PRELIMINARY ENGINEERING REPORT

INVESTIGATING THE FEASIBILITY OF CONSTRUCTING RAW WATER IMPOUNDMENTS DOWNSTREAM OF MEADOW PARK LAKE

FOR

CITY OF CROSSVILLE

DECEMBER 2001

PREPARED BY

LD&A

Lamar Dunn & Associates, inc.

3305 Maloney Road
Knoxville, Tennessee 37920
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www.ldassoc.com

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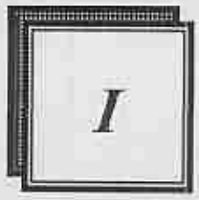
INTRODUCTION



SECTION I

INTRODUCTION

The City of Crossville is the central water provider for most of Cumberland County. It provides water to the citizens of Crossville as well as some outside the City. The City also provides water to utility districts for resale. Therefore, as the City investigates the long-term water needs, that investigation must also include the needs of the utility district as well.

The State Legislature established a water authority for Cumberland County. The members of the Authority include the utility districts; however, the City is currently not a member. There has been no evidence of the authority developing plans for providing a raw water source. Therefore, the City, at this point in time, has no choice other than plan for a long-term situation of providing water to the Districts.

In 1998, the City had a water Master Plan prepared. The Master Plan established projected water needs, identified weak areas in the City's distribution system, and discussed an option for augmenting the current raw water supply. Several months after the City's Master Plan was published, the U. S Army Corps of Engineers published a Regional Water Supply Study for Cumberland County. That study was intended only to be a "screening of options" type report.

Since 1998, the City has had a report prepared which estimated the cost of obtaining a water source from the Tennessee River. In 2001, the City's engineering department located two potential sites for the construction of dams downstream of the current Meadow Park Lake dam. The engineering department established the height of the proposed structures and calculated the watershed areas and the storage volume of each of the two proposed impoundments. Figure I-1 is information provided by the City. The City authorized Lamar Dunn & Associates, Inc. to develop the safe yield of these proposed impoundments as well as estimates of construction cost. The City Council clearly instructed that the scope of services not include environmental evaluations of the projects.

STATEMENT OF WATER DEMAND

II

SECTION II

STATEMENT OF WATER DEMAND

Crossville and Cumberland County have enjoyed rapid growth in recent years. The industrial and commercial base has expanded as well as the residential base. The following figures (II-1, II-2, II-3, and II-4) reflect the projected future demands for raw/treated water.

Previous work has established the safe yield of Lake Holiday at six (6) million gallons per day (MGD) and Meadow Park Lake at 3.6 MGD.

The original Lake Holiday Water Treatment Plan was constructed in 1968 and expanded in 1975. The 1975 design capacity was 3.0 MGD. Recently, the plant has been expanded again to produce 4.0 MGD.

Currently, there is a water treatment plant at Meadow Park Lake whose design capacity is 2.0 MGD. The original plant at Meadow Park Lake was constructed in 1937. The City has a new replacement treatment plant under construction at Meadow Park Lake. The new plant should be operational in 2002 with a design capacity of 3.5 MGD.

The two City facilities will have a combined total production capacity of 7.5 MGD. If one assumes a 5% growth rate and an average daily demand of 7.5 MGD the current raw water facilities should be adequate until slightly past 2015 (See Figure II-1).

However, the treatment capacity for a peak day may be reached around 2010 (See Figure II-2).

As the projected demands are reviewed for the City alone (without the utility district), it can be seen that these facilities will reach the capacity in 2017. Therefore, it is incumbent on the City to be prepared with a new water source before that date, even if the utility districts find sources of their own (See Figures II-3 and II-4).

FIGURE II - 1

City of Crossville Water Demand Projections
City Customers & Utility Districts

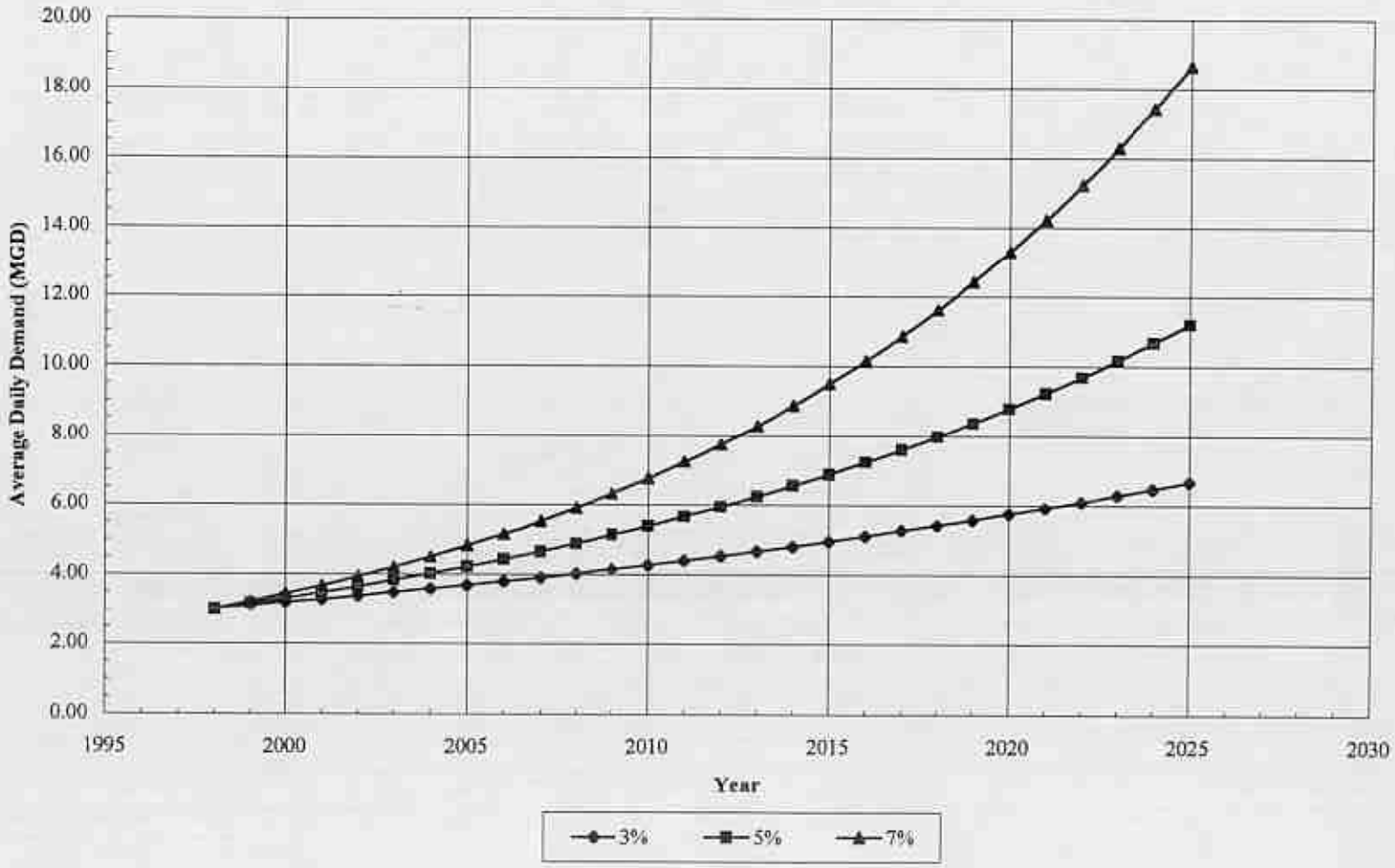


FIGURE II - 2

City of Crossville Water Demand Projections
City Customers & Utility Districts

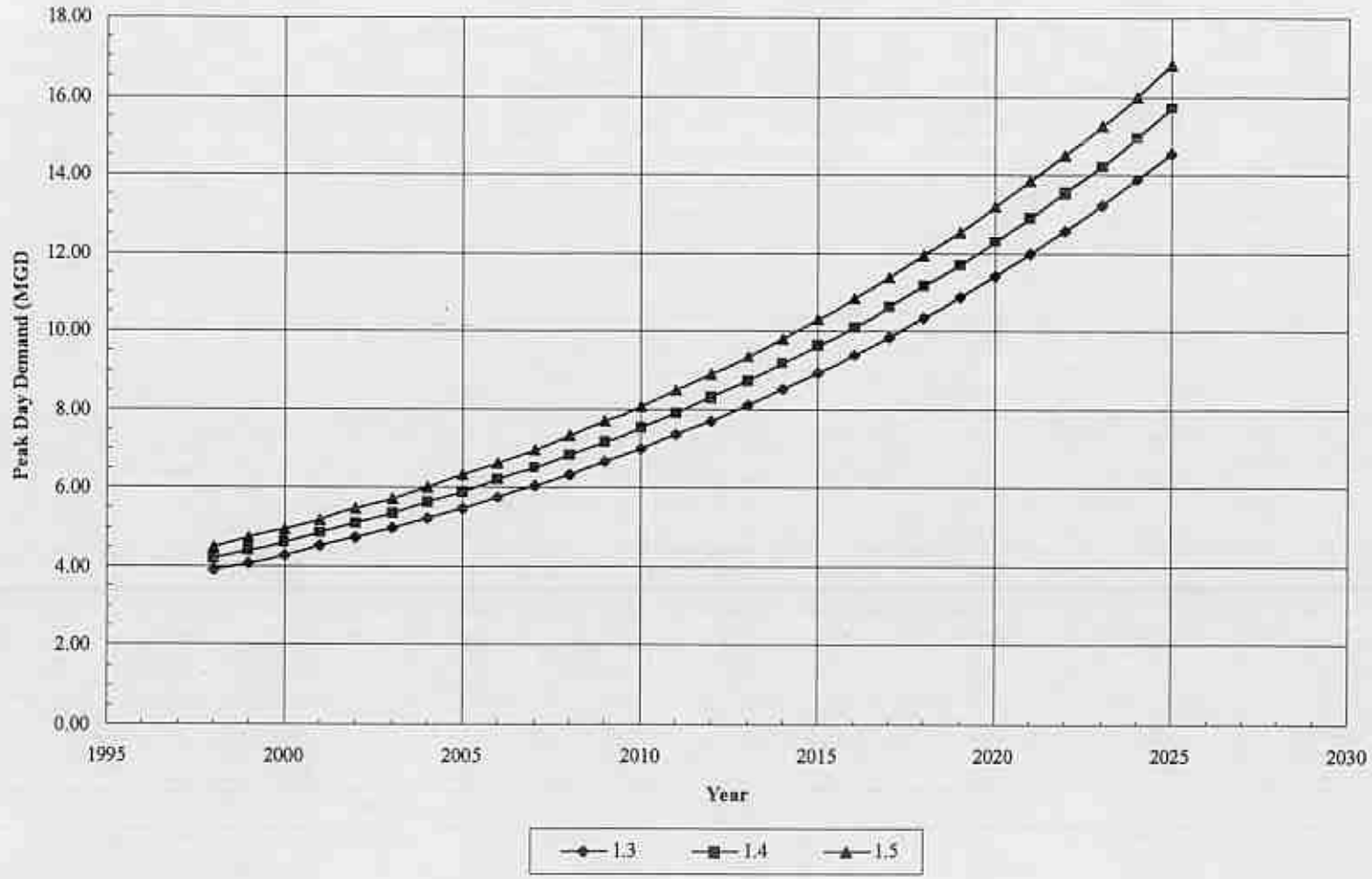


FIGURE II - 3

City of Crossville Projected Water Demand
City Customers Only

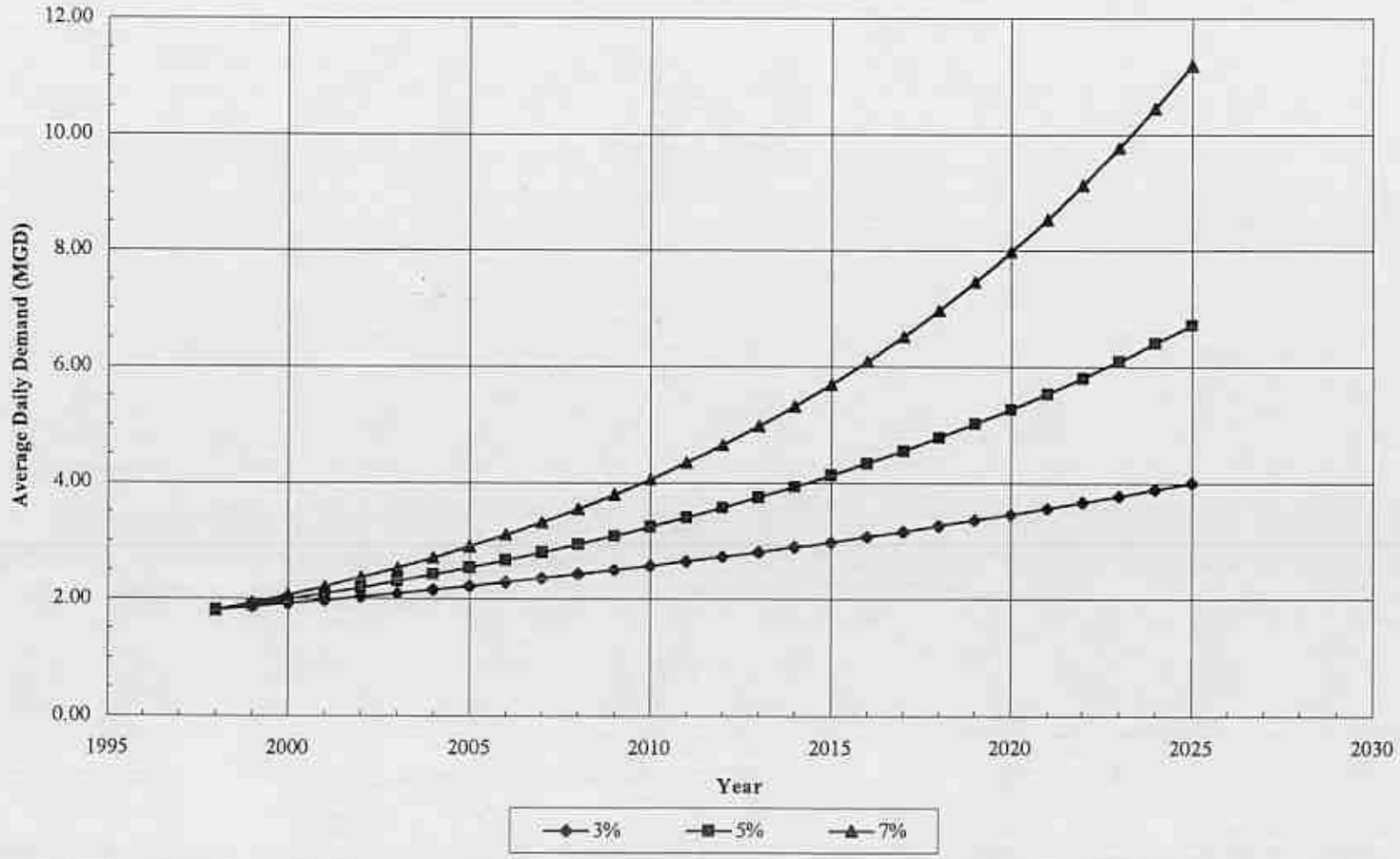
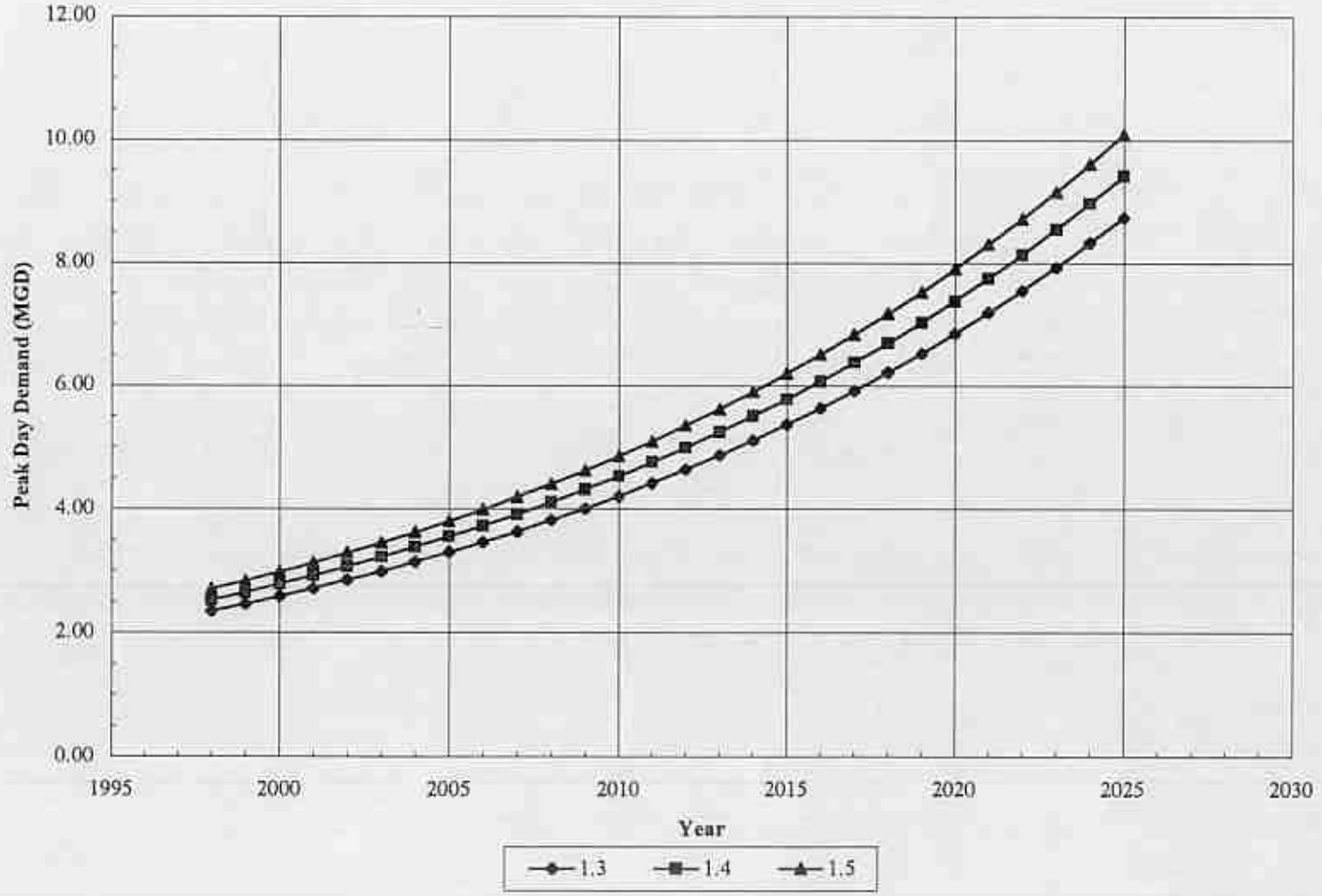
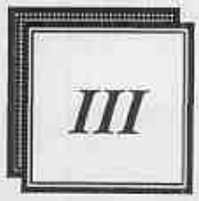


FIGURE II - 4

City of Crossville Water Demand Projections
City Customers Only



ALTERNATE ONE DESCRIPTION



SECTION III

ALTERNATE ONE

The City proposed that the safe yield of an impoundment be investigated which would be located downstream of the current Meadow Park Lake. The proposed structure would be higher than the current dam; thus backing water over the existing reservoir in addition to the area downstream of the current dam. Figure III-1 shows the alternate proposed by the City.

The City calculated the current water shed to contain 3,300 acres and the new impoundment would add another 1,070 acres. With a new structure retaining water to an elevation of 1,820, approximately 4,000 million gallons of raw water could be stored.

The staff at Lamar Dunn & Associates, Inc. used a software package developed by the U.S. Army Corps of Engineers to perform the computer investigation of the proposed new reservoir. Print-outs of the computer analysis are displayed in Appendix A.

The Corps of Engineers rejected a similar option in their 1998 study.

It is projected that with the proposed new impoundment a safe yield totaling 8.0 MGD could be expected. The safe yield calculations include anticipated continual discharge of 4.0 cfs for environmental reasons.

However, since environmental considerations were not within the scope of this study, no representations are being made as to the probability of securing the necessary permits to construct the proposed facility.

Project cost estimates are included in Section V. There has been no geotechnical investigation of the site; however, for the purpose of this study, it is assumed that the area would in fact "hold water". The proposed structure is approximately 1,000 feet long and approximately 85 feet high. There are two basic approaches to building this dam. The first is to build a structure of concrete, and the second is to construct it of earth.

