	*	1	2045	250	0.
1	0205	26	0.	*	1	0820	101	0.	*	1	1435	176	22.	*	1	2050	251	0.
1	0210	27	0.	*	1	0825	102	0.	*	1	1440	177	22.	*	1	2055	252	0.
1	0215	28	0.	*	1	0830	103	0.	*	1	1445	178	22.	*	1	2100	253	0.
1	0220	29	0.	*	1	0835	104	0.	*	1	1450	179	22.	*	1	2105	254	0.
1	0225	30	0.	*	1	0840	105	0.	*	1	1455	180	22.	*	1	2110	255	0.
1	0230	31	0.	*	1	0845	106	0.	*	1	1500	181	18.	*	1	2115	256	0.
1	0235	32	0.	*	1	0850	107	0.	*	1	1505	182	15.	*	1	2120	257	0.
1	0240	33	0.	*	1	0855	108	0.	*	1	1510	183	11.	*	1	2125	258	0.
1	0245	34	0.	*	1	0900	109	0.	*	1	1515	184	8.	*	1	2130	259	0.
1	0250	35	0.	*	1	0905	110	0.	*	1	1520	185	4.	*	1	2135	260	0.
1	0255	36	0.	*	1	0910	111	0.	*	1	1525	186	0.	*	1	2140	261	0.
1	0300	37	0.	*	1	0915	112	0.	*	1	1530	187	0.	*	1	2145	262	0.
1	0305	38	0.	*	1	0920	113	0.	*	1	1535	188	0.	*	1	2150	263	0.
1	0310	39	0.	*	1	0925	114	0.	*	1	1540	189	0.	*	1	2155	264	0.
1	0315	40	0.	*	1	0930	115	0.	*	1	1545	190	0.	*	1	2200	265	0.
1	0320	41	0.	*	1	0935	116	0.	*	1	1550	191	0.	*	1	2205	266	0.
1	0325	42	0.	*	1	0940	117	0.	*	1	1555	192	0.	*	1	2210	267	0.
1	0330	43	0.	*	1	0945	118	0.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	0.	*	1	0950	119	0.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	0.	*	1	0955	120	0.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	0.	*	1	1000	121	0.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	0.	*	1	1005	122	0.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	0.	*	1	1010	123	0.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	0.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	0.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	0.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	0.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	0.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	0.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	0.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	0.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	0.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	0.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	0.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	0.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	0.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	0.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	0.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	0.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	0.	*	1	1135	140	12.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	0.	*	1	1140	141	23.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	0.	*	1	1145	142	35.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	0.	*	1	1150	143	70.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	0.	*	1	1155	144	115.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	0.	*	1	1200	145	171.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	0.	*	1	1205	146	222.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	0.	*	1	1210	147	280.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	0.	*	1	1215	148	346.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	0.	*	1	1220	149	399.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	0.	*	1	1225	150	450.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW TIME MAXIMUM AVERAGE FLOW

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
760.	12.92	(CFS)	160.	40.	39.	39.
		(INCHES)	1.094	1.094	1.094	1.094
		(AC-FT)	79.	79.	79.	79.

CUMULATIVE AREA = 1.36 SQ MI

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          **************
          *            *
577 KK    *        4E  *
          *            *
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Combining E1+E2+E3+E4+F1+F2+F3+F4+H1+H2 & J1 & K1+K2 & E5 & J2 & K3

579 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

580 HC HYDROGRAPH COMBINATION

ICOMP	6	NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 4E
TRANSPOSITION AREA .0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
8740.	14.25	(CFS)	3609.	952.	917.	917.
		(INCHES)	1.137	1.201	1.201	1.201
		(AC-FT)	1790.	1889.	1889.	1889.

CUMULATIVE AREA = 29.50 SQ MI

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HYDROGRAPH AT STATION 4E
TRANSPOSITION AREA 5.0 SQ MI

K FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
8420.	14.25	(CFS)	3494.	923.	889.	889.
		(INCHES)	1.101	1.163	1.163	1.163
		(AC-FT)	1733.	1831.	1831.	1831.

CUMULATIVE AREA = 29.50 SQ MI

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HYDROGRAPH AT STATION 4E
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
7927.	14.33	(CFS)	3308.	875.	843.	843.
		(INCHES)	1.043	1.104	1.104	1.104
		(AC-FT)	1641.	1736.	1736.	1736.

CUMULATIVE AREA = 29.50 SQ MI

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HYDROGRAPH AT STATION 4E
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
6859.	14.33	(CFS)	2894.	769.	741.	741.
		(INCHES)	.912	.970	.970	.970
		(AC-FT)	1435.	1526.	1526.	1526.

CUMULATIVE AREA = 29.50 SQ MI

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HYDROGRAPH AT STATION 4E
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
6390.	14.42	(CFS)	2708.	722.	695.	695.
		(INCHES)	.854	.910	.910	.910
		(AC-FT)	1343.	1431.	1431.	1431.

CUMULATIVE AREA = 29.50 SQ MI

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HYDROGRAPH AT STATION 4E
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
5340.	14.42	(CFS)	2294.	615.	593.	593.
		(INCHES)	.723	.775	.775	.775
		(AC-FT)	1137.	1220.	1220.	1220.

CUMULATIVE AREA = 29.50 SQ MI

INTERPOLATED HYDROGRAPH AT 4E

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	1.	1		1230	151	1293.	1		1845	226	305.
1		0005	2	0.	1		0620	77	1.	1		1235	152	1447.	1		1850	227	292.
1		0010	3	0.	1		0625	78	1.	1		1240	153	1619.	1		1855	228	279.
1		0015	4	0.	1		0630	79	1.	1		1245	154	1811.	1		1900	229	267.
1		0020	5	0.	1		0635	80	2.	1		1250	155	2040.	1		1905	230	255.
1		0025	6	0.	1		0640	81	2.	1		1255	156	2307.	1		1910	231	244.
1		0030	7	0.	1		0645	82	2.	1		1300	157	2567.	1		1915	232	234.
1		0035	8	0.	1		0650	83	2.	1		1305	158	2782.	1		1920	233	224.
1		0040	9	0.	1		0655	84	2.	1		1310	159	2987.	1		1925	234	215.
1		0045	10	0.	1		0700	85	2.	1		1315	160	3182.	1		1930	235	207.
1		0050	11	0.	1		0705	86	3.	1		1320	161	3396.	1		1935	236	199.
1		0055	12	0.	1		0710	87	3.	1		1325	162	3660.	1		1940	237	192.
1		0100	13	0.	1		0715	88	3.	1		1330	163	4004.	1		1945	238	185.
1		0105	14	0.	1		0720	89	3.	1		1335	164	4398.	1		1950	239	180.
1		0110	15	0.	1		0725	90	4.	1		1340	165	4820.	1		1955	240	174.
1		0115	16	0.	1		0730	91	4.	1		1345	166	5271.	1		2000	241	169.
1		0120	17	0.	1		0735	92	4.	1		1350	167	5710.	1		2005	242	163.
1		0125	18	0.	1		0740	93	4.	1		1355	168	6138.	1		2010	243	157.
1		0130	19	0.	1		0745	94	5.	1		1400	169	6511.	1		2015	244	152.
1		0135	20	0.	1		0750	95	5.	1		1405	170	6815.	1		2020	245	146.
1		0140	21	0.	1		0755	96	5.	1		1410	171	7039.	1		2025	246	141.
1		0145	22	0.	1		0800	97	6.	1		1415	172	7167.	1		2030	247	135.
1		0150	23	0.	1		0805	98	6.	1		1420	173	7209.	1		2035	248	130.
1		0155	24	0.	1		0810	99	6.	1		1425	174	7172.	1		2040	249	125.
1		0200	25	0.	1		0815	100	7.	1		1430	175	7051.	1		2045	250	121.
1		0205	26	0.	1		0820	101	7.	1		1435	176	6867.	1		2050	251	116.
1		0210	27	0.	1		0825	102	7.	1		1440	177	6620.	1		2055	252	112.
1		0215	28	0.	1		0830	103	8.	1		1445	178	6310.	1		2100	253	108.
1		0220	29	0.	1		0835	104	8.	1		1450	179	5963.	1		2105	254	105.
1		0225	30	0.	1		0840	105	8.	1		1455	180	5609.	1		2110	255	101.
1		0230	31	0.	1		0845	106	9.	1		1500	181	5255.	1		2115	256	98.
1		0235	32	0.	1		0850	107	9.	1		1505	182	4903.	1		2120	257	95.
1		0240	33	0.	1		0855	108	10.	1		1510	183	4552.	1		2125	258	92.
1		0245	34	0.	1		0900	109	10.	1		1515	184	4229.	1		2130	259	90.
1		0250	35	0.	1		0905	110	10.	1		1520	185	3935.	1		2135	260	87.
1		0255	36	0.	1		0910	111	11.	1		1525	186	3649.	1		2140	261	85.
1		0300	37	0.	1		0915	112	11.	1		1530	187	3396.	1		2145	262	83.
1		0305	38	0.	1		0920	113	12.	1		1535	188	3195.	1		2150	263	81.
1		0310	39	0.	1		0925	114	12.	1		1540	189	3032.	1		2155	264	79.
1		0315	40	0.	1		0930	115	12.	1		1545	190	2878.	1		2200	265	77.
1		0320	41	0.	1		0935	116	13.	1		1550	191	2754.	1		2205	266	75.
1		0325	42	0.	1		0940	117	13.	1		1555	192	2647.	1		2210	267	74.
1		0330	43	0.	1		0945	118	14.	1		1600	193	2513.	1		2215	268	73.
1		0335	44	0.	1		0950	119	14.	1		1605	194	2367.	1		2220	269	71.
1		0340	45	0.	1		0955	120	15.	1		1610	195	2218.	1		2225	270	70.
1		0345	46	0.	1		1000	121	16.	1		1615	196	2071.	1		2230	271	69.
1		0350	47	0.	1		1005	122	16.	1		1620	197	1926.	1		2235	272	68.
1		0355	48	0.	1		1010	123	17.	1		1625	198	1781.	1		2240	273	67.
1		0400	49	0.	1		1015	124	17.	1		1630	199	1642.	1		2245	274	66.
1		0405	50	0.	1		1020	125	18.	1		1635	200	1506.	1		2250	275	65.
1		0410	51	0.	1		1025	126	18.	1		1640	201	1381.	1		2255	276	65.
1		0415	52	0.	1		1030	127	19.	1		1645	202	1261.	1		2300	277	64.

1	0420	53	0.	*	1	1035	128	20.	*	1	1650	203	1155.	*	1	2305	278	64.
1	0425	54	0.	*	1	1040	129	20.	*	1	1655	204	1064.	*	1	2310	279	63.
1	0430	55	0.	*	1	1045	130	21.	*	1	1700	205	982.	*	1	2315	280	63.
1	0435	56	0.	*	1	1050	131	22.	*	1	1705	206	912.	*	1	2320	281	63.
1	0440	57	0.	*	1	1055	132	22.	*	1	1710	207	848.	*	1	2325	282	63.
1	0445	58	0.	*	1	1100	133	23.	*	1	1715	208	790.	*	1	2330	283	62.
1	0450	59	0.	*	1	1105	134	23.	*	1	1720	209	737.	*	1	2335	284	62.
1	0455	60	0.	*	1	1110	135	24.	*	1	1725	210	690.	*	1	2340	285	62.
1	0500	61	0.	*	1	1115	136	24.	*	1	1730	211	648.	*	1	2345	286	61.
1	0505	62	0.	*	1	1120	137	25.	*	1	1735	212	612.	*	1	2350	287	61.
1	0510	63	0.	*	1	1125	138	25.	*	1	1740	213	580.	*	1	2355	288	60.
1	0515	64	0.	*	1	1130	139	25.	*	1	1745	214	551.	*	2	0000	289	60.
1	0520	65	0.	*	1	1135	140	60.	*	1	1750	215	523.	*	2	0005	290	60.
1	0525	66	0.	*	1	1140	141	96.	*	1	1755	216	498.	*	2	0010	291	59.
1	0530	67	0.	*	1	1145	142	133.	*	1	1800	217	474.	*	2	0015	292	59.
1	0535	68	0.	*	1	1150	143	191.	*	1	1805	218	451.	*	2	0020	293	58.
1	0540	69	0.	*	1	1155	144	288.	*	1	1810	219	429.	*	2	0025	294	58.
1	0545	70	0.	*	1	1200	145	426.	*	1	1815	220	407.	*	2	0030	295	57.
1	0550	71	1.	*	1	1205	146	548.	*	1	1820	221	387.	*	2	0035	296	57.
1	0555	72	1.	*	1	1210	147	691.	*	1	1825	222	369.	*	2	0040	297	56.
1	0600	73	1.	*	1	1215	148	856.	*	1	1830	223	351.	*	2	0045	298	56.
1	0605	74	1.	*	1	1220	149	1020.	*	1	1835	224	335.	*	2	0050	299	55.
1	0610	75	1.	*	1	1225	150	1162.	*	1	1840	225	320.	*	2	0055	300	55.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
7209.	14.33	(CFS)	3030.	804.	775.	775.
		(INCHES)	.955	1.014	1.014	1.014
		(AC-FT)	1503.	1595.	1595.	1595.

CUMULATIVE AREA = 29.50 SQ MI

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          *            *
581 KK    *     4E-5E  *       Routing thru E6
          *            *
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582 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

HYDROGRAPH ROUTING DATA

583 RS STORAGE ROUTING

	NSTPS	4	NUMBER OF SUBREACHES
	ITYP	FLOW	TYPE OF INITIAL CONDITION
	RSVRIC	.00	INITIAL CONDITION
	X	.00	WORKING R AND D COEFFICIENT

584 RC NORMAL DEPTH CHANNEL

ANL	.063	LEFT OVERBANK N-VALUE
ANCH	.051	MAIN CHANNEL N-VALUE
ANR	.063	RIGHT OVERBANK N-VALUE
RLNTH	5000.	REACH LENGTH
SEL	.0060	ENERGY SLOPE
ELMAX	.0	MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

CROSS-SECTION DATA

		--- LEFT OVERBANK ---		+ ------ MAIN CHANNEL -------			+ --- RIGHT OVERBANK ---		
586 RY	ELEVATION	17.00	13.00	13.00	10.00	10.00	12.00	12.00	17.00
585 RX	DISTANCE	.00	150.00	280.00	290.00	330.00	340.00	530.00	680.00

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COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	1.76	3.64	5.66	7.80	10.08	17.14	28.13	39.64	56.57
OUTFLOW	.00	17.35	55.82	111.30	182.50	268.90	400.31	639.65	961.82	1401.88
ELEVATION	10.00	10.37	10.74	11.11	11.47	11.84	12.21	12.58	12.95	13.32
STORAGE	75.34	95.15	116.02	137.94	160.91	184.94	210.01	236.14	263.32	291.55
OUTFLOW	1974.43	2663.35	3464.36	4376.01	5398.16	6531.45	7776.99	9136.24	10610.84	12202.62
ELEVATION	13.68	14.05	14.42	14.79	15.16	15.53	15.89	16.26	16.63	17.00

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HYDROGRAPH AT STATION 4E-5E
TRANSPOSITION AREA .0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
8647.	14.50	(CFS)	3598.	950.	915.	915.
		(INCHES)	1.134	1.198	1.198	1.198
		(AC-FT)	1784.	1885.	1885.	1885.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
57.	14.50	28.	8.	7.	7.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
16.13	14.50	14.22	11.47	11.42	11.42

CUMULATIVE AREA = 29.50 SQ MI

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HYDROGRAPH AT STATION 4E-5E
TRANSPOSITION AREA 5.0 SQ MI

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

8333.	14.50	(CFS)	3483.	921.	887.	887.
		(INCHES)	1.098	1.161	1.161	1.161
		(AC-FT)	1727.	1827.	1827.	1827.

STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
55.	14.50	27.	7.	7.	7.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
16.05	14.50	14.18	11.46	11.41	11.41

CUMULATIVE AREA = 29.50 SQ MI

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HYDROGRAPH AT STATION 4E-5E
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
7832.	14.58	(CFS)	3298.	874.	841.	841.
		(INCHES)	1.039	1.101	1.101	1.101
		(AC-FT)	1635.	1733.	1733.	1733.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
53.	14.58	26.	7.	7.	7.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
15.91	14.58	14.11	11.43	11.38	11.38

CUMULATIVE AREA = 29.50 SQ MI

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HYDROGRAPH AT STATION 4E-5E
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
6773.	14.58	(CFS)	2885.	768.	739.	739.
		(INCHES)	.909	.968	.968	.968
		(AC-FT)	1431.	1523.	1523.	1523.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
47.	14.58	24.	6.	6.	6.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
15.60	14.58	13.94	11.38	11.33	11.33

CUMULATIVE AREA = 29.50 SQ MI

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HYDROGRAPH AT STATION 4E-5E
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
6308.	14.67	(CFS)	2699.	720.	693.	693.
		(INCHES)	.851	.908	.908	.908
		(AC-FT)	1338.	1428.	1428.	1428.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
45.	14.67	22.	6.	6.	6.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
15.45	14.67	13.86	11.35	11.30	11.30

CUMULATIVE AREA = 29.50 SQ MI

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HYDROGRAPH AT STATION 4E-5E
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
5251.	14.75	(CFS)	2286.	613.	591.	591.
		(INCHES)	.720	.773	.773	.773
		(AC-FT)	1133.	1217.	1217.	1217.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
39.	14.75	20.	5.	5.	5.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
15.10	14.75	13.66	11.28	11.24	11.24

CUMULATIVE AREA = 29.50 SQ MI

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INTERPOLATED HYDROGRAPH AT 4E-5E

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	0.	*	1		1230	151	455.	*	1		1845	226	429.
1		0005	2	0.	*	1		0620	77	0.	*	1		1235	152	584.	*	1		1850	227	410.
1		0010	3	0.	*	1		0625	78	0.	*	1		1240	153	748.	*	1		1855	228	394.
1		0015	4	0.	*	1		0630	79	0.	*	1		1245	154	920.	*	1		1900	229	379.
1		0020	5	0.	*	1		0635	80	0.	*	1		1250	155	1080.	*	1		1905	230	364.
1		0025	6	0.	*	1		0640	81	0.	*	1		1255	156	1247.	*	1		1910	231	349.
1		0030	7	0.	*	1		0645	82	0.	*	1		1300	157	1444.	*	1		1915	232	335.
1		0035	8	0.	*	1		0650	83	1.	*	1		1305	158	1676.	*	1		1920	233	320.
1		0040	9	0.	*	1		0655	84	1.	*	1		1310	159	1934.	*	1		1925	234	305.

1	0045	10	0.	*	1	0700	85	1.	*	1	1315	160	2203.	*	1	1930	235	287.
1	0050	11	0.	*	1	0705	86	1.	*	1	1320	161	2476.	*	1	1935	236	264.
1	0055	12	0.	*	1	0710	87	1.	*	1	1325	162	2735.	*	1	1940	237	239.
1	0100	13	0.	*	1	0715	88	1.	*	1	1330	163	2991.	*	1	1945	238	220.
1	0105	14	0.	*	1	0720	89	1.	*	1	1335	164	3256.	*	1	1950	239	209.
1	0110	15	0.	*	1	0725	90	1.	*	1	1340	165	3546.	*	1	1955	240	200.
1	0115	16	0.	*	1	0730	91	1.	*	1	1345	166	3885.	*	1	2000	241	192.
1	0120	17	0.	*	1	0735	92	1.	*	1	1350	167	4278.	*	1	2005	242	186.
1	0125	18	0.	*	1	0740	93	2.	*	1	1355	168	4700.	*	1	2010	243	181.
1	0130	19	0.	*	1	0745	94	2.	*	1	1400	169	5160.	*	1	2015	244	176.
1	0135	20	0.	*	1	0750	95	2.	*	1	1405	170	5608.	*	1	2020	245	170.
1	0140	21	0.	*	1	0755	96	2.	*	1	1410	171	6040.	*	1	2025	246	165.
1	0145	22	0.	*	1	0800	97	2.	*	1	1415	172	6418.	*	1	2030	247	159.
1	0150	23	0.	*	1	0805	98	2.	*	1	1420	173	6718.	*	1	2035	248	154.
1	0155	24	0.	*	1	0810	99	3.	*	1	1425	174	6939.	*	1	2040	249	148.
1	0200	25	0.	*	1	0815	100	3.	*	1	1430	175	7077.	*	1	2045	250	143.
1	0205	26	0.	*	1	0820	101	3.	*	1	1435	176	7120.	*	1	2050	251	138.
1	0210	27	0.	*	1	0825	102	3.	*	1	1440	177	7079.	*	1	2055	252	133.
1	0215	28	0.	*	1	0830	103	3.	*	1	1445	178	6965.	*	1	2100	253	128.
1	0220	29	0.	*	1	0835	104	4.	*	1	1450	179	6787.	*	1	2105	254	123.
1	0225	30	0.	*	1	0840	105	4.	*	1	1455	180	6553.	*	1	2110	255	119.
1	0230	31	0.	*	1	0845	106	4.	*	1	1500	181	6270.	*	1	2115	256	115.
1	0235	32	0.	*	1	0850	107	4.	*	1	1505	182	5957.	*	1	2120	257	111.
1	0240	33	0.	*	1	0855	108	5.	*	1	1510	183	5631.	*	1	2125	258	108.
1	0245	34	0.	*	1	0900	109	5.	*	1	1515	184	5305.	*	1	2130	259	105.
1	0250	35	0.	*	1	0905	110	5.	*	1	1520	185	4978.	*	1	2135	260	102.
1	0255	36	0.	*	1	0910	111	6.	*	1	1525	186	4659.	*	1	2140	261	99.
1	0300	37	0.	*	1	0915	112	6.	*	1	1530	187	4357.	*	1	2145	262	96.
1	0305	38	0.	*	1	0920	113	6.	*	1	1535	188	4076.	*	1	2150	263	94.
1	0310	39	0.	*	1	0925	114	7.	*	1	1540	189	3812.	*	1	2155	264	91.
1	0315	40	0.	*	1	0930	115	7.	*	1	1545	190	3573.	*	1	2200	265	88.
1	0320	41	0.	*	1	0935	116	7.	*	1	1550	191	3371.	*	1	2205	266	86.
1	0325	42	0.	*	1	0940	117	8.	*	1	1555	192	3188.	*	1	2210	267	84.
1	0330	43	0.	*	1	0945	118	8.	*	1	1600	193	3028.	*	1	2215	268	82.
1	0335	44	0.	*	1	0950	119	8.	*	1	1605	194	2884.	*	1	2220	269	80.
1	0340	45	0.	*	1	0955	120	9.	*	1	1610	195	2753.	*	1	2225	270	78.
1	0345	46	0.	*	1	1000	121	9.	*	1	1615	196	2628.	*	1	2230	271	76.
1	0350	47	0.	*	1	1005	122	9.	*	1	1620	197	2500.	*	1	2235	272	75.
1	0355	48	0.	*	1	1010	123	10.	*	1	1625	198	2371.	*	1	2240	273	73.
1	0400	49	0.	*	1	1015	124	10.	*	1	1630	199	2236.	*	1	2245	274	72.
1	0405	50	0.	*	1	1020	125	11.	*	1	1635	200	2101.	*	1	2250	275	71.
1	0410	51	0.	*	1	1025	126	11.	*	1	1640	201	1974.	*	1	2255	276	70.
1	0415	52	0.	*	1	1030	127	12.	*	1	1645	202	1854.	*	1	2300	277	68.
1	0420	53	0.	*	1	1035	128	12.	*	1	1650	203	1733.	*	1	2305	278	68.
1	0425	54	0.	*	1	1040	129	13.	*	1	1655	204	1612.	*	1	2310	279	67.
1	0430	55	0.	*	1	1045	130	13.	*	1	1700	205	1497.	*	1	2315	280	66.
1	0435	56	0.	*	1	1050	131	14.	*	1	1705	206	1396.	*	1	2320	281	65.
1	0440	57	0.	*	1	1055	132	14.	*	1	1710	207	1306.	*	1	2325	282	65.
1	0445	58	0.	*	1	1100	133	15.	*	1	1715	208	1220.	*	1	2330	283	64.
1	0450	59	0.	*	1	1105	134	16.	*	1	1720	209	1134.	*	1	2335	284	64.
1	0455	60	0.	*	1	1110	135	17.	*	1	1725	210	1052.	*	1	2340	285	63.
1	0500	61	0.	*	1	1115	136	18.	*	1	1730	211	974.	*	1	2345	286	63.
1	0505	62	0.	*	1	1120	137	18.	*	1	1735	212	898.	*	1	2350	287	63.
1	0510	63	0.	*	1	1125	138	19.	*	1	1740	213	831.	*	1	2355	288	62.
1	0515	64	0.	*	1	1130	139	21.	*	1	1745	214	772.	*	2	0000	289	62.
1	0520	65	0.	*	1	1135	140	22.	*	1	1750	215	722.	*	2	0005	290	62.
1	0525	66	0.	*	1	1140	141	23.	*	1	1755	216	680.	*	2	0010	291	61.
1	0530	67	0.	*	1	1145	142	26.	*	1	1800	217	646.	*	2	0015	292	61.
1	0535	68	0.	*	1	1150	143	32.	*	1	1805	218	619.	*	2	0020	293	60.
1	0540	69	0.	*	1	1155	144	45.	*	1	1810	219	595.	*	2	0025	294	60.

1	0545	70	0.	*	1	1200	145	73.	*	1	1815	220	569.	*	2	0030	295	60.
1	0550	71	0.	*	1	1205	146	125.	*	1	1820	221	544.	*	2	0035	296	59.
1	0555	72	0.	*	1	1210	147	197.	*	1	1825	222	519.	*	2	0040	297	59.
1	0600	73	0.	*	1	1215	148	264.	*	1	1830	223	495.	*	2	0045	298	58.
1	0605	74	0.	*	1	1220	149	304.	*	1	1835	224	472.	*	2	0050	299	58.
1	0610	75	0.	*	1	1225	150	363.	*	1	1840	225	449.	*	2	0055	300	57.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
7120.	14.58	(CFS)	3020.	802.	773.	773.
		(INCHES)	.952	1.012	1.012	1.012
		(AC-FT)	1498.	1591.	1591.	1591.

CUMULATIVE AREA = 29.50 SQ MI

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          *            *
587 KK    *        E6  *
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BASIN E6

THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN

L= .5 Lca= .5 S= 34.0 Kn= .050 LAG= 22.0

PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN

592 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

SUBBASIN RUNOFF DATA

593 BA SUBBASIN CHARACTERISTICS

TAREA	.21	SUBBASIN AREA

594 LG GREEN AND AMPT LOSS RATE

STRTL	.17	STARTING LOSS
DTH	.34	MOISTURE DEFICIT
PSIF	3.92	WETTING FRONT SUCTION
XKSAT	.35	HYDRAULIC CONDUCTIVITY
RTIMP	.00	PERCENT IMPERVIOUS AREA

593 UI INPUT UNITGRAPH, 13 ORDINATES, VOLUME = 1.01

33.0	131.0	196.0	297.0	368.0	250.0	174.0	90.0	51.0	29.0
10.0	10.0	10.0							

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HYDROGRAPH AT STATION E6
TRANSPOSITION AREA .0 SQ MI

TOTAL RAINFALL = 4.20, TOTAL LOSS = 2.97, TOTAL EXCESS = 1.23

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
289.	12.08	(CFS)	28.	7.	7.	7.
		(INCHES)	1.244	1.244	1.244	1.244
		(AC-FT)	14.	14.	14.	14.

CUMULATIVE AREA = .21 SQ MI

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HYDROGRAPH AT STATION E6
TRANSPOSITION AREA 5.0 SQ MI

TOTAL RAINFALL = 4.12, TOTAL LOSS = 2.93, TOTAL EXCESS = 1.19

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
281.	12.08	(CFS)	27.	7.	7.	7.
		(INCHES)	1.209	1.209	1.209	1.209
		(AC-FT)	14.	14.	14.	14.

CUMULATIVE AREA = .21 SQ MI

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

HYDROGRAPH AT STATION E6
TRANSPOSITION AREA 10.0 SQ MI

TOTAL RAINFALL = 3.99, TOTAL LOSS = 2.85, TOTAL EXCESS = 1.14

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
268.	12.08	(CFS)	26.	7.	6.	6.
		(INCHES)	1.153	1.153	1.153	1.153
		(AC-FT)	13.	13.	13.	13.

CUMULATIVE AREA = .21 SQ MI

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HYDROGRAPH AT STATION E6
TRANSPOSITION AREA 50.0 SQ MI

TOTAL RAINFALL = 3.70, TOTAL LOSS = 2.69, TOTAL EXCESS = 1.01

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
239.	12.08	(CFS)	23.	6.	6.	6.

(INCHES)	1.027	1.027	1.027	1.027
(AC-FT)	12.	12.	12.	12.

CUMULATIVE AREA = .21 SQ MI

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HYDROGRAPH AT STATION E6
TRANSPOSITION AREA 100.0 SQ MI

TOTAL RAINFALL = 3.57, TOTAL LOSS = 2.61, TOTAL EXCESS = .96

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
225.	12.08	(CFS)	22.	5.	5.	5.
		(INCHES)	.970	.970	.970	.970
		(AC-FT)	11.	11.	11.	11.

CUMULATIVE AREA = .21 SQ MI

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HYDROGRAPH AT STATION E6
TRANSPOSITION AREA 500.0 SQ MI

TOTAL RAINFALL = 3.28, TOTAL LOSS = 2.45, TOTAL EXCESS = .83

K FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
195.	12.08	(CFS)	19.	5.	5.	5.
		(INCHES)	.840	.840	.840	.840
		(AC-FT)	9.	9.	9.	9.

CUMULATIVE AREA = .21 SQ MI

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INTERPOLATED HYDROGRAPH AT E6

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	0.	1		1230	151	74.	1		1845	226	0.
1		0005	2	0.	1		0620	77	0.	1		1235	152	41.	1		1850	227	0.
1		0010	3	0.	1		0625	78	0.	1		1240	153	22.	1		1855	228	0.
1		0015	4	0.	1		0630	79	0.	1		1245	154	12.	1		1900	229	0.
1		0020	5	0.	1		0635	80	0.	1		1250	155	6.	1		1905	230	0.
1		0025	6	0.	1		0640	81	0.	1		1255	156	4.	1		1910	231	0.
1		0030	7	0.	1		0645	82	0.	1		1300	157	2.	1		1915	232	0.
1		0035	8	0.	1		0650	83	0.	1		1305	158	0.	1		1920	233	0.
1		0040	9	0.	1		0655	84	0.	1		1310	159	0.	1		1925	234	0.
1		0045	10	0.	1		0700	85	0.	1		1315	160	0.	1		1930	235	0.
1		0050	11	0.	1		0705	86	0.	1		1320	161	0.	1		1935	236	0.
1		0055	12	0.	1		0710	87	0.	1		1325	162	0.	1		1940	237	0.
1		0100	13	0.	1		0715	88	0.	1		1330	163	0.	1		1945	238	0.
1		0105	14	0.	1		0720	89	0.	1		1335	164	0.	1		1950	239	0.

1	0110	15	0.	*	1	0725	90	0.	*	1	1340	165	0.	*	1	1955	240	0.
1	0115	16	0.	*	1	0730	91	0.	*	1	1345	166	0.	*	1	2000	241	0.
1	0120	17	0.	*	1	0735	92	0.	*	1	1350	167	0.	*	1	2005	242	0.
1	0125	18	0.	*	1	0740	93	0.	*	1	1355	168	0.	*	1	2010	243	0.
1	0130	19	0.	*	1	0745	94	0.	*	1	1400	169	0.	*	1	2015	244	0.
1	0135	20	0.	*	1	0750	95	0.	*	1	1405	170	0.	*	1	2020	245	0.
1	0140	21	0.	*	1	0755	96	0.	*	1	1410	171	0.	*	1	2025	246	0.
1	0145	22	0.	*	1	0800	97	0.	*	1	1415	172	0.	*	1	2030	247	0.
1	0150	23	0.	*	1	0805	98	0.	*	1	1420	173	0.	*	1	2035	248	0.
1	0155	24	0.	*	1	0810	99	0.	*	1	1425	174	0.	*	1	2040	249	0.
1	0200	25	0.	*	1	0815	100	0.	*	1	1430	175	0.	*	1	2045	250	0.
1	0205	26	0.	*	1	0820	101	0.	*	1	1435	176	0.	*	1	2050	251	0.
1	0210	27	0.	*	1	0825	102	0.	*	1	1440	177	0.	*	1	2055	252	0.
1	0215	28	0.	*	1	0830	103	0.	*	1	1445	178	0.	*	1	2100	253	0.
1	0220	29	0.	*	1	0835	104	0.	*	1	1450	179	0.	*	1	2105	254	0.
1	0225	30	0.	*	1	0840	105	0.	*	1	1455	180	0.	*	1	2110	255	0.
1	0230	31	0.	*	1	0845	106	0.	*	1	1500	181	0.	*	1	2115	256	0.
1	0235	32	0.	*	1	0850	107	0.	*	1	1505	182	0.	*	1	2120	257	0.
1	0240	33	0.	*	1	0855	108	0.	*	1	1510	183	0.	*	1	2125	258	0.
1	0245	34	0.	*	1	0900	109	0.	*	1	1515	184	0.	*	1	2130	259	0.
1	0250	35	0.	*	1	0905	110	0.	*	1	1520	185	0.	*	1	2135	260	0.
1	0255	36	0.	*	1	0910	111	0.	*	1	1525	186	0.	*	1	2140	261	0.
1	0300	37	0.	*	1	0915	112	0.	*	1	1530	187	0.	*	1	2145	262	0.
1	0305	38	0.	*	1	0920	113	0.	*	1	1535	188	0.	*	1	2150	263	0.
1	0310	39	0.	*	1	0925	114	0.	*	1	1540	189	0.	*	1	2155	264	0.
1	0315	40	0.	*	1	0930	115	0.	*	1	1545	190	0.	*	1	2200	265	0.
1	0320	41	0.	*	1	0935	116	0.	*	1	1550	191	0.	*	1	2205	266	0.
1	0325	42	0.	*	1	0940	117	0.	*	1	1555	192	0.	*	1	2210	267	0.
1	0330	43	0.	*	1	0945	118	0.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	0.	*	1	0950	119	0.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	0.	*	1	0955	120	0.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	0.	*	1	1000	121	0.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	0.	*	1	1005	122	0.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	0.	*	1	1010	123	0.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	0.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	0.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	0.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	0.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	0.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	0.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	0.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	0.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	0.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	0.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	0.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	0.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	0.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	0.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	0.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	0.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	0.	*	1	1135	140	7.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	0.	*	1	1140	141	32.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	0.	*	1	1145	142	71.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	0.	*	1	1150	143	131.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	0.	*	1	1155	144	204.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	0.	*	1	1200	145	256.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	0.	*	1	1205	146	285.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	0.	*	1	1210	147	278.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	0.	*	1	1215	148	250.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	0.	*	1	1220	149	196.	*	1	1835	224	0.	*	2	0050	299	0.

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   1     0610   75        0.   *    1     1225  150       123.   *    1     1840  225        0.   *    2     0055  300        0.
                             *                                    *                                    *
*****************************************************************************************************************************************

K FLOW     TIME                                MAXIMUM AVERAGE FLOW
(CFS)      (HR)                    6-HR        24-HR       72-HR      24.92-HR
 285.     12.08        (CFS)        28.          7.          7.          7.
                      (INCHES)    1.227        1.227       1.227       1.227
                      (AC-FT)       14.          14.         14.         14.

                     CUMULATIVE AREA =     .21 SQ MI



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


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          *            *
598 KK    *        5E  *
          *            *
          **************
                          Combining E1+E2+E3+E4+F1+F2+F3+F4+H1 & J1 & K1+K2 & E5 & H2 & J2 & K3 & E6

600 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          2  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL          0.  HYDROGRAPH PLOT SCALE
                     IPNCH          0  PUNCH COMPUTED HYDROGRAPH
                      IOUT         22  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

                         ***************** BASIC STUDY - COMBINED STREAM FLOW **********************

601 HC          HYDROGRAPH COMBINATION
                     ICOMP          2  NUMBER OF HYDROGRAPHS TO COMBINE

                                                    ***

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

                       HYDROGRAPH AT STATION       5E
                      TRANSPOSITION AREA       .0 SQ MI

PEAK FLOW     TIME                                MAXIMUM AVERAGE FLOW
(CFS)         (HR)                    6-HR        24-HR       72-HR      24.92-HR
 8647.       14.50        (CFS)      3600.         957.        922.        922.
                          (INCHES)   1.127        1.198       1.198       1.198
                          (AC-FT)    1785.        1899.       1899.       1899.

                         CUMULATIVE AREA =   29.71 SQ MI

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

                       HYDROGRAPH AT STATION       5E
                      TRANSPOSITION AREA      5.0 SQ MI
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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
8333.	14.50	(CFS)	3485.	928.	894.	894.
		(INCHES)	1.091	1.161	1.161	1.161
		(AC-FT)	1728.	1840.	1840.	1840.

CUMULATIVE AREA = 29.71 SQ MI

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

HYDROGRAPH AT STATION 5E
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
7832.	14.58	(CFS)	3300.	880.	848.	848.
		(INCHES)	1.033	1.102	1.102	1.102
		(AC-FT)	1636.	1746.	1746.	1746.

CUMULATIVE AREA = 29.71 SQ MI

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

HYDROGRAPH AT STATION 5E
TRANSPOSITION AREA 50.0 SQ MI

K FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
6773.	14.58	(CFS)	2886.	773.	745.	745.
		(INCHES)	.903	.968	.968	.968
		(AC-FT)	1431.	1534.	1534.	1534.

CUMULATIVE AREA = 29.71 SQ MI

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

HYDROGRAPH AT STATION 5E
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
6308.	14.67	(CFS)	2700.	725.	699.	699.
		(INCHES)	.845	.908	.908	.908
		(AC-FT)	1339.	1439.	1439.	1439.

CUMULATIVE AREA = 29.71 SQ MI

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

HYDROGRAPH AT STATION 5E
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
5251.	14.75	(CFS)	2286.	618.	595.	595.

(INCHES)	.715	.774	.774	.774
(AC-FT)	1134.	1226.	1226.	1226.

CUMULATIVE AREA = 29.71 SQ MI

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INTERPOLATED HYDROGRAPH AT 5E

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	0.	1		1230	151	520.	1		1845	226	429.
1		0005	2	0.	1		0620	77	0.	1		1235	152	620.	1		1850	227	410.
1		0010	3	0.	1		0625	78	0.	1		1240	153	767.	1		1855	228	394.
1		0015	4	0.	1		0630	79	0.	1		1245	154	930.	1		1900	229	379.
1		0020	5	0.	1		0635	80	0.	1		1250	155	1086.	1		1905	230	364.
1		0025	6	0.	1		0640	81	0.	1		1255	156	1250.	1		1910	231	349.
1		0030	7	0.	1		0645	82	0.	1		1300	157	1446.	1		1915	232	335.
1		0035	8	0.	1		0650	83	1.	1		1305	158	1676.	1		1920	233	320.
1		0040	9	0.	1		0655	84	1.	1		1310	159	1934.	1		1925	234	305.
1		0045	10	0.	1		0700	85	1.	1		1315	160	2203.	1		1930	235	287.
1		0050	11	0.	1		0705	86	1.	1		1320	161	2476.	1		1935	236	264.
1		0055	12	0.	1		0710	87	1.	1		1325	162	2735.	1		1940	237	239.
1		0100	13	0.	1		0715	88	1.	1		1330	163	2991.	1		1945	238	220.
1		0105	14	0.	1		0720	89	1.	1		1335	164	3256.	1		1950	239	209.
1		0110	15	0.	1		0725	90	1.	1		1340	165	3546.	1		1955	240	200.
1		0115	16	0.	1		0730	91	1.	1		1345	166	3885.	1		2000	241	192.
1		0120	17	0.	1		0735	92	1.	1		1350	167	4278.	1		2005	242	186.
1		0125	18	0.	1		0740	93	2.	1		1355	168	4700.	1		2010	243	181.
1		0130	19	0.	1		0745	94	2.	1		1400	169	5160.	1		2015	244	176.
1		0135	20	0.	1		0750	95	2.	1		1405	170	5608.	1		2020	245	170.
1		0140	21	0.	1		0755	96	2.	1		1410	171	6040.	1		2025	246	165.
1		0145	22	0.	1		0800	97	2.	1		1415	172	6418.	1		2030	247	159.
1		0150	23	0.	1		0805	98	2.	1		1420	173	6718.	1		2035	248	154.
1		0155	24	0.	1		0810	99	3.	1		1425	174	6939.	1		2040	249	148.
1		0200	25	0.	1		0815	100	3.	1		1430	175	7077.	1		2045	250	143.
1		0205	26	0.	1		0820	101	3.	1		1435	176	7120.	1		2050	251	138.
1		0210	27	0.	1		0825	102	3.	1		1440	177	7079.	1		2055	252	133.
1		0215	28	0.	1		0830	103	3.	1		1445	178	6965.	1		2100	253	128.
1		0220	29	0.	1		0835	104	4.	1		1450	179	6787.	1		2105	254	123.
1		0225	30	0.	1		0840	105	4.	1		1455	180	6553.	1		2110	255	119.
1		0230	31	0.	1		0845	106	4.	1		1500	181	6270.	1		2115	256	115.
1		0235	32	0.	1		0850	107	4.	1		1505	182	5957.	1		2120	257	111.
1		0240	33	0.	1		0855	108	5.	1		1510	183	5631.	1		2125	258	108.
1		0245	34	0.	1		0900	109	5.	1		1515	184	5305.	1		2130	259	105.
1		0250	35	0.	1		0905	110	5.	1		1520	185	4978.	1		2135	260	102.
1		0255	36	0.	1		0910	111	6.	1		1525	186	4659.	1		2140	261	99.
1		0300	37	0.	1		0915	112	6.	1		1530	187	4357.	1		2145	262	96.
1		0305	38	0.	1		0920	113	6.	1		1535	188	4076.	1		2150	263	94.
1		0310	39	0.	1		0925	114	7.	1		1540	189	3812.	1		2155	264	91.
1		0315	40	0.	1		0930	115	7.	1		1545	190	3573.	1		2200	265	88.
1		0320	41	0.	1		0935	116	7.	1		1550	191	3371.	1		2205	266	86.
1		0325	42	0.	1		0940	117	8.	1		1555	192	3188.	1		2210	267	84.
1		0330	43	0.	1		0945	118	8.	1		1600	193	3028.	1		2215	268	82.
1		0335	44	0.	1		0950	119	8.	1		1605	194	2884.	1		2220	269	80.
1		0340	45	0.	1		0955	120	9.	1		1610	195	2753.	1		2225	270	78.
1		0345	46	0.	1		1000	121	9.	1		1615	196	2628.	1		2230	271	76.

1	0350	47	0.	*	1	1005	122	9.	*	1	1620	197	2500.	*	1	2235	272	75.
1	0355	48	0.	*	1	1010	123	10.	*	1	1625	198	2371.	*	1	2240	273	73.
1	0400	49	0.	*	1	1015	124	10.	*	1	1630	199	2236.	*	1	2245	274	72.
1	0405	50	0.	*	1	1020	125	11.	*	1	1635	200	2101.	*	1	2250	275	71.
1	0410	51	0.	*	1	1025	126	11.	*	1	1640	201	1974.	*	1	2255	276	70.
1	0415	52	0.	*	1	1030	127	12.	*	1	1645	202	1854.	*	1	2300	277	68.
1	0420	53	0.	*	1	1035	128	12.	*	1	1650	203	1733.	*	1	2305	278	68.
1	0425	54	0.	*	1	1040	129	13.	*	1	1655	204	1612.	*	1	2310	279	67.
1	0430	55	0.	*	1	1045	130	13.	*	1	1700	205	1497.	*	1	2315	280	66.
1	0435	56	0.	*	1	1050	131	14.	*	1	1705	206	1396.	*	1	2320	281	65.
1	0440	57	0.	*	1	1055	132	14.	*	1	1710	207	1306.	*	1	2325	282	65.
1	0445	58	0.	*	1	1100	133	15.	*	1	1715	208	1220.	*	1	2330	283	64.
1	0450	59	0.	*	1	1105	134	16.	*	1	1720	209	1134.	*	1	2335	284	64.
1	0455	60	0.	*	1	1110	135	17.	*	1	1725	210	1052.	*	1	2340	285	63.
1	0500	61	0.	*	1	1115	136	18.	*	1	1730	211	974.	*	1	2345	286	63.
1	0505	62	0.	*	1	1120	137	18.	*	1	1735	212	898.	*	1	2350	287	63.
1	0510	63	0.	*	1	1125	138	19.	*	1	1740	213	831.	*	1	2355	288	62.
1	0515	64	0.	*	1	1130	139	21.	*	1	1745	214	772.	*	2	0000	289	62.
1	0520	65	0.	*	1	1135	140	27.	*	1	1750	215	722.	*	2	0005	290	62.
1	0525	66	0.	*	1	1140	141	51.	*	1	1755	216	680.	*	2	0010	291	61.
1	0530	67	0.	*	1	1145	142	88.	*	1	1800	217	646.	*	2	0015	292	61.
1	0535	68	0.	*	1	1150	143	145.	*	1	1805	218	619.	*	2	0020	293	60.
1	0540	69	0.	*	1	1155	144	222.	*	1	1810	219	595.	*	2	0025	294	60.
1	0545	70	0.	*	1	1200	145	295.	*	1	1815	220	569.	*	2	0030	295	60.
1	0550	71	0.	*	1	1205	146	374.	*	1	1820	221	544.	*	2	0035	296	59.
1	0555	72	0.	*	1	1210	147	440.	*	1	1825	222	519.	*	2	0040	297	59.
1	0600	73	0.	*	1	1215	148	482.	*	1	1830	223	495.	*	2	0045	298	58.
1	0605	74	0.	*	1	1220	149	476.	*	1	1835	224	472.	*	2	0050	299	58.
1	0610	75	0.	*	1	1225	150	470.	*	1	1840	225	449.	*	2	0055	300	57.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
7120.	14.58	(CFS)	3022.	808.	779.	779.
		(INCHES)	.946	1.012	1.012	1.012
		(AC-FT)	1498.	1603.	1603.	1603.

CUMULATIVE AREA = 29.71 SQ MI

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603 KK

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* *
* L1 *
* *
****

BASIN L1
THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
L= 4.0 Lca= 1.6 S= 450.0 Kn= .050 LAG= 46.0
PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN

608 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE

	IPNCH	0	PUNCH COMPUTED HYDROGRAPH
	IOUT	22	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

SUBBASIN RUNOFF DATA

609 BA SUBBASIN CHARACTERISTICS

TAREA	3.48	SUBBASIN AREA

610 LG GREEN AND AMPT LOSS RATE

STRTL	.28	STARTING LOSS
DTH	.35	MOISTURE DEFICIT
PSIF	3.92	WETTING FRONT SUCTION
XKSAT	.34	HYDRAULIC CONDUCTIVITY
RTIMP	15.00	PERCENT IMPERVIOUS AREA

609 UI INPUT UNITGRAPH, 42 ORDINATES, VOLUME = 1.00

255.0	255.0	713.0	1133.0	1568.0	1848.0	2155.0	2898.0	2287.0	1685.0
1488.0	1335.0	1207.0	1062.0	940.0	800.0	659.0	607.0	559.0	476.0
399.0	326.0	300.0	279.0	227.0	195.0	195.0	135.0	125.0	125.0
125.0	84.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0
49.0	49.0								

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HYDROGRAPH AT STATION L1
TRANSPOSITION AREA .0 SQ MI

TOTAL RAINFALL = 4.20, TOTAL LOSS = 2.54, TOTAL EXCESS = 1.66

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2700.	12.33	(CFS)	552.	155.	149.	149.
		(INCHES)	1.474	1.657	1.659	1.659
		(AC-FT)	274.	308.	308.	308.

CUMULATIVE AREA = 3.48 SQ MI

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

HYDROGRAPH AT STATION L1
TRANSPOSITION AREA 5.0 SQ MI

TOTAL RAINFALL = 4.12, TOTAL LOSS = 2.50, TOTAL EXCESS = 1.62

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2628.	12.33	(CFS)	537.	151.	146.	146.
		(INCHES)	1.436	1.616	1.617	1.617
		(AC-FT)	267.	300.	300.	300.

CUMULATIVE AREA = 3.48 SQ MI

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

HYDROGRAPH AT STATION L1
TRANSPOSITION AREA 10.0 SQ MI

TOTAL RAINFALL = 3.99, TOTAL LOSS = 2.44, TOTAL EXCESS = 1.55

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2511.	12.33	(CFS)	514.	145.	140.	140.
		(INCHES)	1.374	1.549	1.550	1.550
		(AC-FT)	255.	287.	288.	288.

CUMULATIVE AREA = 3.48 SQ MI

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HYDROGRAPH AT STATION L1
TRANSPOSITION AREA 50.0 SQ MI

TOTAL RAINFALL = 3.70, TOTAL LOSS = 2.30, TOTAL EXCESS = 1.40

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2248.	12.33	(CFS)	462.	131.	126.	126.
		(INCHES)	1.236	1.397	1.398	1.398
		(AC-FT)	229.	259.	260.	260.

CUMULATIVE AREA = 3.48 SQ MI

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

HYDROGRAPH AT STATION L1
TRANSPOSITION AREA 100.0 SQ MI

TOTAL RAINFALL = 3.57, TOTAL LOSS = 2.24, TOTAL EXCESS = 1.33

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2128.	12.42	(CFS)	439.	124.	120.	120.
		(INCHES)	1.173	1.329	1.330	1.330
		(AC-FT)	218.	247.	247.	247.

CUMULATIVE AREA = 3.48 SQ MI

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

HYDROGRAPH AT STATION L1
TRANSPOSITION AREA 500.0 SQ MI

TOTAL RAINFALL = 3.28, TOTAL LOSS = 2.10, TOTAL EXCESS = 1.18

K FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1861.	12.42	(CFS)	386.	110.	106.	106.
		(INCHES)	1.031	1.174	1.175	1.175
		(AC-FT)	191.	218.	218.	218.

CUMULATIVE AREA = 3.48 SQ MI

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INTERPOLATED HYDROGRAPH AT L1

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	23.	*	1		1230	151	2534.	*	1		1845	226	25.
1		0005	2	0.	*	1		0620	77	23.	*	1		1235	152	2351.	*	1		1850	227	24.
1		0010	3	0.	*	1		0625	78	24.	*	1		1240	153	1985.	*	1		1855	228	24.
1		0015	4	1.	*	1		0630	79	24.	*	1		1245	154	1715.	*	1		1900	229	24.
1		0020	5	1.	*	1		0635	80	24.	*	1		1250	155	1537.	*	1		1905	230	24.
1		0025	6	2.	*	1		0640	81	24.	*	1		1255	156	1369.	*	1		1910	231	23.
1		0030	7	3.	*	1		0645	82	24.	*	1		1300	157	1219.	*	1		1915	232	23.
1		0035	8	4.	*	1		0650	83	24.	*	1		1305	158	1083.	*	1		1920	233	23.
1		0040	9	6.	*	1		0655	84	24.	*	1		1310	159	957.	*	1		1925	234	23.
1		0045	10	7.	*	1		0700	85	24.	*	1		1315	160	841.	*	1		1930	235	23.
1		0050	11	8.	*	1		0705	86	25.	*	1		1320	161	741.	*	1		1935	236	23.
1		0055	12	9.	*	1		0710	87	25.	*	1		1325	162	663.	*	1		1940	237	23.
1		0100	13	10.	*	1		0715	88	25.	*	1		1330	163	592.	*	1		1945	238	23.
1		0105	14	10.	*	1		0720	89	25.	*	1		1335	164	520.	*	1		1950	239	22.
1		0110	15	11.	*	1		0725	90	26.	*	1		1340	165	457.	*	1		1955	240	22.
1		0115	16	12.	*	1		0730	91	26.	*	1		1345	166	411.	*	1		2000	241	22.
1		0120	17	12.	*	1		0735	92	26.	*	1		1350	167	368.	*	1		2005	242	22.
1		0125	18	13.	*	1		0740	93	27.	*	1		1355	168	329.	*	1		2010	243	21.
1		0130	19	13.	*	1		0745	94	28.	*	1		1400	169	293.	*	1		2015	244	21.
1		0135	20	13.	*	1		0750	95	28.	*	1		1405	170	269.	*	1		2020	245	21.
1		0140	21	13.	*	1		0755	96	28.	*	1		1410	171	242.	*	1		2025	246	21.
1		0145	22	13.	*	1		0800	97	29.	*	1		1415	172	209.	*	1		2030	247	21.
1		0150	23	14.	*	1		0805	98	29.	*	1		1420	173	189.	*	1		2035	248	20.
1		0155	24	14.	*	1		0810	99	29.	*	1		1425	174	171.	*	1		2040	249	20.
1		0200	25	14.	*	1		0815	100	29.	*	1		1430	175	153.	*	1		2045	250	20.
1		0205	26	14.	*	1		0820	101	30.	*	1		1435	176	135.	*	1		2050	251	20.
1		0210	27	15.	*	1		0825	102	30.	*	1		1440	177	125.	*	1		2055	252	20.
1		0215	28	15.	*	1		0830	103	31.	*	1		1445	178	123.	*	1		2100	253	19.
1		0220	29	15.	*	1		0835	104	31.	*	1		1450	179	121.	*	1		2105	254	19.
1		0225	30	15.	*	1		0840	105	32.	*	1		1455	180	119.	*	1		2110	255	19.
1		0230	31	16.	*	1		0845	106	33.	*	1		1500	181	117.	*	1		2115	256	19.
1		0235	32	16.	*	1		0850	107	33.	*	1		1505	182	106.	*	1		2120	257	18.
1		0240	33	16.	*	1		0855	108	34.	*	1		1510	183	94.	*	1		2125	258	18.
1		0245	34	16.	*	1		0900	109	34.	*	1		1515	184	83.	*	1		2130	259	18.
1		0250	35	16.	*	1		0905	110	35.	*	1		1520	185	72.	*	1		2135	260	18.
1		0255	36	17.	*	1		0910	111	36.	*	1		1525	186	61.	*	1		2140	261	19.
1		0300	37	17.	*	1		0915	112	36.	*	1		1530	187	49.	*	1		2145	262	19.
1		0305	38	17.	*	1		0920	113	37.	*	1		1535	188	48.	*	1		2150	263	19.
1		0310	39	17.	*	1		0925	114	37.	*	1		1540	189	46.	*	1		2155	264	19.
1		0315	40	18.	*	1		0930	115	38.	*	1		1545	190	45.	*	1		2200	265	18.
1		0320	41	18.	*	1		0935	116	39.	*	1		1550	191	44.	*	1		2205	266	18.
1		0325	42	18.	*	1		0940	117	40.	*	1		1555	192	43.	*	1		2210	267	18.
1		0330	43	18.	*	1		0945	118	41.	*	1		1600	193	42.	*	1		2215	268	18.
1		0335	44	18.	*	1		0950	119	41.	*	1		1605	194	41.	*	1		2220	269	18.
1		0340	45	18.	*	1		0955	120	42.	*	1		1610	195	40.	*	1		2225	270	18.
1		0345	46	18.	*	1		1000	121	43.	*	1		1615	196	39.	*	1		2230	271	17.
1		0350	47	18.	*	1		1005	122	44.	*	1		1620	197	38.	*	1		2235	272	17.
1		0355	48	18.	*	1		1010	123	45.	*	1		1625	198	37.	*	1		2240	273	17.

1	0400	49	18.	*	1	1015	124	46.	*	1	1630	199	36.	*	1	2245	274	17.
1	0405	50	18.	*	1	1020	125	47.	*	1	1635	200	36.	*	1	2250	275	17.
1	0410	51	18.	*	1	1025	126	48.	*	1	1640	201	35.	*	1	2255	276	17.
1	0415	52	18.	*	1	1030	127	50.	*	1	1645	202	34.	*	1	2300	277	16.
1	0420	53	19.	*	1	1035	128	52.	*	1	1650	203	34.	*	1	2305	278	16.
1	0425	54	19.	*	1	1040	129	54.	*	1	1655	204	33.	*	1	2310	279	16.
1	0430	55	19.	*	1	1045	130	56.	*	1	1700	205	33.	*	1	2315	280	16.
1	0435	56	20.	*	1	1050	131	58.	*	1	1705	206	33.	*	1	2320	281	16.
1	0440	57	20.	*	1	1055	132	60.	*	1	1710	207	32.	*	1	2325	282	16.
1	0445	58	20.	*	1	1100	133	63.	*	1	1715	208	32.	*	1	2330	283	16.
1	0450	59	20.	*	1	1105	134	66.	*	1	1720	209	32.	*	1	2335	284	16.
1	0455	60	20.	*	1	1110	135	69.	*	1	1725	210	31.	*	1	2340	285	16.
1	0500	61	20.	*	1	1115	136	73.	*	1	1730	211	31.	*	1	2345	286	16.
1	0505	62	20.	*	1	1120	137	77.	*	1	1735	212	31.	*	1	2350	287	16.
1	0510	63	20.	*	1	1125	138	81.	*	1	1740	213	30.	*	1	2355	288	16.
1	0515	64	20.	*	1	1130	139	86.	*	1	1745	214	30.	*	2	0000	289	16.
1	0520	65	20.	*	1	1135	140	141.	*	1	1750	215	29.	*	2	0005	290	15.
1	0525	66	20.	*	1	1140	141	198.	*	1	1755	216	29.	*	2	0010	291	15.
1	0530	67	20.	*	1	1145	142	344.	*	1	1800	217	29.	*	2	0015	292	14.
1	0535	68	21.	*	1	1150	143	573.	*	1	1805	218	28.	*	2	0020	293	14.
1	0540	69	21.	*	1	1155	144	890.	*	1	1810	219	28.	*	2	0025	294	13.
1	0545	70	21.	*	1	1200	145	1264.	*	1	1815	220	27.	*	2	0030	295	12.
1	0550	71	21.	*	1	1205	146	1650.	*	1	1820	221	27.	*	2	0035	296	10.
1	0555	72	22.	*	1	1210	147	2184.	*	1	1825	222	26.	*	2	0040	297	9.
1	0600	73	22.	*	1	1215	148	2509.	*	1	1830	223	26.	*	2	0045	298	8.
1	0605	74	22.	*	1	1220	149	2632.	*	1	1835	224	25.	*	2	0050	299	7.
1	0610	75	23.	*	1	1225	150	2627.	*	1	1840	225	25.	*	2	0055	300	6.
				*					*					*				

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AK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
2632.	12.33	(CFS)	538.	151.	146.	146.
		(INCHES)	1.438	1.619	1.620	1.620
		(AC-FT)	267.	300.	301.	301.

CUMULATIVE AREA = 3.48 SQ MI

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          *            *
617 KK    *     L1-1L  *       Routing thru L2
          *            *
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618 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

HYDROGRAPH ROUTING DATA

619 RS STORAGE ROUTING

NSTPS	12	NUMBER OF SUBREACHES
ITYP	FLOW	TYPE OF INITIAL CONDITION
RSVRIC	.00	INITIAL CONDITION
X	.00	WORKING R AND D COEFFICIENT

620 RC NORMAL DEPTH CHANNEL

ANL	.046	LEFT OVERBANK N-VALUE
ANCH	.045	MAIN CHANNEL N-VALUE
ANR	.046	RIGHT OVERBANK N-VALUE
RLNTH	30784.	REACH LENGTH
SEL	.0203	ENERGY SLOPE
ELMAX	.0	MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

CROSS-SECTION DATA

		--- LEFT OVERBANK ---		+ ------ MAIN CHANNEL -------			+ --- RIGHT OVERBANK ---		
622 RY	ELEVATION	19.00	17.00	14.00	10.00	10.00	14.00	18.00	22.00
621 RX	DISTANCE	.00	80.00	165.00	200.00	215.00	255.00	340.00	420.00

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COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	9.34	23.96	43.87	69.06	99.55	135.31	178.29	234.77	305.23
OUTFLOW	.00	38.83	146.28	335.34	620.73	1016.51	1535.99	2299.85	3316.89	4590.48
ELEVATION	10.00	10.63	11.26	11.89	12.53	13.16	13.79	14.42	15.05	15.68
STORAGE	389.66	488.07	601.84	732.84	880.84	1042.58	1210.31	1383.67	1562.68	1747.32
OUTFLOW	6162.74	8070.99	10319.06	12998.18	16152.89	20041.32	24508.31	29469.82	34922.58	40865.62
ELEVATION	16.32	16.95	17.58	18.21	18.84	19.47	20.11	20.74	21.37	22.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 20041. TO 40866.
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.)

2.63 OK

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HYDROGRAPH AT STATION L1-1L
TRANSPOSITION AREA .0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2336.	13.08	(CFS)	551.	153.	148.	148.
		(INCHES)	1.471	1.639	1.639	1.639
		(AC-FT)	273.	304.	304.	304.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
15.	13.08	5.	1.	1.	1.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
14.44	13.08	11.93	10.74	10.71	10.71

CUMULATIVE AREA = 3.48 SQ MI

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HYDROGRAPH AT STATION L1-1L
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2266.	13.08	(CFS)	537.	150.	144.	144.
		(INCHES)	1.434	1.598	1.598	1.598
		(AC-FT)	266.	297.	297.	297.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
15.	13.08	5.	1.	1.	1.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
14.39	13.08	11.91	10.73	10.70	10.70

CUMULATIVE AREA = 3.48 SQ MI

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HYDROGRAPH AT STATION L1-1L
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2158.	13.17	(CFS)	513.	143.	138.	138.
		(INCHES)	1.372	1.531	1.531	1.531
		(AC-FT)	255.	284.	284.	284.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
14.	13.17	4.	1.	1.	1.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
14.30	13.17	11.88	10.71	10.69	10.69

CUMULATIVE AREA = 3.48 SQ MI

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HYDROGRAPH AT STATION L1-1L
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1918.	13.17	(CFS)	461.	129.	124.	124.
		(INCHES)	1.232	1.381	1.381	1.381
		(AC-FT)	229.	256.	256.	256.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
13.	13.17	4.	1.	1.	1.

PEAK STAGE (FEET)	TIME (HR)		MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
14.11	13.17		11.79	10.67	10.65	10.65

CUMULATIVE AREA = 3.48 SQ MI

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HYDROGRAPH AT STATION L1-1L
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1803.	13.17	(CFS)	438.	123.	118.	118.
		(INCHES)	1.169	1.313	1.313	1.313
		(AC-FT)	217.	244.	244.	244.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
13.	13.17	4.	1.	1.	1.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
14.01	13.17	11.75	10.66	10.63	10.63

CUMULATIVE AREA = 3.48 SQ MI

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HYDROGRAPH AT STATION L1-1L
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1534.	13.25	(CFS)	384.	108.	104.	104.
		(INCHES)	1.027	1.159	1.159	1.159
		(AC-FT)	191.	215.	215.	215.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
11.	13.25	4.	1.	1.	1.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
13.79	13.25	11.66	10.62	10.59	10.59

CUMULATIVE AREA = 3.48 SQ MI

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INTERPOLATED HYDROGRAPH AT L1-1L

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	17.	1		1230	151	95.	1		1845	226	38.

1	0005	2	0.	*	1	0620	77	17.	*	1	1235	152	160.	*	1	1850	227	38.
1	0010	3	0.	*	1	0625	78	17.	*	1	1240	153	332.	*	1	1855	228	38.
1	0015	4	0.	*	1	0630	79	18.	*	1	1245	154	672.	*	1	1900	229	37.
1	0020	5	0.	*	1	0635	80	18.	*	1	1250	155	1176.	*	1	1905	230	37.
1	0025	6	0.	*	1	0640	81	18.	*	1	1255	156	1722.	*	1	1910	231	37.
1	0030	7	0.	*	1	0645	82	18.	*	1	1300	157	2120.	*	1	1915	232	36.
1	0035	8	0.	*	1	0650	83	18.	*	1	1305	158	2270.	*	1	1920	233	36.
1	0040	9	0.	*	1	0655	84	18.	*	1	1310	159	2266.	*	1	1925	234	36.
1	0045	10	0.	*	1	0700	85	18.	*	1	1315	160	2166.	*	1	1930	235	35.
1	0050	11	0.	*	1	0705	86	19.	*	1	1320	161	2012.	*	1	1935	236	35.
1	0055	12	0.	*	1	0710	87	19.	*	1	1325	162	1840.	*	1	1940	237	34.
1	0100	13	0.	*	1	0715	88	19.	*	1	1330	163	1678.	*	1	1945	238	34.
1	0105	14	0.	*	1	0720	89	19.	*	1	1335	164	1545.	*	1	1950	239	34.
1	0110	15	0.	*	1	0725	90	19.	*	1	1340	165	1445.	*	1	1955	240	33.
1	0115	16	0.	*	1	0730	91	19.	*	1	1345	166	1340.	*	1	2000	241	33.
1	0120	17	0.	*	1	0735	92	19.	*	1	1350	167	1232.	*	1	2005	242	32.
1	0125	18	0.	*	1	0740	93	20.	*	1	1355	168	1127.	*	1	2010	243	32.
1	0130	19	0.	*	1	0745	94	20.	*	1	1400	169	1032.	*	1	2015	244	32.
1	0135	20	0.	*	1	0750	95	20.	*	1	1405	170	952.	*	1	2020	245	31.
1	0140	21	0.	*	1	0755	96	20.	*	1	1410	171	873.	*	1	2025	246	31.
1	0145	22	0.	*	1	0800	97	20.	*	1	1415	172	797.	*	1	2030	247	30.
1	0150	23	0.	*	1	0805	98	20.	*	1	1420	173	726.	*	1	2035	248	30.
1	0155	24	0.	*	1	0810	99	21.	*	1	1425	174	663.	*	1	2040	249	30.
1	0200	25	0.	*	1	0815	100	21.	*	1	1430	175	610.	*	1	2045	250	29.
1	0205	26	0.	*	1	0820	101	21.	*	1	1435	176	565.	*	1	2050	251	29.
1	0210	27	0.	*	1	0825	102	21.	*	1	1440	177	520.	*	1	2055	252	29.
1	0215	28	1.	*	1	0830	103	21.	*	1	1445	178	476.	*	1	2100	253	28.
1	0220	29	1.	*	1	0835	104	22.	*	1	1450	179	435.	*	1	2105	254	28.
1	0225	30	1.	*	1	0840	105	22.	*	1	1455	180	398.	*	1	2110	255	27.
1	0230	31	1.	*	1	0845	106	22.	*	1	1500	181	366.	*	1	2115	256	27.
1	0235	32	1.	*	1	0850	107	22.	*	1	1505	182	340.	*	1	2120	257	27.
1	0240	33	2.	*	1	0855	108	22.	*	1	1510	183	318.	*	1	2125	258	26.
1	0245	34	2.	*	1	0900	109	22.	*	1	1515	184	297.	*	1	2130	259	26.
1	0250	35	2.	*	1	0905	110	23.	*	1	1520	185	276.	*	1	2135	260	26.
1	0255	36	3.	*	1	0910	111	23.	*	1	1525	186	255.	*	1	2140	261	25.
1	0300	37	3.	*	1	0915	112	23.	*	1	1530	187	235.	*	1	2145	262	25.
1	0305	38	4.	*	1	0920	113	23.	*	1	1535	188	216.	*	1	2150	263	25.
1	0310	39	4.	*	1	0925	114	24.	*	1	1540	189	199.	*	1	2155	264	25.
1	0315	40	4.	*	1	0930	115	24.	*	1	1545	190	184.	*	1	2200	265	24.
1	0320	41	5.	*	1	0935	116	24.	*	1	1550	191	172.	*	1	2205	266	24.
1	0325	42	5.	*	1	0940	117	24.	*	1	1555	192	161.	*	1	2210	267	24.
1	0330	43	6.	*	1	0945	118	24.	*	1	1600	193	153.	*	1	2215	268	24.
1	0335	44	7.	*	1	0950	119	25.	*	1	1605	194	146.	*	1	2220	269	23.
1	0340	45	7.	*	1	0955	120	25.	*	1	1610	195	141.	*	1	2225	270	23.
1	0345	46	8.	*	1	1000	121	25.	*	1	1615	196	135.	*	1	2230	271	23.
1	0350	47	8.	*	1	1005	122	26.	*	1	1620	197	129.	*	1	2235	272	23.
1	0355	48	9.	*	1	1010	123	26.	*	1	1625	198	123.	*	1	2240	273	22.
1	0400	49	9.	*	1	1015	124	26.	*	1	1630	199	116.	*	1	2245	274	22.
1	0405	50	10.	*	1	1020	125	27.	*	1	1635	200	110.	*	1	2250	275	22.
1	0410	51	10.	*	1	1025	126	27.	*	1	1640	201	103.	*	1	2255	276	22.
1	0415	52	10.	*	1	1030	127	27.	*	1	1645	202	96.	*	1	2300	277	22.
1	0420	53	11.	*	1	1035	128	28.	*	1	1650	203	89.	*	1	2305	278	21.
1	0425	54	11.	*	1	1040	129	28.	*	1	1655	204	83.	*	1	2310	279	21.
1	0430	55	12.	*	1	1045	130	28.	*	1	1700	205	77.	*	1	2315	280	21.
1	0435	56	12.	*	1	1050	131	29.	*	1	1705	206	72.	*	1	2320	281	21.
1	0440	57	12.	*	1	1055	132	29.	*	1	1710	207	67.	*	1	2325	282	21.
1	0445	58	13.	*	1	1100	133	30.	*	1	1715	208	62.	*	1	2330	283	20.
1	0450	59	13.	*	1	1105	134	30.	*	1	1720	209	58.	*	1	2335	284	20.
1	0455	60	13.	*	1	1110	135	31.	*	1	1725	210	55.	*	1	2340	285	20.
1	0500	61	14.	*	1	1115	136	31.	*	1	1730	211	52.	*	1	2345	286	20.

1	0505	62	14.	*	1	1120	137	32.	*	1	1735	212	49.	*	1	2350	287	20.
1	0510	63	14.	*	1	1125	138	32.	*	1	1740	213	47.	*	1	2355	288	20.
1	0515	64	15.	*	1	1130	139	33.	*	1	1745	214	45.	*	2	0000	289	20.
1	0520	65	15.	*	1	1135	140	34.	*	1	1750	215	44.	*	2	0005	290	19.
1	0525	66	15.	*	1	1140	141	36.	*	1	1755	216	42.	*	2	0010	291	19.
1	0530	67	15.	*	1	1145	142	37.	*	1	1800	217	41.	*	2	0015	292	19.
1	0535	68	16.	*	1	1150	143	40.	*	1	1805	218	41.	*	2	0020	293	19.
1	0540	69	16.	*	1	1155	144	43.	*	1	1810	219	40.	*	2	0025	294	19.
1	0545	70	16.	*	1	1200	145	46.	*	1	1815	220	39.	*	2	0030	295	19.
1	0550	71	16.	*	1	1205	146	49.	*	1	1820	221	39.	*	2	0035	296	19.
1	0555	72	16.	*	1	1210	147	52.	*	1	1825	222	39.	*	2	0040	297	18.
1	0600	73	17.	*	1	1215	148	55.	*	1	1830	223	39.	*	2	0045	298	18.
1	0605	74	17.	*	1	1220	149	60.	*	1	1835	224	38.	*	2	0050	299	18.
1	0610	75	17.	*	1	1225	150	71.	*	1	1840	225	38.	*	2	0055	300	18.
				*					*					*				

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2270.	13.08	(CFS)	537.	150.	144.	144.
		(INCHES)	1.436	1.600	1.600	1.600
		(AC-FT)	266.	297.	297.	297.

CUMULATIVE AREA = 3.48 SQ MI

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          *            *
623 KK    *        L2  *
          *            *
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BASIN L2
THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
L= 5.8 Lca= 2.7 S= 107.0 Kn= .065 LAG= 109.0
PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN

628 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

SUBBASIN RUNOFF DATA

629 BA SUBBASIN CHARACTERISTICS

TAREA	7.32	SUBBASIN AREA

630 LG GREEN AND AMPT LOSS RATE

STRTL	.18	STARTING LOSS
DTH	.35	MOISTURE DEFICIT

PSIF 4.14 WETTING FRONT SUCTION
XKSAT .38 HYDRAULIC CONDUCTIVITY
RTIMP .00 PERCENT IMPERVIOUS AREA

UI INPUT UNITGRAPH, 65 ORDINATES, VOLUME = 1.00

226.0	226.0	226.0	226.0	226.0	735.0	799.0	892.0	1044.0	1110.0
1214.0	1281.0	1358.0	1449.0	1562.0	1698.0	1790.0	2004.0	2303.0	2693.0
3013.0	2767.0	2470.0	2247.0	2075.0	1941.0	1825.0	1719.0	1576.0	1463.0
1359.0	1266.0	1157.0	1086.0	1004.0	866.0	671.0	611.0	400.0	400.0
391.0	371.0	371.0	332.0	226.0	226.0	226.0	226.0	186.0	69.0
69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
69.0	69.0	69.0	69.0	69.0					

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HYDROGRAPH AT STATION L2
TRANSPOSITION AREA .0 SQ MI

TOTAL RAINFALL = 4.20, TOTAL LOSS = 3.02, TOTAL EXCESS = 1.18

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
3046.	13.50	(CFS)	927.	232.	223.	223.
		(INCHES)	1.178	1.178	1.178	1.178
		(AC-FT)	460.	460.	460.	460.

CUMULATIVE AREA = 7.32 SQ MI

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HYDROGRAPH AT STATION L2
TRANSPOSITION AREA 5.0 SQ MI

TOTAL RAINFALL = 4.12, TOTAL LOSS = 2.98, TOTAL EXCESS = 1.14

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2957.	13.50	(CFS)	900.	225.	217.	217.
		(INCHES)	1.143	1.143	1.143	1.143
		(AC-FT)	446.	446.	446.	446.

CUMULATIVE AREA = 7.32 SQ MI

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

HYDROGRAPH AT STATION L2
TRANSPOSITION AREA 10.0 SQ MI

TOTAL RAINFALL = 3.99, TOTAL LOSS = 2.90, TOTAL EXCESS = 1.09

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2812.	13.50	(CFS)	856.	214.	206.	206.
		(INCHES)	1.087	1.087	1.087	1.087
		(AC-FT)	425.	425.	425.	425.

CUMULATIVE AREA = 7.32 SQ MI

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HYDROGRAPH AT STATION L2
TRANSPOSITION AREA 50.0 SQ MI

TOTAL RAINFALL = 3.70, TOTAL LOSS = 2.74, TOTAL EXCESS = .96

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2486.	13.50	(CFS)	757.	189.	182.	182.
		(INCHES)	.961	.961	.961	.961
		(AC-FT)	375.	375.	375.	375.

CUMULATIVE AREA = 7.32 SQ MI

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HYDROGRAPH AT STATION L2
TRANSPOSITION AREA 100.0 SQ MI

TOTAL RAINFALL = 3.57, TOTAL LOSS = 2.67, TOTAL EXCESS = .90

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2338.	13.50	(CFS)	711.	178.	171.	171.
		(INCHES)	.904	.904	.904	.904
		(AC-FT)	353.	353.	353.	353.