As a dam design is being contemplated, methods must be reviewed as to how to pass the maximum probable storm through a spillway or construct a facility with enough storage to retain the entire flood from that storm. It is not considered practical to attempt to store that volume at this location; therefore, a spillway of sufficient size must be designed. Due to the terrain, it is considered impractical to have a "by-pass type" spillway. The design should accommodate the spillway over the dam; thus dictating a concrete spillway. A combination earth-fill dam and concrete dam might be considered. If an earth-fill dam is constructed, an adequate volume of earth must be available with the proper characteristics. A dense clay would be required. It is not known where the closest source of suitable clay material might exist. For the purposes of this investigation, it will be assumed that suitable clay is readily available.

The impounding structure whose estimate of cost is shown in Section V is one with a 150 feet concrete spillway section and 850 feet of earth-fill structure. If suitable earth material is not readily available, its cost will be significantly more.

ALTERNATE TWO DESCRIPTION

IV

SECTION IV

ALTERNATE TWO

In addition to the project described in Section III, the City proposed another alternate. This proposal would be to move farther downstream from Alternate One and construct a dam which would be totally independent of the current Meadow Park Lake (See Figure IV-1). This proposed impoundment would have a watershed of 2,830 acres and would retain 3,629 million gallons of water. The proposed structure is essentially the same as Alternate One.

The methods of investigating the safe yield of the proposed reservoir are identical to those employed with Alternate One. The computer print-outs from this investigation are in Appendix B.

The estimated safe yield of this proposed alternate is also 8.0 MGD. The projected estimates of cost are shown in Section V, along with the estimates for Alternate One.

The issues of spillway, environment, and availability of materials for construction are identical to Alternate One. However, due to the terrain, a second low dam will be required to minimize the area to be flooded, which adds to the cost.

OPINION OF PROBABLE COST

V

SECTION V

OPINION OF PROBABLE COST

The level of cost estimate for this study is very preliminary, and is developed without detailed survey information for volumes of materials, nor geotechnical data. The two alternates are shown side by side since they are similar.

TABLE V-1
OPINION OF PROBABLE COST

ITEM	ALTERNATE I	ALTERNATE II
Land Acquisition	$ 300,000.00	$ 500,000.00
Geotechnical Investigation	$ 100,000.00	$ 100,000.00
Dam Construction	$ 12,000,000.00	$ 12,225,000.00
Environmental Permitting	$ 200,000.00	$ 200,000.00
Intake	$ 500,000.00	$ 500,000.00
Raw Water Piping	$ 1,400,000.00	$ 2,100,000.00
Contingency Including Engineering	$ 4,400,000.00	$ 4,700,000.00
Total Estimated Cost	$ 18,900,000.00	$ 20,325,000.00

CONCLUSIONS AND RECOMMENDATIONS

VI

SECTION VI

CONCLUSIONS AND RECOMMENDATIONS

Crossville and Cumberland County are located in a geographical area which does not have an abundant amount of water resources. The current treatment capacities (upon completion of the new Meadow Park Plant will be adequate for less than ten years of projected growth. In order to increase the raw water resources locally, a dam would be required which will necessitate considerable environmental work for permitting.

The two alternate proposals only increase the safe yield slightly more than 100% of the current Meadow Park Lake. If raw water resources are to be developed, they should look at approximately fifty (50) years rather than ten (10) to fifteen (15) years.

A possible way to extend the safe yield of these reservoirs would be to implement water harvesting as the Corps of Engineers suggested in their report. If the City wishes to pursue one of the alternates, it should be Alternate One. The initial action to implement either alternative would be to have the environmental permitting completed before other action begins.

APPENDIX A

ALTERNATE NO. 1 - EXPANSION OF EXISTING LAKE AT NWSE =1820.00'

DRY ELEV.= 1755'

1922-1927 DROUGHT (INITIAL API = 2.06)

4 MGD WITHDRAWAL

START DATE	INITIAL API	POOL ELEV. (FEET)	EVAP LOSS (FEET)	START ELEV. (FEET)	LOW ELEV. (FEET)	LOW DATE	END ELEV. (FEET)	END API
17-Jun-21	2.06	1820.00	2.00	1818.00	1815.80	13-Nov-21	1820.00	2.56
17-Jun-22	2.56	1820.00	2.00	1818.00	1817.90	16-Nov-21	1820.00	2.49
17-Jun-23	2.49	1820.00	2.00	1818.00	1816.90	1-Jun-24	1819.70	1.21
17-Jun-24	1.21	1819.70	2.00	1817.70	1813.40	4-Dec-24	1817.10	0.319
17-Jun-25	0.319	1817.10	2.00	1815.10	1811.80	12-Oct-25	1814.60	2.44
17-Jun-26	2.44	1814.60	2.00	1812.60	1812.60	17-Jun-26	1820.10	3.47
17-Jun-27	3.47	1820.10	2.00	1818.10	1817.40	15-Nov-27	1820.10	

6 MGD WITHDRAWAL

START DATE	INITIAL API	POOL ELEV. (FEET)	EVAP LOSS (FEET)	START ELEV. (FEET)	LOW ELEV. (FEET)	LOW	END ELEV. T)	END API
17-Jun-21	2.06	1820.00	2.00	1818.00			.00	2.56
17-Jun-22	2.56	1820.00	2.00	1818.00			.00	2.49
17-Jun-23	2.49	1820.00	2.00	1818.00			.10	1.21
17-Jun-24	1.21	1817.10	2.00	1815.10			.10	0.319
17-Jun-25	0.319	1810.10	2.00	1808.10			10	2.44
17-Jun-26	2.44	1802.10	2.00	1800.00			80	3.47
17-Jun-27	3.47	1814.80	2.00	1812.80			80	

Appendix A

8 MGD WITHDRAWAL

START DATE	INITIAL API	POOL ELEV. (FEET)	EVAP LOSS (FEET)	START ELEV. (FEET)	LOW ELEV. (FEET)	LOW DATE	END ELEV. (FEET)	END API
17-Jun-21	2.06	1820.00	2.00	1818.00	1811.00	3-Jan-22	1819.40	2.56
17-Jun-22	2.56	1819.40	2.00	1817.40	1815.10	1-Dec-22	1819.20	2.49
17-Jun-23	2.49	1819.20	2.00	1817.20	1811.40	18-Feb-24	1812.10	1.21
17-Jun-24	1.21	1812.10	2.00	1810.10	1798.00	17-Jun-25	1798.00	0.319
17-Jun-25	0.319	1798.00	2.00	1796.00	1772.90	17-Jun-26	1772.90	2.44
17-Jun-26	2.44	1772.90	2.00	1770.90	1762.40	9-Nov-26	1796.90	3.47
17-Jun-27	3.47	1796.90	2.00	1794.90	1786.40	15-Nov-27	1800.00	

ALTERNATE NO. 1 - EXPANSION OF EXISTING LAKE AT NWSE =1820.00'

DRY ELEV.= 1755'

1940-1942 DROUGHT (INITIAL API = 2.43)

8 MGD WITHDRAWAL

START DATE	INITIAL API	POOL ELEV. (FEET)	EVAP LOSS (FEET)	START ELEV. (FEET)	LOW ELEV. (FEET)	LOW DATE	END ELEV. (FEET)	END API
21-Apr-39	2.43	1820.00	2.00	1818.00	1805.90	09-Feb-40	1809.60	2.28
21-Apr-40	2.28	1809.60	2.00	1807.60	1788.00	03-Apr-41	1792.90	1.38
21-Apr-41	1.38	1792.90	2.00	1790.90	1766.10	22-Nov-41	1774.60	0.913
21-Apr-42	0.913	1774.60	2.00	1772.60	1763.80	07-Jun-42	1794.10	

1952-1954 DROUGHT (INITIAL API = 2.92)

8 MGD WITHDRAWAL

START DATE	INITIAL API	POOL ELEV. (FEET)	EVAP LOSS (FEET)	START ELEV. (FEET)	LOW ELEV. (FEET)	LOW DATE	END ELEV. (FEET)	END API
26-Apr-51	2.92	1820.00	2.00	1818.00	1809.70	03-Oct-51	1817.20	1.28
26-Apr-52	1.28	1817.20	2.00	15.20	1804.00	04-Dec-52	1807.40	1.65
26-Apr-53	1.65	1807.40	2.00	1805.40	1794.00	07-Dec-53	1806.40	

1986-1988 DROUGHT (INITIAL API = 1.30)

8 MGD WITHDRAWAL

START DATE	INITIAL API	POOL ELEV. (FEET)	EVAP LOSS (FEET)	START ELEV. (FEET)	LOW ELEV. (FEET)	LOW DATE	END ELEV. (FEET)	END API
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02-Mar-86	1.77	1809.30	2.00	1807.30	1796.60	06-Nov-86	1802.30	2.35
02-Mar-87	2.35	1802.90	2.00	1800.90	1787.40	01-Mar-88	1787.40	0.992
02-Mar-88	0.992	1787.40	2.00	1785.40	1760.20	04-Nov-88	1787.20	

ALTERNATE NO. 1
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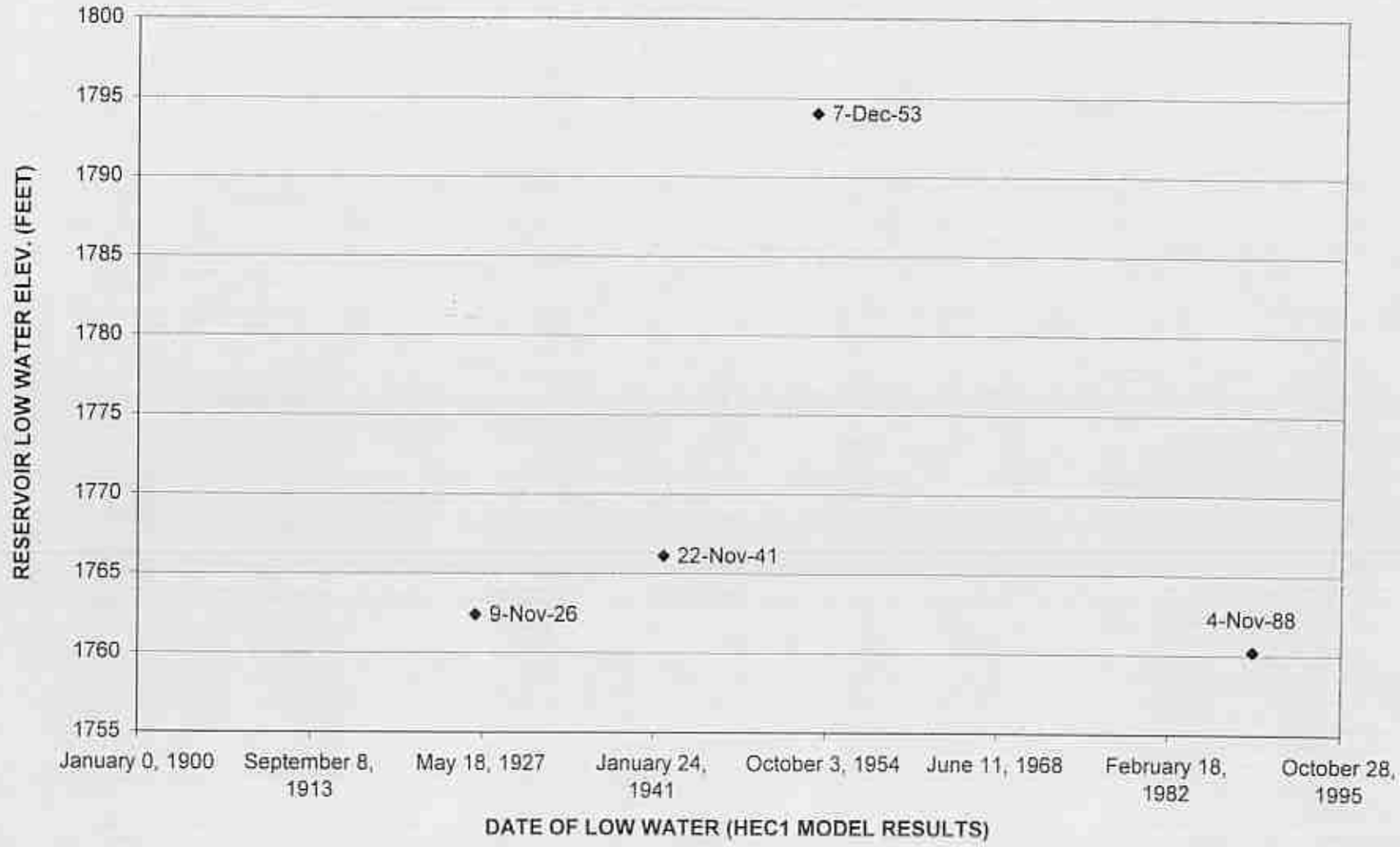

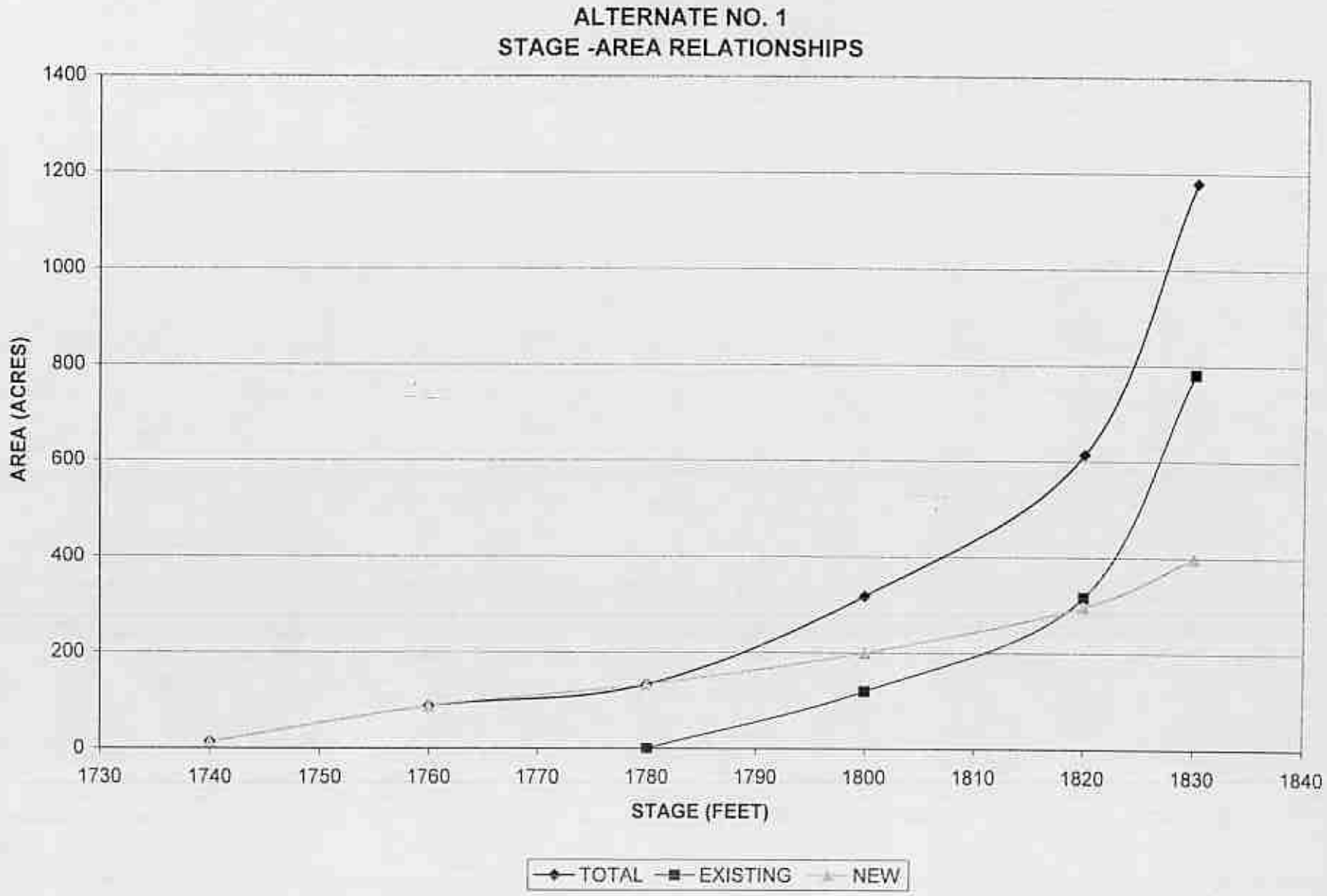
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1830
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*  HYDROLOGIC ENGINEERING CENTER    *
*       609 SECOND STREET           *
*     DAVIS, CALIFORNIA 95616       *
*       (916) 551-1748              *
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THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
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1 HEC-1 INPUT PAGE 1

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       24           KM   COMBINE SUB1 AND SUB2
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       26           HC       2

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*  HYDROLOGIC ENGINEERING CENTER    *
*       609 SECOND STREET           *
*     DAVIS, CALIFORNIA 95616       *
*       (916) 551-1748              *
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CUMBERLAND COUNTY, TN WATER SUPPLY STUDY
MEADOW PARK LAKE
ALTERNATE NO. 1 - LAKE EXPANSION AT ELEV. 1820.00
YIELD ANALYSIS

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

JP MULTI-PLAN OPTION
NPLAN 2 NUMBER OF PLANS

JR MULTI-RATIO OPTION
RATIOS OF RUNOFF
1.00

*** ***

8 KK ************** SUB1 **************

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TAREA 5.78 SUBBASIN AREA

PRECIPITATION DATA

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0.00	0.00	0.42	0.36	0.00	0.00	0.01	0.00	0.17	0.15
0.00	0.29	1.28	0.88	0.24	0.21	0.19	0.16	0.39	0.28
0.03	0.00	0.33	0.45	0.12	0.10	0.00	0.03	0.38	0.30
0.13	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.94
0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.39	0.32	0.11
0.09	0.00	0.00	0.00	0.01	0.03	0.01	0.00	0.00	0.00
0.00	0.03	0.14	0.17	0.06	0.02	0.02	0.00	0.18	0.15
0.00	0.02	0.28	0.22	0.02	0.43	0.37	0.00	0.24	0.33
0.35	0.31	0.09	0.00	0.05	0.05	0.00	0.06	0.05	0.00
0.00	0.00	0.06	0.36	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.19	0.16	0.00	0.00	0.33	0.74	0.42	0.03	0.00
0.00	0.00	0.00	0.00	0.18	0.17	0.02	0.03	0.15	0.86
0.38	0.19	0.52	0.30	0.40	0.33	0.00	0.00	0.00	0.02
0.02	0.04	0.35	0.36	0.24	0.00	0.00	0.19	0.17	0.18
0.15	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.34	0.28	0.00	0.05	0.11	0.06	0.00	0.38
0.32	0.00	0.00	0.00	0.11	0.09	0.00	0.00	0.00	0.00
0.88	0.54	0.00	0.00	0.08	0.07	0.16	0.42	0.24	0.22
0.18	0.00	0.27	0.28	0.05	0.53	0.48	0.37	0.29	0.05
0.05	0.00	0.00	0.16	0.14	0.00	0.00	0.00	0.10	0.09
0.00	0.11	0.30	0.18	0.03	0.03	0.01	0.01	0.00	0.00
0.00	0.31	0.98	0.61	0.00	0.00	0.00	0.00	0.06	0.07
0.21	0.18	0.00	0.05	0.10	0.05	1.35	1.31	0.14	0.02
0.01	0.00	0.35	0.29	0.14	0.92	0.67	0.00	0.00	0.11
0.73	0.54	0.00	0.00	0.15	0.17	0.03	0.00	0.00	0.00
0.00	0.00	0.30	0.42	0.00	0.00	1.00	0.84	0.00	0.00
0.00	0.25	0.37	0.13	0.00	0.42	0.35	0.29	0.25	0.00
0.00	0.64	0.55	0.00	0.86	0.78	0.05	0.00	0.03	0.03
0.00	0.00	0.48	0.33	1.24	1.11	0.04	0.00	0.04	0.35
0.76	0.41	0.83	0.45	0.00	0.00	0.07	0.13	0.09	0.01
0.00	0.00	0.11	0.15	0.37	0.30	0.03	0.22	0.68	0.42
0.08	0.07	0.00	0.12	0.11	0.00	0.00	0.00	0.36	1.01
0.80	0.31	0.28	0.01	0.37	0.31	0.00	0.42	0.43	0.08
0.03	0.04	0.21							

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 14 LE          EXPONENTIAL LOSS RATE
                     STRKR       0.00  INITIAL VALUE OF LOSS COEFFICIENT
                     DLTKR       0.00  INITIAL LOSS
                     RTIOL       0.00  LOSS COEFFICIENT RECESSION CONSTANT
                     ERAIN       0.00  EXPONENT OF PRECIPITATION
                     STRIMP      1.00  PERCENT IMPERVIOUS AREA

 16 UC          CLARK UNITGRAPH
                     TC          0.76  TIME OF CONCENTRATION
                     R           0.76  STORAGE COEFFICIENT

                SYNTHETIC ACCUMULATED-AREA VS. TIME CURVE WILL BE USED

                                                    ...

R INCREASED TO MINIMUM OF 0.5
-----DSS---WRITE Unit  71 Vers.   01:  /MEADOW/API/01JAN1921/1DAY/COMPUTED/
-----DSS---WRITE Unit  71 Vers.   71:  /MEADOW/API/01JAN1922/1DAY/COMPUTED/

                                        UNIT HYDROGRAPH PARAMETERS
                                   CLARK   TC= 24.00 HR.       R= 12.00 HR
                                  SNYDER   TP= 18.96 HR.      CP=  0.58

                                          UNIT HYDROGRAPH
                                       2 END-OF-PERIOD ORDINATES
                 79.       79.
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HYDROGRAPH AT STATION SUB1

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
17	JUN	0100	1	0.00	0.00	0.00	13.		17	DEC	0100	184	0.34	0.25	0.09	7.
18	JUN	0100	2	0.00	0.00	0.00	11.		18	DEC	0100	185	0.29	0.22	0.06	14.
19	JUN	0100	3	0.27	0.27	0.00	9.		19	DEC	0100	186	0.00	0.00	0.00	8.
20	JUN	0100	4	0.23	0.23	0.00	8.		20	DEC	0100	187	0.05	0.05	0.00	3.
21	JUN	0100	5	0.00	0.00	0.00	6.		21	DEC	0100	188	0.11	0.10	0.00	2.
22	JUN	0100	6	0.00	0.00	0.00	6.		22	DEC	0100	189	0.06	0.06	0.00	3.
23	JUN	0100	7	0.00	0.00	0.00	5.		23	DEC	0100	190	0.00	0.00	0.00	1.
24	JUN	0100	8	0.00	0.00	0.00	4.		24	DEC	0100	191	0.36	0.20	0.16	15.
25	JUN	0100	9	0.00	0.00	0.00	3.		25	DEC	0100	192	0.32	0.18	0.14	28.
26	JUN	0100	10	0.00	0.00	0.00	3.		26	DEC	0100	193	0.00	0.00	0.00	16.
27	JUN	0100	11	0.00	0.00	0.00	2.		27	DEC	0100	194	0.00	0.00	0.00	4.
28	JUN	0100	12	0.00	0.00	0.00	2.		28	DEC	0100	195	0.00	0.00	0.00	3.
29	JUN	0100	13	0.17	0.17	0.00	2.		29	DEC	0100	196	0.11	0.11	0.00	3.
30	JUN	0100	14	0.15	0.15	0.00	1.		30	DEC	0100	197	0.09	0.09	0.00	2.
1	JUL	0100	15	0.27	0.27	0.00	1.		31	DEC	0100	198	0.00	0.00	0.00	2.
2	JUL	0100	16	0.45	0.44	0.00	1.		1	JAN	0100	199	0.00	0.00	0.00	1.
3	JUL	0100	17	0.18	0.18	0.00	1.		2	JAN	0100	200	0.00	0.00	0.00	1.
4	JUL	0100	18	0.00	0.00	0.00	2.		3	JAN	0100	201	0.00	0.00	0.00	1.
5	JUL	0100	19	0.00	0.00	0.00	1.		4	JAN	0100	202	0.68	0.35	0.33	26.
6	JUL	0100	20	0.11	0.11	0.00	1.		5	JAN	0100	203	0.54	0.23	0.30	55.
7	JUL	0100	21	0.09	0.09	0.00	1.		6	JAN	0100	204	0.00	0.00	0.00	33.
8	JUL	0100	22	0.00	0.00	0.00	1.		7	JAN	0100	205	0.00	0.00	0.00	7.
9	JUL	0100	23	0.00	0.00	0.00	0.		8	JAN	0100	206	0.08	0.08	0.00	6.
10	JUL	0100	24	0.42	0.42	0.00	1.		9	JAN	0100	207	0.07	0.07	0.00	5.
11	JUL	0100	25	0.36	0.36	0.00	2.		10	JAN	0100	208	0.16	0.14	0.02	6.
12	JUL	0100	26	0.00	0.00	0.00	2.		11	JAN	0100	209	0.42	0.21	0.21	21.
13	JUL	0100	27	0.00	0.00	0.00	1.		12	JAN	0100	210	0.24	0.11	0.13	33.
14	JUL	0100	28	0.01	0.01	0.00	1.		13	JAN	0100	211	0.22	0.11	0.11	24.
15	JUL	0100	29	0.00	0.00	0.00	1.		14	JAN	0100	212	0.18	0.10	0.08	20.
16	JUL	0100	30	0.17	0.17	0.00	1.		15	JAN	0100	213	0.00	0.00	0.00	11.
17	JUL	0100	31	0.15	0.15	0.00	1.		16	JAN	0100	214	0.27	0.12	0.15	15.
18	JUL	0100	32	0.00	0.00	0.00	1.		17	JAN	0100	215	0.28	0.12	0.16	29.
19	JUL	0100	33	0.29	0.29	0.00	1.		18	JAN	0100	216	0.09	0.05	0.05	18.
20	JUL	0100	34	1.28	1.10	0.17	14.		19	JAN	0100	217	0.53	0.16	0.37	33.
21	JUL	0100	35	0.88	0.72	0.16	33.		20	JAN	0100	218	0.48	0.15	0.33	45.
22	JUL	0100	36	0.24	0.24	0.00	27.		21	JAN	0100	219	0.37	0.14	0.24	54.
23	JUL	0100	37	0.21	0.21	0.00	23.		22	JAN	0100	220	0.29	0.12	0.17	47.
24	JUL	0100	38	0.19	0.19	0.00	11.		23	JAN	0100	221	0.05	0.05	0.00	23.
25	JUL	0100	39	0.16	0.16	0.00	9.		24	JAN	0100	222	0.05	0.05	0.00	8.
26	JUL	0100	40	0.30	0.29	0.00	8.		25	JAN	0100	223	0.00	0.00	0.00	6.
27	JUL	0100	41	0.28	0.28	0.00	8.		26	JAN	0100	224	0.00	0.00	0.00	5.
28	JUL	0100	42	0.03	0.03	0.00	9.		27	JAN	0100	225	0.16	0.10	0.06	9.
29	JUL	0100	43	0.00	0.00	0.00	6.		28	JAN	0100	226	0.14	0.09	0.05	12.
30	JUL	0100	44	0.53	0.52	0.01	6.		29	JAN	0100	227	0.00	0.00	0.00	6.
31	JUL	0100	45	0.45	0.45	0.00	9.		30	JAN	0100	228	0.00	0.00	0.00	2.
1	AUG	0100	46	0.12	0.12	0.00	10.		31	JAN	0100	229	0.00	0.00	0.00	2.
2	AUG	0100	47	0.10	0.10	0.00	8.		1	FEB	0100	230	0.10	0.10	0.00	1.
3	AUG	0100	48	0.00	0.00	0.00	6.		2	FEB	0100	231	0.09	0.09	0.00	1.
4	AUG	0100	49	0.03	0.03	0.00	5.		3	FEB	0100	232	0.00	0.00	0.00	1.
5	AUG	0100	50	0.38	0.38	0.00	4.		4	FEB	0100	233	0.11	0.11	0.00	1.
6	AUG	0100	51	0.30	0.30	0.00	6.		5	FEB	0100	234	0.30	0.18	0.13	10.
7	AUG	0100	52	0.13	0.13	0.00	6.		6	FEB	0100	235	0.18	0.14	0.04	19.
8	AUG	0100	53	0.11	0.11	0.00	5.		7	FEB	0100	236	0.03	0.03	0.00	5.
9	AUG	0100	54	0.00	0.00	0.00	4.		8	FEB	0100	237	0.03	0.03	0.00	2.
10	AUG	0100	55	0.00	0.00	0.00	3.		9	FEB	0100	238	0.01	0.01	0.00	1.
11	AUG	0100	56	0.00	0.00	0.00	2.		10	FEB	0100	239	0.01	0.01	0.00	1.
12	AUG	0100	57	0.00	0.00	0.00	2.		11	FEB	0100	240	0.00	0.00	0.00	1.
13	AUG	0100	58	0.00	0.00	0.00	1.		12	FEB	0100	241	0.00	0.00	0.00	1.
14	AUG	0100	59	0.00	0.00	0.00	1.		13	FEB	0100	242	0.00	0.00	0.00	0.
15	AUG	0100	60	0.00	0.00	0.00	1.		14	FEB	0100	243	0.31	0.18	0.13	10.
16	AUG	0100	61	0.94	0.86	0.08	7.		15	FEB	0100	244	0.98	0.33	0.65	63.
17	AUG	0100	62	0.82	0.73	0.09	19.		16	FEB	0100	245	0.61	0.17	0.44	95.
18	AUG	0100	63	0.02	0.02	0.00	17.		17	FEB	0100	246	0.00	0.00	0.00	47.
19	AUG	0100	64	0.00	0.00	0.00	8.		18	FEB	0100	247	0.00	0.00	0.00	11.
20	AUG	0100	65	0.00	0.00	0.00	6.		19	FEB	0100	248	0.00	0.00	0.00	9.
21	AUG	0100	66	0.00	0.00	0.00	5.		20	FEB	0100	249	0.00	0.00	0.00	7.
22	AUG	0100	67	0.00	0.00	0.00	4.		21	FEB	0100	250	0.08	0.07	0.01	6.
23	AUG	0100	68	0.00	0.00	0.00	3.		22	FEB	0100	251	0.07	0.07	0.00	5.
24	AUG	0100	69	0.38	0.38	0.00	3.		23	FEB	0100	252	0.21	0.15	0.06	8.
25	AUG	0100	70	0.32	0.32	0.00	4.		24	FEB	0100	253	0.18	0.10	0.08	14.
26	AUG	0100	71	0.11	0.11	0.00	4.		25	FEB	0100	254	0.00	0.00	0.00	9.
27	AUG	0100	72	0.09	0.09	0.00	3.		26	FEB	0100	255	0.05	0.05	0.00	3.
28	AUG	0100	73	0.00	0.00	0.00	3.		27	FEB	0100	256	0.10	0.10	0.00	2.
29	AUG	0100	74	0.00	0.00	0.00	2.		28	FEB	0100	257	0.05	0.05	0.00	2.
30	AUG	0100	75	0.00	0.00	0.00	2.		1	MAR	0100	258	1.35	0.37	0.98	78.
31	AUG	0100	76	0.01	0.01	0.00	1.		2	MAR	0100	259	1.31	0.24	1.07	172.
1	SEP	0100	77	0.03	0.03	0.00	1.		3	MAR	0100	260	0.14	0.09	0.05	108.
2	SEP	0100	78	0.01	0.01	0.00	1.		4	MAR	0100	261	0.02	0.02	0.00	21.
3	SEP	0100	79	0.00	0.00	0.00	1.		5	MAR	0100	262	0.01	0.01	0.00	14.
4	SEP	0100	80	0.00	0.00	0.00	1.		6	MAR	0100	263	0.00	0.00	0.00	11.
5	SEP	0100	81	0.00	0.00	0.00	0.		7	MAR	0100	264	0.34	0.13	0.21	25.

6 SEP	0100	82	0.00	0.00	0.00	0.
7 SEP	0100	83	0.03	0.03	0.00	0.
8 SEP	0100	84	0.17	0.17	0.00	0.
9 SEP	0100	85	0.17	0.17	0.00	0.
10 SEP	0100	86	0.06	0.06	0.00	0.
11 SEP	0100	87	0.02	0.02	0.00	0.
12 SEP	0100	88	0.02	0.02	0.00	0.
13 SEP	0100	89	0.00	0.00	0.00	0.
14 SEP	0100	90	0.18	0.18	0.00	0.
15 SEP	0100	91	0.15	0.15	0.00	0.
16 SEP	0100	92	0.00	0.00	0.00	0.
17 SEP	0100	93	0.02	0.02	0.00	0.
18 SEP	0100	94	0.28	0.28	0.00	0.
19 SEP	0100	95	0.22	0.22	0.00	0.
20 SEP	0100	96	0.02	0.02	0.00	0.
21 SEP	0100	97	0.45	0.45	0.00	0.
22 SEP	0100	98	0.37	0.36	0.00	1.
23 SEP	0100	99	0.00	0.00	0.00	1.
24 SEP	0100	100	0.24	0.24	0.00	1.
25 SEP	0100	101	0.33	0.33	0.00	1.
26 SEP	0100	102	0.35	0.34	0.00	1.
27 SEP	0100	103	0.31	0.31	0.00	2.
28 SEP	0100	104	0.09	0.09	0.00	2.
29 SEP	0100	105	0.00	0.00	0.00	2.
30 SEP	0100	106	0.05	0.05	0.00	1.
1 OCT	0100	107	0.05	0.05	0.00	1.
2 OCT	0100	108	0.00	0.00	0.00	1.
3 OCT	0100	109	0.06	0.06	0.00	1.
4 OCT	0100	110	0.05	0.05	0.00	1.
5 OCT	0100	111	0.00	0.00	0.00	0.
6 OCT	0100	112	0.00	0.00	0.00	0.
7 OCT	0100	113	0.00	0.00	0.00	0.
8 OCT	0100	114	0.06	0.06	0.00	0.
9 OCT	0100	115	0.06	0.06	0.00	0.
10 OCT	0100	116	0.00	0.00	0.00	0.
11 OCT	0100	117	0.00	0.00	0.00	0.
12 OCT	0100	118	0.00	0.00	0.00	0.
13 OCT	0100	119	0.00	0.00	0.00	0.
14 OCT	0100	120	0.00	0.00	0.00	0.
15 OCT	0100	121	0.00	0.00	0.00	0.
16 OCT	0100	122	0.00	0.00	0.00	0.
17 OCT	0100	123	0.00	0.00	0.00	0.
18 OCT	0100	124	0.00	0.00	0.00	0.
19 OCT	0100	125	0.00	0.00	0.00	0.
20 OCT	0100	126	0.00	0.00	0.00	0.
21 OCT	0100	127	0.00	0.00	0.00	0.
22 OCT	0100	128	0.00	0.00	0.00	0.
23 OCT	0100	129	0.00	0.00	0.00	0.
24 OCT	0100	130	0.00	0.00	0.00	0.
25 OCT	0100	131	0.00	0.00	0.00	0.
26 OCT	0100	132	0.00	0.00	0.00	0.
27 OCT	0100	133	0.19	0.19	0.00	0.
28 OCT	0100	134	0.16	0.16	0.00	0.
29 OCT	0100	135	0.00	0.00	0.00	0.
30 OCT	0100	136	0.00	0.00	0.00	0.
31 OCT	0100	137	0.33	0.32	0.00	0.
1 NOV	0100	138	0.74	0.72	0.01	1.
2 NOV	0100	139	0.42	0.42	0.00	4.
3 NOV	0100	140	0.03	0.03	0.00	4.
4 NOV	0100	141	0.00	0.00	0.00	3.
5 NOV	0100	142	0.00	0.00	0.00	3.
6 NOV	0100	143	0.00	0.00	0.00	2.
7 NOV	0100	144	0.00	0.00	0.00	2.
8 NOV	0100	145	0.00	0.00	0.00	1.
9 NOV	0100	146	0.18	0.18	0.00	1.
10 NOV	0100	147	0.17	0.17	0.00	1.
11 NOV	0100	148	0.02	0.02	0.00	1.
12 NOV	0100	149	0.03	0.03	0.00	1.
13 NOV	0100	150	0.15	0.15	0.00	1.
14 NOV	0100	151	0.56	0.54	0.02	2.
15 NOV	0100	152	0.38	0.38	0.00	6.
16 NOV	0100	153	0.19	0.19	0.00	7.
17 NOV	0100	154	0.52	0.47	0.04	9.
18 NOV	0100	155	0.30	0.29	0.00	14.
19 NOV	0100	156	0.40	0.35	0.04	15.
20 NOV	0100	157	0.33	0.29	0.05	20.
21 NOV	0100	158	0.00	0.00	0.00	17.
22 NOV	0100	159	0.00	0.00	0.00	11.
23 NOV	0100	160	0.00	0.00	0.00	9.
24 NOV	0100	161	0.02	0.02	0.00	7.
25 NOV	0100	162	0.02	0.02	0.00	6.
26 NOV	0100	163	0.04	0.04	0.00	5.
27 NOV	0100	164	0.35	0.33	0.02	5.
28 NOV	0100	165	0.56	0.38	0.17	22.
29 NOV	0100	166	0.24	0.24	0.00	25.
30 NOV	0100	167	0.00	0.00	0.00	10.
1 DEC	0100	168	0.00	0.00	0.00	8.
2 DEC	0100	169	0.19	0.19	0.00	7.
3 DEC	0100	170	0.17	0.17	0.00	6.
4 DEC	0100	171	0.18	0.18	0.00	5.
5 DEC	0100	172	0.15	0.15	0.00	4.
6 DEC	0100	173	0.00	0.00	0.00	3.
7 DEC	0100	174	0.00	0.00	0.00	3.
8 DEC	0100	175	0.01	0.01	0.00	2.
9 DEC	0100	176	0.00	0.00	0.00	2.
10 DEC	0100	177	0.00	0.00	0.00	1.
11 DEC	0100	178	0.00	0.00	0.00	1.
12 DEC	0100	179	0.00	0.00	0.00	1.
13 DEC	0100	180	0.00	0.00	0.00	1.
14 DEC	0100	181	0.00	0.00	0.00	1.
15 DEC	0100	182	0.00	0.00	0.00	0.
16 DEC	0100	183	0.00	0.00	0.00	0.