CUMULATIVE AREA = 7.32 SQ MI

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HYDROGRAPH AT STATION L2
TRANSPOSITION AREA 500.0 SQ MI

TOTAL RAINFALL = 3.28, TOTAL LOSS = 2.51, TOTAL EXCESS = .77

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2003.	13.50	(CFS)	609.	152.	147.	147.
		(INCHES)	.774	.774	.774	.774
		(AC-FT)	302.	302.	302.	302.

CUMULATIVE AREA = 7.32 SQ MI

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INTERPOLATED HYDROGRAPH AT L2

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	0.	1		1230	151	1173.	1		1845	226	0.

1	0005	2	0.	*	1	0620	77	0.	*	1	1235	152	1277.	*	1	1850	227	0.
1	0010	3	0.	*	1	0625	78	0.	*	1	1240	153	1380.	*	1	1855	228	0.
1	0015	4	0.	*	1	0630	79	0.	*	1	1245	154	1476.	*	1	1900	229	0.
1	0020	5	0.	*	1	0635	80	0.	*	1	1250	155	1585.	*	1	1905	230	0.
1	0025	6	0.	*	1	0640	81	0.	*	1	1255	156	1692.	*	1	1910	231	0.
1	0030	7	0.	*	1	0645	82	0.	*	1	1300	157	1825.	*	1	1915	232	0.
1	0035	8	0.	*	1	0650	83	0.	*	1	1305	158	1999.	*	1	1920	233	0.
1	0040	9	0.	*	1	0655	84	0.	*	1	1310	159	2227.	*	1	1925	234	0.
1	0045	10	0.	*	1	0700	85	0.	*	1	1315	160	2494.	*	1	1930	235	0.
1	0050	11	0.	*	1	0705	86	0.	*	1	1320	161	2695.	*	1	1935	236	0.
1	0055	12	0.	*	1	0710	87	0.	*	1	1325	162	2826.	*	1	1940	237	0.
1	0100	13	0.	*	1	0715	88	0.	*	1	1330	163	2877.	*	1	1945	238	0.
1	0105	14	0.	*	1	0720	89	0.	*	1	1335	164	2840.	*	1	1950	239	0.
1	0110	15	0.	*	1	0725	90	0.	*	1	1340	165	2702.	*	1	1955	240	0.
1	0115	16	0.	*	1	0730	91	0.	*	1	1345	166	2481.	*	1	2000	241	0.
1	0120	17	0.	*	1	0735	92	0.	*	1	1350	167	2285.	*	1	2005	242	0.
1	0125	18	0.	*	1	0740	93	0.	*	1	1355	168	2118.	*	1	2010	243	0.
1	0130	19	0.	*	1	0745	94	0.	*	1	1400	169	1972.	*	1	2015	244	0.
1	0135	20	0.	*	1	0750	95	0.	*	1	1405	170	1839.	*	1	2020	245	0.
1	0140	21	0.	*	1	0755	96	0.	*	1	1410	171	1714.	*	1	2025	246	0.
1	0145	22	0.	*	1	0800	97	0.	*	1	1415	172	1590.	*	1	2030	247	0.
1	0150	23	0.	*	1	0805	98	0.	*	1	1420	173	1472.	*	1	2035	248	0.
1	0155	24	0.	*	1	0810	99	0.	*	1	1425	174	1365.	*	1	2040	249	0.
1	0200	25	0.	*	1	0815	100	0.	*	1	1430	175	1254.	*	1	2045	250	0.
1	0205	26	0.	*	1	0820	101	0.	*	1	1435	176	1128.	*	1	2050	251	0.
1	0210	27	0.	*	1	0825	102	0.	*	1	1440	177	1006.	*	1	2055	252	0.
1	0215	28	0.	*	1	0830	103	0.	*	1	1445	178	867.	*	1	2100	253	0.
1	0220	29	0.	*	1	0835	104	0.	*	1	1450	179	739.	*	1	2105	254	0.
1	0225	30	0.	*	1	0840	105	0.	*	1	1455	180	624.	*	1	2110	255	0.
1	0230	31	0.	*	1	0845	106	0.	*	1	1500	181	530.	*	1	2115	256	0.
1	0235	32	0.	*	1	0850	107	0.	*	1	1505	182	474.	*	1	2120	257	0.
1	0240	33	0.	*	1	0855	108	0.	*	1	1510	183	421.	*	1	2125	258	0.
1	0245	34	0.	*	1	0900	109	0.	*	1	1515	184	389.	*	1	2130	259	0.
1	0250	35	0.	*	1	0905	110	0.	*	1	1520	185	357.	*	1	2135	260	0.
1	0255	36	0.	*	1	0910	111	0.	*	1	1525	186	327.	*	1	2140	261	0.
1	0300	37	0.	*	1	0915	112	0.	*	1	1530	187	299.	*	1	2145	262	0.
1	0305	38	0.	*	1	0920	113	0.	*	1	1535	188	265.	*	1	2150	263	0.
1	0310	39	0.	*	1	0925	114	0.	*	1	1540	189	216.	*	1	2155	264	0.
1	0315	40	0.	*	1	0930	115	0.	*	1	1545	190	188.	*	1	2200	265	0.
1	0320	41	0.	*	1	0935	116	0.	*	1	1550	191	158.	*	1	2205	266	0.
1	0325	42	0.	*	1	0940	117	0.	*	1	1555	192	129.	*	1	2210	267	0.
1	0330	43	0.	*	1	0945	118	0.	*	1	1600	193	99.	*	1	2215	268	0.
1	0335	44	0.	*	1	0950	119	0.	*	1	1605	194	77.	*	1	2220	269	0.
1	0340	45	0.	*	1	0955	120	0.	*	1	1610	195	77.	*	1	2225	270	0.
1	0345	46	0.	*	1	1000	121	0.	*	1	1615	196	77.	*	1	2230	271	0.
1	0350	47	0.	*	1	1005	122	0.	*	1	1620	197	77.	*	1	2235	272	0.
1	0355	48	0.	*	1	1010	123	0.	*	1	1625	198	77.	*	1	2240	273	0.
1	0400	49	0.	*	1	1015	124	0.	*	1	1630	199	77.	*	1	2245	274	0.
1	0405	50	0.	*	1	1020	125	0.	*	1	1635	200	77.	*	1	2250	275	0.
1	0410	51	0.	*	1	1025	126	0.	*	1	1640	201	77.	*	1	2255	276	0.
1	0415	52	0.	*	1	1030	127	0.	*	1	1645	202	77.	*	1	2300	277	0.
1	0420	53	0.	*	1	1035	128	0.	*	1	1650	203	77.	*	1	2305	278	0.
1	0425	54	0.	*	1	1040	129	0.	*	1	1655	204	77.	*	1	2310	279	0.
1	0430	55	0.	*	1	1045	130	0.	*	1	1700	205	64.	*	1	2315	280	0.
1	0435	56	0.	*	1	1050	131	0.	*	1	1705	206	52.	*	1	2320	281	0.
1	0440	57	0.	*	1	1055	132	0.	*	1	1710	207	39.	*	1	2325	282	0.
1	0445	58	0.	*	1	1100	133	0.	*	1	1715	208	26.	*	1	2330	283	0.
1	0450	59	0.	*	1	1105	134	0.	*	1	1720	209	13.	*	1	2335	284	0.
1	0455	60	0.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	0.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.

1	0505	62	0.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	0.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	0.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	0.	*	1	1135	140	40.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	0.	*	1	1140	141	82.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	0.	*	1	1145	142	123.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	0.	*	1	1150	143	166.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	0.	*	1	1155	144	209.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	0.	*	1	1200	145	343.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	0.	*	1	1205	146	447.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	0.	*	1	1210	147	569.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	0.	*	1	1215	148	721.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	0.	*	1	1220	149	886.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	0.	*	1	1225	150	1071.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2877.	13.50	(CFS)	876.	219.	211.	211.
		(INCHES)	1.113	1.113	1.113	1.113
		(AC-FT)	434.	434.	434.	434.

CUMULATIVE AREA = 7.32 SQ MI

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          **************
          *            *
639 KK    *    RTV-1L  *       Retrieve Divert 1K-D
          *            *
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640 DR RETRIEVE DIVERSION HYDROGRAPH
ISTAD 1K-D DIVERSION HYDROGRAPH IDENTIFICATION

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HYDROGRAPH AT STATION RTV-1L
TRANSPOSITION AREA .0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 3.96 SQ MI

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HYDROGRAPH AT STATION RTV-1L
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 3.96 SQ MI

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HYDROGRAPH AT STATION RTV-1L
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 3.96 SQ MI

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HYDROGRAPH AT STATION RTV-1L
TRANSPOSITION AREA 50.0 SQ MI

K FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 3.96 SQ MI

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HYDROGRAPH AT STATION RTV-1L
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 3.96 SQ MI

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HYDROGRAPH AT STATION RTV-1L
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.

(INCHES)	.000	.000	.000	.000
(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 3.96 SQ MI

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INTERPOLATED HYDROGRAPH AT RTV-1L

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

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

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 3.96 SQ MI

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641 KK    *        1L  *
          *            *
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Combining L1 & L2 & IK-D

643 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

HC HYDROGRAPH COMBINATION
ICOMP 3 NUMBER OF HYDROGRAPHS TO COMBINE

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

HYDROGRAPH AT STATION 1L
TRANSPOSITION AREA .0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
4913.	13.33	(CFS)	1477.	385.	371.	371.
		(INCHES)	1.272	1.326	1.326	1.326
		(AC-FT)	733.	764.	764.	764.

CUMULATIVE AREA = 10.80 SQ MI

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HYDROGRAPH AT STATION 1L
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
4778.	13.33	(CFS)	1436.	375.	361.	361.
		(INCHES)	1.236	1.290	1.290	1.290
		(AC-FT)	712.	743.	743.	743.

CUMULATIVE AREA = 10.80 SQ MI

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HYDROGRAPH AT STATION 1L
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
4558.	13.33	(CFS)	1369.	357.	344.	344.
		(INCHES)	1.178	1.230	1.230	1.230
		(AC-FT)	679.	709.	709.	709.

CUMULATIVE AREA = 10.80 SQ MI

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HYDROGRAPH AT STATION 1L
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
4066.	13.33	(CFS)	1217.	318.	307.	307.
		(INCHES)	1.048	1.096	1.096	1.096

(AC-FT)	603.	631.	631.	631.

CUMULATIVE AREA = 10.80 SQ MI

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HYDROGRAPH AT STATION 1L
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
3849.	13.42	(CFS)	1148.	301.	290.	290.
		(INCHES)	.988	1.035	1.035	1.035
		(AC-FT)	569.	596.	596.	596.

CUMULATIVE AREA = 10.80 SQ MI

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HYDROGRAPH AT STATION 1L
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
3398.	13.42	(CFS)	992.	261.	251.	251.
		(INCHES)	.854	.898	.898	.898
		(AC-FT)	492.	517.	517.	517.

CUMULATIVE AREA = 10.80 SQ MI

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INTERPOLATED HYDROGRAPH AT 1L

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	16.	*	1		1230	151	1227.	*	1		1845	226	38.
1		0005	2	0.	*	1		0620	77	17.	*	1		1235	152	1384.	*	1		1850	227	37.
1		0010	3	0.	*	1		0625	78	17.	*	1		1240	153	1634.	*	1		1855	228	37.
1		0015	4	0.	*	1		0630	79	17.	*	1		1245	154	2021.	*	1		1900	229	37.
1		0020	5	0.	*	1		0635	80	17.	*	1		1250	155	2576.	*	1		1905	230	36.
1		0025	6	0.	*	1		0640	81	17.	*	1		1255	156	3190.	*	1		1910	231	36.
1		0030	7	0.	*	1		0645	82	17.	*	1		1300	157	3739.	*	1		1915	232	36.
1		0035	8	0.	*	1		0650	83	17.	*	1		1305	158	4079.	*	1		1920	233	35.
1		0040	9	0.	*	1		0655	84	18.	*	1		1310	159	4311.	*	1		1925	234	35.
1		0045	10	0.	*	1		0700	85	18.	*	1		1315	160	4481.	*	1		1930	235	34.
1		0050	11	0.	*	1		0705	86	18.	*	1		1320	161	4535.	*	1		1935	236	34.
1		0055	12	0.	*	1		0710	87	18.	*	1		1325	162	4506.	*	1		1940	237	34.
1		0100	13	0.	*	1		0715	88	18.	*	1		1330	163	4412.	*	1		1945	238	33.
1		0105	14	0.	*	1		0720	89	18.	*	1		1335	164	4260.	*	1		1950	239	33.
1		0110	15	0.	*	1		0725	90	18.	*	1		1340	165	4028.	*	1		1955	240	32.
1		0115	16	0.	*	1		0730	91	19.	*	1		1345	166	3706.	*	1		2000	241	32.
1		0120	17	0.	*	1		0735	92	19.	*	1		1350	167	3407.	*	1		2005	242	31.
1		0125	18	0.	*	1		0740	93	19.	*	1		1355	168	3145.	*	1		2010	243	31.
1		0130	19	0.	*	1		0745	94	19.	*	1		1400	169	2914.	*	1		2015	244	31.

1	0135	20	0.	*	1	0750	95	19.	*	1	1405	170	2707.	*	1	2020	245	30.
1	0140	21	0.	*	1	0755	96	19.	*	1	1410	171	2507.	*	1	2025	246	30.
1	0145	22	0.	*	1	0800	97	20.	*	1	1415	172	2312.	*	1	2030	247	29.
1	0150	23	0.	*	1	0805	98	20.	*	1	1420	173	2129.	*	1	2035	248	29.
1	0155	24	0.	*	1	0810	99	20.	*	1	1425	174	1967.	*	1	2040	249	29.
1	0200	25	0.	*	1	0815	100	20.	*	1	1430	175	1811.	*	1	2045	250	28.
1	0205	26	0.	*	1	0820	101	20.	*	1	1435	176	1642.	*	1	2050	251	28.
1	0210	27	0.	*	1	0825	102	20.	*	1	1440	177	1479.	*	1	2055	252	28.
1	0215	28	1.	*	1	0830	103	21.	*	1	1445	178	1301.	*	1	2100	253	27.
1	0220	29	1.	*	1	0835	104	21.	*	1	1450	179	1137.	*	1	2105	254	27.
1	0225	30	1.	*	1	0840	105	21.	*	1	1455	180	991.	*	1	2110	255	26.
1	0230	31	1.	*	1	0845	106	21.	*	1	1500	181	870.	*	1	2115	256	26.
1	0235	32	1.	*	1	0850	107	21.	*	1	1505	182	790.	*	1	2120	257	26.
1	0240	33	2.	*	1	0855	108	21.	*	1	1510	183	718.	*	1	2125	258	25.
1	0245	34	2.	*	1	0900	109	22.	*	1	1515	184	666.	*	1	2130	259	25.
1	0250	35	2.	*	1	0905	110	22.	*	1	1520	185	614.	*	1	2135	260	25.
1	0255	36	3.	*	1	0910	111	22.	*	1	1525	186	563.	*	1	2140	261	25.
1	0300	37	3.	*	1	0915	112	22.	*	1	1530	187	517.	*	1	2145	262	24.
1	0305	38	3.	*	1	0920	113	22.	*	1	1535	188	466.	*	1	2150	263	24.
1	0310	39	4.	*	1	0925	114	23.	*	1	1540	189	402.	*	1	2155	264	24.
1	0315	40	4.	*	1	0930	115	23.	*	1	1545	190	361.	*	1	2200	265	23.
1	0320	41	5.	*	1	0935	116	23.	*	1	1550	191	321.	*	1	2205	266	23.
1	0325	42	5.	*	1	0940	117	23.	*	1	1555	192	282.	*	1	2210	267	23.
1	0330	43	6.	*	1	0945	118	24.	*	1	1600	193	245.	*	1	2215	268	23.
1	0335	44	6.	*	1	0950	119	24.	*	1	1605	194	218.	*	1	2220	269	23.
1	0340	45	7.	*	1	0955	120	24.	*	1	1610	195	212.	*	1	2225	270	22.
1	0345	46	7.	*	1	1000	121	24.	*	1	1615	196	207.	*	1	2230	271	22.
1	0350	47	8.	*	1	1005	122	25.	*	1	1620	197	200.	*	1	2235	272	22.
1	0355	48	8.	*	1	1010	123	25.	*	1	1625	198	194.	*	1	2240	273	22.
1	0400	49	9.	*	1	1015	124	25.	*	1	1630	199	187.	*	1	2245	274	21.
1	0405	50	9.	*	1	1020	125	26.	*	1	1635	200	181.	*	1	2250	275	21.
1	0410	51	10.	*	1	1025	126	26.	*	1	1640	201	174.	*	1	2255	276	21.
1	0415	52	10.	*	1	1030	127	26.	*	1	1645	202	167.	*	1	2300	277	21.
1	0420	53	10.	*	1	1035	128	27.	*	1	1650	203	161.	*	1	2305	278	21.
1	0425	54	11.	*	1	1040	129	27.	*	1	1655	204	155.	*	1	2310	279	20.
1	0430	55	11.	*	1	1045	130	27.	*	1	1700	205	137.	*	1	2315	280	20.
1	0435	56	12.	*	1	1050	131	28.	*	1	1705	206	120.	*	1	2320	281	20.
1	0440	57	12.	*	1	1055	132	28.	*	1	1710	207	102.	*	1	2325	282	20.
1	0445	58	12.	*	1	1100	133	28.	*	1	1715	208	86.	*	1	2330	283	20.
1	0450	59	13.	*	1	1105	134	29.	*	1	1720	209	69.	*	1	2335	284	20.
1	0455	60	13.	*	1	1110	135	29.	*	1	1725	210	53.	*	1	2340	285	19.
1	0500	61	13.	*	1	1115	136	30.	*	1	1730	211	50.	*	1	2345	286	19.
1	0505	62	14.	*	1	1120	137	30.	*	1	1735	212	48.	*	1	2350	287	19.
1	0510	63	14.	*	1	1125	138	31.	*	1	1740	213	46.	*	1	2355	288	19.
1	0515	64	14.	*	1	1130	139	32.	*	1	1745	214	44.	*	2	0000	289	19.
1	0520	65	14.	*	1	1135	140	72.	*	1	1750	215	43.	*	2	0005	290	19.
1	0525	66	15.	*	1	1140	141	112.	*	1	1755	216	42.	*	2	0010	291	19.
1	0530	67	15.	*	1	1145	142	154.	*	1	1800	217	41.	*	2	0015	292	18.
1	0535	68	15.	*	1	1150	143	197.	*	1	1805	218	40.	*	2	0020	293	18.
1	0540	69	15.	*	1	1155	144	241.	*	1	1810	219	39.	*	2	0025	294	18.
1	0545	70	15.	*	1	1200	145	374.	*	1	1815	220	39.	*	2	0030	295	18.
1	0550	71	16.	*	1	1205	146	479.	*	1	1820	221	39.	*	2	0035	296	18.
1	0555	72	16.	*	1	1210	147	601.	*	1	1825	222	39.	*	2	0040	297	18.
1	0600	73	16.	*	1	1215	148	752.	*	1	1830	223	38.	*	2	0045	298	18.
1	0605	74	16.	*	1	1220	149	917.	*	1	1835	224	38.	*	2	0050	299	18.
1	0610	75	16.	*	1	1225	150	1107.	*	1	1840	225	38.	*	2	0055	300	17.
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PEAK FLOW TIME MAXIMUM AVERAGE FLOW

(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
4535.	13.33	(CFS)	1361.	355.	342.	342.
		(INCHES)	1.172	1.224	1.224	1.224
		(AC-FT)	675.	705.	705.	705.

CUMULATIVE AREA = 10.80 SQ MI

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645 KK    *   DIV-1L   *      Divert 1L-D
          *            *
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DT DIVERSION
ISTAD 1L-D DIVERSION HYDROGRAPH IDENTIFICATION

DI	INFLOW	6842.00	6967.00	7130.00	7361.00	7585.00	7889.00
DQ	DIVERTED FLOW	.00	21.00	96.00	251.00	418.00	670.00

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DIVERSION HYDROGRAPH 1L-D
TRANSPOSITION AREA .0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 10.80 SQ MI

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

HYDROGRAPH AT STATION DIV-1L
TRANSPOSITION AREA .0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
4913.	13.33	(CFS)	1477.	385.	371.	371.
		(INCHES)	1.272	1.326	1.326	1.326
		(AC-FT)	733.	764.	764.	764.

CUMULATIVE AREA = 10.80 SQ MI

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

DIVERSION HYDROGRAPH 1L-D
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 10.80 SQ MI

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

HYDROGRAPH AT STATION DIV-1L
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
4778.	13.33	(CFS)	1436.	375.	361.	361.
		(INCHES)	1.236	1.290	1.290	1.290
		(AC-FT)	712.	743.	743.	743.

CUMULATIVE AREA = 10.80 SQ MI

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

DIVERSION HYDROGRAPH 1L-D
TRANSPOSITION AREA 10.0 SQ MI

K FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 10.80 SQ MI

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

HYDROGRAPH AT STATION DIV-1L
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
4558.	13.33	(CFS)	1369.	357.	344.	344.
		(INCHES)	1.178	1.230	1.230	1.230
		(AC-FT)	679.	709.	709.	709.

CUMULATIVE AREA = 10.80 SQ MI

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

DIVERSION HYDROGRAPH 1L-D
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.

(INCHES)	.000	.000	.000	.000
(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 10.80 SQ MI

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

HYDROGRAPH AT STATION DIV-1L
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
4066.	13.33	(CFS)	1217.	318.	307.	307.
		(INCHES)	1.048	1.096	1.096	1.096
		(AC-FT)	603.	631.	631.	631.

CUMULATIVE AREA = 10.80 SQ MI

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

DIVERSION HYDROGRAPH 1L-D
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 10.80 SQ MI

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

HYDROGRAPH AT STATION DIV-1L
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
3849.	13.42	(CFS)	1148.	301.	290.	290.
		(INCHES)	.988	1.035	1.035	1.035
		(AC-FT)	569.	596.	596.	596.

CUMULATIVE AREA = 10.80 SQ MI

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

DIVERSION HYDROGRAPH 1L-D
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 10.80 SQ MI

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

HYDROGRAPH AT STATION DIV-1L
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
3398.	13.42	(CFS)	992.	261.	251.	251.
		(INCHES)	.854	.898	.898	.898
		(AC-FT)	492.	517.	517.	517.

CUMULATIVE AREA = 10.80 SQ MI

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INTERPOLATED DIVERSION HYDROGRAPH AT 1L-D

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

1	0300	37	0.	*	1	0915	112	0.	*	1	1530	187	0.	*	1	2145	262	0.
1	0305	38	0.	*	1	0920	113	0.	*	1	1535	188	0.	*	1	2150	263	0.
1	0310	39	0.	*	1	0925	114	0.	*	1	1540	189	0.	*	1	2155	264	0.
1	0315	40	0.	*	1	0930	115	0.	*	1	1545	190	0.	*	1	2200	265	0.
1	0320	41	0.	*	1	0935	116	0.	*	1	1550	191	0.	*	1	2205	266	0.
1	0325	42	0.	*	1	0940	117	0.	*	1	1555	192	0.	*	1	2210	267	0.
1	0330	43	0.	*	1	0945	118	0.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	0.	*	1	0950	119	0.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	0.	*	1	0955	120	0.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	0.	*	1	1000	121	0.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	0.	*	1	1005	122	0.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	0.	*	1	1010	123	0.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	0.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	0.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	0.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	0.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	0.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	0.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	0.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	0.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	0.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	0.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	0.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	0.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	0.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	0.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	0.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	0.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	0.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	0.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	0.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	0.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	0.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	0.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	0.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	0.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	0.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	0.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	0.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 10.80 SQ MI

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INTERPOLATED HYDROGRAPH AT DIV-1L

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
					*						*						*					
1		0000	1	0.	*	1		0615	76	16.	*	1		1230	151	1227.	*	1		1845	226	38.

1	0005	2	0.	*	1	0620	77	17.	*	1	1235	152	1384.	*	1	1850	227	37.
1	0010	3	0.	*	1	0625	78	17.	*	1	1240	153	1634.	*	1	1855	228	37.
1	0015	4	0.	*	1	0630	79	17.	*	1	1245	154	2021.	*	1	1900	229	37.
1	0020	5	0.	*	1	0635	80	17.	*	1	1250	155	2576.	*	1	1905	230	36.
1	0025	6	0.	*	1	0640	81	17.	*	1	1255	156	3190.	*	1	1910	231	36.
1	0030	7	0.	*	1	0645	82	17.	*	1	1300	157	3739.	*	1	1915	232	36.
1	0035	8	0.	*	1	0650	83	17.	*	1	1305	158	4079.	*	1	1920	233	35.
1	0040	9	0.	*	1	0655	84	18.	*	1	1310	159	4311.	*	1	1925	234	35.
1	0045	10	0.	*	1	0700	85	18.	*	1	1315	160	4481.	*	1	1930	235	34.
1	0050	11	0.	*	1	0705	86	18.	*	1	1320	161	4535.	*	1	1935	236	34.
1	0055	12	0.	*	1	0710	87	18.	*	1	1325	162	4506.	*	1	1940	237	34.
1	0100	13	0.	*	1	0715	88	18.	*	1	1330	163	4412.	*	1	1945	238	33.
1	0105	14	0.	*	1	0720	89	18.	*	1	1335	164	4260.	*	1	1950	239	33.
1	0110	15	0.	*	1	0725	90	18.	*	1	1340	165	4028.	*	1	1955	240	32.
1	0115	16	0.	*	1	0730	91	19.	*	1	1345	166	3706.	*	1	2000	241	32.
1	0120	17	0.	*	1	0735	92	19.	*	1	1350	167	3407.	*	1	2005	242	31.
1	0125	18	0.	*	1	0740	93	19.	*	1	1355	168	3145.	*	1	2010	243	31.
1	0130	19	0.	*	1	0745	94	19.	*	1	1400	169	2914.	*	1	2015	244	31.
1	0135	20	0.	*	1	0750	95	19.	*	1	1405	170	2707.	*	1	2020	245	30.
1	0140	21	0.	*	1	0755	96	19.	*	1	1410	171	2507.	*	1	2025	246	30.
1	0145	22	0.	*	1	0800	97	20.	*	1	1415	172	2312.	*	1	2030	247	29.
1	0150	23	0.	*	1	0805	98	20.	*	1	1420	173	2129.	*	1	2035	248	29.
1	0155	24	0.	*	1	0810	99	20.	*	1	1425	174	1967.	*	1	2040	249	29.
1	0200	25	0.	*	1	0815	100	20.	*	1	1430	175	1811.	*	1	2045	250	28.
1	0205	26	0.	*	1	0820	101	20.	*	1	1435	176	1642.	*	1	2050	251	28.
1	0210	27	0.	*	1	0825	102	20.	*	1	1440	177	1479.	*	1	2055	252	28.
1	0215	28	1.	*	1	0830	103	21.	*	1	1445	178	1301.	*	1	2100	253	27.
1	0220	29	1.	*	1	0835	104	21.	*	1	1450	179	1137.	*	1	2105	254	27.
1	0225	30	1.	*	1	0840	105	21.	*	1	1455	180	991.	*	1	2110	255	26.
1	0230	31	1.	*	1	0845	106	21.	*	1	1500	181	870.	*	1	2115	256	26.
1	0235	32	1.	*	1	0850	107	21.	*	1	1505	182	790.	*	1	2120	257	26.
1	0240	33	2.	*	1	0855	108	21.	*	1	1510	183	718.	*	1	2125	258	25.
1	0245	34	2.	*	1	0900	109	22.	*	1	1515	184	666.	*	1	2130	259	25.
1	0250	35	2.	*	1	0905	110	22.	*	1	1520	185	614.	*	1	2135	260	25.
1	0255	36	3.	*	1	0910	111	22.	*	1	1525	186	563.	*	1	2140	261	25.
1	0300	37	3.	*	1	0915	112	22.	*	1	1530	187	517.	*	1	2145	262	24.
1	0305	38	3.	*	1	0920	113	22.	*	1	1535	188	466.	*	1	2150	263	24.
1	0310	39	4.	*	1	0925	114	23.	*	1	1540	189	402.	*	1	2155	264	24.
1	0315	40	4.	*	1	0930	115	23.	*	1	1545	190	361.	*	1	2200	265	23.
1	0320	41	5.	*	1	0935	116	23.	*	1	1550	191	321.	*	1	2205	266	23.
1	0325	42	5.	*	1	0940	117	23.	*	1	1555	192	282.	*	1	2210	267	23.
1	0330	43	6.	*	1	0945	118	24.	*	1	1600	193	245.	*	1	2215	268	23.
1	0335	44	6.	*	1	0950	119	24.	*	1	1605	194	218.	*	1	2220	269	23.
1	0340	45	7.	*	1	0955	120	24.	*	1	1610	195	212.	*	1	2225	270	22.
1	0345	46	7.	*	1	1000	121	24.	*	1	1615	196	207.	*	1	2230	271	22.
1	0350	47	8.	*	1	1005	122	25.	*	1	1620	197	200.	*	1	2235	272	22.
1	0355	48	8.	*	1	1010	123	25.	*	1	1625	198	194.	*	1	2240	273	22.
1	0400	49	9.	*	1	1015	124	25.	*	1	1630	199	187.	*	1	2245	274	21.
1	0405	50	9.	*	1	1020	125	26.	*	1	1635	200	181.	*	1	2250	275	21.
1	0410	51	10.	*	1	1025	126	26.	*	1	1640	201	174.	*	1	2255	276	21.
1	0415	52	10.	*	1	1030	127	26.	*	1	1645	202	167.	*	1	2300	277	21.
1	0420	53	10.	*	1	1035	128	27.	*	1	1650	203	161.	*	1	2305	278	21.
1	0425	54	11.	*	1	1040	129	27.	*	1	1655	204	155.	*	1	2310	279	20.
1	0430	55	11.	*	1	1045	130	27.	*	1	1700	205	137.	*	1	2315	280	20.
1	0435	56	12.	*	1	1050	131	28.	*	1	1705	206	120.	*	1	2320	281	20.
1	0440	57	12.	*	1	1055	132	28.	*	1	1710	207	102.	*	1	2325	282	20.
1	0445	58	12.	*	1	1100	133	28.	*	1	1715	208	86.	*	1	2330	283	20.
1	0450	59	13.	*	1	1105	134	29.	*	1	1720	209	69.	*	1	2335	284	20.
1	0455	60	13.	*	1	1110	135	29.	*	1	1725	210	53.	*	1	2340	285	19.
1	0500	61	13.	*	1	1115	136	30.	*	1	1730	211	50.	*	1	2345	286	19.

1	0505	62	14.	*	1	1120	137	30.	*	1	1735	212	48.	*	1	2350	287	19.
1	0510	63	14.	*	1	1125	138	31.	*	1	1740	213	46.	*	1	2355	288	19.
1	0515	64	14.	*	1	1130	139	32.	*	1	1745	214	44.	*	2	0000	289	19.
1	0520	65	14.	*	1	1135	140	72.	*	1	1750	215	43.	*	2	0005	290	19.
1	0525	66	15.	*	1	1140	141	112.	*	1	1755	216	42.	*	2	0010	291	19.
1	0530	67	15.	*	1	1145	142	154.	*	1	1800	217	41.	*	2	0015	292	18.
1	0535	68	15.	*	1	1150	143	197.	*	1	1805	218	40.	*	2	0020	293	18.
1	0540	69	15.	*	1	1155	144	241.	*	1	1810	219	39.	*	2	0025	294	18.
1	0545	70	15.	*	1	1200	145	374.	*	1	1815	220	39.	*	2	0030	295	18.
1	0550	71	16.	*	1	1205	146	479.	*	1	1820	221	39.	*	2	0035	296	18.
1	0555	72	16.	*	1	1210	147	601.	*	1	1825	222	39.	*	2	0040	297	18.
1	0600	73	16.	*	1	1215	148	752.	*	1	1830	223	38.	*	2	0045	298	18.
1	0605	74	16.	*	1	1220	149	917.	*	1	1835	224	38.	*	2	0050	299	18.
1	0610	75	16.	*	1	1225	150	1107.	*	1	1840	225	38.	*	2	0055	300	17.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
4535.	13.33	(CFS)	1361.	355.	342.	342.
		(INCHES)	1.172	1.224	1.224	1.224
		(AC-FT)	675.	705.	705.	705.

CUMULATIVE AREA = 10.80 SQ MI

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          *            *
649 KK    *     1L-2L  *       Routing thru L3
          *            *
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650 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

HYDROGRAPH ROUTING DATA

651 RS STORAGE ROUTING

NSTPS	13	NUMBER OF SUBREACHES
ITYP	FLOW	TYPE OF INITIAL CONDITION
RSVRIC	.00	INITIAL CONDITION
X	.00	WORKING R AND D COEFFICIENT

652 RC NORMAL DEPTH CHANNEL

ANL	.048	LEFT OVERBANK N-VALUE
ANCH	.070	MAIN CHANNEL N-VALUE
ANR	.042	RIGHT OVERBANK N-VALUE

RLNTH 17310. REACH LENGTH
SEL .0130 ENERGY SLOPE
ELMAX .0 MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

CROSS-SECTION DATA

		--- LEFT OVERBANK ---	+	------ MAIN CHANNEL -------	+	--- RIGHT OVERBANK ---			
654 RY	ELEVATION	16.00	12.00	11.30	10.00	10.00	11.30	12.00	16.00
653 RX	DISTANCE	.00	260.00	330.00	332.00	348.00	350.00	420.00	680.00

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COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	2.07	4.26	6.57	9.01	14.61	28.08	48.86	74.95	106.19
OUTFLOW	.00	5.70	18.20	35.99	58.55	95.74	181.72	351.17	613.57	976.40
ELEVATION	10.00	10.32	10.63	10.95	11.26	11.58	11.89	12.21	12.53	12.84
STORAGE	142.58	184.13	230.82	282.67	339.67	401.82	469.12	541.57	619.18	701.94
OUTFLOW	1450.73	2047.39	2776.85	3649.24	4674.38	5861.79	7220.74	8760.27	10489.18	12416.09
ELEVATION	13.16	13.47	13.79	14.11	14.42	14.74	15.05	15.37	15.68	16.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 10489. TO 12416.
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.)

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

HYDROGRAPH AT STATION 1L-2L
TRANSPOSITION AREA .0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
4683.	14.00	(CFS)	1471.	383.	369.	369.
		(INCHES)	1.266	1.319	1.319	1.319
		(AC-FT)	729.	759.	759.	759.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
26.	14.00	10.	3.	3.	3.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
14.42	14.00	12.86	11.13	11.09	11.09

CUMULATIVE AREA = 10.80 SQ MI

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

HYDROGRAPH AT STATION 1L-2L
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
4546.	14.08	(CFS)	1430.	372.	359.	359.
		(INCHES)	1.231	1.282	1.282	1.282
		(AC-FT)	709.	739.	739.	739.

PEAK STORAGE TIME MAXIMUM AVERAGE STORAGE

(AC-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
26.	14.08	10.	3.	3.	3.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
14.38	14.08	12.84	11.12	11.08	11.08

CUMULATIVE AREA = 10.80 SQ MI

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

HYDROGRAPH AT STATION 1L-2L
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
4340.	14.08	(CFS)	1363.	355.	342.	342.
		(INCHES)	1.173	1.223	1.223	1.223
		(AC-FT)	676.	704.	704.	704.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
25.	14.08	9.	3.	2.	2.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
14.32	14.08	12.81	11.11	11.07	11.07

CUMULATIVE AREA = 10.80 SQ MI

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

HYDROGRAPH AT STATION 1L-2L
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
3869.	14.08	(CFS)	1211.	316.	305.	305.
		(INCHES)	1.043	1.089	1.089	1.089
		(AC-FT)	601.	627.	627.	627.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
23.	14.08	9.	2.	2.	2.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
14.17	14.08	12.73	11.07	11.03	11.03

CUMULATIVE AREA = 10.80 SQ MI

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

HYDROGRAPH AT STATION 1L-2L
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW

(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
3640.	14.08	(CFS)	1143.	299.	288.	288.
		(INCHES)	.984	1.028	1.028	1.028
		(AC-FT)	567.	592.	592.	592.

PEAK STORAGE	TIME		MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)		6-HR	24-HR	72-HR	24.92-HR
22.	14.08		8.	2.	2.	2.

PEAK STAGE	TIME		MAXIMUM AVERAGE STAGE			
(FEET)	(HR)		6-HR	24-HR	72-HR	24.92-HR
14.10	14.08		12.69	11.05	11.01	11.01

CUMULATIVE AREA = 10.80 SQ MI

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

HYDROGRAPH AT STATION 1L-2L
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
3162.	14.17	(CFS)	988.	259.	249.	249.
		(INCHES)	.851	.891	.891	.891
		(AC-FT)	490.	513.	513.	513.

PEAK STORAGE	TIME		MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)		6-HR	24-HR	72-HR	24.92-HR
20.	14.17		7.	2.	2.	2.

PEAK STAGE	TIME		MAXIMUM AVERAGE STAGE			
(FEET)	(HR)		6-HR	24-HR	72-HR	24.92-HR
13.93	14.17		12.59	11.00	10.97	10.97

CUMULATIVE AREA = 10.80 SQ MI

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INTERPOLATED HYDROGRAPH AT 1L-2L

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	2.	*	1		1230	151	36.	*	1		1845	226	136.
1		0005	2	0.	*	1		0620	77	2.	*	1		1235	152	42.	*	1		1850	227	127.
1		0010	3	0.	*	1		0625	78	3.	*	1		1240	153	49.	*	1		1855	228	117.
1		0015	4	0.	*	1		0630	79	3.	*	1		1245	154	57.	*	1		1900	229	108.
1		0020	5	0.	*	1		0635	80	4.	*	1		1250	155	66.	*	1		1905	230	98.
1		0025	6	0.	*	1		0640	81	5.	*	1		1255	156	80.	*	1		1910	231	88.
1		0030	7	0.	*	1		0645	82	7.	*	1		1300	157	107.	*	1		1915	232	79.
1		0035	8	0.	*	1		0650	83	8.	*	1		1305	158	160.	*	1		1920	233	70.
1		0040	9	0.	*	1		0655	84	10.	*	1		1310	159	279.	*	1		1925	234	62.
1		0045	10	0.	*	1		0700	85	11.	*	1		1315	160	497.	*	1		1930	235	54.
1		0050	11	0.	*	1		0705	86	11.	*	1		1320	161	832.	*	1		1935	236	48.
1		0055	12	0.	*	1		0710	87	12.	*	1		1325	162	1280.	*	1		1940	237	44.
1		0100	13	0.	*	1		0715	88	13.	*	1		1330	163	1826.	*	1		1945	238	42.
1		0105	14	0.	*	1		0720	89	13.	*	1		1335	164	2433.	*	1		1950	239	40.

1	0110	15	0.	*	1	0725	90	14.	*	1	1340	165	3035.	*	1	1955	240	39.
1	0115	16	0.	*	1	0730	91	14.	*	1	1345	166	3555.	*	1	2000	241	38.
1	0120	17	0.	*	1	0735	92	14.	*	1	1350	167	3950.	*	1	2005	242	38.
1	0125	18	0.	*	1	0740	93	15.	*	1	1355	168	4191.	*	1	2010	243	37.
1	0130	19	0.	*	1	0745	94	15.	*	1	1400	169	4304.	*	1	2015	244	37.
1	0135	20	0.	*	1	0750	95	15.	*	1	1405	170	4318.	*	1	2020	245	37.
1	0140	21	0.	*	1	0755	96	15.	*	1	1410	171	4249.	*	1	2025	246	36.
1	0145	22	0.	*	1	0800	97	15.	*	1	1415	172	4116.	*	1	2030	247	36.
1	0150	23	0.	*	1	0805	98	16.	*	1	1420	173	3935.	*	1	2035	248	36.
1	0155	24	0.	*	1	0810	99	16.	*	1	1425	174	3730.	*	1	2040	249	36.
1	0200	25	0.	*	1	0815	100	16.	*	1	1430	175	3523.	*	1	2045	250	35.
1	0205	26	0.	*	1	0820	101	16.	*	1	1435	176	3315.	*	1	2050	251	35.
1	0210	27	0.	*	1	0825	102	16.	*	1	1440	177	3103.	*	1	2055	252	35.
1	0215	28	0.	*	1	0830	103	17.	*	1	1445	178	2902.	*	1	2100	253	34.
1	0220	29	0.	*	1	0835	104	17.	*	1	1450	179	2720.	*	1	2105	254	34.
1	0225	30	0.	*	1	0840	105	17.	*	1	1455	180	2554.	*	1	2110	255	34.
1	0230	31	0.	*	1	0845	106	17.	*	1	1500	181	2386.	*	1	2115	256	33.
1	0235	32	0.	*	1	0850	107	17.	*	1	1505	182	2224.	*	1	2120	257	33.
1	0240	33	0.	*	1	0855	108	17.	*	1	1510	183	2073.	*	1	2125	258	33.
1	0245	34	0.	*	1	0900	109	18.	*	1	1515	184	1937.	*	1	2130	259	32.
1	0250	35	0.	*	1	0905	110	18.	*	1	1520	185	1800.	*	1	2135	260	32.
1	0255	36	0.	*	1	0910	111	18.	*	1	1525	186	1662.	*	1	2140	261	31.
1	0300	37	0.	*	1	0915	112	19.	*	1	1530	187	1529.	*	1	2145	262	31.
1	0305	38	0.	*	1	0920	113	19.	*	1	1535	188	1410.	*	1	2150	263	31.
1	0310	39	0.	*	1	0925	114	19.	*	1	1540	189	1301.	*	1	2155	264	30.
1	0315	40	0.	*	1	0930	115	19.	*	1	1545	190	1193.	*	1	2200	265	30.
1	0320	41	0.	*	1	0935	116	19.	*	1	1550	191	1092.	*	1	2205	266	29.
1	0325	42	0.	*	1	0940	117	20.	*	1	1555	192	1004.	*	1	2210	267	29.
1	0330	43	0.	*	1	0945	118	20.	*	1	1600	193	931.	*	1	2215	268	29.
1	0335	44	0.	*	1	0950	119	20.	*	1	1605	194	864.	*	1	2220	269	28.
1	0340	45	0.	*	1	0955	120	20.	*	1	1610	195	799.	*	1	2225	270	28.
1	0345	46	0.	*	1	1000	121	20.	*	1	1615	196	738.	*	1	2230	271	28.
1	0350	47	0.	*	1	1005	122	21.	*	1	1620	197	684.	*	1	2235	272	27.
1	0355	48	0.	*	1	1010	123	21.	*	1	1625	198	637.	*	1	2240	273	27.
1	0400	49	0.	*	1	1015	124	21.	*	1	1630	199	596.	*	1	2245	274	27.
1	0405	50	0.	*	1	1020	125	21.	*	1	1635	200	559.	*	1	2250	275	26.
1	0410	51	0.	*	1	1025	126	21.	*	1	1640	201	521.	*	1	2255	276	26.
1	0415	52	0.	*	1	1030	127	22.	*	1	1645	202	484.	*	1	2300	277	26.
1	0420	53	0.	*	1	1035	128	22.	*	1	1650	203	448.	*	1	2305	278	25.
1	0425	54	0.	*	1	1040	129	22.	*	1	1655	204	415.	*	1	2310	279	25.
1	0430	55	0.	*	1	1045	130	22.	*	1	1700	205	386.	*	1	2315	280	25.
1	0435	56	0.	*	1	1050	131	22.	*	1	1705	206	361.	*	1	2320	281	24.
1	0440	57	0.	*	1	1055	132	23.	*	1	1710	207	342.	*	1	2325	282	24.
1	0445	58	0.	*	1	1100	133	23.	*	1	1715	208	325.	*	1	2330	283	24.
1	0450	59	0.	*	1	1105	134	23.	*	1	1720	209	307.	*	1	2335	284	24.
1	0455	60	0.	*	1	1110	135	23.	*	1	1725	210	290.	*	1	2340	285	23.
1	0500	61	0.	*	1	1115	136	23.	*	1	1730	211	274.	*	1	2345	286	23.
1	0505	62	0.	*	1	1120	137	24.	*	1	1735	212	258.	*	1	2350	287	23.
1	0510	63	0.	*	1	1125	138	24.	*	1	1740	213	244.	*	1	2355	288	23.
1	0515	64	0.	*	1	1130	139	24.	*	1	1745	214	231.	*	2	0000	289	22.
1	0520	65	0.	*	1	1135	140	25.	*	1	1750	215	219.	*	2	0005	290	22.
1	0525	66	0.	*	1	1140	141	25.	*	1	1755	216	209.	*	2	0010	291	22.
1	0530	67	0.	*	1	1145	142	25.	*	1	1800	217	200.	*	2	0015	292	22.
1	0535	68	0.	*	1	1150	143	25.	*	1	1805	218	192.	*	2	0020	293	21.
1	0540	69	1.	*	1	1155	144	26.	*	1	1810	219	185.	*	2	0025	294	21.
1	0545	70	1.	*	1	1200	145	26.	*	1	1815	220	179.	*	2	0030	295	21.
1	0550	71	1.	*	1	1205	146	27.	*	1	1820	221	174.	*	2	0035	296	21.
1	0555	72	1.	*	1	1210	147	27.	*	1	1825	222	168.	*	2	0040	297	21.
1	0600	73	1.	*	1	1215	148	28.	*	1	1830	223	161.	*	2	0045	298	20.
1	0605	74	1.	*	1	1220	149	29.	*	1	1835	224	153.	*	2	0050	299	20.

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   1     0610   75        2.   *    1     1225  150        32.   *    1     1840  225        145.   *    2     0055  300        20.
                                *                                   *                                  *
*****************************************************************************************************************************************************

  PEAK FLOW     TIME                                MAXIMUM AVERAGE FLOW
    (CFS)       (HR)                    6-HR         24-HR        72-HR      24.92-HR
    4318.      14.08          (CFS)      1355.         353.         340.         340.
                              (INCHES)   1.167        1.216        1.216        1.216
                              (AC-FT)     672.         701.         701.         701.

                            CUMULATIVE AREA =   10.80 SQ MI



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          **************
          *            *
655 KK    *        L3  *
          *            *
          **************
                      BASIN L3
                       THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
                       L=      3.3  Lca=      1.6   S=   69.0  Kn= .055  LAG=  67.0
                       PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN

660 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL          0.  HYDROGRAPH PLOT SCALE
                      IPNCH          0  PUNCH COMPUTED HYDROGRAPH
                       IOUT         22  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


               SUBBASIN RUNOFF DATA

661 BA          SUBBASIN CHARACTERISTICS
                      TAREA       6.85  SUBBASIN AREA

662 LG          GREEN AND AMPT LOSS RATE
                      STRTL        .23  STARTING LOSS
                        DTH        .30  MOISTURE DEFICIT
                       PSIF       4.19  WETTING FRONT SUCTION
                      XKSAT        .40  HYDRAULIC CONDUCTIVITY
                      RTIMP        .00  PERCENT IMPERVIOUS AREA

661 UI          INPUT UNITGRAPH,  40 ORDINATES,  VOLUME = 1.00
                   344.0     344.0     344.0    1066.0    1362.0    1634.0    1848.0    2030.0    2265.0    2560.0
                  2913.0    3720.0    4385.0    4003.0    3399.0    3011.0    2729.0    2413.0    2131.0    1888.0
                  1665.0    1421.0    1052.0     709.0     609.0     566.0     539.0     344.0     344.0     335.0
                   106.0     106.0     106.0     106.0     106.0     106.0     106.0     106.0     106.0     106.0

                                                        ***

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HYDROGRAPH AT STATION L3
TRANSPOSITION AREA .0 SQ MI

TOTAL RAINFALL = 4.20, TOTAL LOSS = 3.02, TOTAL EXCESS = 1.18

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
4215.	12.83	(CFS)	869.	217.	209.	209.
		(INCHES)	1.179	1.179	1.179	1.179
		(AC-FT)	431.	431.	431.	431.

CUMULATIVE AREA = 6.85 SQ MI

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

HYDROGRAPH AT STATION L3
TRANSPOSITION AREA 5.0 SQ MI

TOTAL RAINFALL = 4.12, TOTAL LOSS = 2.97, TOTAL EXCESS = 1.15

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
4092.	12.83	(CFS)	843.	211.	203.	203.
		(INCHES)	1.145	1.145	1.145	1.145
		(AC-FT)	418.	418.	418.	418.

CUMULATIVE AREA = 6.85 SQ MI

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

HYDROGRAPH AT STATION L3
TRANSPOSITION AREA 10.0 SQ MI

TOTAL RAINFALL = 3.99, TOTAL LOSS = 2.90, TOTAL EXCESS = 1.09

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
3892.	12.83	(CFS)	802.	201.	193.	193.
		(INCHES)	1.089	1.089	1.089	1.089
		(AC-FT)	398.	398.	398.	398.

CUMULATIVE AREA = 6.85 SQ MI

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

HYDROGRAPH AT STATION L3
TRANSPOSITION AREA 50.0 SQ MI

TOTAL RAINFALL = 3.70, TOTAL LOSS = 2.74, TOTAL EXCESS = .96

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
3440.	12.83	(CFS)	709.	177.	171.	171.
		(INCHES)	.962	.962	.962	.962
		(AC-FT)	351.	351.	351.	351.

CUMULATIVE AREA = 6.85 SQ MI

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

HYDROGRAPH AT STATION L3
TRANSPOSITION AREA 100.0 SQ MI

TOTAL RAINFALL = 3.57, TOTAL LOSS = 2.67, TOTAL EXCESS = .90

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
3236.	12.83	(CFS)	666.	167.	160.	160.
		(INCHES)	.905	.905	.905	.905
		(AC-FT)	330.	330.	330.	330.

CUMULATIVE AREA = 6.85 SQ MI

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

HYDROGRAPH AT STATION L3
TRANSPOSITION AREA 500.0 SQ MI

TOTAL RAINFALL = 3.28, TOTAL LOSS = 2.51, TOTAL EXCESS = .77

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2772.	12.83	(CFS)	571.	143.	137.	137.
		(INCHES)	.775	.775	.775	.775
		(AC-FT)	283.	283.	283.	283.

CUMULATIVE AREA = 6.85 SQ MI

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INTERPOLATED HYDROGRAPH AT L3

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	0.	1		1230	151	2847.	1		1845	226	0.
1		0005	2	0.	1		0620	77	0.	1		1235	152	3315.	1		1850	227	0.
1		0010	3	0.	1		0625	78	0.	1		1240	153	3686.	1		1855	228	0.
1		0015	4	0.	1		0630	79	0.	1		1245	154	3907.	1		1900	229	0.
1		0020	5	0.	1		0635	80	0.	1		1250	155	4001.	1		1905	230	0.
1		0025	6	0.	1		0640	81	0.	1		1255	156	3977.	1		1910	231	0.
1		0030	7	0.	1		0645	82	0.	1		1300	157	3737.	1		1915	232	0.
1		0035	8	0.	1		0650	83	0.	1		1305	158	3315.	1		1920	233	0.
1		0040	9	0.	1		0655	84	0.	1		1310	159	2918.	1		1925	234	0.
1		0045	10	0.	1		0700	85	0.	1		1315	160	2593.	1		1930	235	0.
1		0050	11	0.	1		0705	86	0.	1		1320	161	2296.	1		1935	236	0.
1		0055	12	0.	1		0710	87	0.	1		1325	162	1983.	1		1940	237	0.
1		0100	13	0.	1		0715	88	0.	1		1330	163	1666.	1		1945	238	0.
1		0105	14	0.	1		0720	89	0.	1		1335	164	1382.	1		1950	239	0.
1		0110	15	0.	1		0725	90	0.	1		1340	165	1133.	1		1955	240	0.
1		0115	16	0.	1		0730	91	0.	1		1345	166	920.	1		2000	241	0.
1		0120	17	0.	1		0735	92	0.	1		1350	167	717.	1		2005	242	0.

1	0125	18	0.	*	1	0740	93	0.	*	1	1355	168	584.	*	1	2010	243	0.
1	0130	19	0.	*	1	0745	94	0.	*	1	1400	169	513.	*	1	2015	244	0.
1	0135	20	0.	*	1	0750	95	0.	*	1	1405	170	420.	*	1	2020	245	0.
1	0140	21	0.	*	1	0755	96	0.	*	1	1410	171	334.	*	1	2025	246	0.
1	0145	22	0.	*	1	0800	97	0.	*	1	1415	172	253.	*	1	2030	247	0.
1	0150	23	0.	*	1	0805	98	0.	*	1	1420	173	208.	*	1	2035	248	0.
1	0155	24	0.	*	1	0810	99	0.	*	1	1425	174	163.	*	1	2040	249	0.
1	0200	25	0.	*	1	0815	100	0.	*	1	1430	175	119.	*	1	2045	250	0.
1	0205	26	0.	*	1	0820	101	0.	*	1	1435	176	119.	*	1	2050	251	0.
1	0210	27	0.	*	1	0825	102	0.	*	1	1440	177	119.	*	1	2055	252	0.
1	0215	28	0.	*	1	0830	103	0.	*	1	1445	178	119.	*	1	2100	253	0.
1	0220	29	0.	*	1	0835	104	0.	*	1	1450	179	119.	*	1	2105	254	0.
1	0225	30	0.	*	1	0840	105	0.	*	1	1455	180	100.	*	1	2110	255	0.
1	0230	31	0.	*	1	0845	106	0.	*	1	1500	181	80.	*	1	2115	256	0.
1	0235	32	0.	*	1	0850	107	0.	*	1	1505	182	60.	*	1	2120	257	0.
1	0240	33	0.	*	1	0855	108	0.	*	1	1510	183	40.	*	1	2125	258	0.
1	0245	34	0.	*	1	0900	109	0.	*	1	1515	184	20.	*	1	2130	259	0.
1	0250	35	0.	*	1	0905	110	0.	*	1	1520	185	0.	*	1	2135	260	0.
1	0255	36	0.	*	1	0910	111	0.	*	1	1525	186	0.	*	1	2140	261	0.
1	0300	37	0.	*	1	0915	112	0.	*	1	1530	187	0.	*	1	2145	262	0.
1	0305	38	0.	*	1	0920	113	0.	*	1	1535	188	0.	*	1	2150	263	0.
1	0310	39	0.	*	1	0925	114	0.	*	1	1540	189	0.	*	1	2155	264	0.
1	0315	40	0.	*	1	0930	115	0.	*	1	1545	190	0.	*	1	2200	265	0.
1	0320	41	0.	*	1	0935	116	0.	*	1	1550	191	0.	*	1	2205	266	0.
1	0325	42	0.	*	1	0940	117	0.	*	1	1555	192	0.	*	1	2210	267	0.
1	0330	43	0.	*	1	0945	118	0.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	0.	*	1	0950	119	0.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	0.	*	1	0955	120	0.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	0.	*	1	1000	121	0.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	0.	*	1	1005	122	0.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	0.	*	1	1010	123	0.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	0.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	0.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	0.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	0.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	0.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	0.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	0.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	0.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	0.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	0.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	0.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	0.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	0.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	0.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	0.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	0.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	0.	*	1	1135	140	62.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	0.	*	1	1140	141	125.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	0.	*	1	1145	142	189.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	0.	*	1	1150	143	384.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	0.	*	1	1155	144	635.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	0.	*	1	1200	145	938.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	0.	*	1	1205	146	1218.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	0.	*	1	1210	147	1533.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	0.	*	1	1215	148	1895.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	0.	*	1	1220	149	2174.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	0.	*	1	1225	150	2462.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
4001.	12.83	(CFS)	825.	206.	199.	199.
		(INCHES)	1.119	1.119	1.119	1.119
		(AC-FT)	409.	409.	409.	409.

CUMULATIVE AREA = 6.85 SQ MI

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          *            *
669 KK    *        2L  *
          *            *
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Combining L1+L2 & L3

671 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

672 HC HYDROGRAPH COMBINATION

ICOMP	2	NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 2L
TRANSPOSITION AREA .0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
5223.	14.00	(CFS)	2308.	600.	578.	578.
		(INCHES)	1.216	1.264	1.264	1.264
		(AC-FT)	1144.	1190.	1190.	1190.

CUMULATIVE AREA = 17.65 SQ MI

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HYDROGRAPH AT STATION 2L
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
5071.	14.00	(CFS)	2242.	583.	562.	562.

(INCHES)	1.181	1.229	1.229	1.229
(AC-FT)	1112.	1157.	1157.	1157.

CUMULATIVE AREA = 17.65 SQ MI

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HYDROGRAPH AT STATION 2L
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
4828.	14.00	(CFS)	2134.	556.	535.	535.
		(INCHES)	1.124	1.171	1.171	1.171
		(AC-FT)	1058.	1102.	1102.	1102.

CUMULATIVE AREA = 17.65 SQ MI

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HYDROGRAPH AT STATION 2L
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
4261.	14.00	(CFS)	1892.	493.	475.	475.
		(INCHES)	.996	1.040	1.040	1.040
		(AC-FT)	938.	979.	979.	979.

CUMULATIVE AREA = 17.65 SQ MI

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HYDROGRAPH AT STATION 2L
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
3982.	14.08	(CFS)	1782.	465.	448.	448.
		(INCHES)	.939	.980	.980	.980
		(AC-FT)	883.	923.	923.	923.

CUMULATIVE AREA = 17.65 SQ MI

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HYDROGRAPH AT STATION 2L
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
3422.	14.08	(CFS)	1533.	402.	387.	387.
		(INCHES)	.808	.846	.846	.846
		(AC-FT)	760.	796.	796.	796.

CUMULATIVE AREA = 17.65 SQ MI

INTERPOLATED HYDROGRAPH AT 2L

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	2.	1		1230	151	2687.	1		1845	226	133.
1		0005	2	0.	1		0620	77	2.	1		1235	152	3129.	1		1850	227	124.
1		0010	3	0.	1		0625	78	3.	1		1240	153	3483.	1		1855	228	115.
1		0015	4	0.	1		0630	79	3.	1		1245	154	3698.	1		1900	229	105.
1		0020	5	0.	1		0635	80	4.	1		1250	155	3797.	1		1905	230	95.
1		0025	6	0.	1		0640	81	5.	1		1255	156	3789.	1		1910	231	86.
1		0030	7	0.	1		0645	82	6.	1		1300	157	3591.	1		1915	232	77.
1		0035	8	0.	1		0650	83	7.	1		1305	158	3244.	1		1920	233	68.
1		0040	9	0.	1		0655	84	9.	1		1310	159	2976.	1		1925	234	60.
1		0045	10	0.	1		0700	85	10.	1		1315	160	2868.	1		1930	235	52.
1		0050	11	0.	1		0705	86	11.	1		1320	161	2898.	1		1935	236	47.
1		0055	12	0.	1		0710	87	12.	1		1325	162	3024.	1		1940	237	43.
1		0100	13	0.	1		0715	88	12.	1		1330	163	3241.	1		1945	238	41.
1		0105	14	0.	1		0720	89	13.	1		1335	164	3553.	1		1950	239	40.
1		0110	15	0.	1		0725	90	13.	1		1340	165	3904.	1		1955	240	39.
1		0115	16	0.	1		0730	91	14.	1		1345	166	4220.	1		2000	241	38.
1		0120	17	0.	1		0735	92	14.	1		1350	167	4432.	1		2005	242	37.
1		0125	18	0.	1		0740	93	14.	1		1355	168	4562.	1		2010	243	37.
1		0130	19	0.	1		0745	94	14.	1		1400	169	4628.	1		2015	244	37.
1		0135	20	0.	1		0750	95	15.	1		1405	170	4567.	1		2020	245	36.
1		0140	21	0.	1		0755	96	15.	1		1410	171	4428.	1		2025	246	36.
1		0145	22	0.	1		0800	97	15.	1		1415	172	4228.	1		2030	247	36.
1		0150	23	0.	1		0805	98	15.	1		1420	173	4019.	1		2035	248	36.
1		0155	24	0.	1		0810	99	16.	1		1425	174	3783.	1		2040	249	35.
1		0200	25	0.	1		0815	100	16.	1		1430	175	3540.	1		2045	250	35.
1		0205	26	0.	1		0820	101	16.	1		1435	176	3335.	1		2050	251	35.
1		0210	27	0.	1		0825	102	16.	1		1440	177	3130.	1		2055	252	34.
1		0215	28	0.	1		0830	103	16.	1		1445	178	2938.	1		2100	253	34.
1		0220	29	0.	1		0835	104	16.	1		1450	179	2762.	1		2105	254	34.
1		0225	30	0.	1		0840	105	17.	1		1455	180	2578.	1		2110	255	33.
1		0230	31	0.	1		0845	106	17.	1		1500	181	2396.	1		2115	256	33.
1		0235	32	0.	1		0850	107	17.	1		1505	182	2222.	1		2120	257	32.
1		0240	33	0.	1		0855	108	17.	1		1510	183	2061.	1		2125	258	32.
1		0245	34	0.	1		0900	109	17.	1		1515	184	1907.	1		2130	259	32.
1		0250	35	0.	1		0905	110	17.	1		1520	185	1754.	1		2135	260	31.
1		0255	36	0.	1		0910	111	18.	1		1525	186	1619.	1		2140	261	31.
1		0300	37	0.	1		0915	112	18.	1		1530	187	1493.	1		2145	262	30.
1		0305	38	0.	1		0920	113	18.	1		1535	188	1378.	1		2150	263	30.
1		0310	39	0.	1		0925	114	18.	1		1540	189	1271.	1		2155	264	30.
1		0315	40	0.	1		0930	115	19.	1		1545	190	1165.	1		2200	265	29.
1		0320	41	0.	1		0935	116	19.	1		1550	191	1067.	1		2205	266	29.
1		0325	42	0.	1		0940	117	19.	1		1555	192	983.	1		2210	267	28.
1		0330	43	0.	1		0945	118	19.	1		1600	193	911.	1		2215	268	28.
1		0335	44	0.	1		0950	119	19.	1		1605	194	845.	1		2220	269	28.
1		0340	45	0.	1		0955	120	20.	1		1610	195	781.	1		2225	270	27.
1		0345	46	0.	1		1000	121	20.	1		1615	196	722.	1		2230	271	27.
1		0350	47	0.	1		1005	122	20.	1		1620	197	669.	1		2235	272	27.
1		0355	48	0.	1		1010	123	20.	1		1625	198	624.	1		2240	273	26.
1		0400	49	0.	1		1015	124	20.	1		1630	199	585.	1		2245	274	26.
1		0405	50	0.	1		1020	125	21.	1		1635	200	548.	1		2250	275	26.

1	0410	51	0.	*	1	1025	126	21.	*	1	1640	201	510.	*	1	2255	276	25.
1	0415	52	0.	*	1	1030	127	21.	*	1	1645	202	473.	*	1	2300	277	25.
1	0420	53	0.	*	1	1035	128	21.	*	1	1650	203	438.	*	1	2305	278	25.
1	0425	54	0.	*	1	1040	129	21.	*	1	1655	204	406.	*	1	2310	279	24.
1	0430	55	0.	*	1	1045	130	22.	*	1	1700	205	379.	*	1	2315	280	24.
1	0435	56	0.	*	1	1050	131	22.	*	1	1705	206	356.	*	1	2320	281	24.
1	0440	57	0.	*	1	1055	132	22.	*	1	1710	207	337.	*	1	2325	282	24.
1	0445	58	0.	*	1	1100	133	22.	*	1	1715	208	320.	*	1	2330	283	23.
1	0450	59	0.	*	1	1105	134	23.	*	1	1720	209	302.	*	1	2335	284	23.
1	0455	60	0.	*	1	1110	135	23.	*	1	1725	210	285.	*	1	2340	285	23.
1	0500	61	0.	*	1	1115	136	23.	*	1	1730	211	268.	*	1	2345	286	23.
1	0505	62	0.	*	1	1120	137	23.	*	1	1735	212	253.	*	1	2350	287	22.
1	0510	63	0.	*	1	1125	138	23.	*	1	1740	213	239.	*	1	2355	288	22.
1	0515	64	0.	*	1	1130	139	24.	*	1	1745	214	226.	*	2	0000	289	22.
1	0520	65	0.	*	1	1135	140	81.	*	1	1750	215	215.	*	2	0005	290	22.
1	0525	66	0.	*	1	1140	141	140.	*	1	1755	216	205.	*	2	0010	291	21.
1	0530	67	0.	*	1	1145	142	200.	*	1	1800	217	196.	*	2	0015	292	21.
1	0535	68	0.	*	1	1150	143	381.	*	1	1805	218	189.	*	2	0020	293	21.
1	0540	69	1.	*	1	1155	144	615.	*	1	1810	219	183.	*	2	0025	294	21.
1	0545	70	1.	*	1	1200	145	898.	*	1	1815	220	177.	*	2	0030	295	21.
1	0550	71	1.	*	1	1205	146	1159.	*	1	1820	221	171.	*	2	0035	296	20.
1	0555	72	1.	*	1	1210	147	1454.	*	1	1825	222	165.	*	2	0040	297	20.
1	0600	73	1.	*	1	1215	148	1793.	*	1	1830	223	158.	*	2	0045	298	20.
1	0605	74	1.	*	1	1220	149	2054.	*	1	1835	224	150.	*	2	0050	299	20.
1	0610	75	2.	*	1	1225	150	2325.	*	1	1840	225	142.	*	2	0055	300	20.
				*					*					*				

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
4628.	14.00	(CFS)	2049.	534.	514.	514.
		(INCHES)	1.079	1.125	1.125	1.125
		(AC-FT)	1016.	1059.	1059.	1059.

CUMULATIVE AREA = 17.65 SQ MI

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          *            *
673 KK    *        M5  *
          *            *
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BASIN M5
THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
L= 2.1 Lca= .7 S= 51.0 Kn= .055 LAG= 44.0
PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN

678 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	300	LAST ORDINATE PUNCHED OR SAVED

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                TIMINT        .083  TIME INTERVAL IN HOURS


          SUBBASIN RUNOFF DATA

679 BA         SUBBASIN CHARACTERISTICS
                    TAREA         .76  SUBBASIN AREA

680 LG         GREEN AND AMPT LOSS RATE
                   STRTL         .18  STARTING LOSS
                     DTH         .34  MOISTURE DEFICIT
                    PSIF        4.24  WETTING FRONT SUCTION
                   XKSAT         .41  HYDRAULIC CONDUCTIVITY
                   RTIMP         .00  PERCENT IMPERVIOUS AREA

679 UI         INPUT UNITGRAPH,  26 ORDINATES,  VOLUME = 1.00
                   58.0      58.0     200.0     268.0     325.0     379.0     455.0     609.0     735.0     582.0
                  486.0     409.0     340.0     283.0     202.0     121.0      99.0      83.0      58.0      45.0
                   18.0      18.0      18.0      18.0      18.0      18.0

                                                                    ***

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

                     HYDROGRAPH AT STATION       M5
                    TRANSPOSITION AREA       .0 SQ MI

   TOTAL RAINFALL =    4.20, TOTAL LOSS =    3.05, TOTAL EXCESS =    1.15

AK FLOW     TIME                                MAXIMUM AVERAGE FLOW
(CFS)       (HR)                    6-HR        24-HR       72-HR      24.92-HR
 629.      12.50        (CFS)         94.         24.         23.          23.
                       (INCHES)     1.153       1.153       1.153        1.153
                       (AC-FT)        47.         47.         47.          47.

                     CUMULATIVE AREA =     .76 SQ MI


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

                     HYDROGRAPH AT STATION       M5
                    TRANSPOSITION AREA      5.0 SQ MI

   TOTAL RAINFALL =    4.12, TOTAL LOSS =    3.00, TOTAL EXCESS =    1.12

PEAK FLOW   TIME                                MAXIMUM AVERAGE FLOW
(CFS)       (HR)                    6-HR        24-HR       72-HR      24.92-HR
 610.      12.50        (CFS)         91.         23.         22.          22.
                       (INCHES)     1.119       1.119       1.119        1.119
                       (AC-FT)        45.         45.         45.          45.

                     CUMULATIVE AREA =     .76 SQ MI


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

                     HYDROGRAPH AT STATION       M5
                    TRANSPOSITION AREA     10.0 SQ MI

   TOTAL RAINFALL =    3.99, TOTAL LOSS =    2.93, TOTAL EXCESS =    1.06
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PEAK FLOW (CFS)	TIME (HR)		6-HR	MAXIMUM AVERAGE FLOW 24-HR	72-HR	24.92-HR
579.	12.50	(CFS)	87.	22.	21.	21.
		(INCHES)	1.062	1.062	1.062	1.062
		(AC-FT)	43.	43.	43.	43.

CUMULATIVE AREA = .76 SQ MI

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

HYDROGRAPH AT STATION M5
TRANSPOSITION AREA 50.0 SQ MI

TOTAL RAINFALL = 3.70, TOTAL LOSS = 2.77, TOTAL EXCESS = .93

PEAK FLOW (CFS)	TIME (HR)		6-HR	MAXIMUM AVERAGE FLOW 24-HR	72-HR	24.92-HR
510.	12.50	(CFS)	76.	19.	18.	18.
		(INCHES)	.934	.934	.934	.934
		(AC-FT)	38.	38.	38.	38.

CUMULATIVE AREA = .76 SQ MI

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

HYDROGRAPH AT STATION M5
TRANSPOSITION AREA 100.0 SQ MI

TOTAL RAINFALL = 3.57, TOTAL LOSS = 2.70, TOTAL EXCESS = .87

PEAK FLOW (CFS)	TIME (HR)		6-HR	MAXIMUM AVERAGE FLOW 24-HR	72-HR	24.92-HR
479.	12.50	(CFS)	72.	18.	17.	17.
		(INCHES)	.876	.876	.876	.876
		(AC-FT)	36.	36.	36.	36.

CUMULATIVE AREA = .76 SQ MI

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

HYDROGRAPH AT STATION M5
TRANSPOSITION AREA 500.0 SQ MI

TOTAL RAINFALL = 3.28, TOTAL LOSS = 2.54, TOTAL EXCESS = .74

PEAK FLOW (CFS)	TIME (HR)		6-HR	MAXIMUM AVERAGE FLOW 24-HR	72-HR	24.92-HR
408.	12.50	(CFS)	61.	15.	15.	15.
		(INCHES)	.745	.745	.745	.745
		(AC-FT)	30.	30.	30.	30.

CUMULATIVE AREA = .76 SQ MI

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INTERPOLATED HYDROGRAPH AT M5

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	0.	*	1		1230	151	616.	*	1		1845	226	0.
1		0005	2	0.	*	1		0620	77	0.	*	1		1235	152	596.	*	1		1850	227	0.
1		0010	3	0.	*	1		0625	78	0.	*	1		1240	153	536.	*	1		1855	228	0.
1		0015	4	0.	*	1		0630	79	0.	*	1		1245	154	435.	*	1		1900	229	0.
1		0020	5	0.	*	1		0635	80	0.	*	1		1250	155	349.	*	1		1905	230	0.
1		0025	6	0.	*	1		0640	81	0.	*	1		1255	156	276.	*	1		1910	231	0.
1		0030	7	0.	*	1		0645	82	0.	*	1		1300	157	214.	*	1		1915	232	0.
1		0035	8	0.	*	1		0650	83	0.	*	1		1305	158	161.	*	1		1920	233	0.
1		0040	9	0.	*	1		0655	84	0.	*	1		1310	159	115.	*	1		1925	234	0.
1		0045	10	0.	*	1		0700	85	0.	*	1		1315	160	80.	*	1		1930	235	0.
1		0050	11	0.	*	1		0705	86	0.	*	1		1320	161	61.	*	1		1935	236	0.
1		0055	12	0.	*	1		0710	87	0.	*	1		1325	162	46.	*	1		1940	237	0.
1		0100	13	0.	*	1		0715	88	0.	*	1		1330	163	33.	*	1		1945	238	0.
1		0105	14	0.	*	1		0720	89	0.	*	1		1335	164	25.	*	1		1950	239	0.
1		0110	15	0.	*	1		0725	90	0.	*	1		1340	165	20.	*	1		1955	240	0.
1		0115	16	0.	*	1		0730	91	0.	*	1		1345	166	17.	*	1		2000	241	0.
1		0120	17	0.	*	1		0735	92	0.	*	1		1350	167	14.	*	1		2005	242	0.
1		0125	18	0.	*	1		0740	93	0.	*	1		1355	168	10.	*	1		2010	243	0.
1		0130	19	0.	*	1		0745	94	0.	*	1		1400	169	7.	*	1		2015	244	0.
1		0135	20	0.	*	1		0750	95	0.	*	1		1405	170	3.	*	1		2020	245	0.
1		0140	21	0.	*	1		0755	96	0.	*	1		1410	171	0.	*	1		2025	246	0.
1		0145	22	0.	*	1		0800	97	0.	*	1		1415	172	0.	*	1		2030	247	0.
1		0150	23	0.	*	1		0805	98	0.	*	1		1420	173	0.	*	1		2035	248	0.
1		0155	24	0.	*	1		0810	99	0.	*	1		1425	174	0.	*	1		2040	249	0.
1		0200	25	0.	*	1		0815	100	0.	*	1		1430	175	0.	*	1		2045	250	0.
1		0205	26	0.	*	1		0820	101	0.	*	1		1435	176	0.	*	1		2050	251	0.
1		0210	27	0.	*	1		0825	102	0.	*	1		1440	177	0.	*	1		2055	252	0.
1		0215	28	0.	*	1		0830	103	0.	*	1		1445	178	0.	*	1		2100	253	0.
1		0220	29	0.	*	1		0835	104	0.	*	1		1450	179	0.	*	1		2105	254	0.
1		0225	30	0.	*	1		0840	105	0.	*	1		1455	180	0.	*	1		2110	255	0.
1		0230	31	0.	*	1		0845	106	0.	*	1		1500	181	0.	*	1		2115	256	0.
1		0235	32	0.	*	1		0850	107	0.	*	1		1505	182	0.	*	1		2120	257	0.
1		0240	33	0.	*	1		0855	108	0.	*	1		1510	183	0.	*	1		2125	258	0.
1		0245	34	0.	*	1		0900	109	0.	*	1		1515	184	0.	*	1		2130	259	0.
1		0250	35	0.	*	1		0905	110	0.	*	1		1520	185	0.	*	1		2135	260	0.
1		0255	36	0.	*	1		0910	111	0.	*	1		1525	186	0.	*	1		2140	261	0.
1		0300	37	0.	*	1		0915	112	0.	*	1		1530	187	0.	*	1		2145	262	0.
1		0305	38	0.	*	1		0920	113	0.	*	1		1535	188	0.	*	1		2150	263	0.
1		0310	39	0.	*	1		0925	114	0.	*	1		1540	189	0.	*	1		2155	264	0.
1		0315	40	0.	*	1		0930	115	0.	*	1		1545	190	0.	*	1		2200	265	0.
1		0320	41	0.	*	1		0935	116	0.	*	1		1550	191	0.	*	1		2205	266	0.
1		0325	42	0.	*	1		0940	117	0.	*	1		1555	192	0.	*	1		2210	267	0.
1		0330	43	0.	*	1		0945	118	0.	*	1		1600	193	0.	*	1		2215	268	0.
1		0335	44	0.	*	1		0950	119	0.	*	1		1605	194	0.	*	1		2220	269	0.
1		0340	45	0.	*	1		0955	120	0.	*	1		1610	195	0.	*	1		2225	270	0.
1		0345	46	0.	*	1		1000	121	0.	*	1		1615	196	0.	*	1		2230	271	0.
1		0350	47	0.	*	1		1005	122	0.	*	1		1620	197	0.	*	1		2235	272	0.
1		0355	48	0.	*	1		1010	123	0.	*	1		1625	198	0.	*	1		2240	273	0.
1		0400	49	0.	*	1		1015	124	0.	*	1		1630	199	0.	*	1		2245	274	0.
1		0405	50	0.	*	1		1020	125	0.	*	1		1635	200	0.	*	1		2250	275	0.
1		0410	51	0.	*	1		1025	126	0.	*	1		1640	201	0.	*	1		2255	276	0.
1		0415	52	0.	*	1		1030	127	0.	*	1		1645	202	0.	*	1		2300	277	0.
1		0420	53	0.	*	1		1035	128	0.	*	1		1650	203	0.	*	1		2305	278	0.
1		0425	54	0.	*	1		1040	129	0.	*	1		1655	204	0.	*	1		2310	279	0.