8 MAR	0100	265	0.29	0.12	0.17	39.
9 MAR	0100	266	0.14	0.09	0.05	26.
10 MAR	0100	267	0.92	0.21	0.71	24.
11 MAR	0100	268	0.47	0.18	0.30	107.
12 MAR	0100	269	0.00	0.00	0.00	35.
13 MAR	0100	270	0.00	0.00	0.00	17.
14 MAR	0100	271	0.11	0.08	0.03	13.
15 MAR	0100	272	0.73	0.18	0.55	54.
16 MAR	0100	273	0.54	0.16	0.38	83.
17 MAR	0100	274	0.00	0.00	0.00	45.
18 MAR	0100	275	0.00	0.00	0.00	12.
19 MAR	0100	276	0.15	0.10	0.06	14.
20 MAR	0100	277	0.17	0.10	0.07	19.
21 MAR	0100	278	0.03	0.03	0.00	12.
22 MAR	0100	279	0.00	0.00	0.00	5.
23 MAR	0100	280	0.00	0.00	0.00	4.
24 MAR	0100	281	0.00	0.00	0.00	3.
25 MAR	0100	282	0.00	0.00	0.00	3.
26 MAR	0100	283	0.00	0.00	0.00	2.
27 MAR	0100	284	0.50	0.23	0.27	23.
28 MAR	0100	285	0.42	0.21	0.22	43.
29 MAR	0100	286	0.00	0.00	0.00	24.
30 MAR	0100	287	0.00	0.00	0.00	6.
31 MAR	0100	288	1.00	0.33	0.67	56.
1 APR	0100	289	0.84	0.30	0.54	106.
2 APR	0100	290	0.00	0.00	0.00	59.
3 APR	0100	291	0.00	0.00	0.00	14.
4 APR	0100	292	0.00	0.00	0.00	11.
5 APR	0100	293	0.25	0.17	0.09	16.
6 APR	0100	294	0.37	0.19	0.18	29.
7 APR	0100	295	0.13	0.13	0.00	23.
8 APR	0100	296	0.00	0.00	0.00	8.
9 APR	0100	297	0.42	0.27	0.15	18.
10 APR	0100	298	0.35	0.19	0.16	32.
11 APR	0100	299	0.29	0.18	0.11	30.
12 APR	0100	300	0.25	0.16	0.08	24.
13 APR	0100	301	0.00	0.00	0.00	15.
14 APR	0100	302	0.00	0.00	0.00	7.
15 APR	0100	303	0.64	0.34	0.30	29.
16 APR	0100	304	0.55	0.24	0.31	57.
17 APR	0100	305	0.00	0.00	0.00	36.
18 APR	0100	306	0.86	0.30	0.55	53.
19 APR	0100	307	0.79	0.29	0.50	97.
20 APR	0100	308	0.05	0.05	0.00	57.
21 APR	0100	309	0.00	0.00	0.00	15.
22 APR	0100	310	0.03	0.03	0.00	12.
23 APR	0100	311	0.03	0.03	0.00	10.
24 APR	0100	312	0.00	0.00	0.00	8.
25 APR	0100	313	0.00	0.00	0.00	6.
26 APR	0100	314	0.40	0.26	0.13	15.
27 APR	0100	315	0.33	0.24	0.09	24.
28 APR	0100	316	1.26	0.49	0.77	75.
29 APR	0100	317	1.11	0.35	0.77	136.
30 APR	0100	318	0.04	0.04	0.00	83.
1 MAY	0100	319	0.00	0.00	0.00	19.
2 MAY	0100	320	0.04	0.04	0.00	15.
3 MAY	0100	321	0.35	0.25	0.10	20.
4 MAY	0100	322	0.76	0.28	0.48	57.
5 MAY	0100	323	0.41	0.27	0.15	64.
6 MAY	0100	324	0.53	0.31	0.23	45.
7 MAY	0100	325	0.45	0.28	0.17	48.
8 MAY	0100	326	0.00	0.00	0.00	30.
9 MAY	0100	327	0.00	0.00	0.00	13.
10 MAY	0100	328	0.07	0.06	0.00	11.
11 MAY	0100	329	0.15	0.15	0.00	9.
12 MAY	0100	330	0.09	0.09	0.00	7.
13 MAY	0100	331	0.01	0.01	0.00	6.
14 MAY	0100	332	0.00	0.00	0.00	5.
15 MAY	0100	333	0.00	0.00	0.00	4.
16 MAY	0100	334	0.11	0.11	0.00	3.
17 MAY	0100	335	0.15	0.14	0.00	3.
18 MAY	0100	336	0.37	0.34	0.03	4.
19 MAY	0100	337	0.30	0.30	0.00	8.
20 MAY	0100	338	0.03	0.03	0.00	7.
21 MAY	0100	339	0.22	0.22	0.00	6.
22 MAY	0100	340	0.68	0.49	0.19	21.
23 MAY	0100	341	0.42	0.32	0.09	35.
24 MAY	0100	342	0.08	0.08	0.00	22.
25 MAY	0100	343	0.07	0.07	0.00	12.
26 MAY	0100	344	0.00	0.00	0.00	9.
27 MAY	0100	345	0.12	0.12	0.00	8.
28 MAY	0100	346	0.11	0.10	0.00	6.
29 MAY	0100	347	0.00	0.00	0.00	5.
30 MAY	0100	348	0.00	0.00	0.00	4.
31 MAY	0100	349	0.00	0.00	0.00	3.
1 JUN	0100	350	0.36	0.35	0.00	3.
2 JUN	0100	351	1.01	0.70	0.31	30.
3 JUN	0100	352	0.60	0.40	0.20	57.
4 JUN	0100	353	0.31	0.28	0.03	38.
5 JUN	0100	354	0.26	0.25	0.01	22.
6 JUN	0100	355	0.01	0.01	0.00	18.
7 JUN	0100	356	0.37	0.30	0.07	19.
8 JUN	0100	357	0.31	0.28	0.03	22.
9 JUN	0100	358	0.00	0.00	0.00	16.
10 JUN	0100	359	0.42	0.32	0.09	15.
11 JUN	0100	360	0.43	0.33	0.10	28.
12 JUN	0100	361	0.06	0.06	0.00	22.
13 JUN	0100	362	0.03	0.03	0.00	12.
14 JUN	0100	363	0.04	0.04	0.00	9.
15 JUN	0100	364	0.01	0.01	0.00	8.
16 JUN	0100	365	0.00	0.00	0.00	6.
17 JUN	0100	366	0.00	0.00	0.00	5.

TOTAL RAINFALL = 60.65, TOTAL LOSS = 41.88, TOTAL EXCESS = 18.77

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			10-DAY	30-DAY	90-DAY	365.0-DAY
(CFS)	(HR)					
		(CFS)				
172.	8182.00		57.	38.	32.	13.
		(INCHES)	3.695	7.459	18.625	30.673
		(AC-FT)	1139.	2299.	5742.	9517.

CUMULATIVE AREA = 5.78 SQ MI

HYDROGRAPH AT STATION SUB1
PLAN 1. RATIO = 1.00

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
17	JUN	0100	1	13.	17	SEP	0100	93	0.	18	DEC	0100	185	14.	20	MAR	0100	277	18.
18	JUN	0100	2	11.	18	SEP	0100	94	0.	19	DEC	0100	186	8.	21	MAR	0100	278	12.
19	JUN	0100	3	9.	19	SEP	0100	95	0.	20	DEC	0100	187	3.	22	MAR	0100	279	5.
20	JUN	0100	4	9.	20	SEP	0100	96	0.	21	DEC	0100	188	2.	23	MAR	0100	280	4.
21	JUN	0100	5	8.	21	SEP	0100	97	0.	22	DEC	0100	189	2.	24	MAR	0100	281	3.
22	JUN	0100	6	6.	22	SEP	0100	98	1.	23	DEC	0100	190	1.	25	MAR	0100	282	3.
23	JUN	0100	7	5.	23	SEP	0100	99	1.	24	DEC	0100	191	15.	26	MAR	0100	283	2.
24	JUN	0100	8	4.	24	SEP	0100	100	1.	25	DEC	0100	192	28.	27	MAR	0100	284	21.
25	JUN	0100	9	3.	25	SEP	0100	101	1.	26	DEC	0100	193	16.	28	MAR	0100	285	43.
26	JUN	0100	10	3.	26	SEP	0100	102	1.	27	DEC	0100	194	4.	29	MAR	0100	286	24.
27	JUN	0100	11	2.	27	SEP	0100	103	2.	28	DEC	0100	195	3.	30	MAR	0100	287	4.
28	JUN	0100	12	2.	28	SEP	0100	104	2.	29	DEC	0100	196	2.	31	MAR	0100	288	56.
29	JUN	0100	13	2.	29	SEP	0100	105	2.	30	DEC	0100	197	2.	1	APR	0100	289	106.
30	JUN	0100	14	1.	30	SEP	0100	106	1.	31	DEC	0100	198	2.	2	APR	0100	290	59.
1	JUL	0100	15	1.	1	OCT	0100	107	1.	1	JAN	0100	199	1.	3	APR	0100	291	14.
2	JUL	0100	16	1.	2	OCT	0100	108	1.	2	JAN	0100	200	1.	4	APR	0100	292	11.
3	JUL	0100	17	2.	3	OCT	0100	109	1.	3	JAN	0100	201	1.	5	APR	0100	293	16.
4	JUL	0100	18	2.	4	OCT	0100	110	1.	4	JAN	0100	202	26.	6	APR	0100	294	29.
5	JUL	0100	19	1.	5	OCT	0100	111	0.	5	JAN	0100	203	55.	7	APR	0100	295	23.
6	JUL	0100	20	1.	6	OCT	0100	112	0.	6	JAN	0100	204	33.	8	APR	0100	296	8.
7	JUL	0100	21	1.	7	OCT	0100	113	0.	7	JAN	0100	205	7.	9	APR	0100	297	18.
8	JUL	0100	22	1.	8	OCT	0100	114	0.	8	JAN	0100	206	6.	10	APR	0100	298	32.
9	JUL	0100	23	0.	9	OCT	0100	115	0.	9	JAN	0100	207	5.	11	APR	0100	299	30.
10	JUL	0100	24	1.	10	OCT	0100	116	0.	10	JAN	0100	208	4.	12	APR	0100	300	28.
11	JUL	0100	25	2.	11	OCT	0100	117	0.	11	JAN	0100	209	21.	13	APR	0100	301	15.
12	JUL	0100	26	2.	12	OCT	0100	118	0.	12	JAN	0100	210	32.	14	APR	0100	302	7.
13	JUL	0100	27	2.	13	OCT	0100	119	0.	13	JAN	0100	211	24.	15	APR	0100	303	29.
14	JUL	0100	28	1.	14	OCT	0100	120	0.	14	JAN	0100	212	20.	16	APR	0100	304	57.
15	JUL	0100	29	1.	15	OCT	0100	121	0.	15	JAN	0100	213	13.	17	APR	0100	305	38.
16	JUL	0100	30	1.	16	OCT	0100	122	0.	16	JAN	0100	214	15.	18	APR	0100	306	53.
17	JUL	0100	31	1.	17	OCT	0100	123	0.	17	JAN	0100	215	29.	19	APR	0100	307	97.
18	JUL	0100	32	1.	18	OCT	0100	124	0.	18	JAN	0100	216	18.	20	APR	0100	308	57.
19	JUL	0100	33	1.	19	OCT	0100	125	0.	19	JAN	0100	217	33.	21	APR	0100	309	15.
20	JUL	0100	34	14.	20	OCT	0100	126	0.	20	JAN	0100	218	42.	22	APR	0100	310	12.
21	JUL	0100	35	33.	21	OCT	0100	127	0.	21	JAN	0100	219	54.	23	APR	0100	311	10.
22	JUL	0100	36	27.	22	OCT	0100	128	0.	22	JAN	0100	220	42.	24	APR	0100	312	8.
23	JUL	0100	37	13.	23	OCT	0100	129	0.	23	JAN	0100	221	23.	25	APR	0100	313	6.
24	JUL	0100	38	11.	24	OCT	0100	130	0.	24	JAN	0100	222	8.	26	APR	0100	314	15.
25	JUL	0100	39	9.	25	OCT	0100	131	0.	25	JAN	0100	223	6.	27	APR	0100	315	24.
26	JUL	0100	40	8.	26	OCT	0100	132	0.	26	JAN	0100	224	5.	28	APR	0100	316	75.
27	JUL	0100	41	8.	27	OCT	0100	133	0.	27	JAN	0100	225	9.	29	APR	0100	317	136.
28	JUL	0100	42	8.	28	OCT	0100	134	0.	28	JAN	0100	226	12.	30	APR	0100	318	83.
29	JUL	0100	43	6.	29	OCT	0100	135	0.	29	JAN	0100	227	8.	1	MAY	0100	319	19.
30	JUL	0100	44	6.	30	OCT	0100	136	0.	30	JAN	0100	228	2.	2	MAY	0100	320	15.
31	JUL	0100	45	5.	31	OCT	0100	137	0.	31	JAN	0100	229	2.	3	MAY	0100	321	28.
1	AUG	0100	46	10.	1	NOV	0100	138	1.	1	FEB	0100	230	1.	4	MAY	0100	322	57.
2	AUG	0100	47	8.	2	NOV	0100	139	4.	2	FEB	0100	231	1.	5	MAY	0100	323	64.
3	AUG	0100	48	6.	3	NOV	0100	140	4.	3	FEB	0100	232	1.	6	MAY	0100	324	45.
4	AUG	0100	49	5.	4	NOV	0100	141	3.	4	FEB	0100	233	1.	7	MAY	0100	325	48.
5	AUG	0100	50	4.	5	NOV	0100	142	3.	5	FEB	0100	234	10.	8	MAY	0100	326	30.
6	AUG	0100	51	4.	6	NOV	0100	143	2.	6	FEB	0100	235	15.	9	MAY	0100	327	13.
7	AUG	0100	52	4.	7	NOV	0100	144	2.	7	FEB	0100	236	5.	10	MAY	0100	328	11.
8	AUG	0100	53	5.	8	NOV	0100	145	1.	8	FEB	0100	237	2.	11	MAY	0100	329	9.
9	AUG	0100	54	4.	9	NOV	0100	146	1.	9	FEB	0100	238	1.	12	MAY	0100	330	7.
10	AUG	0100	55	3.	10	NOV	0100	147	1.	10	FEB	0100	239	1.	13	MAY	0100	331	6.
11	AUG	0100	56	2.	11	NOV	0100	148	1.	11	FEB	0100	240	1.	14	MAY	0100	332	5.
12	AUG	0100	57	2.	12	NOV	0100	149	1.	12	FEB	0100	241	1.	15	MAY	0100	333	4.
13	AUG	0100	58	1.	13	NOV	0100	150	1.	13	FEB	0100	242	0.	16	MAY	0100	334	3.
14	AUG	0100	59	1.	14	NOV	0100	151	2.	14	FEB	0100	243	10.	17	MAY	0100	335	3.
15	AUG	0100	60	1.	15	NOV	0100	152	6.	15	FEB	0100	244	63.	18	MAY	0100	336	4.
16	AUG	0100	61	7.	16	NOV	0100	153	7.	16	FEB	0100	245	95.	19	MAY	0100	337	8.
17	AUG	0100	62	18.	17	NOV	0100	154	9.	17	FEB	0100	246	47.	20	MAY	0100	338	7.
18	AUG	0100	63	17.	18	NOV	0100	155	14.	18	FEB	0100	247	11.	21	MAY	0100	339	6.
19	AUG	0100	64	8.	19	NOV	0100	156	15.	19	FEB	0100	248	9.	22	MAY	0100	340	21.
20	AUG	0100	65	6.	20	NOV	0100	157	20.	20	FEB	0100	249	7.	23	MAY	0100	341	35.
21	AUG	0100	66	5.	21	NOV	0100	158	17.	21	FEB	0100	250	6.	24	MAY	0100	342	22.
22	AUG	0100	67	4.	22	NOV	0100	159	11.	22	FEB	0100	251	5.	25	MAY	0100	343	12.
23	AUG	0100	68	3.	23	NOV	0100	160	9.	23	FEB	0100	252	8.	26	MAY	0100	344	9.
24	AUG	0100	69	3.	24	NOV	0100	161	7.	24	FEB	0100	253	14.	27	MAY	0100	345	8.
25	AUG	0100	70	4.	25	NOV	0100	162	6.	25	FEB	0100	254	9.	28	MAY	0100	346	6.
26	AUG	0100	71	4.	26	NOV	0100	163	5.	26	FEB	0100	255	3.	29	MAY	0100	347	5.
27	AUG	0100	72	3.	27	NOV	0100	164	5.	27	FEB	0100	256	2.	30	MAY	0100	348	4.
28	AUG	0100	73	3.	28	NOV	0100	165	22.	28	FEB	0100	257	2.	31	MAY	0100	349	3.
29	AUG	0100	74	2.	29	NOV	0100	166	25.	1	MAR	0100	258	78.	1	JUN	0100	350	3.
30	AUG	0100	75	2.	30	NOV	0100	167	10.	2	MAR	0100	259	172.	2	JUN	0100	351	30.
31	AUG	0100	76	1.	1	DEC	0100	168	8.	3	MAR	0100	260	108.	3	JUN	0100	352	57.
1	SEP	0100	77	1.	2	DEC	0100	169	7.	4	MAR	0100	261	71.	4	JUN	0100	353	38.
2	SEP	0100	78	1.	3	DEC	0100	170	6.	5	MAR	0100	262	14.	5	JUN	0100	354	22.
3	SEP	0100	79	1.	4	DEC	0100	171	5.	6	MAR	0100	263	11.	6	JUN	0100	355	18.
4	SEP	0100	80	1.	5	DEC	0100	172	4.	7	MAR	0100	264	25.	7	JUN	0100	356	19.
5	SEP	0100	81	0.	6	DEC	0100	173	3.	8	MAR	0100	265	39.	8	JUN	0100	357	22.
6	SEP	0100	82	0.	7	DEC	0100	174	3.	9	MAR	0100	266	26.	9	JUN	0100	358	16.
7	SEP	0100	83	0.	8	DEC	0100	175	2.	10	MAR	0100	267	66.	10	JUN	0100	359	19.
8	SEP	0100	84	0.	9	DEC	0100	176	2.	11	MAR	0100	268	107.	11	JUN	0100	360	20.
9	SEP	0100	85	0.	10	DEC	0100	177	1.	12	MAR	0100	269	55.	12	JUN	0100	361	22.
10	SEP	0100	86	0.	11	DEC	0100	178	1.	13	MAR	0100	270	13.	13	JUN	0100	362	12.
11	SEP	0100	87	0.	12	DEC	0100	179	1.	14	MAR	0100	271	13.	14	JUN	0100	363	9.
12	SEP	0100	88	0.	13	DEC	0100	180	1.	15	MAR	0100	272	54.	15	JUN	0100	364	8.
13	SEP	0100	89	0.	14	DEC	0100	181	1.	16	MAR	0100	273	85.	16	JUN	0100	365	6.
14	SEP	0100	90	0.	15	DEC	0100	182	0.	17	MAR	0100	274	45.	17	JUN	0100	366	5.
15	SEP	0100	91	0.	16	DEC	0100	183	0.	18	MAR	0100	275	12.					
16	SEP	0100	92	0.	17	DEC	0100	184	7.	19	MAR	0100	276	14.					

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		10-DAY	30-DAY	90-DAY	365.0-DAY
(CFS)	(HR)				
172.	6192.00	(CFS) 57.	39.	32.	13.
		(INCHES) 3.695	7.459	18.625	30.873
		(AC-FT) 1139.	2298.	5742.	9517.

CUMULATIVE AREA = 5.78 SQ MI

PLAN 2 INPUT DATA FOR STATION SUB2 ARE SAME AS FOR PLAN 1

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              **************
              *            *
   17 KK      *     SUB2   *
              *            *
              **************

   19 KO        OUTPUT CONTROL VARIABLES
                     IPRNT           2  PRINT CONTROL
                     IPLOT           0  PLOT CONTROL
                     QSCAL          0.  HYDROGRAPH PLOT SCALE

              SUBBASIN RUNOFF DATA

   20 BA        SUBBASIN CHARACTERISTICS
                     TAREA        1.05  SUBBASIN AREA

                PRECIPITATION DATA

   12 PB             STORM       60.65  BASIN TOTAL PRECIPITATION

   12 PI          INCREMENTAL PRECIPITATION PATTERN
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0.00	0.27	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.17	0.15	0.27	0.45	0.18	0.00	0.00	0.11	0.09
0.00	0.00	0.42	0.36	0.00	0.00	0.01	0.00	0.17	0.15
0.00	0.29	1.28	0.88	0.24	0.21	0.19	0.16	0.30	0.28
0.03	0.00	0.53	0.45	0.12	0.10	0.00	0.03	0.38	0.30
0.13	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.84
0.82	0.02	0.00	0.00	0.00	0.00	0.00	0.38	0.32	0.11
0.09	0.00	0.00	0.00	0.01	0.03	0.01	0.00	0.00	0.00
0.00	0.03	0.14	0.17	0.06	0.02	0.02	0.00	0.18	0.15
0.00	0.02	0.28	0.22	0.02	0.41	0.37	0.00	0.24	0.33
0.35	0.31	0.09	0.00	0.05	0.05	0.00	0.06	0.05	0.00
0.00	0.00	0.08	0.06	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.19	0.16	0.00	0.00	0.33	0.74	0.42	0.03	0.00
0.00	0.00	0.00	0.00	0.18	0.17	0.02	0.03	0.15	0.56
0.38	0.19	0.52	0.30	0.40	0.33	0.00	0.00	0.00	0.02
0.02	0.04	0.35	0.56	0.24	0.00	0.00	0.18	0.17	0.18
0.15	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.34	0.28	0.00	0.05	0.11	0.06	0.00	0.38
0.32	0.00	0.00	0.00	0.11	0.09	0.00	0.00	0.00	0.00
0.69	0.54	0.00	0.00	0.09	0.07	0.16	0.42	0.24	0.22
0.18	0.00	0.27	0.28	0.05	0.53	0.48	0.37	0.29	0.05
0.05	0.00	0.00	0.18	0.14	0.00	0.00	0.00	0.10	0.09
0.00	0.11	0.30	0.18	0.03	0.03	0.01	0.01	0.00	0.00
0.00	0.31	0.98	0.61	0.00	0.00	0.00	0.00	0.08	0.07
0.21	0.19	0.06	0.05	0.10	0.05	1.35	1.31	0.14	0.02
0.01	0.00	0.35	0.29	0.14	0.92	0.67	0.00	0.00	0.11
0.73	0.54	0.00	0.00	0.15	0.17	0.03	0.00	0.00	0.00
0.00	0.00	0.50	0.42	0.00	0.00	1.00	0.84	0.00	0.00
0.00	0.25	0.37	0.13	0.00	0.42	0.35	0.29	0.25	0.00
0.00	0.08	0.55	0.00	0.06	0.78	0.05	0.00	0.03	0.03
0.00	0.00	0.40	0.33	1.26	1.11	0.04	0.00	0.24	0.35
0.76	0.41	0.53	0.45	0.00	0.00	0.07	0.15	0.09	0.01
0.00	0.00	0.11	0.15	0.37	0.30	0.03	0.22	0.68	0.42
0.08	0.07	0.00	0.12	0.11	0.00	0.00	0.00	0.36	1.01
0.60	0.31	0.26	0.01	0.37	0.31	0.00	0.42	0.43	0.06
0.03	0.06	0.01							

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   22 LS        SCS LOSS RATE
                     STRTL        0.02  INITIAL ABSTRACTION
                    CRVNBR       99.00  CURVE NUMBER
                     RTIMP       99.00  PERCENT IMPERVIOUS AREA

   21 UC        CLARK UNITGRAPH
                        TC        1.00  TIME OF CONCENTRATION
                         R        1.00  STORAGE COEFFICIENT

                SYNTHETIC ACCUMULATED-AREA VS. TIME CURVE WILL BE USED

                                                  ***
R INCREASED TO MINIMUM OF 0.5

*****DSS*** ZSRTS:  FATAL ERROR  - NUMBER OF VALUES TO STORE IS LESS THAN 1
NVALS:        0
Pathname: ///API//1DAY/COMPUTED/

                                        UNIT HYDROGRAPH PARAMETERS
                                 CLARK    TC= 24.00 HR,        R= 12.00 HR
                                SNYDER    TP= 18.86 HR,       CP=  0.50

                                              UNIT HYDROGRAPH
                                         2 END-OF-PERIOD ORDINATES
              14.        14.
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HYDROGRAPH AT STATION SUB2

DA MON HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
17 JUN 0100	1	0.00	0.00	0.00	0.
18 JUN 0100	2	0.00	0.00	0.00	0.
19 JUN 0100	3	0.27	0.00	0.27	4.
20 JUN 0100	4	0.23	0.00	0.23	7.
21 JUN 0100	5	0.00	0.00	0.00	3.
22 JUN 0100	6	0.00	0.00	0.00	0.
23 JUN 0100	7	0.00	0.00	0.00	0.
24 JUN 0100	8	0.00	0.00	0.00	0.
25 JUN 0100	9	0.00	0.00	0.00	0.
26 JUN 0100	10	0.00	0.00	0.00	0.
27 JUN 0100	11	0.00	0.00	0.00	0.

DA MON HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
17 DEC 0100	184	0.34	0.00	0.34	5.
18 DEC 0100	185	0.28	0.00	0.28	9.
19 DEC 0100	186	0.00	0.00	0.00	4.
20 DEC 0100	187	0.05	0.00	0.05	1.
21 DEC 0100	188	0.11	0.00	0.11	2.
22 DEC 0100	189	0.06	0.00	0.06	2.
23 DEC 0100	190	0.00	0.00	0.00	1.
24 DEC 0100	191	0.38	0.00	0.38	5.
25 DEC 0100	192	0.32	0.00	0.32	10.
26 DEC 0100	193	0.00	0.00	0.00	5.
27 DEC 0100	194	0.00	0.00	0.02	2.

28	JUN	0100	17	0.00	0.00	0.00	0.	*	29	DEC	0100	195	0.00	0.00	0.00	0.
29	JUN	0100	18	0.17	0.00	0.17	2.	*	30	DEC	0100	196	0.11	0.00	0.11	2.
30	JUN	0100	19	0.15	0.00	0.15	3.	*	31	DEC	0100	197	0.08	0.00	0.08	3.
1	JUL	0100	20	0.27	0.00	0.27	6.	*	1	JAN	0100	198	0.00	0.00	0.00	1.
2	JUL	0100	21	0.45	0.00	0.45	10.	*	2	JAN	0100	199	0.00	0.00	0.00	0.
3	JUL	0100	22	0.18	0.00	0.18	5.	*	3	JAN	0100	200	0.00	0.00	0.00	0.
4	JUL	0100	23	0.00	0.00	0.00	3.	*	4	JAN	0100	201	0.00	0.00	0.00	0.
5	JUL	0100	24	0.00	0.00	0.00	0.	*	5	JAN	0100	202	0.68	0.00	0.68	10.
6	JUL	0100	25	0.11	0.00	0.11	2.	*	6	JAN	0100	203	0.54	0.00	0.54	17.
7	JUL	0100	26	0.09	0.00	0.09	3.	*	7	JAN	0100	204	0.00	0.00	0.00	8.
8	JUL	0100	27	0.00	0.00	0.00	1.	*	8	JAN	0100	205	0.00	0.00	0.00	5.
9	JUL	0100	28	0.00	0.00	0.00	0.	*	9	JAN	0100	206	0.08	0.00	0.08	1.
10	JUL	0100	29	0.42	0.00	0.42	8.	*	10	JAN	0100	207	0.07	0.00	0.07	2.
11	JUL	0100	30	0.36	0.00	0.36	11.	*	11	JAN	0100	208	0.16	0.00	0.16	3.
12	JUL	0100	31	0.00	0.00	0.00	3.	*	12	JAN	0100	209	0.42	0.00	0.42	8.
13	JUL	0100	32	0.00	0.00	0.00	0.	*	13	JAN	0100	210	0.24	0.00	0.24	9.
14	JUL	0100	33	0.01	0.00	0.01	0.	*	14	JAN	0100	211	0.22	0.00	0.22	6.
15	JUL	0100	34	0.00	0.00	0.00	0.	*	15	JAN	0100	212	0.18	0.00	0.18	6.
16	JUL	0100	35	0.17	0.00	0.17	3.	*	16	JAN	0100	213	0.00	0.00	0.00	3.
17	JUL	0100	36	0.15	0.00	0.15	5.	*	17	JAN	0100	214	0.27	0.00	0.27	4.
18	JUL	0100	37	0.00	0.00	0.00	1.	*	18	JAN	0100	215	0.28	0.00	0.28	8.
19	JUL	0100	38	0.29	0.00	0.29	4.	*	19	JAN	0100	216	0.05	0.00	0.05	5.
20	JUL	0100	39	1.28	0.00	1.28	22.	*	20	JAN	0100	217	0.53	0.00	0.53	8.
21	JUL	0100	40	0.88	0.00	0.88	30.	*	21	JAN	0100	218	0.48	0.00	0.48	14.
22	JUL	0100	41	0.24	0.00	0.24	16.	*	22	JAN	0100	219	0.37	0.00	0.37	12.
23	JUL	0100	42	0.21	0.00	0.21	6.	*	23	JAN	0100	220	0.29	0.00	0.29	9.
24	JUL	0100	43	0.19	0.00	0.19	6.	*	24	JAN	0100	221	0.05	0.00	0.05	5.
25	JUL	0100	44	0.16	0.00	0.16	5.	*	25	JAN	0100	222	0.05	0.00	0.05	1.
26	JUL	0100	45	0.30	0.00	0.30	4.	*	26	JAN	0100	223	0.00	0.00	0.00	1.
27	JUL	0100	46	0.28	0.00	0.28	8.	*	27	JAN	0100	224	0.00	0.00	0.00	0.
28	JUL	0100	47	0.03	0.00	0.03	4.	*	28	JAN	0100	225	0.16	0.00	0.16	2.
29	JUL	0100	48	0.00	0.00	0.00	0.	*	29	JAN	0100	226	0.14	0.00	0.14	4.
30	JUL	0100	49	0.53	0.00	0.53	7.	*	30	JAN	0100	227	0.00	0.00	0.00	2.
31	JUL	0100	50	0.45	0.00	0.45	14.	*	31	JAN	0100	228	0.00	0.00	0.00	0.
1	AUG	0100	51	0.12	0.00	0.12	4.	*	31	JAN	0100	229	0.00	0.00	0.00	0.
2	AUG	0100	52	0.10	0.00	0.10	3.	*	1	FEB	0100	230	0.10	0.00	0.10	1.
3	AUG	0100	53	0.03	0.00	0.00	1.	*	2	FEB	0100	231	0.09	0.00	0.09	3.
4	AUG	0100	54	0.03	0.00	0.03	0.	*	3	FEB	0100	232	0.00	0.00	0.00	1.
5	AUG	0100	55	0.38	0.00	0.38	6.	*	4	FEB	0100	233	0.11	0.00	0.11	2.
6	AUG	0100	56	0.30	0.00	0.30	10.	*	5	FEB	0100	234	0.30	0.00	0.30	6.
7	AUG	0100	57	0.13	0.00	0.13	6.	*	6	FEB	0100	235	0.18	0.00	0.18	7.
8	AUG	0100	58	0.11	0.00	0.11	3.	*	7	FEB	0100	236	0.03	0.00	0.03	3.
9	AUG	0100	59	0.00	0.00	0.00	2.	*	8	FEB	0100	237	0.03	0.00	0.03	1.
10	AUG	0100	60	0.00	0.00	0.00	0.	*	9	FEB	0100	238	0.01	0.00	0.01	1.
11	AUG	0100	61	0.00	0.00	0.00	0.	*	10	FEB	0100	239	0.01	0.00	0.01	0.
12	AUG	0100	62	0.00	0.00	0.00	0.	*	11	FEB	0100	240	0.00	0.00	0.00	0.
13	AUG	0100	63	0.00	0.00	0.00	0.	*	12	FEB	0100	241	0.00	0.00	0.00	0.
14	AUG	0100	64	0.00	0.00	0.00	0.	*	13	FEB	0100	242	0.00	0.00	0.00	0.
15	AUG	0100	65	0.00	0.00	0.00	0.	*	14	FEB	0100	243	0.31	0.00	0.31	4.
16	AUG	0100	66	0.20	0.00	0.00	0.	*	15	FEB	0100	244	0.98	0.00	0.98	18.
17	AUG	0100	67	0.00	0.00	0.00	0.	*	16	FEB	0100	245	0.61	0.00	0.61	22.
18	AUG	0100	68	0.00	0.00	0.00	0.	*	17	FEB	0100	246	0.00	0.00	0.00	9.
19	AUG	0100	69	0.38	0.00	0.38	5.	*	18	FEB	0100	247	0.00	0.00	0.00	0.
20	AUG	0100	70	0.32	0.00	0.32	10.	*	19	FEB	0100	248	0.00	0.00	0.00	0.
21	AUG	0100	71	0.11	0.00	0.11	6.	*	20	FEB	0100	249	0.00	0.00	0.00	0.
22	AUG	0100	72	0.09	0.00	0.09	3.	*	21	FEB	0100	250	0.08	0.00	0.08	1.
23	AUG	0100	73	0.00	0.00	0.00	1.	*	22	FEB	0100	251	0.07	0.00	0.07	2.
24	AUG	0100	74	0.00	0.00	0.00	0.	*	23	FEB	0100	252	0.21	0.00	0.21	4.
25	AUG	0100	75	0.00	0.00	0.00	0.	*	24	FEB	0100	253	0.18	0.00	0.18	6.
26	AUG	0100	76	0.01	0.00	0.01	0.	*	25	FEB	0100	254	0.00	0.00	0.00	3.
1	SEP	0100	77	0.03	0.00	0.03	1.	*	26	FEB	0100	255	0.05	0.00	0.05	1.
2	SEP	0100	78	0.01	0.00	0.01	1.	*	27	FEB	0100	256	0.10	0.00	0.10	2.
3	SEP	0100	79	0.00	0.00	0.00	0.	*	28	FEB	0100	257	0.05	0.00	0.05	2.
4	SEP	0100	80	0.00	0.00	0.00	0.	*	1	MAR	0100	258	1.35	0.00	1.35	20.
5	SEP	0100	81	0.00	0.00	0.00	0.	*	2	MAR	0100	259	1.31	0.00	1.31	39.
6	SEP	0100	82	0.00	0.00	0.00	0.	*	3	MAR	0100	260	0.14	0.00	0.14	20.
7	SEP	0100	83	0.03	0.00	0.03	0.	*	4	MAR	0100	261	0.02	0.00	0.02	2.
8	SEP	0100	84	0.14	0.00	0.14	2.	*	5	MAR	0100	262	0.01	0.00	0.01	0.
9	SEP	0100	85	0.17	0.00	0.17	4.	*	6	MAR	0100	263	0.00	0.00	0.00	0.
10	SEP	0100	86	0.06	0.00	0.06	3.	*	7	MAR	0100	264	0.35	0.00	0.35	5.
11	SEP	0100	87	0.02	0.00	0.02	1.	*	8	MAR	0100	265	0.29	0.00	0.29	9.
12	SEP	0100	88	0.02	0.00	0.02	1.	*	9	MAR	0100	266	0.14	0.00	0.14	6.
13	SEP	0100	89	0.00	0.00	0.00	0.	*	10	MAR	0100	267	0.92	0.00	0.92	15.
14	SEP	0100	90	0.18	0.00	0.18	3.	*	11	MAR	0100	268	0.67	0.00	0.67	22.
15	SEP	0100	91	0.15	0.00	0.15	5.	*	12	MAR	0100	269	0.00	0.00	0.00	10.
16	SEP	0100	92	0.00	0.00	0.00	2.	*	13	MAR	0100	270	0.00	0.00	0.00	0.
17	SEP	0100	93	0.02	0.00	0.02	0.	*	14	MAR	0100	271	0.11	0.00	0.11	3.
18	SEP	0100	94	0.28	0.00	0.28	4.	*	15	MAR	0100	272	0.73	0.00	0.73	12.
19	SEP	0100	95	0.22	0.00	0.22	7.	*	16	MAR	0100	273	0.54	0.00	0.54	18.
20	SEP	0100	96	0.02	0.00	0.02	3.	*	17	MAR	0100	274	0.00	0.00	0.00	8.
21	SEP	0100	97	0.45	0.00	0.45	7.	*	18	MAR	0100	275	0.00	0.00	0.00	0.
22	SEP	0100	98	0.37	0.00	0.37	12.	*	19	MAR	0100	276	0.15	0.00	0.15	2.
23	SEP	0100	99	0.00	0.00	0.00	5.	*	20	MAR	0100	277	0.17	0.00	0.17	4.
24	SEP	0100	100	0.24	0.00	0.24	3.	*	21	MAR	0100	278	0.03	0.00	0.03	3.
25	SEP	0100	101	0.33	0.00	0.33	8.	*	22	MAR	0100	279	0.00	0.00	0.00	0.
26	SEP	0100	102	0.35	0.00	0.35	10.	*	23	MAR	0100	280	0.00	0.00	0.00	0.
27	SEP	0100	103	0.31	0.00	0.31	9.	*	24	MAR	0100	281	0.00	0.00	0.00	0.
28	SEP	0100	104	0.09	0.00	0.09	6.	*	25	MAR	0100	282	0.00	0.00	0.00	0.
29	SEP	0100	105	0.00	0.00	0.00	1.	*	26	MAR	0100	283	0.00	0.00	0.00	0.
30	SEP	0100	106	0.05	0.00	0.05	1.	*	27	MAR	0100	284	0.50	0.00	0.50	7.
1	OCT	0100	107	0.05	0.00	0.05	1.	*	28	MAR	0100	285	0.42	0.00	0.42	13.
2	OCT	0100	108	0.00	0.00	0.00	1.	*	29	MAR	0100	286	0.00	0.00	0.00	4.
3	OCT	0100	109	0.06	0.00	0.06	1.	*	30	MAR	0100	287	0.00	0.00	0.00	0.
4	OCT	0100	110	0.05	0.00	0.05	2.	*	31	MAR	0100	288	1.00	0.00	1.00	14.
5	OCT	0100	111	0.00	0.00	0.00	1.	*	1	APR	0100	289	0.64	0.00	0.64	26.
6	OCT	0100	112	0.00	0.00	0.00	0.	*	2	APR	0100	290	0.00	0.00	0.00	12.
7	OCT	0100	113	0.00	0.00	0.00	0.	*	3	APR	0100	291	0.00	0.00	0.00	0.
8	OCT	0100	114	0.06	0.00	0.06	1.	*	4	APR	0100	292	0.00	0.00	0.00	0.
9	OCT	0100	115	0.06	0.00	0.06	2.	*	5	APR	0100	293	0.25	0.00	0.25	4.
10	OCT	0100	116	0.00	0.00	0.00	1.	*	6	APR	0100	294	0.37	0.00	0.37	9.
11	OCT	0100	117	0.00	0.00	0.00	0.	*	7	APR	0100	295	0.13	0.00	0.13	7.
12	OCT	0100	118	0.00	0.00	0.00	0.	*	8	APR	0100	296	0.00	0.00	0.00	2.
13	OCT	0100	119	0.00	0.00	0.00	0.	*	9	APR	0100	297	0.42	0.00	0.42	6.
14	OCT	0100	120	0.00	0.00	0.00	0.	*	10	APR	0100	298	0.35	0.00	0.35	11.
15	OCT	0100	121	0.00	0.00	0.00	0.	*	11	APR	0100	299	0.29	0.00	0.29	9.
16	OCT	0100	122	0.00	0.00	0.00	0.	*	12	APR	0100	300	0.25	0.00	0.25	9.
17	OCT	0100	123	0.00	0.00	0.00	0.	*	13	APR	0100	301	0.00	0.00	0.00	3.
18	OCT	0100	124	0.00	0.00	0.00	0.	*	14	APR	0100	302	0.00	0.00	0.00	0.
19	OCT	0100	125	0.00	0.00	0.00	0.	*	15	APR	0100	303	0.68	0.00	0.64	9.
20	OCT	0100	126	0.00	0.00	0.00	0.	*	16	APR	0100	304	0.55	0.00	0.55	17.
21	OCT	0100	127	0.00	0.00	0.00	0.	*	17	APR	0100	305	0.00	0.00	0.00	8.
									18	APR	0100	306	0.86	0.00	0.86	12.
									19	APR	0100	307	0.78	0.00	0.78	23.
									20	APR	0100	308	0.95	0.00	0.95	12.
									21	APR	0100	309	0.00	0.00	0.00	1.
									22	APR	0100	310	0.03	0.00	0.03	0.