1	0430	55	0.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	0.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	0.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	0.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	0.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	0.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	0.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	0.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	0.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	0.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	0.	*	1	1135	140	10.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	0.	*	1	1140	141	21.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	0.	*	1	1145	142	58.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	0.	*	1	1150	143	107.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	0.	*	1	1155	144	168.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	0.	*	1	1200	145	239.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	0.	*	1	1205	146	313.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	0.	*	1	1210	147	416.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	0.	*	1	1215	148	516.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	0.	*	1	1220	149	576.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	0.	*	1	1225	150	608.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW (CFS)	TIME (HR)		6-HR	MAXIMUM AVERAGE FLOW 24-HR	72-HR	24.92-HR
616.	12.50	(CFS)	92.	23.	22.	22.
		(INCHES)	1.129	1.129	1.129	1.129
		(AC-FT)	46.	46.	46.	46.

CUMULATIVE AREA = .76 SQ MI

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          *            *
685 KK    *    RTVBES  *       Retreive Divert 1L-D
          *            *
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686 DR RETRIEVE DIVERSION HYDROGRAPH

ISTAD 1L-D DIVERSION HYDROGRAPH IDENTIFICATION

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HYDROGRAPH AT STATION RTVBES

TRANSPOSITION AREA .0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		6-HR	MAXIMUM AVERAGE FLOW 24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 10.80 SQ MI

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HYDROGRAPH AT STATION RTVBES
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 10.80 SQ MI

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HYDROGRAPH AT STATION RTVBES
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 10.80 SQ MI

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

HYDROGRAPH AT STATION RTVBES
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 10.80 SQ MI

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

HYDROGRAPH AT STATION RTVBES
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 10.80 SQ MI

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

HYDROGRAPH AT STATION RTVBES
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 10.80 SQ MI

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INTERPOLATED HYDROGRAPH AT RTVBES

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

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

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
0.	.08	(CFS)	0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = 10.80 SQ MI

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         **************
         *            *
KK       *      BES1  *       BUCKEYE STRUCTURE NO. 1
         *            *
         **************

                    Combining 5E & L1+L2 & M5 & IL-D
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689 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

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690 HC HYDROGRAPH COMBINATION

ICOMP 4 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION BES1
TRANSPOSITION AREA .0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
12863.	14.33	(CFS)	5979.	1581.	1523.	1523.
		(INCHES)	1.155	1.222	1.222	1.222
		(AC-FT)	2965.	3136.	3136.	3136.

CUMULATIVE AREA = 48.12 SQ MI

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HYDROGRAPH AT STATION BES1
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
12414.	14.33	(CFS)	5795.	1534.	1477.	1477.
		(INCHES)	1.120	1.185	1.185	1.185
		(AC-FT)	2874.	3042.	3042.	3042.

CUMULATIVE AREA = 48.12 SQ MI

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HYDROGRAPH AT STATION BES1
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
11676.	14.33	(CFS)	5497.	1457.	1404.	1404.
		(INCHES)	1.062	1.126	1.126	1.126
		(AC-FT)	2726.	2891.	2891.	2891.

CUMULATIVE AREA = 48.12 SQ MI

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HYDROGRAPH AT STATION BES1
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
10124.	14.42	(CFS)	4830.	1286.	1239.	1239.
		(INCHES)	.933	.994	.994	.994
		(AC-FT)	2395.	2551.	2551.	2551.

CUMULATIVE AREA = 48.12 SQ MI

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HYDROGRAPH AT STATION BES1
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
9434.	14.42	(CFS)	4529.	1209.	1164.	1164.
		(INCHES)	.875	.934	.934	.934
		(AC-FT)	2246.	2397.	2397.	2397.

CUMULATIVE AREA = 48.12 SQ MI

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HYDROGRAPH AT STATION BES1
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
7857.	14.50	(CFS)	3854.	1035.	997.	997.
		(INCHES)	.745	.800	.800	.800
		(AC-FT)	1911.	2053.	2053.	2053.

CUMULATIVE AREA = 48.12 SQ MI

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INTERPOLATED HYDROGRAPH AT BES1

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	2.	*	1		1230	151	3488.	*	1		1845	226	551.
1		0005	2	0.	*	1		0620	77	2.	*	1		1235	152	3972.	*	1		1850	227	523.
1		0010	3	0.	*	1		0625	78	3.	*	1		1240	153	4385.	*	1		1855	228	499.
1		0015	4	0.	*	1		0630	79	3.	*	1		1245	154	4665.	*	1		1900	229	474.
1		0020	5	0.	*	1		0635	80	4.	*	1		1250	155	4837.	*	1		1905	230	450.
1		0025	6	0.	*	1		0640	81	4.	*	1		1255	156	4921.	*	1		1910	231	426.
1		0030	7	0.	*	1		0645	82	5.	*	1		1300	157	4858.	*	1		1915	232	403.
1		0035	8	0.	*	1		0650	83	6.	*	1		1305	158	4702.	*	1		1920	233	380.
1		0040	9	0.	*	1		0655	84	8.	*	1		1310	159	4632.	*	1		1925	234	356.
1		0045	10	0.	*	1		0700	85	10.	*	1		1315	160	4727.	*	1		1930	235	331.
1		0050	11	0.	*	1		0705	86	11.	*	1		1320	161	4972.	*	1		1935	236	302.

1	0055	12	0.	*	1	0710	87	12.	*	1	1325	162	5290.	*	1	1940	237	273.
1	0100	13	0.	*	1	0715	88	12.	*	1	1330	163	5698.	*	1	1945	238	256.
1	0105	14	0.	*	1	0720	89	13.	*	1	1335	164	6206.	*	1	1950	239	244.
1	0110	15	0.	*	1	0725	90	14.	*	1	1340	165	6787.	*	1	1955	240	235.
1	0115	16	0.	*	1	0730	91	14.	*	1	1345	166	7411.	*	1	2000	241	227.
1	0120	17	0.	*	1	0735	92	15.	*	1	1350	167	8000.	*	1	2005	242	221.
1	0125	18	0.	*	1	0740	93	15.	*	1	1355	168	8552.	*	1	2010	243	215.
1	0130	19	0.	*	1	0745	94	15.	*	1	1400	169	9092.	*	1	2015	244	210.
1	0135	20	0.	*	1	0750	95	16.	*	1	1405	170	9490.	*	1	2020	245	205.
1	0140	21	0.	*	1	0755	96	16.	*	1	1410	171	9798.	*	1	2025	246	199.
1	0145	22	0.	*	1	0800	97	17.	*	1	1415	172	10005.	*	1	2030	247	193.
1	0150	23	0.	*	1	0805	98	17.	*	1	1420	173	10133.	*	1	2035	248	187.
1	0155	24	0.	*	1	0810	99	17.	*	1	1425	174	10160.	*	1	2040	249	181.
1	0200	25	0.	*	1	0815	100	18.	*	1	1430	175	10081.	*	1	2045	250	175.
1	0205	26	0.	*	1	0820	101	18.	*	1	1435	176	9939.	*	1	2050	251	170.
1	0210	27	0.	*	1	0825	102	18.	*	1	1440	177	9723.	*	1	2055	252	164.
1	0215	28	0.	*	1	0830	103	19.	*	1	1445	178	9457.	*	1	2100	253	159.
1	0220	29	0.	*	1	0835	104	19.	*	1	1450	179	9137.	*	1	2105	254	154.
1	0225	30	0.	*	1	0840	105	20.	*	1	1455	180	8752.	*	1	2110	255	149.
1	0230	31	0.	*	1	0845	106	20.	*	1	1500	181	8321.	*	1	2115	256	145.
1	0235	32	0.	*	1	0850	107	20.	*	1	1505	182	7868.	*	1	2120	257	141.
1	0240	33	0.	*	1	0855	108	21.	*	1	1510	183	7416.	*	1	2125	258	138.
1	0245	34	0.	*	1	0900	109	21.	*	1	1515	184	6964.	*	1	2130	259	135.
1	0250	35	0.	*	1	0905	110	22.	*	1	1520	185	6502.	*	1	2135	260	131.
1	0255	36	0.	*	1	0910	111	22.	*	1	1525	186	6068.	*	1	2140	261	128.
1	0300	37	0.	*	1	0915	112	23.	*	1	1530	187	5668.	*	1	2145	262	124.
1	0305	38	0.	*	1	0920	113	23.	*	1	1535	188	5291.	*	1	2150	263	121.
1	0310	39	0.	*	1	0925	114	23.	*	1	1540	189	4919.	*	1	2155	264	118.
1	0315	40	0.	*	1	0930	115	24.	*	1	1545	190	4573.	*	1	2200	265	115.
1	0320	41	0.	*	1	0935	116	24.	*	1	1550	191	4273.	*	1	2205	266	112.
1	0325	42	0.	*	1	0940	117	25.	*	1	1555	192	4003.	*	1	2210	267	110.
1	0330	43	0.	*	1	0945	118	26.	*	1	1600	193	3767.	*	1	2215	268	107.
1	0335	44	0.	*	1	0950	119	26.	*	1	1605	194	3563.	*	1	2220	269	105.
1	0340	45	0.	*	1	0955	120	27.	*	1	1610	195	3388.	*	1	2225	270	103.
1	0345	46	0.	*	1	1000	121	27.	*	1	1615	196	3229.	*	1	2230	271	101.
1	0350	47	0.	*	1	1005	122	28.	*	1	1620	197	3070.	*	1	2235	272	99.
1	0355	48	0.	*	1	1010	123	29.	*	1	1625	198	2909.	*	1	2240	273	97.
1	0400	49	0.	*	1	1015	124	29.	*	1	1630	199	2745.	*	1	2245	274	96.
1	0405	50	0.	*	1	1020	125	30.	*	1	1635	200	2579.	*	1	2250	275	94.
1	0410	51	0.	*	1	1025	126	31.	*	1	1640	201	2422.	*	1	2255	276	93.
1	0415	52	0.	*	1	1030	127	31.	*	1	1645	202	2271.	*	1	2300	277	91.
1	0420	53	0.	*	1	1035	128	32.	*	1	1650	203	2117.	*	1	2305	278	90.
1	0425	54	0.	*	1	1040	129	32.	*	1	1655	204	1968.	*	1	2310	279	89.
1	0430	55	0.	*	1	1045	130	33.	*	1	1700	205	1832.	*	1	2315	280	88.
1	0435	56	0.	*	1	1050	131	34.	*	1	1705	206	1715.	*	1	2320	281	87.
1	0440	57	0.	*	1	1055	132	34.	*	1	1710	207	1611.	*	1	2325	282	87.
1	0445	58	0.	*	1	1100	133	35.	*	1	1715	208	1507.	*	1	2330	283	86.
1	0450	59	0.	*	1	1105	134	36.	*	1	1720	209	1404.	*	1	2335	284	85.
1	0455	60	0.	*	1	1110	135	37.	*	1	1725	210	1306.	*	1	2340	285	85.
1	0500	61	0.	*	1	1115	136	38.	*	1	1730	211	1211.	*	1	2345	286	84.
1	0505	62	0.	*	1	1120	137	39.	*	1	1735	212	1122.	*	1	2350	287	83.
1	0510	63	0.	*	1	1125	138	40.	*	1	1740	213	1043.	*	1	2355	288	83.
1	0515	64	0.	*	1	1130	139	42.	*	1	1745	214	974.	*	2	0000	289	82.
1	0520	65	0.	*	1	1135	140	110.	*	1	1750	215	916.	*	2	0005	290	82.
1	0525	66	0.	*	1	1140	141	196.	*	1	1755	216	867.	*	2	0010	291	81.
1	0530	67	0.	*	1	1145	142	316.	*	1	1800	217	827.	*	2	0015	292	81.
1	0535	68	1.	*	1	1150	143	579.	*	1	1805	218	796.	*	2	0020	293	80.
1	0540	69	1.	*	1	1155	144	918.	*	1	1810	219	765.	*	2	0025	294	79.
1	0545	70	1.	*	1	1200	145	1307.	*	1	1815	220	734.	*	2	0030	295	79.
1	0550	71	1.	*	1	1205	146	1685.	*	1	1820	221	703.	*	2	0035	296	78.

1	0555	72	1.	*	1	1210	147	2110.	*	1	1825	222	671.	*	2	0040	297	77.
1	0600	73	1.	*	1	1215	148	2551.	*	1	1830	223	640.	*	2	0045	298	77.
1	0605	74	1.	*	1	1220	149	2837.	*	1	1835	224	609.	*	2	0050	299	76.
1	0610	75	2.	*	1	1225	150	3106.	*	1	1840	225	579.	*	2	0055	300	76.
				*					*					*					

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
10160.	14.42	(CFS)	4846.	1290.	1243.	1243.
		(INCHES)	.936	.997	.997	.997
		(AC-FT)	2403.	2559.	2559.	2559.

CUMULATIVE AREA = 48.12 SQ MI

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692 KK

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* *
* M1 *
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BASIN M1
THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
L= 4.2 Lca= 2.6 S= 368.0 Kn= .050 LAG= 58.0
PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN

697 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

SUBBASIN RUNOFF DATA

698 BA SUBBASIN CHARACTERISTICS

TAREA	3.32	SUBBASIN AREA

699 LG GREEN AND AMPT LOSS RATE

STRTL	.25	STARTING LOSS
DTH	.35	MOISTURE DEFICIT
PSIF	3.77	WETTING FRONT SUCTION
XKSAT	.31	HYDRAULIC CONDUCTIVITY
RTIMP	17.00	PERCENT IMPERVIOUS AREA

[illegible] UI INPUT UNITGRAPH, 53 ORDINATES, VOLUME = 1.00

193.0	193.0	312.0	628.0	871.0	1160.0	1324.0	1478.0	1723.0	2214.0
1896.0	1372.0	1188.0	1104.0	1009.0	929.0	849.0	769.0	693.0	611.0
514.0	474.0	447.0	415.0	367.0	316.0	261.0	246.0	222.0	211.0
194.0	148.0	148.0	148.0	106.0	94.0	94.0	94.0	94.0	75.0
37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0

37.0 37.0 37.0

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HYDROGRAPH AT STATION M1
TRANSPOSITION AREA .0 SQ MI

TOTAL RAINFALL = 4.20, TOTAL LOSS = 2.44, TOTAL EXCESS = 1.76

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2273.	12.50	(CFS)	552.	157.	151.	151.
		(INCHES)	1.545	1.754	1.755	1.755
		(AC-FT)	274.	311.	311.	311.

CUMULATIVE AREA = 3.32 SQ MI

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HYDROGRAPH AT STATION M1
TRANSPOSITION AREA 5.0 SQ MI

TOTAL RAINFALL = 4.12, TOTAL LOSS = 2.40, TOTAL EXCESS = 1.72

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2215.	12.50	(CFS)	537.	153.	147.	147.
		(INCHES)	1.504	1.709	1.710	1.710
		(AC-FT)	266.	303.	303.	303.

CUMULATIVE AREA = 3.32 SQ MI

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HYDROGRAPH AT STATION M1
TRANSPOSITION AREA 10.0 SQ MI

TOTAL RAINFALL = 3.99, TOTAL LOSS = 2.34, TOTAL EXCESS = 1.65

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2121.	12.50	(CFS)	515.	146.	141.	141.
		(INCHES)	1.441	1.640	1.641	1.641
		(AC-FT)	255.	290.	290.	290.

CUMULATIVE AREA = 3.32 SQ MI

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HYDROGRAPH AT STATION M1
TRANSPOSITION AREA 50.0 SQ MI

TOTAL RAINFALL = 3.70, TOTAL LOSS = 2.21, TOTAL EXCESS = 1.49

PEAK FLOW TIME MAXIMUM AVERAGE FLOW

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1911.	12.50	(CFS)	465.	133.	128.	128.
		(INCHES)	1.303	1.487	1.488	1.488
		(AC-FT)	231.	263.	263.	263.

CUMULATIVE AREA = 3.32 SQ MI

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HYDROGRAPH AT STATION M1
TRANSPOSITION AREA 100.0 SQ MI

TOTAL RAINFALL = 3.57, TOTAL LOSS = 2.15, TOTAL EXCESS = 1.42

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1815.	12.50	(CFS)	443.	127.	122.	122.
		(INCHES)	1.241	1.418	1.419	1.419
		(AC-FT)	220.	251.	251.	251.

CUMULATIVE AREA = 3.32 SQ MI

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HYDROGRAPH AT STATION M1
TRANSPOSITION AREA 500.0 SQ MI

TOTAL RAINFALL = 3.28, TOTAL LOSS = 2.01, TOTAL EXCESS = 1.27

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1600.	12.50	(CFS)	393.	113.	109.	109.
		(INCHES)	1.099	1.262	1.263	1.263
		(AC-FT)	195.	224.	224.	224.

CUMULATIVE AREA = 3.32 SQ MI

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INTERPOLATED HYDROGRAPH AT M1

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	24.	1		1230	151	2218.	1		1845	226	28.
1		0005	2	0.	1		0620	77	24.	1		1235	152	2198.	1		1850	227	28.
1		0010	3	0.	1		0625	78	25.	1		1240	153	2128.	1		1855	228	27.
1		0015	4	0.	1		0630	79	25.	1		1245	154	1986.	1		1900	229	27.
1		0020	5	1.	1		0635	80	25.	1		1250	155	1722.	1		1905	230	27.
1		0025	6	1.	1		0640	81	25.	1		1255	156	1506.	1		1910	231	26.
1		0030	7	2.	1		0645	82	26.	1		1300	157	1381.	1		1915	232	26.
1		0035	8	3.	1		0650	83	26.	1		1305	158	1277.	1		1920	233	26.
1		0040	9	4.	1		0655	84	26.	1		1310	159	1172.	1		1925	234	26.
1		0045	10	5.	1		0700	85	26.	1		1315	160	1066.	1		1930	235	25.
1		0050	11	6.	1		0705	86	26.	1		1320	161	964.	1		1935	236	25.
1		0055	12	7.	1		0710	87	26.	1		1325	162	873.	1		1940	237	25.
1		0100	13	8.	1		0715	88	26.	1		1330	163	795.	1		1945	238	25.

1	0105	14	9.	*	1	0720	89	27.	*	1	1335	164	722.	*	1	1950	239	25.
1	0110	15	10.	*	1	0725	90	27.	*	1	1340	165	657.	*	1	1955	240	25.
1	0115	16	11.	*	1	0730	91	27.	*	1	1345	166	599.	*	1	2000	241	24.
1	0120	17	11.	*	1	0735	92	28.	*	1	1350	167	547.	*	1	2005	242	24.
1	0125	18	12.	*	1	0740	93	28.	*	1	1355	168	495.	*	1	2010	243	24.
1	0130	19	12.	*	1	0745	94	28.	*	1	1400	169	448.	*	1	2015	244	24.
1	0135	20	13.	*	1	0750	95	29.	*	1	1405	170	407.	*	1	2020	245	23.
1	0140	21	13.	*	1	0755	96	29.	*	1	1410	171	369.	*	1	2025	246	23.
1	0145	22	13.	*	1	0800	97	30.	*	1	1415	172	341.	*	1	2030	247	23.
1	0150	23	14.	*	1	0805	98	30.	*	1	1420	173	317.	*	1	2035	248	23.
1	0155	24	14.	*	1	0810	99	31.	*	1	1425	174	289.	*	1	2040	249	22.
1	0200	25	14.	*	1	0815	100	31.	*	1	1430	175	261.	*	1	2045	250	22.
1	0205	26	14.	*	1	0820	101	31.	*	1	1435	176	237.	*	1	2050	251	22.
1	0210	27	15.	*	1	0825	102	32.	*	1	1440	177	223.	*	1	2055	252	22.
1	0215	28	15.	*	1	0830	103	32.	*	1	1445	178	209.	*	1	2100	253	22.
1	0220	29	15.	*	1	0835	104	33.	*	1	1450	179	191.	*	1	2105	254	21.
1	0225	30	16.	*	1	0840	105	33.	*	1	1455	180	175.	*	1	2110	255	21.
1	0230	31	16.	*	1	0845	106	34.	*	1	1500	181	160.	*	1	2115	256	21.
1	0235	32	16.	*	1	0850	107	34.	*	1	1505	182	146.	*	1	2120	257	21.
1	0240	33	16.	*	1	0855	108	35.	*	1	1510	183	133.	*	1	2125	258	20.
1	0245	34	17.	*	1	0900	109	36.	*	1	1515	184	119.	*	1	2130	259	20.
1	0250	35	17.	*	1	0905	110	36.	*	1	1520	185	109.	*	1	2135	260	20.
1	0255	36	17.	*	1	0910	111	37.	*	1	1525	186	107.	*	1	2140	261	20.
1	0300	37	17.	*	1	0915	112	37.	*	1	1530	187	105.	*	1	2145	262	20.
1	0305	38	18.	*	1	0920	113	38.	*	1	1535	188	104.	*	1	2150	263	20.
1	0310	39	18.	*	1	0925	114	39.	*	1	1540	189	102.	*	1	2155	264	20.
1	0315	40	18.	*	1	0930	115	39.	*	1	1545	190	101.	*	1	2200	265	20.
1	0320	41	18.	*	1	0935	116	40.	*	1	1550	191	99.	*	1	2205	266	20.
1	0325	42	19.	*	1	0940	117	41.	*	1	1555	192	98.	*	1	2210	267	20.
1	0330	43	19.	*	1	0945	118	42.	*	1	1600	193	89.	*	1	2215	268	20.
1	0335	44	19.	*	1	0950	119	43.	*	1	1605	194	80.	*	1	2220	269	19.
1	0340	45	19.	*	1	0955	120	43.	*	1	1610	195	71.	*	1	2225	270	19.
1	0345	46	19.	*	1	1000	121	44.	*	1	1615	196	62.	*	1	2230	271	19.
1	0350	47	19.	*	1	1005	122	45.	*	1	1620	197	53.	*	1	2235	272	19.
1	0355	48	19.	*	1	1010	123	46.	*	1	1625	198	44.	*	1	2240	273	19.
1	0400	49	19.	*	1	1015	124	47.	*	1	1630	199	43.	*	1	2245	274	19.
1	0405	50	19.	*	1	1020	125	48.	*	1	1635	200	42.	*	1	2250	275	19.
1	0410	51	19.	*	1	1025	126	49.	*	1	1640	201	41.	*	1	2255	276	18.
1	0415	52	19.	*	1	1030	127	51.	*	1	1645	202	40.	*	1	2300	277	18.
1	0420	53	20.	*	1	1035	128	52.	*	1	1650	203	39.	*	1	2305	278	18.
1	0425	54	20.	*	1	1040	129	54.	*	1	1655	204	38.	*	1	2310	279	18.
1	0430	55	20.	*	1	1045	130	55.	*	1	1700	205	38.	*	1	2315	280	18.
1	0435	56	20.	*	1	1050	131	58.	*	1	1705	206	37.	*	1	2320	281	17.
1	0440	57	21.	*	1	1055	132	60.	*	1	1710	207	37.	*	1	2325	282	17.
1	0445	58	21.	*	1	1100	133	62.	*	1	1715	208	36.	*	1	2330	283	17.
1	0450	59	21.	*	1	1105	134	65.	*	1	1720	209	36.	*	1	2335	284	17.
1	0455	60	21.	*	1	1110	135	68.	*	1	1725	210	35.	*	1	2340	285	17.
1	0500	61	22.	*	1	1115	136	71.	*	1	1730	211	35.	*	1	2345	286	17.
1	0505	62	22.	*	1	1120	137	75.	*	1	1735	212	35.	*	1	2350	287	17.
1	0510	63	22.	*	1	1125	138	79.	*	1	1740	213	34.	*	1	2355	288	17.
1	0515	64	22.	*	1	1130	139	83.	*	1	1745	214	34.	*	2	0000	289	17.
1	0520	65	22.	*	1	1135	140	127.	*	1	1750	215	33.	*	2	0005	290	17.
1	0525	66	22.	*	1	1140	141	171.	*	1	1755	216	33.	*	2	0010	291	17.
1	0530	67	22.	*	1	1145	142	240.	*	1	1800	217	32.	*	2	0015	292	16.
1	0535	68	22.	*	1	1150	143	375.	*	1	1805	218	32.	*	2	0020	293	16.
1	0540	69	22.	*	1	1155	144	560.	*	1	1810	219	31.	*	2	0025	294	15.
1	0545	70	22.	*	1	1200	145	805.	*	1	1815	220	31.	*	2	0030	295	14.
1	0550	71	23.	*	1	1205	146	1043.	*	1	1820	221	30.	*	2	0035	296	13.
1	0555	72	23.	*	1	1210	147	1314.	*	1	1825	222	30.	*	2	0040	297	12.
1	0600	73	23.	*	1	1215	148	1612.	*	1	1830	223	29.	*	2	0045	298	11.

1	0605	74	23.	*	1	1220	149	1946.	*	1	1835	224	29.	*	2	0050	299	10.
1	0610	75	24.	*	1	1225	150	2165.	*	1	1840	225	28.	*	2	0055	300	9.
				*					*					*					

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2218.	12.50	(CFS)	538.	153.	147.	147.
		(INCHES)	1.507	1.712	1.713	1.713
		(AC-FT)	267.	303.	303.	303.

CUMULATIVE AREA = 3.32 SQ MI

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707 KK * M2 *
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BASIN M2
THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
L= 3.8 Lca= 1.9 S= 398.0 Kn= .050 LAG= 49.0
PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN

KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

SUBBASIN RUNOFF DATA

713 BA SUBBASIN CHARACTERISTICS

TAREA	1.68	SUBBASIN AREA

714 LG GREEN AND AMPT LOSS RATE

STRTL	.26	STARTING LOSS
DTH	.35	MOISTURE DEFICIT
PSIF	4.30	WETTING FRONT SUCTION
XKSAT	.40	HYDRAULIC CONDUCTIVITY
RTIMP	20.00	PERCENT IMPERVIOUS AREA

713 UI INPUT UNITGRAPH, 45 ORDINATES, VOLUME = 1.00

116.0	116.0	278.0	473.0	672.0	797.0	906.0	1134.0	1326.0	861.0
723.0	658.0	591.0	537.0	477.0	423.0	365.0	301.0	278.0	259.0
230.0	190.0	154.0	146.0	127.0	126.0	89.0	89.0	86.0	57.0
57.0	57.0	57.0	40.0	22.0	22.0	22.0	22.0	22.0	22.0
22.0	22.0	22.0	22.0	22.0					

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HYDROGRAPH AT STATION M2
TRANSPOSITION AREA .0 SQ MI

TOTAL RAINFALL = 4.20, TOTAL LOSS = 2.45, TOTAL EXCESS = 1.75

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1223.	12.42	(CFS)	271.	79.	76.	76.
		(INCHES)	1.502	1.748	1.749	1.749
		(AC-FT)	135.	157.	157.	157.

CUMULATIVE AREA = 1.68 SQ MI

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HYDROGRAPH AT STATION M2
TRANSPOSITION AREA 5.0 SQ MI

TOTAL RAINFALL = 4.12, TOTAL LOSS = 2.42, TOTAL EXCESS = 1.70

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1189.	12.42	(CFS)	264.	77.	74.	74.
		(INCHES)	1.463	1.704	1.705	1.705
		(AC-FT)	131.	153.	153.	153.

CUMULATIVE AREA = 1.68 SQ MI

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HYDROGRAPH AT STATION M2
TRANSPOSITION AREA 10.0 SQ MI

TOTAL RAINFALL = 3.99, TOTAL LOSS = 2.36, TOTAL EXCESS = 1.63

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1135.	12.42	(CFS)	253.	74.	71.	71.
		(INCHES)	1.398	1.632	1.633	1.633
		(AC-FT)	125.	146.	146.	146.

CUMULATIVE AREA = 1.68 SQ MI

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HYDROGRAPH AT STATION M2
TRANSPOSITION AREA 50.0 SQ MI

TOTAL RAINFALL = 3.70, TOTAL LOSS = 2.23, TOTAL EXCESS = 1.47

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1011.	12.42	(CFS)	226.	66.	64.	64.
		(INCHES)	1.253	1.470	1.471	1.471

(AC-FT)	112.	132.	132.	132.

CUMULATIVE AREA = 1.68 SQ MI

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HYDROGRAPH AT STATION M2
TRANSPOSITION AREA 100.0 SQ MI

TOTAL RAINFALL = 3.57, TOTAL LOSS = 2.17, TOTAL EXCESS = 1.40

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
955.	12.42	(CFS)	215.	63.	61.	61.
		(INCHES)	1.188	1.396	1.398	1.398
		(AC-FT)	106.	125.	125.	125.

CUMULATIVE AREA = 1.68 SQ MI

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

HYDROGRAPH AT STATION M2
TRANSPOSITION AREA 500.0 SQ MI

TOTAL RAINFALL = 3.28, TOTAL LOSS = 2.05, TOTAL EXCESS = 1.23

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
829.	12.42	(CFS)	188.	56.	54.	54.
		(INCHES)	1.040	1.231	1.233	1.233
		(AC-FT)	93.	110.	110.	110.

CUMULATIVE AREA = 1.68 SQ MI

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INTERPOLATED HYDROGRAPH AT M2

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	15.	*	1		1230	151	1175.	*	1		1845	226	16.
1		0005	2	0.	*	1		0620	77	15.	*	1		1235	152	1119.	*	1		1850	227	16.
1		0010	3	0.	*	1		0625	78	15.	*	1		1240	153	1008.	*	1		1855	228	16.
1		0015	4	0.	*	1		0630	79	15.	*	1		1245	154	845.	*	1		1900	229	16.
1		0020	5	1.	*	1		0635	80	15.	*	1		1250	155	761.	*	1		1905	230	15.
1		0025	6	1.	*	1		0640	81	15.	*	1		1255	156	691.	*	1		1910	231	15.
1		0030	7	2.	*	1		0645	82	16.	*	1		1300	157	621.	*	1		1915	232	15.
1		0035	8	2.	*	1		0650	83	16.	*	1		1305	158	558.	*	1		1920	233	15.
1		0040	9	3.	*	1		0655	84	16.	*	1		1310	159	501.	*	1		1925	234	15.
1		0045	10	4.	*	1		0700	85	16.	*	1		1315	160	448.	*	1		1930	235	15.
1		0050	11	5.	*	1		0705	86	16.	*	1		1320	161	399.	*	1		1935	236	15.
1		0055	12	5.	*	1		0710	87	16.	*	1		1325	162	355.	*	1		1940	237	15.
1		0100	13	6.	*	1		0715	88	16.	*	1		1330	163	322.	*	1		1945	238	15.
1		0105	14	6.	*	1		0720	89	16.	*	1		1335	164	290.	*	1		1950	239	15.
1		0110	15	7.	*	1		0725	90	16.	*	1		1340	165	261.	*	1		1955	240	14.

1	0115	16	7.	*	1	0730	91	17.	*	1	1345	166	230.	*	1	2000	241	14.
1	0120	17	8.	*	1	0735	92	17.	*	1	1350	167	207.	*	1	2005	242	14.
1	0125	18	8.	*	1	0740	93	17.	*	1	1355	168	192.	*	1	2010	243	14.
1	0130	19	8.	*	1	0745	94	18.	*	1	1400	169	172.	*	1	2015	244	14.
1	0135	20	8.	*	1	0750	95	18.	*	1	1405	170	156.	*	1	2020	245	14.
1	0140	21	8.	*	1	0755	96	18.	*	1	1410	171	140.	*	1	2025	246	13.
1	0145	22	9.	*	1	0800	97	18.	*	1	1415	172	131.	*	1	2030	247	13.
1	0150	23	9.	*	1	0805	98	19.	*	1	1420	173	119.	*	1	2035	248	13.
1	0155	24	9.	*	1	0810	99	19.	*	1	1425	174	105.	*	1	2040	249	13.
1	0200	25	9.	*	1	0815	100	19.	*	1	1430	175	97.	*	1	2045	250	13.
1	0205	26	9.	*	1	0820	101	19.	*	1	1435	176	88.	*	1	2050	251	13.
1	0210	27	9.	*	1	0825	102	19.	*	1	1440	177	80.	*	1	2055	252	13.
1	0215	28	10.	*	1	0830	103	20.	*	1	1445	178	72.	*	1	2100	253	13.
1	0220	29	10.	*	1	0835	104	20.	*	1	1450	179	67.	*	1	2105	254	12.
1	0225	30	10.	*	1	0840	105	21.	*	1	1455	180	65.	*	1	2110	255	12.
1	0230	31	10.	*	1	0845	106	21.	*	1	1500	181	64.	*	1	2115	256	12.
1	0235	32	10.	*	1	0850	107	21.	*	1	1505	182	63.	*	1	2120	257	12.
1	0240	33	10.	*	1	0855	108	22.	*	1	1510	183	62.	*	1	2125	258	12.
1	0245	34	10.	*	1	0900	109	22.	*	1	1515	184	61.	*	1	2130	259	12.
1	0250	35	10.	*	1	0905	110	22.	*	1	1520	185	56.	*	1	2135	260	12.
1	0255	36	11.	*	1	0910	111	23.	*	1	1525	186	51.	*	1	2140	261	12.
1	0300	37	11.	*	1	0915	112	23.	*	1	1530	187	46.	*	1	2145	262	12.
1	0305	38	11.	*	1	0920	113	24.	*	1	1535	188	41.	*	1	2150	263	12.
1	0310	39	11.	*	1	0925	114	24.	*	1	1540	189	35.	*	1	2155	264	12.
1	0315	40	11.	*	1	0930	115	24.	*	1	1545	190	30.	*	1	2200	265	12.
1	0320	41	11.	*	1	0935	116	25.	*	1	1550	191	29.	*	1	2205	266	12.
1	0325	42	11.	*	1	0940	117	25.	*	1	1555	192	29.	*	1	2210	267	12.
1	0330	43	11.	*	1	0945	118	26.	*	1	1600	193	28.	*	1	2215	268	12.
1	0335	44	11.	*	1	0950	119	26.	*	1	1605	194	27.	*	1	2220	269	11.
1	0340	45	11.	*	1	0955	120	27.	*	1	1610	195	26.	*	1	2225	270	11.
1	0345	46	11.	*	1	1000	121	27.	*	1	1615	196	26.	*	1	2230	271	11.
1	0350	47	11.	*	1	1005	122	28.	*	1	1620	197	25.	*	1	2235	272	11.
1	0355	48	11.	*	1	1010	123	29.	*	1	1625	198	24.	*	1	2240	273	11.
1	0400	49	11.	*	1	1015	124	29.	*	1	1630	199	24.	*	1	2245	274	11.
1	0405	50	12.	*	1	1020	125	30.	*	1	1635	200	23.	*	1	2250	275	11.
1	0410	51	12.	*	1	1025	126	31.	*	1	1640	201	23.	*	1	2255	276	11.
1	0415	52	12.	*	1	1030	127	32.	*	1	1645	202	23.	*	1	2300	277	11.
1	0420	53	12.	*	1	1035	128	33.	*	1	1650	203	22.	*	1	2305	278	11.
1	0425	54	12.	*	1	1040	129	34.	*	1	1655	204	22.	*	1	2310	279	10.
1	0430	55	12.	*	1	1045	130	35.	*	1	1700	205	22.	*	1	2315	280	10.
1	0435	56	13.	*	1	1050	131	37.	*	1	1705	206	21.	*	1	2320	281	10.
1	0440	57	13.	*	1	1055	132	38.	*	1	1710	207	21.	*	1	2325	282	10.
1	0445	58	13.	*	1	1100	133	40.	*	1	1715	208	21.	*	1	2330	283	10.
1	0450	59	13.	*	1	1105	134	41.	*	1	1720	209	21.	*	1	2335	284	10.
1	0455	60	13.	*	1	1110	135	43.	*	1	1725	210	20.	*	1	2340	285	10.
1	0500	61	13.	*	1	1115	136	46.	*	1	1730	211	20.	*	1	2345	286	10.
1	0505	62	13.	*	1	1120	137	48.	*	1	1735	212	20.	*	1	2350	287	10.
1	0510	63	13.	*	1	1125	138	51.	*	1	1740	213	20.	*	1	2355	288	10.
1	0515	64	13.	*	1	1130	139	54.	*	1	1745	214	19.	*	2	0000	289	10.
1	0520	65	13.	*	1	1135	140	79.	*	1	1750	215	19.	*	2	0005	290	10.
1	0525	66	13.	*	1	1140	141	104.	*	1	1755	216	19.	*	2	0010	291	10.
1	0530	67	13.	*	1	1145	142	160.	*	1	1800	217	19.	*	2	0015	292	9.
1	0535	68	13.	*	1	1150	143	253.	*	1	1805	218	18.	*	2	0020	293	9.
1	0540	69	13.	*	1	1155	144	383.	*	1	1810	219	18.	*	2	0025	294	8.
1	0545	70	14.	*	1	1200	145	538.	*	1	1815	220	18.	*	2	0030	295	8.
1	0550	71	14.	*	1	1205	146	693.	*	1	1820	221	17.	*	2	0035	296	7.
1	0555	72	14.	*	1	1210	147	892.	*	1	1825	222	17.	*	2	0040	297	6.
1	0600	73	14.	*	1	1215	148	1096.	*	1	1830	223	17.	*	2	0045	298	5.
1	0605	74	14.	*	1	1220	149	1178.	*	1	1835	224	17.	*	2	0050	299	5.
1	0610	75	15.	*	1	1225	150	1195.	*	1	1840	225	16.	*	2	0055	300	4.

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

 PEAK FLOW     TIME                                  MAXIMUM AVERAGE FLOW
   (CFS)       (HR)                  6-HR       24-HR       72-HR      24.92-HR
   1195.      12.42       (CFS)       266.        77.         75.         75.
                          (INCHES)   1.469       1.711       1.713       1.713
                          (AC-FT)     132.        153.        153.        153.

                          CUMULATIVE AREA =    1.68 SQ MI



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


          **************
          *            *
721 KK    *        M3  *
          *            *
          **************
                        BASIN M3
                         THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
                         L=      1.2  Lca=       .6   S=  478.0  Kn= .050  LAG=  21.0
                         PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN

726 KO                   OUTPUT CONTROL VARIABLES
                              IPRNT          2  PRINT CONTROL
                              IPLOT          0  PLOT CONTROL
                              QSCAL          0.  HYDROGRAPH PLOT SCALE
                              IPNCH          0  PUNCH COMPUTED HYDROGRAPH
                               IOUT         22  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


                    SUBBASIN RUNOFF DATA

727 BA                   SUBBASIN CHARACTERISTICS
                              TAREA        .54  SUBBASIN AREA

728 LG                   GREEN AND AMPT LOSS RATE
                              STRTL        .29  STARTING LOSS
                                DTH        .35  MOISTURE DEFICIT
                               PSIF       3.87  WETTING FRONT SUCTION
                              XKSAT        .34  HYDRAULIC CONDUCTIVITY
                              RTIMP       9.00  PERCENT IMPERVIOUS AREA

727 UI                   INPUT UNITGRAPH,  19 ORDINATES,  VOLUME =  .99
                             91.0     359.0     618.0     881.0     548.0     426.0     327.0     231.0     184.0     125.0
                             98.0      70.0      51.0      42.0      26.0      16.0      16.0      16.0      16.0

                                                                    ***

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

                          HYDROGRAPH AT STATION       M3
                         TRANSPOSITION AREA       .0 SQ MI
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TOTAL RAINFALL = 4.20, TOTAL LOSS = 2.72, TOTAL EXCESS = 1.48

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
661.	12.08	(CFS)	79.	21.	21.	21.
		(INCHES)	1.358	1.467	1.468	1.468
		(AC-FT)	39.	42.	42.	42.

CUMULATIVE AREA = .54 SQ MI

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

HYDROGRAPH AT STATION M3
TRANSPOSITION AREA 5.0 SQ MI

TOTAL RAINFALL = 4.12, TOTAL LOSS = 2.68, TOTAL EXCESS = 1.44

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
643.	12.08	(CFS)	77.	21.	20.	20.
		(INCHES)	1.322	1.429	1.430	1.430
		(AC-FT)	38.	41.	41.	41.

CUMULATIVE AREA = .54 SQ MI

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

HYDROGRAPH AT STATION M3
TRANSPOSITION AREA 10.0 SQ MI

TOTAL RAINFALL = 3.99, TOTAL LOSS = 2.61, TOTAL EXCESS = 1.38

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
614.	12.08	(CFS)	73.	20.	19.	19.
		(INCHES)	1.263	1.367	1.367	1.367
		(AC-FT)	36.	39.	39.	39.

CUMULATIVE AREA = .54 SQ MI

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

HYDROGRAPH AT STATION M3
TRANSPOSITION AREA 50.0 SQ MI

TOTAL RAINFALL = 3.70, TOTAL LOSS = 2.46, TOTAL EXCESS = 1.24

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
548.	12.08	(CFS)	66.	18.	17.	17.
		(INCHES)	1.130	1.226	1.227	1.227
		(AC-FT)	33.	35.	35.	35.

CUMULATIVE AREA = .54 SQ MI

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

HYDROGRAPH AT STATION M3
TRANSPOSITION AREA 100.0 SQ MI

TOTAL RAINFALL = 3.57, TOTAL LOSS = 2.40, TOTAL EXCESS = 1.17

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
518.	12.08	(CFS)	62.	17.	16.	16.
		(INCHES)	1.069	1.162	1.163	1.163
		(AC-FT)	31.	33.	33.	33.

CUMULATIVE AREA = .54 SQ MI

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

HYDROGRAPH AT STATION M3
TRANSPOSITION AREA 500.0 SQ MI

TOTAL RAINFALL = 3.28, TOTAL LOSS = 2.25, TOTAL EXCESS = 1.03

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
450.	12.08	(CFS)	54.	15.	14.	14.
		(INCHES)	.933	1.018	1.018	1.018
		(AC-FT)	27.	29.	29.	29.

CUMULATIVE AREA = .54 SQ MI

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INTERPOLATED HYDROGRAPH AT M3

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	2.	*	1		1230	151	227.	*	1		1845	226	2.
1		0005	2	0.	*	1		0620	77	2.	*	1		1235	152	171.	*	1		1850	227	2.
1		0010	3	0.	*	1		0625	78	2.	*	1		1240	153	132.	*	1		1855	228	2.
1		0015	4	0.	*	1		0630	79	2.	*	1		1245	154	99.	*	1		1900	229	2.
1		0020	5	1.	*	1		0635	80	2.	*	1		1250	155	75.	*	1		1905	230	2.
1		0025	6	1.	*	1		0640	81	2.	*	1		1255	156	58.	*	1		1910	231	2.
1		0030	7	1.	*	1		0645	82	2.	*	1		1300	157	46.	*	1		1915	232	2.
1		0035	8	1.	*	1		0650	83	2.	*	1		1305	158	38.	*	1		1920	233	2.
1		0040	9	1.	*	1		0655	84	2.	*	1		1310	159	29.	*	1		1925	234	2.
1		0045	10	1.	*	1		0700	85	2.	*	1		1315	160	23.	*	1		1930	235	2.
1		0050	11	1.	*	1		0705	86	2.	*	1		1320	161	19.	*	1		1935	236	2.
1		0055	12	1.	*	1		0710	87	2.	*	1		1325	162	15.	*	1		1940	237	2.
1		0100	13	1.	*	1		0715	88	2.	*	1		1330	163	11.	*	1		1945	238	2.
1		0105	14	1.	*	1		0720	89	3.	*	1		1335	164	8.	*	1		1950	239	2.
1		0110	15	1.	*	1		0725	90	3.	*	1		1340	165	7.	*	1		1955	240	2.
1		0115	16	1.	*	1		0730	91	3.	*	1		1345	166	7.	*	1		2000	241	2.
1		0120	17	1.	*	1		0735	92	3.	*	1		1350	167	7.	*	1		2005	242	2.
1		0125	18	1.	*	1		0740	93	3.	*	1		1355	168	6.	*	1		2010	243	2.
1		0130	19	1.	*	1		0745	94	3.	*	1		1400	169	6.	*	1		2015	244	2.
1		0135	20	1.	*	1		0750	95	3.	*	1		1405	170	6.	*	1		2020	245	2.

1	0140	21	1.	*	1	0755	96	3.	*	1	1410	171	6.	*	1	2025	246	2.
1	0145	22	1.	*	1	0800	97	3.	*	1	1415	172	5.	*	1	2030	247	2.
1	0150	23	1.	*	1	0805	98	3.	*	1	1420	173	5.	*	1	2035	248	2.
1	0155	24	1.	*	1	0810	99	3.	*	1	1425	174	5.	*	1	2040	249	2.
1	0200	25	1.	*	1	0815	100	3.	*	1	1430	175	5.	*	1	2045	250	2.
1	0205	26	1.	*	1	0820	101	3.	*	1	1435	176	5.	*	1	2050	251	2.
1	0210	27	2.	*	1	0825	102	3.	*	1	1440	177	5.	*	1	2055	252	2.
1	0215	28	2.	*	1	0830	103	3.	*	1	1445	178	5.	*	1	2100	253	2.
1	0220	29	2.	*	1	0835	104	3.	*	1	1450	179	4.	*	1	2105	254	2.
1	0225	30	2.	*	1	0840	105	3.	*	1	1455	180	4.	*	1	2110	255	2.
1	0230	31	2.	*	1	0845	106	3.	*	1	1500	181	4.	*	1	2115	256	2.
1	0235	32	2.	*	1	0850	107	3.	*	1	1505	182	4.	*	1	2120	257	2.
1	0240	33	2.	*	1	0855	108	3.	*	1	1510	183	4.	*	1	2125	258	2.
1	0245	34	2.	*	1	0900	109	4.	*	1	1515	184	4.	*	1	2130	259	2.
1	0250	35	2.	*	1	0905	110	4.	*	1	1520	185	4.	*	1	2135	260	2.
1	0255	36	2.	*	1	0910	111	4.	*	1	1525	186	4.	*	1	2140	261	2.
1	0300	37	2.	*	1	0915	112	4.	*	1	1530	187	4.	*	1	2145	262	2.
1	0305	38	2.	*	1	0920	113	4.	*	1	1535	188	4.	*	1	2150	263	2.
1	0310	39	2.	*	1	0925	114	4.	*	1	1540	189	4.	*	1	2155	264	2.
1	0315	40	2.	*	1	0930	115	4.	*	1	1545	190	4.	*	1	2200	265	2.
1	0320	41	2.	*	1	0935	116	4.	*	1	1550	191	3.	*	1	2205	266	2.
1	0325	42	2.	*	1	0940	117	4.	*	1	1555	192	3.	*	1	2210	267	2.
1	0330	43	2.	*	1	0945	118	4.	*	1	1600	193	3.	*	1	2215	268	2.
1	0335	44	2.	*	1	0950	119	4.	*	1	1605	194	3.	*	1	2220	269	2.
1	0340	45	2.	*	1	0955	120	4.	*	1	1610	195	3.	*	1	2225	270	2.
1	0345	46	2.	*	1	1000	121	4.	*	1	1615	196	3.	*	1	2230	271	2.
1	0350	47	2.	*	1	1005	122	5.	*	1	1620	197	3.	*	1	2235	272	2.
1	0355	48	2.	*	1	1010	123	5.	*	1	1625	198	3.	*	1	2240	273	2.
1	0400	49	2.	*	1	1015	124	5.	*	1	1630	199	3.	*	1	2245	274	1.
1	0405	50	2.	*	1	1020	125	5.	*	1	1635	200	3.	*	1	2250	275	1.
1	0410	51	2.	*	1	1025	126	5.	*	1	1640	201	3.	*	1	2255	276	1.
1	0415	52	2.	*	1	1030	127	6.	*	1	1645	202	3.	*	1	2300	277	1.
1	0420	53	2.	*	1	1035	128	6.	*	1	1650	203	3.	*	1	2305	278	1.
1	0425	54	2.	*	1	1040	129	6.	*	1	1655	204	3.	*	1	2310	279	1.
1	0430	55	2.	*	1	1045	130	6.	*	1	1700	205	3.	*	1	2315	280	1.
1	0435	56	2.	*	1	1050	131	7.	*	1	1705	206	3.	*	1	2320	281	1.
1	0440	57	2.	*	1	1055	132	7.	*	1	1710	207	3.	*	1	2325	282	1.
1	0445	58	2.	*	1	1100	133	7.	*	1	1715	208	3.	*	1	2330	283	1.
1	0450	59	2.	*	1	1105	134	8.	*	1	1720	209	3.	*	1	2335	284	1.
1	0455	60	2.	*	1	1110	135	8.	*	1	1725	210	3.	*	1	2340	285	1.
1	0500	61	2.	*	1	1115	136	9.	*	1	1730	211	3.	*	1	2345	286	1.
1	0505	62	2.	*	1	1120	137	10.	*	1	1735	212	3.	*	1	2350	287	1.
1	0510	63	2.	*	1	1125	138	10.	*	1	1740	213	3.	*	1	2355	288	1.
1	0515	64	2.	*	1	1130	139	11.	*	1	1745	214	3.	*	2	0000	289	1.
1	0520	65	2.	*	1	1135	140	29.	*	1	1750	215	2.	*	2	0005	290	1.
1	0525	66	2.	*	1	1140	141	100.	*	1	1755	216	2.	*	2	0010	291	1.
1	0530	67	2.	*	1	1145	142	223.	*	1	1800	217	2.	*	2	0015	292	1.
1	0535	68	2.	*	1	1150	143	398.	*	1	1805	218	2.	*	2	0020	293	1.
1	0540	69	2.	*	1	1155	144	510.	*	1	1810	219	2.	*	2	0025	294	1.
1	0545	70	2.	*	1	1200	145	599.	*	1	1815	220	2.	*	2	0030	295	0.
1	0550	71	2.	*	1	1205	146	650.	*	1	1820	221	2.	*	2	0035	296	0.
1	0555	72	2.	*	1	1210	147	627.	*	1	1825	222	2.	*	2	0040	297	0.
1	0600	73	2.	*	1	1215	148	541.	*	1	1830	223	2.	*	2	0045	298	0.
1	0605	74	2.	*	1	1220	149	389.	*	1	1835	224	2.	*	2	0050	299	0.
1	0610	75	2.	*	1	1225	150	298.	*	1	1840	225	2.	*	2	0055	300	0.
				*					*					*				

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

650.	12.08	(CFS)	78.	21.	20.	20.
		(INCHES)	1.335	1.443	1.443	1.443
		(AC-FT)	38.	42.	42.	42.

CUMULATIVE AREA = .54 SQ MI

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          *            *
733 KK    *        1M  *
          *            *
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Combining M1 & M2 & M3

735 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

[redacted] HC HYDROGRAPH COMBINATION

ICOMP	3	NUMBER OF HYDROGRAPHS TO COMBINE

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

HYDROGRAPH AT STATION 1M
TRANSPOSITION AREA .0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
3745.	12.42	(CFS)	902.	257.	248.	248.
		(INCHES)	1.513	1.724	1.725	1.725
		(AC-FT)	447.	509.	510.	510.

CUMULATIVE AREA = 5.54 SQ MI

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HYDROGRAPH AT STATION 1M
TRANSPOSITION AREA 5.0 SQ MI

[redacted]AK FLOW	TIME		MAXIMUM AVERAGE FLOW			
[redacted]CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
3646.	12.42	(CFS)	878.	250.	241.	241.
		(INCHES)	1.473	1.680	1.681	1.681
		(AC-FT)	435.	496.	497.	497.

CUMULATIVE AREA = 5.54 SQ MI

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HYDROGRAPH AT STATION 1M
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
3487.	12.42	(CFS)	840.	240.	231.	231.
		(INCHES)	1.410	1.610	1.612	1.612
		(AC-FT)	417.	476.	476.	476.

CUMULATIVE AREA = 5.54 SQ MI

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

HYDROGRAPH AT STATION 1M
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
3127.	12.42	(CFS)	757.	217.	209.	209.
		(INCHES)	1.271	1.456	1.457	1.457
		(AC-FT)	375.	430.	431.	431.

CUMULATIVE AREA = 5.54 SQ MI

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HYDROGRAPH AT STATION 1M
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
2964.	12.42	(CFS)	719.	207.	199.	199.
		(INCHES)	1.207	1.386	1.387	1.387
		(AC-FT)	357.	410.	410.	410.

CUMULATIVE AREA = 5.54 SQ MI

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HYDROGRAPH AT STATION 1M
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
2596.	12.42	(CFS)	634.	183.	177.	177.
		(INCHES)	1.065	1.229	1.230	1.230
		(AC-FT)	315.	363.	363.	363.

CUMULATIVE AREA = 5.54 SQ MI

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INTERPOLATED HYDROGRAPH AT 1M

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	41.	1		1230	151	3585.	1		1845	226	46.
1		0005	2	0.	1		0620	77	41.	1		1235	152	3455.	1		1850	227	45.
1		0010	3	1.	1		0625	78	42.	1		1240	153	3237.	1		1855	228	45.
1		0015	4	1.	1		0630	79	42.	1		1245	154	2903.	1		1900	229	44.
1		0020	5	2.	1		0635	80	42.	1		1250	155	2535.	1		1905	230	44.
1		0025	6	3.	1		0640	81	43.	1		1255	156	2234.	1		1910	231	43.
1		0030	7	5.	1		0645	82	43.	1		1300	157	2028.	1		1915	232	43.
1		0035	8	6.	1		0650	83	43.	1		1305	158	1855.	1		1920	233	43.
1		0040	9	8.	1		0655	84	43.	1		1310	159	1686.	1		1925	234	42.
1		0045	10	10.	1		0700	85	44.	1		1315	160	1522.	1		1930	235	42.
1		0050	11	12.	1		0705	86	44.	1		1320	161	1369.	1		1935	236	42.
1		0055	12	14.	1		0710	87	44.	1		1325	162	1232.	1		1940	237	42.
1		0100	13	15.	1		0715	88	45.	1		1330	163	1118.	1		1945	238	41.
1		0105	14	17.	1		0720	89	45.	1		1335	164	1011.	1		1950	239	41.
1		0110	15	18.	1		0725	90	46.	1		1340	165	916.	1		1955	240	41.
1		0115	16	19.	1		0730	91	46.	1		1345	166	829.	1		2000	241	40.
1		0120	17	20.	1		0735	92	47.	1		1350	167	754.	1		2005	242	40.
1		0125	18	21.	1		0740	93	48.	1		1355	168	686.	1		2010	243	39.
1		0130	19	22.	1		0745	94	49.	1		1400	169	620.	1		2015	244	39.
1		0135	20	22.	1		0750	95	49.	1		1405	170	564.	1		2020	245	38.
1		0140	21	23.	1		0755	96	50.	1		1410	171	510.	1		2025	246	38.
1		0145	22	23.	1		0800	97	51.	1		1415	172	474.	1		2030	247	38.
1		0150	23	24.	1		0805	98	51.	1		1420	173	438.	1		2035	248	37.
1		0155	24	24.	1		0810	99	52.	1		1425	174	396.	1		2040	249	37.
1		0200	25	24.	1		0815	100	52.	1		1430	175	360.	1		2045	250	37.
1		0205	26	25.	1		0820	101	53.	1		1435	176	328.	1		2050	251	36.
1		0210	27	25.	1		0825	102	54.	1		1440	177	305.	1		2055	252	36.
1		0215	28	26.	1		0830	103	55.	1		1445	178	283.	1		2100	253	35.
1		0220	29	26.	1		0835	104	56.	1		1450	179	260.	1		2105	254	35.
1		0225	30	27.	1		0840	105	57.	1		1455	180	242.	1		2110	255	35.
1		0230	31	27.	1		0845	106	58.	1		1500	181	227.	1		2115	256	34.
1		0235	32	28.	1		0850	107	59.	1		1505	182	212.	1		2120	257	34.
1		0240	33	28.	1		0855	108	60.	1		1510	183	197.	1		2125	258	34.
1		0245	34	28.	1		0900	109	61.	1		1515	184	182.	1		2130	259	34.
1		0250	35	29.	1		0905	110	62.	1		1520	185	167.	1		2135	260	34.
1		0255	36	29.	1		0910	111	63.	1		1525	186	160.	1		2140	261	34.
1		0300	37	30.	1		0915	112	64.	1		1530	187	153.	1		2145	262	34.
1		0305	38	30.	1		0920	113	65.	1		1535	188	147.	1		2150	263	34.
1		0310	39	30.	1		0925	114	66.	1		1540	189	140.	1		2155	264	34.
1		0315	40	31.	1		0930	115	67.	1		1545	190	133.	1		2200	265	33.
1		0320	41	31.	1		0935	116	69.	1		1550	191	131.	1		2205	266	33.
1		0325	42	31.	1		0940	117	70.	1		1555	192	129.	1		2210	267	33.
1		0330	43	31.	1		0945	118	71.	1		1600	193	119.	1		2215	268	33.
1		0335	44	31.	1		0950	119	73.	1		1605	194	109.	1		2220	269	32.
1		0340	45	31.	1		0955	120	74.	1		1610	195	100.	1		2225	270	32.
1		0345	46	31.	1		1000	121	76.	1		1615	196	90.	1		2230	271	32.
1		0350	47	31.	1		1005	122	77.	1		1620	197	81.	1		2235	272	32.
1		0355	48	32.	1		1010	123	79.	1		1625	198	71.	1		2240	273	31.
1		0400	49	32.	1		1015	124	81.	1		1630	199	70.	1		2245	274	31.
1		0405	50	32.	1		1020	125	83.	1		1635	200	68.	1		2250	275	31.
1		0410	51	32.	1		1025	126	85.	1		1640	201	67.	1		2255	276	30.
1		0415	52	33.	1		1030	127	87.	1		1645	202	65.	1		2300	277	30.
1		0420	53	33.	1		1035	128	90.	1		1650	203	64.	1		2305	278	30.

1	0425	54	34.	*	1	1040	129	93.	*	1	1655	204	63.	*	1	2310	279	29.
1	0430	55	34.	*	1	1045	130	96.	*	1	1700	205	62.	*	1	2315	280	29.
1	0435	56	35.	*	1	1050	131	100.	*	1	1705	206	61.	*	1	2320	281	29.
1	0440	57	35.	*	1	1055	132	104.	*	1	1710	207	60.	*	1	2325	282	29.
1	0445	58	36.	*	1	1100	133	108.	*	1	1715	208	60.	*	1	2330	283	29.
1	0450	59	36.	*	1	1105	134	113.	*	1	1720	209	59.	*	1	2335	284	29.
1	0455	60	36.	*	1	1110	135	118.	*	1	1725	210	58.	*	1	2340	285	29.
1	0500	61	36.	*	1	1115	136	124.	*	1	1730	211	57.	*	1	2345	286	29.
1	0505	62	36.	*	1	1120	137	132.	*	1	1735	212	57.	*	1	2350	287	29.
1	0510	63	36.	*	1	1125	138	139.	*	1	1740	213	56.	*	1	2355	288	29.
1	0515	64	36.	*	1	1130	139	147.	*	1	1745	214	55.	*	2	0000	289	28.
1	0520	65	36.	*	1	1135	140	232.	*	1	1750	215	54.	*	2	0005	290	28.
1	0525	66	36.	*	1	1140	141	371.	*	1	1755	216	54.	*	2	0010	291	27.
1	0530	67	37.	*	1	1145	142	616.	*	1	1800	217	53.	*	2	0015	292	26.
1	0535	68	37.	*	1	1150	143	1013.	*	1	1805	218	52.	*	2	0020	293	25.
1	0540	69	37.	*	1	1155	144	1436.	*	1	1810	219	51.	*	2	0025	294	24.
1	0545	70	38.	*	1	1200	145	1919.	*	1	1815	220	51.	*	2	0030	295	22.
1	0550	71	38.	*	1	1205	146	2359.	*	1	1820	221	50.	*	2	0035	296	21.
1	0555	72	39.	*	1	1210	147	2802.	*	1	1825	222	49.	*	2	0040	297	19.
1	0600	73	39.	*	1	1215	148	3215.	*	1	1830	223	48.	*	2	0045	298	17.
1	0605	74	40.	*	1	1220	149	3477.	*	1	1835	224	47.	*	2	0050	299	15.
1	0610	75	40.	*	1	1225	150	3623.	*	1	1840	225	47.	*	2	0055	300	13.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
3623.	12.42	(CFS)	872.	249.	240.	240.
		(INCHES)	1.464	1.670	1.671	1.671
		(AC-FT)	433.	493.	494.	494.

CUMULATIVE AREA = 5.54 SQ MI

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          *            *
737 KK    *     1M-2M  *       Routing thru M4
          *            *
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738 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

HYDROGRAPH ROUTING DATA

739 RS STORAGE ROUTING

NSTPS	24	NUMBER OF SUBREACHES

ITYP	FLOW	TYPE OF INITIAL CONDITION
RSVRIC	.00	INITIAL CONDITION
X	.00	WORKING R AND D COEFFICIENT

RC NORMAL DEPTH CHANNEL

ANL	.047	LEFT OVERBANK N-VALUE
ANCH	.042	MAIN CHANNEL N-VALUE
ANR	.047	RIGHT OVERBANK N-VALUE
RLNTH	36390.	REACH LENGTH
SEL	.0152	ENERGY SLOPE
ELMAX	.0	MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

CROSS-SECTION DATA

		--- LEFT OVERBANK ---	+	------ MAIN CHANNEL -------	+	--- RIGHT OVERBANK ---			
742 RY	ELEVATION	15.00	14.00	13.00	10.00	10.00	12.00	15.00	17.00
741 RX	DISTANCE	.00	110.00	240.00	252.00	262.00	274.00	404.00	514.00

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COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	3.64	8.42	14.34	21.38	29.56	39.57	54.55	74.90	105.87
OUTFLOW	.00	8.88	30.54	65.08	113.69	177.70	265.05	384.10	541.57	766.80
ELEVATION	10.00	10.37	10.74	11.11	11.47	11.84	12.21	12.58	12.95	13.32
STORAGE	156.35	226.45	314.78	420.49	542.57	672.70	809.07	951.68	1100.52	1255.60
OUTFLOW	1092.73	1555.40	2186.74	3003.70	4067.09	5403.50	6957.97	8728.59	10715.19	12918.70
ELEVATION	13.68	14.05	14.42	14.79	15.16	15.53	15.89	16.26	16.63	17.00

WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 6958. TO 12919.
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 1M-2M
TRANSPOSITION AREA .0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2960.	14.08	(CFS)	901.	253.	244.	244.
		(INCHES)	1.512	1.699	1.699	1.699
		(AC-FT)	447.	502.	502.	502.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
17.	14.08	5.	2.	2.	2.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
14.77	14.08	12.85	11.26	11.21	11.21

CUMULATIVE AREA = 5.54 SQ MI

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HYDROGRAPH AT STATION 1M-2M
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2882.	14.08	(CFS)	877.	247.	238.	238.
		(INCHES)	1.472	1.655	1.655	1.655
		(AC-FT)	435.	489.	489.	489.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
17.	14.08	5.	2.	2.	2.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
14.73	14.08	12.83	11.25	11.20	11.20

CUMULATIVE AREA = 5.54 SQ MI

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HYDROGRAPH AT STATION 1M-2M
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2753.	14.08	(CFS)	839.	236.	228.	228.
		(INCHES)	1.409	1.586	1.586	1.586
		(AC-FT)	416.	469.	469.	469.

STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
16.	14.08	5.	2.	1.	1.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
14.68	14.08	12.79	11.23	11.18	11.18

CUMULATIVE AREA = 5.54 SQ MI

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

HYDROGRAPH AT STATION 1M-2M
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2452.	14.17	(CFS)	756.	213.	206.	206.
		(INCHES)	1.269	1.433	1.433	1.433
		(AC-FT)	375.	423.	423.	423.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
15.	14.17	5.	1.	1.	1.

K STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
14.54	14.17	12.70	11.18	11.14	11.14

CUMULATIVE AREA = 5.54 SQ MI

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

HYDROGRAPH AT STATION 1M-2M
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2321.	14.17	(CFS)	719.	203.	196.	196.
		(INCHES)	1.206	1.364	1.364	1.364
		(AC-FT)	356.	403.	403.	403.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
14.	14.17	4.	1.	1.	1.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
14.48	14.17	12.65	11.16	11.12	11.12

CUMULATIVE AREA = 5.54 SQ MI

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

HYDROGRAPH AT STATION 1M-2M
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2018.	14.25	(CFS)	634.	180.	173.	173.
		(INCHES)	1.063	1.208	1.208	1.208
		(AC-FT)	314.	357.	357.	357.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
12.	14.25	4.	1.	1.	1.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
14.32	14.25	12.55	11.11	11.07	11.07

CUMULATIVE AREA = 5.54 SQ MI

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INTERPOLATED HYDROGRAPH AT 1M-2M

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	33.	*	1		1230	151	106.	*	1		1845	226	65.
1		0005	2	0.	*	1		0620	77	33.	*	1		1235	152	119.	*	1		1850	227	65.
1		0010	3	0.	*	1		0625	78	34.	*	1		1240	153	144.	*	1		1855	228	64.
1		0015	4	0.	*	1		0630	79	34.	*	1		1245	154	181.	*	1		1900	229	63.
1		0020	5	0.	*	1		0635	80	34.	*	1		1250	155	234.	*	1		1905	230	62.
1		0025	6	0.	*	1		0640	81	35.	*	1		1255	156	294.	*	1		1910	231	61.

1	0030	7	0.	*	1	0645	82	35.	*	1	1300	157	363.	*	1	1915	232	61.
1	0035	8	0.	*	1	0650	83	35.	*	1	1305	158	448.	*	1	1920	233	60.
1	0040	9	0.	*	1	0655	84	35.	*	1	1310	159	547.	*	1	1925	234	59.
1	0045	10	0.	*	1	0700	85	36.	*	1	1315	160	659.	*	1	1930	235	58.
1	0050	11	0.	*	1	0705	86	36.	*	1	1320	161	792.	*	1	1935	236	57.
1	0055	12	0.	*	1	0710	87	36.	*	1	1325	162	951.	*	1	1940	237	57.
1	0100	13	0.	*	1	0715	88	36.	*	1	1330	163	1173.	*	1	1945	238	56.
1	0105	14	0.	*	1	0720	89	37.	*	1	1335	164	1463.	*	1	1950	239	55.
1	0110	15	0.	*	1	0725	90	37.	*	1	1340	165	1815.	*	1	1955	240	54.
1	0115	16	0.	*	1	0730	91	37.	*	1	1345	166	2172.	*	1	2000	241	53.
1	0120	17	0.	*	1	0735	92	37.	*	1	1350	167	2492.	*	1	2005	242	53.
1	0125	18	0.	*	1	0740	93	38.	*	1	1355	168	2711.	*	1	2010	243	52.
1	0130	19	0.	*	1	0745	94	38.	*	1	1400	169	2830.	*	1	2015	244	51.
1	0135	20	0.	*	1	0750	95	38.	*	1	1405	170	2863.	*	1	2020	245	50.
1	0140	21	0.	*	1	0755	96	39.	*	1	1410	171	2827.	*	1	2025	246	50.
1	0145	22	0.	*	1	0800	97	39.	*	1	1415	172	2741.	*	1	2030	247	49.
1	0150	23	0.	*	1	0805	98	39.	*	1	1420	173	2620.	*	1	2035	248	48.
1	0155	24	0.	*	1	0810	99	40.	*	1	1425	174	2481.	*	1	2040	249	48.
1	0200	25	0.	*	1	0815	100	40.	*	1	1430	175	2337.	*	1	2045	250	47.
1	0205	26	0.	*	1	0820	101	41.	*	1	1435	176	2198.	*	1	2050	251	46.
1	0210	27	0.	*	1	0825	102	41.	*	1	1440	177	2070.	*	1	2055	252	46.
1	0215	28	0.	*	1	0830	103	41.	*	1	1445	178	1941.	*	1	2100	253	45.
1	0220	29	0.	*	1	0835	104	42.	*	1	1450	179	1813.	*	1	2105	254	45.
1	0225	30	0.	*	1	0840	105	42.	*	1	1455	180	1691.	*	1	2110	255	44.
1	0230	31	0.	*	1	0845	106	43.	*	1	1500	181	1579.	*	1	2115	256	44.
1	0235	32	0.	*	1	0850	107	43.	*	1	1505	182	1479.	*	1	2120	257	43.
1	0240	33	0.	*	1	0855	108	43.	*	1	1510	183	1380.	*	1	2125	258	43.
1	0245	34	0.	*	1	0900	109	44.	*	1	1515	184	1281.	*	1	2130	259	43.
1	0250	35	0.	*	1	0905	110	44.	*	1	1520	185	1182.	*	1	2135	260	42.
1	0255	36	0.	*	1	0910	111	44.	*	1	1525	186	1085.	*	1	2140	261	42.
1	0300	37	0.	*	1	0915	112	45.	*	1	1530	187	989.	*	1	2145	262	41.
1	0305	38	0.	*	1	0920	113	45.	*	1	1535	188	891.	*	1	2150	263	41.
1	0310	39	0.	*	1	0925	114	46.	*	1	1540	189	789.	*	1	2155	264	41.
1	0315	40	0.	*	1	0930	115	46.	*	1	1545	190	683.	*	1	2200	265	40.
1	0320	41	0.	*	1	0935	116	47.	*	1	1550	191	589.	*	1	2205	266	40.
1	0325	42	0.	*	1	0940	117	47.	*	1	1555	192	509.	*	1	2210	267	40.
1	0330	43	0.	*	1	0945	118	48.	*	1	1600	193	442.	*	1	2215	268	39.
1	0335	44	0.	*	1	0950	119	49.	*	1	1605	194	390.	*	1	2220	269	39.
1	0340	45	1.	*	1	0955	120	49.	*	1	1610	195	346.	*	1	2225	270	38.
1	0345	46	1.	*	1	1000	121	50.	*	1	1615	196	309.	*	1	2230	271	38.
1	0350	47	1.	*	1	1005	122	51.	*	1	1620	197	277.	*	1	2235	272	38.
1	0355	48	2.	*	1	1010	123	51.	*	1	1625	198	248.	*	1	2240	273	37.
1	0400	49	2.	*	1	1015	124	52.	*	1	1630	199	224.	*	1	2245	274	37.
1	0405	50	3.	*	1	1020	125	53.	*	1	1635	200	206.	*	1	2250	275	37.
1	0410	51	5.	*	1	1025	126	54.	*	1	1640	201	193.	*	1	2255	276	36.
1	0415	52	7.	*	1	1030	127	55.	*	1	1645	202	182.	*	1	2300	277	36.
1	0420	53	10.	*	1	1035	128	55.	*	1	1650	203	174.	*	1	2305	278	36.
1	0425	54	14.	*	1	1040	129	56.	*	1	1655	204	167.	*	1	2310	279	35.
1	0430	55	17.	*	1	1045	130	57.	*	1	1700	205	160.	*	1	2315	280	35.
1	0435	56	20.	*	1	1050	131	58.	*	1	1705	206	153.	*	1	2320	281	35.
1	0440	57	21.	*	1	1055	132	59.	*	1	1710	207	147.	*	1	2325	282	35.
1	0445	58	23.	*	1	1100	133	61.	*	1	1715	208	140.	*	1	2330	283	34.
1	0450	59	24.	*	1	1105	134	62.	*	1	1720	209	134.	*	1	2335	284	34.
1	0455	60	25.	*	1	1110	135	63.	*	1	1725	210	128.	*	1	2340	285	34.
1	0500	61	26.	*	1	1115	136	65.	*	1	1730	211	122.	*	1	2345	286	34.
1	0505	62	26.	*	1	1120	137	67.	*	1	1735	212	117.	*	1	2350	287	34.
1	0510	63	27.	*	1	1125	138	69.	*	1	1740	213	112.	*	1	2355	288	33.
1	0515	64	27.	*	1	1130	139	71.	*	1	1745	214	107.	*	2	0000	289	33.
1	0520	65	28.	*	1	1135	140	73.	*	1	1750	215	103.	*	2	0005	290	33.
1	0525	66	28.	*	1	1140	141	74.	*	1	1755	216	98.	*	2	0010	291	33.

1	0530	67	29.	*	1	1145	142	76.	*	1	1800	217	92.	*	2	0015	292	33.
1	0535	68	29.	*	1	1150	143	78.	*	1	1805	218	88.	*	2	0020	293	32.
1	0540	69	30.	*	1	1155	144	80.	*	1	1810	219	83.	*	2	0025	294	32.
1	0545	70	30.	*	1	1200	145	82.	*	1	1815	220	79.	*	2	0030	295	32.
1	0550	71	31.	*	1	1205	146	84.	*	1	1820	221	75.	*	2	0035	296	32.
1	0555	72	31.	*	1	1210	147	87.	*	1	1825	222	72.	*	2	0040	297	32.
1	0600	73	32.	*	1	1215	148	90.	*	1	1830	223	70.	*	2	0045	298	31.
1	0605	74	32.	*	1	1220	149	93.	*	1	1835	224	68.	*	2	0050	299	31.
1	0610	75	32.	*	1	1225	150	98.	*	1	1840	225	67.	*	2	0055	300	31.
				*					*					*				

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2863.	14.08	(CFS)	871.	245.	236.	236.
		(INCHES)	1.462	1.645	1.645	1.645
		(AC-FT)	432.	486.	486.	486.