22 OCT 0100	128	0.00	0.00	0.00	0.	*	23 APR 0100	311	0.03	0.00	0.03	1.
23 OCT 0100	129	0.00	0.00	0.00	0.	*	24 APR 0100	312	0.00	0.00	0.00	0.
24 OCT 0100	130	0.00	0.00	0.00	0.	*	25 APR 0100	313	0.00	0.00	0.00	0.
25 OCT 0100	131	0.00	0.00	0.00	0.	*	26 APR 0100	314	0.40	0.00	0.40	4.
26 OCT 0100	132	0.00	0.00	0.00	0.	*	27 APR 0100	315	0.33	0.00	0.33	10.
27 OCT 0100	133	0.19	0.00	0.19	3.	*	28 APR 0100	316	1.26	0.00	1.26	22.
28 OCT 0100	134	0.16	0.00	0.16	5.	*	29 APR 0100	317	1.11	0.00	1.11	33.
29 OCT 0100	135	0.00	0.00	0.00	2.	*	30 APR 0100	318	0.04	0.00	0.04	16.
30 OCT 0100	136	0.00	0.00	0.00	0.	*	1 MAY 0100	319	0.00	0.00	0.00	1.
31 OCT 0100	137	0.33	0.00	0.33	5.	*	2 MAY 0100	320	0.04	0.00	0.04	1.
1 NOV 0100	138	0.74	0.00	0.74	15.	*	3 MAY 0100	321	0.35	0.00	0.35	5.
2 NOV 0100	139	0.42	0.00	0.42	16.	*	4 MAY 0100	322	0.76	0.00	0.76	16.
3 NOV 0100	140	0.03	0.00	0.03	6.	*	5 MAY 0100	323	0.41	0.00	0.41	17.
4 NOV 0100	141	0.00	0.00	0.00	0.	*	6 MAY 0100	324	0.53	0.00	0.53	13.
5 NOV 0100	142	0.00	0.00	0.00	0.	*	7 MAY 0100	325	0.45	0.00	0.45	14.
6 NOV 0100	143	0.00	0.00	0.00	0.	*	8 MAY 0100	326	0.00	0.00	0.00	6.
7 NOV 0100	144	0.00	0.00	0.00	0.	*	9 MAY 0100	327	0.00	0.00	0.00	0.
8 NOV 0100	145	0.00	0.00	0.00	0.	*	10 MAY 0100	328	0.07	0.00	0.07	1.
9 NOV 0100	146	0.18	0.00	0.18	3.	*	11 MAY 0100	329	0.15	0.00	0.15	3.
10 NOV 0100	147	0.17	0.00	0.17	5.	*	12 MAY 0100	330	0.09	0.00	0.09	3.
11 NOV 0100	148	0.02	0.00	0.02	3.	*	13 MAY 0100	331	0.01	0.00	0.01	2.
12 NOV 0100	149	0.03	0.00	0.03	1.	*	14 MAY 0100	332	0.00	0.00	0.00	0.
13 NOV 0100	150	0.15	0.00	0.15	2.	*	15 MAY 0100	333	0.00	0.00	0.00	0.
14 NOV 0100	151	0.56	0.00	0.56	10.	*	16 MAY 0100	334	0.11	0.00	0.11	2.
15 NOV 0100	152	0.38	0.00	0.38	13.	*	17 MAY 0100	335	0.15	0.00	0.15	4.
16 NOV 0100	153	0.19	0.00	0.19	8.	*	18 MAY 0100	336	0.37	0.00	0.37	7.
17 NOV 0100	154	0.52	0.00	0.52	10.	*	19 MAY 0100	337	0.30	0.00	0.30	9.
18 NOV 0100	155	0.30	0.00	0.30	12.	*	20 MAY 0100	338	0.03	0.00	0.03	5.
19 NOV 0100	156	0.40	0.00	0.40	10.	*	21 MAY 0100	339	0.22	0.00	0.22	4.
20 NOV 0100	157	0.33	0.00	0.33	10.	*	22 MAY 0100	340	0.68	0.00	0.68	13.
21 NOV 0100	158	0.00	0.00	0.00	5.	*	23 MAY 0100	341	0.42	0.00	0.42	15.
22 NOV 0100	159	0.00	0.00	0.00	0.	*	24 MAY 0100	342	0.08	0.00	0.08	7.
23 NOV 0100	160	0.00	0.00	0.00	0.	*	25 MAY 0100	343	0.07	0.00	0.07	2.
24 NOV 0100	161	0.02	0.00	0.02	0.	*	26 MAY 0100	344	0.00	0.00	0.00	1.
25 NOV 0100	162	0.02	0.00	0.02	1.	*	27 MAY 0100	345	0.12	0.00	0.12	2.
26 NOV 0100	163	0.04	0.00	0.04	1.	*	28 MAY 0100	346	0.11	0.00	0.11	3.
27 NOV 0100	164	0.35	0.00	0.35	5.	*	29 MAY 0100	347	0.00	0.00	0.00	1.
28 NOV 0100	165	0.56	0.00	0.56	13.	*	30 MAY 0100	348	0.00	0.00	0.00	0.
29 NOV 0100	166	0.24	0.00	0.24	11.	*	31 MAY 0100	349	0.00	0.00	0.00	0.
30 NOV 0100	167	0.00	0.00	0.00	3.	*	1 JUN 0100	350	0.36	0.00	0.36	5.
1 DEC 0100	168	0.00	0.00	0.00	0.	*	2 JUN 0100	351	1.01	0.00	1.01	19.
2 DEC 0100	169	0.19	0.00	0.19	3.	*	3 JUN 0100	352	0.60	0.00	0.60	23.
3 DEC 0100	170	0.17	0.00	0.17	5.	*	4 JUN 0100	353	0.31	0.00	0.31	13.
4 DEC 0100	171	0.18	0.00	0.18	5.	*	5 JUN 0100	354	0.26	0.00	0.26	8.
5 DEC 0100	172	0.15	0.00	0.15	5.	*	6 JUN 0100	355	0.01	0.00	0.01	4.
6 DEC 0100	173	0.00	0.00	0.00	2.	*	7 JUN 0100	356	0.37	0.00	0.37	5.
7 DEC 0100	174	0.00	0.00	0.00	0.	*	8 JUN 0100	357	0.31	0.00	0.31	10.
8 DEC 0100	175	0.01	0.00	0.01	0.	*	9 JUN 0100	358	0.00	0.00	0.00	4.
9 DEC 0100	176	0.00	0.00	0.00	0.	*	10 JUN 0100	359	0.42	0.00	0.42	6.
10 DEC 0100	177	0.00	0.00	0.00	0.	*	11 JUN 0100	360	0.43	0.00	0.43	12.
11 DEC 0100	178	0.00	0.00	0.00	0.	*	12 JUN 0100	361	0.06	0.00	0.06	7.
12 DEC 0100	179	0.00	0.00	0.00	0.	*	13 JUN 0100	362	0.03	0.00	0.03	1.
13 DEC 0100	180	0.00	0.00	0.00	0.	*	14 JUN 0100	363	0.04	0.00	0.04	1.
14 DEC 0100	181	0.00	0.00	0.00	0.	*	15 JUN 0100	364	0.01	0.00	0.01	1.
15 DEC 0100	182	0.00	0.00	0.00	0.	*	16 JUN 0100	365	0.00	0.00	0.00	0.
16 DEC 0100	183	0.00	0.00	0.00	0.	*	17 JUN 0100	366	0.00	0.00	0.00	0.

TOTAL RAINFALL = 60.65, TOTAL LOSS = 0.00, TOTAL EXCESS = 60.64

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			10-DAY	30-DAY	90-DAY	365.0-DAY
+ (CFS)	(HR)					
		(CFS)				
+ 30.	6192.00		14.	9.	7.	5.
		(INCHES)	4.933	9.861	23.450	60.645
		(AC-FT)	276.	552.	1313.	3396.

CUMULATIVE AREA = 1.05 SQ MI

HYDROGRAPH AT STATION SUB2
PLAN 1, RATIO = 1.00

DA MON HRMN	ORD	FLOW	*	DA MON HRMN	ORD	FLOW	*	DA MON HRMN	ORD	FLOW	*	DA MON HRMN	ORD	FLOW
17 JUN 0100	1	0.	*	17 SEP 0100	93	0.	*	18 DEC 0100	185	0.	*	20 MAR 0100	277	4.
18 JUN 0100	2	0.	*	18 SEP 0100	94	4.	*	19 DEC 0100	186	4.	*	21 MAR 0100	278	3.
19 JUN 0100	3	4.	*	19 SEP 0100	95	7.	*	20 DEC 0100	187	1.	*	22 MAR 0100	279	0.
20 JUN 0100	4	7.	*	20 SEP 0100	96	3.	*	21 DEC 0100	188	2.	*	23 MAR 0100	280	0.
21 JUN 0100	5	3.	*	21 SEP 0100	97	7.	*	22 DEC 0100	189	2.	*	24 MAR 0100	281	0.
22 JUN 0100	6	0.	*	22 SEP 0100	98	12.	*	23 DEC 0100	190	1.	*	25 MAR 0100	282	0.
23 JUN 0100	7	0.	*	23 SEP 0100	99	5.	*	24 DEC 0100	191	3.	*	26 MAR 0100	283	0.
24 JUN 0100	8	0.	*	24 SEP 0100	100	3.	*	25 DEC 0100	192	10.	*	27 MAR 0100	284	7.
25 JUN 0100	9	0.	*	25 SEP 0100	101	8.	*	26 DEC 0100	193	5.	*	28 MAR 0100	285	13.
26 JUN 0100	10	0.	*	26 SEP 0100	102	10.	*	27 DEC 0100	194	0.	*	29 MAR 0100	286	6.
27 JUN 0100	11	0.	*	27 SEP 0100	103	9.	*	28 DEC 0100	195	0.	*	30 MAR 0100	287	0.
28 JUN 0100	12	0.	*	28 SEP 0100	104	6.	*	29 DEC 0100	196	2.	*	31 MAR 0100	288	14.
29 JUN 0100	13	2.	*	29 SEP 0100	105	1.	*	30 DEC 0100	197	3.	*	1 APR 0100	289	26.
30 JUN 0100	14	5.	*	30 SEP 0100	106	1.	*	31 DEC 0100	198	1.	*	2 APR 0100	290	12.
1 JUL 0100	15	8.	*	1 OCT 0100	107	1.	*	1 JAN 0100	199	0.	*	3 APR 0100	291	0.
2 JUL 0100	16	10.	*	2 OCT 0100	108	1.	*	2 JAN 0100	200	0.	*	4 APR 0100	292	0.
3 JUL 0100	17	9.	*	3 OCT 0100	109	1.	*	3 JAN 0100	201	0.	*	5 APR 0100	293	4.
4 JUL 0100	18	3.	*	4 OCT 0100	110	2.	*	4 JAN 0100	202	10.	*	6 APR 0100	294	9.
5 JUL 0100	19	0.	*	5 OCT 0100	111	1.	*	5 JAN 0100	203	17.	*	7 APR 0100	295	7.
6 JUL 0100	20	2.	*	6 OCT 0100	112	0.	*	6 JAN 0100	204	8.	*	8 APR 0100	296	2.
7 JUL 0100	21	1.	*	7 OCT 0100	113	0.	*	7 JAN 0100	205	0.	*	9 APR 0100	297	6.
8 JUL 0100	22	1.	*	8 OCT 0100	114	1.	*	8 JAN 0100	206	1.	*	10 APR 0100	298	11.
9 JUL 0100	23	0.	*	9 OCT 0100	115	2.	*	9 JAN 0100	207	2.	*	11 APR 0100	299	9.
10 JUL 0100	24	6.	*	10 OCT 0100	116	1.	*	10 JAN 0100	208	3.	*	12 APR 0100	300	6.
11 JUL 0100	25	11.	*	11 OCT 0100	117	0.	*	11 JAN 0100	209	8.	*	13 APR 0100	301	3.
12 JUL 0100	26	5.	*	12 OCT 0100	118	0.	*	12 JAN 0100	210	9.	*	14 APR 0100	302	0.
13 JUL 0100	27	0.	*	13 OCT 0100	119	0.	*	13 JAN 0100	211	6.	*	15 APR 0100	303	9.
14 JUL 0100	28	0.	*	14 OCT 0100	120	0.	*	14 JAN 0100	212	4.	*	16 APR 0100	304	17.
15 JUL 0100	29	0.	*	15 OCT 0100	121	0.	*	15 JAN 0100	213	2.	*	17 APR 0100	305	8.
16 JUL 0100	30	3.	*	16 OCT 0100	122	0.	*	16 JAN 0100	214	4.	*	18 APR 0100	306	12.
17 JUL 0100	31	5.	*	17 OCT 0100	123	0.	*	17 JAN 0100	215	0.	*	19 APR 0100	307	23.
18 JUL 0100	32	2.	*	18 OCT 0100	124	0.	*	18 JAN 0100	216	5.	*	20 APR 0100	308	12.
19 JUL 0100	33	4.	*	19 OCT 0100	125	0.	*	19 JAN 0100	217	8.	*	21 APR 0100	309	3.
20 JUL 0100	34	22.	*	20 OCT 0100	126	0.	*	20 JAN 0100	218	14.	*	22 APR 0100	310	0.
21 JUL 0100	35	30.	*	21 OCT 0100	127	0.	*	21 JAN 0100	219	12.	*	23 APR 0100	311	1.

22	JUL	0100	36	18.	*	22	OCT	0100	128	0.	*	22	JAN	0100	220	5.	*	24	APR	0100	312	0.
23	JUL	0100	37	6.	*	23	OCT	0100	129	0.	*	23	JAN	0100	221	5.	*	25	APR	0100	313	0.
24	JUL	0100	38	4.	*	24	OCT	0100	130	0.	*	24	JAN	0100	222	1.	*	26	APR	0100	314	8.
25	JUL	0100	39	5.	*	25	OCT	0100	131	0.	*	25	JAN	0100	223	1.	*	27	APR	0100	315	10.
26	JUL	0100	40	6.	*	26	OCT	0100	132	0.	*	26	JAN	0100	224	0.	*	28	APR	0100	316	20.
27	JUL	0100	41	8.	*	27	OCT	0100	133	3.	*	27	JAN	0100	225	2.	*	29	APR	0100	317	33.
28	JUL	0100	42	4.	*	28	OCT	0100	134	5.	*	28	JAN	0100	226	4.	*	30	APR	0100	318	16.
29	JUL	0100	43	0.	*	29	OCT	0100	135	2.	*	29	JAN	0100	227	2.	*	1	MAY	0100	319	1.
30	JUL	0100	44	7.	*	30	OCT	0100	136	0.	*	30	JAN	0100	228	0.	*	2	MAY	0100	320	1.
31	JUL	0100	45	14.	*	31	OCT	0100	137	5.	*	31	JAN	0100	229	0.	*	3	MAY	0100	321	5.
1	AUG	0100	46	8.	*	1	NOV	0100	138	15.	*	1	FEB	0100	230	1.	*	4	MAY	0100	322	16.
2	AUG	0100	47	3.	*	2	NOV	0100	139	16.	*	2	FEB	0100	231	3.	*	5	MAY	0100	323	17.
3	AUG	0100	48	1.	*	3	NOV	0100	140	6.	*	3	FEB	0100	232	1.	*	6	MAY	0100	324	13.
4	AUG	0100	49	0.	*	4	NOV	0100	141	0.	*	4	FEB	0100	233	2.	*	7	MAY	0100	325	14.
5	AUG	0100	50	6.	*	5	NOV	0100	142	0.	*	5	FEB	0100	234	6.	*	8	MAY	0100	326	6.
6	AUG	0100	51	10.	*	6	NOV	0100	143	0.	*	6	FEB	0100	235	7.	*	9	MAY	0100	327	0.
7	AUG	0100	52	6.	*	7	NOV	0100	144	0.	*	7	FEB	0100	236	3.	*	10	MAY	0100	328	1.
8	AUG	0100	53	3.	*	8	NOV	0100	145	0.	*	8	FEB	0100	237	1.	*	11	MAY	0100	329	3.
9	AUG	0100	54	2.	*	9	NOV	0100	146	3.	*	9	FEB	0100	238	1.	*	12	MAY	0100	330	3.
10	AUG	0100	55	0.	*	10	NOV	0100	147	5.	*	10	FEB	0100	239	0.	*	13	MAY	0100	331	2.
11	AUG	0100	56	0.	*	11	NOV	0100	148	3.	*	11	FEB	0100	240	0.	*	14	MAY	0100	332	0.
12	AUG	0100	57	0.	*	12	NOV	0100	149	1.	*	12	FEB	0100	241	0.	*	15	MAY	0100	333	0.
13	AUG	0100	58	0.	*	13	NOV	0100	150	2.	*	13	FEB	0100	242	0.	*	16	MAY	0100	334	2.
14	AUG	0100	59	0.	*	14	NOV	0100	151	10.	*	14	FEB	0100	243	4.	*	17	MAY	0100	335	4.
15	AUG	0100	60	0.	*	15	NOV	0100	152	13.	*	15	FEB	0100	244	10.	*	18	MAY	0100	336	7.
16	AUG	0100	61	13.	*	16	NOV	0100	153	8.	*	16	FEB	0100	245	22.	*	19	MAY	0100	337	9.
17	AUG	0100	62	25.	*	17	NOV	0100	154	10.	*	17	FEB	0100	246	9.	*	20	MAY	0100	338	5.
18	AUG	0100	63	12.	*	18	NOV	0100	155	12.	*	18	FEB	0100	247	0.	*	21	MAY	0100	339	4.
19	AUG	0100	64	0.	*	19	NOV	0100	156	10.	*	19	FEB	0100	248	0.	*	22	MAY	0100	340	13.
20	AUG	0100	65	0.	*	20	NOV	0100	157	10.	*	20	FEB	0100	249	0.	*	23	MAY	0100	341	15.
21	AUG	0100	66	0.	*	21	NOV	0100	158	5.	*	21	FEB	0100	250	1.	*	24	MAY	0100	342	7.
22	AUG	0100	67	0.	*	22	NOV	0100	159	0.	*	22	FEB	0100	251	2.	*	25	MAY	0100	343	2.
23	AUG	0100	68	0.	*	23	NOV	0100	160	0.	*	23	FEB	0100	252	4.	*	26	MAY	0100	344	1.
24	AUG	0100	69	5.	*	24	NOV	0100	161	0.	*	24	FEB	0100	253	6.	*	27	MAY	0100	345	2.
25	AUG	0100	70	10.	*	25	NOV	0100	162	1.	*	25	FEB	0100	254	3.	*	28	MAY	0100	346	3.
26	AUG	0100	71	6.	*	26	NOV	0100	163	1.	*	26	FEB	0100	255	1.	*	29	MAY	0100	347	1.
27	AUG	0100	72	3.	*	27	NOV	0100	164	5.	*	27	FEB	0100	256	2.	*	30	MAY	0100	348	0.
28	AUG	0100	73	1.	*	28	NOV	0100	165	13.	*	28	FEB	0100	257	2.	*	31	MAY	0100	349	0.
29	AUG	0100	74	0.	*	29	NOV	0100	166	11.	*	1	MAR	0100	258	20.	*	1	JUN	0100	350	5.
30	AUG	0100	75	0.	*	30	NOV	0100	167	3.	*	2	MAR	0100	259	38.	*	2	JUN	0100	351	19.
31	AUG	0100	76	0.	*	1	DEC	0100	168	0.	*	3	MAR	0100	260	20.	*	3	JUN	0100	352	23.
1	SEP	0100	77	1.	*	2	DEC	0100	169	3.	*	4	MAR	0100	261	2.	*	4	JUN	0100	353	13.
2	SEP	0100	78	1.	*	3	DEC	0100	170	5.	*	5	MAR	0100	262	0.	*	5	JUN	0100	354	8.
3	SEP	0100	79	0.	*	4	DEC	0100	171	5.	*	6	MAR	0100	263	0.	*	6	JUN	0100	355	4.
4	SEP	0100	80	0.	*	5	DEC	0100	172	5.	*	7	MAR	0100	264	5.	*	7	JUN	0100	356	2.
5	SEP	0100	81	0.	*	6	DEC	0100	173	2.	*	8	MAR	0100	265	9.	*	8	JUN	0100	357	10.
6	SEP	0100	82	0.	*	7	DEC	0100	174	0.	*	9	MAR	0100	266	6.	*	9	JUN	0100	358	4.
7	SEP	0100	83	0.	*	8	DEC	0100	175	0.	*	10	MAR	0100	267	15.	*	10	JUN	0100	359	6.
8	SEP	0100	84	2.	*	9	DEC	0100	176	0.	*	11	MAR	0100	268	22.	*	11	JUN	0100	360	12.
9	SEP	0100	85	4.	*	10	DEC	0100	177	0.	*	12	MAR	0100	269	10.	*	12	JUN	0100	361	7.
10	SEP	0100	86	3.	*	11	DEC	0100	178	0.	*	13	MAR	0100	270	0.	*	13	JUN	0100	362	1.
11	SEP	0100	87	1.	*	12	DEC	0100	179	0.	*	14	MAR	0100	271	2.	*	14	JUN	0100	363	1.
12	SEP	0100	88	1.	*	13	DEC	0100	180	0.	*	15	MAR	0100	272	12.	*	15	JUN	0100	364	1.
13	SEP	0100	89	0.	*	14	DEC	0100	181	0.	*	16	MAR	0100	273	16.	*	16	JUN	0100	365	0.
14	SEP	0100	90	1.	*	15	DEC	0100	182	0.	*	17	MAR	0100	274	8.	*	17	JUN	0100	366	0.
15	SEP	0100	91	5.	*	16	DEC	0100	183	0.	*	18	MAR	0100	275	0.	*					
16	SEP	0100	92	2.	*	17	DEC	0100	184	5.	*	19	MAR	0100	276	2.	*					

PEAK FLOW AND TIME FROM BEGINNING OF STORM

(CFS)	(HR)	
38.	4192.00	(CFS)
		(INCHES)
		(AC-FT)

MAXIMUM AVERAGE FLOW

10-DAY	30-DAY	90-DAY	365.0-DAY
14.	9.	7.	5.
4.830	9.861	23.450	60.645
270.	552.	1313.	3396.

CUMULATIVE AREA = 1.05 SQ MI

PLAN 2 INPUT DATA FOR STATION SUB2 ARE SAME AS FOR PLAN 1

23 KK COMB1

25 KO OUTPUT CONTROL VARIABLES
IPRNT 2 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE

26 HC HYDROGRAPH COMBINATION
ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

HYDROGRAPH AT STATION COMB1
SUM OF 2 HYDROGRAPHS
PLAN 1, RATIO = 1.00

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
17	JUN	0100	1	13.	17	SEP	0100	93	8.	10	DEC	0100	185	23.	20	MAR	0100	277	22.
18	JUN	0100	2	11.	18	SEP	0100	94	4.	11	DEC	0100	186	12.	21	MAR	0100	278	14.
19	JUN	0100	3	13.	19	SEP	0100	95	8.	20	DEC	0100	187	3.	22	MAR	0100	279	5.
20	JUN	0100	4	14.	20	SEP	0100	96	4.	21	DEC	0100	188	5.	23	MAR	0100	280	4.
21	JUN	0100	5	11.	21	SEP	0100	97	7.	22	DEC	0100	189	4.	24	MAR	0100	281	3.
22	JUN	0100	6	6.	22	SEP	0100	98	13.	23	DEC	0100	190	2.	25	MAR	0100	282	3.
23	JUN	0100	7	5.	23	SEP	0100	99	6.	24	DEC	0100	191	21.	26	MAR	0100	283	2.
24	JUN	0100	8	4.	24	SEP	0100	100	4.	25	DEC	0100	192	38.	27	MAR	0100	284	30.
25	JUN	0100	9	3.	25	SEP	0100	101	8.	26	DEC	0100	193	20.	28	MAR	0100	285	56.