CUMULATIVE AREA = 5.54 SQ MI

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          *            *
743 KK    *        M4  *
          *            *
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BASIN M4
THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
L= 6.9 Lca= 2.6 S= 80.0 Kn= .065 LAG= 122.0
PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN

748 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

SUBBASIN RUNOFF DATA

749 BA SUBBASIN CHARACTERISTICS

TAREA	8.18	SUBBASIN AREA

750 LG GREEN AND AMPT LOSS RATE

STRTL	.17	STARTING LOSS
DTH	.35	MOISTURE DEFICIT
PSIF	4.30	WETTING FRONT SUCTION
XKSAT	.42	HYDRAULIC CONDUCTIVITY
RTIMP	1.00	PERCENT IMPERVIOUS AREA

749 UI INPUT UNITGRAPH, 72 ORDINATES, VOLUME = 1.00

226.0	226.0	226.0	226.0	226.0	426.0	742.0	826.0	903.0	1039.0
1105.0	1192.0	1255.0	1319.0	1393.0	1488.0	1603.0	1705.0	1791.0	1990.0
2252.0	2623.0	2848.0	2960.0	2638.0	2399.0	2211.0	2060.0	1947.0	1834.0
1754.0	1624.0	1504.0	1412.0	1334.0	1240.0	1148.0	1087.0	1029.0	866.0
737.0	649.0	489.0	400.0	400.0	386.0	371.0	371.0	363.0	226.0
226.0	226.0	226.0	226.0	157.0	69.0	69.0	69.0	69.0	69.0
69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
69.0	69.0								

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HYDROGRAPH AT STATION M4
TRANSPOSITION AREA .0 SQ MI

TOTAL RAINFALL = 4.20, TOTAL LOSS = 3.04, TOTAL EXCESS = 1.16

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2992.	13.67	(CFS)	1008.	255.	246.	246.
		(INCHES)	1.146	1.161	1.161	1.161
		(AC-FT)	500.	507.	507.	507.

CUMULATIVE AREA = 8.18 SQ MI

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HYDROGRAPH AT STATION M4
TRANSPOSITION AREA 5.0 SQ MI

TOTAL RAINFALL = 4.12, TOTAL LOSS = 2.99, TOTAL EXCESS = 1.13

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2900.	13.67	(CFS)	978.	248.	239.	239.
		(INCHES)	1.111	1.126	1.126	1.126
		(AC-FT)	485.	491.	491.	491.

CUMULATIVE AREA = 8.18 SQ MI

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HYDROGRAPH AT STATION M4
TRANSPOSITION AREA 10.0 SQ MI

TOTAL RAINFALL = 3.99, TOTAL LOSS = 2.92, TOTAL EXCESS = 1.07

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2752.	13.67	(CFS)	928.	235.	226.	226.
		(INCHES)	1.055	1.069	1.069	1.069
		(AC-FT)	460.	466.	466.	466.

CUMULATIVE AREA = 8.18 SQ MI

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HYDROGRAPH AT STATION M4
TRANSPOSITION AREA 50.0 SQ MI

TOTAL RAINFALL = 3.70, TOTAL LOSS = 2.76, TOTAL EXCESS = .94

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2418.	13.75	(CFS)	815.	207.	199.	199.
		(INCHES)	.926	.940	.940	.940
		(AC-FT)	404.	410.	410.	410.

CUMULATIVE AREA = 8.18 SQ MI

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HYDROGRAPH AT STATION M4
TRANSPOSITION AREA 100.0 SQ MI

TOTAL RAINFALL = 3.57, TOTAL LOSS = 2.69, TOTAL EXCESS = .88

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2267.	13.75	(CFS)	764.	194.	187.	187.
		(INCHES)	.868	.881	.881	.881
		(AC-FT)	379.	384.	384.	384.

CUMULATIVE AREA = 8.18 SQ MI

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HYDROGRAPH AT STATION M4
TRANSPOSITION AREA 500.0 SQ MI

TOTAL RAINFALL = 3.28, TOTAL LOSS = 2.53, TOTAL EXCESS = .75

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1925.	13.75	(CFS)	648.	165.	159.	159.
		(INCHES)	.737	.748	.748	.748
		(AC-FT)	321.	326.	326.	326.

CUMULATIVE AREA = 8.18 SQ MI

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INTERPOLATED HYDROGRAPH AT M4

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	3.	*	1		1230	151	1034.	*	1		1845	226	5.
1		0005	2	0.	*	1		0620	77	3.	*	1		1235	152	1125.	*	1		1850	227	5.
1		0010	3	0.	*	1		0625	78	3.	*	1		1240	153	1213.	*	1		1855	228	5.
1		0015	4	0.	*	1		0630	79	3.	*	1		1245	154	1301.	*	1		1900	229	5.
1		0020	5	0.	*	1		0635	80	3.	*	1		1250	155	1380.	*	1		1905	230	4.

1	0025	6	0.	*	1	0640	81	3.	*	1	1255	156	1469.	*	1	1910	231	4.
1	0030	7	0.	*	1	0645	82	3.	*	1	1300	157	1559.	*	1	1915	232	4.
1	0035	8	0.	*	1	0650	83	3.	*	1	1305	158	1654.	*	1	1920	233	4.
1	0040	9	0.	*	1	0655	84	3.	*	1	1310	159	1772.	*	1	1925	234	4.
1	0045	10	0.	*	1	0700	85	3.	*	1	1315	160	1923.	*	1	1930	235	4.
1	0050	11	0.	*	1	0705	86	3.	*	1	1320	161	2121.	*	1	1935	236	4.
1	0055	12	0.	*	1	0710	87	3.	*	1	1325	162	2339.	*	1	1940	237	4.
1	0100	13	0.	*	1	0715	88	3.	*	1	1330	163	2561.	*	1	1945	238	4.
1	0105	14	0.	*	1	0720	89	3.	*	1	1335	164	2716.	*	1	1950	239	4.
1	0110	15	0.	*	1	0725	90	3.	*	1	1340	165	2795.	*	1	1955	240	4.
1	0115	16	0.	*	1	0730	91	4.	*	1	1345	166	2794.	*	1	2000	241	4.
1	0120	17	0.	*	1	0735	92	4.	*	1	1350	167	2698.	*	1	2005	242	4.
1	0125	18	1.	*	1	0740	93	4.	*	1	1355	168	2540.	*	1	2010	243	4.
1	0130	19	1.	*	1	0745	94	4.	*	1	1400	169	2339.	*	1	2015	244	4.
1	0135	20	1.	*	1	0750	95	4.	*	1	1405	170	2182.	*	1	2020	245	4.
1	0140	21	1.	*	1	0755	96	4.	*	1	1410	171	2044.	*	1	2025	246	4.
1	0145	22	1.	*	1	0800	97	4.	*	1	1415	172	1919.	*	1	2030	247	4.
1	0150	23	1.	*	1	0805	98	4.	*	1	1420	173	1804.	*	1	2035	248	4.
1	0155	24	1.	*	1	0810	99	4.	*	1	1425	174	1695.	*	1	2040	249	4.
1	0200	25	1.	*	1	0815	100	4.	*	1	1430	175	1589.	*	1	2045	250	4.
1	0205	26	1.	*	1	0820	101	4.	*	1	1435	176	1482.	*	1	2050	251	3.
1	0210	27	1.	*	1	0825	102	4.	*	1	1440	177	1386.	*	1	2055	252	3.
1	0215	28	1.	*	1	0830	103	4.	*	1	1445	178	1301.	*	1	2100	253	3.
1	0220	29	1.	*	1	0835	104	4.	*	1	1450	179	1205.	*	1	2105	254	3.
1	0225	30	2.	*	1	0840	105	4.	*	1	1455	180	1099.	*	1	2110	255	3.
1	0230	31	2.	*	1	0845	106	4.	*	1	1500	181	995.	*	1	2115	256	3.
1	0235	32	2.	*	1	0850	107	4.	*	1	1505	182	879.	*	1	2120	257	3.
1	0240	33	2.	*	1	0855	108	4.	*	1	1510	183	757.	*	1	2125	258	3.
1	0245	34	2.	*	1	0900	109	4.	*	1	1515	184	644.	*	1	2130	259	3.
1	0250	35	2.	*	1	0905	110	4.	*	1	1520	185	558.	*	1	2135	260	3.
1	0255	36	2.	*	1	0910	111	4.	*	1	1525	186	491.	*	1	2140	261	3.
1	0300	37	2.	*	1	0915	112	4.	*	1	1530	187	440.	*	1	2145	262	3.
1	0305	38	2.	*	1	0920	113	5.	*	1	1535	188	417.	*	1	2150	263	3.
1	0310	39	2.	*	1	0925	114	5.	*	1	1540	189	387.	*	1	2155	264	3.
1	0315	40	2.	*	1	0930	115	5.	*	1	1545	190	356.	*	1	2200	265	3.
1	0320	41	2.	*	1	0935	116	5.	*	1	1550	191	328.	*	1	2205	266	3.
1	0325	42	2.	*	1	0940	117	5.	*	1	1555	192	301.	*	1	2210	267	3.
1	0330	43	2.	*	1	0945	118	5.	*	1	1600	193	275.	*	1	2215	268	3.
1	0335	44	2.	*	1	0950	119	5.	*	1	1605	194	238.	*	1	2220	269	3.
1	0340	45	2.	*	1	0955	120	5.	*	1	1610	195	211.	*	1	2225	270	3.
1	0345	46	2.	*	1	1000	121	5.	*	1	1615	196	183.	*	1	2230	271	3.
1	0350	47	2.	*	1	1005	122	5.	*	1	1620	197	155.	*	1	2235	272	3.
1	0355	48	2.	*	1	1010	123	5.	*	1	1625	198	127.	*	1	2240	273	3.
1	0400	49	2.	*	1	1015	124	5.	*	1	1630	199	98.	*	1	2245	274	3.
1	0405	50	2.	*	1	1020	125	6.	*	1	1635	200	81.	*	1	2250	275	3.
1	0410	51	2.	*	1	1025	126	6.	*	1	1640	201	81.	*	1	2255	276	3.
1	0415	52	3.	*	1	1030	127	6.	*	1	1645	202	81.	*	1	2300	277	3.
1	0420	53	3.	*	1	1035	128	6.	*	1	1650	203	81.	*	1	2305	278	3.
1	0425	54	3.	*	1	1040	129	6.	*	1	1655	204	81.	*	1	2310	279	3.
1	0430	55	3.	*	1	1045	130	6.	*	1	1700	205	80.	*	1	2315	280	3.
1	0435	56	3.	*	1	1050	131	6.	*	1	1705	206	80.	*	1	2320	281	3.
1	0440	57	3.	*	1	1055	132	6.	*	1	1710	207	80.	*	1	2325	282	3.
1	0445	58	3.	*	1	1100	133	7.	*	1	1715	208	80.	*	1	2330	283	3.
1	0450	59	3.	*	1	1105	134	7.	*	1	1720	209	80.	*	1	2335	284	3.
1	0455	60	3.	*	1	1110	135	7.	*	1	1725	210	80.	*	1	2340	285	3.
1	0500	61	3.	*	1	1115	136	7.	*	1	1730	211	79.	*	1	2345	286	3.
1	0505	62	3.	*	1	1120	137	7.	*	1	1735	212	68.	*	1	2350	287	3.
1	0510	63	3.	*	1	1125	138	8.	*	1	1740	213	56.	*	1	2355	288	3.
1	0515	64	3.	*	1	1130	139	8.	*	1	1745	214	43.	*	2	0000	289	3.
1	0520	65	3.	*	1	1135	140	46.	*	1	1750	215	31.	*	2	0005	290	3.

1	0525	66	3.	*	1	1140	141	86.	*	1	1755	216	18.	*	2	0010	291	3.
1	0530	67	3.	*	1	1145	142	126.	*	1	1800	217	6.	*	2	0015	292	3.
1	0535	68	3.	*	1	1150	143	166.	*	1	1805	218	5.	*	2	0020	293	2.
1	0540	69	3.	*	1	1155	144	208.	*	1	1810	219	5.	*	2	0025	294	2.
1	0545	70	3.	*	1	1200	145	283.	*	1	1815	220	5.	*	2	0030	295	2.
1	0550	71	3.	*	1	1205	146	371.	*	1	1820	221	5.	*	2	0035	296	2.
1	0555	72	3.	*	1	1210	147	476.	*	1	1825	222	5.	*	2	0040	297	2.
1	0600	73	3.	*	1	1215	148	595.	*	1	1830	223	5.	*	2	0045	298	2.
1	0605	74	3.	*	1	1220	149	739.	*	1	1835	224	5.	*	2	0050	299	2.
1	0610	75	3.	*	1	1225	150	896.	*	1	1840	225	5.	*	2	0055	300	2.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
2795.	13.67	(CFS)	942.	239.	230.	230.
		(INCHES)	1.071	1.085	1.085	1.085
		(AC-FT)	467.	474.	474.	474.

CUMULATIVE AREA = 8.18 SQ MI

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KK * 2M *
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Combining M1+M2+M3 & M4

762 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

763 HC HYDROGRAPH COMBINATION

ICOMP	2	NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 2M
TRANSPOSITION AREA .0 SQ MI

K FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
5553.	13.92	(CFS)	1908.	509.	490.	490.
		(INCHES)	1.293	1.378	1.378	1.378
		(AC-FT)	946.	1009.	1009.	1009.

CUMULATIVE AREA = 13.72 SQ MI

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HYDROGRAPH AT STATION 2M
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
5369.	13.92	(CFS)	1853.	494.	476.	476.
		(INCHES)	1.256	1.340	1.340	1.340
		(AC-FT)	919.	980.	980.	980.

CUMULATIVE AREA = 13.72 SQ MI

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HYDROGRAPH AT STATION 2M
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
5077.	13.92	(CFS)	1766.	471.	454.	454.
		(INCHES)	1.196	1.278	1.278	1.278
		(AC-FT)	876.	935.	935.	935.

CUMULATIVE AREA = 13.72 SQ MI

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HYDROGRAPH AT STATION 2M
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
4417.	13.92	(CFS)	1570.	420.	405.	405.
		(INCHES)	1.064	1.139	1.139	1.139
		(AC-FT)	778.	833.	833.	833.

CUMULATIVE AREA = 13.72 SQ MI

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HYDROGRAPH AT STATION 2M
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
4123.	13.92	(CFS)	1481.	397.	382.	382.
		(INCHES)	1.003	1.076	1.076	1.076
		(AC-FT)	734.	787.	787.	787.

CUMULATIVE AREA = 13.72 SQ MI

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HYDROGRAPH AT STATION 2M
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)					
3485.	14.00	(CFS)	1280.	345.	332.	332.
		(INCHES)	.867	.934	.934	.934
		(AC-FT)	635.	683.	683.	683.

CUMULATIVE AREA = 13.72 SQ MI

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INTERPOLATED HYDROGRAPH AT 2M

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	34.	*	1		1230	151	1093.	*	1		1845	226	69.
1		0005	2	0.	*	1		0620	77	34.	*	1		1235	152	1193.	*	1		1850	227	67.
1		0010	3	0.	*	1		0625	78	35.	*	1		1240	153	1300.	*	1		1855	228	66.
1		0015	4	0.	*	1		0630	79	35.	*	1		1245	154	1419.	*	1		1900	229	65.
1		0020	5	0.	*	1		0635	80	36.	*	1		1250	155	1548.	*	1		1905	230	64.
1		0025	6	0.	*	1		0640	81	36.	*	1		1255	156	1693.	*	1		1910	231	63.
1		0030	7	0.	*	1		0645	82	36.	*	1		1300	157	1848.	*	1		1915	232	63.
1		0035	8	0.	*	1		0650	83	37.	*	1		1305	158	2020.	*	1		1920	233	62.
1		0040	9	0.	*	1		0655	84	37.	*	1		1310	159	2229.	*	1		1925	234	61.
1		0045	10	0.	*	1		0700	85	37.	*	1		1315	160	2480.	*	1		1930	235	60.
1		0050	11	0.	*	1		0705	86	38.	*	1		1320	161	2795.	*	1		1935	236	59.
1		0055	12	0.	*	1		0710	87	38.	*	1		1325	162	3147.	*	1		1940	237	58.
1		0100	13	0.	*	1		0715	88	38.	*	1		1330	163	3553.	*	1		1945	238	57.
1		0105	14	0.	*	1		0720	89	38.	*	1		1335	164	3955.	*	1		1950	239	57.
1		0110	15	0.	*	1		0725	90	39.	*	1		1340	165	4337.	*	1		1955	240	56.
1		0115	16	0.	*	1		0730	91	39.	*	1		1345	166	4664.	*	1		2000	241	55.
1		0120	17	0.	*	1		0735	92	39.	*	1		1350	167	4871.	*	1		2005	242	54.
1		0125	18	1.	*	1		0740	93	40.	*	1		1355	168	4947.	*	1		2010	243	54.
1		0130	19	1.	*	1		0745	94	40.	*	1		1400	169	4891.	*	1		2015	244	53.
1		0135	20	1.	*	1		0750	95	40.	*	1		1405	170	4790.	*	1		2020	245	52.
1		0140	21	1.	*	1		0755	96	41.	*	1		1410	171	4639.	*	1		2025	246	51.
1		0145	22	1.	*	1		0800	97	41.	*	1		1415	172	4448.	*	1		2030	247	51.
1		0150	23	1.	*	1		0805	98	42.	*	1		1420	173	4232.	*	1		2035	248	50.
1		0155	24	1.	*	1		0810	99	42.	*	1		1425	174	4002.	*	1		2040	249	49.
1		0200	25	1.	*	1		0815	100	42.	*	1		1430	175	3770.	*	1		2045	250	48.
1		0205	26	1.	*	1		0820	101	43.	*	1		1435	176	3539.	*	1		2050	251	48.
1		0210	27	1.	*	1		0825	102	43.	*	1		1440	177	3324.	*	1		2055	252	47.
1		0215	28	1.	*	1		0830	103	44.	*	1		1445	178	3116.	*	1		2100	253	47.
1		0220	29	1.	*	1		0835	104	44.	*	1		1450	179	2900.	*	1		2105	254	46.
1		0225	30	1.	*	1		0840	105	44.	*	1		1455	180	2683.	*	1		2110	255	46.
1		0230	31	2.	*	1		0845	106	45.	*	1		1500	181	2477.	*	1		2115	256	45.
1		0235	32	2.	*	1		0850	107	45.	*	1		1505	182	2268.	*	1		2120	257	45.
1		0240	33	2.	*	1		0855	108	46.	*	1		1510	183	2052.	*	1		2125	258	44.
1		0245	34	2.	*	1		0900	109	46.	*	1		1515	184	1843.	*	1		2130	259	44.
1		0250	35	2.	*	1		0905	110	46.	*	1		1520	185	1662.	*	1		2135	260	44.
1		0255	36	2.	*	1		0910	111	47.	*	1		1525	186	1502.	*	1		2140	261	43.
1		0300	37	2.	*	1		0915	112	47.	*	1		1530	187	1356.	*	1		2145	262	43.
1		0305	38	2.	*	1		0920	113	48.	*	1		1535	188	1233.	*	1		2150	263	42.

1	0310	39	2.	*	1	0925	114	48.	*	1	1540	189	1100.	*	1	2155	264	42.
1	0315	40	2.	*	1	0930	115	49.	*	1	1545	190	968.	*	1	2200	265	42.
1	0320	41	2.	*	1	0935	116	50.	*	1	1550	191	855.	*	1	2205	266	41.
1	0325	42	2.	*	1	0940	117	50.	*	1	1555	192	757.	*	1	2210	267	41.
1	0330	43	2.	*	1	0945	118	51.	*	1	1600	193	674.	*	1	2215	268	41.
1	0335	44	3.	*	1	0950	119	52.	*	1	1605	194	591.	*	1	2220	269	40.
1	0340	45	3.	*	1	0955	120	52.	*	1	1610	195	525.	*	1	2225	270	40.
1	0345	46	3.	*	1	1000	121	53.	*	1	1615	196	464.	*	1	2230	271	39.
1	0350	47	3.	*	1	1005	122	54.	*	1	1620	197	407.	*	1	2235	272	39.
1	0355	48	4.	*	1	1010	123	55.	*	1	1625	198	353.	*	1	2240	273	39.
1	0400	49	4.	*	1	1015	124	55.	*	1	1630	199	306.	*	1	2245	274	38.
1	0405	50	5.	*	1	1020	125	56.	*	1	1635	200	275.	*	1	2250	275	38.
1	0410	51	6.	*	1	1025	126	57.	*	1	1640	201	263.	*	1	2255	276	38.
1	0415	52	8.	*	1	1030	127	58.	*	1	1645	202	253.	*	1	2300	277	37.
1	0420	53	10.	*	1	1035	128	59.	*	1	1650	203	246.	*	1	2305	278	37.
1	0425	54	14.	*	1	1040	129	60.	*	1	1655	204	238.	*	1	2310	279	37.
1	0430	55	18.	*	1	1045	130	61.	*	1	1700	205	231.	*	1	2315	280	36.
1	0435	56	21.	*	1	1050	131	62.	*	1	1705	206	224.	*	1	2320	281	36.
1	0440	57	23.	*	1	1055	132	63.	*	1	1710	207	217.	*	1	2325	282	36.
1	0445	58	24.	*	1	1100	133	64.	*	1	1715	208	211.	*	1	2330	283	36.
1	0450	59	25.	*	1	1105	134	66.	*	1	1720	209	205.	*	1	2335	284	35.
1	0455	60	26.	*	1	1110	135	67.	*	1	1725	210	199.	*	1	2340	285	35.
1	0500	61	27.	*	1	1115	136	68.	*	1	1730	211	194.	*	1	2345	286	35.
1	0505	62	28.	*	1	1120	137	70.	*	1	1735	212	178.	*	1	2350	287	35.
1	0510	63	28.	*	1	1125	138	72.	*	1	1740	213	162.	*	1	2355	288	35.
1	0515	64	29.	*	1	1130	139	75.	*	1	1745	214	146.	*	2	0000	289	35.
1	0520	65	29.	*	1	1135	140	113.	*	1	1750	215	129.	*	2	0005	290	34.
1	0525	66	30.	*	1	1140	141	153.	*	1	1755	216	112.	*	2	0010	291	34.
1	0530	67	30.	*	1	1145	142	193.	*	1	1800	217	95.	*	2	0015	292	34.
1	0535	68	31.	*	1	1150	143	234.	*	1	1805	218	90.	*	2	0020	293	34.
1	0540	69	31.	*	1	1155	144	276.	*	1	1810	219	85.	*	2	0025	294	34.
1	0545	70	31.	*	1	1200	145	351.	*	1	1815	220	81.	*	2	0030	295	33.
1	0550	71	32.	*	1	1205	146	437.	*	1	1820	221	78.	*	2	0035	296	33.
1	0555	72	32.	*	1	1210	147	540.	*	1	1825	222	75.	*	2	0040	297	33.
1	0600	73	32.	*	1	1215	148	657.	*	1	1830	223	73.	*	2	0045	298	33.
1	0605	74	33.	*	1	1220	149	799.	*	1	1835	224	71.	*	2	0050	299	33.
1	0610	75	34.	*	1	1225	150	955.	*	1	1840	225	70.	*	2	0055	300	32.
				*					*					*				

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
4947.	13.92	(CFS)	1727.	461.	444.	444.
		(INCHES)	1.170	1.250	1.250	1.250
		(AC-FT)	856.	915.	915.	915.

CUMULATIVE AREA = 13.72 SQ MI

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764 KK

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* N1 *
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BASIN N1

THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
L= 2.0 Lca= .8 S= 465.0 Kn= .050 LAG= 27.0
PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN

KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

SUBBASIN RUNOFF DATA

770 BA SUBBASIN CHARACTERISTICS

TAREA	1.46	SUBBASIN AREA

771 LG GREEN AND AMPT LOSS RATE

STRTL	.28	STARTING LOSS
DTH	.35	MOISTURE DEFICIT
PSIF	4.19	WETTING FRONT SUCTION
XKSAT	.38	HYDRAULIC CONDUCTIVITY
RTIMP	8.00	PERCENT IMPERVIOUS AREA

770 UI INPUT UNITGRAPH, 24 ORDINATES, VOLUME = 1.00

183.0	499.0	1049.0	1415.0	1971.0	1250.0	1004.0	834.0	674.0	504.0
423.0	337.0	247.0	206.0	159.0	136.0	89.0	89.0	60.0	35.0
35.0	35.0	35.0	35.0						

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HYDROGRAPH AT STATION N1
TRANSPOSITION AREA .0 SQ MI

TOTAL RAINFALL = 4.20, TOTAL LOSS = 2.80, TOTAL EXCESS = 1.40

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1510.	12.17	(CFS)	204.	55.	53.	53.
		(INCHES)	1.302	1.400	1.401	1.401
		(AC-FT)	101.	109.	109.	109.

CUMULATIVE AREA = 1.46 SQ MI

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HYDROGRAPH AT STATION N1
TRANSPOSITION AREA 5.0 SQ MI

TOTAL RAINFALL = 4.12, TOTAL LOSS = 2.76, TOTAL EXCESS = 1.36

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1467.	12.17	(CFS)	199.	53.	51.	51.

	(INCHES)	1.265	1.361	1.362	1.362
	(AC-FT)	99.	106.	106.	106.

CUMULATIVE AREA = 1.46 SQ MI

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

HYDROGRAPH AT STATION N1
TRANSPOSITION AREA 10.0 SQ MI

TOTAL RAINFALL = 3.99, TOTAL LOSS = 2.69, TOTAL EXCESS = 1.30

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
1396.	12.17	(CFS)	189.	51.	49.	49.
		(INCHES)	1.205	1.298	1.299	1.299
		(AC-FT)	94.	101.	101.	101.

CUMULATIVE AREA = 1.46 SQ MI

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

HYDROGRAPH AT STATION N1
TRANSPOSITION AREA 50.0 SQ MI

TOTAL RAINFALL = 3.70, TOTAL LOSS = 2.54, TOTAL EXCESS = 1.16

K FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
1236.	12.17	(CFS)	168.	45.	44.	44.
		(INCHES)	1.070	1.156	1.157	1.157
		(AC-FT)	83.	90.	90.	90.

CUMULATIVE AREA = 1.46 SQ MI

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

HYDROGRAPH AT STATION N1
TRANSPOSITION AREA 100.0 SQ MI

TOTAL RAINFALL = 3.57, TOTAL LOSS = 2.48, TOTAL EXCESS = 1.09

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
1164.	12.17	(CFS)	158.	43.	41.	41.
		(INCHES)	1.008	1.092	1.092	1.092
		(AC-FT)	79.	85.	85.	85.

CUMULATIVE AREA = 1.46 SQ MI

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

HYDROGRAPH AT STATION N1
TRANSPOSITION AREA 500.0 SQ MI

TOTAL RAINFALL = 3.28, TOTAL LOSS = 2.33, TOTAL EXCESS = .95

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1000.	12.17	(CFS)	136.	37.	36.	36.
		(INCHES)	.869	.946	.946	.946
		(AC-FT)	68.	74.	74.	74.

CUMULATIVE AREA = 1.46 SQ MI

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INTERPOLATED HYDROGRAPH AT N1

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	5.	*	1		1230	151	767.	*	1		1845	226	5.
1		0005	2	0.	*	1		0620	77	5.	*	1		1235	152	622.	*	1		1850	227	5.
1		0010	3	0.	*	1		0625	78	6.	*	1		1240	153	501.	*	1		1855	228	5.
1		0015	4	0.	*	1		0630	79	6.	*	1		1245	154	401.	*	1		1900	229	5.
1		0020	5	1.	*	1		0635	80	6.	*	1		1250	155	327.	*	1		1905	230	5.
1		0025	6	1.	*	1		0640	81	6.	*	1		1255	156	260.	*	1		1910	231	5.
1		0030	7	2.	*	1		0645	82	6.	*	1		1300	157	210.	*	1		1915	232	5.
1		0035	8	2.	*	1		0650	83	6.	*	1		1305	158	172.	*	1		1920	233	5.
1		0040	9	2.	*	1		0655	84	6.	*	1		1310	159	138.	*	1		1925	234	5.
1		0045	10	3.	*	1		0700	85	6.	*	1		1315	160	112.	*	1		1930	235	5.
1		0050	11	3.	*	1		0705	86	6.	*	1		1320	161	91.	*	1		1935	236	5.
1		0055	12	3.	*	1		0710	87	6.	*	1		1325	162	78.	*	1		1940	237	5.
1		0100	13	3.	*	1		0715	88	6.	*	1		1330	163	67.	*	1		1945	238	5.
1		0105	14	3.	*	1		0720	89	6.	*	1		1335	164	54.	*	1		1950	239	5.
1		0110	15	3.	*	1		0725	90	6.	*	1		1340	165	47.	*	1		1955	240	5.
1		0115	16	3.	*	1		0730	91	6.	*	1		1345	166	39.	*	1		2000	241	5.
1		0120	17	3.	*	1		0735	92	6.	*	1		1350	167	31.	*	1		2005	242	5.
1		0125	18	3.	*	1		0740	93	7.	*	1		1355	168	23.	*	1		2010	243	5.
1		0130	19	3.	*	1		0745	94	7.	*	1		1400	169	16.	*	1		2015	244	4.
1		0135	20	3.	*	1		0750	95	7.	*	1		1405	170	15.	*	1		2020	245	4.
1		0140	21	3.	*	1		0755	96	7.	*	1		1410	171	15.	*	1		2025	246	4.
1		0145	22	3.	*	1		0800	97	7.	*	1		1415	172	14.	*	1		2030	247	4.
1		0150	23	3.	*	1		0805	98	7.	*	1		1420	173	14.	*	1		2035	248	4.
1		0155	24	3.	*	1		0810	99	7.	*	1		1425	174	13.	*	1		2040	249	4.
1		0200	25	4.	*	1		0815	100	7.	*	1		1430	175	13.	*	1		2045	250	4.
1		0205	26	4.	*	1		0820	101	7.	*	1		1435	176	12.	*	1		2050	251	4.
1		0210	27	4.	*	1		0825	102	7.	*	1		1440	177	12.	*	1		2055	252	4.
1		0215	28	4.	*	1		0830	103	8.	*	1		1445	178	12.	*	1		2100	253	4.
1		0220	29	4.	*	1		0835	104	8.	*	1		1450	179	11.	*	1		2105	254	4.
1		0225	30	4.	*	1		0840	105	8.	*	1		1455	180	11.	*	1		2110	255	4.
1		0230	31	4.	*	1		0845	106	8.	*	1		1500	181	11.	*	1		2115	256	4.
1		0235	32	4.	*	1		0850	107	8.	*	1		1505	182	11.	*	1		2120	257	4.
1		0240	33	4.	*	1		0855	108	8.	*	1		1510	183	10.	*	1		2125	258	4.
1		0245	34	4.	*	1		0900	109	8.	*	1		1515	184	10.	*	1		2130	259	4.
1		0250	35	4.	*	1		0905	110	8.	*	1		1520	185	10.	*	1		2135	260	4.
1		0255	36	4.	*	1		0910	111	9.	*	1		1525	186	10.	*	1		2140	261	4.
1		0300	37	4.	*	1		0915	112	9.	*	1		1530	187	9.	*	1		2145	262	4.
1		0305	38	4.	*	1		0920	113	9.	*	1		1535	188	9.	*	1		2150	263	4.
1		0310	39	4.	*	1		0925	114	9.	*	1		1540	189	9.	*	1		2155	264	4.
1		0315	40	4.	*	1		0930	115	9.	*	1		1545	190	9.	*	1		2200	265	4.
1		0320	41	4.	*	1		0935	116	9.	*	1		1550	191	9.	*	1		2205	266	4.
1		0325	42	4.	*	1		0940	117	10.	*	1		1555	192	8.	*	1		2210	267	4.

1	0330	43	4.	*	1	0945	118	10.	*	1	1600	193	8.	*	1	2215	268	4.
1	0335	44	4.	*	1	0950	119	10.	*	1	1605	194	8.	*	1	2220	269	4.
1	0340	45	4.	*	1	0955	120	10.	*	1	1610	195	8.	*	1	2225	270	4.
1	0345	46	4.	*	1	1000	121	11.	*	1	1615	196	8.	*	1	2230	271	4.
1	0350	47	4.	*	1	1005	122	11.	*	1	1620	197	8.	*	1	2235	272	4.
1	0355	48	4.	*	1	1010	123	11.	*	1	1625	198	7.	*	1	2240	273	4.
1	0400	49	4.	*	1	1015	124	11.	*	1	1630	199	7.	*	1	2245	274	4.
1	0405	50	4.	*	1	1020	125	12.	*	1	1635	200	7.	*	1	2250	275	4.
1	0410	51	4.	*	1	1025	126	12.	*	1	1640	201	7.	*	1	2255	276	3.
1	0415	52	4.	*	1	1030	127	13.	*	1	1645	202	7.	*	1	2300	277	3.
1	0420	53	4.	*	1	1035	128	13.	*	1	1650	203	7.	*	1	2305	278	3.
1	0425	54	5.	*	1	1040	129	14.	*	1	1655	204	7.	*	1	2310	279	3.
1	0430	55	5.	*	1	1045	130	14.	*	1	1700	205	7.	*	1	2315	280	3.
1	0435	56	5.	*	1	1050	131	15.	*	1	1705	206	7.	*	1	2320	281	3.
1	0440	57	5.	*	1	1055	132	16.	*	1	1710	207	7.	*	1	2325	282	3.
1	0445	58	5.	*	1	1100	133	17.	*	1	1715	208	7.	*	1	2330	283	4.
1	0450	59	5.	*	1	1105	134	17.	*	1	1720	209	7.	*	1	2335	284	4.
1	0455	60	5.	*	1	1110	135	18.	*	1	1725	210	7.	*	1	2340	285	4.
1	0500	61	5.	*	1	1115	136	20.	*	1	1730	211	7.	*	1	2345	286	4.
1	0505	62	5.	*	1	1120	137	21.	*	1	1735	212	6.	*	1	2350	287	3.
1	0510	63	5.	*	1	1125	138	23.	*	1	1740	213	6.	*	1	2355	288	3.
1	0515	64	5.	*	1	1130	139	25.	*	1	1745	214	6.	*	2	0000	289	3.
1	0520	65	5.	*	1	1135	140	60.	*	1	1750	215	6.	*	2	0005	290	3.
1	0525	66	5.	*	1	1140	141	153.	*	1	1755	216	6.	*	2	0010	291	3.
1	0530	67	5.	*	1	1145	142	349.	*	1	1800	217	6.	*	2	0015	292	3.
1	0535	68	5.	*	1	1150	143	616.	*	1	1805	218	6.	*	2	0020	293	2.
1	0540	69	5.	*	1	1155	144	990.	*	1	1810	219	6.	*	2	0025	294	2.
1	0545	70	5.	*	1	1200	145	1236.	*	1	1815	220	6.	*	2	0030	295	1.
1	0550	71	5.	*	1	1205	146	1402.	*	1	1820	221	6.	*	2	0035	296	1.
1	0555	72	5.	*	1	1210	147	1475.	*	1	1825	222	5.	*	2	0040	297	1.
1	0600	73	5.	*	1	1215	148	1410.	*	1	1830	223	5.	*	2	0045	298	1.
1	0605	74	5.	*	1	1220	149	1240.	*	1	1835	224	5.	*	2	0050	299	1.
1	0610	75	5.	*	1	1225	150	942.	*	1	1840	225	5.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
1475.	12.17	(CFS)	200.	54.	52.	52.
		(INCHES)	1.272	1.369	1.370	1.370
		(AC-FT)	99.	107.	107.	107.

CUMULATIVE AREA = 1.46 SQ MI

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          **************
          *            *
776 KK    *     N1-1N  *       Routing thru N2
          *            *
          **************

777 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          2  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL          0.  HYDROGRAPH PLOT SCALE
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IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

HYDROGRAPH ROUTING DATA

778 RS STORAGE ROUTING

NSTPS	17	NUMBER OF SUBREACHES
ITYP	FLOW	TYPE OF INITIAL CONDITION
RSVRIC	.00	INITIAL CONDITION
X	.00	WORKING R AND D COEFFICIENT

779 RC NORMAL DEPTH CHANNEL

ANL	.050	LEFT OVERBANK N-VALUE
ANCH	.047	MAIN CHANNEL N-VALUE
ANR	.050	RIGHT OVERBANK N-VALUE
RLNTH	26520.	REACH LENGTH
SEL	.0184	ENERGY SLOPE
ELMAX	.0	MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

CROSS-SECTION DATA

		--- LEFT OVERBANK ---	+	------ MAIN CHANNEL -------	+	--- RIGHT OVERBANK ---		
781 RY	ELEVATION	14.00	13.00	11.50	10.00	10.00	11.50	13.00	14.00
780 RX	DISTANCE	.00	70.00	140.00	148.00	157.00	171.00	241.00	311.00

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COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	1.35	3.10	5.24	7.78	10.71	14.04	17.77	22.71	30.14
OUTFLOW	.00	3.08	10.54	22.35	38.88	60.55	87.79	121.03	169.27	232.15
ELEVATION	10.00	10.21	10.42	10.63	10.84	11.05	11.26	11.47	11.68	11.89
STORAGE	40.10	52.57	67.56	85.07	105.10	128.00	154.64	185.06	219.25	257.23
OUTFLOW	313.45	417.08	546.51	704.94	895.34	1109.94	1364.32	1666.70	2021.07	2431.38
ELEVATION	12.11	12.32	12.53	12.74	12.95	13.16	13.37	13.58	13.79	14.00

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HYDROGRAPH AT STATION N1-1N
TRANSPOSITION AREA .0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
990.	13.50	(CFS)	204.	54.	52.	52.
		(INCHES)	1.301	1.383	1.383	1.383
		(AC-FT)	101.	108.	108.	108.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
7.	13.50	2.	0.	0.	0.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
13.04	13.50	11.25	10.47	10.46	10.46

CUMULATIVE AREA = 1.46 SQ MI

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

HYDROGRAPH AT STATION N1-1N
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
960.	13.50	(CFS)	198.	53.	51.	51.
		(INCHES)	1.264	1.345	1.345	1.345
		(AC-FT)	98.	105.	105.	105.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
7.	13.50	2.	0.	0.	0.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
13.01	13.50	11.24	10.47	10.45	10.45

CUMULATIVE AREA = 1.46 SQ MI

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HYDROGRAPH AT STATION N1-1N
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
912.	13.50	(CFS)	189.	50.	48.	48.
		(INCHES)	1.204	1.282	1.282	1.282
		(AC-FT)	94.	100.	100.	100.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
6.	13.50	1.	0.	0.	0.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
12.96	13.50	11.22	10.46	10.44	10.44

CUMULATIVE AREA = 1.46 SQ MI

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HYDROGRAPH AT STATION N1-1N
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
802.	13.50	(CFS)	168.	45.	43.	43.
		(INCHES)	1.069	1.140	1.140	1.140
		(AC-FT)	83.	89.	89.	89.

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

6.	13.50	1.	0.	0.	0.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
12.84	13.50	11.17	10.44	10.42	10.42

CUMULATIVE AREA = 1.46 SQ MI

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HYDROGRAPH AT STATION N1-1N
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
751.	13.50	(CFS)	158.	42.	41.	41.
		(INCHES)	1.007	1.076	1.076	1.076
		(AC-FT)	78.	84.	84.	84.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
5.	13.50	1.	0.	0.	0.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
12.79	13.50	11.14	10.43	10.42	10.42

CUMULATIVE AREA = 1.46 SQ MI

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HYDROGRAPH AT STATION N1-1N
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
636.	13.58	(CFS)	136.	37.	35.	35.
		(INCHES)	.868	.931	.931	.931
		(AC-FT)	68.	72.	72.	72.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
5.	13.58	1.	0.	0.	0.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
12.65	13.58	11.09	10.41	10.39	10.39

CUMULATIVE AREA = 1.46 SQ MI

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INTERPOLATED HYDROGRAPH AT N1-1N

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DA MON HRMN	ORD	FLOW	*	DA MON HRMN	ORD	FLOW	*	DA MON HRMN	ORD	FLOW	*	DA MON HRMN	ORD	FLOW

1	0000	1	0.	*	1	0615	76	3.	*	1	1230	151	15.	*	1	1845	226	9.
1	0005	2	0.	*	1	0620	77	3.	*	1	1235	152	23.	*	1	1850	227	8.
1	0010	3	0.	*	1	0625	78	4.	*	1	1240	153	47.	*	1	1855	228	8.
1	0015	4	0.	*	1	0630	79	4.	*	1	1245	154	98.	*	1	1900	229	8.
1	0020	5	0.	*	1	0635	80	4.	*	1	1250	155	177.	*	1	1905	230	8.
1	0025	6	0.	*	1	0640	81	4.	*	1	1255	156	262.	*	1	1910	231	8.
1	0030	7	0.	*	1	0645	82	4.	*	1	1300	157	373.	*	1	1915	232	8.
1	0035	8	0.	*	1	0650	83	4.	*	1	1305	158	511.	*	1	1920	233	8.
1	0040	9	0.	*	1	0655	84	4.	*	1	1310	159	661.	*	1	1925	234	8.
1	0045	10	0.	*	1	0700	85	4.	*	1	1315	160	798.	*	1	1930	235	7.
1	0050	11	0.	*	1	0705	86	4.	*	1	1320	161	897.	*	1	1935	236	7.
1	0055	12	0.	*	1	0710	87	4.	*	1	1325	162	952.	*	1	1940	237	7.
1	0100	13	0.	*	1	0715	88	4.	*	1	1330	163	966.	*	1	1945	238	7.
1	0105	14	0.	*	1	0720	89	4.	*	1	1335	164	943.	*	1	1950	239	7.
1	0110	15	0.	*	1	0725	90	4.	*	1	1340	165	892.	*	1	1955	240	7.
1	0115	16	0.	*	1	0730	91	5.	*	1	1345	166	821.	*	1	2000	241	7.
1	0120	17	0.	*	1	0735	92	5.	*	1	1350	167	743.	*	1	2005	242	7.
1	0125	18	0.	*	1	0740	93	5.	*	1	1355	168	666.	*	1	2010	243	7.
1	0130	19	0.	*	1	0745	94	5.	*	1	1400	169	593.	*	1	2015	244	7.
1	0135	20	0.	*	1	0750	95	5.	*	1	1405	170	524.	*	1	2020	245	6.
1	0140	21	0.	*	1	0755	96	5.	*	1	1410	171	461.	*	1	2025	246	6.
1	0145	22	0.	*	1	0800	97	5.	*	1	1415	172	402.	*	1	2030	247	6.
1	0150	23	0.	*	1	0805	98	5.	*	1	1420	173	347.	*	1	2035	248	6.
1	0155	24	0.	*	1	0810	99	5.	*	1	1425	174	295.	*	1	2040	249	6.
1	0200	25	0.	*	1	0815	100	5.	*	1	1430	175	246.	*	1	2045	250	6.
1	0205	26	0.	*	1	0820	101	5.	*	1	1435	176	200.	*	1	2050	251	6.
1	0210	27	0.	*	1	0825	102	5.	*	1	1440	177	159.	*	1	2055	252	6.
1	0215	28	0.	*	1	0830	103	5.	*	1	1445	178	125.	*	1	2100	253	6.
1	0220	29	0.	*	1	0835	104	5.	*	1	1450	179	105.	*	1	2105	254	6.
1	0225	30	0.	*	1	0840	105	5.	*	1	1455	180	90.	*	1	2110	255	6.
1	0230	31	0.	*	1	0845	106	5.	*	1	1500	181	79.	*	1	2115	256	6.
1	0235	32	0.	*	1	0850	107	5.	*	1	1505	182	69.	*	1	2120	257	6.
1	0240	33	0.	*	1	0855	108	5.	*	1	1510	183	62.	*	1	2125	258	5.
1	0245	34	0.	*	1	0900	109	5.	*	1	1515	184	56.	*	1	2130	259	5.
1	0250	35	0.	*	1	0905	110	5.	*	1	1520	185	50.	*	1	2135	260	5.
1	0255	36	0.	*	1	0910	111	5.	*	1	1525	186	46.	*	1	2140	261	5.
1	0300	37	0.	*	1	0915	112	5.	*	1	1530	187	41.	*	1	2145	262	5.
1	0305	38	0.	*	1	0920	113	5.	*	1	1535	188	38.	*	1	2150	263	5.
1	0310	39	0.	*	1	0925	114	6.	*	1	1540	189	35.	*	1	2155	264	5.
1	0315	40	0.	*	1	0930	115	6.	*	1	1545	190	32.	*	1	2200	265	5.
1	0320	41	0.	*	1	0935	116	6.	*	1	1550	191	29.	*	1	2205	266	5.
1	0325	42	0.	*	1	0940	117	6.	*	1	1555	192	27.	*	1	2210	267	5.
1	0330	43	0.	*	1	0945	118	6.	*	1	1600	193	25.	*	1	2215	268	5.
1	0335	44	0.	*	1	0950	119	6.	*	1	1605	194	23.	*	1	2220	269	5.
1	0340	45	0.	*	1	0955	120	6.	*	1	1610	195	22.	*	1	2225	270	5.
1	0345	46	0.	*	1	1000	121	6.	*	1	1615	196	21.	*	1	2230	271	5.
1	0350	47	0.	*	1	1005	122	6.	*	1	1620	197	19.	*	1	2235	272	5.
1	0355	48	0.	*	1	1010	123	6.	*	1	1625	198	18.	*	1	2240	273	5.
1	0400	49	0.	*	1	1015	124	6.	*	1	1630	199	17.	*	1	2245	274	5.
1	0405	50	0.	*	1	1020	125	6.	*	1	1635	200	16.	*	1	2250	275	5.
1	0410	51	0.	*	1	1025	126	6.	*	1	1640	201	15.	*	1	2255	276	5.
1	0415	52	0.	*	1	1030	127	6.	*	1	1645	202	15.	*	1	2300	277	5.
1	0420	53	0.	*	1	1035	128	7.	*	1	1650	203	14.	*	1	2305	278	5.
1	0425	54	0.	*	1	1040	129	7.	*	1	1655	204	13.	*	1	2310	279	4.
1	0430	55	1.	*	1	1045	130	7.	*	1	1700	205	13.	*	1	2315	280	4.
1	0435	56	1.	*	1	1050	131	7.	*	1	1705	206	12.	*	1	2320	281	4.
1	0440	57	1.	*	1	1055	132	7.	*	1	1710	207	12.	*	1	2325	282	4.
1	0445	58	1.	*	1	1100	133	7.	*	1	1715	208	12.	*	1	2330	283	4.
1	0450	59	1.	*	1	1105	134	7.	*	1	1720	209	11.	*	1	2335	284	4.

1	0455	60	1.	*	1	1110	135	7.	*	1	1725	210	11.	*	1	2340	285	4.
1	0500	61	1.	*	1	1115	136	7.	*	1	1730	211	11.	*	1	2345	286	4.
1	0505	62	1.	*	1	1120	137	8.	*	1	1735	212	11.	*	1	2350	287	4.
1	0510	63	1.	*	1	1125	138	8.	*	1	1740	213	11.	*	1	2355	288	4.
1	0515	64	1.	*	1	1130	139	8.	*	1	1745	214	10.	*	2	0000	289	4.
1	0520	65	1.	*	1	1135	140	8.	*	1	1750	215	10.	*	2	0005	290	4.
1	0525	66	1.	*	1	1140	141	8.	*	1	1755	216	10.	*	2	0010	291	4.
1	0530	67	2.	*	1	1145	142	8.	*	1	1800	217	10.	*	2	0015	292	4.
1	0535	68	2.	*	1	1150	143	9.	*	1	1805	218	10.	*	2	0020	293	4.
1	0540	69	2.	*	1	1155	144	9.	*	1	1810	219	10.	*	2	0025	294	4.
1	0545	70	2.	*	1	1200	145	9.	*	1	1815	220	10.	*	2	0030	295	4.
1	0550	71	2.	*	1	1205	146	9.	*	1	1820	221	9.	*	2	0035	296	4.
1	0555	72	2.	*	1	1210	147	9.	*	1	1825	222	9.	*	2	0040	297	4.
1	0600	73	2.	*	1	1215	148	10.	*	1	1830	223	9.	*	2	0045	298	4.
1	0605	74	3.	*	1	1220	149	11.	*	1	1835	224	9.	*	2	0050	299	4.
1	0610	75	3.	*	1	1225	150	12.	*	1	1840	225	9.	*	2	0055	300	4.
				*					*					*				

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
966.	13.50	(CFS)	200.	53.	51.	51.
		(INCHES)	1.271	1.352	1.352	1.352
		(AC-FT)	99.	105.	105.	105.

CUMULATIVE AREA = 1.46 SQ MI

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          *            *
782 KK    *        N2  *
          *            *
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BASIN N2
THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
L= 5.0 Lca= 2.4 S= 97.0 Kn= .065 LAG= 101.0
PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN

787 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

SUBBASIN RUNOFF DATA

788 BA SUBBASIN CHARACTERISTICS

TAREA	4.13	SUBBASIN AREA

789 LG GREEN AND AMPT LOSS RATE

STRTL	.18	STARTING LOSS
DTH	.35	MOISTURE DEFICIT
PSIF	4.14	WETTING FRONT SUCTION
XKSAT	.39	HYDRAULIC CONDUCTIVITY
RTIMP	1.00	PERCENT IMPERVIOUS AREA

788 UI INPUT UNITGRAPH, 60 ORDINATES, VOLUME = 1.00

138.0	138.0	138.0	138.0	249.0	453.0	524.0	605.0	663.0	722.0
772.0	825.0	883.0	961.0	1041.0	1118.0	1281.0	1548.0	1684.0	1790.0
1571.0	1406.0	1286.0	1194.0	1115.0	1046.0	955.0	876.0	817.0	748.0
687.0	643.0	553.0	456.0	396.0	254.0	244.0	238.0	226.0	226.0
184.0	138.0	138.0	138.0	138.0	58.0	42.0	42.0	42.0	42.0
42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0

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HYDROGRAPH AT STATION N2
TRANSPOSITION AREA .0 SQ MI

TOTAL RAINFALL = 4.20, TOTAL LOSS = 3.00, TOTAL EXCESS = 1.20

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1825.	13.42	(CFS)	527.	133.	128.	128.
		(INCHES)	1.187	1.199	1.199	1.199
		(AC-FT)	261.	264.	264.	264.

CUMULATIVE AREA = 4.13 SQ MI

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

HYDROGRAPH AT STATION N2
TRANSPOSITION AREA 5.0 SQ MI

TOTAL RAINFALL = 4.12, TOTAL LOSS = 2.96, TOTAL EXCESS = 1.16

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1772.	13.42	(CFS)	512.	129.	125.	125.
		(INCHES)	1.152	1.164	1.164	1.164
		(AC-FT)	254.	256.	256.	256.

CUMULATIVE AREA = 4.13 SQ MI

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

HYDROGRAPH AT STATION N2
TRANSPOSITION AREA 10.0 SQ MI

TOTAL RAINFALL = 3.99, TOTAL LOSS = 2.88, TOTAL EXCESS = 1.11

K FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1685.	13.42	(CFS)	487.	123.	118.	118.
		(INCHES)	1.095	1.107	1.107	1.107
		(AC-FT)	241.	244.	244.	244.

CUMULATIVE AREA = 4.13 SQ MI

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

HYDROGRAPH AT STATION N2
TRANSPOSITION AREA 50.0 SQ MI

TOTAL RAINFALL = 3.70, TOTAL LOSS = 2.72, TOTAL EXCESS = .98

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1489.	13.42	(CFS)	430.	109.	105.	105.
		(INCHES)	.968	.979	.979	.979
		(AC-FT)	213.	216.	216.	216.

CUMULATIVE AREA = 4.13 SQ MI

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HYDROGRAPH AT STATION N2
TRANSPOSITION AREA 100.0 SQ MI

TOTAL RAINFALL = 3.57, TOTAL LOSS = 2.65, TOTAL EXCESS = .92

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1401.	13.42	(CFS)	404.	102.	98.	98.
		(INCHES)	.910	.920	.920	.920
		(AC-FT)	200.	203.	203.	203.

CUMULATIVE AREA = 4.13 SQ MI

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HYDROGRAPH AT STATION N2
TRANSPOSITION AREA 500.0 SQ MI

TOTAL RAINFALL = 3.28, TOTAL LOSS = 2.49, TOTAL EXCESS = .79

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1200.	13.42	(CFS)	346.	88.	84.	84.
		(INCHES)	.779	.789	.789	.789
		(AC-FT)	172.	174.	174.	174.

CUMULATIVE AREA = 4.13 SQ MI

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INTERPOLATED HYDROGRAPH AT N2

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DA MON HRMN	ORD	FLOW	DA MON HRMN	ORD	FLOW	DA MON HRMN	ORD	FLOW	DA MON HRMN	ORD	FLOW

1	0000	1	0.	*	1	0615	76	2.	*	1	1230	151	785.	*	1	1845	226	2.
1	0005	2	0.	*	1	0620	77	2.	*	1	1235	152	853.	*	1	1850	227	2.
1	0010	3	0.	*	1	0625	78	2.	*	1	1240	153	921.	*	1	1855	228	2.
1	0015	4	0.	*	1	0630	79	2.	*	1	1245	154	993.	*	1	1900	229	2.
1	0020	5	0.	*	1	0635	80	2.	*	1	1250	155	1068.	*	1	1905	230	2.
1	0025	6	0.	*	1	0640	81	2.	*	1	1255	156	1164.	*	1	1910	231	2.
1	0030	7	0.	*	1	0645	82	2.	*	1	1300	157	1300.	*	1	1915	232	2.
1	0035	8	0.	*	1	0650	83	2.	*	1	1305	158	1451.	*	1	1920	233	2.
1	0040	9	0.	*	1	0655	84	2.	*	1	1310	159	1608.	*	1	1925	234	2.
1	0045	10	0.	*	1	0700	85	2.	*	1	1315	160	1711.	*	1	1930	235	2.
1	0050	11	0.	*	1	0705	86	2.	*	1	1320	161	1769.	*	1	1935	236	2.
1	0055	12	0.	*	1	0710	87	2.	*	1	1325	162	1774.	*	1	1940	237	2.
1	0100	13	0.	*	1	0715	88	2.	*	1	1330	163	1709.	*	1	1945	238	2.
1	0105	14	0.	*	1	0720	89	2.	*	1	1335	164	1601.	*	1	1950	239	2.
1	0110	15	0.	*	1	0725	90	2.	*	1	1340	165	1459.	*	1	1955	240	2.
1	0115	16	0.	*	1	0730	91	2.	*	1	1345	166	1342.	*	1	2000	241	2.
1	0120	17	0.	*	1	0735	92	2.	*	1	1350	167	1241.	*	1	2005	242	2.
1	0125	18	0.	*	1	0740	93	2.	*	1	1355	168	1152.	*	1	2010	243	2.
1	0130	19	0.	*	1	0745	94	2.	*	1	1400	169	1067.	*	1	2015	244	2.
1	0135	20	1.	*	1	0750	95	2.	*	1	1405	170	985.	*	1	2020	245	2.
1	0140	21	1.	*	1	0755	96	2.	*	1	1410	171	908.	*	1	2025	246	2.
1	0145	22	1.	*	1	0800	97	2.	*	1	1415	172	832.	*	1	2030	247	2.
1	0150	23	1.	*	1	0805	98	2.	*	1	1420	173	752.	*	1	2035	248	2.
1	0155	24	1.	*	1	0810	99	2.	*	1	1425	174	672.	*	1	2040	249	2.
1	0200	25	1.	*	1	0815	100	2.	*	1	1430	175	579.	*	1	2045	250	2.
1	0205	26	1.	*	1	0820	101	2.	*	1	1435	176	495.	*	1	2050	251	2.
1	0210	27	1.	*	1	0825	102	2.	*	1	1440	177	417.	*	1	2055	252	2.
1	0215	28	1.	*	1	0830	103	2.	*	1	1445	178	354.	*	1	2100	253	2.
1	0220	29	1.	*	1	0835	104	2.	*	1	1450	179	309.	*	1	2105	254	2.
1	0225	30	1.	*	1	0840	105	2.	*	1	1455	180	268.	*	1	2110	255	2.
1	0230	31	1.	*	1	0845	106	2.	*	1	1500	181	246.	*	1	2115	256	2.
1	0235	32	1.	*	1	0850	107	2.	*	1	1505	182	226.	*	1	2120	257	2.
1	0240	33	1.	*	1	0855	108	2.	*	1	1510	183	206.	*	1	2125	258	2.
1	0245	34	1.	*	1	0900	109	2.	*	1	1515	184	189.	*	1	2130	259	2.
1	0250	35	1.	*	1	0905	110	2.	*	1	1520	185	157.	*	1	2135	260	2.
1	0255	36	1.	*	1	0910	111	2.	*	1	1525	186	130.	*	1	2140	261	2.
1	0300	37	1.	*	1	0915	112	2.	*	1	1530	187	112.	*	1	2145	262	2.
1	0305	38	1.	*	1	0920	113	2.	*	1	1535	188	93.	*	1	2150	263	2.
1	0310	39	1.	*	1	0925	114	3.	*	1	1540	189	75.	*	1	2155	264	2.
1	0315	40	1.	*	1	0930	115	3.	*	1	1545	190	56.	*	1	2200	265	2.
1	0320	41	1.	*	1	0935	116	3.	*	1	1550	191	53.	*	1	2205	266	2.
1	0325	42	1.	*	1	0940	117	3.	*	1	1555	192	52.	*	1	2210	267	1.
1	0330	43	1.	*	1	0945	118	3.	*	1	1600	193	52.	*	1	2215	268	1.
1	0335	44	1.	*	1	0950	119	3.	*	1	1605	194	52.	*	1	2220	269	1.
1	0340	45	1.	*	1	0955	120	3.	*	1	1610	195	52.	*	1	2225	270	1.
1	0345	46	1.	*	1	1000	121	3.	*	1	1615	196	52.	*	1	2230	271	1.
1	0350	47	1.	*	1	1005	122	3.	*	1	1620	197	52.	*	1	2235	272	1.
1	0355	48	1.	*	1	1010	123	3.	*	1	1625	198	52.	*	1	2240	273	1.
1	0400	49	1.	*	1	1015	124	3.	*	1	1630	199	52.	*	1	2245	274	1.
1	0405	50	1.	*	1	1020	125	3.	*	1	1635	200	44.	*	1	2250	275	1.
1	0410	51	1.	*	1	1025	126	3.	*	1	1640	201	36.	*	1	2255	276	1.
1	0415	52	1.	*	1	1030	127	3.	*	1	1645	202	28.	*	1	2300	277	1.
1	0420	53	1.	*	1	1035	128	3.	*	1	1650	203	20.	*	1	2305	278	1.
1	0425	54	1.	*	1	1040	129	3.	*	1	1655	204	12.	*	1	2310	279	1.
1	0430	55	1.	*	1	1045	130	3.	*	1	1700	205	3.	*	1	2315	280	1.
1	0435	56	1.	*	1	1050	131	4.	*	1	1705	206	3.	*	1	2320	281	1.
1	0440	57	1.	*	1	1055	132	4.	*	1	1710	207	3.	*	1	2325	282	1.
1	0445	58	1.	*	1	1100	133	4.	*	1	1715	208	3.	*	1	2330	283	1.
1	0450	59	1.	*	1	1105	134	4.	*	1	1720	209	3.	*	1	2335	284	1.
1	0455	60	1.	*	1	1110	135	4.	*	1	1725	210	3.	*	1	2340	285	1.

1	0500	61	1.	*	1	1115	136	4.	*	1	1730	211	3.	*	1	2345	286	1.
1	0505	62	1.	*	1	1120	137	4.	*	1	1735	212	3.	*	1	2350	287	1.
1	0510	63	1.	*	1	1125	138	4.	*	1	1740	213	3.	*	1	2355	288	1.
1	0515	64	2.	*	1	1130	139	5.	*	1	1745	214	3.	*	2	0000	289	1.
1	0520	65	2.	*	1	1135	140	30.	*	1	1750	215	3.	*	2	0005	290	1.
1	0525	66	2.	*	1	1140	141	56.	*	1	1755	216	3.	*	2	0010	291	1.
1	0530	67	2.	*	1	1145	142	82.	*	1	1800	217	3.	*	2	0015	292	1.
1	0535	68	2.	*	1	1150	143	109.	*	1	1805	218	3.	*	2	0020	293	1.
1	0540	69	2.	*	1	1155	144	156.	*	1	1810	219	3.	*	2	0025	294	1.
1	0545	70	2.	*	1	1200	145	241.	*	1	1815	220	2.	*	2	0030	295	1.
1	0550	71	2.	*	1	1205	146	313.	*	1	1820	221	2.	*	2	0035	296	1.
1	0555	72	2.	*	1	1210	147	402.	*	1	1825	222	2.	*	2	0040	297	1.
1	0600	73	2.	*	1	1215	148	501.	*	1	1830	223	2.	*	2	0045	298	1.
1	0605	74	2.	*	1	1220	149	613.	*	1	1835	224	2.	*	2	0050	299	1.
1	0610	75	2.	*	1	1225	150	714.	*	1	1840	225	2.	*	2	0055	300	1.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
1774.	13.42	(CFS)	512.	129.	125.	125.
		(INCHES)	1.153	1.165	1.165	1.165
		(AC-FT)	254.	257.	257.	257.

CUMULATIVE AREA = 4.13 SQ MI

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798 KK

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* 1N *
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Combining N1 & N2

800 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

801 HC HYDROGRAPH COMBINATION

ICOMP	2	NUMBER OF HYDROGRAPHS TO COMBINE

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

HYDROGRAPH AT STATION 1N
TRANSPOSITION AREA .0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2802.	13.42	(CFS)	731.	187.	181.	181.
		(INCHES)	1.216	1.247	1.247	1.247
		(AC-FT)	363.	372.	372.	372.

CUMULATIVE AREA = 5.59 SQ MI

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HYDROGRAPH AT STATION 1N
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2719.	13.42	(CFS)	710.	182.	175.	175.
		(INCHES)	1.181	1.211	1.211	1.211
		(AC-FT)	352.	361.	361.	361.

CUMULATIVE AREA = 5.59 SQ MI

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HYDROGRAPH AT STATION 1N
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2583.	13.42	(CFS)	675.	173.	167.	167.
		(INCHES)	1.123	1.153	1.153	1.153
		(AC-FT)	335.	344.	344.	344.

CUMULATIVE AREA = 5.59 SQ MI

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HYDROGRAPH AT STATION 1N
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2272.	13.42	(CFS)	597.	153.	148.	148.
		(INCHES)	.994	1.021	1.021	1.021
		(AC-FT)	296.	304.	304.	304.

CUMULATIVE AREA = 5.59 SQ MI

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

HYDROGRAPH AT STATION 1N
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2129.	13.42	(CFS)	562.	144.	139.	139.
		(INCHES)	.935	.961	.961	.961

(AC-FT)	279.	287.	287.	287.

CUMULATIVE AREA = 5.59 SQ MI

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HYDROGRAPH AT STATION 1N
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1805.	13.42	(CFS)	482.	124.	120.	120.
		(INCHES)	.802	.826	.826	.826
		(AC-FT)	239.	246.	246.	246.

CUMULATIVE AREA = 5.59 SQ MI

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INTERPOLATED HYDROGRAPH AT 1N

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	5.	1		1230	151	792.	1		1845	226	11.
1		0005	2	0.	1		0620	77	5.	1		1235	152	868.	1		1850	227	11.
1		0010	3	0.	1		0625	78	5.	1		1240	153	959.	1		1855	228	10.
1		0015	4	0.	1		0630	79	5.	1		1245	154	1080.	1		1900	229	10.
1		0020	5	0.	1		0635	80	6.	1		1250	155	1232.	1		1905	230	10.
1		0025	6	0.	1		0640	81	6.	1		1255	156	1412.	1		1910	231	10.
1		0030	7	0.	1		0645	82	6.	1		1300	157	1654.	1		1915	232	10.
1		0035	8	0.	1		0650	83	6.	1		1305	158	1939.	1		1920	233	10.
1		0040	9	0.	1		0655	84	6.	1		1310	159	2242.	1		1925	234	9.
1		0045	10	0.	1		0700	85	6.	1		1315	160	2479.	1		1930	235	9.
1		0050	11	0.	1		0705	86	6.	1		1320	161	2637.	1		1935	236	9.
1		0055	12	0.	1		0710	87	6.	1		1325	162	2697.	1		1940	237	9.
1		0100	13	0.	1		0715	88	6.	1		1330	163	2646.	1		1945	238	9.
1		0105	14	0.	1		0720	89	6.	1		1335	164	2518.	1		1950	239	9.
1		0110	15	0.	1		0725	90	6.	1		1340	165	2326.	1		1955	240	9.
1		0115	16	0.	1		0730	91	6.	1		1345	166	2141.	1		2000	241	9.
1		0120	17	0.	1		0735	92	6.	1		1350	167	1965.	1		2005	242	9.
1		0125	18	0.	1		0740	93	6.	1		1355	168	1801.	1		2010	243	8.
1		0130	19	0.	1		0745	94	7.	1		1400	169	1645.	1		2015	244	8.
1		0135	20	1.	1		0750	95	7.	1		1405	170	1496.	1		2020	245	8.
1		0140	21	1.	1		0755	96	7.	1		1410	171	1357.	1		2025	246	8.
1		0145	22	1.	1		0800	97	7.	1		1415	172	1223.	1		2030	247	8.
1		0150	23	1.	1		0805	98	7.	1		1420	173	1089.	1		2035	248	8.
1		0155	24	1.	1		0810	99	7.	1		1425	174	959.	1		2040	249	8.
1		0200	25	1.	1		0815	100	7.	1		1430	175	817.	1		2045	250	8.
1		0205	26	1.	1		0820	101	7.	1		1435	176	687.	1		2050	251	8.
1		0210	27	1.	1		0825	102	7.	1		1440	177	569.	1		2055	252	8.
1		0215	28	1.	1		0830	103	7.	1		1445	178	474.	1		2100	253	7.
1		0220	29	1.	1		0835	104	7.	1		1450	179	410.	1		2105	254	7.
1		0225	30	1.	1		0840	105	7.	1		1455	180	354.	1		2110	255	7.
1		0230	31	1.	1		0845	106	7.	1		1500	181	322.	1		2115	256	7.
1		0235	32	1.	1		0850	107	7.	1		1505	182	293.	1		2120	257	7.
1		0240	33	1.	1		0855	108	7.	1		1510	183	266.	1		2125	258	7.

1	0245	34	1.	*	1	0900	109	8.	*	1	1515	184	243.	*	1	2130	259	7.
1	0250	35	1.	*	1	0905	110	8.	*	1	1520	185	206.	*	1	2135	260	7.
1	0255	36	1.	*	1	0910	111	8.	*	1	1525	186	174.	*	1	2140	261	7.
1	0300	37	1.	*	1	0915	112	8.	*	1	1530	187	152.	*	1	2145	262	7.
1	0305	38	1.	*	1	0920	113	8.	*	1	1535	188	130.	*	1	2150	263	7.
1	0310	39	1.	*	1	0925	114	8.	*	1	1540	189	109.	*	1	2155	264	7.
1	0315	40	1.	*	1	0930	115	8.	*	1	1545	190	87.	*	1	2200	265	7.
1	0320	41	1.	*	1	0935	116	8.	*	1	1550	191	81.	*	1	2205	266	7.
1	0325	42	1.	*	1	0940	117	8.	*	1	1555	192	79.	*	1	2210	267	6.
1	0330	43	1.	*	1	0945	118	8.	*	1	1600	193	77.	*	1	2215	268	6.
1	0335	44	1.	*	1	0950	119	9.	*	1	1605	194	75.	*	1	2220	269	6.
1	0340	45	1.	*	1	0955	120	9.	*	1	1610	195	73.	*	1	2225	270	6.
1	0345	46	1.	*	1	1000	121	9.	*	1	1615	196	72.	*	1	2230	271	6.
1	0350	47	1.	*	1	1005	122	9.	*	1	1620	197	71.	*	1	2235	272	6.
1	0355	48	1.	*	1	1010	123	9.	*	1	1625	198	69.	*	1	2240	273	6.
1	0400	49	2.	*	1	1015	124	9.	*	1	1630	199	68.	*	1	2245	274	6.
1	0405	50	2.	*	1	1020	125	9.	*	1	1635	200	60.	*	1	2250	275	6.
1	0410	51	2.	*	1	1025	126	9.	*	1	1640	201	51.	*	1	2255	276	6.
1	0415	52	2.	*	1	1030	127	10.	*	1	1645	202	42.	*	1	2300	277	6.
1	0420	53	2.	*	1	1035	128	10.	*	1	1650	203	33.	*	1	2305	278	6.
1	0425	54	2.	*	1	1040	129	10.	*	1	1655	204	25.	*	1	2310	279	6.
1	0430	55	2.	*	1	1045	130	10.	*	1	1700	205	16.	*	1	2315	280	6.
1	0435	56	2.	*	1	1050	131	10.	*	1	1705	206	15.	*	1	2320	281	6.
1	0440	57	2.	*	1	1055	132	11.	*	1	1710	207	15.	*	1	2325	282	6.
1	0445	58	2.	*	1	1100	133	11.	*	1	1715	208	15.	*	1	2330	283	6.
1	0450	59	2.	*	1	1105	134	11.	*	1	1720	209	14.	*	1	2335	284	6.
1	0455	60	2.	*	1	1110	135	11.	*	1	1725	210	14.	*	1	2340	285	6.
1	0500	61	2.	*	1	1115	136	11.	*	1	1730	211	14.	*	1	2345	286	6.
1	0505	62	3.	*	1	1120	137	12.	*	1	1735	212	13.	*	1	2350	287	6.
1	0510	63	3.	*	1	1125	138	12.	*	1	1740	213	13.	*	1	2355	288	5.
1	0515	64	3.	*	1	1130	139	12.	*	1	1745	214	13.	*	2	0000	289	5.
1	0520	65	3.	*	1	1135	140	38.	*	1	1750	215	13.	*	2	0005	290	5.
1	0525	66	3.	*	1	1140	141	64.	*	1	1755	216	13.	*	2	0010	291	5.
1	0530	67	3.	*	1	1145	142	90.	*	1	1800	217	12.	*	2	0015	292	5.
1	0535	68	3.	*	1	1150	143	116.	*	1	1805	218	12.	*	2	0020	293	5.
1	0540	69	3.	*	1	1155	144	163.	*	1	1810	219	12.	*	2	0025	294	5.
1	0545	70	4.	*	1	1200	145	248.	*	1	1815	220	12.	*	2	0030	295	5.
1	0550	71	4.	*	1	1205	146	320.	*	1	1820	221	12.	*	2	0035	296	5.
1	0555	72	4.	*	1	1210	147	407.	*	1	1825	222	12.	*	2	0040	297	5.
1	0600	73	4.	*	1	1215	148	507.	*	1	1830	223	11.	*	2	0045	298	5.
1	0605	74	4.	*	1	1220	149	618.	*	1	1835	224	11.	*	2	0050	299	5.
1	0610	75	4.	*	1	1225	150	719.	*	1	1840	225	11.	*	2	0055	300	5.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
2697.	13.42	(CFS)	704.	181.	174.	174.
		(INCHES)	1.172	1.202	1.202	1.202
		(AC-FT)	349.	358.	358.	358.

CUMULATIVE AREA = 5.59 SQ MI

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         *           *
802 KK   *       P1  *
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BASIN P1
THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
L= .8 Lca= .5 S= 844.0 Kn= .050 LAG= 14.0
PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN

807 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

SUBBASIN RUNOFF DATA

808 BA SUBBASIN CHARACTERISTICS

TAREA	.37	SUBBASIN AREA

809 LG GREEN AND AMPT LOSS RATE

STRTL	.39	STARTING LOSS
DTH	.35	MOISTURE DEFICIT
PSIF	4.19	WETTING FRONT SUCTION
XKSAT	.39	HYDRAULIC CONDUCTIVITY
RTIMP	8.00	PERCENT IMPERVIOUS AREA

808 UI INPUT UNITGRAPH, 12 ORDINATES, VOLUME = .99

159.0	576.0	810.0	467.0	311.0	201.0	121.0	80.0	50.0	32.0
17.0	17.0								

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HYDROGRAPH AT STATION P1
TRANSPOSITION AREA .0 SQ MI

TOTAL RAINFALL = 4.20, TOTAL LOSS = 2.83, TOTAL EXCESS = 1.37

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
491.	12.00	(CFS)	50.	13.	13.	13.
		(INCHES)	1.260	1.357	1.357	1.357
		(AC-FT)	25.	27.	27.	27.

CUMULATIVE AREA = .37 SQ MI

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HYDROGRAPH AT STATION P1
TRANSPOSITION AREA 5.0 SQ MI

TOTAL RAINFALL = 4.12, TOTAL LOSS = 2.79, TOTAL EXCESS = 1.33

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
477.	12.00	(CFS)	49.	13.	13.	13.
		(INCHES)	1.222	1.318	1.318	1.318
		(AC-FT)	24.	26.	26.	26.

CUMULATIVE AREA = .37 SQ MI

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HYDROGRAPH AT STATION P1
TRANSPOSITION AREA 10.0 SQ MI

TOTAL RAINFALL = 3.99, TOTAL LOSS = 2.73, TOTAL EXCESS = 1.26

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
452.	12.00	(CFS)	46.	12.	12.	12.
		(INCHES)	1.161	1.254	1.254	1.254
		(AC-FT)	23.	25.	25.	25.

CUMULATIVE AREA = .37 SQ MI

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HYDROGRAPH AT STATION P1
TRANSPOSITION AREA 50.0 SQ MI

TOTAL RAINFALL = 3.70, TOTAL LOSS = 2.58, TOTAL EXCESS = 1.12

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
398.	12.08	(CFS)	41.	11.	11.	11.
		(INCHES)	1.023	1.109	1.109	1.109
		(AC-FT)	20.	22.	22.	22.

CUMULATIVE AREA = .37 SQ MI

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HYDROGRAPH AT STATION P1
TRANSPOSITION AREA 100.0 SQ MI

TOTAL RAINFALL = 3.57, TOTAL LOSS = 2.52, TOTAL EXCESS = 1.05

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
375.	12.08	(CFS)	38.	10.	10.	10.
		(INCHES)	.961	1.043	1.044	1.044
		(AC-FT)	19.	21.	21.	21.

CUMULATIVE AREA = .37 SQ MI

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HYDROGRAPH AT STATION P1
TRANSPOSITION AREA 500.0 SQ MI

TOTAL RAINFALL = 3.28, TOTAL LOSS = 2.38, TOTAL EXCESS = .90

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
321.	12.08	(CFS)	33.	9.	9.	9.
		(INCHES)	.818	.894	.894	.894
		(AC-FT)	16.	18.	18.	18.

CUMULATIVE AREA = .37 SQ MI

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INTERPOLATED HYDROGRAPH AT P1

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	1.	1		1230	151	71.	1		1845	226	1.
1		0005	2	0.	1		0620	77	1.	1		1235	152	48.	1		1850	227	1.
1		0010	3	0.	1		0625	78	1.	1		1240	153	32.	1		1855	228	1.
1		0015	4	0.	1		0630	79	1.	1		1245	154	21.	1		1900	229	1.
1		0020	5	1.	1		0635	80	1.	1		1250	155	14.	1		1905	230	1.
1		0025	6	1.	1		0640	81	1.	1		1255	156	10.	1		1910	231	1.
1		0030	7	1.	1		0645	82	1.	1		1300	157	6.	1		1915	232	1.
1		0035	8	1.	1		0650	83	1.	1		1305	158	6.	1		1920	233	1.
1		0040	9	1.	1		0655	84	1.	1		1310	159	6.	1		1925	234	1.
1		0045	10	1.	1		0700	85	1.	1		1315	160	5.	1		1930	235	1.
1		0050	11	1.	1		0705	86	1.	1		1320	161	5.	1		1935	236	1.
1		0055	12	1.	1		0710	87	1.	1		1325	162	5.	1		1940	237	1.
1		0100	13	1.	1		0715	88	2.	1		1330	163	4.	1		1945	238	1.
1		0105	14	1.	1		0720	89	2.	1		1335	164	4.	1		1950	239	1.
1		0110	15	1.	1		0725	90	2.	1		1340	165	4.	1		1955	240	1.
1		0115	16	1.	1		0730	91	2.	1		1345	166	4.	1		2000	241	1.
1		0120	17	1.	1		0735	92	2.	1		1350	167	4.	1		2005	242	1.
1		0125	18	1.	1		0740	93	2.	1		1355	168	3.	1		2010	243	1.
1		0130	19	1.	1		0745	94	2.	1		1400	169	3.	1		2015	244	1.
1		0135	20	1.	1		0750	95	2.	1		1405	170	3.	1		2020	245	1.
1		0140	21	1.	1		0755	96	2.	1		1410	171	3.	1		2025	246	1.
1		0145	22	1.	1		0800	97	2.	1		1415	172	3.	1		2030	247	1.
1		0150	23	1.	1		0805	98	2.	1		1420	173	3.	1		2035	248	1.
1		0155	24	1.	1		0810	99	2.	1		1425	174	3.	1		2040	249	1.
1		0200	25	1.	1		0815	100	2.	1		1430	175	3.	1		2045	250	1.
1		0205	26	1.	1		0820	101	2.	1		1435	176	3.	1		2050	251	1.
1		0210	27	1.	1		0825	102	2.	1		1440	177	3.	1		2055	252	1.
1		0215	28	1.	1		0830	103	2.	1		1445	178	3.	1		2100	253	1.
1		0220	29	1.	1		0835	104	2.	1		1450	179	3.	1		2105	254	1.
1		0225	30	1.	1		0840	105	2.	1		1455	180	3.	1		2110	255	1.
1		0230	31	1.	1		0845	106	2.	1		1500	181	3.	1		2115	256	1.
1		0235	32	1.	1		0850	107	2.	1		1505	182	3.	1		2120	257	1.
1		0240	33	1.	1		0855	108	2.	1		1510	183	2.	1		2125	258	1.
1		0245	34	1.	1		0900	109	2.	1		1515	184	2.	1		2130	259	1.
1		0250	35	1.	1		0905	110	2.	1		1520	185	2.	1		2135	260	1.
1		0255	36	1.	1		0910	111	2.	1		1525	186	2.	1		2140	261	1.
1		0300	37	1.	1		0915	112	2.	1		1530	187	2.	1		2145	262	1.
1		0305	38	1.	1		0920	113	2.	1		1535	188	2.	1		2150	263	1.

1	0310	39	1.	*	1	0925	114	2.	*	1	1540	189	2.	*	1	2155	264	1.
1	0315	40	1.	*	1	0930	115	2.	*	1	1545	190	2.	*	1	2200	265	1.
1	0320	41	1.	*	1	0935	116	3.	*	1	1550	191	2.	*	1	2205	266	1.
1	0325	42	1.	*	1	0940	117	3.	*	1	1555	192	2.	*	1	2210	267	1.
1	0330	43	1.	*	1	0945	118	3.	*	1	1600	193	2.	*	1	2215	268	1.
1	0335	44	1.	*	1	0950	119	3.	*	1	1605	194	2.	*	1	2220	269	1.
1	0340	45	1.	*	1	0955	120	3.	*	1	1610	195	2.	*	1	2225	270	1.
1	0345	46	1.	*	1	1000	121	3.	*	1	1615	196	2.	*	1	2230	271	1.
1	0350	47	1.	*	1	1005	122	3.	*	1	1620	197	2.	*	1	2235	272	1.
1	0355	48	1.	*	1	1010	123	3.	*	1	1625	198	2.	*	1	2240	273	1.
1	0400	49	1.	*	1	1015	124	3.	*	1	1630	199	2.	*	1	2245	274	1.
1	0405	50	1.	*	1	1020	125	3.	*	1	1635	200	2.	*	1	2250	275	1.
1	0410	51	1.	*	1	1025	126	3.	*	1	1640	201	2.	*	1	2255	276	1.
1	0415	52	1.	*	1	1030	127	4.	*	1	1645	202	2.	*	1	2300	277	1.
1	0420	53	1.	*	1	1035	128	4.	*	1	1650	203	2.	*	1	2305	278	1.
1	0425	54	1.	*	1	1040	129	4.	*	1	1655	204	2.	*	1	2310	279	1.
1	0430	55	1.	*	1	1045	130	4.	*	1	1700	205	2.	*	1	2315	280	1.
1	0435	56	1.	*	1	1050	131	5.	*	1	1705	206	2.	*	1	2320	281	1.
1	0440	57	1.	*	1	1055	132	5.	*	1	1710	207	2.	*	1	2325	282	1.
1	0445	58	1.	*	1	1100	133	5.	*	1	1715	208	2.	*	1	2330	283	1.
1	0450	59	1.	*	1	1105	134	5.	*	1	1720	209	2.	*	1	2335	284	1.
1	0455	60	1.	*	1	1110	135	6.	*	1	1725	210	2.	*	1	2340	285	1.
1	0500	61	1.	*	1	1115	136	6.	*	1	1730	211	2.	*	1	2345	286	1.
1	0505	62	1.	*	1	1120	137	7.	*	1	1735	212	2.	*	1	2350	287	1.
1	0510	63	1.	*	1	1125	138	7.	*	1	1740	213	2.	*	1	2355	288	1.
1	0515	64	1.	*	1	1130	139	7.	*	1	1745	214	1.	*	2	0000	289	1.
1	0520	65	1.	*	1	1135	140	36.	*	1	1750	215	1.	*	2	0005	290	1.
1	0525	66	1.	*	1	1140	141	139.	*	1	1755	216	1.	*	2	0010	291	1.
1	0530	67	1.	*	1	1145	142	286.	*	1	1800	217	1.	*	2	0015	292	0.
1	0535	68	1.	*	1	1150	143	376.	*	1	1805	218	1.	*	2	0020	293	0.
1	0540	69	1.	*	1	1155	144	439.	*	1	1810	219	1.	*	2	0025	294	0.
1	0545	70	1.	*	1	1200	145	483.	*	1	1815	220	1.	*	2	0030	295	0.
1	0550	71	1.	*	1	1205	146	481.	*	1	1820	221	1.	*	2	0035	296	0.
1	0555	72	1.	*	1	1210	147	389.	*	1	1825	222	1.	*	2	0040	297	0.
1	0600	73	1.	*	1	1215	148	245.	*	1	1830	223	1.	*	2	0045	298	0.
1	0605	74	1.	*	1	1220	149	162.	*	1	1835	224	1.	*	2	0050	299	0.
1	0610	75	1.	*	1	1225	150	106.	*	1	1840	225	1.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
483.	12.00	(CFS)	49.	13.	13.	13.
		(INCHES)	1.238	1.334	1.335	1.335
		(AC-FT)	24.	26.	26.	26.

CUMULATIVE AREA = .37 SQ MI

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          *            *
813 KK    *     P1-1P  *       Routing thru P2
          *            *
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814 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

HYDROGRAPH ROUTING DATA

815 RS STORAGE ROUTING

NSTPS	4	NUMBER OF SUBREACHES
ITYP	FLOW	TYPE OF INITIAL CONDITION
RSVRIC	.00	INITIAL CONDITION
X	.00	WORKING R AND D COEFFICIENT

816 RC NORMAL DEPTH CHANNEL

ANL	.048	LEFT OVERBANK N-VALUE
ANCH	.068	MAIN CHANNEL N-VALUE
ANR	.048	RIGHT OVERBANK N-VALUE
RLNTH	13340.	REACH LENGTH
SEL	.0805	ENERGY SLOPE
ELMAX	.0	MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

CROSS-SECTION DATA

		--- LEFT OVERBANK ---		+ ------ MAIN CHANNEL -------			+ --- RIGHT OVERBANK ---		
RY	ELEVATION	26.00	25.00	24.00	10.00	10.00	26.00	27.00	28.00
RX	DISTANCE	.00	60.00	120.00	134.00	144.00	158.00	218.00	278.00

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COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	3.16	6.83	11.02	15.73	20.95	26.68	32.94	39.70	46.98
OUTFLOW	.00	56.13	179.21	357.91	591.02	879.71	1226.05	1632.50	2101.70	2636.36
ELEVATION	10.00	10.95	11.89	12.84	13.79	14.74	15.68	16.63	17.58	18.53
STORAGE	54.78	63.09	71.92	81.26	91.12	101.90	124.50	163.83	219.75	292.16
OUTFLOW	3239.22	3913.03	4660.49	5484.31	6387.16	7403.48	8843.79	11140.62	15106.07	20669.01
ELEVATION	19.47	20.42	21.37	22.32	23.26	24.21	25.16	26.11	27.05	28.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 2102. TO 20669.
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 P1-1P
TRANSPOSITION AREA .0 SQ MI

AK FLOW	TIME		MAXIMUM AVERAGE FLOW			
CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
430.	12.25	(CFS)	50.	13.	13.	13.
		(INCHES)	1.259	1.356	1.357	1.357
		(AC-FT)	25.	27.	27.	27.

PEAK STORAGE (AC-FT)	TIME (HR)		MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
3.	12.25		0.	0.	0.	0.

PEAK STAGE (FEET)	TIME (HR)		MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
13.13	12.25		10.51	10.14	10.14	10.14

CUMULATIVE AREA = .37 SQ MI

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HYDROGRAPH AT STATION P1-1P
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
416.	12.25	(CFS)	49.	13.	13.	13.
		(INCHES)	1.222	1.317	1.318	1.318
		(AC-FT)	24.	26.	26.	26.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
3.	12.25	0.	0.	0.	0.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
13.08	12.25	10.50	10.14	10.14	10.14

CUMULATIVE AREA = .37 SQ MI

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

HYDROGRAPH AT STATION P1-1P
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
390.	12.25	(CFS)	46.	12.	12.	12.
		(INCHES)	1.161	1.253	1.254	1.254
		(AC-FT)	23.	25.	25.	25.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
3.	12.25	0.	0.	0.	0.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
12.97	12.25	10.48	10.14	10.13	10.13

CUMULATIVE AREA = .37 SQ MI

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

HYDROGRAPH AT STATION P1-1P
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
334.	12.33	(CFS)	41.	11.	11.	11.
		(INCHES)	1.023	1.109	1.109	1.109
		(AC-FT)	20.	22.	22.	22.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
3.	12.33	0.	0.	0.	0.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
12.72	12.33	10.45	10.13	10.12	10.12

CUMULATIVE AREA = .37 SQ MI

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HYDROGRAPH AT STATION P1-1P
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
313.	12.33	(CFS)	38.	10.	10.	10.
		(INCHES)	.960	1.043	1.043	1.043
		(AC-FT)	19.	21.	21.	21.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
2.	12.33	0.	0.	0.	0.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
12.60	12.33	10.43	10.12	10.12	10.12

CUMULATIVE AREA = .37 SQ MI

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HYDROGRAPH AT STATION P1-1P
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
263.	12.33	(CFS)	33.	9.	9.	9.
		(INCHES)	.818	.894	.894	.894
		(AC-FT)	16.	18.	18.	18.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
2.	12.33	0.	0.	0.	0.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
12.34	12.33	10.39	10.11	10.11	10.11

CUMULATIVE AREA = .37 SQ MI

INTERPOLATED HYDROGRAPH AT P1-1P

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	1.	1		1230	151	285.	1		1845	226	1.
1		0005	2	0.	1		0620	77	1.	1		1235	152	219.	1		1850	227	1.
1		0010	3	0.	1		0625	78	1.	1		1240	153	169.	1		1855	228	1.
1		0015	4	0.	1		0630	79	1.	1		1245	154	133.	1		1900	229	1.
1		0020	5	0.	1		0635	80	1.	1		1250	155	102.	1		1905	230	1.
1		0025	6	0.	1		0640	81	1.	1		1255	156	78.	1		1910	231	1.
1		0030	7	0.	1		0645	82	1.	1		1300	157	62.	1		1915	232	1.
1		0035	8	0.	1		0650	83	1.	1		1305	158	53.	1		1920	233	1.
1		0040	9	0.	1		0655	84	1.	1		1310	159	47.	1		1925	234	1.
1		0045	10	0.	1		0700	85	1.	1		1315	160	41.	1		1930	235	1.
1		0050	11	0.	1		0705	86	1.	1		1320	161	35.	1		1935	236	1.
1		0055	12	0.	1		0710	87	1.	1		1325	162	30.	1		1940	237	1.
1		0100	13	0.	1		0715	88	1.	1		1330	163	25.	1		1945	238	1.
1		0105	14	1.	1		0720	89	1.	1		1335	164	20.	1		1950	239	1.
1		0110	15	1.	1		0725	90	1.	1		1340	165	17.	1		1955	240	1.
1		0115	16	1.	1		0730	91	1.	1		1345	166	14.	1		2000	241	1.
1		0120	17	1.	1		0735	92	1.	1		1350	167	12.	1		2005	242	1.
1		0125	18	1.	1		0740	93	1.	1		1355	168	10.	1		2010	243	1.
1		0130	19	1.	1		0745	94	2.	1		1400	169	8.	1		2015	244	1.
1		0135	20	1.	1		0750	95	2.	1		1405	170	7.	1		2020	245	1.
1		0140	21	1.	1		0755	96	2.	1		1410	171	6.	1		2025	246	1.
1		0145	22	1.	1		0800	97	2.	1		1415	172	6.	1		2030	247	1.
1		0150	23	1.	1		0805	98	2.	1		1420	173	5.	1		2035	248	1.
1		0155	24	1.	1		0810	99	2.	1		1425	174	5.	1		2040	249	1.
1		0200	25	1.	1		0815	100	2.	1		1430	175	4.	1		2045	250	1.
1		0205	26	1.	1		0820	101	2.	1		1435	176	4.	1		2050	251	1.
1		0210	27	1.	1		0825	102	2.	1		1440	177	4.	1		2055	252	1.
1		0215	28	1.	1		0830	103	2.	1		1445	178	4.	1		2100	253	1.
1		0220	29	1.	1		0835	104	2.	1		1450	179	3.	1		2105	254	1.
1		0225	30	1.	1		0840	105	2.	1		1455	180	3.	1		2110	255	1.
1		0230	31	1.	1		0845	106	2.	1		1500	181	3.	1		2115	256	1.
1		0235	32	1.	1		0850	107	2.	1		1505	182	3.	1		2120	257	1.
1		0240	33	1.	1		0855	108	2.	1		1510	183	3.	1		2125	258	1.
1		0245	34	1.	1		0900	109	2.	1		1515	184	3.	1		2130	259	1.
1		0250	35	1.	1		0905	110	2.	1		1520	185	3.	1		2135	260	1.
1		0255	36	1.	1		0910	111	2.	1		1525	186	3.	1		2140	261	1.
1		0300	37	1.	1		0915	112	2.	1		1530	187	3.	1		2145	262	1.
1		0305	38	1.	1		0920	113	2.	1		1535	188	3.	1		2150	263	1.
1		0310	39	1.	1		0925	114	2.	1		1540	189	3.	1		2155	264	1.
1		0315	40	1.	1		0930	115	2.	1		1545	190	3.	1		2200	265	1.
1		0320	41	1.	1		0935	116	2.	1		1550	191	2.	1		2205	266	1.
1		0325	42	1.	1		0940	117	2.	1		1555	192	2.	1		2210	267	1.
1		0330	43	1.	1		0945	118	2.	1		1600	193	2.	1		2215	268	1.
1		0335	44	1.	1		0950	119	2.	1		1605	194	2.	1		2220	269	1.
1		0340	45	1.	1		0955	120	2.	1		1610	195	2.	1		2225	270	1.
1		0345	46	1.	1		1000	121	2.	1		1615	196	2.	1		2230	271	1.
1		0350	47	1.	1		1005	122	2.	1		1620	197	2.	1		2235	272	1.
1		0355	48	1.	1		1010	123	2.	1		1625	198	2.	1		2240	273	1.
1		0400	49	1.	1		1015	124	3.	1		1630	199	2.	1		2245	274	1.
1		0405	50	1.	1		1020	125	3.	1		1635	200	2.	1		2250	275	1.
1		0410	51	1.	1		1025	126	3.	1		1640	201	2.	1		2255	276	1.

1	0415	52	1.	*	1	1030	127	3.	*	1	1645	202	2.	*	1	2300	277	1.
1	0420	53	1.	*	1	1035	128	3.	*	1	1650	203	2.	*	1	2305	278	1.
1	0425	54	1.	*	1	1040	129	3.	*	1	1655	204	2.	*	1	2310	279	1.
1	0430	55	1.	*	1	1045	130	3.	*	1	1700	205	2.	*	1	2315	280	1.
1	0435	56	1.	*	1	1050	131	3.	*	1	1705	206	2.	*	1	2320	281	1.
1	0440	57	1.	*	1	1055	132	3.	*	1	1710	207	2.	*	1	2325	282	1.
1	0445	58	1.	*	1	1100	133	3.	*	1	1715	208	2.	*	1	2330	283	1.
1	0450	59	1.	*	1	1105	134	4.	*	1	1720	209	2.	*	1	2335	284	1.
1	0455	60	1.	*	1	1110	135	4.	*	1	1725	210	2.	*	1	2340	285	1.
1	0500	61	1.	*	1	1115	136	4.	*	1	1730	211	2.	*	1	2345	286	1.
1	0505	62	1.	*	1	1120	137	4.	*	1	1735	212	2.	*	1	2350	287	1.
1	0510	63	1.	*	1	1125	138	4.	*	1	1740	213	2.	*	1	2355	288	1.
1	0515	64	1.	*	1	1130	139	5.	*	1	1745	214	2.	*	2	0000	289	1.
1	0520	65	1.	*	1	1135	140	5.	*	1	1750	215	2.	*	2	0005	290	1.
1	0525	66	1.	*	1	1140	141	6.	*	1	1755	216	2.	*	2	0010	291	1.
1	0530	67	1.	*	1	1145	142	8.	*	1	1800	217	2.	*	2	0015	292	1.
1	0535	68	1.	*	1	1150	143	17.	*	1	1805	218	2.	*	2	0020	293	1.
1	0540	69	1.	*	1	1155	144	48.	*	1	1810	219	2.	*	2	0025	294	1.
1	0545	70	1.	*	1	1200	145	142.	*	1	1815	220	2.	*	2	0030	295	1.
1	0550	71	1.	*	1	1205	146	269.	*	1	1820	221	2.	*	2	0035	296	1.
1	0555	72	1.	*	1	1210	147	371.	*	1	1825	222	2.	*	2	0040	297	1.
1	0600	73	1.	*	1	1215	148	422.	*	1	1830	223	1.	*	2	0045	298	1.
1	0605	74	1.	*	1	1220	149	406.	*	1	1835	224	1.	*	2	0050	299	0.
1	0610	75	1.	*	1	1225	150	350.	*	1	1840	225	1.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
422.	12.25	(CFS)	49.	13.	13.	13.
		(INCHES)	1.238	1.334	1.334	1.334
		(AC-FT)	24.	26.	26.	26.

CUMULATIVE AREA = .37 SQ MI

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          **************
          *            *
819 KK    *        P2  *
          *            *
          **************
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BASIN P2
THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
L= 2.5 Lca= 2.0 S= 425.0 Kn= .050 LAG= 42.0
PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN

824 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

SUBBASIN RUNOFF DATA

BA SUBBASIN CHARACTERISTICS

TAREA	1.43	SUBBASIN AREA

826 LG GREEN AND AMPT LOSS RATE

STRTL	.27	STARTING LOSS
DTH	.35	MOISTURE DEFICIT
PSIF	4.19	WETTING FRONT SUCTION
XKSAT	.40	HYDRAULIC CONDUCTIVITY
RTIMP	9.00	PERCENT IMPERVIOUS AREA

825 UI INPUT UNITGRAPH, 38 ORDINATES, VOLUME = 1.00

114.0	129.0	373.0	584.0	758.0	888.0	1151.0	1196.0	787.0	673.0
600.0	535.0	467.0	405.0	330.0	286.0	261.0	230.0	187.0	146.0
136.0	125.0	98.0	88.0	81.0	56.0	56.0	56.0	47.0	22.0
22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0		

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HYDROGRAPH AT STATION P2
TRANSPOSITION AREA .0 SQ MI

TOTAL RAINFALL = 4.20, TOTAL LOSS = 2.79, TOTAL EXCESS = 1.41

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1090.	12.33	(CFS)	200.	54.	52.	52.
		(INCHES)	1.299	1.409	1.409	1.409
		(AC-FT)	99.	107.	107.	107.

CUMULATIVE AREA = 1.43 SQ MI

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

HYDROGRAPH AT STATION P2
TRANSPOSITION AREA 5.0 SQ MI

TOTAL RAINFALL = 4.12, TOTAL LOSS = 2.74, TOTAL EXCESS = 1.38

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1059.	12.33	(CFS)	194.	53.	51.	51.
		(INCHES)	1.262	1.370	1.370	1.370
		(AC-FT)	96.	104.	105.	105.

CUMULATIVE AREA = 1.43 SQ MI

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

HYDROGRAPH AT STATION P2
TRANSPOSITION AREA 10.0 SQ MI

TOTAL RAINFALL = 3.99, TOTAL LOSS = 2.68, TOTAL EXCESS = 1.31

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1007.	12.33	(CFS)	185.	50.	48.	48.
		(INCHES)	1.202	1.306	1.307	1.307
		(AC-FT)	92.	100.	100.	100.

CUMULATIVE AREA = 1.43 SQ MI

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

HYDROGRAPH AT STATION P2
TRANSPOSITION AREA 50.0 SQ MI

TOTAL RAINFALL = 3.70, TOTAL LOSS = 2.53, TOTAL EXCESS = 1.17

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
890.	12.33	(CFS)	164.	45.	43.	43.
		(INCHES)	1.066	1.162	1.163	1.163
		(AC-FT)	81.	89.	89.	89.

CUMULATIVE AREA = 1.43 SQ MI

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HYDROGRAPH AT STATION P2
TRANSPOSITION AREA 100.0 SQ MI

TOTAL RAINFALL = 3.57, TOTAL LOSS = 2.47, TOTAL EXCESS = 1.10

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
837.	12.33	(CFS)	154.	42.	41.	41.
		(INCHES)	1.004	1.097	1.098	1.098
		(AC-FT)	77.	84.	84.	84.

CUMULATIVE AREA = 1.43 SQ MI

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HYDROGRAPH AT STATION P2
TRANSPOSITION AREA 500.0 SQ MI

TOTAL RAINFALL = 3.28, TOTAL LOSS = 2.33, TOTAL EXCESS = .95

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
717.	12.33	(CFS)	133.	37.	35.	35.
		(INCHES)	.864	.950	.951	.951
		(AC-FT)	66.	72.	73.	73.

CUMULATIVE AREA = 1.43 SQ MI

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INTERPOLATED HYDROGRAPH AT P2

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	6.	1		1230	151	976.	1		1845	226	6.
1		0005	2	0.	1		0620	77	6.	1		1235	152	848.	1		1850	227	6.
1		0010	3	0.	1		0625	78	6.	1		1240	153	698.	1		1855	228	6.
1		0015	4	0.	1		0630	79	6.	1		1245	154	612.	1		1900	229	6.
1		0020	5	0.	1		0635	80	6.	1		1250	155	538.	1		1905	230	6.
1		0025	6	1.	1		0640	81	6.	1		1255	156	473.	1		1910	231	6.
1		0030	7	1.	1		0645	82	6.	1		1300	157	414.	1		1915	232	6.
1		0035	8	1.	1		0650	83	6.	1		1305	158	359.	1		1920	233	6.
1		0040	9	2.	1		0655	84	6.	1		1310	159	308.	1		1925	234	6.
1		0045	10	2.	1		0700	85	6.	1		1315	160	270.	1		1930	235	6.
1		0050	11	2.	1		0705	86	6.	1		1320	161	238.	1		1935	236	6.
1		0055	12	2.	1		0710	87	6.	1		1325	162	205.	1		1940	237	6.
1		0100	13	3.	1		0715	88	6.	1		1330	163	177.	1		1945	238	6.
1		0105	14	3.	1		0720	89	6.	1		1335	164	155.	1		1950	239	5.
1		0110	15	3.	1		0725	90	6.	1		1340	165	137.	1		1955	240	5.
1		0115	16	3.	1		0730	91	6.	1		1345	166	120.	1		2000	241	5.
1		0120	17	3.	1		0735	92	7.	1		1350	167	106.	1		2005	242	5.
1		0125	18	3.	1		0740	93	7.	1		1355	168	95.	1		2010	243	5.
1		0130	19	3.	1		0745	94	7.	1		1400	169	82.	1		2015	244	5.
1		0135	20	3.	1		0750	95	7.	1		1405	170	70.	1		2020	245	5.
1		0140	21	3.	1		0755	96	7.	1		1410	171	62.	1		2025	246	5.
1		0145	22	3.	1		0800	97	7.	1		1415	172	55.	1		2030	247	5.
1		0150	23	3.	1		0805	98	7.	1		1420	173	48.	1		2035	248	5.
1		0155	24	4.	1		0810	99	7.	1		1425	174	42.	1		2040	249	5.
1		0200	25	4.	1		0815	100	7.	1		1430	175	42.	1		2045	250	5.
1		0205	26	4.	1		0820	101	7.	1		1435	176	41.	1		2050	251	5.
1		0210	27	4.	1		0825	102	8.	1		1440	177	40.	1		2055	252	5.
1		0215	28	4.	1		0830	103	8.	1		1445	178	36.	1		2100	253	5.
1		0220	29	4.	1		0835	104	8.	1		1450	179	31.	1		2105	254	5.
1		0225	30	4.	1		0840	105	8.	1		1455	180	27.	1		2110	255	5.
1		0230	31	4.	1		0845	106	8.	1		1500	181	22.	1		2115	256	5.
1		0235	32	4.	1		0850	107	8.	1		1505	182	18.	1		2120	257	4.
1		0240	33	4.	1		0855	108	8.	1		1510	183	13.	1		2125	258	5.
1		0245	34	4.	1		0900	109	9.	1		1515	184	13.	1		2130	259	5.
1		0250	35	4.	1		0905	110	9.	1		1520	185	12.	1		2135	260	5.
1		0255	36	4.	1		0910	111	9.	1		1525	186	12.	1		2140	261	5.
1		0300	37	4.	1		0915	112	9.	1		1530	187	12.	1		2145	262	5.
1		0305	38	4.	1		0920	113	9.	1		1535	188	11.	1		2150	263	5.
1		0310	39	4.	1		0925	114	9.	1		1540	189	11.	1		2155	264	5.
1		0315	40	4.	1		0930	115	10.	1		1545	190	11.	1		2200	265	5.
1		0320	41	4.	1		0935	116	10.	1		1550	191	10.	1		2205	266	4.
1		0325	42	4.	1		0940	117	10.	1		1555	192	10.	1		2210	267	4.
1		0330	43	4.	1		0945	118	10.	1		1600	193	10.	1		2215	268	4.
1		0335	44	4.	1		0950	119	10.	1		1605	194	10.	1		2220	269	4.
1		0340	45	4.	1		0955	120	11.	1		1610	195	9.	1		2225	270	4.
1		0345	46	4.	1		1000	121	11.	1		1615	196	9.	1		2230	271	4.
1		0350	47	4.	1		1005	122	11.	1		1620	197	9.	1		2235	272	4.
1		0355	48	4.	1		1010	123	11.	1		1625	198	9.	1		2240	273	4.
1		0400	49	4.	1		1015	124	12.	1		1630	199	9.	1		2245	274	4.
1		0405	50	4.	1		1020	125	12.	1		1635	200	9.	1		2250	275	4.
1		0410	51	5.	1		1025	126	12.	1		1640	201	8.	1		2255	276	4.
1		0415	52	5.	1		1030	127	13.	1		1645	202	8.	1		2300	277	4.
1		0420	53	5.	1		1035	128	13.	1		1650	203	8.	1		2305	278	4.
1		0425	54	5.	1		1040	129	14.	1		1655	204	8.	1		2310	279	4.

1	0430	55	5.	*	1	1045	130	14.	*	1	1700	205	8.	*	1	2315	280	4.
1	0435	56	5.	*	1	1050	131	15.	*	1	1705	206	8.	*	1	2320	281	4.
1	0440	57	5.	*	1	1055	132	15.	*	1	1710	207	8.	*	1	2325	282	4.
1	0445	58	5.	*	1	1100	133	16.	*	1	1715	208	8.	*	1	2330	283	4.
1	0450	59	5.	*	1	1105	134	17.	*	1	1720	209	8.	*	1	2335	284	4.
1	0455	60	5.	*	1	1110	135	18.	*	1	1725	210	8.	*	1	2340	285	4.
1	0500	61	5.	*	1	1115	136	19.	*	1	1730	211	8.	*	1	2345	286	4.
1	0505	62	5.	*	1	1120	137	20.	*	1	1735	212	7.	*	1	2350	287	4.
1	0510	63	5.	*	1	1125	138	21.	*	1	1740	213	7.	*	1	2355	288	4.
1	0515	64	5.	*	1	1130	139	22.	*	1	1745	214	7.	*	2	0000	289	4.
1	0520	65	5.	*	1	1135	140	44.	*	1	1750	215	7.	*	2	0005	290	4.
1	0525	66	5.	*	1	1140	141	70.	*	1	1755	216	7.	*	2	0010	291	4.
1	0530	67	5.	*	1	1145	142	139.	*	1	1800	217	7.	*	2	0015	292	3.
1	0535	68	5.	*	1	1150	143	248.	*	1	1805	218	7.	*	2	0020	293	3.
1	0540	69	5.	*	1	1155	144	391.	*	1	1810	219	7.	*	2	0025	294	3.
1	0545	70	5.	*	1	1200	145	559.	*	1	1815	220	7.	*	2	0030	295	3.
1	0550	71	5.	*	1	1205	146	754.	*	1	1820	221	6.	*	2	0035	296	2.
1	0555	72	5.	*	1	1210	147	958.	*	1	1825	222	6.	*	2	0040	297	2.
1	0600	73	5.	*	1	1215	148	1042.	*	1	1830	223	6.	*	2	0045	298	2.
1	0605	74	6.	*	1	1220	149	1065.	*	1	1835	224	6.	*	2	0050	299	1.
1	0610	75	6.	*	1	1225	150	1040.	*	1	1840	225	6.	*	2	0055	300	1.
				*					*					*				

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1065.	12.33	(CFS)	195.	53.	51.	51.
		(INCHES)	1.269	1.377	1.378	1.378
		(AC-FT)	97.	105.	105.	105.

CUMULATIVE AREA = 1.43 SQ MI

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          *            *
832 KK    *        1P  *
          *            *
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Combining P1 & P2

834 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

835 HC HYDROGRAPH COMBINATION

ICOMP	2	NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 1P
TRANSPOSITION AREA .0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1503.	12.33	(CFS)	250.	68.	65.	65.
		(INCHES)	1.291	1.398	1.399	1.399
		(AC-FT)	124.	134.	134.	134.

CUMULATIVE AREA = 1.80 SQ MI

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HYDROGRAPH AT STATION 1P
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1459.	12.33	(CFS)	243.	66.	63.	63.
		(INCHES)	1.254	1.359	1.360	1.360
		(AC-FT)	120.	130.	131.	131.

CUMULATIVE AREA = 1.80 SQ MI

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HYDROGRAPH AT STATION 1P
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1387.	12.33	(CFS)	231.	63.	60.	60.
		(INCHES)	1.193	1.295	1.296	1.296
		(AC-FT)	115.	124.	124.	124.

CUMULATIVE AREA = 1.80 SQ MI

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

HYDROGRAPH AT STATION 1P
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1224.	12.33	(CFS)	205.	56.	54.	54.
		(INCHES)	1.057	1.151	1.152	1.152
		(AC-FT)	101.	111.	111.	111.

CUMULATIVE AREA = 1.80 SQ MI

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HYDROGRAPH AT STATION 1P

TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1149.	12.33	(CFS)	193.	53.	51.	51.
		(INCHES)	.995	1.086	1.087	1.087
		(AC-FT)	96.	104.	104.	104.

CUMULATIVE AREA = 1.80 SQ MI

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HYDROGRAPH AT STATION 1P
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
980.	12.33	(CFS)	165.	45.	44.	44.
		(INCHES)	.855	.938	.939	.939
		(AC-FT)	82.	90.	90.	90.

CUMULATIVE AREA = 1.80 SQ MI

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INTERPOLATED HYDROGRAPH AT 1P

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	7.	*	1		1230	151	1258.	*	1		1845	226	7.
1		0005	2	0.	*	1		0620	77	7.	*	1		1235	152	1065.	*	1		1850	227	7.
1		0010	3	0.	*	1		0625	78	7.	*	1		1240	153	865.	*	1		1855	228	7.
1		0015	4	0.	*	1		0630	79	7.	*	1		1245	154	743.	*	1		1900	229	7.
1		0020	5	0.	*	1		0635	80	7.	*	1		1250	155	639.	*	1		1905	230	7.
1		0025	6	1.	*	1		0640	81	7.	*	1		1255	156	550.	*	1		1910	231	7.
1		0030	7	1.	*	1		0645	82	7.	*	1		1300	157	475.	*	1		1915	232	7.
1		0035	8	1.	*	1		0650	83	7.	*	1		1305	158	412.	*	1		1920	233	7.
1		0040	9	2.	*	1		0655	84	7.	*	1		1310	159	355.	*	1		1925	234	7.
1		0045	10	2.	*	1		0700	85	7.	*	1		1315	160	311.	*	1		1930	235	7.
1		0050	11	2.	*	1		0705	86	7.	*	1		1320	161	273.	*	1		1935	236	7.
1		0055	12	3.	*	1		0710	87	8.	*	1		1325	162	235.	*	1		1940	237	7.
1		0100	13	3.	*	1		0715	88	8.	*	1		1330	163	201.	*	1		1945	238	7.
1		0105	14	3.	*	1		0720	89	8.	*	1		1335	164	175.	*	1		1950	239	7.
1		0110	15	4.	*	1		0725	90	8.	*	1		1340	165	153.	*	1		1955	240	7.
1		0115	16	4.	*	1		0730	91	8.	*	1		1345	166	134.	*	1		2000	241	7.
1		0120	17	4.	*	1		0735	92	8.	*	1		1350	167	118.	*	1		2005	242	6.
1		0125	18	4.	*	1		0740	93	8.	*	1		1355	168	105.	*	1		2010	243	6.
1		0130	19	4.	*	1		0745	94	8.	*	1		1400	169	90.	*	1		2015	244	6.
1		0135	20	4.	*	1		0750	95	9.	*	1		1405	170	77.	*	1		2020	245	6.
1		0140	21	4.	*	1		0755	96	9.	*	1		1410	171	69.	*	1		2025	246	6.
1		0145	22	4.	*	1		0800	97	9.	*	1		1415	172	61.	*	1		2030	247	6.
1		0150	23	4.	*	1		0805	98	9.	*	1		1420	173	53.	*	1		2035	248	6.
1		0155	24	4.	*	1		0810	99	9.	*	1		1425	174	47.	*	1		2040	249	6.
1		0200	25	4.	*	1		0815	100	9.	*	1		1430	175	46.	*	1		2045	250	6.
1		0205	26	4.	*	1		0820	101	9.	*	1		1435	176	45.	*	1		2050	251	6.
1		0210	27	5.	*	1		0825	102	9.	*	1		1440	177	44.	*	1		2055	252	6.

1	0215	28	5.	*	1	0830	103	9.	*	1	1445	178	39.	*	1	2100	253	6.
1	0220	29	5.	*	1	0835	104	10.	*	1	1450	179	35.	*	1	2105	254	6.
1	0225	30	5.	*	1	0840	105	10.	*	1	1455	180	30.	*	1	2110	255	6.
1	0230	31	5.	*	1	0845	106	10.	*	1	1500	181	25.	*	1	2115	256	6.
1	0235	32	5.	*	1	0850	107	10.	*	1	1505	182	21.	*	1	2120	257	6.
1	0240	33	5.	*	1	0855	108	10.	*	1	1510	183	16.	*	1	2125	258	6.
1	0245	34	5.	*	1	0900	109	11.	*	1	1515	184	15.	*	1	2130	259	6.
1	0250	35	5.	*	1	0905	110	11.	*	1	1520	185	15.	*	1	2135	260	6.
1	0255	36	5.	*	1	0910	111	11.	*	1	1525	186	15.	*	1	2140	261	6.
1	0300	37	5.	*	1	0915	112	11.	*	1	1530	187	14.	*	1	2145	262	6.
1	0305	38	5.	*	1	0920	113	11.	*	1	1535	188	14.	*	1	2150	263	6.
1	0310	39	5.	*	1	0925	114	11.	*	1	1540	189	14.	*	1	2155	264	6.
1	0315	40	5.	*	1	0930	115	12.	*	1	1545	190	13.	*	1	2200	265	6.
1	0320	41	5.	*	1	0935	116	12.	*	1	1550	191	13.	*	1	2205	266	5.
1	0325	42	5.	*	1	0940	117	12.	*	1	1555	192	13.	*	1	2210	267	5.
1	0330	43	5.	*	1	0945	118	12.	*	1	1600	193	12.	*	1	2215	268	5.
1	0335	44	5.	*	1	0950	119	13.	*	1	1605	194	12.	*	1	2220	269	5.
1	0340	45	5.	*	1	0955	120	13.	*	1	1610	195	12.	*	1	2225	270	5.
1	0345	46	5.	*	1	1000	121	13.	*	1	1615	196	11.	*	1	2230	271	5.
1	0350	47	5.	*	1	1005	122	13.	*	1	1620	197	11.	*	1	2235	272	5.
1	0355	48	5.	*	1	1010	123	14.	*	1	1625	198	11.	*	1	2240	273	5.
1	0400	49	5.	*	1	1015	124	14.	*	1	1630	199	11.	*	1	2245	274	5.
1	0405	50	5.	*	1	1020	125	14.	*	1	1635	200	11.	*	1	2250	275	5.
1	0410	51	6.	*	1	1025	126	15.	*	1	1640	201	10.	*	1	2255	276	5.
1	0415	52	6.	*	1	1030	127	15.	*	1	1645	202	10.	*	1	2300	277	5.
1	0420	53	6.	*	1	1035	128	16.	*	1	1650	203	10.	*	1	2305	278	5.
1	0425	54	6.	*	1	1040	129	17.	*	1	1655	204	10.	*	1	2310	279	5.
1	0430	55	6.	*	1	1045	130	17.	*	1	1700	205	10.	*	1	2315	280	5.
1	0435	56	6.	*	1	1050	131	18.	*	1	1705	206	10.	*	1	2320	281	5.
1	0440	57	6.	*	1	1055	132	18.	*	1	1710	207	10.	*	1	2325	282	5.
1	0445	58	6.	*	1	1100	133	19.	*	1	1715	208	10.	*	1	2330	283	5.
1	0450	59	6.	*	1	1105	134	20.	*	1	1720	209	9.	*	1	2335	284	5.
1	0455	60	6.	*	1	1110	135	21.	*	1	1725	210	9.	*	1	2340	285	5.
1	0500	61	6.	*	1	1115	136	22.	*	1	1730	211	9.	*	1	2345	286	5.
1	0505	62	6.	*	1	1120	137	24.	*	1	1735	212	9.	*	1	2350	287	5.
1	0510	63	6.	*	1	1125	138	25.	*	1	1740	213	9.	*	1	2355	288	5.
1	0515	64	6.	*	1	1130	139	27.	*	1	1745	214	9.	*	2	0000	289	5.
1	0520	65	6.	*	1	1135	140	49.	*	1	1750	215	9.	*	2	0005	290	5.
1	0525	66	6.	*	1	1140	141	75.	*	1	1755	216	9.	*	2	0010	291	4.
1	0530	67	6.	*	1	1145	142	147.	*	1	1800	217	9.	*	2	0015	292	4.
1	0535	68	6.	*	1	1150	143	265.	*	1	1805	218	8.	*	2	0020	293	4.
1	0540	69	6.	*	1	1155	144	437.	*	1	1810	219	8.	*	2	0025	294	4.
1	0545	70	6.	*	1	1200	145	698.	*	1	1815	220	8.	*	2	0030	295	3.
1	0550	71	7.	*	1	1205	146	1019.	*	1	1820	221	8.	*	2	0035	296	3.
1	0555	72	7.	*	1	1210	147	1324.	*	1	1825	222	8.	*	2	0040	297	3.
1	0600	73	7.	*	1	1215	148	1459.	*	1	1830	223	8.	*	2	0045	298	2.
1	0605	74	7.	*	1	1220	149	1467.	*	1	1835	224	8.	*	2	0050	299	2.
1	0610	75	7.	*	1	1225	150	1386.	*	1	1840	225	7.	*	2	0055	300	2.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
1467.	12.33	(CFS)	244.	66.	64.	64.
		(INCHES)	1.260	1.365	1.366	1.366
		(AC-FT)	121.	131.	131.	131.

CUMULATIVE AREA = 1.80 SQ MI

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          *            *
836 KK    *    1P-2P   *        Routing thru P3
          *            *
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837 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

HYDROGRAPH ROUTING DATA

838 RS STORAGE ROUTING

NSTPS	12	NUMBER OF SUBREACHES
ITYP	FLOW	TYPE OF INITIAL CONDITION
RSVRIC	.00	INITIAL CONDITION
X	.00	WORKING R AND D COEFFICIENT

[illegible] RC NORMAL DEPTH CHANNEL

ANL	.053	LEFT OVERBANK N-VALUE
ANCH	.047	MAIN CHANNEL N-VALUE
ANR	.052	RIGHT OVERBANK N-VALUE
RLNTH	19430.	REACH LENGTH
SEL	.0245	ENERGY SLOPE
ELMAX	.0	MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

CROSS-SECTION DATA

		--- LEFT OVERBANK ---		+ ------ MAIN CHANNEL -------			+ --- RIGHT OVERBANK ---		
841 RY	ELEVATION	17.00	15.00	13.00	10.00	10.00	12.00	15.00	17.00
840 RX	DISTANCE	.00	110.00	230.00	235.00	243.00	248.00	368.00	478.00

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COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	1.44	3.13	5.08	7.28	9.73	12.80	18.19	26.10	37.83
OUTFLOW	.00	7.70	25.22	51.40	86.25	130.09	187.50	268.07	381.18	547.41
ELEVATION	10.00	10.37	10.74	11.11	11.47	11.84	12.21	12.58	12.95	13.32
STORAGE	55.57	79.38	109.23	145.14	187.17	235.75	290.99	352.89	421.45	496.68
OUTFLOW	787.61	1123.71	1575.21	2159.79	2882.93	3762.20	4830.00	6101.72	7592.33	9316.41
ELEVATION	13.68	14.05	14.42	14.79	15.16	15.53	15.89	16.26	16.63	17.00

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HYDROGRAPH AT STATION 1P-2P
TRANSPOSITION AREA .0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1183.	13.17	(CFS)	250.	67.	65.	65.
		(INCHES)	1.290	1.390	1.390	1.390
		(AC-FT)	124.	133.	133.	133.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
7.	13.17	2.	0.	0.	0.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
14.10	13.17	11.71	10.64	10.62	10.62

CUMULATIVE AREA = 1.80 SQ MI

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HYDROGRAPH AT STATION 1P-2P
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1145.	13.17	(CFS)	243.	65.	63.	63.
		(INCHES)	1.253	1.351	1.351	1.351
		(AC-FT)	120.	130.	130.	130.

STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
7.	13.17	1.	0.	0.	0.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
14.07	13.17	11.69	10.64	10.61	10.61

CUMULATIVE AREA = 1.80 SQ MI

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HYDROGRAPH AT STATION 1P-2P
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1082.	13.17	(CFS)	231.	62.	60.	60.
		(INCHES)	1.193	1.288	1.288	1.288
		(AC-FT)	115.	124.	124.	124.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
6.	13.17	1.	0.	0.	0.

STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
14.01	13.17	11.66	10.62	10.60	10.60

CUMULATIVE AREA = 1.80 SQ MI

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HYDROGRAPH AT STATION 1P-2P
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
951.	13.25	(CFS)	205.	55.	53.	53.
		(INCHES)	1.057	1.144	1.144	1.144
		(AC-FT)	101.	110.	110.	110.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
6.	13.25	1.	0.	0.	0.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
13.86	13.25	11.59	10.59	10.57	10.57

CUMULATIVE AREA = 1.80 SQ MI

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HYDROGRAPH AT STATION 1P-2P
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
893.	13.25	(CFS)	193.	52.	50.	50.
		(INCHES)	.995	1.079	1.079	1.079
		(AC-FT)	95.	104.	104.	104.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
5.	13.25	1.	0.	0.	0.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
13.80	13.25	11.55	10.58	10.56	10.56

CUMULATIVE AREA = 1.80 SQ MI

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HYDROGRAPH AT STATION 1P-2P
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
760.	13.25	(CFS)	165.	45.	43.	43.
		(INCHES)	.854	.932	.932	.932
		(AC-FT)	82.	90.	90.	90.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
4.	13.25	1.	0.	0.	0.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
13.64	13.25	11.47	10.54	10.52	10.52

CUMULATIVE AREA = 1.80 SQ MI

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INTERPOLATED HYDROGRAPH AT 1P-2P

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	6.	1		1230	151	248.	1		1845	226	9.
1		0005	2	0.	1		0620	77	6.	1		1235	152	334.	1		1850	227	9.
1		0010	3	0.	1		0625	78	6.	1		1240	153	445.	1		1855	228	9.
1		0015	4	0.	1		0630	79	6.	1		1245	154	578.	1		1900	229	9.
1		0020	5	0.	1		0635	80	6.	1		1250	155	725.	1		1905	230	9.
1		0025	6	0.	1		0640	81	6.	1		1255	156	881.	1		1910	231	9.
1		0030	7	0.	1		0645	82	6.	1		1300	157	1018.	1		1915	232	8.
1		0035	8	0.	1		0650	83	6.	1		1305	158	1111.	1		1920	233	8.
1		0040	9	0.	1		0655	84	6.	1		1310	159	1151.	1		1925	234	8.
1		0045	10	0.	1		0700	85	6.	1		1315	160	1137.	1		1930	235	8.
1		0050	11	0.	1		0705	86	6.	1		1320	161	1086.	1		1935	236	8.
1		0055	12	0.	1		0710	87	6.	1		1325	162	1012.	1		1940	237	8.
1		0100	13	0.	1		0715	88	6.	1		1330	163	922.	1		1945	238	8.
1		0105	14	0.	1		0720	89	6.	1		1335	164	829.	1		1950	239	8.
1		0110	15	0.	1		0725	90	6.	1		1340	165	738.	1		1955	240	8.
1		0115	16	0.	1		0730	91	6.	1		1345	166	651.	1		2000	241	8.
1		0120	17	0.	1		0735	92	6.	1		1350	167	566.	1		2005	242	8.
1		0125	18	0.	1		0740	93	6.	1		1355	168	486.	1		2010	243	8.
1		0130	19	0.	1		0745	94	6.	1		1400	169	415.	1		2015	244	8.
1		0135	20	0.	1		0750	95	6.	1		1405	170	354.	1		2020	245	8.
1		0140	21	0.	1		0755	96	7.	1		1410	171	301.	1		2025	246	8.
1		0145	22	0.	1		0800	97	7.	1		1415	172	252.	1		2030	247	8.
1		0150	23	0.	1		0805	98	7.	1		1420	173	206.	1		2035	248	8.
1		0155	24	0.	1		0810	99	7.	1		1425	174	162.	1		2040	249	8.
1		0200	25	0.	1		0815	100	7.	1		1430	175	131.	1		2045	250	7.
1		0205	26	0.	1		0820	101	7.	1		1435	176	112.	1		2050	251	7.
1		0210	27	0.	1		0825	102	7.	1		1440	177	98.	1		2055	252	7.
1		0215	28	1.	1		0830	103	7.	1		1445	178	87.	1		2100	253	7.
1		0220	29	1.	1		0835	104	7.	1		1450	179	79.	1		2105	254	7.
1		0225	30	1.	1		0840	105	7.	1		1455	180	72.	1		2110	255	7.
1		0230	31	1.	1		0845	106	7.	1		1500	181	65.	1		2115	256	7.
1		0235	32	1.	1		0850	107	7.	1		1505	182	59.	1		2120	257	7.
1		0240	33	1.	1		0855	108	8.	1		1510	183	55.	1		2125	258	7.
1		0245	34	2.	1		0900	109	8.	1		1515	184	51.	1		2130	259	7.
1		0250	35	2.	1		0905	110	8.	1		1520	185	49.	1		2135	260	7.
1		0255	36	2.	1		0910	111	9.	1		1525	186	46.	1		2140	261	7.
1		0300	37	2.	1		0915	112	9.	1		1530	187	43.	1		2145	262	7.
1		0305	38	2.	1		0920	113	9.	1		1535	188	40.	1		2150	263	7.
1		0310	39	3.	1		0925	114	9.	1		1540	189	37.	1		2155	264	7.
1		0315	40	3.	1		0930	115	9.	1		1545	190	33.	1		2200	265	7.
1		0320	41	3.	1		0935	116	9.	1		1550	191	30.	1		2205	266	7.
1		0325	42	3.	1		0940	117	10.	1		1555	192	28.	1		2210	267	7.
1		0330	43	3.	1		0945	118	10.	1		1600	193	26.	1		2215	268	7.
1		0335	44	3.	1		0950	119	10.	1		1605	194	24.	1		2220	269	6.

1	0340	45	3.	*	1	0955	120	10.	*	1	1610	195	23.	*	1	2225	270	6.
1	0345	46	4.	*	1	1000	121	10.	*	1	1615	196	21.	*	1	2230	271	6.
1	0350	47	4.	*	1	1005	122	10.	*	1	1620	197	20.	*	1	2235	272	6.
1	0355	48	4.	*	1	1010	123	11.	*	1	1625	198	19.	*	1	2240	273	6.
1	0400	49	4.	*	1	1015	124	11.	*	1	1630	199	17.	*	1	2245	274	6.
1	0405	50	4.	*	1	1020	125	11.	*	1	1635	200	16.	*	1	2250	275	6.
1	0410	51	4.	*	1	1025	126	11.	*	1	1640	201	16.	*	1	2255	276	6.
1	0415	52	4.	*	1	1030	127	11.	*	1	1645	202	15.	*	1	2300	277	6.
1	0420	53	4.	*	1	1035	128	12.	*	1	1650	203	14.	*	1	2305	278	6.
1	0425	54	4.	*	1	1040	129	12.	*	1	1655	204	14.	*	1	2310	279	6.
1	0430	55	5.	*	1	1045	130	12.	*	1	1700	205	13.	*	1	2315	280	6.
1	0435	56	5.	*	1	1050	131	12.	*	1	1705	206	13.	*	1	2320	281	6.
1	0440	57	5.	*	1	1055	132	12.	*	1	1710	207	12.	*	1	2325	282	6.
1	0445	58	5.	*	1	1100	133	13.	*	1	1715	208	12.	*	1	2330	283	6.
1	0450	59	5.	*	1	1105	134	13.	*	1	1720	209	12.	*	1	2335	284	6.
1	0455	60	5.	*	1	1110	135	13.	*	1	1725	210	12.	*	1	2340	285	6.
1	0500	61	5.	*	1	1115	136	14.	*	1	1730	211	11.	*	1	2345	286	6.
1	0505	62	5.	*	1	1120	137	14.	*	1	1735	212	11.	*	1	2350	287	6.
1	0510	63	5.	*	1	1125	138	14.	*	1	1740	213	11.	*	1	2355	288	6.
1	0515	64	5.	*	1	1130	139	15.	*	1	1745	214	11.	*	2	0000	289	6.
1	0520	65	5.	*	1	1135	140	15.	*	1	1750	215	10.	*	2	0005	290	6.
1	0525	66	5.	*	1	1140	141	16.	*	1	1755	216	10.	*	2	0010	291	5.
1	0530	67	5.	*	1	1145	142	16.	*	1	1800	217	10.	*	2	0015	292	5.
1	0535	68	5.	*	1	1150	143	17.	*	1	1805	218	10.	*	2	0020	293	5.
1	0540	69	5.	*	1	1155	144	18.	*	1	1810	219	10.	*	2	0025	294	5.
1	0545	70	5.	*	1	1200	145	19.	*	1	1815	220	10.	*	2	0030	295	5.
1	0550	71	5.	*	1	1205	146	22.	*	1	1820	221	10.	*	2	0035	296	5.
1	0555	72	5.	*	1	1210	147	32.	*	1	1825	222	10.	*	2	0040	297	5.
1	0600	73	5.	*	1	1215	148	59.	*	1	1830	223	9.	*	2	0045	298	5.
1	0605	74	5.	*	1	1220	149	113.	*	1	1835	224	9.	*	2	0050	299	5.
1	0610	75	6.	*	1	1225	150	182.	*	1	1840	225	9.	*	2	0055	300	5.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
1151.	13.17	(CFS)	244.	66.	63.	63.
		(INCHES)	1.259	1.358	1.358	1.358
		(AC-FT)	121.	130.	130.	130.

CUMULATIVE AREA = 1.80 SQ MI

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          **************
          *            *
842 KK    *        P3  *
          *            *
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BASIN P3
THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
L= 3.7 Lca= 1.2 S= 129.0 Kn= .060 LAG= 61.0
PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN

847 KO OUTPUT CONTROL VARIABLES
IPRNT 2 PRINT CONTROL

IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

SUBBASIN RUNOFF DATA

848 BA SUBBASIN CHARACTERISTICS

TAREA	2.76	SUBBASIN AREA

849 LG GREEN AND AMPT LOSS RATE

STRTL	.19	STARTING LOSS
DTH	.35	MOISTURE DEFICIT
PSIF	4.08	WETTING FRONT SUCTION
XKSAT	.38	HYDRAULIC CONDUCTIVITY
RTIMP	7.00	PERCENT IMPERVIOUS AREA

848 UI INPUT UNITGRAPH, 36 ORDINATES, VOLUME = 1.00

153.0	153.0	220.0	529.0	656.0	776.0	869.0	973.0	1117.0	1277.0
1646.0	1961.0	1701.0	1442.0	1277.0	1141.0	985.0	869.0	755.0	640.0
468.0	300.0	265.0	251.0	199.0	153.0	153.0	76.0	47.0	47.0
47.0	47.0	47.0	47.0	47.0	47.0				

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HYDROGRAPH AT STATION P3
TRANSPOSITION AREA .0 SQ MI

TOTAL RAINFALL = 4.20, TOTAL LOSS = 2.81, TOTAL EXCESS = 1.39

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1909.	12.75	(CFS)	387.	103.	99.	99.
		(INCHES)	1.305	1.391	1.391	1.391
		(AC-FT)	192.	205.	205.	205.

CUMULATIVE AREA = 2.76 SQ MI

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

HYDROGRAPH AT STATION P3
TRANSPOSITION AREA 5.0 SQ MI

TOTAL RAINFALL = 4.12, TOTAL LOSS = 2.77, TOTAL EXCESS = 1.35

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1855.	12.75	(CFS)	377.	100.	97.	97.
		(INCHES)	1.269	1.353	1.354	1.354
		(AC-FT)	187.	199.	199.	199.

CUMULATIVE AREA = 2.76 SQ MI

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

HYDROGRAPH AT STATION P3
TRANSPOSITION AREA 10.0 SQ MI

TOTAL RAINFALL = 3.99, TOTAL LOSS = 2.70, TOTAL EXCESS = 1.29

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1768.	12.75	(CFS)	359.	96.	92.	92.
		(INCHES)	1.211	1.292	1.292	1.292
		(AC-FT)	178.	190.	190.	190.

CUMULATIVE AREA = 2.76 SQ MI

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

HYDROGRAPH AT STATION P3
TRANSPOSITION AREA 50.0 SQ MI

TOTAL RAINFALL = 3.70, TOTAL LOSS = 2.55, TOTAL EXCESS = 1.15

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1572.	12.75	(CFS)	320.	86.	83.	83.
		(INCHES)	1.078	1.154	1.154	1.154
		(AC-FT)	159.	170.	170.	170.

CUMULATIVE AREA = 2.76 SQ MI

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HYDROGRAPH AT STATION P3
TRANSPOSITION AREA 100.0 SQ MI

TOTAL RAINFALL = 3.57, TOTAL LOSS = 2.48, TOTAL EXCESS = 1.09

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1483.	12.75	(CFS)	302.	81.	78.	78.
		(INCHES)	1.019	1.091	1.092	1.092
		(AC-FT)	150.	161.	161.	161.

CUMULATIVE AREA = 2.76 SQ MI

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

HYDROGRAPH AT STATION P3
TRANSPOSITION AREA 500.0 SQ MI

TOTAL RAINFALL = 3.28, TOTAL LOSS = 2.33, TOTAL EXCESS = .95

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1282.	12.75	(CFS)	262.	71.	68.	68.
		(INCHES)	.883	.950	.951	.951

(AC-FT) 130. 140. 140. 140.

CUMULATIVE AREA = 2.76 SQ MI

INTERPOLATED HYDROGRAPH AT P3

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	8.	1		1230	151	1563.	1		1845	226	9.
1		0005	2	0.	1		0620	77	8.	1		1235	152	1727.	1		1850	227	9.
1		0010	3	0.	1		0625	78	8.	1		1240	153	1824.	1		1855	228	9.
1		0015	4	0.	1		0630	79	9.	1		1245	154	1860.	1		1900	229	9.
1		0020	5	0.	1		0635	80	9.	1		1250	155	1839.	1		1905	230	9.
1		0025	6	0.	1		0640	81	9.	1		1255	156	1713.	1		1910	231	9.
1		0030	7	1.	1		0645	82	9.	1		1300	157	1501.	1		1915	232	9.
1		0035	8	1.	1		0650	83	9.	1		1305	158	1317.	1		1920	233	9.
1		0040	9	1.	1		0655	84	9.	1		1310	159	1162.	1		1925	234	9.
1		0045	10	1.	1		0700	85	9.	1		1315	160	1004.	1		1930	235	8.
1		0050	11	2.	1		0705	86	9.	1		1320	161	840.	1		1935	236	8.
1		0055	12	2.	1		0710	87	9.	1		1325	162	698.	1		1940	237	8.
1		0100	13	3.	1		0715	88	9.	1		1330	163	575.	1		1945	238	8.
1		0105	14	3.	1		0720	89	9.	1		1335	164	464.	1		1950	239	8.
1		0110	15	3.	1		0725	90	9.	1		1340	165	366.	1		1955	240	8.
1		0115	16	4.	1		0730	91	9.	1		1345	166	302.	1		2000	241	8.
1		0120	17	4.	1		0735	92	10.	1		1350	167	256.	1		2005	242	8.
1		0125	18	4.	1		0740	93	10.	1		1355	168	212.	1		2010	243	8.
1		0130	19	5.	1		0745	94	10.	1		1400	169	170.	1		2015	244	8.
1		0135	20	5.	1		0750	95	10.	1		1405	170	138.	1		2020	245	8.
1		0140	21	5.	1		0755	96	10.	1		1410	171	115.	1		2025	246	8.
1		0145	22	5.	1		0800	97	10.	1		1415	172	92.	1		2030	247	8.
1		0150	23	5.	1		0805	98	10.	1		1420	173	85.	1		2035	248	8.
1		0155	24	5.	1		0810	99	11.	1		1425	174	84.	1		2040	249	8.
1		0200	25	5.	1		0815	100	11.	1		1430	175	82.	1		2045	250	8.
1		0205	26	5.	1		0820	101	11.	1		1435	176	72.	1		2050	251	7.
1		0210	27	5.	1		0825	102	11.	1		1440	177	62.	1		2055	252	7.
1		0215	28	6.	1		0830	103	11.	1		1445	178	52.	1		2100	253	7.
1		0220	29	6.	1		0835	104	11.	1		1450	179	42.	1		2105	254	7.
1		0225	30	6.	1		0840	105	12.	1		1455	180	32.	1		2110	255	7.
1		0230	31	6.	1		0845	106	12.	1		1500	181	22.	1		2115	256	7.
1		0235	32	6.	1		0850	107	12.	1		1505	182	21.	1		2120	257	7.
1		0240	33	6.	1		0855	108	12.	1		1510	183	20.	1		2125	258	7.
1		0245	34	6.	1		0900	109	12.	1		1515	184	20.	1		2130	259	7.
1		0250	35	6.	1		0905	110	13.	1		1520	185	19.	1		2135	260	7.
1		0255	36	6.	1		0910	111	13.	1		1525	186	19.	1		2140	261	7.
1		0300	37	6.	1		0915	112	13.	1		1530	187	18.	1		2145	262	7.
1		0305	38	6.	1		0920	113	13.	1		1535	188	18.	1		2150	263	7.
1		0310	39	6.	1		0925	114	13.	1		1540	189	17.	1		2155	264	7.
1		0315	40	6.	1		0930	115	14.	1		1545	190	17.	1		2200	265	7.
1		0320	41	6.	1		0935	116	14.	1		1550	191	17.	1		2205	266	7.
1		0325	42	6.	1		0940	117	14.	1		1555	192	16.	1		2210	267	7.
1		0330	43	7.	1		0945	118	14.	1		1600	193	16.	1		2215	268	7.
1		0335	44	7.	1		0950	119	15.	1		1605	194	15.	1		2220	269	7.
1		0340	45	7.	1		0955	120	15.	1		1610	195	15.	1		2225	270	7.
1		0345	46	7.	1		1000	121	15.	1		1615	196	15.	1		2230	271	7.
1		0350	47	7.	1		1005	122	16.	1		1620	197	14.	1		2235	272	7.

1	0355	48	7.	*	1	1010	123	16.	*	1	1625	198	14.	*	1	2240	273	6.
1	0400	49	7.	*	1	1015	124	16.	*	1	1630	199	14.	*	1	2245	274	6.
1	0405	50	7.	*	1	1020	125	17.	*	1	1635	200	13.	*	1	2250	275	6.
1	0410	51	7.	*	1	1025	126	17.	*	1	1640	201	13.	*	1	2255	276	6.
1	0415	52	7.	*	1	1030	127	18.	*	1	1645	202	13.	*	1	2300	277	6.
1	0420	53	7.	*	1	1035	128	18.	*	1	1650	203	13.	*	1	2305	278	6.
1	0425	54	7.	*	1	1040	129	19.	*	1	1655	204	13.	*	1	2310	279	6.
1	0430	55	7.	*	1	1045	130	19.	*	1	1700	205	12.	*	1	2315	280	6.
1	0435	56	7.	*	1	1050	131	20.	*	1	1705	206	12.	*	1	2320	281	6.
1	0440	57	7.	*	1	1055	132	21.	*	1	1710	207	12.	*	1	2325	282	6.
1	0445	58	7.	*	1	1100	133	22.	*	1	1715	208	12.	*	1	2330	283	6.
1	0450	59	7.	*	1	1105	134	22.	*	1	1720	209	12.	*	1	2335	284	6.
1	0455	60	7.	*	1	1110	135	23.	*	1	1725	210	12.	*	1	2340	285	6.
1	0500	61	7.	*	1	1115	136	24.	*	1	1730	211	12.	*	1	2345	286	6.
1	0505	62	8.	*	1	1120	137	26.	*	1	1735	212	11.	*	1	2350	287	6.
1	0510	63	8.	*	1	1125	138	27.	*	1	1740	213	11.	*	1	2355	288	6.
1	0515	64	8.	*	1	1130	139	29.	*	1	1745	214	11.	*	2	0000	289	6.
1	0520	65	8.	*	1	1135	140	59.	*	1	1750	215	11.	*	2	0005	290	6.
1	0525	66	8.	*	1	1140	141	90.	*	1	1755	216	11.	*	2	0010	291	6.
1	0530	67	8.	*	1	1145	142	134.	*	1	1800	217	11.	*	2	0015	292	6.
1	0535	68	8.	*	1	1150	143	236.	*	1	1805	218	11.	*	2	0020	293	5.
1	0540	69	8.	*	1	1155	144	364.	*	1	1810	219	11.	*	2	0025	294	5.
1	0545	70	8.	*	1	1200	145	516.	*	1	1815	220	10.	*	2	0030	295	5.
1	0550	71	8.	*	1	1205	146	657.	*	1	1820	221	10.	*	2	0035	296	5.
1	0555	72	8.	*	1	1210	147	818.	*	1	1825	222	10.	*	2	0040	297	4.
1	0600	73	8.	*	1	1215	148	995.	*	1	1830	223	10.	*	2	0045	298	4.
1	0605	74	8.	*	1	1220	149	1141.	*	1	1835	224	10.	*	2	0050	299	4.
1	0610	75	8.	*	1	1225	150	1333.	*	1	1840	225	10.	*	2	0055	300	3.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
1860.	12.75	(CFS)	378.	101.	97.	97.
		(INCHES)	1.273	1.357	1.357	1.357
		(AC-FT)	187.	200.	200.	200.

CUMULATIVE AREA = 2.76 SQ MI

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855 KK

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* *
* 2P *
* *
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Combining P1+P2 & P3

857 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

[redacted] HC HYDROGRAPH COMBINATION
ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 2P
TRANSPOSITION AREA .0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
2666.	12.92	(CFS)	637.	170.	164.	164.
		(INCHES)	1.299	1.391	1.391	1.391
		(AC-FT)	316.	338.	338.	338.

CUMULATIVE AREA = 4.56 SQ MI

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HYDROGRAPH AT STATION 2P
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
[redacted]2584.	12.92	(CFS)	619.	166.	160.	160.
		(INCHES)	1.262	1.352	1.353	1.353
		(AC-FT)	307.	329.	329.	329.

CUMULATIVE AREA = 4.56 SQ MI

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HYDROGRAPH AT STATION 2P
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
2452.	12.92	(CFS)	590.	158.	152.	152.
		(INCHES)	1.203	1.290	1.290	1.290
		(AC-FT)	293.	314.	314.	314.

CUMULATIVE AREA = 4.56 SQ MI

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

HYDROGRAPH AT STATION 2P
TRANSPOSITION AREA 50.0 SQ MI

[redacted]K FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
2162.	12.92	(CFS)	524.	141.	136.	136.
		(INCHES)	1.069	1.150	1.150	1.150
		(AC-FT)	260.	280.	280.	280.

CUMULATIVE AREA = 4.56 SQ MI

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HYDROGRAPH AT STATION 2P
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2035.	12.92	(CFS)	495.	133.	128.	128.
		(INCHES)	1.008	1.087	1.087	1.087
		(AC-FT)	245.	264.	264.	264.

CUMULATIVE AREA = 4.56 SQ MI

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HYDROGRAPH AT STATION 2P
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1753.	12.92	(CFS)	427.	116.	111.	111.
		(INCHES)	.871	.943	.943	.943
		(AC-FT)	212.	229.	229.	229.

CUMULATIVE AREA = 4.56 SQ MI

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INTERPOLATED HYDROGRAPH AT 2P

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	14.	1		1230	151	1807.	1		1845	226	18.
1		0005	2	0.	1		0620	77	14.	1		1235	152	2056.	1		1850	227	18.
1		0010	3	0.	1		0625	78	14.	1		1240	153	2262.	1		1855	228	18.
1		0015	4	0.	1		0630	79	14.	1		1245	154	2431.	1		1900	229	18.
1		0020	5	0.	1		0635	80	14.	1		1250	155	2556.	1		1905	230	17.
1		0025	6	0.	1		0640	81	15.	1		1255	156	2585.	1		1910	231	17.
1		0030	7	1.	1		0645	82	15.	1		1300	157	2510.	1		1915	232	17.
1		0035	8	1.	1		0650	83	15.	1		1305	158	2420.	1		1920	233	17.
1		0040	9	1.	1		0655	84	15.	1		1310	159	2304.	1		1925	234	17.
1		0045	10	1.	1		0700	85	15.	1		1315	160	2134.	1		1930	235	17.
1		0050	11	2.	1		0705	86	15.	1		1320	161	1921.	1		1935	236	16.
1		0055	12	2.	1		0710	87	15.	1		1325	162	1705.	1		1940	237	16.
1		0100	13	3.	1		0715	88	15.	1		1330	163	1493.	1		1945	238	16.
1		0105	14	3.	1		0720	89	15.	1		1335	164	1288.	1		1950	239	16.
1		0110	15	3.	1		0725	90	16.	1		1340	165	1101.	1		1955	240	16.
1		0115	16	4.	1		0730	91	16.	1		1345	166	950.	1		2000	241	16.
1		0120	17	4.	1		0735	92	16.	1		1350	167	820.	1		2005	242	16.
1		0125	18	4.	1		0740	93	16.	1		1355	168	695.	1		2010	243	16.
1		0130	19	5.	1		0745	94	16.	1		1400	169	583.	1		2015	244	16.
1		0135	20	5.	1		0750	95	16.	1		1405	170	490.	1		2020	245	16.

1	0140	21	5.	*	1	0755	96	17.	*	1	1410	171	414.	*	1	2025	246	15.
1	0145	22	5.	*	1	0800	97	17.	*	1	1415	172	343.	*	1	2030	247	15.
1	0150	23	5.	*	1	0805	98	17.	*	1	1420	173	289.	*	1	2035	248	15.
1	0155	24	6.	*	1	0810	99	17.	*	1	1425	174	245.	*	1	2040	249	15.
1	0200	25	6.	*	1	0815	100	17.	*	1	1430	175	212.	*	1	2045	250	15.
1	0205	26	6.	*	1	0820	101	18.	*	1	1435	176	183.	*	1	2050	251	15.
1	0210	27	6.	*	1	0825	102	18.	*	1	1440	177	160.	*	1	2055	252	15.
1	0215	28	6.	*	1	0830	103	18.	*	1	1445	178	139.	*	1	2100	253	15.
1	0220	29	6.	*	1	0835	104	18.	*	1	1450	179	121.	*	1	2105	254	14.
1	0225	30	6.	*	1	0840	105	19.	*	1	1455	180	104.	*	1	2110	255	14.
1	0230	31	7.	*	1	0845	106	19.	*	1	1500	181	87.	*	1	2115	256	14.
1	0235	32	7.	*	1	0850	107	19.	*	1	1505	182	80.	*	1	2120	257	14.
1	0240	33	7.	*	1	0855	108	20.	*	1	1510	183	75.	*	1	2125	258	14.
1	0245	34	7.	*	1	0900	109	20.	*	1	1515	184	71.	*	1	2130	259	14.
1	0250	35	8.	*	1	0905	110	21.	*	1	1520	185	68.	*	1	2135	260	14.
1	0255	36	8.	*	1	0910	111	21.	*	1	1525	186	65.	*	1	2140	261	14.
1	0300	37	8.	*	1	0915	112	22.	*	1	1530	187	61.	*	1	2145	262	14.
1	0305	38	9.	*	1	0920	113	22.	*	1	1535	188	58.	*	1	2150	263	14.
1	0310	39	9.	*	1	0925	114	22.	*	1	1540	189	54.	*	1	2155	264	13.
1	0315	40	9.	*	1	0930	115	23.	*	1	1545	190	50.	*	1	2200	265	13.
1	0320	41	9.	*	1	0935	116	23.	*	1	1550	191	47.	*	1	2205	266	13.
1	0325	42	9.	*	1	0940	117	24.	*	1	1555	192	44.	*	1	2210	267	13.
1	0330	43	10.	*	1	0945	118	24.	*	1	1600	193	41.	*	1	2215	268	13.
1	0335	44	10.	*	1	0950	119	25.	*	1	1605	194	40.	*	1	2220	269	13.
1	0340	45	10.	*	1	0955	120	25.	*	1	1610	195	38.	*	1	2225	270	13.
1	0345	46	10.	*	1	1000	121	26.	*	1	1615	196	36.	*	1	2230	271	13.
1	0350	47	10.	*	1	1005	122	26.	*	1	1620	197	34.	*	1	2235	272	13.
1	0355	48	11.	*	1	1010	123	27.	*	1	1625	198	33.	*	1	2240	273	13.
1	0400	49	11.	*	1	1015	124	27.	*	1	1630	199	31.	*	1	2245	274	13.
1	0405	50	11.	*	1	1020	125	28.	*	1	1635	200	30.	*	1	2250	275	12.
1	0410	51	11.	*	1	1025	126	28.	*	1	1640	201	29.	*	1	2255	276	12.
1	0415	52	11.	*	1	1030	127	29.	*	1	1645	202	28.	*	1	2300	277	12.
1	0420	53	11.	*	1	1035	128	30.	*	1	1650	203	27.	*	1	2305	278	12.
1	0425	54	11.	*	1	1040	129	30.	*	1	1655	204	26.	*	1	2310	279	12.
1	0430	55	11.	*	1	1045	130	31.	*	1	1700	205	26.	*	1	2315	280	12.
1	0435	56	12.	*	1	1050	131	32.	*	1	1705	206	25.	*	1	2320	281	12.
1	0440	57	12.	*	1	1055	132	33.	*	1	1710	207	24.	*	1	2325	282	12.
1	0445	58	12.	*	1	1100	133	34.	*	1	1715	208	24.	*	1	2330	283	12.
1	0450	59	12.	*	1	1105	134	35.	*	1	1720	209	24.	*	1	2335	284	11.
1	0455	60	12.	*	1	1110	135	37.	*	1	1725	210	23.	*	1	2340	285	11.
1	0500	61	12.	*	1	1115	136	38.	*	1	1730	211	23.	*	1	2345	286	11.
1	0505	62	12.	*	1	1120	137	40.	*	1	1735	212	22.	*	1	2350	287	11.
1	0510	63	13.	*	1	1125	138	41.	*	1	1740	213	22.	*	1	2355	288	11.
1	0515	64	13.	*	1	1130	139	43.	*	1	1745	214	22.	*	2	0000	289	11.
1	0520	65	13.	*	1	1135	140	74.	*	1	1750	215	22.	*	2	0005	290	11.
1	0525	66	13.	*	1	1140	141	105.	*	1	1755	216	21.	*	2	0010	291	11.
1	0530	67	13.	*	1	1145	142	150.	*	1	1800	217	21.	*	2	0015	292	11.
1	0535	68	13.	*	1	1150	143	252.	*	1	1805	218	21.	*	2	0020	293	11.
1	0540	69	13.	*	1	1155	144	381.	*	1	1810	219	20.	*	2	0025	294	11.
1	0545	70	13.	*	1	1200	145	534.	*	1	1815	220	20.	*	2	0030	295	10.
1	0550	71	13.	*	1	1205	146	677.	*	1	1820	221	20.	*	2	0035	296	10.
1	0555	72	13.	*	1	1210	147	848.	*	1	1825	222	20.	*	2	0040	297	10.
1	0600	73	13.	*	1	1215	148	1051.	*	1	1830	223	19.	*	2	0045	298	9.
1	0605	74	13.	*	1	1220	149	1250.	*	1	1835	224	19.	*	2	0050	299	9.
1	0610	75	14.	*	1	1225	150	1512.	*	1	1840	225	19.	*	2	0055	300	8.
				*					*					*				

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

2585.	12.92	(CFS)	619.	166.	160.	160.
		(INCHES)	1.263	1.353	1.353	1.353
		(AC-FT)	307.	329.	329.	329.