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
26	JUN	0100	10	3.	26	SEP	0100	102	11.	27	DEC	0100	194	4.	29	MAR	0100	286	30.
27	JUN	0100	11	2.	27	SEP	0100	103	12.	28	DEC	0100	195	3.	30	MAR	0100	287	6.
28	JUN	0100	12	2.	28	SEP	0100	104	9.	29	DEC	0100	196	4.	31	MAR	0100	288	70.
29	JUN	0100	13	4.	29	SEP	0100	105	3.	30	DEC	0100	197	5.	1	APR	0100	289	132.
30	JUN	0100	14	6.	30	SEP	0100	106	2.	31	DEC	0100	198	5.	2	APR	0100	290	71.
1	JUL	0100	15	7.	1	OCT	0100	107	3.	1	JAN	0100	199	1.	3	APR	0100	291	18.
2	JUL	0100	16	11.	2	OCT	0100	108	2.	2	JAN	0100	200	1.	4	APR	0100	292	11.
3	JUL	0100	17	11.	3	OCT	0100	109	2.	3	JAN	0100	201	1.	5	APR	0100	293	19.
4	JUL	0100	18	4.	4	OCT	0100	110	2.	4	JAN	0100	202	36.	6	APR	0100	294	38.
5	JUL	0100	19	1.	5	OCT	0100	111	1.	5	JAN	0100	203	72.	7	APR	0100	295	30.
6	JUL	0100	20	3.	6	OCT	0100	112	0.	6	JAN	0100	204	88.	8	APR	0100	296	10.
7	JUL	0100	21	4.	7	OCT	0100	113	0.	7	JAN	0100	205	7.	9	APR	0100	297	23.
8	JUL	0100	22	2.	8	OCT	0100	114	1.	8	JAN	0100	206	7.	10	APR	0100	298	43.
9	JUL	0100	23	0.	9	OCT	0100	115	2.	9	JAN	0100	207	7.	11	APR	0100	299	39.
10	JUL	0100	24	7.	10	OCT	0100	116	1.	10	JAN	0100	208	9.	12	APR	0100	300	32.
11	JUL	0100	25	13.	11	OCT	0100	117	0.	11	JAN	0100	209	30.	13	APR	0100	301	18.
12	JUL	0100	26	8.	12	OCT	0100	118	0.	12	JAN	0100	210	42.	14	APR	0100	302	7.
13	JUL	0100	27	2.	13	OCT	0100	119	0.	13	JAN	0100	211	31.	15	APR	0100	303	38.
14	JUL	0100	28	1.	14	OCT	0100	120	0.	14	JAN	0100	212	26.	16	APR	0100	304	74.
15	JUL	0100	29	1.	15	OCT	0100	121	0.	15	JAN	0100	213	13.	17	APR	0100	305	44.
16	JUL	0100	30	4.	16	OCT	0100	122	0.	16	JAN	0100	214	19.	18	APR	0100	306	65.
17	JUL	0100	31	5.	17	OCT	0100	123	0.	17	JAN	0100	215	37.	19	APR	0100	307	120.
18	JUL	0100	32	3.	18	OCT	0100	124	0.	18	JAN	0100	216	22.	20	APR	0100	308	69.
19	JUL	0100	33	5.	19	OCT	0100	125	0.	19	JAN	0100	217	41.	21	APR	0100	309	16.
20	JUL	0100	34	36.	20	OCT	0100	126	0.	20	JAN	0100	218	76.	22	APR	0100	310	12.
21	JUL	0100	35	63.	21	OCT	0100	127	0.	21	JAN	0100	219	66.	23	APR	0100	311	11.
22	JUL	0100	36	42.	22	OCT	0100	128	0.	22	JAN	0100	220	51.	24	APR	0100	312	8.
23	JUL	0100	37	19.	23	OCT	0100	129	0.	23	JAN	0100	221	28.	25	APR	0100	313	6.
24	JUL	0100	38	17.	24	OCT	0100	130	0.	24	JAN	0100	222	9.	26	APR	0100	314	21.
25	JUL	0100	39	14.	25	OCT	0100	131	0.	25	JAN	0100	223	7.	27	APR	0100	315	35.
26	JUL	0100	40	14.	26	OCT	0100	132	0.	26	JAN	0100	224	5.	28	APR	0100	316	87.
27	JUL	0100	41	16.	27	OCT	0100	133	3.	27	JAN	0100	225	11.	29	APR	0100	317	170.
28	JUL	0100	42	12.	28	OCT	0100	134	5.	28	JAN	0100	226	16.	30	APR	0100	318	99.
29	JUL	0100	43	7.	29	OCT	0100	135	2.	29	JAN	0100	227	8.	1	MAY	0100	319	19.
30	JUL	0100	44	13.	30	OCT	0100	136	0.	30	JAN	0100	228	2.	2	MAY	0100	320	15.
31	JUL	0100	45	23.	31	OCT	0100	137	5.	31	JAN	0100	229	2.	3	MAY	0100	321	25.
1	AUG	0100	46	18.	1	NOV	0100	138	16.	1	FEB	0100	230	3.	4	MAY	0100	322	73.
2	AUG	0100	47	11.	2	NOV	0100	139	20.	2	FEB	0100	231	4.	5	MAY	0100	323	81.
3	AUG	0100	48	8.	3	NOV	0100	140	11.	3	FEB	0100	232	2.	6	MAY	0100	324	58.
4	AUG	0100	49	6.	4	NOV	0100	141	4.	4	FEB	0100	233	2.	7	MAY	0100	325	61.
5	AUG	0100	50	10.	5	NOV	0100	142	3.	5	FEB	0100	234	16.	8	MAY	0100	326	36.
6	AUG	0100	51	16.	6	NOV	0100	143	2.	6	FEB	0100	235	22.	9	MAY	0100	327	13.
7	AUG	0100	52	12.	7	NOV	0100	144	2.	7	FEB	0100	236	6.	10	MAY	0100	328	12.
8	AUG	0100	53	8.	8	NOV	0100	145	1.	8	FEB	0100	237	2.	11	MAY	0100	329	12.
9	AUG	0100	54	5.	9	NOV	0100	146	4.	9	FEB	0100	238	2.	12	MAY	0100	330	11.
10	AUG	0100	55	3.	10	NOV	0100	147	6.	10	FEB	0100	239	1.	13	MAY	0100	331	7.
11	AUG	0100	56	2.	11	NOV	0100	148	4.	11	FEB	0100	240	1.	14	MAY	0100	332	5.
12	AUG	0100	57	2.	12	NOV	0100	149	1.	12	FEB	0100	241	1.	15	MAY	0100	333	4.
13	AUG	0100	58	1.	13	NOV	0100	150	3.	13	FEB	0100	242	0.	16	MAY	0100	334	5.
14	AUG	0100	59	1.	14	NOV	0100	151	12.	14	FEB	0100	243	15.	17	MAY	0100	335	6.
15	AUG	0100	60	1.	15	NOV	0100	152	20.	15	FEB	0100	244	61.	18	MAY	0100	336	11.
16	AUG	0100	61	20.	16	NOV	0100	153	15.	16	FEB	0100	245	110.	19	MAY	0100	337	17.
17	AUG	0100	62	43.	17	NOV	0100	154	19.	17	FEB	0100	246	66.	20	MAY	0100	338	12.
18	AUG	0100	63	29.	18	NOV	0100	155	25.	18	FEB	0100	247	11.	21	MAY	0100	339	9.
19	AUG	0100	64	8.	19	NOV	0100	156	24.	19	FEB	0100	248	9.	22	MAY	0100	340	34.
20	AUG	0100	65	4.	20	NOV	0100	157	31.	20	FEB	0100	249	7.	23	MAY	0100	341	51.
21	AUG	0100	66	5.	21	NOV	0100	158	22.	21	FEB	0100	250	7.	24	MAY	0100	342	28.
22	AUG	0100	67	4.	22	NOV	0100	159	11.	22	FEB	0100	251	7.	25	MAY	0100	343	16.
23	AUG	0100	68	3.	23	NOV	0100	160	8.	23	FEB	0100	252	12.	26	MAY	0100	344	10.
24	AUG	0100	69	3.	24	NOV	0100	161	7.	24	FEB	0100	253	20.	27	MAY	0100	345	9.
25	AUG	0100	70	14.	25	NOV	0100	162	6.	25	FEB	0100	254	12.	28	MAY	0100	346	9.
26	AUG	0100	71	19.	26	NOV	0100	163	5.	26	FEB	0100	255	3.	29	MAY	0100	347	6.
27	AUG	0100	72	6.	27	NOV	0100	164	11.	27	FEB	0100	256	4.	30	MAY	0100	348	4.
28	AUG	0100	73	4.	28	NOV	0100	165	34.	28	FEB	0100	257	4.	31	MAY	0100	349	3.
29	AUG	0100	74	2.	29	NOV	0100	166	36.	1	MAR	0100	258	98.	1	JUN	0100	350	8.
30	AUG	0100	75	2.	30	NOV	0100	167	14.	2	MAR	0100	259	210.	2	JUN	0100	351	48.
31	AUG	0100	76	2.	1	DEC	0100	168	8.	3	MAR	0100	260	128.	3	JUN	0100	352	79.
1	SEP	0100	77	2.	2	DEC	0100	169	10.	4	MAR	0100	261	23.	4	JUN	0100	353	51.
2	SEP	0100	78	1.	3	DEC	0100	170	11.	5	MAR	0100	262	14.	5	JUN	0100	354	30.
3	SEP	0100	79	1.	4	DEC	0100	171	10.	6	MAR	0100	263	11.	6	JUN	0100	355	22.
4	SEP	0100	80	1.	5	DEC	0100	172	9.	7	MAR	0100	264	30.	7	JUN	0100	356	24.
5	SEP	0100	81	0.	6	DEC	0100	173	5.	8	MAR	0100	265	88.	8	JUN	0100	357	32.
6	SEP	0100	82	0.	7	DEC	0100	174	3.	9	MAR	0100	266	32.	9	JUN	0100	358	21.
7	SEP	0100	83	1.	8	DEC	0100	175	2.	10	MAR	0100	267	81.	10	JUN	0100	359	24.
8	SEP	0100	84	3.	9	DEC	0100	176	2.	11	MAR	0100	268	130.	11	JUN	0100	360	40.
9	SEP	0100	85	5.	10	DEC	0100	177	1.	12	MAR	0100	269	65.	12	JUN	0100	361	28.
10	SEP	0100	86	4.	11	DEC	0100	178	1.	13	MAR	0100	270	13.	13	JUN	0100	362	13.
11	SEP	0100	87	1.	12	DEC	0100	179	1.	14	MAR	0100	271	15.	14	JUN	0100	363	10.
12	SEP	0100	88	1.	13	DEC	0100	180	1.	15	MAR	0100	272	65.	15	JUN	0100	364	8.
13	SEP	0100	89	0.	14	DEC	0100	181	1.	16	MAR	0100	273	103.	16	JUN	0100	365	6.
14	SEP	0100	90	3.	15	DEC	0100	182	0.	17	MAR	0100	274	52.	17	JUN	0100	366	5.
15	SEP	0100	91	5.	16	DEC	0100	183	0.	18	MAR	0100	275	12.					
16	SEP	0100	92	3.	17	DEC	0100	184	12.	19	MAR	0100	276	16.					

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 10-DAY	30-DAY	90-DAY	365.0-DAY
		(CFS)	69.	47.	39.	18.
210.	6192.00	(INCHES)	3.764	7.675	19.351	35.450
		(AC-FT)	2371.	2796.	7049.	12913.

CUMULATIVE AREA = 6.83 SQ MI

HYDROGRAPH AT STATION COMB1
SUM OF 2 HYDROGRAPHS
PLAN 2, RATIO = 1.00

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
17	JUN	0100	1	13.	17	SEP	0100	93	0.	18	DEC	0100	185	23.	20	MAR	0100	277	22.
18	JUN	0100	2	11.	18	SEP	0100	94	4.	19	DEC	0100	186	12.	21	MAR	0100	278	14.
19	JUN	0100	3	13.	19	SEP	0100	95	8.	20	DEC	0100	187	3.	22	MAR	0100	279	5.
20	JUN	0100	4	16.	20	SEP	0100	96	4.	21	DEC	0100	188	5.	23	MAR	0100	280	4.
21	JUN	0100	5	11.	21	SEP	0100	97	7.	22	DEC	0100	189	4.	24	MAR	0100	281	3.
22	JUN	0100	6	6.	22	SEP	0100	98	13.	23	DEC	0100	190	2.	25	MAR	0100	282	3.
23	JUN	0100	7	5.	23	SEP	0100	99	8.	24	DEC	0100	191	21.	26	MAR	0100	283	2.
24	JUN	0100	8	4.	24	SEP	0100	100	4.	25	DEC	0100	192	38.	27	MAR	0100	284	30.
25	JUN	0100	9	3.	25	SEP	0100	101	5.	26	DEC	0100	193	20.	28	MAR	0100	285	56.

26 JUN 0100	10	3.	26 SEP 0100	102	11.	27 DEC 0100	194	4.	29 MAR 0100	286	30.
27 JUN 0100	11	2.	27 SEP 0100	103	12.	28 DEC 0100	195	3.	30 MAR 0100	287	6.
28 JUN 0100	12	2.	28 SEP 0100	104	8.	29 DEC 0100	196	4.	31 MAR 0100	288	30.
29 JUN 0100	13	4.	29 SEP 0100	105	3.	30 DEC 0100	197	5.	1 APR 0100	289	132.
30 JUN 0100	14	6.	30 SEP 0100	106	2.	31 DEC 0100	198	3.	2 APR 0100	290	71.
1 JUL 0100	15	7.	1 OCT 0100	107	3.	1 JAN 0100	199	1.	3 APR 0100	291	14.
2 JUL 0100	16	11.	2 OCT 0100	108	2.	2 JAN 0100	200	1.	4 APR 0100	292	11.
3 JUL 0100	17	11.	3 OCT 0100	109	2.	3 JAN 0100	201	1.	5 APR 0100	293	19.
4 JUL 0100	18	4.	4 OCT 0100	110	2.	4 JAN 0100	202	36.	6 APR 0100	294	38.
5 JUL 0100	19	1.	5 OCT 0100	111	1.	5 JAN 0100	203	72.	7 APR 0100	295	30.
6 JUL 0100	20	3.	6 OCT 0100	112	0.	6 JAN 0100	204	40.	8 APR 0100	296	10.
7 JUL 0100	21	4.	7 OCT 0100	113	0.	7 JAN 0100	205	7.	9 APR 0100	297	23.
8 JUL 0100	22	2.	8 OCT 0100	114	1.	8 JAN 0100	206	7.	10 APR 0100	298	43.
9 JUL 0100	23	0.	9 OCT 0100	115	2.	9 JAN 0100	207	7.	11 APR 0100	299	39.
10 JUL 0100	24	7.	10 OCT 0100	116	1.	10 JAN 0100	208	9.	12 APR 0100	300	32.
11 JUL 0100	25	13.	11 OCT 0100	117	0.	11 JAN 0100	209	30.	13 APR 0100	301	18.
12 JUL 0100	26	8.	12 OCT 0100	118	0.	12 JAN 0100	210	42.	14 APR 0100	302	7.
13 JUL 0100	27	2.	13 OCT 0100	119	0.	13 JAN 0100	211	31.	15 APR 0100	303	38.
14 JUL 0100	28	1.	14 OCT 0100	120	0.	14 JAN 0100	212	26.	16 APR 0100	304	74.
15 JUL 0100	29	1.	15 OCT 0100	121	0.	15 JAN 0100	213	13.	17 APR 0100	305	44.
16 JUL 0100	30	4.	16 OCT 0100	122	0.	16 JAN 0100	214	19.	18 APR 0100	306	65.
17 JUL 0100	31	5.	17 OCT 0100	123	0.	17 JAN 0100	215	37.	19 APR 0100	307	120.
18 JUL 0100	32	3.	18 OCT 0100	124	0.	18 JAN 0100	216	22.	20 APR 0100	308	69.
19 JUL 0100	33	5.	19 OCT 0100	125	0.	19 JAN 0100	217	41.	21 APR 0100	309	16.
20 JUL 0100	34	38.	20 OCT 0100	126	0.	20 JAN 0100	218	76.	22 APR 0100	310	12.
21 JUL 0100	35	43.	21 OCT 0100	127	0.	21 JAN 0100	219	66.	23 APR 0100	311	11.
22 JUL 0100	36	42.	22 OCT 0100	128	0.	22 JAN 0100	220	51.	24 APR 0100	312	8.
23 JUL 0100	37	19.	23 OCT 0100	129	0.	23 JAN 0100	221	29.	25 APR 0100	313	6.
24 JUL 0100	38	17.	24 OCT 0100	130	0.	24 JAN 0100	222	9.	26 APR 0100	314	21.
25 JUL 0100	39	14.	25 OCT 0100	131	0.	25 JAN 0100	223	7.	27 APR 0100	315	35.
26 JUL 0100	40	14.	26 OCT 0100	132	0.	26 JAN 0100	224	5.	28 APR 0100	316	97.
27 JUL 0100	41	16.	27 OCT 0100	133	3.	27 JAN 0100	225	11.	29 APR 0100	317	170.
28 JUL 0100	42	12.	28 OCT 0100	134	3.	28 JAN 0100	226	16.	30 APR 0100	318	99.
29 JUL 0100	43	7.	29 OCT 0100	135	2.	29 JAN 0100	227	8.	1 MAY 0100	319	19.
30 JUL 0100	44	13.	30 OCT 0100	136	8.	30 JAN 0100	228	2.	2 MAY 0100	320	15.
31 JUL 0100	45	23.	31 OCT 0100	137	5.	31 JAN 0100	229	2.	3 MAY 0100	321	25.
1 AUG 0100	46	18.	1 NOV 0100	138	16.	1 FEB 0100	230	3.	4 MAY 0100	322	73.
2 AUG 0100	47	11.	2 NOV 0100	139	20.	2 FEB 0100	231	4.	5 MAY 0100	323	81.
3 AUG 0100	48	8.	3 NOV 0100	140	11.	3 FEB 0100	232	2.	6 MAY 0100	324	58.
4 AUG 0100	49	6.	4 NOV 0100	141	4.	4 FEB 0100	233	2.	7 MAY 0100	325	61.
5 AUG 0100	50	10.	5 NOV 0100	142	3.	5 FEB 0100	234	16.	8 MAY 0100	326	38.
6 AUG 0100	51	16.	6 NOV 0100	143	2.	6 FEB 0100	235	22.	9 MAY 0100	327	15.
7 AUG 0100	52	12.	7 NOV 0100	144	2.	7 FEB 0100	236	8.	10 MAY 0100	328	12.
8 AUG 0100	53	8.	8 NOV 0100	145	1.	8 FEB 0100	237	2.	11 MAY 0100	329	12.
9 AUG 0100	54	5.	9 NOV 0100	146	4.	9 FEB 0100	238	2.	12 MAY 0100	330	11.
10 AUG 0100	55	3.	10 NOV 0100	147	6.	10 FEB 0100	239	1.	13 MAY 0100	331	7.
11 AUG 0100	56	2.	11 NOV 0100	148	4.	11 FEB 0100	240	1.	14 MAY 0100	332	5.
12 AUG 0100	57	2.	12 NOV 0100	149	1.	12 FEB 0100	241	1.	15 MAY 0100	333	4.
13 AUG 0100	58	1.	13 NOV 0100	150	3.	13 FEB 0100	242	9.	16 MAY 0100	334	5.
14 AUG 0100	59	1.	14 NOV 0100	151	12.	14 FEB 0100	243	15.	17 MAY 0100	335	8.
15 AUG 0100	60	1.	15 NOV 0100	152	20.	15 FEB 0100	244	81.	18 MAY 0100	336	11.
16 AUG 0100	61	20.	16 NOV 0100	153	15.	16 FEB 0100	245	118.	19 MAY 0100	337	17.
17 AUG 0100	62	43.	17 NOV 0100	154	19.	17 FEB 0100	246	56.	20 MAY 0100	338	12.
18 AUG 0100	63	29.	18 NOV 0100	155	25.	18 FEB 0100	247	11.	21 MAY 0100	339	9.
19 AUG 0100	64	8.	19 NOV 0100	156	24.	19 FEB 0100	248	9.	22 MAY 0100	340	34.
20 AUG 0100	65	6.	20 NOV 0100	157	31.	20 FEB 0100	249	7.	23 MAY 0100	341	51.
21 AUG 0100	66	5.	21 NOV 0100	158	22.	21 FEB 0100	250	7.	24 MAY 0100	342	29.
22 AUG 0100	67	4.	22 NOV 0100	159	11.	22 FEB 0100	251	7.	25 MAY 0100	343	14.
23 AUG 0100	68	3.	23 NOV 0100	160	9.	23 FEB 0100	252	12.	26 MAY 0100	344	10.
24 AUG 0100	69	8.	24 NOV 0100	161	7.	24 FEB 0100	253	70.	27 MAY 0100	345	9.
25 AUG 0100	70	14.	25 NOV 0100	162	6.	25 FEB 0100	254	12.	28 MAY 0100	346	9.
26 AUG 0100	71	10.	26 NOV 0100	163	5.	26 FEB 0100	255	3.	29 MAY 0100	347	6.
27 AUG 0100	72	6.	27 NOV 0100	164	11.	27 FEB 0100	256	4.	30 MAY 0100	348	4.
28 AUG 0100	73	4.	28 NOV 0100	165	34.	28 FEB 0100	257	4.	31 MAY 0100	349	3.
29 AUG 0100	74	2.	29 NOV 0100	166	36.	1 MAR 0100	258	98.	1 JUN 0100	350	8.
30 AUG 0100	75	2.	30 NOV 0100	167	14.	2 MAR 0100	259	210.	2 JUN 0100	351	40.
31 AUG 0100	76	2.	1 DEC 0100	168	8.	3 MAR 0100	260	129.	3 JUN 0100	352	78.
1 SEP 0100	77	2.	2 DEC 0100	169	10.	4 MAR 0100	261	23.	4 JUN 0100	353	51.
2 SEP 0100	78	1.	3 DEC 0100	170	11.	5 MAR 0100	262	14.	5 JUN 0100	354	30.
3 SEP 0100	79	1.	4 DEC 0100	171	10.	6 MAR 0100	263	11.	6 JUN 0100	355	22.
4 SEP 0100	80	1.	5 DEC 0100	172	9.	7 MAR 0100	264	30.	7 JUN 0100	356	24.
5 SEP 0100	81	0.	6 DEC 0100	173	5.	8 MAR 0100	265	68.	8 JUN 0100	357	32.
6 SEP 0100	82	0.	7 DEC 0100	174	3.	9 MAR 0100	266	32.	9 JUN 0100	358	21.
7 SEP 0100	83	1.	8 DEC 0100	175	2.	10 MAR 0100	267	81.	10 JUN 0100	359	24.
8 SEP 0100	84	2.	9 DEC 0100	176	2.	11 MAR 0100	268	130.	11 JUN 0100	360	40.
9 SEP 0100	85	5.	10 DEC 0100	177	1.	12 MAR 0100	269	65.	12 JUN 0100	361	29.
10 SEP 0100	86	4.	11 DEC 0100	178	1.	13 MAR 0100	270	13.	13 JUN 0100	362	13.
11 SEP 0100	87	1.	12 DEC 0100	179	1.	14 MAR 0100	271	15.	14 JUN 0100	363	10.
12 SEP 0100	88	1.	13 DEC 0100	180	1.	15 MAR 0100	272	65.	15 JUN 0100	364	8.
13 SEP 0100	89	0.	14 DEC 0100	181	1.	16 MAR 0100	273	103.	16 JUN 0100	365	6.
14 SEP 0100	90	3.	15 DEC 0100	182	0.	17 MAR 0100	274	52.	17 JUN 0100	366	5.
15 SEP 0100	91	5.	16 DEC 0100	183	0.	18 MAR 0100	275	12.			
16 SEP 0100	92	2.	17 DEC 0100	184	12.	19 MAR 0100	276	16.			