CUMULATIVE AREA = 4.56 SQ MI

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          *            *
859 KK    *       Q1   *
          *            *
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BASIN Q1
THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
L= 2.2 Lca= 1.0 S= 471.0 Kn= .050 LAG= 31.0
PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN

864 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

SUBBASIN RUNOFF DATA

865 BA SUBBASIN CHARACTERISTICS

TAREA	1.09	SUBBASIN AREA

866 LG GREEN AND AMPT LOSS RATE

STRTL	.28	STARTING LOSS
DTH	.35	MOISTURE DEFICIT
PSIF	4.24	WETTING FRONT SUCTION
XKSAT	.41	HYDRAULIC CONDUCTIVITY
RTIMP	12.00	PERCENT IMPERVIOUS AREA

865 UI INPUT UNITGRAPH, 28 ORDINATES, VOLUME = 1.00

118.0	254.0	577.0	817.0	1056.0	1224.0	767.0	647.0	551.0	461.0
362.0	293.0	259.0	202.0	152.0	132.0	107.0	91.0	67.0	58.0
58.0	30.0	23.0	23.0	23.0	23.0	23.0	23.0		

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HYDROGRAPH AT STATION Q1
TRANSPOSITION AREA .0 SQ MI

TOTAL RAINFALL = 4.20, TOTAL LOSS = 2.71, TOTAL EXCESS = 1.49

PEAK FLOW TIME MAXIMUM AVERAGE FLOW

(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
1015.	12.25	(CFS)	157.	44.	42.	42.
		(INCHES)	1.341	1.488	1.489	1.489
		(AC-FT)	78.	86.	87.	87.

CUMULATIVE AREA = 1.09 SQ MI

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

HYDROGRAPH AT STATION Q1
TRANSPOSITION AREA 5.0 SQ MI

TOTAL RAINFALL = 4.12, TOTAL LOSS = 2.67, TOTAL EXCESS = 1.45

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
985.	12.25	(CFS)	153.	42.	41.	41.
		(INCHES)	1.303	1.447	1.448	1.448
		(AC-FT)	76.	84.	84.	84.

CUMULATIVE AREA = 1.09 SQ MI

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

HYDROGRAPH AT STATION Q1
TRANSPOSITION AREA 10.0 SQ MI

TOTAL RAINFALL = 3.99, TOTAL LOSS = 2.60, TOTAL EXCESS = 1.39

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
937.	12.25	(CFS)	146.	40.	39.	39.
		(INCHES)	1.242	1.381	1.382	1.382
		(AC-FT)	72.	80.	80.	80.

CUMULATIVE AREA = 1.09 SQ MI

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HYDROGRAPH AT STATION Q1
TRANSPOSITION AREA 50.0 SQ MI

TOTAL RAINFALL = 3.70, TOTAL LOSS = 2.46, TOTAL EXCESS = 1.24

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
830.	12.25	(CFS)	129.	36.	35.	35.
		(INCHES)	1.103	1.232	1.233	1.233
		(AC-FT)	64.	72.	72.	72.

CUMULATIVE AREA = 1.09 SQ MI

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HYDROGRAPH AT STATION Q1
TRANSPOSITION AREA 100.0 SQ MI

TOTAL RAINFALL = 3.57, TOTAL LOSS = 2.40, TOTAL EXCESS = 1.17

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
781.	12.25	(CFS)	122.	34.	33.	33.
		(INCHES)	1.040	1.164	1.165	1.165
		(AC-FT)	60.	68.	68.	68.

CUMULATIVE AREA = 1.09 SQ MI

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HYDROGRAPH AT STATION Q1
TRANSPOSITION AREA 500.0 SQ MI

TOTAL RAINFALL = 3.28, TOTAL LOSS = 2.26, TOTAL EXCESS = 1.02

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
670.	12.25	(CFS)	105.	30.	29.	29.
		(INCHES)	.897	1.012	1.013	1.013
		(AC-FT)	52.	59.	59.	59.

CUMULATIVE AREA = 1.09 SQ MI

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INTERPOLATED HYDROGRAPH AT Q1

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	6.	1		1230	151	626.	1		1845	226	6.
1		0005	2	0.	1		0620	77	6.	1		1235	152	531.	1		1850	227	6.
1		0010	3	0.	1		0625	78	6.	1		1240	153	447.	1		1855	228	6.
1		0015	4	0.	1		0630	79	6.	1		1245	154	371.	1		1900	229	6.
1		0020	5	1.	1		0635	80	6.	1		1250	155	307.	1		1905	230	6.
1		0025	6	1.	1		0640	81	6.	1		1255	156	256.	1		1910	231	6.
1		0030	7	2.	1		0645	82	6.	1		1300	157	215.	1		1915	232	6.
1		0035	8	2.	1		0650	83	6.	1		1305	158	177.	1		1920	233	6.
1		0040	9	2.	1		0655	84	6.	1		1310	159	148.	1		1925	234	6.
1		0045	10	3.	1		0700	85	6.	1		1315	160	128.	1		1930	235	6.
1		0050	11	3.	1		0705	86	6.	1		1320	161	107.	1		1935	236	6.
1		0055	12	3.	1		0710	87	6.	1		1325	162	89.	1		1940	237	6.
1		0100	13	3.	1		0715	88	6.	1		1330	163	75.	1		1945	238	6.
1		0105	14	3.	1		0720	89	7.	1		1335	164	65.	1		1950	239	5.
1		0110	15	4.	1		0725	90	7.	1		1340	165	57.	1		1955	240	5.
1		0115	16	4.	1		0730	91	7.	1		1345	166	49.	1		2000	241	5.
1		0120	17	4.	1		0735	92	7.	1		1350	167	47.	1		2005	242	5.
1		0125	18	4.	1		0740	93	7.	1		1355	168	42.	1		2010	243	5.
1		0130	19	4.	1		0745	94	7.	1		1400	169	36.	1		2015	244	5.
1		0135	20	4.	1		0750	95	7.	1		1405	170	31.	1		2020	245	5.
1		0140	21	4.	1		0755	96	7.	1		1410	171	26.	1		2025	246	5.
1		0145	22	4.	1		0800	97	7.	1		1415	172	21.	1		2030	247	5.
1		0150	23	4.	1		0805	98	8.	1		1420	173	16.	1		2035	248	5.
1		0155	24	4.	1		0810	99	8.	1		1425	174	15.	1		2040	249	5.

1	0200	25	4.	*	1	0815	100	8.	*	1	1430	175	15.	*	1	2045	250	5.
1	0205	26	4.	*	1	0820	101	8.	*	1	1435	176	14.	*	1	2050	251	5.
1	0210	27	4.	*	1	0825	102	8.	*	1	1440	177	14.	*	1	2055	252	5.
1	0215	28	4.	*	1	0830	103	8.	*	1	1445	178	14.	*	1	2100	253	5.
1	0220	29	4.	*	1	0835	104	8.	*	1	1450	179	13.	*	1	2105	254	5.
1	0225	30	4.	*	1	0840	105	9.	*	1	1455	180	13.	*	1	2110	255	4.
1	0230	31	4.	*	1	0845	106	9.	*	1	1500	181	12.	*	1	2115	256	4.
1	0235	32	4.	*	1	0850	107	9.	*	1	1505	182	12.	*	1	2120	257	5.
1	0240	33	4.	*	1	0855	108	9.	*	1	1510	183	12.	*	1	2125	258	5.
1	0245	34	4.	*	1	0900	109	9.	*	1	1515	184	12.	*	1	2130	259	5.
1	0250	35	4.	*	1	0905	110	9.	*	1	1520	185	11.	*	1	2135	260	5.
1	0255	36	4.	*	1	0910	111	9.	*	1	1525	186	11.	*	1	2140	261	5.
1	0300	37	4.	*	1	0915	112	10.	*	1	1530	187	11.	*	1	2145	262	5.
1	0305	38	5.	*	1	0920	113	10.	*	1	1535	188	11.	*	1	2150	263	5.
1	0310	39	5.	*	1	0925	114	10.	*	1	1540	189	10.	*	1	2155	264	5.
1	0315	40	5.	*	1	0930	115	10.	*	1	1545	190	10.	*	1	2200	265	4.
1	0320	41	5.	*	1	0935	116	10.	*	1	1550	191	10.	*	1	2205	266	4.
1	0325	42	5.	*	1	0940	117	11.	*	1	1555	192	10.	*	1	2210	267	4.
1	0330	43	4.	*	1	0945	118	11.	*	1	1600	193	9.	*	1	2215	268	4.
1	0335	44	4.	*	1	0950	119	11.	*	1	1605	194	9.	*	1	2220	269	4.
1	0340	45	4.	*	1	0955	120	11.	*	1	1610	195	9.	*	1	2225	270	4.
1	0345	46	4.	*	1	1000	121	12.	*	1	1615	196	9.	*	1	2230	271	4.
1	0350	47	4.	*	1	1005	122	12.	*	1	1620	197	9.	*	1	2235	272	4.
1	0355	48	5.	*	1	1010	123	12.	*	1	1625	198	8.	*	1	2240	273	4.
1	0400	49	5.	*	1	1015	124	12.	*	1	1630	199	8.	*	1	2245	274	4.
1	0405	50	5.	*	1	1020	125	13.	*	1	1635	200	8.	*	1	2250	275	4.
1	0410	51	5.	*	1	1025	126	13.	*	1	1640	201	8.	*	1	2255	276	4.
1	0415	52	5.	*	1	1030	127	14.	*	1	1645	202	8.	*	1	2300	277	4.
1	0420	53	5.	*	1	1035	128	14.	*	1	1650	203	8.	*	1	2305	278	4.
1	0425	54	5.	*	1	1040	129	15.	*	1	1655	204	8.	*	1	2310	279	4.
1	0430	55	5.	*	1	1045	130	16.	*	1	1700	205	8.	*	1	2315	280	4.
1	0435	56	5.	*	1	1050	131	16.	*	1	1705	206	8.	*	1	2320	281	4.
1	0440	57	5.	*	1	1055	132	17.	*	1	1710	207	8.	*	1	2325	282	4.
1	0445	58	5.	*	1	1100	133	18.	*	1	1715	208	8.	*	1	2330	283	4.
1	0450	59	5.	*	1	1105	134	19.	*	1	1720	209	8.	*	1	2335	284	4.
1	0455	60	5.	*	1	1110	135	20.	*	1	1725	210	7.	*	1	2340	285	4.
1	0500	61	5.	*	1	1115	136	21.	*	1	1730	211	7.	*	1	2345	286	4.
1	0505	62	5.	*	1	1120	137	23.	*	1	1735	212	7.	*	1	2350	287	4.
1	0510	63	5.	*	1	1125	138	24.	*	1	1740	213	7.	*	1	2355	288	4.
1	0515	64	5.	*	1	1130	139	26.	*	1	1745	214	7.	*	2	0000	289	4.
1	0520	65	5.	*	1	1135	140	49.	*	1	1750	215	7.	*	2	0005	290	4.
1	0525	66	5.	*	1	1140	141	96.	*	1	1755	216	7.	*	2	0010	291	4.
1	0530	67	5.	*	1	1145	142	203.	*	1	1800	217	7.	*	2	0015	292	3.
1	0535	68	5.	*	1	1150	143	354.	*	1	1805	218	7.	*	2	0020	293	3.
1	0540	69	5.	*	1	1155	144	552.	*	1	1810	219	7.	*	2	0025	294	2.
1	0545	70	5.	*	1	1200	145	782.	*	1	1815	220	6.	*	2	0030	295	2.
1	0550	71	6.	*	1	1205	146	911.	*	1	1820	221	6.	*	2	0035	296	2.
1	0555	72	6.	*	1	1210	147	992.	*	1	1825	222	6.	*	2	0040	297	1.
1	0600	73	6.	*	1	1215	148	992.	*	1	1830	223	6.	*	2	0045	298	1.
1	0605	74	6.	*	1	1220	149	930.	*	1	1835	224	6.	*	2	0050	299	1.
1	0610	75	6.	*	1	1225	150	801.	*	1	1840	225	6.	*	2	0055	300	1.
				*					*					*				

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AK FLOW	TIME		MAXIMUM AVERAGE FLOW			
CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
992.	12.25	(CFS)	154.	43.	41.	41.
		(INCHES)	1.313	1.457	1.458	1.458
		(AC-FT)	76.	85.	85.	85.

CUMULATIVE AREA = 1.09 SQ MI

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          **************
          *            *
871 KK    *     Q1-1Q  *       Routing through Q2
          *            *
          **************
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872 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

HYDROGRAPH ROUTING DATA

873 RS STORAGE ROUTING

NSTPS	6	NUMBER OF SUBREACHES
ITYP	FLOW	TYPE OF INITIAL CONDITION
RSVRIC	.00	INITIAL CONDITION
X	.00	WORKING R AND D COEFFICIENT

874 RC NORMAL DEPTH CHANNEL

ANL	.060	LEFT OVERBANK N-VALUE
ANCH	.058	MAIN CHANNEL N-VALUE
ANR	.060	RIGHT OVERBANK N-VALUE
RLNTH	14377.	REACH LENGTH
SEL	.0242	ENERGY SLOPE
ELMAX	.0	MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

CROSS-SECTION DATA

		--- LEFT OVERBANK ---		+ ------ MAIN CHANNEL -------			+ --- RIGHT OVERBANK ---		
876 RY	ELEVATION	17.00	15.00	13.00	10.00	10.00	14.00	21.00	27.00
875 RX	DISTANCE	.00	80.00	170.00	179.00	186.00	216.00	306.00	386.00

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COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	3.45	9.68	18.69	32.79	60.27	102.76	159.46	229.95	307.43
OUTFLOW	.00	30.76	126.45	307.16	615.75	1213.87	2246.99	3791.28	5983.73	9076.48
ELEVATION	10.00	10.89	11.79	12.68	13.58	14.47	15.37	16.26	17.16	18.05
STORAGE	388.30	472.57	560.23	651.33	745.94	844.08	945.74	1050.92	1159.62	1271.85
OUTFLOW	12798.64	17133.75	22073.42	27608.43	33743.92	40485.06	47835.83	55801.29	64387.32	73600.38
ELEVATION	18.95	19.84	20.74	21.63	22.53	23.42	24.32	25.21	26.11	27.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 12799. TO 73600.

ok
992 cfs

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 Q1-1Q
TRANSPOSITION AREA .0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
813.	12.75	(CFS)	157.	43.	42.	42.
		(INCHES)	1.340	1.483	1.483	1.483
		(AC-FT)	78.	86.	86.	86.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
7.	12.75	2.	0.	0.	0.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
13.87	12.75	11.38	10.47	10.45	10.45

CUMULATIVE AREA = 1.09 SQ MI

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HYDROGRAPH AT STATION Q1-1Q
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
789.	12.75	(CFS)	153.	42.	41.	41.
		(INCHES)	1.302	1.443	1.443	1.443
		(AC-FT)	76.	84.	84.	84.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
7.	12.75	2.	0.	0.	0.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
13.84	12.75	11.37	10.46	10.44	10.44

CUMULATIVE AREA = 1.09 SQ MI

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HYDROGRAPH AT STATION Q1-1Q
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
750.	12.75	(CFS)	145.	40.	39.	39.
		(INCHES)	1.240	1.377	1.377	1.377
		(AC-FT)	72.	80.	80.	80.

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

6.	12.75	2.	0.	0.	0.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
13.78	12.75	11.34	10.45	10.43	10.43

CUMULATIVE AREA = 1.09 SQ MI

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HYDROGRAPH AT STATION Q1-1Q
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
661.	12.75	(CFS)	129.	36.	35.	35.
		(INCHES)	1.102	1.228	1.228	1.228
		(AC-FT)	64.	71.	71.	71.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
6.	12.75	1.	0.	0.	0.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
13.65	12.75	11.27	10.43	10.41	10.41

CUMULATIVE AREA = 1.09 SQ MI

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HYDROGRAPH AT STATION Q1-1Q
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
621.	12.75	(CFS)	122.	34.	33.	33.
		(INCHES)	1.039	1.161	1.161	1.161
		(AC-FT)	60.	67.	67.	67.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
6.	12.75	1.	0.	0.	0.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
13.59	12.75	11.24	10.41	10.40	10.40

CUMULATIVE AREA = 1.09 SQ MI

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HYDROGRAPH AT STATION Q1-1Q
TRANSPOSITION AREA 500.0 SQ MI

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

529.	12.75	(CFS)	105.	30.	28.	28.
		(INCHES)	.896	1.008	1.008	1.008
		(AC-FT)	52.	59.	59.	59.

STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
5.	12.75	1.	0.	0.	0.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
13.33	12.75	11.15	10.38	10.37	10.37

CUMULATIVE AREA = 1.09 SQ MI

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INTERPOLATED HYDROGRAPH AT Q1-1Q

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	5.	1		1230	151	583.	1		1845	226	7.
1		0005	2	0.	1		0620	77	5.	1		1235	152	693.	1		1850	227	7.
1		0010	3	0.	1		0625	78	5.	1		1240	153	765.	1		1855	228	7.
1		0015	4	0.	1		0630	79	5.	1		1245	154	795.	1		1900	229	7.
1		0020	5	0.	1		0635	80	5.	1		1250	155	785.	1		1905	230	7.
1		0025	6	0.	1		0640	81	5.	1		1255	156	742.	1		1910	231	7.
1		0030	7	0.	1		0645	82	5.	1		1300	157	678.	1		1915	232	7.
1		0035	8	0.	1		0650	83	5.	1		1305	158	603.	1		1920	233	7.
1		0040	9	0.	1		0655	84	5.	1		1310	159	526.	1		1925	234	7.
1		0045	10	0.	1		0700	85	6.	1		1315	160	453.	1		1930	235	7.
1		0050	11	0.	1		0705	86	6.	1		1320	161	387.	1		1935	236	6.
1		0055	12	0.	1		0710	87	6.	1		1325	162	330.	1		1940	237	6.
1		0100	13	0.	1		0715	88	6.	1		1330	163	284.	1		1945	238	6.
1		0105	14	0.	1		0720	89	6.	1		1335	164	245.	1		1950	239	6.
1		0110	15	0.	1		0725	90	6.	1		1340	165	210.	1		1955	240	6.
1		0115	16	0.	1		0730	91	6.	1		1345	166	180.	1		2000	241	6.
1		0120	17	1.	1		0735	92	6.	1		1350	167	155.	1		2005	242	6.
1		0125	18	1.	1		0740	93	6.	1		1355	168	136.	1		2010	243	6.
1		0130	19	1.	1		0745	94	6.	1		1400	169	122.	1		2015	244	6.
1		0135	20	1.	1		0750	95	6.	1		1405	170	111.	1		2020	245	6.
1		0140	21	1.	1		0755	96	6.	1		1410	171	100.	1		2025	246	6.
1		0145	22	1.	1		0800	97	6.	1		1415	172	89.	1		2030	247	6.
1		0150	23	2.	1		0805	98	6.	1		1420	173	80.	1		2035	248	6.
1		0155	24	2.	1		0810	99	6.	1		1425	174	71.	1		2040	249	6.
1		0200	25	2.	1		0815	100	6.	1		1430	175	63.	1		2045	250	6.
1		0205	26	2.	1		0820	101	6.	1		1435	176	55.	1		2050	251	6.
1		0210	27	2.	1		0825	102	6.	1		1440	177	49.	1		2055	252	6.
1		0215	28	3.	1		0830	103	7.	1		1445	178	44.	1		2100	253	5.
1		0220	29	3.	1		0835	104	7.	1		1450	179	39.	1		2105	254	5.
1		0225	30	3.	1		0840	105	7.	1		1455	180	35.	1		2110	255	5.
1		0230	31	3.	1		0845	106	7.	1		1500	181	33.	1		2115	256	5.
1		0235	32	3.	1		0850	107	7.	1		1505	182	31.	1		2120	257	5.
1		0240	33	3.	1		0855	108	7.	1		1510	183	30.	1		2125	258	5.
1		0245	34	3.	1		0900	109	7.	1		1515	184	28.	1		2130	259	5.
1		0250	35	3.	1		0905	110	7.	1		1520	185	27.	1		2135	260	5.
1		0255	36	3.	1		0910	111	7.	1		1525	186	26.	1		2140	261	5.
1		0300	37	4.	1		0915	112	7.	1		1530	187	24.	1		2145	262	5.

1	0305	38	4.	*	1	0920	113	8.	*	1	1535	188	23.	*	1	2150	263	5.
1	0310	39	4.	*	1	0925	114	8.	*	1	1540	189	22.	*	1	2155	264	5.
1	0315	40	4.	*	1	0930	115	8.	*	1	1545	190	21.	*	1	2200	265	5.
1	0320	41	4.	*	1	0935	116	8.	*	1	1550	191	19.	*	1	2205	266	5.
1	0325	42	4.	*	1	0940	117	8.	*	1	1555	192	18.	*	1	2210	267	5.
1	0330	43	4.	*	1	0945	118	8.	*	1	1600	193	17.	*	1	2215	268	5.
1	0335	44	4.	*	1	0950	119	8.	*	1	1605	194	17.	*	1	2220	269	5.
1	0340	45	4.	*	1	0955	120	8.	*	1	1610	195	16.	*	1	2225	270	5.
1	0345	46	4.	*	1	1000	121	9.	*	1	1615	196	15.	*	1	2230	271	5.
1	0350	47	4.	*	1	1005	122	9.	*	1	1620	197	14.	*	1	2235	272	5.
1	0355	48	4.	*	1	1010	123	9.	*	1	1625	198	14.	*	1	2240	273	5.
1	0400	49	4.	*	1	1015	124	9.	*	1	1630	199	13.	*	1	2245	274	5.
1	0405	50	4.	*	1	1020	125	9.	*	1	1635	200	13.	*	1	2250	275	5.
1	0410	51	4.	*	1	1025	126	9.	*	1	1640	201	12.	*	1	2255	276	5.
1	0415	52	4.	*	1	1030	127	10.	*	1	1645	202	12.	*	1	2300	277	5.
1	0420	53	4.	*	1	1035	128	10.	*	1	1650	203	12.	*	1	2305	278	5.
1	0425	54	4.	*	1	1040	129	10.	*	1	1655	204	11.	*	1	2310	279	5.
1	0430	55	4.	*	1	1045	130	10.	*	1	1700	205	11.	*	1	2315	280	4.
1	0435	56	4.	*	1	1050	131	10.	*	1	1705	206	11.	*	1	2320	281	4.
1	0440	57	4.	*	1	1055	132	11.	*	1	1710	207	10.	*	1	2325	282	4.
1	0445	58	4.	*	1	1100	133	11.	*	1	1715	208	10.	*	1	2330	283	4.
1	0450	59	4.	*	1	1105	134	11.	*	1	1720	209	10.	*	1	2335	284	4.
1	0455	60	5.	*	1	1110	135	11.	*	1	1725	210	10.	*	1	2340	285	4.
1	0500	61	5.	*	1	1115	136	12.	*	1	1730	211	9.	*	1	2345	286	4.
1	0505	62	5.	*	1	1120	137	12.	*	1	1735	212	9.	*	1	2350	287	4.
1	0510	63	5.	*	1	1125	138	12.	*	1	1740	213	9.	*	1	2355	288	4.
1	0515	64	5.	*	1	1130	139	13.	*	1	1745	214	9.	*	2	0000	289	4.
1	0520	65	5.	*	1	1135	140	13.	*	1	1750	215	9.	*	2	0005	290	4.
1	0525	66	5.	*	1	1140	141	14.	*	1	1755	216	9.	*	2	0010	291	4.
1	0530	67	5.	*	1	1145	142	14.	*	1	1800	217	8.	*	2	0015	292	4.
1	0535	68	5.	*	1	1150	143	15.	*	1	1805	218	8.	*	2	0020	293	4.
1	0540	69	5.	*	1	1155	144	16.	*	1	1810	219	8.	*	2	0025	294	4.
1	0545	70	5.	*	1	1200	145	20.	*	1	1815	220	8.	*	2	0030	295	4.
1	0550	71	5.	*	1	1205	146	34.	*	1	1820	221	8.	*	2	0035	296	4.
1	0555	72	5.	*	1	1210	147	80.	*	1	1825	222	8.	*	2	0040	297	4.
1	0600	73	5.	*	1	1215	148	164.	*	1	1830	223	8.	*	2	0045	298	4.
1	0605	74	5.	*	1	1220	149	296.	*	1	1835	224	8.	*	2	0050	299	4.
1	0610	75	5.	*	1	1225	150	446.	*	1	1840	225	8.	*	2	0055	300	4.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
795.	12.75	(CFS)	154.	43.	41.	41.
		(INCHES)	1.311	1.453	1.453	1.453
		(AC-FT)	76.	84.	84.	84.

CUMULATIVE AREA = 1.09 SQ MI

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          **************
          *            *
877 KK    *        Q2  *
          *            *
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BASIN Q2
THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
L= 2.7 Lca= 1.4 S= 128.0 Kn= .060 LAG= 58.0
PHOENIX VALLEY S-GRAPH WAS USED FOR THIS BASIN

882 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

SUBBASIN RUNOFF DATA

883 BA SUBBASIN CHARACTERISTICS

TAREA	1.29	SUBBASIN AREA

884 LG GREEN AND AMPT LOSS RATE

STRTL	.19	STARTING LOSS
DTH	.35	MOISTURE DEFICIT
PSIF	3.98	WETTING FRONT SUCTION
XKSAT	.35	HYDRAULIC CONDUCTIVITY
RTIMP	11.00	PERCENT IMPERVIOUS AREA

883 UI INPUT UNITGRAPH, 34 ORDINATES, VOLUME = 1.00

75.0	75.0	132.0	268.0	341.0	395.0	443.0	504.0	577.0	704.0
918.0	912.0	749.0	650.0	579.0	500.0	436.0	376.0	317.0	231.0
144.0	129.0	123.0	88.0	75.0	72.0	23.0	23.0	23.0	23.0
23.0	23.0	23.0	23.0						

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HYDROGRAPH AT STATION Q2
TRANSPOSITION AREA .0 SQ MI

TOTAL RAINFALL = 4.20, TOTAL LOSS = 2.66, TOTAL EXCESS = 1.54

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
970.	12.75	(CFS)	195.	54.	52.	52.
		(INCHES)	1.408	1.543	1.544	1.544
		(AC-FT)	97.	106.	106.	106.

CUMULATIVE AREA = 1.29 SQ MI

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HYDROGRAPH AT STATION Q2
TRANSPOSITION AREA 5.0 SQ MI

TOTAL RAINFALL = 4.12, TOTAL LOSS = 2.62, TOTAL EXCESS = 1.50

PEAK FLOW TIME MAXIMUM AVERAGE FLOW

(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
945.	12.75	(CFS)	190.	52.	50.	50.
		(INCHES)	1.372	1.504	1.504	1.504
		(AC-FT)	94.	103.	104.	104.

CUMULATIVE AREA = 1.29 SQ MI

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HYDROGRAPH AT STATION Q2
TRANSPOSITION AREA 10.0 SQ MI

TOTAL RAINFALL = 3.99, TOTAL LOSS = 2.55, TOTAL EXCESS = 1.44

PEAK FLOW	TIME			MAXIMUM AVERAGE FLOW		
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
903.	12.75	(CFS)	182.	50.	48.	48.
		(INCHES)	1.312	1.440	1.440	1.440
		(AC-FT)	90.	99.	99.	99.

CUMULATIVE AREA = 1.29 SQ MI

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HYDROGRAPH AT STATION Q2
TRANSPOSITION AREA 50.0 SQ MI

TOTAL RAINFALL = 3.70, TOTAL LOSS = 2.40, TOTAL EXCESS = 1.30

PEAK FLOW	TIME			MAXIMUM AVERAGE FLOW		
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
808.	12.75	(CFS)	163.	45.	43.	43.
		(INCHES)	1.178	1.296	1.297	1.297
		(AC-FT)	81.	89.	89.	89.

CUMULATIVE AREA = 1.29 SQ MI

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

HYDROGRAPH AT STATION Q2
TRANSPOSITION AREA 100.0 SQ MI

TOTAL RAINFALL = 3.57, TOTAL LOSS = 2.34, TOTAL EXCESS = 1.23

PEAK FLOW	TIME			MAXIMUM AVERAGE FLOW		
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
766.	12.75	(CFS)	155.	43.	41.	41.
		(INCHES)	1.117	1.231	1.232	1.232
		(AC-FT)	77.	85.	85.	85.

CUMULATIVE AREA = 1.29 SQ MI

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

HYDROGRAPH AT STATION Q2
TRANSPOSITION AREA 500.0 SQ MI

TOTAL RAINFALL = 3.28, TOTAL LOSS = 2.19, TOTAL EXCESS = 1.09

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
669.	12.75	(CFS)	136.	38.	36.	36.
		(INCHES)	.980	1.085	1.085	1.085
		(AC-FT)	67.	75.	75.	75.

CUMULATIVE AREA = 1.29 SQ MI

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INTERPOLATED HYDROGRAPH AT Q2

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	6.	*	1		1230	151	851.	*	1		1845	226	7.
1		0005	2	0.	*	1		0620	77	6.	*	1		1235	152	915.	*	1		1850	227	7.
1		0010	3	0.	*	1		0625	78	6.	*	1		1240	153	947.	*	1		1855	228	7.
1		0015	4	0.	*	1		0630	79	6.	*	1		1245	154	950.	*	1		1900	229	7.
1		0020	5	0.	*	1		0635	80	6.	*	1		1250	155	911.	*	1		1905	230	6.
1		0025	6	0.	*	1		0640	81	7.	*	1		1255	156	815.	*	1		1910	231	6.
1		0030	7	0.	*	1		0645	82	7.	*	1		1300	157	707.	*	1		1915	232	6.
1		0035	8	1.	*	1		0650	83	7.	*	1		1305	158	620.	*	1		1920	233	6.
1		0040	9	1.	*	1		0655	84	7.	*	1		1310	159	536.	*	1		1925	234	6.
1		0045	10	1.	*	1		0700	85	7.	*	1		1315	160	448.	*	1		1930	235	6.
1		0050	11	1.	*	1		0705	86	7.	*	1		1320	161	372.	*	1		1935	236	6.
1		0055	12	2.	*	1		0710	87	7.	*	1		1325	162	306.	*	1		1940	237	6.
1		0100	13	2.	*	1		0715	88	7.	*	1		1330	163	246.	*	1		1945	238	6.
1		0105	14	2.	*	1		0720	89	7.	*	1		1335	164	195.	*	1		1950	239	6.
1		0110	15	3.	*	1		0725	90	7.	*	1		1340	165	161.	*	1		1955	240	6.
1		0115	16	3.	*	1		0730	91	7.	*	1		1345	166	135.	*	1		2000	241	6.
1		0120	17	3.	*	1		0735	92	7.	*	1		1350	167	112.	*	1		2005	242	6.
1		0125	18	3.	*	1		0740	93	7.	*	1		1355	168	90.	*	1		2010	243	6.
1		0130	19	4.	*	1		0745	94	7.	*	1		1400	169	75.	*	1		2015	244	6.
1		0135	20	4.	*	1		0750	95	7.	*	1		1405	170	63.	*	1		2020	245	6.
1		0140	21	4.	*	1		0755	96	7.	*	1		1410	171	52.	*	1		2025	246	6.
1		0145	22	4.	*	1		0800	97	8.	*	1		1415	172	50.	*	1		2030	247	6.
1		0150	23	4.	*	1		0805	98	8.	*	1		1420	173	49.	*	1		2035	248	6.
1		0155	24	4.	*	1		0810	99	8.	*	1		1425	174	44.	*	1		2040	249	6.
1		0200	25	4.	*	1		0815	100	8.	*	1		1430	175	38.	*	1		2045	250	5.
1		0205	26	4.	*	1		0820	101	8.	*	1		1435	176	33.	*	1		2050	251	5.
1		0210	27	4.	*	1		0825	102	8.	*	1		1440	177	27.	*	1		2055	252	5.
1		0215	28	4.	*	1		0830	103	8.	*	1		1445	178	22.	*	1		2100	253	5.
1		0220	29	4.	*	1		0835	104	8.	*	1		1450	179	17.	*	1		2105	254	5.
1		0225	30	4.	*	1		0840	105	9.	*	1		1455	180	16.	*	1		2110	255	5.
1		0230	31	4.	*	1		0845	106	9.	*	1		1500	181	16.	*	1		2115	256	5.
1		0235	32	4.	*	1		0850	107	9.	*	1		1505	182	15.	*	1		2120	257	5.
1		0240	33	4.	*	1		0855	108	9.	*	1		1510	183	15.	*	1		2125	258	5.
1		0245	34	4.	*	1		0900	109	9.	*	1		1515	184	14.	*	1		2130	259	5.
1		0250	35	4.	*	1		0905	110	9.	*	1		1520	185	14.	*	1		2135	260	5.
1		0255	36	5.	*	1		0910	111	10.	*	1		1525	186	14.	*	1		2140	261	5.
1		0300	37	5.	*	1		0915	112	10.	*	1		1530	187	13.	*	1		2145	262	5.
1		0305	38	5.	*	1		0920	113	10.	*	1		1535	188	13.	*	1		2150	263	5.
1		0310	39	5.	*	1		0925	114	10.	*	1		1540	189	13.	*	1		2155	264	5.
1		0315	40	5.	*	1		0930	115	10.	*	1		1545	190	12.	*	1		2200	265	5.

1	0320	41	5.	*	1	0935	116	10.	*	1	1550	191	12.	*	1	2205	266	5.
1	0325	42	5.	*	1	0940	117	11.	*	1	1555	192	12.	*	1	2210	267	5.
1	0330	43	5.	*	1	0945	118	11.	*	1	1600	193	11.	*	1	2215	268	5.
1	0335	44	5.	*	1	0950	119	11.	*	1	1605	194	11.	*	1	2220	269	5.
1	0340	45	5.	*	1	0955	120	11.	*	1	1610	195	11.	*	1	2225	270	5.
1	0345	46	5.	*	1	1000	121	11.	*	1	1615	196	11.	*	1	2230	271	5.
1	0350	47	5.	*	1	1005	122	12.	*	1	1620	197	10.	*	1	2235	272	5.
1	0355	48	5.	*	1	1010	123	12.	*	1	1625	198	10.	*	1	2240	273	5.
1	0400	49	5.	*	1	1015	124	12.	*	1	1630	199	10.	*	1	2245	274	5.
1	0405	50	5.	*	1	1020	125	12.	*	1	1635	200	10.	*	1	2250	275	5.
1	0410	51	5.	*	1	1025	126	13.	*	1	1640	201	10.	*	1	2255	276	5.
1	0415	52	5.	*	1	1030	127	13.	*	1	1645	202	9.	*	1	2300	277	5.
1	0420	53	5.	*	1	1035	128	14.	*	1	1650	203	9.	*	1	2305	278	4.
1	0425	54	5.	*	1	1040	129	14.	*	1	1655	204	9.	*	1	2310	279	4.
1	0430	55	5.	*	1	1045	130	14.	*	1	1700	205	9.	*	1	2315	280	4.
1	0435	56	5.	*	1	1050	131	15.	*	1	1705	206	9.	*	1	2320	281	4.
1	0440	57	5.	*	1	1055	132	16.	*	1	1710	207	9.	*	1	2325	282	4.
1	0445	58	5.	*	1	1100	133	16.	*	1	1715	208	9.	*	1	2330	283	4.
1	0450	59	5.	*	1	1105	134	17.	*	1	1720	209	9.	*	1	2335	284	4.
1	0455	60	5.	*	1	1110	135	18.	*	1	1725	210	8.	*	1	2340	285	4.
1	0500	61	6.	*	1	1115	136	18.	*	1	1730	211	8.	*	1	2345	286	4.
1	0505	62	6.	*	1	1120	137	19.	*	1	1735	212	8.	*	1	2350	287	4.
1	0510	63	6.	*	1	1125	138	21.	*	1	1740	213	8.	*	1	2355	288	4.
1	0515	64	6.	*	1	1130	139	22.	*	1	1745	214	8.	*	2	0000	289	4.
1	0520	65	6.	*	1	1135	140	38.	*	1	1750	215	8.	*	2	0005	290	4.
1	0525	66	6.	*	1	1140	141	54.	*	1	1755	216	8.	*	2	0010	291	4.
1	0530	67	6.	*	1	1145	142	81.	*	1	1800	217	8.	*	2	0015	292	4.
1	0535	68	6.	*	1	1150	143	136.	*	1	1805	218	8.	*	2	0020	293	4.
1	0540	69	6.	*	1	1155	144	205.	*	1	1810	219	8.	*	2	0025	294	4.
1	0545	70	6.	*	1	1200	145	286.	*	1	1815	220	8.	*	2	0030	295	4.
1	0550	71	6.	*	1	1205	146	362.	*	1	1820	221	7.	*	2	0035	296	3.
1	0555	72	6.	*	1	1210	147	450.	*	1	1825	222	7.	*	2	0040	297	3.
1	0600	73	6.	*	1	1215	148	541.	*	1	1830	223	7.	*	2	0045	298	3.
1	0605	74	6.	*	1	1220	149	629.	*	1	1835	224	7.	*	2	0050	299	3.
1	0610	75	6.	*	1	1225	150	746.	*	1	1840	225	7.	*	2	0055	300	2.
				*					*					*				

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
950.	12.75	(CFS)	191.	52.	51.	51.
		(INCHES)	1.380	1.512	1.513	1.513
		(AC-FT)	95.	104.	104.	104.

CUMULATIVE AREA = 1.29 SQ MI

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          **************
          *            *
0 KK      *        1Q  *
          *            *
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Combining Q1 & Q2

892 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

893 HC HYDROGRAPH COMBINATION

ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 1Q
TRANSPOSITION AREA .0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
1783.	12.75	(CFS)	352.	97.	93.	93.
		(INCHES)	1.376	1.516	1.516	1.516
		(AC-FT)	175.	192.	192.	192.

CUMULATIVE AREA = 2.38 SQ MI

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HYDROGRAPH AT STATION 1Q
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
1734.	12.75	(CFS)	343.	94.	91.	91.
		(INCHES)	1.339	1.476	1.476	1.476
		(AC-FT)	170.	187.	187.	187.

CUMULATIVE AREA = 2.38 SQ MI

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

HYDROGRAPH AT STATION 1Q
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
1652.	12.75	(CFS)	327.	90.	87.	87.
		(INCHES)	1.278	1.411	1.411	1.411
		(AC-FT)	162.	179.	179.	179.

CUMULATIVE AREA = 2.38 SQ MI

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

HYDROGRAPH AT STATION 1Q

TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1470.	12.75	(CFS)	292.	81.	78.	78.
		(INCHES)	1.142	1.265	1.265	1.265
		(AC-FT)	145.	161.	161.	161.

CUMULATIVE AREA = 2.38 SQ MI

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

HYDROGRAPH AT STATION 1Q
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1387.	12.75	(CFS)	276.	77.	74.	74.
		(INCHES)	1.080	1.199	1.199	1.199
		(AC-FT)	137.	152.	152.	152.

CUMULATIVE AREA = 2.38 SQ MI

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

HYDROGRAPH AT STATION 1Q
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1198.	12.75	(CFS)	241.	67.	65.	65.
		(INCHES)	.941	1.050	1.050	1.050
		(AC-FT)	119.	133.	133.	133.

CUMULATIVE AREA = 2.38 SQ MI

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INTERPOLATED HYDROGRAPH AT 1Q

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	11.	*	1		1230	151	1430.	*	1		1845	226	14.
1		0005	2	0.	*	1		0620	77	11.	*	1		1235	152	1602.	*	1		1850	227	14.
1		0010	3	0.	*	1		0625	78	11.	*	1		1240	153	1707.	*	1		1855	228	14.
1		0015	4	0.	*	1		0630	79	12.	*	1		1245	154	1739.	*	1		1900	229	14.
1		0020	5	0.	*	1		0635	80	12.	*	1		1250	155	1690.	*	1		1905	230	14.
1		0025	6	0.	*	1		0640	81	12.	*	1		1255	156	1552.	*	1		1910	231	13.
1		0030	7	0.	*	1		0645	82	12.	*	1		1300	157	1381.	*	1		1915	232	13.
1		0035	8	1.	*	1		0650	83	12.	*	1		1305	158	1220.	*	1		1920	233	13.
1		0040	9	1.	*	1		0655	84	12.	*	1		1310	159	1059.	*	1		1925	234	13.
1		0045	10	1.	*	1		0700	85	12.	*	1		1315	160	898.	*	1		1930	235	13.
1		0050	11	1.	*	1		0705	86	12.	*	1		1320	161	756.	*	1		1935	236	13.
1		0055	12	2.	*	1		0710	87	12.	*	1		1325	162	635.	*	1		1940	237	13.
1		0100	13	2.	*	1		0715	88	12.	*	1		1330	163	529.	*	1		1945	238	12.

1	0105	14	3.	*	1	0720	89	13.	*	1	1335	164	439.	*	1	1950	239	12.
1	0110	15	3.	*	1	0725	90	13.	*	1	1340	165	370.	*	1	1955	240	12.
1	0115	16	3.	*	1	0730	91	13.	*	1	1345	166	314.	*	1	2000	241	12.
1	0120	17	4.	*	1	0735	92	13.	*	1	1350	167	267.	*	1	2005	242	12.
1	0125	18	4.	*	1	0740	93	13.	*	1	1355	168	226.	*	1	2010	243	12.
1	0130	19	4.	*	1	0745	94	13.	*	1	1400	169	197.	*	1	2015	244	12.
1	0135	20	5.	*	1	0750	95	13.	*	1	1405	170	173.	*	1	2020	245	12.
1	0140	21	5.	*	1	0755	96	14.	*	1	1410	171	151.	*	1	2025	246	12.
1	0145	22	5.	*	1	0800	97	14.	*	1	1415	172	140.	*	1	2030	247	11.
1	0150	23	6.	*	1	0805	98	14.	*	1	1420	173	129.	*	1	2035	248	11.
1	0155	24	6.	*	1	0810	99	14.	*	1	1425	174	114.	*	1	2040	249	11.
1	0200	25	6.	*	1	0815	100	14.	*	1	1430	175	101.	*	1	2045	250	11.
1	0205	26	6.	*	1	0820	101	14.	*	1	1435	176	88.	*	1	2050	251	11.
1	0210	27	7.	*	1	0825	102	15.	*	1	1440	177	76.	*	1	2055	252	11.
1	0215	28	7.	*	1	0830	103	15.	*	1	1445	178	65.	*	1	2100	253	11.
1	0220	29	7.	*	1	0835	104	15.	*	1	1450	179	56.	*	1	2105	254	11.
1	0225	30	7.	*	1	0840	105	15.	*	1	1455	180	52.	*	1	2110	255	11.
1	0230	31	7.	*	1	0845	106	15.	*	1	1500	181	48.	*	1	2115	256	10.
1	0235	32	7.	*	1	0850	107	16.	*	1	1505	182	46.	*	1	2120	257	10.
1	0240	33	8.	*	1	0855	108	16.	*	1	1510	183	44.	*	1	2125	258	10.
1	0245	34	8.	*	1	0900	109	16.	*	1	1515	184	43.	*	1	2130	259	10.
1	0250	35	8.	*	1	0905	110	17.	*	1	1520	185	41.	*	1	2135	260	10.
1	0255	36	8.	*	1	0910	111	17.	*	1	1525	186	39.	*	1	2140	261	10.
1	0300	37	8.	*	1	0915	112	17.	*	1	1530	187	37.	*	1	2145	262	10.
1	0305	38	8.	*	1	0920	113	17.	*	1	1535	188	36.	*	1	2150	263	10.
1	0310	39	8.	*	1	0925	114	18.	*	1	1540	189	34.	*	1	2155	264	10.
1	0315	40	8.	*	1	0930	115	18.	*	1	1545	190	33.	*	1	2200	265	10.
1	0320	41	9.	*	1	0935	116	18.	*	1	1550	191	31.	*	1	2205	266	10.
1	0325	42	9.	*	1	0940	117	19.	*	1	1555	192	30.	*	1	2210	267	10.
1	0330	43	9.	*	1	0945	118	19.	*	1	1600	193	29.	*	1	2215	268	10.
1	0335	44	9.	*	1	0950	119	19.	*	1	1605	194	28.	*	1	2220	269	10.
1	0340	45	9.	*	1	0955	120	20.	*	1	1610	195	27.	*	1	2225	270	10.
1	0345	46	9.	*	1	1000	121	20.	*	1	1615	196	26.	*	1	2230	271	10.
1	0350	47	9.	*	1	1005	122	20.	*	1	1620	197	25.	*	1	2235	272	9.
1	0355	48	9.	*	1	1010	123	21.	*	1	1625	198	24.	*	1	2240	273	9.
1	0400	49	9.	*	1	1015	124	21.	*	1	1630	199	23.	*	1	2245	274	9.
1	0405	50	9.	*	1	1020	125	22.	*	1	1635	200	23.	*	1	2250	275	9.
1	0410	51	9.	*	1	1025	126	22.	*	1	1640	201	22.	*	1	2255	276	9.
1	0415	52	9.	*	1	1030	127	23.	*	1	1645	202	21.	*	1	2300	277	9.
1	0420	53	9.	*	1	1035	128	23.	*	1	1650	203	21.	*	1	2305	278	9.
1	0425	54	9.	*	1	1040	129	24.	*	1	1655	204	20.	*	1	2310	279	9.
1	0430	55	9.	*	1	1045	130	24.	*	1	1700	205	20.	*	1	2315	280	9.
1	0435	56	10.	*	1	1050	131	25.	*	1	1705	206	19.	*	1	2320	281	9.
1	0440	57	10.	*	1	1055	132	26.	*	1	1710	207	19.	*	1	2325	282	9.
1	0445	58	10.	*	1	1100	133	27.	*	1	1715	208	19.	*	1	2330	283	9.
1	0450	59	10.	*	1	1105	134	28.	*	1	1720	209	18.	*	1	2335	284	9.
1	0455	60	10.	*	1	1110	135	29.	*	1	1725	210	18.	*	1	2340	285	8.
1	0500	61	10.	*	1	1115	136	30.	*	1	1730	211	18.	*	1	2345	286	8.
1	0505	62	10.	*	1	1120	137	31.	*	1	1735	212	17.	*	1	2350	287	8.
1	0510	63	10.	*	1	1125	138	33.	*	1	1740	213	17.	*	1	2355	288	8.
1	0515	64	10.	*	1	1130	139	34.	*	1	1745	214	17.	*	2	0000	289	8.
1	0520	65	10.	*	1	1135	140	51.	*	1	1750	215	17.	*	2	0005	290	8.
1	0525	66	10.	*	1	1140	141	67.	*	1	1755	216	17.	*	2	0010	291	8.
1	0530	67	10.	*	1	1145	142	95.	*	1	1800	217	16.	*	2	0015	292	8.
1	0535	68	10.	*	1	1150	143	150.	*	1	1805	218	16.	*	2	0020	293	8.
1	0540	69	11.	*	1	1155	144	221.	*	1	1810	219	16.	*	2	0025	294	8.
1	0545	70	11.	*	1	1200	145	306.	*	1	1815	220	16.	*	2	0030	295	8.
1	0550	71	11.	*	1	1205	146	395.	*	1	1820	221	15.	*	2	0035	296	7.
1	0555	72	11.	*	1	1210	147	527.	*	1	1825	222	15.	*	2	0040	297	7.
1	0600	73	11.	*	1	1215	148	702.	*	1	1830	223	15.	*	2	0045	298	7.

```
   1    0605   74       11.   *   1     1220  149      922.   *   1     1835  224       15.   *   2     0050  299       6.
   1    0610   75       11.   *   1     1225  150     1188.   *   1     1840  225       15.   *   2     0055  300       6.
                         *                                     *                                 *
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PEAK FLOW (CFS)	TIME (HR)		6-HR	MAXIMUM AVERAGE FLOW 24-HR	72-HR	24.92-HR
1739.	12.75	(CFS)	344.	95.	91.	91.
		(INCHES)	1.343	1.481	1.481	1.481
		(AC-FT)	170.	188.	188.	188.

CUMULATIVE AREA = 2.38 SQ MI

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          **************
          *            *
894 KK    *     BES2W  *       BUCKEYE STRUCTURE NO. 2 - WESTERN OR LOWER PORTION
          *            *
          **************
                        Combining  M1+M2+M3+M4 & P1+P2+P3 & Q1+Q2

896 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          2  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL          0.  HYDROGRAPH PLOT SCALE
                     IPNCH          0  PUNCH COMPUTED HYDROGRAPH
                      IOUT         22  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

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

897 HC          HYDROGRAPH COMBINATION
                     ICOMP          4  NUMBER OF HYDROGRAPHS TO COMBINE

                                                  ***

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

                       HYDROGRAPH AT STATION    BES2W
                      TRANSPOSITION AREA       .0 SQ MI
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PEAK FLOW (CFS)	TIME (HR)		6-HR	MAXIMUM AVERAGE FLOW 24-HR	72-HR	24.92-HR
8832.	13.67	(CFS)	3623.	963.	928.	928.
		(INCHES)	1.283	1.365	1.365	1.365
		(AC-FT)	1797.	1911.	1911.	1911.

CUMULATIVE AREA = 26.25 SQ MI

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

                       HYDROGRAPH AT STATION    BES2W
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TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
3559.	13.58	(CFS)	3521.	937.	902.	902.
		(INCHES)	1.247	1.327	1.327	1.327
		(AC-FT)	1746.	1858.	1858.	1858.

CUMULATIVE AREA = 26.25 SQ MI

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

HYDROGRAPH AT STATION BES2W
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
8122.	13.58	(CFS)	3354.	893.	860.	860.
		(INCHES)	1.188	1.265	1.265	1.265
		(AC-FT)	1663.	1772.	1772.	1772.

CUMULATIVE AREA = 26.25 SQ MI

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

HYDROGRAPH AT STATION BES2W
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
7177.	13.50	(CFS)	2980.	796.	766.	766.
		(INCHES)	1.055	1.127	1.127	1.127
		(AC-FT)	1478.	1578.	1578.	1578.

CUMULATIVE AREA = 26.25 SQ MI

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

HYDROGRAPH AT STATION BES2W
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
6760.	13.50	(CFS)	2810.	751.	724.	724.
		(INCHES)	.995	1.064	1.065	1.065
		(AC-FT)	1393.	1490.	1490.	1490.

CUMULATIVE AREA = 26.25 SQ MI

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

HYDROGRAPH AT STATION BES2W
TRANSPOSITION AREA 500.0 SQ MI

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

5823.	13.50	(CFS)	2427.	651.	628.	628.
		(INCHES)	.860	.923	.923	.923
		(AC-FT)	1203.	1292.	1292.	1292.

CUMULATIVE AREA = 26.25 SQ MI

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INTERPOLATED HYDROGRAPH AT BES2W

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	60.	1		1230	151	4612.	1		1845	226	108.
1		0005	2	0.	1		0620	77	60.	1		1235	152	5150.	1		1850	227	106.
1		0010	3	0.	1		0625	78	61.	1		1240	153	5604.	1		1855	228	104.
1		0015	4	0.	1		0630	79	62.	1		1245	154	6001.	1		1900	229	102.
1		0020	5	0.	1		0635	80	63.	1		1250	155	6323.	1		1905	230	101.
1		0025	6	1.	1		0640	81	63.	1		1255	156	6522.	1		1910	231	99.
1		0030	7	1.	1		0645	82	64.	1		1300	157	6659.	1		1915	232	98.
1		0035	8	2.	1		0650	83	65.	1		1305	158	6851.	1		1920	233	97.
1		0040	9	2.	1		0655	84	66.	1		1310	159	7079.	1		1925	234	95.
1		0045	10	3.	1		0700	85	67.	1		1315	160	7250.	1		1930	235	94.
1		0050	11	3.	1		0705	86	67.	1		1320	161	7391.	1		1935	236	93.
1		0055	12	4.	1		0710	87	68.	1		1325	162	7493.	1		1940	237	92.
1		0100	13	5.	1		0715	88	68.	1		1330	163	7550.	1		1945	238	91.
1		0105	14	6.	1		0720	89	69.	1		1335	164	7548.	1		1950	239	90.
1		0110	15	7.	1		0725	90	69.	1		1340	165	7500.	1		1955	240	89.
1		0115	16	7.	1		0730	91	70.	1		1345	166	7455.	1		2000	241	88.
1		0120	17	8.	1		0735	92	71.	1		1350	167	7339.	1		2005	242	87.
1		0125	18	9.	1		0740	93	71.	1		1355	168	7130.	1		2010	243	86.
1		0130	19	9.	1		0745	94	72.	1		1400	169	6830.	1		2015	244	85.
1		0135	20	10.	1		0750	95	73.	1		1405	170	6509.	1		2020	245	84.
1		0140	21	11.	1		0755	96	73.	1		1410	171	6158.	1		2025	246	83.
1		0145	22	11.	1		0800	97	74.	1		1415	172	5783.	1		2030	247	81.
1		0150	23	12.	1		0805	98	75.	1		1420	173	5400.	1		2035	248	80.
1		0155	24	12.	1		0810	99	76.	1		1425	174	5018.	1		2040	249	79.
1		0200	25	13.	1		0815	100	77.	1		1430	175	4639.	1		2045	250	78.
1		0205	26	13.	1		0820	101	78.	1		1435	176	4267.	1		2050	251	78.
1		0210	27	14.	1		0825	102	79.	1		1440	177	3921.	1		2055	252	77.
1		0215	28	14.	1		0830	103	79.	1		1445	178	3612.	1		2100	253	76.
1		0220	29	14.	1		0835	104	80.	1		1450	179	3323.	1		2105	254	75.
1		0225	30	15.	1		0840	105	81.	1		1455	180	3048.	1		2110	255	74.
1		0230	31	15.	1		0845	106	82.	1		1500	181	2805.	1		2115	256	73.
1		0235	32	16.	1		0850	107	83.	1		1505	182	2568.	1		2120	257	73.
1		0240	33	16.	1		0855	108	84.	1		1510	183	2327.	1		2125	258	72.
1		0245	34	17.	1		0900	109	85.	1		1515	184	2099.	1		2130	259	71.
1		0250	35	17.	1		0905	110	86.	1		1520	185	1884.	1		2135	260	71.
1		0255	36	18.	1		0910	111	87.	1		1525	186	1694.	1		2140	261	70.
1		0300	37	18.	1		0915	112	88.	1		1530	187	1523.	1		2145	262	70.
1		0305	38	19.	1		0920	113	90.	1		1535	188	1375.	1		2150	263	69.
1		0310	39	19.	1		0925	114	91.	1		1540	189	1218.	1		2155	264	69.
1		0315	40	19.	1		0930	115	92.	1		1545	190	1071.	1		2200	265	68.
1		0320	41	20.	1		0935	116	94.	1		1550	191	955.	1		2205	266	68.
1		0325	42	20.	1		0940	117	95.	1		1555	192	858.	1		2210	267	67.
1		0330	43	21.	1		0945	118	97.	1		1600	193	775.	1		2215	268	67.
1		0335	44	21.	1		0950	119	98.	1		1605	194	692.	1		2220	269	66.
1		0340	45	21.	1		0955	120	100.	1		1610	195	626.	1		2225	270	65.

1	0345	46	22.	*	1	1000	121	102.	*	1	1615	196	565.	*	1	2230	271	65.
1	0350	47	22.	*	1	1005	122	103.	*	1	1620	197	506.	*	1	2235	272	64.
1	0355	48	23.	*	1	1010	123	105.	*	1	1625	198	453.	*	1	2240	273	64.
1	0400	49	24.	*	1	1015	124	107.	*	1	1630	199	406.	*	1	2245	274	63.
1	0405	50	25.	*	1	1020	125	109.	*	1	1635	200	367.	*	1	2250	275	62.
1	0410	51	26.	*	1	1025	126	111.	*	1	1640	201	347.	*	1	2255	276	62.
1	0415	52	27.	*	1	1030	127	113.	*	1	1645	202	329.	*	1	2300	277	61.
1	0420	53	30.	*	1	1035	128	115.	*	1	1650	203	313.	*	1	2305	278	61.
1	0425	54	33.	*	1	1040	129	118.	*	1	1655	204	296.	*	1	2310	279	60.
1	0430	55	37.	*	1	1045	130	120.	*	1	1700	205	280.	*	1	2315	280	60.
1	0435	56	40.	*	1	1050	131	123.	*	1	1705	206	271.	*	1	2320	281	59.
1	0440	57	43.	*	1	1055	132	126.	*	1	1710	207	264.	*	1	2325	282	59.
1	0445	58	45.	*	1	1100	133	129.	*	1	1715	208	256.	*	1	2330	283	58.
1	0450	59	47.	*	1	1105	134	132.	*	1	1720	209	250.	*	1	2335	284	58.
1	0455	60	48.	*	1	1110	135	136.	*	1	1725	210	244.	*	1	2340	285	58.
1	0500	61	49.	*	1	1115	136	140.	*	1	1730	211	238.	*	1	2345	286	58.
1	0505	62	50.	*	1	1120	137	144.	*	1	1735	212	223.	*	1	2350	287	57.
1	0510	63	51.	*	1	1125	138	149.	*	1	1740	213	207.	*	1	2355	288	57.
1	0515	64	52.	*	1	1130	139	155.	*	1	1745	214	190.	*	2	0000	289	57.
1	0520	65	52.	*	1	1135	140	255.	*	1	1750	215	173.	*	2	0005	290	57.
1	0525	66	53.	*	1	1140	141	358.	*	1	1755	216	156.	*	2	0010	291	56.
1	0530	67	54.	*	1	1145	142	484.	*	1	1800	217	138.	*	2	0015	292	56.
1	0535	68	54.	*	1	1150	143	687.	*	1	1805	218	133.	*	2	0020	293	55.
1	0540	69	55.	*	1	1155	144	945.	*	1	1810	219	128.	*	2	0025	294	55.
1	0545	70	55.	*	1	1200	145	1302.	*	1	1815	220	124.	*	2	0030	295	54.
1	0550	71	56.	*	1	1205	146	1651.	*	1	1820	221	120.	*	2	0035	296	53.
1	0555	72	57.	*	1	1210	147	2088.	*	1	1825	222	116.	*	2	0040	297	53.
1	0600	73	57.	*	1	1215	148	2615.	*	1	1830	223	114.	*	2	0045	298	52.
1	0605	74	58.	*	1	1220	149	3219.	*	1	1835	224	111.	*	2	0050	299	51.
1	0610	75	59.	*	1	1225	150	3928.	*	1	1840	225	109.	*	2	0055	300	50.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
7550.	13.50	(CFS)	3130.	835.	804.	804.
		(INCHES)	1.109	1.182	1.183	1.183
		(AC-FT)	1552.	1655.	1656.	1656.

CUMULATIVE AREA = 26.25 SQ MI

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          **************
          *            *
899 KK    *        R1  *
          *            *
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BASIN R1
THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
L= .9 Lca= .4 S= 285.0 Kn= .050 LAG= 16.0
PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN

904 KO OUTPUT CONTROL VARIABLES
IPRNT 2 PRINT CONTROL
IPLOT 0 PLOT CONTROL

QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

SUBBASIN RUNOFF DATA

905 BA SUBBASIN CHARACTERISTICS

TAREA	.30	SUBBASIN AREA

906 LG GREEN AND AMPT LOSS RATE

STRTL	.23	STARTING LOSS
DTH	.35	MOISTURE DEFICIT
PSIF	3.98	WETTING FRONT SUCTION
XKSAT	.35	HYDRAULIC CONDUCTIVITY
RTIMP	6.00	PERCENT IMPERVIOUS AREA

905 UI INPUT UNITGRAPH, 14 ORDINATES, VOLUME = .99

94.0	358.0	608.0	392.0	281.0	187.0	132.0	83.0	58.0	38.0
30.0	12.0	12.0	12.0						

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HYDROGRAPH AT STATION R1
TRANSPOSITION AREA .0 SQ MI

TOTAL RAINFALL = 4.20, TOTAL LOSS = 2.81, TOTAL EXCESS = 1.39

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
405.	12.08	(CFS)	42.	11.	11.	11.
		(INCHES)	1.299	1.372	1.372	1.372
		(AC-FT)	21.	22.	22.	22.

CUMULATIVE AREA = .30 SQ MI

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HYDROGRAPH AT STATION R1
TRANSPOSITION AREA 5.0 SQ MI

TOTAL RAINFALL = 4.12, TOTAL LOSS = 2.77, TOTAL EXCESS = 1.35

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
394.	12.08	(CFS)	41.	11.	10.	10.
		(INCHES)	1.264	1.335	1.336	1.336
		(AC-FT)	20.	21.	21.	21.

CUMULATIVE AREA = .30 SQ MI

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HYDROGRAPH AT STATION R1
TRANSPOSITION AREA 10.0 SQ MI

TOTAL RAINFALL = 3.99, TOTAL LOSS = 2.70, TOTAL EXCESS = 1.29

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
376.	12.08	(CFS)	39.	10.	10.	10.
		(INCHES)	1.206	1.276	1.276	1.276
		(AC-FT)	19.	20.	20.	20.

CUMULATIVE AREA = .30 SQ MI

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

HYDROGRAPH AT STATION R1
TRANSPOSITION AREA 50.0 SQ MI

TOTAL RAINFALL = 3.70, TOTAL LOSS = 2.55, TOTAL EXCESS = 1.15

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
336.	12.08	(CFS)	35.	9.	9.	9.
		(INCHES)	1.077	1.141	1.141	1.141
		(AC-FT)	17.	18.	18.	18.

CUMULATIVE AREA = .30 SQ MI

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HYDROGRAPH AT STATION R1
TRANSPOSITION AREA 100.0 SQ MI

TOTAL RAINFALL = 3.57, TOTAL LOSS = 2.48, TOTAL EXCESS = 1.09

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
317.	12.08	(CFS)	33.	9.	8.	8.
		(INCHES)	1.018	1.080	1.080	1.080
		(AC-FT)	16.	17.	17.	17.

CUMULATIVE AREA = .30 SQ MI

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HYDROGRAPH AT STATION R1
TRANSPOSITION AREA 500.0 SQ MI

TOTAL RAINFALL = 3.28, TOTAL LOSS = 2.33, TOTAL EXCESS = .95

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
276.	12.08	(CFS)	29.	8.	7.	7.
		(INCHES)	.885	.942	.942	.942
		(AC-FT)	14.	15.	15.	15.

CUMULATIVE AREA = .30 SQ MI

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INTERPOLATED HYDROGRAPH AT R1

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

1	0410	51	1.	*	1	1025	126	2.	*	1	1640	201	1.	*	1	2255	276	1.
1	0415	52	1.	*	1	1030	127	2.	*	1	1645	202	1.	*	1	2300	277	0.
1	0420	53	1.	*	1	1035	128	2.	*	1	1650	203	1.	*	1	2305	278	0.
1	0425	54	1.	*	1	1040	129	2.	*	1	1655	204	1.	*	1	2310	279	1.
1	0430	55	1.	*	1	1045	130	3.	*	1	1700	205	1.	*	1	2315	280	1.
1	0435	56	1.	*	1	1050	131	3.	*	1	1705	206	1.	*	1	2320	281	1.
1	0440	57	1.	*	1	1055	132	3.	*	1	1710	207	1.	*	1	2325	282	1.
1	0445	58	1.	*	1	1100	133	3.	*	1	1715	208	1.	*	1	2330	283	1.
1	0450	59	1.	*	1	1105	134	3.	*	1	1720	209	1.	*	1	2335	284	1.
1	0455	60	1.	*	1	1110	135	3.	*	1	1725	210	1.	*	1	2340	285	1.
1	0500	61	1.	*	1	1115	136	4.	*	1	1730	211	1.	*	1	2345	286	1.
1	0505	62	1.	*	1	1120	137	4.	*	1	1735	212	1.	*	1	2350	287	1.
1	0510	63	1.	*	1	1125	138	4.	*	1	1740	213	1.	*	1	2355	288	0.
1	0515	64	1.	*	1	1130	139	4.	*	1	1745	214	1.	*	2	0000	289	0.
1	0520	65	1.	*	1	1135	140	23.	*	1	1750	215	1.	*	2	0005	290	0.
1	0525	66	1.	*	1	1140	141	93.	*	1	1755	216	1.	*	2	0010	291	0.
1	0530	67	1.	*	1	1145	142	212.	*	1	1800	217	1.	*	2	0015	292	0.
1	0535	68	1.	*	1	1150	143	291.	*	1	1805	218	1.	*	2	0020	293	0.
1	0540	69	1.	*	1	1155	144	349.	*	1	1810	219	1.	*	2	0025	294	0.
1	0545	70	1.	*	1	1200	145	389.	*	1	1815	220	1.	*	2	0030	295	0.
1	0550	71	1.	*	1	1205	146	399.	*	1	1820	221	1.	*	2	0035	296	0.
1	0555	72	1.	*	1	1210	147	345.	*	1	1825	222	1.	*	2	0040	297	0.
1	0600	73	1.	*	1	1215	148	235.	*	1	1830	223	1.	*	2	0045	298	0.
1	0605	74	1.	*	1	1220	149	164.	*	1	1835	224	1.	*	2	0050	299	0.
1	0610	75	1.	*	1	1225	150	113.	*	1	1840	225	1.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
399.	12.08	(CFS)	41.	11.	11.	11.
		(INCHES)	1.280	1.352	1.352	1.352
		(AC-FT)	20.	22.	22.	22.

CUMULATIVE AREA = .30 SQ MI

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          *            *
910 KK    *        S1  *
          *            *
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BASIN S1

THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN

L= 2.4 Lca= .7 S= 140.0 Kn= .050 LAG= 33.0

PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN

915 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

SUBBASIN RUNOFF DATA

916 BA SUBBASIN CHARACTERISTICS
TAREA 1.46 SUBBASIN AREA

917 LG GREEN AND AMPT LOSS RATE
STRTL .19 STARTING LOSS
DTH .35 MOISTURE DEFICIT
PSIF 3.77 WETTING FRONT SUCTION
XKSAT .31 HYDRAULIC CONDUCTIVITY
RTIMP 7.00 PERCENT IMPERVIOUS AREA

916 UI INPUT UNITGRAPH, 30 ORDINATES, VOLUME = 1.00

149.0	284.0	668.0	981.0	1216.0	1674.0	1082.0	874.0	754.0	644.0
540.0	422.0	356.0	320.0	240.0	191.0	166.0	138.0	114.0	92.0
73.0	73.0	54.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0

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HYDROGRAPH AT STATION S1
TRANSPOSITION AREA .0 SQ MI

TOTAL RAINFALL = 4.20, TOTAL LOSS = 2.72, TOTAL EXCESS = 1.48

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1426.	12.25	(CFS)	219.	58.	56.	56.
		(INCHES)	1.392	1.478	1.479	1.479
		(AC-FT)	108.	115.	115.	115.

CUMULATIVE AREA = 1.46 SQ MI

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

HYDROGRAPH AT STATION S1
TRANSPOSITION AREA 5.0 SQ MI

TOTAL RAINFALL = 4.12, TOTAL LOSS = 2.68, TOTAL EXCESS = 1.44

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1389.	12.25	(CFS)	212.	56.	54.	54.
		(INCHES)	1.352	1.436	1.437	1.437
		(AC-FT)	105.	112.	112.	112.

CUMULATIVE AREA = 1.46 SQ MI

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

HYDROGRAPH AT STATION S1
TRANSPOSITION AREA 10.0 SQ MI

TOTAL RAINFALL = 3.99, TOTAL LOSS = 2.62, TOTAL EXCESS = 1.37

PEAK FLOW (CFS)	TIME (HR)		6-HR	MAXIMUM AVERAGE FLOW 24-HR	72-HR	24.92-HR
1329.	12.25	(CFS)	203.	54.	52.	52.
		(INCHES)	1.291	1.373	1.373	1.373
		(AC-FT)	101.	107.	107.	107.

CUMULATIVE AREA = 1.46 SQ MI

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HYDROGRAPH AT STATION S1
TRANSPOSITION AREA 50.0 SQ MI

TOTAL RAINFALL = 3.70, TOTAL LOSS = 2.46, TOTAL EXCESS = 1.24

PEAK FLOW (CFS)	TIME (HR)		6-HR	MAXIMUM AVERAGE FLOW 24-HR	72-HR	24.92-HR
1194.	12.25	(CFS)	182.	49.	47.	47.
		(INCHES)	1.162	1.237	1.238	1.238
		(AC-FT)	90.	96.	96.	96.

CUMULATIVE AREA = 1.46 SQ MI

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HYDROGRAPH AT STATION S1
TRANSPOSITION AREA 100.0 SQ MI

TOTAL RAINFALL = 3.57, TOTAL LOSS = 2.39, TOTAL EXCESS = 1.18

PEAK FLOW (CFS)	TIME (HR)		6-HR	MAXIMUM AVERAGE FLOW 24-HR	72-HR	24.92-HR
1133.	12.25	(CFS)	173.	46.	44.	44.
		(INCHES)	1.103	1.176	1.176	1.176
		(AC-FT)	86.	92.	92.	92.

CUMULATIVE AREA = 1.46 SQ MI

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HYDROGRAPH AT STATION S1
TRANSPOSITION AREA 500.0 SQ MI

TOTAL RAINFALL = 3.28, TOTAL LOSS = 2.24, TOTAL EXCESS = 1.04

PEAK FLOW (CFS)	TIME (HR)		6-HR	MAXIMUM AVERAGE FLOW 24-HR	72-HR	24.92-HR
995.	12.25	(CFS)	152.	41.	39.	39.
		(INCHES)	.971	1.038	1.038	1.038
		(AC-FT)	76.	81.	81.	81.

CUMULATIVE AREA = 1.46 SQ MI

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INTERPOLATED HYDROGRAPH AT S1

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	5.	*	1		1230	151	933.	*	1		1845	226	5.
1		0005	2	0.	*	1		0620	77	5.	*	1		1235	152	784.	*	1		1850	227	5.
1		0010	3	0.	*	1		0625	78	5.	*	1		1240	153	671.	*	1		1855	228	5.
1		0015	4	0.	*	1		0630	79	5.	*	1		1245	154	565.	*	1		1900	229	5.
1		0020	5	1.	*	1		0635	80	5.	*	1		1250	155	470.	*	1		1905	230	4.
1		0025	6	1.	*	1		0640	81	5.	*	1		1255	156	390.	*	1		1910	231	4.
1		0030	7	1.	*	1		0645	82	5.	*	1		1300	157	327.	*	1		1915	232	4.
1		0035	8	1.	*	1		0650	83	5.	*	1		1305	158	274.	*	1		1920	233	4.
1		0040	9	2.	*	1		0655	84	5.	*	1		1310	159	225.	*	1		1925	234	4.
1		0045	10	2.	*	1		0700	85	5.	*	1		1315	160	188.	*	1		1930	235	4.
1		0050	11	2.	*	1		0705	86	5.	*	1		1320	161	162.	*	1		1935	236	4.
1		0055	12	2.	*	1		0710	87	5.	*	1		1325	162	137.	*	1		1940	237	4.
1		0100	13	2.	*	1		0715	88	5.	*	1		1330	163	113.	*	1		1945	238	4.
1		0105	14	3.	*	1		0720	89	5.	*	1		1335	164	94.	*	1		1950	239	4.
1		0110	15	3.	*	1		0725	90	5.	*	1		1340	165	79.	*	1		1955	240	4.
1		0115	16	3.	*	1		0730	91	5.	*	1		1345	166	69.	*	1		2000	241	4.
1		0120	17	3.	*	1		0735	92	5.	*	1		1350	167	59.	*	1		2005	242	4.
1		0125	18	3.	*	1		0740	93	6.	*	1		1355	168	53.	*	1		2010	243	4.
1		0130	19	3.	*	1		0745	94	6.	*	1		1400	169	52.	*	1		2015	244	4.
1		0135	20	3.	*	1		0750	95	6.	*	1		1405	170	45.	*	1		2020	245	4.
1		0140	21	3.	*	1		0755	96	6.	*	1		1410	171	38.	*	1		2025	246	4.
1		0145	22	3.	*	1		0800	97	6.	*	1		1415	172	32.	*	1		2030	247	4.
1		0150	23	3.	*	1		0805	98	6.	*	1		1420	173	25.	*	1		2035	248	4.
1		0155	24	3.	*	1		0810	99	6.	*	1		1425	174	19.	*	1		2040	249	4.
1		0200	25	3.	*	1		0815	100	6.	*	1		1430	175	12.	*	1		2045	250	4.
1		0205	26	3.	*	1		0820	101	6.	*	1		1435	176	12.	*	1		2050	251	4.
1		0210	27	3.	*	1		0825	102	6.	*	1		1440	177	11.	*	1		2055	252	4.
1		0215	28	3.	*	1		0830	103	6.	*	1		1445	178	11.	*	1		2100	253	4.
1		0220	29	3.	*	1		0835	104	7.	*	1		1450	179	11.	*	1		2105	254	4.
1		0225	30	3.	*	1		0840	105	7.	*	1		1455	180	10.	*	1		2110	255	4.
1		0230	31	3.	*	1		0845	106	7.	*	1		1500	181	10.	*	1		2115	256	4.
1		0235	32	3.	*	1		0850	107	7.	*	1		1505	182	10.	*	1		2120	257	4.
1		0240	33	3.	*	1		0855	108	7.	*	1		1510	183	9.	*	1		2125	258	4.
1		0245	34	3.	*	1		0900	109	7.	*	1		1515	184	9.	*	1		2130	259	4.
1		0250	35	3.	*	1		0905	110	7.	*	1		1520	185	9.	*	1		2135	260	4.
1		0255	36	3.	*	1		0910	111	7.	*	1		1525	186	9.	*	1		2140	261	4.
1		0300	37	3.	*	1		0915	112	7.	*	1		1530	187	9.	*	1		2145	262	4.
1		0305	38	4.	*	1		0920	113	8.	*	1		1535	188	8.	*	1		2150	263	4.
1		0310	39	4.	*	1		0925	114	8.	*	1		1540	189	8.	*	1		2155	264	4.
1		0315	40	4.	*	1		0930	115	8.	*	1		1545	190	8.	*	1		2200	265	4.
1		0320	41	4.	*	1		0935	116	8.	*	1		1550	191	8.	*	1		2205	266	3.
1		0325	42	4.	*	1		0940	117	8.	*	1		1555	192	8.	*	1		2210	267	3.
1		0330	43	3.	*	1		0945	118	8.	*	1		1600	193	7.	*	1		2215	268	3.
1		0335	44	3.	*	1		0950	119	9.	*	1		1605	194	7.	*	1		2220	269	3.
1		0340	45	3.	*	1		0955	120	9.	*	1		1610	195	7.	*	1		2225	270	3.
1		0345	46	3.	*	1		1000	121	9.	*	1		1615	196	7.	*	1		2230	271	3.
1		0350	47	3.	*	1		1005	122	9.	*	1		1620	197	7.	*	1		2235	272	3.
1		0355	48	4.	*	1		1010	123	9.	*	1		1625	198	7.	*	1		2240	273	3.
1		0400	49	4.	*	1		1015	124	10.	*	1		1630	199	7.	*	1		2245	274	3.
1		0405	50	4.	*	1		1020	125	10.	*	1		1635	200	6.	*	1		2250	275	3.
1		0410	51	4.	*	1		1025	126	10.	*	1		1640	201	6.	*	1		2255	276	3.
1		0415	52	4.	*	1		1030	127	11.	*	1		1645	202	6.	*	1		2300	277	3.
1		0420	53	4.	*	1		1035	128	11.	*	1		1650	203	6.	*	1		2305	278	3.
1		0425	54	4.	*	1		1040	129	11.	*	1		1655	204	6.	*	1		2310	279	3.

1	0430	55	4.	*	1	1045	130	12.	*	1	1700	205	6.	*	1	2315	280	3.
1	0435	56	4.	*	1	1050	131	13.	*	1	1705	206	6.	*	1	2320	281	3.
1	0440	57	4.	*	1	1055	132	13.	*	1	1710	207	6.	*	1	2325	282	3.
1	0445	58	4.	*	1	1100	133	14.	*	1	1715	208	6.	*	1	2330	283	3.
1	0450	59	4.	*	1	1105	134	15.	*	1	1720	209	6.	*	1	2335	284	3.
1	0455	60	4.	*	1	1110	135	15.	*	1	1725	210	6.	*	1	2340	285	3.
1	0500	61	4.	*	1	1115	136	16.	*	1	1730	211	6.	*	1	2345	286	3.
1	0505	62	4.	*	1	1120	137	17.	*	1	1735	212	6.	*	1	2350	287	3.
1	0510	63	4.	*	1	1125	138	18.	*	1	1740	213	6.	*	1	2355	288	3.
1	0515	64	4.	*	1	1130	139	20.	*	1	1745	214	6.	*	2	0000	289	3.
1	0520	65	4.	*	1	1135	140	52.	*	1	1750	215	6.	*	2	0005	290	3.
1	0525	66	4.	*	1	1140	141	111.	*	1	1755	216	5.	*	2	0010	291	3.
1	0530	67	4.	*	1	1145	142	249.	*	1	1800	217	5.	*	2	0015	292	3.
1	0535	68	4.	*	1	1150	143	451.	*	1	1805	218	5.	*	2	0020	293	2.
1	0540	69	4.	*	1	1155	144	703.	*	1	1810	219	5.	*	2	0025	294	2.
1	0545	70	4.	*	1	1200	145	1051.	*	1	1815	220	5.	*	2	0030	295	2.
1	0550	71	4.	*	1	1205	146	1248.	*	1	1820	221	5.	*	2	0035	296	1.
1	0555	72	4.	*	1	1210	147	1375.	*	1	1825	222	5.	*	2	0040	297	1.
1	0600	73	5.	*	1	1215	148	1397.	*	1	1830	223	5.	*	2	0045	298	1.
1	0605	74	5.	*	1	1220	149	1330.	*	1	1835	224	5.	*	2	0050	299	1.
1	0610	75	5.	*	1	1225	150	1192.	*	1	1840	225	5.	*	2	0055	300	1.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
1397.	12.25	(CFS)	214.	57.	55.	55.
		(INCHES)	1.360	1.445	1.445	1.445
		(AC-FT)	106.	112.	113.	113.

CUMULATIVE AREA = 1.46 SQ MI

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          **************
          *            *
923 KK    *        T1  *
          *            *
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BASIN T1
THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
L= 3.9 Lca= 1.6 S= 304.0 Kn= .050 LAG= 49.0
PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN

928 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

SUBBASIN RUNOFF DATA

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929 BA          SUBBASIN CHARACTERISTICS
                     TAREA        2.96  SUBBASIN AREA

LG              GREEN AND AMPT LOSS RATE
                     STRTL         .24  STARTING LOSS
                       DTH         .35  MOISTURE DEFICIT
                      PSIF        3.61  WETTING FRONT SUCTION
                     XKSAT         .29  HYDRAULIC CONDUCTIVITY
                     RTIMP       10.00  PERCENT IMPERVIOUS AREA

929 UI          INPUT UNITGRAPH,  45 ORDINATES,  VOLUME = 1.00
                   204.0     204.0     489.0     832.0    1183.0    1403.0    1595.0    1997.0    2334.0    1516.0
                  1272.0    1158.0    1040.0     945.0     840.0     745.0     642.0     530.0     490.0     456.0
                   406.0     335.0     271.0     257.0     223.0     221.0     156.0     156.0     151.0     100.0
                   100.0     100.0     100.0      70.0      39.0      39.0      39.0      39.0      39.0      39.0
                    39.0      39.0      39.0      39.0      39.0

                                                                    ***

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

                       HYDROGRAPH AT STATION       T1
                      TRANSPOSITION AREA       .0 SQ MI

   TOTAL RAINFALL =    4.20, TOTAL LOSS =    2.60, TOTAL EXCESS =    1.60

PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
  (CFS)       (HR)                  6-HR        24-HR       72-HR     24.92-HR
  2269.      12.42       (CFS)       470.         127.        123.         123.
                        (INCHES)     1.477        1.600       1.600        1.600
                         (AC-FT)      233.         253.        253.         253.

                       CUMULATIVE AREA =    2.96 SQ MI


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

                       HYDROGRAPH AT STATION       T1
                      TRANSPOSITION AREA      5.0 SQ MI

   TOTAL RAINFALL =    4.12, TOTAL LOSS =    2.57, TOTAL EXCESS =    1.55

PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
  (CFS)       (HR)                  6-HR        24-HR       72-HR     24.92-HR
   2209.     12.42       (CFS)       457.         124.        119.         119.
                        (INCHES)     1.434        1.555       1.555        1.555
                         (AC-FT)      226.         245.        246.         246.

                       CUMULATIVE AREA =    2.96 SQ MI


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

                       HYDROGRAPH AT STATION       T1
                      TRANSPOSITION AREA     10.0 SQ MI

   TOTAL RAINFALL =    3.99, TOTAL LOSS =    2.51, TOTAL EXCESS =    1.48

PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
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PEAK FLOW (CFS)	TIME (HR)		6-HR	24-HR	72-HR	24.92-HR
2111.	12.42	(CFS)	435.	118.	114.	114.
		(INCHES)	1.365	1.482	1.483	1.483
		(AC-FT)	216.	234.	234.	234.

CUMULATIVE AREA = 2.96 SQ MI

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HYDROGRAPH AT STATION T1
TRANSPOSITION AREA 50.0 SQ MI

TOTAL RAINFALL = 3.70, TOTAL LOSS = 2.37, TOTAL EXCESS = 1.33

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1901.	12.42	(CFS)	391.	106.	102.	102.
		(INCHES)	1.227	1.335	1.335	1.335
		(AC-FT)	194.	211.	211.	211.

CUMULATIVE AREA = 2.96 SQ MI

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HYDROGRAPH AT STATION T1
TRANSPOSITION AREA 100.0 SQ MI

TOTAL RAINFALL = 3.57, TOTAL LOSS = 2.30, TOTAL EXCESS = 1.27

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1807.	12.42	(CFS)	371.	101.	98.	98.
		(INCHES)	1.167	1.271	1.272	1.272
		(AC-FT)	184.	201.	201.	201.

CUMULATIVE AREA = 2.96 SQ MI

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HYDROGRAPH AT STATION T1
TRANSPOSITION AREA 500.0 SQ MI

TOTAL RAINFALL = 3.28, TOTAL LOSS = 2.15, TOTAL EXCESS = 1.13

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1593.	12.42	(CFS)	329.	90.	87.	87.
		(INCHES)	1.032	1.128	1.128	1.128
		(AC-FT)	163.	178.	178.	178.

CUMULATIVE AREA = 2.96 SQ MI

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INTERPOLATED HYDROGRAPH AT T1

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	13.	1		1230	151	2172.	1		1845	226	14.
1		0005	2	0.	1		0620	77	13.	1		1235	152	2063.	1		1850	227	14.
1		0010	3	0.	1		0625	78	13.	1		1240	153	1850.	1		1855	228	14.
1		0015	4	0.	1		0630	79	13.	1		1245	154	1541.	1		1900	229	14.
1		0020	5	1.	1		0635	80	13.	1		1250	155	1383.	1		1905	230	14.
1		0025	6	1.	1		0640	81	14.	1		1255	156	1251.	1		1910	231	13.
1		0030	7	1.	1		0645	82	14.	1		1300	157	1119.	1		1915	232	13.
1		0035	8	2.	1		0650	83	14.	1		1305	158	1000.	1		1920	233	13.
1		0040	9	3.	1		0655	84	14.	1		1310	159	890.	1		1925	234	13.
1		0045	10	4.	1		0700	85	14.	1		1315	160	789.	1		1930	235	13.
1		0050	11	4.	1		0705	86	14.	1		1320	161	697.	1		1935	236	13.
1		0055	12	5.	1		0710	87	14.	1		1325	162	614.	1		1940	237	13.
1		0100	13	5.	1		0715	88	14.	1		1330	163	552.	1		1945	238	13.
1		0105	14	6.	1		0720	89	14.	1		1335	164	491.	1		1950	239	13.
1		0110	15	6.	1		0725	90	14.	1		1340	165	437.e	1		1955	240	13.
1		0115	16	6.	1		0730	91	15.	1		1345	166	380.	1		2000	241	13.
1		0120	17	7.	1		0735	92	15.	1		1350	167	338.	1		2005	242	12.
1		0125	18	7.	1		0740	93	15.	1		1355	168	309.	1		2010	243	12.
1		0130	19	7.	1		0745	94	16.	1		1400	169	273.	1		2015	244	12.
1		0135	20	7.	1		0750	95	16.	1		1405	170	244.	1		2020	245	12.
1		0140	21	7.	1		0755	96	16.	1		1410	171	215.	1		2025	246	12.
1		0145	22	8.	1		0800	97	16.	1		1415	172	200.	1		2030	247	12.
1		0150	23	8.	1		0805	98	16.	1		1420	173	180.	1		2035	248	12.
1		0155	24	8.	1		0810	99	16.	1		1425	174	154.	1		2040	249	12.
1		0200	25	8.	1		0815	100	17.	1		1430	175	140.	1		2045	250	11.
1		0205	26	8.	1		0820	101	17.	1		1435	176	125.	1		2050	251	11.
1		0210	27	8.	1		0825	102	17.	1		1440	177	110.	1		2055	252	11.
1		0215	28	8.	1		0830	103	17.	1		1445	178	95.	1		2100	253	11.
1		0220	29	9.	1		0835	104	18.	1		1450	179	87.	1		2105	254	11.
1		0225	30	9.	1		0840	105	18.	1		1455	180	86.	1		2110	255	11.
1		0230	31	9.	1		0845	106	18.	1		1500	181	85.	1		2115	256	11.
1		0235	32	9.	1		0850	107	19.	1		1505	182	84.	1		2120	257	11.
1		0240	33	9.	1		0855	108	19.	1		1510	183	82.	1		2125	258	11.
1		0245	34	9.	1		0900	109	19.	1		1515	184	81.	1		2130	259	11.
1		0250	35	9.	1		0905	110	20.	1		1520	185	72.	1		2135	260	11.
1		0255	36	9.	1		0910	111	20.	1		1525	186	63.	1		2140	261	11.
1		0300	37	9.	1		0915	112	20.	1		1530	187	54.	1		2145	262	11.
1		0305	38	10.	1		0920	113	21.	1		1535	188	45.	1		2150	263	11.
1		0310	39	10.	1		0925	114	21.	1		1540	189	36.	1		2155	264	11.
1		0315	40	10.	1		0930	115	21.	1		1545	190	27.	1		2200	265	10.
1		0320	41	10.	1		0935	116	22.	1		1550	191	26.	1		2205	266	10.
1		0325	42	10.	1		0940	117	22.	1		1555	192	26.	1		2210	267	10.
1		0330	43	10.	1		0945	118	23.	1		1600	193	25.	1		2215	268	10.
1		0335	44	10.	1		0950	119	23.	1		1605	194	24.	1		2220	269	10.
1		0340	45	10.	1		0955	120	24.	1		1610	195	23.	1		2225	270	10.
1		0345	46	10.	1		1000	121	24.	1		1615	196	22.	1		2230	271	10.
1		0350	47	10.	1		1005	122	25.	1		1620	197	22.	1		2235	272	10.
1		0355	48	10.	1		1010	123	25.	1		1625	198	21.	1		2240	273	10.
1		0400	49	10.	1		1015	124	26.	1		1630	199	21.	1		2245	274	10.
1		0405	50	10.	1		1020	125	26.	1		1635	200	21.	1		2250	275	10.
1		0410	51	10.	1		1025	126	27.	1		1640	201	20.	1		2255	276	10.
1		0415	52	10.	1		1030	127	28.	1		1645	202	20.	1		2300	277	9.
1		0420	53	11.	1		1035	128	29.	1		1650	203	19.	1		2305	278	9.
1		0425	54	11.	1		1040	129	30.	1		1655	204	19.	1		2310	279	9.
1		0430	55	11.	1		1045	130	31.	1		1700	205	19.	1		2315	280	9.
1		0435	56	11.	1		1050	131	32.	1		1705	206	19.	1		2320	281	9.

1	0440	57	11.	*	1	1055	132	33.	*	1	1710	207	19.	*	1	2325	282	9.
1	0445	58	11.	*	1	1100	133	35.	*	1	1715	208	18.	*	1	2330	283	9.
1	0450	59	11.	*	1	1105	134	36.	*	1	1720	209	18.	*	1	2335	284	9.
1	0455	60	12.	*	1	1110	135	38.	*	1	1725	210	18.	*	1	2340	285	9.
1	0500	61	12.	*	1	1115	136	40.	*	1	1730	211	18.	*	1	2345	286	9.
1	0505	62	12.	*	1	1120	137	42.	*	1	1735	212	18.	*	1	2350	287	9.
1	0510	63	11.	*	1	1125	138	45.	*	1	1740	213	17.	*	1	2355	288	9.
1	0515	64	11.	*	1	1130	139	47.	*	1	1745	214	17.	*	2	0000	289	9.
1	0520	65	11.	*	1	1135	140	92.	*	1	1750	215	17.	*	2	0005	290	9.
1	0525	66	12.	*	1	1140	141	138.	*	1	1755	216	17.	*	2	0010	291	9.
1	0530	67	12.	*	1	1145	142	244.	*	1	1800	217	16.	*	2	0015	292	8.
1	0535	68	12.	*	1	1150	143	420.	*	1	1805	218	16.	*	2	0020	293	8.
1	0540	69	12.	*	1	1155	144	670.	*	1	1810	219	16.	*	2	0025	294	7.
1	0545	70	12.	*	1	1200	145	967.	*	1	1815	220	16.	*	2	0030	295	7.
1	0550	71	12.	*	1	1205	146	1262.	*	1	1820	221	15.	*	2	0035	296	6.
1	0555	72	12.	*	1	1210	147	1642.	*	1	1825	222	15.	*	2	0040	297	6.
1	0600	73	12.	*	1	1215	148	2034.	*	1	1830	223	15.	*	2	0045	298	5.
1	0605	74	13.	*	1	1220	149	2186.	*	1	1835	224	15.	*	2	0050	299	4.
1	0610	75	13.	*	1	1225	150	2214.	*	1	1840	225	14.	*	2	0055	300	4.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
2214.	12.42	(CFS)	458.	124.	120.	120.
		(INCHES)	1.438	1.558	1.559	1.559
		(AC-FT)	227.	246.	246.	246.

CUMULATIVE AREA = 2.96 SQ MI

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          **************
          *            *
937 KK    *       U1   *
          *            *
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BASIN U1
THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
L= 2.1 Lca= 1.1 S= 377.0 Kn= .050 LAG= 32.0
PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN

942 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

SUBBASIN RUNOFF DATA

943 BA SUBBASIN CHARACTERISTICS

TAREA 1.39 SUBBASIN AREA

944 LG GREEN AND AMPT LOSS RATE

STRTL	.26	STARTING LOSS
DTH	.37	MOISTURE DEFICIT
PSIF	4.74	WETTING FRONT SUCTION
XKSAT	.22	HYDRAULIC CONDUCTIVITY
RTIMP	8.00	PERCENT IMPERVIOUS AREA

943 UI INPUT UNITGRAPH, 29 ORDINATES, VOLUME = 1.00

147.0	294.0	688.0	987.0	1245.0	1598.0	1002.0	831.0	714.0	602.0
493.0	381.0	338.0	278.0	212.0	177.0	159.0	112.0	107.0	72.0
72.0	67.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	

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HYDROGRAPH AT STATION U1
TRANSPOSITION AREA .0 SQ MI

TOTAL RAINFALL = 4.20, TOTAL LOSS = 2.62, TOTAL EXCESS = 1.58

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
1434.	12.25	(CFS)	222.	59.	57.	57.
		(INCHES)	1.484	1.582	1.583	1.583
		(AC-FT)	110.	117.	117.	117.

CUMULATIVE AREA = 1.39 SQ MI

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HYDROGRAPH AT STATION U1
TRANSPOSITION AREA 5.0 SQ MI

TOTAL RAINFALL = 4.12, TOTAL LOSS = 2.58, TOTAL EXCESS = 1.54

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
1397.	12.25	(CFS)	216.	57.	55.	55.
		(INCHES)	1.442	1.538	1.538	1.538
		(AC-FT)	107.	114.	114.	114.

CUMULATIVE AREA = 1.39 SQ MI

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HYDROGRAPH AT STATION U1
TRANSPOSITION AREA 10.0 SQ MI

TOTAL RAINFALL = 3.99, TOTAL LOSS = 2.53, TOTAL EXCESS = 1.46

K FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
1336.	12.25	(CFS)	205.	55.	53.	53.
		(INCHES)	1.371	1.465	1.465	1.465
		(AC-FT)	102.	109.	109.	109.

CUMULATIVE AREA = 1.39 SQ MI

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HYDROGRAPH AT STATION U1
TRANSPOSITION AREA 50.0 SQ MI

TOTAL RAINFALL = 3.70, TOTAL LOSS = 2.40, TOTAL EXCESS = 1.30

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1200.	12.25	(CFS)	182.	49.	47.	47.
		(INCHES)	1.217	1.303	1.304	1.304
		(AC-FT)	90.	97.	97.	97.

CUMULATIVE AREA = 1.39 SQ MI

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HYDROGRAPH AT STATION U1
TRANSPOSITION AREA 100.0 SQ MI

TOTAL RAINFALL = 3.57, TOTAL LOSS = 2.33, TOTAL EXCESS = 1.24

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1140.	12.25	(CFS)	172.	46.	45.	45.
		(INCHES)	1.154	1.237	1.238	1.238
		(AC-FT)	86.	92.	92.	92.

CUMULATIVE AREA = 1.39 SQ MI

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

HYDROGRAPH AT STATION U1
TRANSPOSITION AREA 500.0 SQ MI

TOTAL RAINFALL = 3.28, TOTAL LOSS = 2.18, TOTAL EXCESS = 1.10

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1005.	12.25	(CFS)	152.	41.	39.	39.
		(INCHES)	1.019	1.095	1.096	1.096
		(AC-FT)	76.	81.	81.	81.

CUMULATIVE AREA = 1.39 SQ MI

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INTERPOLATED HYDROGRAPH AT U1

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DA MON HRMN	ORD	FLOW	*	DA MON HRMN	ORD	FLOW	*	DA MON HRMN	ORD	FLOW	*	DA MON HRMN	ORD	FLOW

1	0000	1	0.	*	1	0615	76	5.	*	1	1230	151	929.	*	1	1845	226	5.
1	0005	2	0.	*	1	0620	77	5.	*	1	1235	152	794.	*	1	1850	227	5.
1	0010	3	0.	*	1	0625	78	5.	*	1	1240	153	681.	*	1	1855	228	5.
1	0015	4	0.	*	1	0630	79	5.	*	1	1245	154	575.	*	1	1900	229	5.
1	0020	5	1.	*	1	0635	80	5.	*	1	1250	155	481.	*	1	1905	230	5.
1	0025	6	1.	*	1	0640	81	5.	*	1	1255	156	402.	*	1	1910	231	5.
1	0030	7	1.	*	1	0645	82	5.	*	1	1300	157	333.	*	1	1915	232	5.
1	0035	8	2.	*	1	0650	83	5.	*	1	1305	158	277.	*	1	1920	233	5.
1	0040	9	2.	*	1	0655	84	5.	*	1	1310	159	228.	*	1	1925	234	5.
1	0045	10	2.	*	1	0700	85	5.	*	1	1315	160	193.	*	1	1930	235	5.
1	0050	11	2.	*	1	0705	86	5.	*	1	1320	161	165.	*	1	1935	236	5.
1	0055	12	3.	*	1	0710	87	5.	*	1	1325	162	133.	*	1	1940	237	5.
1	0100	13	3.	*	1	0715	88	5.	*	1	1330	163	111.	*	1	1945	238	5.
1	0105	14	3.	*	1	0720	89	6.	*	1	1335	164	92.	*	1	1950	239	5.
1	0110	15	3.	*	1	0725	90	6.	*	1	1340	165	80.	*	1	1955	240	5.
1	0115	16	3.	*	1	0730	91	6.	*	1	1345	166	68.	*	1	2000	241	4.
1	0120	17	3.	*	1	0735	92	6.	*	1	1350	167	58.	*	1	2005	242	4.
1	0125	18	3.	*	1	0740	93	6.	*	1	1355	168	56.	*	1	2010	243	4.
1	0130	19	3.	*	1	0745	94	6.	*	1	1400	169	49.	*	1	2015	244	4.
1	0135	20	3.	*	1	0750	95	6.	*	1	1405	170	42.	*	1	2020	245	4.
1	0140	21	3.	*	1	0755	96	6.	*	1	1410	171	35.	*	1	2025	246	4.
1	0145	22	3.	*	1	0800	97	6.	*	1	1415	172	28.	*	1	2030	247	4.
1	0150	23	3.	*	1	0805	98	6.	*	1	1420	173	21.	*	1	2035	248	4.
1	0155	24	3.	*	1	0810	99	6.	*	1	1425	174	14.	*	1	2040	249	4.
1	0200	25	3.	*	1	0815	100	7.	*	1	1430	175	14.	*	1	2045	250	4.
1	0205	26	3.	*	1	0820	101	7.	*	1	1435	176	13.	*	1	2050	251	4.
1	0210	27	3.	*	1	0825	102	7.	*	1	1440	177	13.	*	1	2055	252	4.
1	0215	28	3.	*	1	0830	103	7.	*	1	1445	178	12.	*	1	2100	253	4.
1	0220	29	3.	*	1	0835	104	7.	*	1	1450	179	12.	*	1	2105	254	4.
1	0225	30	3.	*	1	0840	105	7.	*	1	1455	180	11.	*	1	2110	255	4.
1	0230	31	3.	*	1	0845	106	7.	*	1	1500	181	11.	*	1	2115	256	4.
1	0235	32	4.	*	1	0850	107	8.	*	1	1505	182	10.	*	1	2120	257	4.
1	0240	33	4.	*	1	0855	108	8.	*	1	1510	183	10.	*	1	2125	258	4.
1	0245	34	4.	*	1	0900	109	8.	*	1	1515	184	10.	*	1	2130	259	4.
1	0250	35	4.	*	1	0905	110	8.	*	1	1520	185	10.	*	1	2135	260	4.
1	0255	36	4.	*	1	0910	111	8.	*	1	1525	186	10.	*	1	2140	261	4.
1	0300	37	4.	*	1	0915	112	8.	*	1	1530	187	9.	*	1	2145	262	4.
1	0305	38	4.	*	1	0920	113	8.	*	1	1535	188	9.	*	1	2150	263	4.
1	0310	39	4.	*	1	0925	114	8.	*	1	1540	189	9.	*	1	2155	264	4.
1	0315	40	4.	*	1	0930	115	9.	*	1	1545	190	9.	*	1	2200	265	4.
1	0320	41	4.	*	1	0935	116	9.	*	1	1550	191	9.	*	1	2205	266	4.
1	0325	42	4.	*	1	0940	117	9.	*	1	1555	192	8.	*	1	2210	267	4.
1	0330	43	4.	*	1	0945	118	9.	*	1	1600	193	8.	*	1	2215	268	4.
1	0335	44	4.	*	1	0950	119	9.	*	1	1605	194	8.	*	1	2220	269	4.
1	0340	45	4.	*	1	0955	120	10.	*	1	1610	195	8.	*	1	2225	270	4.
1	0345	46	4.	*	1	1000	121	10.	*	1	1615	196	8.	*	1	2230	271	4.
1	0350	47	4.	*	1	1005	122	10.	*	1	1620	197	7.	*	1	2235	272	4.
1	0355	48	4.	*	1	1010	123	10.	*	1	1625	198	7.	*	1	2240	273	4.
1	0400	49	4.	*	1	1015	124	11.	*	1	1630	199	7.	*	1	2245	274	4.
1	0405	50	4.	*	1	1020	125	11.	*	1	1635	200	7.	*	1	2250	275	3.
1	0410	51	4.	*	1	1025	126	11.	*	1	1640	201	7.	*	1	2255	276	3.
1	0415	52	4.	*	1	1030	127	12.	*	1	1645	202	7.	*	1	2300	277	3.
1	0420	53	4.	*	1	1035	128	12.	*	1	1650	203	7.	*	1	2305	278	3.
1	0425	54	4.	*	1	1040	129	13.	*	1	1655	204	7.	*	1	2310	279	3.
1	0430	55	4.	*	1	1045	130	13.	*	1	1700	205	7.	*	1	2315	280	3.
1	0435	56	4.	*	1	1050	131	14.	*	1	1705	206	7.	*	1	2320	281	3.
1	0440	57	4.	*	1	1055	132	14.	*	1	1710	207	7.	*	1	2325	282	3.
1	0445	58	4.	*	1	1100	133	15.	*	1	1715	208	7.	*	1	2330	283	3.
1	0450	59	4.	*	1	1105	134	16.	*	1	1720	209	6.	*	1	2335	284	3.
1	0455	60	4.	*	1	1110	135	17.	*	1	1725	210	6.	*	1	2340	285	3.

1	0500	61	4.	*	1	1115	136	18.	*	1	1730	211	6.	*	1	2345	286	3.
1	0505	62	4.	*	1	1120	137	19.	*	1	1735	212	6.	*	1	2350	287	3.
1	0510	63	4.	*	1	1125	138	20.	*	1	1740	213	6.	*	1	2355	288	3.
1	0515	64	4.	*	1	1130	139	22.	*	1	1745	214	6.	*	2	0000	289	3.
1	0520	65	4.	*	1	1135	140	54.	*	1	1750	215	6.	*	2	0005	290	3.
1	0525	66	4.	*	1	1140	141	117.	*	1	1755	216	6.	*	2	0010	291	3.
1	0530	67	4.	*	1	1145	142	264.	*	1	1800	217	6.	*	2	0015	292	3.
1	0535	68	5.	*	1	1150	143	475.	*	1	1805	218	6.	*	2	0020	293	3.
1	0540	69	5.	*	1	1155	144	741.	*	1	1810	219	6.	*	2	0025	294	2.
1	0545	70	5.	*	1	1200	145	1083.	*	1	1815	220	6.	*	2	0030	295	2.
1	0550	71	5.	*	1	1205	146	1270.	*	1	1820	221	5.	*	2	0035	296	1.
1	0555	72	5.	*	1	1210	147	1391.	*	1	1825	222	5.	*	2	0040	297	1.
1	0600	73	5.	*	1	1215	148	1404.	*	1	1830	223	5.	*	2	0045	298	1.
1	0605	74	5.	*	1	1220	149	1330.	*	1	1835	224	5.	*	2	0050	299	1.
1	0610	75	5.	*	1	1225	150	1179.	*	1	1840	225	5.	*	2	0055	300	1.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
1404.	12.25	(CFS)	217.	58.	56.	56.
		(INCHES)	1.450	1.547	1.548	1.548
		(AC-FT)	108.	115.	115.	115.

CUMULATIVE AREA = 1.39 SQ MI

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          **************
          *            *
950 KK    *     BES2E  *        BUCKEYE STRUCTURE NO. 2 - EASTERN OR UPPER PORTION
          *            *
          **************
                         Combining  R1 & S1 & T1 & U1

952 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          2  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL          0.  HYDROGRAPH PLOT SCALE
                     IPNCH          0  PUNCH COMPUTED HYDROGRAPH
                      IOUT         22  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


953 HC          HYDROGRAPH COMBINATION
                     ICOMP          4  NUMBER OF HYDROGRAPHS TO COMBINE

                                                  ***

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

                       HYDROGRAPH AT STATION    BES2E
                      TRANSPOSITION AREA       .0 SQ MI
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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
5182.	12.25	(CFS)	953.	256.	246.	246.
		(INCHES)	1.450	1.555	1.556	1.556
		(AC-FT)	472.	507.	507.	507.

CUMULATIVE AREA = 6.11 SQ MI

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

HYDROGRAPH AT STATION BES2E
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
5047.	12.25	(CFS)	925.	248.	239.	239.
		(INCHES)	1.408	1.512	1.512	1.512
		(AC-FT)	459.	493.	493.	493.

CUMULATIVE AREA = 6.11 SQ MI

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

HYDROGRAPH AT STATION BES2E
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
4828.	12.25	(CFS)	881.	237.	228.	228.
		(INCHES)	1.341	1.442	1.442	1.442
		(AC-FT)	437.	470.	470.	470.

CUMULATIVE AREA = 6.11 SQ MI

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

HYDROGRAPH AT STATION BES2E
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
4339.	12.25	(CFS)	790.	213.	205.	205.
		(INCHES)	1.201	1.295	1.295	1.295
		(AC-FT)	392.	422.	422.	422.

CUMULATIVE AREA = 6.11 SQ MI

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

HYDROGRAPH AT STATION BES2E
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
4119.	12.25	(CFS)	750.	202.	195.	195.
		(INCHES)	1.141	1.231	1.232	1.232

(AC-FT)	372.	401.	401.	401.

CUMULATIVE AREA = 6.11 SQ MI

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HYDROGRAPH AT STATION BES2E
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)					
3622.	12.25	(CFS)	662.	179.	173.	173.
		(INCHES)	1.007	1.090	1.090	1.090
		(AC-FT)	328.	355.	355.	355.

CUMULATIVE AREA = 6.11 SQ MI

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INTERPOLATED HYDROGRAPH AT BES2E

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	23.	*	1		1230	151	4039.	*	1		1845	226	24.
1		0005	2	0.	*	1		0620	77	24.	*	1		1235	152	3628.	*	1		1850	227	24.
1		0010	3	0.	*	1		0625	78	24.	*	1		1240	153	3179.	*	1		1855	228	24.
1		0015	4	1.	*	1		0630	79	24.	*	1		1245	154	2653.	*	1		1900	229	24.
1		0020	5	2.	*	1		0635	80	24.	*	1		1250	155	2303.	*	1		1905	230	23.
1		0025	6	3.	*	1		0640	81	24.	*	1		1255	156	2013.	*	1		1910	231	23.
1		0030	7	4.	*	1		0645	82	24.	*	1		1300	157	1751.	*	1		1915	232	23.
1		0035	8	6.	*	1		0650	83	24.	*	1		1305	158	1526.	*	1		1920	233	23.
1		0040	9	7.	*	1		0655	84	25.	*	1		1310	159	1319.	*	1		1925	234	23.
1		0045	10	8.	*	1		0700	85	25.	*	1		1315	160	1149.	*	1		1930	235	23.
1		0050	11	9.	*	1		0705	86	25.	*	1		1320	161	1006.	*	1		1935	236	23.
1		0055	12	10.	*	1		0710	87	25.	*	1		1325	162	869.	*	1		1940	237	23.
1		0100	13	11.	*	1		0715	88	25.	*	1		1330	163	763.	*	1		1945	238	22.
1		0105	14	12.	*	1		0720	89	26.	*	1		1335	164	666.	*	1		1950	239	22.
1		0110	15	12.	*	1		0725	90	26.	*	1		1340	165	587.	*	1		1955	240	22.
1		0115	16	13.	*	1		0730	91	27.	*	1		1345	166	509.	*	1		2000	241	22.
1		0120	17	13.	*	1		0735	92	27.	*	1		1350	167	448.	*	1		2005	242	21.
1		0125	18	13.	*	1		0740	93	28.	*	1		1355	168	412.	*	1		2010	243	21.
1		0130	19	13.	*	1		0745	94	28.	*	1		1400	169	369.	*	1		2015	244	21.
1		0135	20	14.	*	1		0750	95	28.	*	1		1405	170	327.	*	1		2020	245	21.
1		0140	21	14.	*	1		0755	96	29.	*	1		1410	171	285.	*	1		2025	246	20.
1		0145	22	14.	*	1		0800	97	29.	*	1		1415	172	257.	*	1		2030	247	20.
1		0150	23	14.	*	1		0805	98	29.	*	1		1420	173	224.	*	1		2035	248	20.
1		0155	24	14.	*	1		0810	99	30.	*	1		1425	174	186.	*	1		2040	249	20.
1		0200	25	15.	*	1		0815	100	30.	*	1		1430	175	164.	*	1		2045	250	20.
1		0205	26	15.	*	1		0820	101	30.	*	1		1435	176	149.	*	1		2050	251	20.
1		0210	27	15.	*	1		0825	102	31.	*	1		1440	177	133.	*	1		2055	252	19.
1		0215	28	15.	*	1		0830	103	32.	*	1		1445	178	118.	*	1		2100	253	19.
1		0220	29	16.	*	1		0835	104	32.	*	1		1450	179	109.	*	1		2105	254	19.
1		0225	30	16.	*	1		0840	105	33.	*	1		1455	180	107.	*	1		2110	255	18.
1		0230	31	16.	*	1		0845	106	33.	*	1		1500	181	105.	*	1		2115	256	18.
1		0235	32	16.	*	1		0850	107	34.	*	1		1505	182	104.	*	1		2120	257	18.
1		0240	33	16.	*	1		0855	108	35.	*	1		1510	183	102.	*	1		2125	258	18.

1	0245	34	16.	*	1	0900	109	35.	*	1	1515	184	100.	*	1	2130	259	18.
1	0250	35	17.	*	1	0905	110	36.	*	1	1520	185	91.	*	1	2135	260	19.
1	0255	36	17.	*	1	0910	111	36.	*	1	1525	186	82.	*	1	2140	261	19.
1	0300	37	17.	*	1	0915	112	37.	*	1	1530	187	72.	*	1	2145	262	19.
1	0305	38	17.	*	1	0920	113	38.	*	1	1535	188	63.	*	1	2150	263	19.
1	0310	39	18.	*	1	0925	114	38.	*	1	1540	189	54.	*	1	2155	264	18.
1	0315	40	18.	*	1	0930	115	39.	*	1	1545	190	45.	*	1	2200	265	18.
1	0320	41	18.	*	1	0935	116	40.	*	1	1550	191	43.	*	1	2205	266	18.
1	0325	42	18.	*	1	0940	117	41.	*	1	1555	192	42.	*	1	2210	267	18.
1	0330	43	18.	*	1	0945	118	41.	*	1	1600	193	41.	*	1	2215	268	18.
1	0335	44	18.	*	1	0950	119	42.	*	1	1605	194	40.	*	1	2220	269	18.
1	0340	45	18.	*	1	0955	120	43.	*	1	1610	195	39.	*	1	2225	270	17.
1	0345	46	18.	*	1	1000	121	44.	*	1	1615	196	38.	*	1	2230	271	17.
1	0350	47	18.	*	1	1005	122	45.	*	1	1620	197	37.	*	1	2235	272	17.
1	0355	48	18.	*	1	1010	123	46.	*	1	1625	198	36.	*	1	2240	273	17.
1	0400	49	18.	*	1	1015	124	47.	*	1	1630	199	35.	*	1	2245	274	17.
1	0405	50	18.	*	1	1020	125	49.	*	1	1635	200	35.	*	1	2250	275	17.
1	0410	51	18.	*	1	1025	126	50.	*	1	1640	201	34.	*	1	2255	276	16.
1	0415	52	19.	*	1	1030	127	52.	*	1	1645	202	34.	*	1	2300	277	16.
1	0420	53	19.	*	1	1035	128	54.	*	1	1650	203	33.	*	1	2305	278	16.
1	0425	54	19.	*	1	1040	129	56.	*	1	1655	204	33.	*	1	2310	279	16.
1	0430	55	20.	*	1	1045	130	58.	*	1	1700	205	33.	*	1	2315	280	15.
1	0435	56	20.	*	1	1050	131	60.	*	1	1705	206	32.	*	1	2320	281	15.
1	0440	57	20.	*	1	1055	132	63.	*	1	1710	207	32.	*	1	2325	282	16.
1	0445	58	20.	*	1	1100	133	66.	*	1	1715	208	32.	*	1	2330	283	16.
1	0450	59	20.	*	1	1105	134	69.	*	1	1720	209	31.	*	1	2335	284	16.
1	0455	60	20.	*	1	1110	135	72.	*	1	1725	210	31.	*	1	2340	285	16.
1	0500	61	20.	*	1	1115	136	77.	*	1	1730	211	30.	*	1	2345	286	16.
1	0505	62	20.	*	1	1120	137	82.	*	1	1735	212	30.	*	1	2350	287	16.
1	0510	63	20.	*	1	1125	138	87.	*	1	1740	213	30.	*	1	2355	288	16.
1	0515	64	20.	*	1	1130	139	93.	*	1	1745	214	29.	*	2	0000	289	15.
1	0520	65	20.	*	1	1135	140	217.	*	1	1750	215	29.	*	2	0005	290	15.
1	0525	66	20.	*	1	1140	141	451.	*	1	1755	216	28.	*	2	0010	291	15.
1	0530	67	21.	*	1	1145	142	950.	*	1	1800	217	28.	*	2	0015	292	14.
1	0535	68	21.	*	1	1150	143	1607.	*	1	1805	218	28.	*	2	0020	293	13.
1	0540	69	21.	*	1	1155	144	2418.	*	1	1810	219	27.	*	2	0025	294	12.
1	0545	70	21.	*	1	1200	145	3427.	*	1	1815	220	27.	*	2	0030	295	10.
1	0550	71	22.	*	1	1205	146	4106.	*	1	1820	221	26.	*	2	0035	296	9.
1	0555	72	22.	*	1	1210	147	4672.	*	1	1825	222	26.	*	2	0040	297	8.
1	0600	73	22.	*	1	1215	148	4984.	*	1	1830	223	25.	*	2	0045	298	6.
1	0605	74	23.	*	1	1220	149	4925.	*	1	1835	224	25.	*	2	0050	299	6.
1	0610	75	23.	*	1	1225	150	4618.	*	1	1840	225	25.	*	2	0055	300	5.
				*					*					*				

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
4984.	12.25	(CFS)	912.	245.	236.	236.
		(INCHES)	1.388	1.491	1.492	1.492
		(AC-FT)	452.	486.	486.	486.

CUMULATIVE AREA = 6.11 SQ MI

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         *           *
954 KK   *     BES2  *       BUCKEYE STRUCTURE NO. 2 - COMBINED
         *           *
         ***************
                        Combining BES2W & BES2E

956 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          2  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL          0.  HYDROGRAPH PLOT SCALE
                     IPNCH          0  PUNCH COMPUTED HYDROGRAPH
                      IOUT         22  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

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

957 HC          HYDROGRAPH COMBINATION
                     ICOMP          2  NUMBER OF HYDROGRAPHS TO COMBINE

                                                    ***

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

                    HYDROGRAPH AT STATION     BES2
                   TRANSPOSITION AREA       .0 SQ MI

PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
  (CFS)       (HR)                  6-HR       24-HR       72-HR     24.92-HR
   9850.      12.67       (CFS)     4569.       1219.       1174.       1174.
                          (INCHES)  1.313       1.401       1.401       1.401
                          (AC-FT)   2266.       2418.       2418.       2418.

                    CUMULATIVE AREA =   32.36 SQ MI


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

                    HYDROGRAPH AT STATION     BES2
                   TRANSPOSITION AREA      5.0 SQ MI

PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
  (CFS)       (HR)                  6-HR       24-HR       72-HR     24.92-HR
   9558.      12.67       (CFS)     4439.       1185.       1142.       1142.
                          (INCHES)  1.275       1.362       1.362       1.362
                          (AC-FT)   2201.       2350.       2351.       2351.

                    CUMULATIVE AREA =   32.36 SQ MI


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

                    HYDROGRAPH AT STATION     BES2
                   TRANSPOSITION AREA     10.0 SQ MI

PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
  (CFS)       (HR)                  6-HR       24-HR       72-HR     24.92-HR
   9088.      12.67       (CFS)     4228.       1130.       1089.       1089.
                          (INCHES)  1.215       1.299       1.299       1.299
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(AC-FT)	2097.	2241.	2242.	2242.

CUMULATIVE AREA = 32.36 SQ MI

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

HYDROGRAPH AT STATION BES2
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
8062.	12.67	(CFS)	3763.	1008.	971.	971.
		(INCHES)	1.081	1.159	1.159	1.159
		(AC-FT)	1866.	2000.	2000.	2000.

CUMULATIVE AREA = 32.36 SQ MI

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

HYDROGRAPH AT STATION BES2
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
7609.	12.67	(CFS)	3554.	954.	919.	919.
		(INCHES)	1.021	1.096	1.096	1.096
		(AC-FT)	1762.	1891.	1892.	1892.

CUMULATIVE AREA = 32.36 SQ MI

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

HYDROGRAPH AT STATION BES2
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
6593.	12.67	(CFS)	3083.	830.	800.	800.
		(INCHES)	.886	.954	.955	.955
		(AC-FT)	1529.	1647.	1648.	1648.

CUMULATIVE AREA = 32.36 SQ MI

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INTERPOLATED HYDROGRAPH AT BES2

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	80.	*	1		1230	151	8148.	*	1		1845	226	129.
1		0005	2	0.	*	1		0620	77	81.	*	1		1235	152	8303.	*	1		1850	227	127.
1		0010	3	1.	*	1		0625	78	82.	*	1		1240	153	8340.	*	1		1855	228	125.
1		0015	4	1.	*	1		0630	79	83.	*	1		1245	154	8251.	*	1		1900	229	123.
1		0020	5	2.	*	1		0635	80	84.	*	1		1250	155	8252.	*	1		1905	230	122.

1	0025	6	4.	*	1	0640	81	85.	*	1	1255	156	8189.	*	1	1910	231	120.
1	0030	7	5.	*	1	0645	82	86.	*	1	1300	157	8092.	*	1	1915	232	118.
1	0035	8	7.	*	1	0650	83	87.	*	1	1305	158	8082.	*	1	1920	233	117.
1	0040	9	8.	*	1	0655	84	88.	*	1	1310	159	8124.	*	1	1925	234	116.
1	0045	10	10.	*	1	0700	85	89.	*	1	1315	160	8147.	*	1	1930	235	115.
1	0050	11	11.	*	1	0705	86	89.	*	1	1320	161	8161.	*	1	1935	236	113.
1	0055	12	13.	*	1	0710	87	90.	*	1	1325	162	8142.	*	1	1940	237	112.
1	0100	13	15.	*	1	0715	88	91.	*	1	1330	163	8103.	*	1	1945	238	111.
1	0105	14	16.	*	1	0720	89	92.	*	1	1335	164	8012.	*	1	1950	239	110.
1	0110	15	18.	*	1	0725	90	93.	*	1	1340	165	7891.	*	1	1955	240	108.
1	0115	16	19.	*	1	0730	91	94.	*	1	1345	166	7776.	*	1	2000	241	107.
1	0120	17	20.	*	1	0735	92	95.	*	1	1350	167	7609.	*	1	2005	242	106.
1	0125	18	21.	*	1	0740	93	96.	*	1	1355	168	7374.	*	1	2010	243	104.
1	0130	19	22.	*	1	0745	94	97.	*	1	1400	169	7047.	*	1	2015	244	103.
1	0135	20	22.	*	1	0750	95	98.	*	1	1405	170	6699.	*	1	2020	245	102.
1	0140	21	23.	*	1	0755	96	99.	*	1	1410	171	6319.	*	1	2025	246	101.
1	0145	22	24.	*	1	0800	97	100.	*	1	1415	172	5927.	*	1	2030	247	100.
1	0150	23	25.	*	1	0805	98	102.	*	1	1420	173	5522.	*	1	2035	248	98.
1	0155	24	25.	*	1	0810	99	103.	*	1	1425	174	5114.	*	1	2040	249	97.
1	0200	25	26.	*	1	0815	100	104.	*	1	1430	175	4724.	*	1	2045	250	96.
1	0205	26	27.	*	1	0820	101	105.	*	1	1435	176	4345.	*	1	2050	251	95.
1	0210	27	27.	*	1	0825	102	107.	*	1	1440	177	3989.	*	1	2055	252	94.
1	0215	28	28.	*	1	0830	103	108.	*	1	1445	178	3672.	*	1	2100	253	93.
1	0220	29	29.	*	1	0835	104	109.	*	1	1450	179	3379.	*	1	2105	254	92.
1	0225	30	29.	*	1	0840	105	111.	*	1	1455	180	3108.	*	1	2110	255	91.
1	0230	31	30.	*	1	0845	106	112.	*	1	1500	181	2867.	*	1	2115	256	90.
1	0235	32	30.	*	1	0850	107	114.	*	1	1505	182	2630.	*	1	2120	257	89.
1	0240	33	31.	*	1	0855	108	115.	*	1	1510	183	2391.	*	1	2125	258	88.
1	0245	34	32.	*	1	0900	109	117.	*	1	1515	184	2163.	*	1	2130	259	88.
1	0250	35	32.	*	1	0905	110	118.	*	1	1520	185	1942.	*	1	2135	260	87.
1	0255	36	33.	*	1	0910	111	120.	*	1	1525	186	1744.	*	1	2140	261	87.
1	0300	37	34.	*	1	0915	112	122.	*	1	1530	187	1567.	*	1	2145	262	86.
1	0305	38	34.	*	1	0920	113	123.	*	1	1535	188	1410.	*	1	2150	263	86.
1	0310	39	35.	*	1	0925	114	125.	*	1	1540	189	1245.	*	1	2155	264	85.
1	0315	40	36.	*	1	0930	115	127.	*	1	1545	190	1093.	*	1	2200	265	84.
1	0320	41	36.	*	1	0935	116	129.	*	1	1550	191	977.	*	1	2205	266	84.
1	0325	42	36.	*	1	0940	117	132.	*	1	1555	192	882.	*	1	2210	267	83.
1	0330	43	37.	*	1	0945	118	134.	*	1	1600	193	800.	*	1	2215	268	82.
1	0335	44	37.	*	1	0950	119	136.	*	1	1605	194	718.	*	1	2220	269	82.
1	0340	45	38.	*	1	0955	120	139.	*	1	1610	195	653.	*	1	2225	270	81.
1	0345	46	38.	*	1	1000	121	141.	*	1	1615	196	591.	*	1	2230	271	80.
1	0350	47	38.	*	1	1005	122	144.	*	1	1620	197	532.	*	1	2235	272	79.
1	0355	48	39.	*	1	1010	123	147.	*	1	1625	198	480.	*	1	2240	273	79.
1	0400	49	40.	*	1	1015	124	150.	*	1	1630	199	433.	*	1	2245	274	78.
1	0405	50	41.	*	1	1020	125	153.	*	1	1635	200	395.	*	1	2250	275	77.
1	0410	51	42.	*	1	1025	126	156.	*	1	1640	201	375.	*	1	2255	276	76.
1	0415	52	44.	*	1	1030	127	160.	*	1	1645	202	357.	*	1	2300	277	76.
1	0420	53	47.	*	1	1035	128	164.	*	1	1650	203	340.	*	1	2305	278	75.
1	0425	54	50.	*	1	1040	129	168.	*	1	1655	204	323.	*	1	2310	279	74.
1	0430	55	55.	*	1	1045	130	172.	*	1	1700	205	307.	*	1	2315	280	74.
1	0435	56	58.	*	1	1050	131	177.	*	1	1705	206	298.	*	1	2320	281	73.
1	0440	57	61.	*	1	1055	132	183.	*	1	1710	207	290.	*	1	2325	282	73.
1	0445	58	63.	*	1	1100	133	189.	*	1	1715	208	283.	*	1	2330	283	72.
1	0450	59	65.	*	1	1105	134	195.	*	1	1720	209	276.	*	1	2335	284	72.
1	0455	60	66.	*	1	1110	135	201.	*	1	1725	210	270.	*	1	2340	285	72.
1	0500	61	67.	*	1	1115	136	209.	*	1	1730	211	264.	*	1	2345	286	72.
1	0505	62	68.	*	1	1120	137	218.	*	1	1735	212	248.	*	1	2350	287	71.
1	0510	63	69.	*	1	1125	138	228.	*	1	1740	213	232.	*	1	2355	288	71.
1	0515	64	70.	*	1	1130	139	239.	*	1	1745	214	215.	*	2	0000	289	71.
1	0520	65	71.	*	1	1135	140	448.	*	1	1750	215	198.	*	2	0005	290	70.

1	0525	66	71.	*	1	1140	141	757.	*	1	1755	216	181.	*	2	0010	291	69.
1	0530	67	72.	*	1	1145	142	1326.	*	1	1800	217	163.	*	2	0015	292	68.
1	0535	68	73.	*	1	1150	143	2113.	*	1	1805	218	157.	*	2	0020	293	67.
1	0540	69	74.	*	1	1155	144	3095.	*	1	1810	219	152.	*	2	0025	294	65.
1	0545	70	75.	*	1	1200	145	4351.	*	1	1815	220	147.	*	2	0030	295	63.
1	0550	71	75.	*	1	1205	146	5305.	*	1	1820	221	143.	*	2	0035	296	61.
1	0555	72	76.	*	1	1210	147	6245.	*	1	1825	222	139.	*	2	0040	297	59.
1	0600	73	77.	*	1	1215	148	7042.	*	1	1830	223	136.	*	2	0045	298	57.
1	0605	74	78.	*	1	1220	149	7582.	*	1	1835	224	134.	*	2	0050	299	56.
1	0610	75	79.	*	1	1225	150	8000.	*	1	1840	225	131.	*	2	0055	300	54.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
8340.	12.67	(CFS)	3889.	1041.	1003.	1003.
		(INCHES)	1.117	1.197	1.197	1.197
		(AC-FT)	1928.	2065.	2065.	2065.

CUMULATIVE AREA = 32.36 SQ MI

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          **************
          *            *
KK        *        V1  *
          *            *
          **************
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BASIN V1
THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
L= 2.7 Lca= 1.6 S= 389.0 Kn= .050 LAG= 40.0
PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN

964 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

SUBBASIN RUNOFF DATA

965 BA SUBBASIN CHARACTERISTICS

TAREA	.70	SUBBASIN AREA

966 LG GREEN AND AMPT LOSS RATE

STRTL	.26	STARTING LOSS
DTH	.35	MOISTURE DEFICIT
PSIF	4.24	WETTING FRONT SUCTION
XKSAT	.41	HYDRAULIC CONDUCTIVITY
RTIMP	13.00	PERCENT IMPERVIOUS AREA

965 UI INPUT UNITGRAPH, 36 ORDINATES, VOLUME = 1.00

59.0	76.0	200.0	320.0	406.0	481.0	660.0	503.0	372.0	329.0
290.0	254.0	221.0	183.0	150.0	138.0	123.0	97.0	77.0	70.0
64.0	49.0	45.0	39.0	29.0	29.0	29.0	18.0	11.0	11.0
11.0	11.0	11.0	11.0	11.0	11.0				

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HYDROGRAPH AT STATION V1
TRANSPOSITION AREA .0 SQ MI

TOTAL RAINFALL = 4.20, TOTAL LOSS = 2.67, TOTAL EXCESS = 1.53

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
558.	12.33	(CFS)	102.	29.	28.	28.
		(INCHES)	1.360	1.519	1.520	1.520
		(AC-FT)	51.	57.	57.	57.

CUMULATIVE AREA = .70 SQ MI

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

HYDROGRAPH AT STATION V1
TRANSPOSITION AREA 5.0 SQ MI

TOTAL RAINFALL = 4.12, TOTAL LOSS = 2.63, TOTAL EXCESS = 1.49

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
542.	12.33	(CFS)	100.	28.	27.	27.
		(INCHES)	1.323	1.478	1.479	1.479
		(AC-FT)	49.	55.	55.	55.

CUMULATIVE AREA = .70 SQ MI

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

HYDROGRAPH AT STATION V1
TRANSPOSITION AREA 10.0 SQ MI

TOTAL RAINFALL = 3.99, TOTAL LOSS = 2.57, TOTAL EXCESS = 1.42

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
516.	12.33	(CFS)	95.	27.	26.	26.
		(INCHES)	1.261	1.412	1.413	1.413
		(AC-FT)	47.	53.	53.	53.

CUMULATIVE AREA = .70 SQ MI

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

HYDROGRAPH AT STATION V1
TRANSPOSITION AREA 50.0 SQ MI

TOTAL RAINFALL = 3.70, TOTAL LOSS = 2.43, TOTAL EXCESS = 1.27

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
457.	12.33	(CFS)	84.	24.	23.	23.
		(INCHES)	1.122	1.262	1.263	1.263
		(AC-FT)	42.	47.	47.	47.

CUMULATIVE AREA = .70 SQ MI

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

HYDROGRAPH AT STATION V1
TRANSPOSITION AREA 100.0 SQ MI

TOTAL RAINFALL = 3.57, TOTAL LOSS = 2.37, TOTAL EXCESS = 1.20

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
430.	12.33	(CFS)	80.	22.	22.	22.
		(INCHES)	1.059	1.194	1.195	1.195
		(AC-FT)	40.	45.	45.	45.

CUMULATIVE AREA = .70 SQ MI

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

HYDROGRAPH AT STATION V1
TRANSPOSITION AREA 500.0 SQ MI

TOTAL RAINFALL = 3.28, TOTAL LOSS = 2.23, TOTAL EXCESS = 1.05

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
370.	12.33	(CFS)	69.	20.	19.	19.
		(INCHES)	.917	1.041	1.041	1.041
		(AC-FT)	34.	39.	39.	39.

CUMULATIVE AREA = .70 SQ MI

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INTERPOLATED HYDROGRAPH AT V1

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	4.	1		1230	151	486.	1		1845	226	4.
1		0005	2	0.	1		0620	77	4.	1		1235	152	403.	1		1850	227	4.
1		0010	3	0.	1		0625	78	4.	1		1240	153	343.	1		1855	228	4.
1		0015	4	0.	1		0630	79	4.	1		1245	154	301.	1		1900	229	4.
1		0020	5	0.	1		0635	80	4.	1		1250	155	264.	1		1905	230	4.
1		0025	6	0.	1		0640	81	4.	1		1255	156	232.	1		1910	231	4.
1		0030	7	1.	1		0645	82	4.	1		1300	157	201.	1		1915	232	4.
1		0035	8	1.	1		0650	83	4.	1		1305	158	172.	1		1920	233	4.

1	0040	9	1.	*	1	0655	84	4.	*	1	1310	159	149.	*	1	1925	234	4.
1	0045	10	1.	*	1	0700	85	4.	*	1	1315	160	132.	*	1	1930	235	4.
1	0050	11	2.	*	1	0705	86	4.	*	1	1320	161	114.	*	1	1935	236	4.
1	0055	12	2.	*	1	0710	87	4.	*	1	1325	162	98.	*	1	1940	237	4.
1	0100	13	2.	*	1	0715	88	4.	*	1	1330	163	86.	*	1	1945	238	4.
1	0105	14	2.	*	1	0720	89	4.	*	1	1335	164	75.	*	1	1950	239	4.
1	0110	15	2.	*	1	0725	90	5.	*	1	1340	165	67.	*	1	1955	240	4.
1	0115	16	2.	*	1	0730	91	5.	*	1	1345	166	59.	*	1	2000	241	4.
1	0120	17	2.	*	1	0735	92	5.	*	1	1350	167	52.	*	1	2005	242	4.
1	0125	18	2.	*	1	0740	93	5.	*	1	1355	168	45.	*	1	2010	243	4.
1	0130	19	2.	*	1	0745	94	5.	*	1	1400	169	39.	*	1	2015	244	4.
1	0135	20	2.	*	1	0750	95	5.	*	1	1405	170	35.	*	1	2020	245	4.
1	0140	21	2.	*	1	0755	96	5.	*	1	1410	171	31.	*	1	2025	246	4.
1	0145	22	2.	*	1	0800	97	5.	*	1	1415	172	27.	*	1	2030	247	4.
1	0150	23	2.	*	1	0805	98	5.	*	1	1420	173	25.	*	1	2035	248	4.
1	0155	24	3.	*	1	0810	99	5.	*	1	1425	174	24.	*	1	2040	249	3.
1	0200	25	3.	*	1	0815	100	5.	*	1	1430	175	24.	*	1	2045	250	3.
1	0205	26	3.	*	1	0820	101	5.	*	1	1435	176	22.	*	1	2050	251	3.
1	0210	27	3.	*	1	0825	102	5.	*	1	1440	177	19.	*	1	2055	252	3.
1	0215	28	3.	*	1	0830	103	6.	*	1	1445	178	17.	*	1	2100	253	3.
1	0220	29	3.	*	1	0835	104	6.	*	1	1450	179	14.	*	1	2105	254	3.
1	0225	30	3.	*	1	0840	105	6.	*	1	1455	180	12.	*	1	2110	255	3.
1	0230	31	3.	*	1	0845	106	6.	*	1	1500	181	10.	*	1	2115	256	3.
1	0235	32	3.	*	1	0850	107	6.	*	1	1505	182	9.	*	1	2120	257	3.
1	0240	33	3.	*	1	0855	108	6.	*	1	1510	183	9.	*	1	2125	258	3.
1	0245	34	3.	*	1	0900	109	6.	*	1	1515	184	9.	*	1	2130	259	3.
1	0250	35	3.	*	1	0905	110	6.	*	1	1520	185	9.	*	1	2135	260	3.
1	0255	36	3.	*	1	0910	111	6.	*	1	1525	186	8.	*	1	2140	261	3.
1	0300	37	3.	*	1	0915	112	6.	*	1	1530	187	8.	*	1	2145	262	3.
1	0305	38	3.	*	1	0920	113	7.	*	1	1535	188	8.	*	1	2150	263	3.
1	0310	39	3.	*	1	0925	114	7.	*	1	1540	189	8.	*	1	2155	264	3.
1	0315	40	3.	*	1	0930	115	7.	*	1	1545	190	7.	*	1	2200	265	3.
1	0320	41	3.	*	1	0935	116	7.	*	1	1550	191	7.	*	1	2205	266	3.
1	0325	42	3.	*	1	0940	117	7.	*	1	1555	192	7.	*	1	2210	267	3.
1	0330	43	3.	*	1	0945	118	7.	*	1	1600	193	7.	*	1	2215	268	3.
1	0335	44	3.	*	1	0950	119	7.	*	1	1605	194	7.	*	1	2220	269	3.
1	0340	45	3.	*	1	0955	120	8.	*	1	1610	195	7.	*	1	2225	270	3.
1	0345	46	3.	*	1	1000	121	8.	*	1	1615	196	6.	*	1	2230	271	3.
1	0350	47	3.	*	1	1005	122	8.	*	1	1620	197	6.	*	1	2235	272	3.
1	0355	48	3.	*	1	1010	123	8.	*	1	1625	198	6.	*	1	2240	273	3.
1	0400	49	3.	*	1	1015	124	8.	*	1	1630	199	6.	*	1	2245	274	3.
1	0405	50	3.	*	1	1020	125	8.	*	1	1635	200	6.	*	1	2250	275	3.
1	0410	51	3.	*	1	1025	126	9.	*	1	1640	201	6.	*	1	2255	276	3.
1	0415	52	3.	*	1	1030	127	9.	*	1	1645	202	6.	*	1	2300	277	3.
1	0420	53	3.	*	1	1035	128	9.	*	1	1650	203	6.	*	1	2305	278	3.
1	0425	54	3.	*	1	1040	129	10.	*	1	1655	204	6.	*	1	2310	279	3.
1	0430	55	3.	*	1	1045	130	10.	*	1	1700	205	6.	*	1	2315	280	3.
1	0435	56	4.	*	1	1050	131	11.	*	1	1705	206	6.	*	1	2320	281	3.
1	0440	57	4.	*	1	1055	132	11.	*	1	1710	207	6.	*	1	2325	282	3.
1	0445	58	4.	*	1	1100	133	11.	*	1	1715	208	5.	*	1	2330	283	3.
1	0450	59	4.	*	1	1105	134	12.	*	1	1720	209	5.	*	1	2335	284	3.
1	0455	60	4.	*	1	1110	135	13.	*	1	1725	210	5.	*	1	2340	285	3.
1	0500	61	4.	*	1	1115	136	13.	*	1	1730	211	5.	*	1	2345	286	3.
1	0505	62	4.	*	1	1120	137	14.	*	1	1735	212	5.	*	1	2350	287	3.
1	0510	63	4.	*	1	1125	138	15.	*	1	1740	213	5.	*	1	2355	288	3.
1	0515	64	4.	*	1	1130	139	16.	*	1	1745	214	5.	*	2	0000	289	3.
1	0520	65	4.	*	1	1135	140	28.	*	1	1750	215	5.	*	2	0005	290	3.
1	0525	66	4.	*	1	1140	141	43.	*	1	1755	216	5.	*	2	0010	291	3.
1	0530	67	4.	*	1	1145	142	81.	*	1	1800	217	5.	*	2	0015	292	2.
1	0535	68	4.	*	1	1150	143	141.	*	1	1805	218	5.	*	2	0020	293	2.

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   1    0540   69        4.   *   1    1155  144       218.   *   1    1810  219        5.   *   2    0025  294        2.
   1    0545   70        4.   *   1    1200  145       309.   *   1    1815  220        5.   *   2    0030  295        2.
   1    0550   71        4.   *   1    1205  146       423.   *   1    1820  221        5.   *   2    0035  296        2.
   1    0555   72        4.   *   1    1210  147       506.   *   1    1825  222        4.   *   2    0040  297        1.
   1    0600   73        4.   *   1    1215  148       542.   *   1    1830  223        4.   *   2    0045  298        1.
   1    0605   74        4.   *   1    1220  149       547.   *   1    1835  224        4.   *   2    0050  299        1.
   1    0610   75        4.   *   1    1225  150       528.   *   1    1840  225        4.   *   2    0055  300        1.
                            *                                   *                             *
**********************************************************************************************************************************************

 PEAK FLOW     TIME                              MAXIMUM AVERAGE FLOW
   (CFS)       (HR)                    6-HR        24-HR        72-HR      24.92-HR
    547.      12.33          (CFS)      100.         28.          27.          27.
                           (INCHES)    1.335        1.491        1.492        1.492
                            (AC-FT)     50.          56.          56.          56.

                           CUMULATIVE AREA =     .70 SQ MI


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


          **************
          *            *
972 KK    *        W1  *
          *            *
          **************
                     BASIN W1
                      THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
                      L=      3.3  Lca=      1.6   S=  522.0  Kn= .050  LAG=  42.0
                      PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN

977 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL          0.  HYDROGRAPH PLOT SCALE
                      IPNCH          0  PUNCH COMPUTED HYDROGRAPH
                       IOUT         22  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


               SUBBASIN RUNOFF DATA

978 BA          SUBBASIN CHARACTERISTICS
                      TAREA       3.95  SUBBASIN AREA

979 LG          GREEN AND AMPT LOSS RATE
                      STRTL        .30  STARTING LOSS
                        DTH        .35  MOISTURE DEFICIT
                       PSIF       4.24  WETTING FRONT SUCTION
                      XKSAT        .40  HYDRAULIC CONDUCTIVITY
                      RTIMP      15.00  PERCENT IMPERVIOUS AREA

978 UI          INPUT UNITGRAPH,  38 ORDINATES,  VOLUME = 1.00
                   317.0     357.0    1030.0    1615.0    2095.0    2456.0    3182.0    3308.0    2176.0    1862.0
                  1658.0    1480.0    1292.0    1120.0     914.0     790.0     722.0     635.0     518.0     405.0
```

375.0 347.0 270.0 243.0 223.0 155.0 155.0 155.0 129.0 61.0
61.0 61.0 61.0 61.0 61.0 61.0 61.0 61.0

***

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HYDROGRAPH AT STATION W1
TRANSPOSITION AREA .0 SQ MI

TOTAL RAINFALL = 4.20, TOTAL LOSS = 2.61, TOTAL EXCESS = 1.59

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
3095.	12.33	(CFS)	595.	168.	162.	162.
		(INCHES)	1.402	1.585	1.586	1.586
		(AC-FT)	295.	334.	334.	334.

CUMULATIVE AREA = 3.95 SQ MI

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

HYDROGRAPH AT STATION W1
TRANSPOSITION AREA 5.0 SQ MI

TOTAL RAINFALL = 4.12, TOTAL LOSS = 2.57, TOTAL EXCESS = 1.55

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
3007.	12.33	(CFS)	579.	164.	158.	158.
		(INCHES)	1.363	1.543	1.544	1.544
		(AC-FT)	287.	325.	325.	325.

CUMULATIVE AREA = 3.95 SQ MI

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

HYDROGRAPH AT STATION W1
TRANSPOSITION AREA 10.0 SQ MI

TOTAL RAINFALL = 3.99, TOTAL LOSS = 2.51, TOTAL EXCESS = 1.48

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2863.	12.33	(CFS)	552.	157.	151.	151.
		(INCHES)	1.300	1.474	1.476	1.476
		(AC-FT)	274.	311.	311.	311.

CUMULATIVE AREA = 3.95 SQ MI

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

HYDROGRAPH AT STATION W1
TRANSPOSITION AREA 50.0 SQ MI

TOTAL RAINFALL = 3.70, TOTAL LOSS = 2.38, TOTAL EXCESS = 1.32

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2538.	12.33	(CFS)	492.	140.	135.	135.
		(INCHES)	1.159	1.320	1.321	1.321
		(AC-FT)	244.	278.	278.	278.

CUMULATIVE AREA = 3.95 SQ MI

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

HYDROGRAPH AT STATION W1
TRANSPOSITION AREA 100.0 SQ MI

TOTAL RAINFALL = 3.57, TOTAL LOSS = 2.32, TOTAL EXCESS = 1.25

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2390.	12.33	(CFS)	465.	133.	128.	128.
		(INCHES)	1.095	1.250	1.252	1.252
		(AC-FT)	231.	263.	264.	264.

CUMULATIVE AREA = 3.95 SQ MI

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

HYDROGRAPH AT STATION W1
TRANSPOSITION AREA 500.0 SQ MI

TOTAL RAINFALL = 3.28, TOTAL LOSS = 2.18, TOTAL EXCESS = 1.10

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2057.	12.33	(CFS)	403.	116.	112.	112.
		(INCHES)	.949	1.093	1.094	1.094
		(AC-FT)	200.	230.	230.	230.

CUMULATIVE AREA = 3.95 SQ MI

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INTERPOLATED HYDROGRAPH AT W1

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	26.	*	1		1230	151	2771.	*	1		1845	226	27.
1		0005	2	0.	*	1		0620	77	27.	*	1		1235	152	2418.	*	1		1850	227	27.
1		0010	3	0.	*	1		0625	78	27.	*	1		1240	153	2005.	*	1		1855	228	27.
1		0015	4	1.	*	1		0630	79	27.	*	1		1245	154	1767.	*	1		1900	229	27.
1		0020	5	2.	*	1		0635	80	27.	*	1		1250	155	1563.	*	1		1905	230	26.
1		0025	6	3.	*	1		0640	81	27.	*	1		1255	156	1382.	*	1		1910	231	26.
1		0030	7	4.	*	1		0645	82	28.	*	1		1300	157	1216.	*	1		1915	232	26.
1		0035	8	6.	*	1		0650	83	28.	*	1		1305	158	1060.	*	1		1920	233	26.
1		0040	9	7.	*	1		0655	84	28.	*	1		1310	159	915.	*	1		1925	234	26.
1		0045	10	9.	*	1		0700	85	28.	*	1		1315	160	806.	*	1		1930	235	26.
1		0050	11	10.	*	1		0705	86	28.	*	1		1320	161	716.	*	1		1935	236	26.

1	0055	12	11.	*	1	0710	87	28.	*	1	1325	162	624.	*	1	1940	237	26.
1	0100	13	12.	*	1	0715	88	28.	*	1	1330	163	542.	*	1	1945	238	25.
1	0105	14	13.	*	1	0720	89	29.	*	1	1335	164	479.	*	1	1950	239	25.
1	0110	15	14.	*	1	0725	90	29.	*	1	1340	165	426.	*	1	1955	240	25.
1	0115	16	14.	*	1	0730	91	30.	*	1	1345	166	378.	*	1	2000	241	25.
1	0120	17	15.	*	1	0735	92	30.	*	1	1350	167	337.	*	1	2005	242	24.
1	0125	18	15.	*	1	0740	93	31.	*	1	1355	168	305.	*	1	2010	243	24.
1	0130	19	15.	*	1	0745	94	32.	*	1	1400	169	266.	*	1	2015	244	24.
1	0135	20	15.	*	1	0750	95	32.	*	1	1405	170	231.	*	1	2020	245	23.
1	0140	21	15.	*	1	0755	96	32.	*	1	1410	171	209.	*	1	2025	246	23.
1	0145	22	16.	*	1	0800	97	33.	*	1	1415	172	187.	*	1	2030	247	23.
1	0150	23	16.	*	1	0805	98	33.	*	1	1420	173	165.	*	1	2035	248	23.
1	0155	24	16.	*	1	0810	99	33.	*	1	1425	174	149.	*	1	2040	249	23.
1	0200	25	16.	*	1	0815	100	34.	*	1	1430	175	146.	*	1	2045	250	22.
1	0205	26	17.	*	1	0820	101	34.	*	1	1435	176	143.	*	1	2050	251	22.
1	0210	27	17.	*	1	0825	102	35.	*	1	1440	177	140.	*	1	2055	252	22.
1	0215	28	17.	*	1	0830	103	36.	*	1	1445	178	127.	*	1	2100	253	22.
1	0220	29	18.	*	1	0835	104	36.	*	1	1450	179	113.	*	1	2105	254	21.
1	0225	30	18.	*	1	0840	105	37.	*	1	1455	180	100.	*	1	2110	255	21.
1	0230	31	18.	*	1	0845	106	38.	*	1	1500	181	87.	*	1	2115	256	21.
1	0235	32	18.	*	1	0850	107	38.	*	1	1505	182	73.	*	1	2120	257	21.
1	0240	33	18.	*	1	0855	108	39.	*	1	1510	183	60.	*	1	2125	258	21.
1	0245	34	18.	*	1	0900	109	40.	*	1	1515	184	58.	*	1	2130	259	21.
1	0250	35	19.	*	1	0905	110	40.	*	1	1520	185	56.	*	1	2135	260	21.
1	0255	36	19.	*	1	0910	111	41.	*	1	1525	186	55.	*	1	2140	261	21.
1	0300	37	19.	*	1	0915	112	42.	*	1	1530	187	53.	*	1	2145	262	21.
1	0305	38	20.	*	1	0920	113	42.	*	1	1535	188	52.	*	1	2150	263	21.
1	0310	39	20.	*	1	0925	114	43.	*	1	1540	189	50.	*	1	2155	264	21.
1	0315	40	20.	*	1	0930	115	44.	*	1	1545	190	49.	*	1	2200	265	21.
1	0320	41	20.	*	1	0935	116	45.	*	1	1550	191	48.	*	1	2205	266	20.
1	0325	42	20.	*	1	0940	117	46.	*	1	1555	192	47.	*	1	2210	267	20.
1	0330	43	20.	*	1	0945	118	47.	*	1	1600	193	46.	*	1	2215	268	20.
1	0335	44	20.	*	1	0950	119	48.	*	1	1605	194	45.	*	1	2220	269	20.
1	0340	45	20.	*	1	0955	120	49.	*	1	1610	195	43.	*	1	2225	270	20.
1	0345	46	20.	*	1	1000	121	49.	*	1	1615	196	43.	*	1	2230	271	20.
1	0350	47	20.	*	1	1005	122	51.	*	1	1620	197	42.	*	1	2235	272	19.
1	0355	48	20.	*	1	1010	123	52.	*	1	1625	198	41.	*	1	2240	273	19.
1	0400	49	20.	*	1	1015	124	53.	*	1	1630	199	40.	*	1	2245	274	19.
1	0405	50	21.	*	1	1020	125	55.	*	1	1635	200	39.	*	1	2250	275	19.
1	0410	51	21.	*	1	1025	126	56.	*	1	1640	201	38.	*	1	2255	276	19.
1	0415	52	21.	*	1	1030	127	58.	*	1	1645	202	38.	*	1	2300	277	18.
1	0420	53	21.	*	1	1035	128	60.	*	1	1650	203	37.	*	1	2305	278	18.
1	0425	54	22.	*	1	1040	129	63.	*	1	1655	204	37.	*	1	2310	279	18.
1	0430	55	22.	*	1	1045	130	65.	*	1	1700	205	37.	*	1	2315	280	18.
1	0435	56	23.	*	1	1050	131	67.	*	1	1705	206	36.	*	1	2320	281	17.
1	0440	57	23.	*	1	1055	132	70.	*	1	1710	207	36.	*	1	2325	282	18.
1	0445	58	23.	*	1	1100	133	73.	*	1	1715	208	36.	*	1	2330	283	18.
1	0450	59	23.	*	1	1105	134	77.	*	1	1720	209	35.	*	1	2335	284	18.
1	0455	60	23.	*	1	1110	135	81.	*	1	1725	210	35.	*	1	2340	285	18.
1	0500	61	23.	*	1	1115	136	85.	*	1	1730	211	35.	*	1	2345	286	18.
1	0505	62	23.	*	1	1120	137	90.	*	1	1735	212	34.	*	1	2350	287	18.
1	0510	63	23.	*	1	1125	138	96.	*	1	1740	213	34.	*	1	2355	288	18.
1	0515	64	23.	*	1	1130	139	102.	*	1	1745	214	33.	*	2	0000	289	18.
1	0520	65	23.	*	1	1135	140	166.	*	1	1750	215	33.	*	2	0005	290	17.
1	0525	66	23.	*	1	1140	141	239.	*	1	1755	216	32.	*	2	0010	291	17.
1	0530	67	23.	*	1	1145	142	434.	*	1	1800	217	32.	*	2	0015	292	16.
1	0535	68	24.	*	1	1150	143	737.	*	1	1805	218	31.	*	2	0020	293	15.
1	0540	69	24.	*	1	1155	144	1133.	*	1	1810	219	31.	*	2	0025	294	14.
1	0545	70	24.	*	1	1200	145	1600.	*	1	1815	220	30.	*	2	0030	295	12.
1	0550	71	25.	*	1	1205	146	2143.	*	1	1820	221	30.	*	2	0035	296	11.

```
   1    0555   72       25.   *   1     1210  147     2709.   *   1     1825  222       29.   *   2     0040  297       9.
   1    0600   73       25.   *   1     1215  148     2945.   *   1     1830  223       29.   *   2     0045  298       8.
   1    0605   74       26.   *   1     1220  149     3010.   *   1     1835  224       28.   *   2     0050  299       7.
   1    0610   75       26.   *   1     1225  150     2943.   *   1     1840  225       28.   *   2     0055  300       6.
                         *                                   *                                   *
*****************************************************************************************************************************

PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
  (CFS)       (HR)                  6-HR       24-HR       72-HR     24.92-HR
   3010.     12.33       (CFS)      580.        164.        158.        158.
                        (INCHES)   1.365       1.545       1.546       1.546
                         (AC-FT)    287.        325.        326.        326.

                        CUMULATIVE AREA =    3.95 SQ MI


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


          **************
          *            *
985 KK    *     W1-1W  *       Routing thru W2
          *            *
          **************

986 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          2  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL          0.  HYDROGRAPH PLOT SCALE
                     IPNCH          0  PUNCH COMPUTED HYDROGRAPH
                      IOUT         22  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


               HYDROGRAPH ROUTING DATA

987 RS          STORAGE ROUTING
                     NSTPS          5  NUMBER OF SUBREACHES
                      ITYP       FLOW  TYPE OF INITIAL CONDITION
                    RSVRIC        .00  INITIAL CONDITION
                         X        .00 WORKING R AND D COEFFICIENT

988 RC          NORMAL DEPTH CHANNEL
                       ANL       .065  LEFT OVERBANK N-VALUE
                      ANCH       .060  MAIN CHANNEL N-VALUE
                       ANR       .065  RIGHT OVERBANK N-VALUE
                     RLNTH      12140.  REACH LENGTH
                       SEL      .0799  ENERGY SLOPE
                     ELMAX         .0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                    CROSS-SECTION DATA
                          --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
990 RY       ELEVATION     16.00     13.00     12.00     10.00     10.00     12.00     13.00     16.00
989 RX       DISTANCE        .00    100.00    190.00    210.00    232.00    242.00    332.00    432.00

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COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	2.14	4.71	7.68	11.08	14.89	19.12	24.79	35.20	50.61
OUTFLOW	.00	23.52	78.11	160.98	272.80	414.98	589.20	829.72	1172.51	1653.00
ELEVATION	10.00	10.32	10.63	10.95	11.26	11.58	11.89	12.21	12.53	12.84
STORAGE	70.64	92.91	117.03	143.01	170.84	200.52	232.06	265.44	300.69	337.78
OUTFLOW	2331.26	3214.31	4275.52	5517.05	6942.95	8558.26	10368.54	12379.68	14597.70	17028.75
ELEVATION	13.16	13.47	13.79	14.11	14.42	14.74	15.05	15.37	15.68	16.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 10369. TO 17029.
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.)

3010 OK

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HYDROGRAPH AT STATION W1-1W
TRANSPOSITION AREA .0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2874.	12.67	(CFS)	595.	168.	162.	162.
		(INCHES)	1.401	1.580	1.580	1.580
		(AC-FT)	295.	333.	333.	333.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
17.	12.67	4.	1.	1.	1.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
13.35	12.67	11.38	10.57	10.55	10.55

CUMULATIVE AREA = 3.95 SQ MI

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HYDROGRAPH AT STATION W1-1W
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2789.	12.67	(CFS)	579.	163.	157.	157.
		(INCHES)	1.363	1.538	1.538	1.538
		(AC-FT)	287.	324.	324.	324.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
16.	12.67	4.	1.	1.	1.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
13.32	12.67	11.36	10.57	10.55	10.55

CUMULATIVE AREA = 3.95 SQ MI

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HYDROGRAPH AT STATION W1-1W
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
2646.	12.67	(CFS)	552.	156.	150.	150.
		(INCHES)	1.300	1.470	1.470	1.470
		(AC-FT)	274.	310.	310.	310.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
16.	12.67	4.	1.	1.	1.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
13.27	12.67	11.34	10.55	10.53	10.53

CUMULATIVE AREA = 3.95 SQ MI

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HYDROGRAPH AT STATION W1-1W
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
2304.	12.67	(CFS)	492.	140.	135.	135.
		(INCHES)	1.158	1.316	1.316	1.316
		(AC-FT)	244.	277.	277.	277.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
14.	12.67	3.	1.	1.	1.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
13.15	12.67	11.28	10.53	10.51	10.51

CUMULATIVE AREA = 3.95 SQ MI

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HYDROGRAPH AT STATION W1-1W
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
2165.	12.75	(CFS)	465.	132.	128.	128.
		(INCHES)	1.094	1.246	1.247	1.247
		(AC-FT)	231.	263.	263.	263.

STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
13.	12.75	3.	1.	1.	1.

PEAK STAGE TIME MAXIMUM AVERAGE STAGE

(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
13.08	12.75	11.25	10.51	10.50	10.50

CUMULATIVE AREA = 3.95 SQ MI

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

HYDROGRAPH AT STATION W1-1W
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
1862.	12.75	(CFS)	403.	116.	111.	111.
		(INCHES)	.949	1.089	1.089	1.089
		(AC-FT)	200.	229.	229.	229.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
(AC-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
11.	12.75	3.	1.	1.	1.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
(FEET)	(HR)	6-HR	24-HR	72-HR	24.92-HR
12.94	12.75	11.18	10.48	10.47	10.47

CUMULATIVE AREA = 3.95 SQ MI

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INTERPOLATED HYDROGRAPH AT W1-1W

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	23.	1		1230	151	2394.	1		1845	226	31.
1		0005	2	0.	1		0620	77	24.	1		1235	152	2703.	1		1850	227	30.
1		0010	3	0.	1		0625	78	24.	1		1240	153	2792.	1		1855	228	30.
1		0015	4	0.	1		0630	79	25.	1		1245	154	2718.	1		1900	229	29.
1		0020	5	0.	1		0635	80	25.	1		1250	155	2532.	1		1905	230	29.
1		0025	6	0.	1		0640	81	26.	1		1255	156	2307.	1		1910	231	28.
1		0030	7	0.	1		0645	82	26.	1		1300	157	2097.	1		1915	232	28.
1		0035	8	0.	1		0650	83	26.	1		1305	158	1881.	1		1920	233	28.
1		0040	9	0.	1		0655	84	27.	1		1310	159	1680.	1		1925	234	27.
1		0045	10	0.	1		0700	85	27.	1		1315	160	1507.	1		1930	235	27.
1		0050	11	0.	1		0705	86	27.	1		1320	161	1340.	1		1935	236	27.
1		0055	12	1.	1		0710	87	27.	1		1325	162	1177.	1		1940	237	27.
1		0100	13	1.	1		0715	88	27.	1		1330	163	1018.	1		1945	238	26.
1		0105	14	1.	1		0720	89	28.	1		1335	164	870.	1		1950	239	26.
1		0110	15	2.	1		0725	90	28.	1		1340	165	718.	1		1955	240	26.
1		0115	16	2.	1		0730	91	28.	1		1345	166	604.	1		2000	241	26.
1		0120	17	3.	1		0735	92	28.	1		1350	167	527.	1		2005	242	26.
1		0125	18	4.	1		0740	93	28.	1		1355	168	465.	1		2010	243	26.
1		0130	19	5.	1		0745	94	28.	1		1400	169	415.	1		2015	244	25.
1		0135	20	6.	1		0750	95	29.	1		1405	170	376.	1		2020	245	25.
1		0140	21	7.	1		0755	96	29.	1		1410	171	338.	1		2025	246	25.
1		0145	22	7.	1		0800	97	30.	1		1415	172	303.	1		2030	247	25.
1		0150	23	8.	1		0805	98	30.	1		1420	173	272.	1		2035	248	24.
1		0155	24	9.	1		0810	99	31.	1		1425	174	247.	1		2040	249	24.

1	0200	25	10.	*	1	0815	100	31.	*	1	1430	175	222.	*	1	2045	250	24.
1	0205	26	11.	*	1	0820	101	31.	*	1	1435	176	200.	*	1	2050	251	24.
1	0210	27	11.	*	1	0825	102	32.	*	1	1440	177	182.	*	1	2055	252	24.
1	0215	28	12.	*	1	0830	103	32.	*	1	1445	178	168.	*	1	2100	253	24.
1	0220	29	13.	*	1	0835	104	33.	*	1	1450	179	158.	*	1	2105	254	23.
1	0225	30	13.	*	1	0840	105	33.	*	1	1455	180	151.	*	1	2110	255	23.
1	0230	31	14.	*	1	0845	106	34.	*	1	1500	181	143.	*	1	2115	256	23.
1	0235	32	14.	*	1	0850	107	34.	*	1	1505	182	134.	*	1	2120	257	23.
1	0240	33	15.	*	1	0855	108	35.	*	1	1510	183	124.	*	1	2125	258	23.
1	0245	34	15.	*	1	0900	109	35.	*	1	1515	184	113.	*	1	2130	259	23.
1	0250	35	15.	*	1	0905	110	36.	*	1	1520	185	102.	*	1	2135	260	23.
1	0255	36	16.	*	1	0910	111	37.	*	1	1525	186	91.	*	1	2140	261	23.
1	0300	37	16.	*	1	0915	112	37.	*	1	1530	187	82.	*	1	2145	262	22.
1	0305	38	16.	*	1	0920	113	38.	*	1	1535	188	76.	*	1	2150	263	22.
1	0310	39	17.	*	1	0925	114	38.	*	1	1540	189	71.	*	1	2155	264	22.
1	0315	40	17.	*	1	0930	115	39.	*	1	1545	190	67.	*	1	2200	265	22.
1	0320	41	17.	*	1	0935	116	40.	*	1	1550	191	63.	*	1	2205	266	22.
1	0325	42	17.	*	1	0940	117	40.	*	1	1555	192	60.	*	1	2210	267	22.
1	0330	43	18.	*	1	0945	118	41.	*	1	1600	193	57.	*	1	2215	268	21.
1	0335	44	18.	*	1	0950	119	42.	*	1	1605	194	55.	*	1	2220	269	21.
1	0340	45	18.	*	1	0955	120	43.	*	1	1610	195	53.	*	1	2225	270	21.
1	0345	46	18.	*	1	1000	121	43.	*	1	1615	196	51.	*	1	2230	271	21.
1	0350	47	19.	*	1	1005	122	44.	*	1	1620	197	50.	*	1	2235	272	21.
1	0355	48	19.	*	1	1010	123	45.	*	1	1625	198	48.	*	1	2240	273	21.
1	0400	49	19.	*	1	1015	124	46.	*	1	1630	199	47.	*	1	2245	274	21.
1	0405	50	19.	*	1	1020	125	47.	*	1	1635	200	46.	*	1	2250	275	21.
1	0410	51	19.	*	1	1025	126	48.	*	1	1640	201	45.	*	1	2255	276	21.
1	0415	52	19.	*	1	1030	127	49.	*	1	1645	202	44.	*	1	2300	277	21.
1	0420	53	20.	*	1	1035	128	50.	*	1	1650	203	43.	*	1	2305	278	20.
1	0425	54	20.	*	1	1040	129	51.	*	1	1655	204	42.	*	1	2310	279	20.
1	0430	55	20.	*	1	1045	130	53.	*	1	1700	205	41.	*	1	2315	280	20.
1	0435	56	20.	*	1	1050	131	54.	*	1	1705	206	40.	*	1	2320	281	20.
1	0440	57	20.	*	1	1055	132	56.	*	1	1710	207	39.	*	1	2325	282	20.
1	0445	58	20.	*	1	1100	133	57.	*	1	1715	208	39.	*	1	2330	283	20.
1	0450	59	20.	*	1	1105	134	59.	*	1	1720	209	38.	*	1	2335	284	20.
1	0455	60	20.	*	1	1110	135	61.	*	1	1725	210	38.	*	1	2340	285	19.
1	0500	61	21.	*	1	1115	136	64.	*	1	1730	211	37.	*	1	2345	286	19.
1	0505	62	21.	*	1	1120	137	66.	*	1	1735	212	37.	*	1	2350	287	19.
1	0510	63	21.	*	1	1125	138	69.	*	1	1740	213	36.	*	1	2355	288	19.
1	0515	64	21.	*	1	1130	139	73.	*	1	1745	214	36.	*	2	0000	289	19.
1	0520	65	21.	*	1	1135	140	77.	*	1	1750	215	36.	*	2	0005	290	18.
1	0525	66	22.	*	1	1140	141	85.	*	1	1755	216	35.	*	2	0010	291	18.
1	0530	67	22.	*	1	1145	142	98.	*	1	1800	217	35.	*	2	0015	292	18.
1	0535	68	22.	*	1	1150	143	126.	*	1	1805	218	34.	*	2	0020	293	18.
1	0540	69	22.	*	1	1155	144	198.	*	1	1810	219	34.	*	2	0025	294	18.
1	0545	70	22.	*	1	1200	145	361.	*	1	1815	220	34.	*	2	0030	295	18.
1	0550	71	22.	*	1	1205	146	626.	*	1	1820	221	33.	*	2	0035	296	18.
1	0555	72	23.	*	1	1210	147	905.	*	1	1825	222	33.	*	2	0040	297	18.
1	0600	73	23.	*	1	1215	148	1182.	*	1	1830	223	32.	*	2	0045	298	17.
1	0605	74	23.	*	1	1220	149	1536.	*	1	1835	224	32.	*	2	0050	299	17.
1	0610	75	23.	*	1	1225	150	1972.	*	1	1840	225	31.	*	2	0055	300	17.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
2792.	12.67	(CFS)	580.	164.	158.	158.
		(INCHES)	1.364	1.540	1.540	1.540
		(AC-FT)	287.	324.	324.	324.

CUMULATIVE AREA = 3.95 SQ MI

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991 KK

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* *
* W2 *
* *
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BASIN W2
THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
L= 2.3 Lca= 1.1 S= 422.0 Kn= .050 LAG= 33.0
PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN

996 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

SUBBASIN RUNOFF DATA

997 BA SUBBASIN CHARACTERISTICS

TAREA	2.69	SUBBASIN AREA

998 LG GREEN AND AMPT LOSS RATE

STRTL	.27	STARTING LOSS
DTH	.35	MOISTURE DEFICIT
PSIF	4.19	WETTING FRONT SUCTION
XKSAT	.40	HYDRAULIC CONDUCTIVITY
RTIMP	3.00	PERCENT IMPERVIOUS AREA

997 UI INPUT UNITGRAPH, 30 ORDINATES, VOLUME = 1.00

274.0	522.0	1229.0	1805.0	2237.0	3080.0	1992.0	1608.0	1388.0	1185.0
993.0	777.0	656.0	588.0	442.0	351.0	306.0	255.0	210.0	170.0
134.0	134.0	99.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0

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HYDROGRAPH AT STATION W2
TRANSPOSITION AREA .0 SQ MI

TOTAL RAINFALL = 4.20, TOTAL LOSS = 2.97, TOTAL EXCESS = 1.23

K FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
2343.	12.25	(CFS)	345.	89.	86.	86.
		(INCHES)	1.192	1.229	1.229	1.229
		(AC-FT)	171.	176.	176.	176.

CUMULATIVE AREA = 2.69 SQ MI

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HYDROGRAPH AT STATION W2
TRANSPOSITION AREA 5.0 SQ MI

TOTAL RAINFALL = 4.12, TOTAL LOSS = 2.93, TOTAL EXCESS = 1.19

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2273.	12.25	(CFS)	335.	86.	83.	83.
		(INCHES)	1.156	1.192	1.193	1.193
		(AC-FT)	166.	171.	171.	171.

CUMULATIVE AREA = 2.69 SQ MI

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

HYDROGRAPH AT STATION W2
TRANSPOSITION AREA 10.0 SQ MI

TOTAL RAINFALL = 3.99, TOTAL LOSS = 2.86, TOTAL EXCESS = 1.13

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2158.	12.25	(CFS)	318.	82.	79.	79.
		(INCHES)	1.098	1.133	1.133	1.133
		(AC-FT)	158.	163.	163.	163.

CUMULATIVE AREA = 2.69 SQ MI

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

HYDROGRAPH AT STATION W2
TRANSPOSITION AREA 50.0 SQ MI

TOTAL RAINFALL = 3.70, TOTAL LOSS = 2.70, TOTAL EXCESS = 1.00

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1899.	12.25	(CFS)	280.	72.	70.	70.
		(INCHES)	.966	.999	.999	.999
		(AC-FT)	139.	143.	143.	143.

CUMULATIVE AREA = 2.69 SQ MI

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

HYDROGRAPH AT STATION W2
TRANSPOSITION AREA 100.0 SQ MI

TOTAL RAINFALL = 3.57, TOTAL LOSS = 2.63, TOTAL EXCESS = .94

PEAK FLOW TIME MAXIMUM AVERAGE FLOW

PEAK FLOW (CFS)	TIME (HR)		6-HR	24-HR	72-HR	24.92-HR
1782.	12.25	(CFS)	262.	68.	65.	65.
		(INCHES)	.906	.938	.938	.938
		(AC-FT)	130.	135.	135.	135.

CUMULATIVE AREA = 2.69 SQ MI

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

HYDROGRAPH AT STATION W2
TRANSPOSITION AREA 500.0 SQ MI

TOTAL RAINFALL = 3.28, TOTAL LOSS = 2.48, TOTAL EXCESS = .80

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1516.	12.25	(CFS)	223.	58.	56.	56.
		(INCHES)	.771	.799	.800	.800
		(AC-FT)	111.	115.	115.	115.

CUMULATIVE AREA = 2.69 SQ MI

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INTERPOLATED HYDROGRAPH AT W2

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	4.	1		1230	151	1513.	1		1845	226	4.
1		0005	2	0.	1		0620	77	4.	1		1235	152	1263.	1		1850	227	4.
1		0010	3	0.	1		0625	78	4.	1		1240	153	1073.	1		1855	228	4.
1		0015	4	0.	1		0630	79	4.	1		1245	154	896.	1		1900	229	4.
1		0020	5	0.	1		0635	80	4.	1		1250	155	739.	1		1905	230	4.
1		0025	6	1.	1		0640	81	4.	1		1255	156	609.	1		1910	231	4.
1		0030	7	1.	1		0645	82	4.	1		1300	157	509.	1		1915	232	3.
1		0035	8	1.	1		0650	83	4.	1		1305	158	425.	1		1920	233	3.
1		0040	9	1.	1		0655	84	4.	1		1310	159	345.	1		1925	234	3.
1		0045	10	2.	1		0700	85	4.	1		1315	160	286.	1		1930	235	3.
1		0050	11	2.	1		0705	86	4.	1		1320	161	245.	1		1935	236	3.
1		0055	12	2.	1		0710	87	4.	1		1325	162	205.	1		1940	237	3.
1		0100	13	2.	1		0715	88	4.	1		1330	163	166.	1		1945	238	3.
1		0105	14	2.	1		0720	89	4.	1		1335	164	136.	1		1950	239	3.
1		0110	15	2.	1		0725	90	4.	1		1340	165	113.	1		1955	240	3.
1		0115	16	2.	1		0730	91	4.	1		1345	166	97.	1		2000	241	3.
1		0120	17	2.	1		0735	92	4.	1		1350	167	81.	1		2005	242	3.
1		0125	18	2.	1		0740	93	4.	1		1355	168	72.	1		2010	243	3.
1		0130	19	2.	1		0745	94	4.	1		1400	169	71.	1		2015	244	3.
1		0135	20	2.	1		0750	95	4.	1		1405	170	61.	1		2020	245	3.
1		0140	21	2.	1		0755	96	5.	1		1410	171	51.	1		2025	246	3.
1		0145	22	2.	1		0800	97	5.	1		1415	172	41.	1		2030	247	3.
1		0150	23	2.	1		0805	98	5.	1		1420	173	30.	1		2035	248	3.
1		0155	24	2.	1		0810	99	5.	1		1425	174	20.	1		2040	249	3.
1		0200	25	2.	1		0815	100	5.	1		1430	175	9.	1		2045	250	3.
1		0205	26	2.	1		0820	101	5.	1		1435	176	9.	1		2050	251	3.
1		0210	27	2.	1		0825	102	5.	1		1440	177	9.	1		2055	252	3.
1		0215	28	2.	1		0830	103	5.	1		1445	178	9.	1		2100	253	3.

1	0220	29	2.	*	1	0835	104	5.	*	1	1450	179	8.	*	1	2105	254	3.
1	0225	30	2.	*	1	0840	105	5.	*	1	1455	180	8.	*	1	2110	255	3.
1	0230	31	3.	*	1	0845	106	5.	*	1	1500	181	8.	*	1	2115	256	3.
1	0235	32	3.	*	1	0850	107	5.	*	1	1505	182	8.	*	1	2120	257	3.
1	0240	33	3.	*	1	0855	108	6.	*	1	1510	183	7.	*	1	2125	258	3.
1	0245	34	3.	*	1	0900	109	6.	*	1	1515	184	7.	*	1	2130	259	3.
1	0250	35	3.	*	1	0905	110	6.	*	1	1520	185	7.	*	1	2135	260	3.
1	0255	36	3.	*	1	0910	111	6.	*	1	1525	186	7.	*	1	2140	261	3.
1	0300	37	3.	*	1	0915	112	6.	*	1	1530	187	7.	*	1	2145	262	3.
1	0305	38	3.	*	1	0920	113	6.	*	1	1535	188	7.	*	1	2150	263	3.
1	0310	39	3.	*	1	0925	114	6.	*	1	1540	189	6.	*	1	2155	264	3.
1	0315	40	3.	*	1	0930	115	6.	*	1	1545	190	6.	*	1	2200	265	3.
1	0320	41	3.	*	1	0935	116	6.	*	1	1550	191	6.	*	1	2205	266	3.
1	0325	42	3.	*	1	0940	117	6.	*	1	1555	192	6.	*	1	2210	267	3.
1	0330	43	3.	*	1	0945	118	7.	*	1	1600	193	6.	*	1	2215	268	3.
1	0335	44	3.	*	1	0950	119	7.	*	1	1605	194	6.	*	1	2220	269	3.
1	0340	45	3.	*	1	0955	120	7.	*	1	1610	195	6.	*	1	2225	270	3.
1	0345	46	3.	*	1	1000	121	7.	*	1	1615	196	6.	*	1	2230	271	3.
1	0350	47	3.	*	1	1005	122	7.	*	1	1620	197	5.	*	1	2235	272	3.
1	0355	48	3.	*	1	1010	123	7.	*	1	1625	198	5.	*	1	2240	273	3.
1	0400	49	3.	*	1	1015	124	8.	*	1	1630	199	5.	*	1	2245	274	3.
1	0405	50	3.	*	1	1020	125	8.	*	1	1635	200	5.	*	1	2250	275	3.
1	0410	51	3.	*	1	1025	126	8.	*	1	1640	201	5.	*	1	2255	276	2.
1	0415	52	3.	*	1	1030	127	8.	*	1	1645	202	5.	*	1	2300	277	2.
1	0420	53	3.	*	1	1035	128	9.	*	1	1650	203	5.	*	1	2305	278	2.
1	0425	54	3.	*	1	1040	129	9.	*	1	1655	204	5.	*	1	2310	279	2.
1	0430	55	3.	*	1	1045	130	9.	*	1	1700	205	5.	*	1	2315	280	2.
1	0435	56	3.	*	1	1050	131	10.	*	1	1705	206	5.	*	1	2320	281	2.
1	0440	57	3.	*	1	1055	132	10.	*	1	1710	207	5.	*	1	2325	282	2.
1	0445	58	3.	*	1	1100	133	11.	*	1	1715	208	5.	*	1	2330	283	2.
1	0450	59	3.	*	1	1105	134	11.	*	1	1720	209	5.	*	1	2335	284	2.
1	0455	60	3.	*	1	1110	135	12.	*	1	1725	210	5.	*	1	2340	285	2.
1	0500	61	3.	*	1	1115	136	13.	*	1	1730	211	5.	*	1	2345	286	2.
1	0505	62	3.	*	1	1120	137	14.	*	1	1735	212	5.	*	1	2350	287	2.
1	0510	63	3.	*	1	1125	138	15.	*	1	1740	213	4.	*	1	2355	288	2.
1	0515	64	3.	*	1	1130	139	16.	*	1	1745	214	4.	*	2	0000	289	2.
1	0520	65	3.	*	1	1135	140	65.	*	1	1750	215	4.	*	2	0005	290	2.
1	0525	66	3.	*	1	1140	141	160.	*	1	1755	216	4.	*	2	0010	291	2.
1	0530	67	3.	*	1	1145	142	382.	*	1	1800	217	4.	*	2	0015	292	2.
1	0535	68	3.	*	1	1150	143	711.	*	1	1805	218	4.	*	2	0020	293	2.
1	0540	69	3.	*	1	1155	144	1122.	*	1	1810	219	4.	*	2	0025	294	2.
1	0545	70	3.	*	1	1200	145	1690.	*	1	1815	220	4.	*	2	0030	295	1.
1	0550	71	3.	*	1	1205	146	2021.	*	1	1820	221	4.	*	2	0035	296	1.
1	0555	72	3.	*	1	1210	147	2238.	*	1	1825	222	4.	*	2	0040	297	1.
1	0600	73	4.	*	1	1215	148	2280.	*	1	1830	223	4.	*	2	0045	298	1.
1	0605	74	4.	*	1	1220	149	2173.	*	1	1835	224	4.	*	2	0050	299	1.
1	0610	75	4.	*	1	1225	150	1945.	*	1	1840	225	4.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
2280.	12.25	(CFS)	336.	87.	83.	83.
		(INCHES)	1.160	1.196	1.196	1.196
		(AC-FT)	166.	172.	172.	172.

CUMULATIVE AREA = 2.69 SQ MI

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          *            *
1004 KK   *        1W  *
          *            *
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Combining W1 & W2

1006 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

1007 HC HYDROGRAPH COMBINATION

ICOMP	2	NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 1W
TRANSPOSITION AREA .0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
4085.	12.58	(CFS)	940.	257.	247.	247.
		(INCHES)	1.316	1.438	1.438	1.438
		(AC-FT)	466.	509.	509.	509.

CUMULATIVE AREA = 6.64 SQ MI

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HYDROGRAPH AT STATION 1W
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
3959.	12.58	(CFS)	913.	250.	240.	240.
		(INCHES)	1.279	1.398	1.398	1.398
		(AC-FT)	453.	495.	495.	495.

CUMULATIVE AREA = 6.64 SQ MI

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HYDROGRAPH AT STATION 1W
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
3738.	12.58	(CFS)	870.	238.	229.	229.
		(INCHES)	1.218	1.333	1.334	1.334
		(AC-FT)	431.	472.	472.	472.

CUMULATIVE AREA = 6.64 SQ MI

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

HYDROGRAPH AT STATION 1W
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
3246.	12.42	(CFS)	772.	212.	204.	204.
		(INCHES)	1.080	1.187	1.188	1.188
		(AC-FT)	383.	421.	421.	421.

CUMULATIVE AREA = 6.64 SQ MI

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

HYDROGRAPH AT STATION 1W
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
3050.	12.42	(CFS)	727.	200.	193.	193.
		(INCHES)	1.018	1.121	1.121	1.121
		(AC-FT)	361.	397.	397.	397.

CUMULATIVE AREA = 6.64 SQ MI

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HYDROGRAPH AT STATION 1W
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2620.	12.42	(CFS)	626.	173.	167.	167.
		(INCHES)	.877	.972	.972	.972
		(AC-FT)	310.	344.	344.	344.

CUMULATIVE AREA = 6.64 SQ MI

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INTERPOLATED HYDROGRAPH AT 1W

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	27.	*	1		1230	151	3809.	*	1		1845	226	34.

1	0005	2	0.	*	1	0620	77	27.	*	1	1235	152	3868.	*	1	1850	227	33.
1	0010	3	0.	*	1	0625	78	27.	*	1	1240	153	3778.	*	1	1855	228	33.
1	0015	4	0.	*	1	0630	79	28.	*	1	1245	154	3537.	*	1	1900	229	32.
1	0020	5	0.	*	1	0635	80	28.	*	1	1250	155	3206.	*	1	1905	230	32.
1	0025	6	1.	*	1	0640	81	29.	*	1	1255	156	2865.	*	1	1910	231	31.
1	0030	7	1.	*	1	0645	82	29.	*	1	1300	157	2559.	*	1	1915	232	31.
1	0035	8	1.	*	1	0650	83	30.	*	1	1305	158	2263.	*	1	1920	233	31.
1	0040	9	1.	*	1	0655	84	30.	*	1	1310	159	1989.	*	1	1925	234	30.
1	0045	10	2.	*	1	0700	85	30.	*	1	1315	160	1761.	*	1	1930	235	30.
1	0050	11	2.	*	1	0705	86	30.	*	1	1320	161	1554.	*	1	1935	236	30.
1	0055	12	2.	*	1	0710	87	31.	*	1	1325	162	1353.	*	1	1940	237	30.
1	0100	13	3.	*	1	0715	88	31.	*	1	1330	163	1158.	*	1	1945	238	29.
1	0105	14	3.	*	1	0720	89	31.	*	1	1335	164	981.	*	1	1950	239	29.
1	0110	15	4.	*	1	0725	90	31.	*	1	1340	165	808.	*	1	1955	240	29.
1	0115	16	5.	*	1	0730	91	32.	*	1	1345	166	686.	*	1	2000	241	29.
1	0120	17	5.	*	1	0735	92	32.	*	1	1350	167	596.	*	1	2005	242	29.
1	0125	18	6.	*	1	0740	93	32.	*	1	1355	168	527.	*	1	2010	243	28.
1	0130	19	7.	*	1	0745	94	32.	*	1	1400	169	478.	*	1	2015	244	28.
1	0135	20	8.	*	1	0750	95	33.	*	1	1405	170	429.	*	1	2020	245	28.
1	0140	21	9.	*	1	0755	96	33.	*	1	1410	171	382.	*	1	2025	246	28.
1	0145	22	9.	*	1	0800	97	34.	*	1	1415	172	337.	*	1	2030	247	27.
1	0150	23	10.	*	1	0805	98	34.	*	1	1420	173	297.	*	1	2035	248	27.
1	0155	24	11.	*	1	0810	99	35.	*	1	1425	174	262.	*	1	2040	249	27.
1	0200	25	12.	*	1	0815	100	35.	*	1	1430	175	228.	*	1	2045	250	27.
1	0205	26	13.	*	1	0820	101	36.	*	1	1435	176	206.	*	1	2050	251	27.
1	0210	27	14.	*	1	0825	102	36.	*	1	1440	177	187.	*	1	2055	252	26.
1	0215	28	14.	*	1	0830	103	37.	*	1	1445	178	174.	*	1	2100	253	26.
1	0220	29	15.	*	1	0835	104	37.	*	1	1450	179	164.	*	1	2105	254	26.
1	0225	30	15.	*	1	0840	105	38.	*	1	1455	180	156.	*	1	2110	255	26.
1	0230	31	16.	*	1	0845	106	38.	*	1	1500	181	148.	*	1	2115	256	26.
1	0235	32	16.	*	1	0850	107	39.	*	1	1505	182	140.	*	1	2120	257	26.
1	0240	33	17.	*	1	0855	108	40.	*	1	1510	183	130.	*	1	2125	258	26.
1	0245	34	17.	*	1	0900	109	40.	*	1	1515	184	119.	*	1	2130	259	25.
1	0250	35	18.	*	1	0905	110	41.	*	1	1520	185	107.	*	1	2135	260	25.
1	0255	36	18.	*	1	0910	111	42.	*	1	1525	186	97.	*	1	2140	261	25.
1	0300	37	18.	*	1	0915	112	42.	*	1	1530	187	88.	*	1	2145	262	25.
1	0305	38	19.	*	1	0920	113	43.	*	1	1535	188	82.	*	1	2150	263	25.
1	0310	39	19.	*	1	0925	114	44.	*	1	1540	189	77.	*	1	2155	264	25.
1	0315	40	19.	*	1	0930	115	45.	*	1	1545	190	72.	*	1	2200	265	24.
1	0320	41	20.	*	1	0935	116	46.	*	1	1550	191	68.	*	1	2205	266	24.
1	0325	42	20.	*	1	0940	117	46.	*	1	1555	192	65.	*	1	2210	267	24.
1	0330	43	20.	*	1	0945	118	47.	*	1	1600	193	62.	*	1	2215	268	24.
1	0335	44	20.	*	1	0950	119	48.	*	1	1605	194	60.	*	1	2220	269	24.
1	0340	45	20.	*	1	0955	120	49.	*	1	1610	195	58.	*	1	2225	270	24.
1	0345	46	21.	*	1	1000	121	50.	*	1	1615	196	56.	*	1	2230	271	24.
1	0350	47	21.	*	1	1005	122	51.	*	1	1620	197	54.	*	1	2235	272	23.
1	0355	48	21.	*	1	1010	123	52.	*	1	1625	198	53.	*	1	2240	273	23.
1	0400	49	21.	*	1	1015	124	53.	*	1	1630	199	51.	*	1	2245	274	23.
1	0405	50	22.	*	1	1020	125	54.	*	1	1635	200	50.	*	1	2250	275	23.
1	0410	51	22.	*	1	1025	126	55.	*	1	1640	201	49.	*	1	2255	276	23.
1	0415	52	22.	*	1	1030	127	57.	*	1	1645	202	48.	*	1	2300	277	23.
1	0420	53	22.	*	1	1035	128	58.	*	1	1650	203	47.	*	1	2305	278	22.
1	0425	54	22.	*	1	1040	129	59.	*	1	1655	204	46.	*	1	2310	279	22.
1	0430	55	23.	*	1	1045	130	61.	*	1	1700	205	45.	*	1	2315	280	22.
1	0435	56	23.	*	1	1050	131	63.	*	1	1705	206	44.	*	1	2320	281	22.
1	0440	57	23.	*	1	1055	132	65.	*	1	1710	207	44.	*	1	2325	282	22.
1	0445	58	23.	*	1	1100	133	67.	*	1	1715	208	43.	*	1	2330	283	22.
1	0450	59	23.	*	1	1105	134	70.	*	1	1720	209	42.	*	1	2335	284	22.
1	0455	60	23.	*	1	1110	135	72.	*	1	1725	210	42.	*	1	2340	285	21.
1	0500	61	23.	*	1	1115	136	75.	*	1	1730	211	41.	*	1	2345	286	21.

1	0505	62	24.	*	1	1120	137	79.	*	1	1735	212	41.	*	1	2350	287	21.
1	0510	63	24.	*	1	1125	138	83.	*	1	1740	213	40.	*	1	2355	288	21.
1	0515	64	24.	*	1	1130	139	87.	*	1	1745	214	40.	*	2	0000	289	21.
1	0520	65	24.	*	1	1135	140	140.	*	1	1750	215	39.	*	2	0005	290	20.
1	0525	66	24.	*	1	1140	141	239.	*	1	1755	216	39.	*	2	0010	291	20.
1	0530	67	25.	*	1	1145	142	468.	*	1	1800	217	38.	*	2	0015	292	20.
1	0535	68	25.	*	1	1150	143	816.	*	1	1805	218	38.	*	2	0020	293	20.
1	0540	69	25.	*	1	1155	144	1287.	*	1	1810	219	38.	*	2	0025	294	19.
1	0545	70	25.	*	1	1200	145	2000.	*	1	1815	220	37.	*	2	0030	295	19.
1	0550	71	25.	*	1	1205	146	2583.	*	1	1820	221	37.	*	2	0035	296	19.
1	0555	72	26.	*	1	1210	147	3076.	*	1	1825	222	36.	*	2	0040	297	18.
1	0600	73	26.	*	1	1215	148	3387.	*	1	1830	223	35.	*	2	0045	298	18.
1	0605	74	26.	*	1	1220	149	3627.	*	1	1835	224	35.	*	2	0050	299	18.
1	0610	75	26.	*	1	1225	150	3824.	*	1	1840	225	34.	*	2	0055	300	17.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
3868.	12.58	(CFS)	896.	245.	236.	236.
		(INCHES)	1.254	1.372	1.372	1.372
		(AC-FT)	444.	486.	486.	486.

CUMULATIVE AREA = 6.64 SQ MI

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          **************
          *            *
1008 KK   *         X1 *
          *            *
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BASIN X1
THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
L= 2.3 Lca= 1.4 S= 457.0 Kn= .050 LAG= 35.0
PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN

1013 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

SUBBASIN RUNOFF DATA

1014 BA SUBBASIN CHARACTERISTICS

TAREA	.77	SUBBASIN AREA

1015 LG GREEN AND AMPT LOSS RATE

STRTL	.28	STARTING LOSS
DTH	.35	MOISTURE DEFICIT

PSIF 4.30 WETTING FRONT SUCTION
XKSAT .43 HYDRAULIC CONDUCTIVITY
RTIMP 12.00 PERCENT IMPERVIOUS AREA

UI INPUT UNITGRAPH, 32 ORDINATES, VOLUME = 1.00

74.0	129.0	301.0	465.0	569.0	776.0	674.0	466.0	404.0	351.0
300.0	248.0	196.0	175.0	151.0	117.0	95.0	82.0	70.0	57.0
50.0	36.0	36.0	35.0	14.0	14.0	14.0	14.0	14.0	14.0
14.0	14.0								

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HYDROGRAPH AT STATION X1
TRANSPOSITION AREA .0 SQ MI

TOTAL RAINFALL = 4.20, TOTAL LOSS = 2.73, TOTAL EXCESS = 1.47

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
660.	12.25	(CFS)	110.	30.	29.	29.
		(INCHES)	1.324	1.471	1.472	1.472
		(AC-FT)	54.	60.	60.	60.

CUMULATIVE AREA = .77 SQ MI

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

HYDROGRAPH AT STATION X1
TRANSPOSITION AREA 5.0 SQ MI

TOTAL RAINFALL = 4.12, TOTAL LOSS = 2.69, TOTAL EXCESS = 1.43

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
640.	12.25	(CFS)	107.	30.	29.	29.
		(INCHES)	1.286	1.430	1.432	1.432
		(AC-FT)	53.	59.	59.	59.

CUMULATIVE AREA = .77 SQ MI

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

HYDROGRAPH AT STATION X1
TRANSPOSITION AREA 10.0 SQ MI

TOTAL RAINFALL = 3.99, TOTAL LOSS = 2.63, TOTAL EXCESS = 1.36

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
608.	12.25	(CFS)	101.	28.	27.	27.
		(INCHES)	1.224	1.364	1.365	1.365
		(AC-FT)	50.	56.	56.	56.

CUMULATIVE AREA = .77 SQ MI

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HYDROGRAPH AT STATION X1
TRANSPOSITION AREA 50.0 SQ MI

TOTAL RAINFALL = 3.70, TOTAL LOSS = 2.49, TOTAL EXCESS = 1.21

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
536.	12.25	(CFS)	90.	25.	24.	24.
		(INCHES)	1.084	1.214	1.215	1.215
		(AC-FT)	45.	50.	50.	50.

CUMULATIVE AREA = .77 SQ MI

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

HYDROGRAPH AT STATION X1
TRANSPOSITION AREA 100.0 SQ MI

TOTAL RAINFALL = 3.57, TOTAL LOSS = 2.42, TOTAL EXCESS = 1.15

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
503.	12.25	(CFS)	85.	24.	23.	23.
		(INCHES)	1.020	1.145	1.146	1.146
		(AC-FT)	42.	47.	47.	47.

CUMULATIVE AREA = .77 SQ MI

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

HYDROGRAPH AT STATION X1
TRANSPOSITION AREA 500.0 SQ MI

TOTAL RAINFALL = 3.28, TOTAL LOSS = 2.29, TOTAL EXCESS = .99

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
429.	12.25	(CFS)	73.	21.	20.	20.
		(INCHES)	.877	.992	.992	.992
		(AC-FT)	36.	41.	41.	41.

CUMULATIVE AREA = .77 SQ MI

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INTERPOLATED HYDROGRAPH AT X1

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	4.	*	1		1230	151	484.	*	1		1845	226	4.
1		0005	2	0.	*	1		0620	77	4.	*	1		1235	152	396.	*	1		1850	227	4.
1		0010	3	0.	*	1		0625	78	4.	*	1		1240	153	342.	*	1		1855	228	4.
1		0015	4	0.	*	1		0630	79	4.	*	1		1245	154	295.	*	1		1900	229	4.

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

1	0520	65	4.	*	1	1135	140	32.	*	1	1750	215	5.	*	2	0005	290	3.
1	0525	66	4.	*	1	1140	141	56.	*	1	1755	216	5.	*	2	0010	291	3.
1	0530	67	4.	*	1	1145	142	110.	*	1	1800	217	5.	*	2	0015	292	2.
1	0535	68	4.	*	1	1150	143	195.	*	1	1805	218	5.	*	2	0020	293	2.
1	0540	69	4.	*	1	1155	144	300.	*	1	1810	219	5.	*	2	0025	294	2.
1	0545	70	4.	*	1	1200	145	442.	*	1	1815	220	5.	*	2	0030	295	2.
1	0550	71	4.	*	1	1205	146	555.	*	1	1820	221	5.	*	2	0035	296	1.
1	0555	72	4.	*	1	1210	147	623.	*	1	1825	222	4.	*	2	0040	297	1.
1	0600	73	4.	*	1	1215	148	646.	*	1	1830	223	4.	*	2	0045	298	1.
1	0605	74	4.	*	1	1220	149	628.	*	1	1835	224	4.	*	2	0050	299	1.
1	0610	75	4.	*	1	1225	150	581.	*	1	1840	225	4.	*	2	0055	300	1.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
646.	12.25	(CFS)	107.	30.	29.	29.
		(INCHES)	1.298	1.443	1.444	1.444
		(AC-FT)	53.	59.	59.	59.

CUMULATIVE AREA = .77 SQ MI

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          **************
          *            *
1 KK      *        Y1  *
          *            *
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BASIN Y1
THE FOLLOWING PARAMETERS WERE PROVIDED FOR THIS BASIN
L= 1.3 Lca= .5 S= 789.0 Kn= .050 LAG= 17.0
PHOENIX MOUNTAIN S-GRAPH WAS USED FOR THIS BASIN

1026 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

SUBBASIN RUNOFF DATA

1027 BA SUBBASIN CHARACTERISTICS

TAREA	.57	SUBBASIN AREA

1028 LG GREEN AND AMPT LOSS RATE

STRTL	.38	STARTING LOSS
DTH	.35	MOISTURE DEFICIT
PSIF	4.24	WETTING FRONT SUCTION
XKSAT	.42	HYDRAULIC CONDUCTIVITY
RTIMP	12.00	PERCENT IMPERVIOUS AREA

1027 UI INPUT UNITGRAPH, 15 ORDINATES, VOLUME = 1.00

160.0 607.0 1074.0 802.0 556.0 393.0 270.0 184.0 131.0 88.0

57.0 43.0 22.0 22.0 22.0

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HYDROGRAPH AT STATION Y1
TRANSPOSITION AREA .0 SQ MI

TOTAL RAINFALL = 4.20, TOTAL LOSS = 2.74, TOTAL EXCESS = 1.46

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
721.	12.08	(CFS)	81.	23.	22.	22.
		(INCHES)	1.320	1.468	1.469	1.469
		(AC-FT)	40.	45.	45.	45.

CUMULATIVE AREA = .57 SQ MI

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HYDROGRAPH AT STATION Y1
TRANSPOSITION AREA 5.0 SQ MI

TOTAL RAINFALL = 4.12, TOTAL LOSS = 2.70, TOTAL EXCESS = 1.42

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
699.	12.08	(CFS)	79.	22.	21.	21.
		(INCHES)	1.282	1.427	1.427	1.427
		(AC-FT)	39.	43.	43.	43.

CUMULATIVE AREA = .57 SQ MI

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HYDROGRAPH AT STATION Y1
TRANSPOSITION AREA 10.0 SQ MI

TOTAL RAINFALL = 3.99, TOTAL LOSS = 2.64, TOTAL EXCESS = 1.35

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
664.	12.08	(CFS)	75.	21.	20.	20.
		(INCHES)	1.218	1.359	1.359	1.359
		(AC-FT)	37.	41.	41.	41.

CUMULATIVE AREA = .57 SQ MI

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HYDROGRAPH AT STATION Y1
TRANSPOSITION AREA 50.0 SQ MI

TOTAL RAINFALL = 3.70, TOTAL LOSS = 2.50, TOTAL EXCESS = 1.20

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
585.	12.08	(CFS)	66.	18.	18.	18.
		(INCHES)	1.075	1.205	1.206	1.206
		(AC-FT)	33.	37.	37.	37.

CUMULATIVE AREA = .57 SQ MI

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HYDROGRAPH AT STATION Y1
TRANSPOSITION AREA 100.0 SQ MI

TOTAL RAINFALL = 3.57, TOTAL LOSS = 2.44, TOTAL EXCESS = 1.13

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
549.	12.08	(CFS)	62.	17.	17.	17.
		(INCHES)	1.010	1.136	1.136	1.136
		(AC-FT)	31.	35.	35.	35.

CUMULATIVE AREA = .57 SQ MI

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

HYDROGRAPH AT STATION Y1
TRANSPOSITION AREA 500.0 SQ MI

TOTAL RAINFALL = 3.28, TOTAL LOSS = 2.31, TOTAL EXCESS = .97

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
468.	12.08	(CFS)	53.	15.	14.	14.
		(INCHES)	.862	.978	.978	.978
		(AC-FT)	26.	30.	30.	30.

CUMULATIVE AREA = .57 SQ MI

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INTERPOLATED HYDROGRAPH AT Y1

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	3.	1		1230	151	170.	1		1845	226	3.
1		0005	2	0.	1		0620	77	3.	1		1235	152	123.	1		1850	227	3.
1		0010	3	0.	1		0625	78	3.	1		1240	153	92.	1		1855	228	3.
1		0015	4	1.	1		0630	79	3.	1		1245	154	68.	1		1900	229	3.
1		0020	5	1.	1		0635	80	3.	1		1250	155	50.	1		1905	230	3.
1		0025	6	1.	1		0640	81	3.	1		1255	156	38.	1		1910	231	3.
1		0030	7	1.	1		0645	82	3.	1		1300	157	28.	1		1915	232	3.
1		0035	8	2.	1		0650	83	3.	1		1305	158	23.	1		1920	233	3.
1		0040	9	2.	1		0655	84	3.	1		1310	159	18.	1		1925	234	3.

1	0045	10	2.	*	1	0700	85	3.	*	1	1315	160	13.	*	1	1930	235	3.
1	0050	11	2.	*	1	0705	86	3.	*	1	1320	161	12.	*	1	1935	236	3.
1	0055	12	2.	*	1	0710	87	3.	*	1	1325	162	11.	*	1	1940	237	3.
1	0100	13	2.	*	1	0715	88	4.	*	1	1330	163	11.	*	1	1945	238	3.
1	0105	14	2.	*	1	0720	89	4.	*	1	1335	164	10.	*	1	1950	239	3.
1	0110	15	2.	*	1	0725	90	4.	*	1	1340	165	10.	*	1	1955	240	3.
1	0115	16	2.	*	1	0730	91	4.	*	1	1345	166	9.	*	1	2000	241	3.
1	0120	17	2.	*	1	0735	92	4.	*	1	1350	167	9.	*	1	2005	242	3.
1	0125	18	2.	*	1	0740	93	4.	*	1	1355	168	8.	*	1	2010	243	3.
1	0130	19	2.	*	1	0745	94	4.	*	1	1400	169	8.	*	1	2015	244	3.
1	0135	20	2.	*	1	0750	95	4.	*	1	1405	170	8.	*	1	2020	245	3.
1	0140	21	2.	*	1	0755	96	4.	*	1	1410	171	8.	*	1	2025	246	3.
1	0145	22	2.	*	1	0800	97	4.	*	1	1415	172	7.	*	1	2030	247	3.
1	0150	23	2.	*	1	0805	98	4.	*	1	1420	173	7.	*	1	2035	248	3.
1	0155	24	2.	*	1	0810	99	4.	*	1	1425	174	7.	*	1	2040	249	3.
1	0200	25	2.	*	1	0815	100	4.	*	1	1430	175	7.	*	1	2045	250	2.
1	0205	26	2.	*	1	0820	101	4.	*	1	1435	176	7.	*	1	2050	251	2.
1	0210	27	2.	*	1	0825	102	5.	*	1	1440	177	7.	*	1	2055	252	2.
1	0215	28	2.	*	1	0830	103	5.	*	1	1445	178	6.	*	1	2100	253	2.
1	0220	29	2.	*	1	0835	104	5.	*	1	1450	179	6.	*	1	2105	254	2.
1	0225	30	2.	*	1	0840	105	5.	*	1	1455	180	6.	*	1	2110	255	2.
1	0230	31	2.	*	1	0845	106	5.	*	1	1500	181	6.	*	1	2115	256	2.
1	0235	32	2.	*	1	0850	107	5.	*	1	1505	182	6.	*	1	2120	257	2.
1	0240	33	2.	*	1	0855	108	5.	*	1	1510	183	6.	*	1	2125	258	2.
1	0245	34	2.	*	1	0900	109	5.	*	1	1515	184	6.	*	1	2130	259	3.
1	0250	35	2.	*	1	0905	110	5.	*	1	1520	185	5.	*	1	2135	260	3.
1	0255	36	2.	*	1	0910	111	5.	*	1	1525	186	5.	*	1	2140	261	2.
1	0300	37	3.	*	1	0915	112	5.	*	1	1530	187	5.	*	1	2145	262	2.
1	0305	38	3.	*	1	0920	113	6.	*	1	1535	188	5.	*	1	2150	263	2.
1	0310	39	2.	*	1	0925	114	6.	*	1	1540	189	5.	*	1	2155	264	2.
1	0315	40	2.	*	1	0930	115	6.	*	1	1545	190	5.	*	1	2200	265	2.
1	0320	41	2.	*	1	0935	116	6.	*	1	1550	191	5.	*	1	2205	266	2.
1	0325	42	2.	*	1	0940	117	6.	*	1	1555	192	5.	*	1	2210	267	2.
1	0330	43	2.	*	1	0945	118	6.	*	1	1600	193	5.	*	1	2215	268	2.
1	0335	44	2.	*	1	0950	119	6.	*	1	1605	194	4.	*	1	2220	269	2.
1	0340	45	2.	*	1	0955	120	6.	*	1	1610	195	4.	*	1	2225	270	2.
1	0345	46	2.	*	1	1000	121	6.	*	1	1615	196	4.	*	1	2230	271	2.
1	0350	47	2.	*	1	1005	122	7.	*	1	1620	197	4.	*	1	2235	272	2.
1	0355	48	2.	*	1	1010	123	7.	*	1	1625	198	4.	*	1	2240	273	2.
1	0400	49	3.	*	1	1015	124	7.	*	1	1630	199	4.	*	1	2245	274	2.
1	0405	50	3.	*	1	1020	125	8.	*	1	1635	200	4.	*	1	2250	275	2.
1	0410	51	3.	*	1	1025	126	8.	*	1	1640	201	4.	*	1	2255	276	2.
1	0415	52	3.	*	1	1030	127	8.	*	1	1645	202	4.	*	1	2300	277	2.
1	0420	53	3.	*	1	1035	128	8.	*	1	1650	203	4.	*	1	2305	278	2.
1	0425	54	3.	*	1	1040	129	9.	*	1	1655	204	4.	*	1	2310	279	2.
1	0430	55	3.	*	1	1045	130	10.	*	1	1700	205	4.	*	1	2315	280	2.
1	0435	56	3.	*	1	1050	131	10.	*	1	1705	206	4.	*	1	2320	281	2.
1	0440	57	3.	*	1	1055	132	11.	*	1	1710	207	4.	*	1	2325	282	2.
1	0445	58	3.	*	1	1100	133	11.	*	1	1715	208	4.	*	1	2330	283	2.
1	0450	59	3.	*	1	1105	134	11.	*	1	1720	209	4.	*	1	2335	284	2.
1	0455	60	3.	*	1	1110	135	12.	*	1	1725	210	4.	*	1	2340	285	2.
1	0500	61	3.	*	1	1115	136	14.	*	1	1730	211	4.	*	1	2345	286	2.
1	0505	62	3.	*	1	1120	137	15.	*	1	1735	212	4.	*	1	2350	287	2.
1	0510	63	3.	*	1	1125	138	16.	*	1	1740	213	4.	*	1	2355	288	2.
1	0515	64	3.	*	1	1130	139	16.	*	1	1745	214	4.	*	2	0000	289	2.
1	0520	65	3.	*	1	1135	140	45.	*	1	1750	215	3.	*	2	0005	290	2.
1	0525	66	3.	*	1	1140	141	151.	*	1	1755	216	3.	*	2	0010	291	2.
1	0530	67	3.	*	1	1145	142	342.	*	1	1800	217	3.	*	2	0015	292	1.
1	0535	68	3.	*	1	1150	143	490.	*	1	1805	218	3.	*	2	0020	293	1.
1	0540	69	3.	*	1	1155	144	598.	*	1	1810	219	3.	*	2	0025	294	1.

1	0545	70	3.	*	1	1200	145	678.	*	1	1815	220	3.	*	2	0030	295	0.
1	0550	71	3.	*	1	1205	146	707.	*	1	1820	221	3.	*	2	0035	296	0.
1	0555	72	3.	*	1	1210	147	633.	*	1	1825	222	3.	*	2	0040	297	0.
1	0600	73	3.	*	1	1215	148	459.	*	1	1830	223	3.	*	2	0045	298	0.
1	0605	74	3.	*	1	1220	149	327.	*	1	1835	224	3.	*	2	0050	299	0.
1	0610	75	3.	*	1	1225	150	235.	*	1	1840	225	3.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
707.	12.08	(CFS)	79.	22.	21.	21.
		(INCHES)	1.295	1.441	1.442	1.442
		(AC-FT)	39.	44.	44.	44.

CUMULATIVE AREA = .57 SQ MI

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          **************
          *            *
1032 KK   *      BES3  *       BUCKEYE STRUCTURE NO.3
          *            *
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Combining V1 & W1+W2 & X1 & Y1

4 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	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

1035 HC HYDROGRAPH COMBINATION

ICOMP	4	NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION BES3
TRANSPOSITION AREA .0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
5410.	12.42	(CFS)	1233.	338.	326.	326.
		(INCHES)	1.320	1.449	1.450	1.450
		(AC-FT)	611.	671.	671.	671.

CUMULATIVE AREA = 8.68 SQ MI

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HYDROGRAPH AT STATION BES3
TRANSPOSITION AREA 5.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
5240.	12.42	(CFS)	1198.	329.	317.	317.
		(INCHES)	1.283	1.409	1.410	1.410
		(AC-FT)	594.	652.	653.	653.

CUMULATIVE AREA = 8.68 SQ MI

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HYDROGRAPH AT STATION BES3
TRANSPOSITION AREA 10.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
4968.	12.42	(CFS)	1140.	314.	302.	302.
		(INCHES)	1.222	1.344	1.344	1.344
		(AC-FT)	566.	622.	622.	622.

CUMULATIVE AREA = 8.68 SQ MI

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

HYDROGRAPH AT STATION BES3
TRANSPOSITION AREA 50.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
4370.	12.33	(CFS)	1011.	279.	269.	269.
		(INCHES)	1.083	1.197	1.197	1.197
		(AC-FT)	502.	554.	554.	554.

CUMULATIVE AREA = 8.68 SQ MI

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

HYDROGRAPH AT STATION BES3
TRANSPOSITION AREA 100.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
4118.	12.33	(CFS)	953.	264.	254.	254.
		(INCHES)	1.021	1.130	1.131	1.131
		(AC-FT)	473.	523.	523.	523.

CUMULATIVE AREA = 8.68 SQ MI

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HYDROGRAPH AT STATION BES3
TRANSPOSITION AREA 500.0 SQ MI

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
3548.	12.33	(CFS)	820.	229.	220.	220.
		(INCHES)	.879	.979	.980	.980
		(AC-FT)	407.	453.	454.	454.

CUMULATIVE AREA = 8.68 SQ MI

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INTERPOLATED HYDROGRAPH AT BES3

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	37.	1		1230	151	4812.	1		1845	226	44.
1		0005	2	0.	1		0620	77	38.	1		1235	152	4662.	1		1850	227	44.
1		0010	3	1.	1		0625	78	38.	1		1240	153	4443.	1		1855	228	43.
1		0015	4	1.	1		0630	79	39.	1		1245	154	4102.	1		1900	229	43.
1		0020	5	2.	1		0635	80	39.	1		1250	155	3687.	1		1905	230	42.
1		0025	6	3.	1		0640	81	40.	1		1255	156	3280.	1		1910	231	42.
1		0030	7	4.	1		0645	82	40.	1		1300	157	2908.	1		1915	232	41.
1		0035	8	5.	1		0650	83	41.	1		1305	158	2558.	1		1920	233	41.
1		0040	9	6.	1		0655	84	41.	1		1310	159	2241.	1		1925	234	41.
1		0045	10	6.	1		0700	85	41.	1		1315	160	1975.	1		1930	235	40.
1		0050	11	7.	1		0705	86	42.	1		1320	161	1736.	1		1935	236	40.
1		0055	12	8.	1		0710	87	42.	1		1325	162	1510.	1		1940	237	40.
1		0100	13	9.	1		0715	88	43.	1		1330	163	1296.	1		1945	238	39.
1		0105	14	10.	1		0720	89	43.	1		1335	164	1099.	1		1950	239	39.
1		0110	15	10.	1		0725	90	44.	1		1340	165	910.	1		1955	240	39.
1		0115	16	11.	1		0730	91	44.	1		1345	166	781.	1		2000	241	38.
1		0120	17	12.	1		0735	92	45.	1		1350	167	682.	1		2005	242	38.
1		0125	18	13.	1		0740	93	45.	1		1355	168	603.	1		2010	243	38.
1		0130	19	13.	1		0745	94	46.	1		1400	169	545.	1		2015	244	37.
1		0135	20	14.	1		0750	95	46.	1		1405	170	492.	1		2020	245	37.
1		0140	21	15.	1		0755	96	47.	1		1410	171	440.	1		2025	246	37.
1		0145	22	16.	1		0800	97	47.	1		1415	172	390.	1		2030	247	36.
1		0150	23	17.	1		0805	98	48.	1		1420	173	346.	1		2035	248	36.
1		0155	24	18.	1		0810	99	49.	1		1425	174	308.	1		2040	249	36.
1		0200	25	19.	1		0815	100	49.	1		1430	175	270.	1		2045	250	36.
1		0205	26	20.	1		0820	101	50.	1		1435	176	243.	1		2050	251	35.
1		0210	27	21.	1		0825	102	51.	1		1440	177	219.	1		2055	252	35.
1		0215	28	22.	1		0830	103	52.	1		1445	178	203.	1		2100	253	35.
1		0220	29	22.	1		0835	104	53.	1		1450	179	192.	1		2105	254	34.
1		0225	30	23.	1		0840	105	53.	1		1455	180	181.	1		2110	255	34.
1		0230	31	23.	1		0845	106	54.	1		1500	181	170.	1		2115	256	34.
1		0235	32	24.	1		0850	107	55.	1		1505	182	161.	1		2120	257	34.
1		0240	33	24.	1		0855	108	56.	1		1510	183	151.	1		2125	258	34.
1		0245	34	25.	1		0900	109	57.	1		1515	184	139.	1		2130	259	34.
1		0250	35	26.	1		0905	110	58.	1		1520	185	128.	1		2135	260	34.
1		0255	36	26.	1		0910	111	59.	1		1525	186	117.	1		2140	261	34.
1		0300	37	27.	1		0915	112	60.	1		1530	187	108.	1		2145	262	33.
1		0305	38	27.	1		0920	113	61.	1		1535	188	101.	1		2150	263	33.
1		0310	39	27.	1		0925	114	62.	1		1540	189	96.	1		2155	264	33.
1		0315	40	28.	1		0930	115	63.	1		1545	190	91.	1		2200	265	32.
1		0320	41	28.	1		0935	116	64.	1		1550	191	86.	1		2205	266	32.
1		0325	42	28.	1		0940	117	66.	1		1555	192	82.	1		2210	267	32.

1	0330	43	28.	*	1	0945	118	67.	*	1	1600	193	79.	*	1	2215	268	32.
1	0335	44	28.	*	1	0950	119	68.	*	1	1605	194	76.	*	1	2220	269	32.
1	0340	45	28.	*	1	0955	120	69.	*	1	1610	195	74.	*	1	2225	270	31.
1	0345	46	29.	*	1	1000	121	71.	*	1	1615	196	72.	*	1	2230	271	31.
1	0350	47	29.	*	1	1005	122	72.	*	1	1620	197	70.	*	1	2235	272	31.
1	0355	48	29.	*	1	1010	123	74.	*	1	1625	198	68.	*	1	2240	273	31.
1	0400	49	30.	*	1	1015	124	76.	*	1	1630	199	67.	*	1	2245	274	31.
1	0405	50	30.	*	1	1020	125	78.	*	1	1635	200	65.	*	1	2250	275	30.
1	0410	51	30.	*	1	1025	126	80.	*	1	1640	201	64.	*	1	2255	276	30.
1	0415	52	31.	*	1	1030	127	82.	*	1	1645	202	63.	*	1	2300	277	30.
1	0420	53	31.	*	1	1035	128	84.	*	1	1650	203	61.	*	1	2305	278	29.
1	0425	54	31.	*	1	1040	129	87.	*	1	1655	204	60.	*	1	2310	279	29.
1	0430	55	32.	*	1	1045	130	90.	*	1	1700	205	59.	*	1	2315	280	29.
1	0435	56	32.	*	1	1050	131	93.	*	1	1705	206	59.	*	1	2320	281	29.
1	0440	57	32.	*	1	1055	132	96.	*	1	1710	207	58.	*	1	2325	282	29.
1	0445	58	32.	*	1	1100	133	100.	*	1	1715	208	57.	*	1	2330	283	29.
1	0450	59	33.	*	1	1105	134	104.	*	1	1720	209	56.	*	1	2335	284	29.
1	0455	60	33.	*	1	1110	135	109.	*	1	1725	210	55.	*	1	2340	285	29.
1	0500	61	33.	*	1	1115	136	115.	*	1	1730	211	55.	*	1	2345	286	28.
1	0505	62	33.	*	1	1120	137	121.	*	1	1735	212	54.	*	1	2350	287	28.
1	0510	63	33.	*	1	1125	138	127.	*	1	1740	213	53.	*	1	2355	288	28.
1	0515	64	33.	*	1	1130	139	134.	*	1	1745	214	53.	*	2	0000	289	28.
1	0520	65	34.	*	1	1135	140	237.	*	1	1750	215	52.	*	2	0005	290	27.
1	0525	66	34.	*	1	1140	141	471.	*	1	1755	216	51.	*	2	0010	291	26.
1	0530	67	34.	*	1	1145	142	962.	*	1	1800	217	51.	*	2	0015	292	26.
1	0535	68	35.	*	1	1150	143	1581.	*	1	1805	218	50.	*	2	0020	293	25.
1	0540	69	35.	*	1	1155	144	2316.	*	1	1810	219	49.	*	2	0025	294	24.
1	0545	70	35.	*	1	1200	145	3314.	*	1	1815	220	49.	*	2	0030	295	22.
1	0550	71	36.	*	1	1205	146	4131.	*	1	1820	221	48.	*	2	0035	296	21.
1	0555	72	36.	*	1	1210	147	4694.	*	1	1825	222	47.	*	2	0040	297	21.
1	0600	73	36.	*	1	1215	148	4892.	*	1	1830	223	46.	*	2	0045	298	20.
1	0605	74	37.	*	1	1220	149	4987.	*	1	1835	224	46.	*	2	0050	299	19.
1	0610	75	37.	*	1	1225	150	5024.	*	1	1840	225	45.	*	2	0055	300	18.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
5024.	12.42	(CFS)	1152.	317.	305.	305.
		(INCHES)	1.234	1.357	1.358	1.358
		(AC-FT)	571.	628.	629.	629.

CUMULATIVE AREA = 8.68 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	A1	1070.	12.17	154.	42.	40.	1.11		
ROUTED TO	A1-1A	931.	12.50	154.	42.	40.	1.11		
HYDROGRAPH AT	A2	1321.	12.67	229.	57.	55.	1.69		
2 COMBINED AT	1A	2237.	12.58	381.	98.	95.	2.80		
ROUTED TO	1A-2A	1947.	13.17	381.	98.	95.	2.80		
HYDROGRAPH AT	A3	2440.	12.75	450.	112.	108.	3.64		
2 COMBINED AT	2A	3364.	13.00	813.	206.	199.	6.44		
HYDROGRAPH AT	B1	460.	12.25	71.	19.	18.	.55		
ROUTED TO	B1-1B	410.	12.67	71.	19.	18.	.55		
HYDROGRAPH AT	B2	363.	12.50	55.	14.	13.	.49		
2 COMBINED AT	1B	754.	12.58	125.	33.	31.	1.04		
ROUTED TO	1B-2B	570.	13.58	125.	32.	31.	1.04		
HYDROGRAPH AT	B3	1461.	12.58	248.	62.	60.	1.97		
2 COMBINED AT	2B	1462.	12.58	372.	94.	91.	3.01		
HYDROGRAPH AT	C1	2662.	12.33	547.	159.	153.	3.58		
ROUTED TO	C1-1C	2431.	12.83	546.	158.	152.	3.58		
HYDROGRAPH AT	C2	1106.	12.83	222.	55.	53.	1.84		
2 COMBINED AT	1C	3508.	12.83	762.	212.	204.	5.42		
ROUTED TO	1C-2C	3134.	13.33	758.	209.	202.	5.42		
HYDROGRAPH AT	C3	2129.	13.00	478.	120.	115.	3.74		
2 COMBINED AT	2C	4413.	13.33	1182.	317.	305.	9.16		
HYDROGRAPH AT	D1	2131.	12.33	284.	71.	68.	2.01		
HYDROGRAPH AT	G1	1577.	12.42	223.	56.	54.	1.62		
5 COMBINED AT	RIVER	7561.	12.50	2636.	684.	659.	22.24		
HYDROGRAPH AT	E1	1072.	12.25	163.	41.	40.	1.11		
ROUTED TO	E1-1E	981.	12.58	163.	41.	40.	1.11		

HYDROGRAPH AT	E2	1759.	12.50	271.	68.	65.	1.86
2 COMBINED AT	1E	2729.	12.50	433.	109.	105.	2.97
DIVERSION TO	1E-D	0.	.08	0.	0.	0.	2.97
HYDROGRAPH AT	DIV-1E	2729.	12.50	433.	109.	105.	2.97
ROUTED TO	1E-2E	2356.	13.08	431.	109.	105.	2.97
HYDROGRAPH AT	F1	2232.	12.33	428.	119.	115.	2.84
ROUTED TO	F1-1F	2106.	12.67	427.	119.	114.	2.84
HYDROGRAPH AT	F2	1928.	12.42	376.	96.	92.	2.88
2 COMBINED AT	1F	3861.	12.58	794.	212.	204.	5.72
ROUTED TO	1F-2F	3629.	12.83	794.	212.	204.	5.72
HYDROGRAPH AT	F3	253.	12.33	33.	8.	8.	.37
HYDROGRAPH AT	RTV-2F	0.	.08	0.	0.	0.	2.97
3 COMBINED AT	2F	3694.	12.75	823.	219.	211.	6.09
DIVERSION TO	2F-D	615.	12.75	40.	10.	10.	6.09
HYDROGRAPH AT	DIV-2F	3080.	12.75	783.	209.	201.	6.09
ROUTED TO	2F-2E	2925.	13.42	782.	207.	200.	6.09
HYDROGRAPH AT	E3	1569.	12.92	331.	83.	80.	2.52
HYDROGRAPH AT	F4	1728.	12.50	262.	66.	63.	2.25
4 COMBINED AT	2E	6208.	13.08	1693.	437.	421.	13.83
ROUTED TO	2E-3E	5796.	13.67	1687.	435.	419.	13.83
HYDROGRAPH AT	H1	505.	12.67	85.	21.	21.	1.06
HYDROGRAPH AT	RTV-1H	615.	12.75	40.	10.	10.	6.09
ROUTED TO	D2F-2H	494.	13.00	40.	10.	10.	6.09
2 COMBINED AT	1H	860.	13.00	130.	33.	31.	1.06
DIVERSION TO	1H-D	0.	.08	0.	0.	0.	1.06
HYDROGRAPH AT	DIV-1H	860.	13.00	130.	33.	31.	1.06
ROUTED TO	1H-3E	623.	14.00	129.	33.	31.	1.06
HYDROGRAPH AT	E4	474.	12.83	94.	24.	23.	.79
HYDROGRAPH AT	H2	611.	13.00	137.	34.	33.	1.42
4 COMBINED AT	3E	6256.	13.67	1955.	505.	486.	17.10

ROUTED TO	3E-4E	5922.	14.25	1946.	503.	484.	17.10
HYDROGRAPH AT	J1	868.	12.83	176.	44.	42.	1.77
HYDROGRAPH AT	RTV-1J	0.	.08	0.	0.	0.	1.06
2 COMBINED AT	1J	868.	12.83	176.	44.	42.	1.77
DIVERSION TO	1J-D	0.	.08	0.	0.	0.	1.77
HYDROGRAPH AT	DIV-1J	868.	12.83	176.	44.	42.	1.77
ROUTED TO	1J-4E	460.	15.67	151.	41.	40.	1.77
HYDROGRAPH AT	J2	1396.	13.42	402.	101.	97.	3.66
HYDROGRAPH AT	K1	1281.	12.33	239.	68.	66.	1.54
ROUTED TO	K1-1K	953.	13.42	238.	68.	65.	1.54
HYDROGRAPH AT	K2	1096.	13.42	331.	83.	80.	2.42
HYDROGRAPH AT	RTV-1K	0.	.08	0.	0.	0.	1.77
3 COMBINED AT	1K	2042.	13.42	567.	151.	145.	3.96
DIVERSION TO	1K-D	0.	.08	0.	0.	0.	3.96
HYDROGRAPH AT	DIV-1K	2042.	13.42	567.	151.	145.	3.96
ROUTED TO	1K-4E	1661.	14.75	563.	149.	143.	3.96
HYDROGRAPH AT	K3	688.	13.17	171.	43.	41.	1.65
HYDROGRAPH AT	E5	760.	12.92	160.	40.	39.	1.36
6 COMBINED AT	4E	7209.	14.33	3030.	804.	775.	29.50
ROUTED TO	4E-5E	7120.	14.58	3020.	802.	773.	29.50
HYDROGRAPH AT	E6	285.	12.08	28.	7.	7.	.21
2 COMBINED AT	5E	7120.	14.58	3022.	808.	779.	29.71
HYDROGRAPH AT	L1	2632.	12.33	538.	151.	146.	3.48
ROUTED TO	L1-1L	2270.	13.08	537.	150.	144.	3.48
HYDROGRAPH AT	L2	2877.	13.50	876.	219.	211.	7.32
HYDROGRAPH AT	RTV-1L	0.	.08	0.	0.	0.	3.96
3 COMBINED AT	1L	4535.	13.33	1361.	355.	342.	10.80
DIVERSION TO	1L-D	0.	.08	0.	0.	0.	10.80
HYDROGRAPH AT	DIV-1L	4535.	13.33	1361.	355.	342.	10.80
ROUTED TO	1L-2L	4318.	14.08	1355.	353.	340.	10.80

HYDROGRAPH AT	L3	4001.	12.83	825.	206.	199.	6.85
2 COMBINED AT	2L	4628.	14.00	2049.	534.	514.	17.65
HYDROGRAPH AT	M5	616.	12.50	92.	23.	22.	.76
HYDROGRAPH AT	RTVBES	0.	.08	0.	0.	0.	10.80
4 COMBINED AT	BES1	10160.	14.42	4846.	1290.	1243.	48.12
HYDROGRAPH AT	M1	2218.	12.50	538.	153.	147.	3.32
HYDROGRAPH AT	M2	1195.	12.42	266.	77.	75.	1.68
HYDROGRAPH AT	M3	650.	12.08	78.	21.	20.	.54
3 COMBINED AT	1M	3623.	12.42	872.	249.	240.	5.54
ROUTED TO	1M-2M	2863.	14.08	871.	245.	236.	5.54
HYDROGRAPH AT	M4	2795.	13.67	942.	239.	230.	8.18
2 COMBINED AT	2M	4947.	13.92	1727.	461.	444.	13.72
HYDROGRAPH AT	N1	1475.	12.17	200.	54.	52.	1.46
ROUTED TO	N1-1N	966.	13.50	200.	53.	51.	1.46
HYDROGRAPH AT	N2	1774.	13.42	512.	129.	125.	4.13
2 COMBINED AT	1N	2697.	13.42	704.	181.	174.	5.59
HYDROGRAPH AT	P1	483.	12.00	49.	13.	13.	.37
ROUTED TO	P1-1P	422.	12.25	49.	13.	13.	.37
HYDROGRAPH AT	P2	1065.	12.33	195.	53.	51.	1.43
2 COMBINED AT	1P	1467.	12.33	244.	66.	64.	1.80
ROUTED TO	1P-2P	1151.	13.17	244.	66.	63.	1.80
HYDROGRAPH AT	P3	1860.	12.75	378.	101.	97.	2.76
2 COMBINED AT	2P	2585.	12.92	619.	166.	160.	4.56
HYDROGRAPH AT	Q1	992.	12.25	154.	43.	41.	1.09
ROUTED TO	Q1-1Q	795.	12.75	154.	43.	41.	1.09
HYDROGRAPH AT	Q2	950.	12.75	191.	52.	51.	1.29
2 COMBINED AT	1Q	1739.	12.75	344.	95.	91.	2.38
4 COMBINED AT	BES2W	7550.	13.50	3130.	835.	804.	26.25
HYDROGRAPH AT	R1	399.	12.08	41.	11.	11.	.30
HYDROGRAPH AT	S1	1397.	12.25	214.	57.	55.	1.46

HYDROGRAPH AT	T1	2214.	12.42	458.	124.	120.	2.96
HYDROGRAPH AT	U1	1404.	12.25	217.	58.	56.	1.39
4 COMBINED AT	BES2E	4984.	12.25	912.	245.	236.	6.11
2 COMBINED AT	BES2	8340.	12.67	3889.	1041.	1003.	32.36
HYDROGRAPH AT	V1	547.	12.33	100.	28.	27.	.70
HYDROGRAPH AT	W1	3010.	12.33	580.	164.	158.	3.95
ROUTED TO	W1-1W	2792.	12.67	580.	164.	158.	3.95
HYDROGRAPH AT	W2	2280.	12.25	336.	87.	83.	2.69
2 COMBINED AT	1W	3868.	12.58	896.	245.	236.	6.64
HYDROGRAPH AT	X1	646.	12.25	107.	30.	29.	.77
HYDROGRAPH AT	Y1	707.	12.08	79.	22.	21.	.57
4 COMBINED AT	BES3	5024.	12.42	1152.	317.	305.	8.68

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