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 10-DAY	30-DAY	90-DAY	365.0-DAY
210.	6192.00	(CFS)	69.	47.	39.	18.
		(INCHES)	3.764	7.675	19.331	35.450
		(AC-FT)	1371.	2798.	7049.	12913.

CUMULATIVE AREA = 6.83 SQ MI

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                ***************
                *             *
   27 KK        *     DAM     *
                *             *
                ***************

   28 KO           OUTPUT CONTROL VARIABLES
                         IPRNT          2  PRINT CONTROL
                         IPLOT          0  PLOT CONTROL
                         QSCAL         0.  HYDROGRAPH PLOT SCALE

                HYDROGRAPH ROUTING DATA

   29 RK           NO ROUTING
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HYDROGRAPH AT STATION DAM
PLAN 1, RATIO = 1.00

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
17	JUN	0100	1	13.	17	SEP	0100	93	0.	18	DEC	0100	185	23.	20	MAR	0100	277	22.
18	JUN	0100	2	11.	18	SEP	0100	94	6.	19	DEC	0100	186	12.	21	MAR	0100	278	14.
19	JUN	0100	3	10.	19	SEP	0100	95	8.	20	DEC	0100	187	3.	22	MAR	0100	279	5.
20	JUN	0100	4	16.	20	SEP	0100	96	4.	21	DEC	0100	188	5.	23	MAR	0100	280	4.
21	JUN	0100	5	11.	21	SEP	0100	97	7.	22	DEC	0100	189	4.	24	MAR	0100	281	3.
22	JUN	0100	6	6.	22	SEP	0100	98	13.	23	DEC	0100	190	2.	25	MAR	0100	282	3.
23	JUN	0100	7	5.	23	SEP	0100	99	6.	24	DEC	0100	191	21.	26	MAR	0100	283	2.
24	JUN	0100	8	4.	24	SEP	0100	100	4.	25	DEC	0100	192	38.	27	MAR	0100	284	30.
25	JUN	0100	9	3.	25	SEP	0100	101	8.	26	DEC	0100	193	20.	28	MAR	0100	285	56.
26	JUN	0100	10	3.	26	SEP	0100	102	11.	27	DEC	0100	194	4.	29	MAR	0100	286	50.
27	JUN	0100	11	2.	27	SEP	0100	103	12.	28	DEC	0100	195	3.	30	MAR	0100	287	6.
28	JUN	0100	12	2.	28	SEP	0100	104	8.	29	DEC	0100	196	4.	31	MAR	0100	288	70.
29	JUN	0100	13	4.	29	SEP	0100	105	3.	30	DEC	0100	197	5.	1	APR	0100	289	132.
30	JUN	0100	14	6.	30	SEP	0100	106	2.	31	DEC	0100	198	3.	2	APR	0100	290	71.
1	JUL	0100	15	7.	1	OCT	0100	107	3.	1	JAN	0100	199	1.	3	APR	0100	291	14.
2	JUL	0100	16	11.	2	OCT	0100	108	2.	2	JAN	0100	200	1.	4	APR	0100	292	11.
3	JUL	0100	17	11.	3	OCT	0100	109	2.	3	JAN	0100	201	1.	5	APR	0100	293	18.
4	JUL	0100	18	4.	4	OCT	0100	110	2.	4	JAN	0100	202	36.	6	APR	0100	294	38.
5	JUL	0100	19	1.	5	OCT	0100	111	1.	5	JAN	0100	203	72.	7	APR	0100	295	30.
6	JUL	0100	20	3.	6	OCT	0100	112	0.	6	JAN	0100	204	40.	8	APR	0100	296	10.
7	JUL	0100	21	4.	7	OCT	0100	113	0.	7	JAN	0100	205	7.	9	APR	0100	297	23.
8	JUL	0100	22	2.	8	OCT	0100	114	1.	8	JAN	0100	206	7.	10	APR	0100	298	43.
9	JUL	0100	23	0.	9	OCT	0100	115	2.	9	JAN	0100	207	7.	11	APR	0100	299	39.
10	JUL	0100	24	1.	10	OCT	0100	116	1.	10	JAN	0100	208	9.	12	APR	0100	300	32.
11	JUL	0100	25	12.	11	OCT	0100	117	0.	11	JAN	0100	209	30.	13	APR	0100	301	18.
12	JUL	0100	26	8.	12	OCT	0100	118	0.	12	JAN	0100	210	42.	14	APR	0100	302	7.
13	JUL	0100	27	2.	13	OCT	0100	119	0.	13	JAN	0100	211	31.	15	APR	0100	303	38.
14	JUL	0100	28	1.	14	OCT	0100	120	0.	14	JAN	0100	212	26.	16	APR	0100	304	74.
15	JUL	0100	29	1.	15	OCT	0100	121	0.	15	JAN	0100	213	13.	17	APR	0100	305	44.
16	JUL	0100	30	4.	16	OCT	0100	122	0.	16	JAN	0100	214	19.	18	APR	0100	306	65.
17	JUL	0100	31	5.	17	OCT	0100	123	0.	17	JAN	0100	215	57.	19	APR	0100	307	120.
18	JUL	0100	32	3.	18	OCT	0100	124	0.	18	JAN	0100	216	22.	20	APR	0100	308	69.
19	JUL	0100	33	5.	19	OCT	0100	125	0.	19	JAN	0100	217	41.	21	APR	0100	309	16.
20	JUL	0100	34	36.	20	OCT	0100	126	0.	20	JAN	0100	218	76.	22	APR	0100	310	12.
21	JUL	0100	35	63.	21	OCT	0100	127	0.	21	JAN	0100	219	66.	23	APR	0100	311	11.
22	JUL	0100	36	42.	22	OCT	0100	128	0.	22	JAN	0100	220	51.	24	APR	0100	312	8.
23	JUL	0100	37	19.	23	OCT	0100	129	0.	23	JAN	0100	221	28.	25	APR	0100	313	6.
24	JUL	0100	38	17.	24	OCT	0100	130	0.	24	JAN	0100	222	9.	26	APR	0100	314	21.
25	JUL	0100	39	14.	25	OCT	0100	131	0.	25	JAN	0100	223	7.	27	APR	0100	315	55.
26	JUL	0100	40	14.	26	OCT	0100	132	0.	26	JAN	0100	224	5.	28	APR	0100	316	97.
27	JUL	0100	41	10.	27	OCT	0100	133	3.	27	JAN	0100	225	11.	29	APR	0100	317	170.
28	JUL	0100	42	12.	28	OCT	0100	134	5.	28	JAN	0100	226	16.	30	APR	0100	318	99.
29	JUL	0100	43	7.	29	OCT	0100	135	2.	29	JAN	0100	227	8.	1	MAY	0100	319	19.
30	JUL	0100	44	13.	30	OCT	0100	136	0.	30	JAN	0100	228	2.	2	MAY	0100	320	15.
31	JUL	0100	45	23.	31	OCT	0100	137	5.	31	JAN	0100	229	2.	3	MAY	0100	321	23.
1	AUG	0100	46	18.	1	NOV	0100	138	16.	1	FEB	0100	230	3.	4	MAY	0100	322	73.
2	AUG	0100	47	11.	2	NOV	0100	139	20.	2	FEB	0100	231	4.	5	MAY	0100	323	91.
3	AUG	0100	48	8.	3	NOV	0100	140	11.	3	FEB	0100	232	2.	6	MAY	0100	324	58.
4	AUG	0100	49	8.	4	NOV	0100	141	4.	4	FEB	0100	233	2.	7	MAY	0100	325	61.
5	AUG	0100	50	10.	5	NOV	0100	142	3.	5	FEB	0100	234	16.	8	MAY	0100	326	36.
6	AUG	0100	51	16.	6	NOV	0100	143	2.	6	FEB	0100	235	22.	9	MAY	0100	327	13.
7	AUG	0100	52	12.	7	NOV	0100	144	2.	7	FEB	0100	236	8.	10	MAY	0100	328	12.
8	AUG	0100	53	8.	8	NOV	0100	145	7.	8	FEB	0100	237	2.	11	MAY	0100	329	12.
9	AUG	0100	54	5.	9	NOV	0100	146	4.	9	FEB	0100	238	2.	12	MAY	0100	330	11.
10	AUG	0100	55	3.	10	NOV	0100	147	6.	10	FEB	0100	239	1.	13	MAY	0100	331	7.
11	AUG	0100	56	2.	11	NOV	0100	148	4.	11	FEB	0100	240	1.	14	MAY	0100	332	5.
12	AUG	0100	57	2.	12	NOV	0100	149	1.	12	FEB	0100	241	1.	15	MAY	0100	333	4.
13	AUG	0100	58	1.	13	NOV	0100	150	3.	13	FEB	0100	242	0.	16	MAY	0100	334	5.
14	AUG	0100	59	1.	14	NOV	0100	151	12.	14	FEB	0100	243	15.	17	MAY	0100	335	6.
15	AUG	0100	60	1.	15	NOV	0100	152	20.	15	FEB	0100	244	81.	18	MAY	0100	336	11.
16	AUG	0100	61	20.	16	NOV	0100	153	15.	16	FEB	0100	245	118.	19	MAY	0100	337	17.
17	AUG	0100	62	43.	17	NOV	0100	154	19.	17	FEB	0100	246	56.	20	MAY	0100	338	12.
18	AUG	0100	63	29.	18	NOV	0100	155	25.	18	FEB	0100	247	11.	21	MAY	0100	339	9.
19	AUG	0100	64	8.	19	NOV	0100	156	24.	19	FEB	0100	248	9.	22	MAY	0100	340	34.
20	AUG	0100	65	6.	20	NOV	0100	157	31.	20	FEB	0100	249	7.	23	MAY	0100	341	51.
21	AUG	0100	66	5.	21	NOV	0100	158	22.	21	FEB	0100	250	7.	24	MAY	0100	342	28.
22	AUG	0100	67	4.	22	NOV	0100	159	11.	22	FEB	0100	251	7.	25	MAY	0100	343	14.
23	AUG	0100	68	3.	23	NOV	0100	160	9.	23	FEB	0100	252	12.	26	MAY	0100	344	10.
24	AUG	0100	69	0.	24	NOV	0100	161	7.	24	FEB	0100	253	20.	27	MAY	0100	345	8.
25	AUG	0100	70	14.	25	NOV	0100	162	6.	25	FEB	0100	254	12.	28	MAY	0100	346	9.
26	AUG	0100	71	10.	26	NOV	0100	163	5.	26	FEB	0100	255	5.	29	MAY	0100	347	6.
27	AUG	0100	72	6.	27	NOV	0100	164	11.	27	FEB	0100	256	4.	30	MAY	0100	348	4.
28	AUG	0100	73	4.	28	NOV	0100	165	34.	28	FEB	0100	257	4.	31	MAY	0100	349	3.
29	AUG	0100	74	2.	29	NOV	0100	166	36.	1	MAR	0100	258	99.	1	JUN	0100	350	8.
30	AUG	0100	75	2.	30	NOV	0100	167	14.	2	MAR	0100	259	210.	2	JUN	0100	351	69.
31	AUG	0100	76	2.	1	DEC	0100	168	8.	3	MAR	0100	260	128.	3	JUN	0100	352	79.
1	SEP	0100	77	2.	2	DEC	0100	169	10.	4	MAR	0100	261	23.	4	JUN	0100	353	51.
2	SEP	0100	78	1.	3	DEC	0100	170	11.	5	MAR	0100	262	14.	5	JUN	0100	354	30.
3	SEP	0100	79	1.	4	DEC	0100	171	10.	6	MAR	0100	263	11.	6	JUN	0100	355	22.
4	SEP	0100	80	1.	5	DEC	0100	172	9.	7	MAR	0100	264	30.	7	JUN	0100	356	24.
5	SEP	0100	81	0.	6	DEC	0100	173	5.	8	MAR	0100	265	48.	8	JUN	0100	357	32.
6	SEP	0100	82	0.	7	DEC	0100	174	3.	9	MAR	0100	266	32.	9	JUN	0100	358	21.
7	SEP	0100	83	1.	8	DEC	0100	175	2.	10	MAR	0100	267	61.	10	JUN	0100	359	26.
8	SEP	0100	84	3.	9	DEC	0100	176	2.	11	MAR	0100	268	130.	11	JUN	0100	360	40.
9	SEP	0100	85	5.	10	DEC	0100	177	1.	12	MAR	0100	269	65.	12	JUN	0100	361	29.
10	SEP	0100	86	4.	11	DEC	0100	178	1.	13	MAR	0100	270	19.	13	JUN	0100	362	13.
11	SEP	0100	87	1.	12	DEC	0100	179	1.	14	MAR	0100	271	15.	14	JUN	0100	363	10.
12	SEP	0100	88	1.	13	DEC	0100	180	1.	15	MAR	0100	272	65.	15	JUN	0100	364	8.
13	SEP	0100	89	0.	14	DEC	0100	181	1.	16	MAR	0100	273	103.	16	JUN	0100	365	6.
14	SEP	0100	90	3.	15	DEC	0100	182	0.	17	MAR	0100	274	47.	17	JUN	0100	366	5.
15	SEP	0100	91	5.	16	DEC	0100	183	0.	18	MAR	0100	275	12.					
16	SEP	0100	92	2.	17	DEC	0100	184	12.	19	MAR	0100	276	16.					

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		10-DAY	30-DAY	90-DAY	365.0-DAY
(CFS)	(HR)	(CFS)			
210.	6192.00	69.	47.	33.	18.
		(INCHES) 3.764	7.673	10.351	18.452
		(AC-FT) 1371.	2796.	7049.	12913.

CUMULATIVE AREA = 6.93 SQ MI

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

 30 KP        PLAN  2 FOR STATION      DAM

*** HEC-1 ERROR 1 *** INVALID CARD IDENTIFICATION CODE OR CARD OUT OF SEQUENCE
    CARD NO.   36     *S  L1735.0     2.18      .6      .5

             HYDROGRAPH ROUTING DATA

 31 RS          STORAGE ROUTING
                    NSTPS          1  NUMBER OF SUBREACHES
                    ITYP        ELEV  TYPE OF INITIAL CONDITION
                   RSVRIC    1818.00  INITIAL CONDITION
                        X       0.00 WORKING R AND D COEFFICIENT

 32 SA              AREA        0.0      86.0     133.0     316.0     414.0    1180.0

 33 SE          ELEVATION   1740.00   1760.00   1780.00   1800.00   1820.00   1830.00

 37 SL          LOW-LEVEL OUTLET
                    ELEVL    1735.00  ELEVATION AT CENTER OF OUTLET
                    CAREA       0.10  CROSS-SECTIONAL AREA
                    COQL        0.60  COEFFICIENT
                    EXPL        0.50  EXPONENT OF HEAD

 34 SS          SPILLWAY
                    CREL     1820.00  SPILLWAY CREST ELEVATION
                    SPWID     180.00  SPILLWAY WIDTH
                    COQW        3.00  WEIR COEFFICIENT
                    EXPW        1.50  EXPONENT OF HEAD

 38 WP          PUMPING DATA

                  PUMP ON    PUMPING    PUMP OFF
                 ELEVATION     RATE    ELEVATION

                   1758.0        6.      1755.0

                    ISTAQ                PUMP FLOW HYDROGRAPH IDENTIFICATION

 35 ST          TOP OF DAM
                    TOPEL    1826.00  ELEVATION AT TOP OF DAM
                   DAMWID     900.00  DAM WIDTH
                    COQD        3.00  WEIR COEFFICIENT
                    EXPD        1.50  EXPONENT OF HEAD

                                                       ***

                                        COMPUTED STORAGE-ELEVATION DATA

        STORAGE       0.00    586.67   2781.23   7158.83  16318.09  25135.38
      ELEVATION    1740.00   1760.00   1780.00   1800.00   1820.00   1830.00

                                        COMPUTED OUTFLOW-ELEVATION DATA

                                          (EXCLUDING FLOW OVER DAM)

        OUTFLOW       1.08      1.17      1.29      1.44      1.62      1.86      2.17      2.42      3.29      4.44
      ELEVATION    1740.00   1740.96   1742.23   1743.95   1746.36   1749.91   1755.40   1764.82   1781.85   1820.00

        OUTFLOW      21.52    141.07    465.55   1097.41   2138.10   3693.08   5861.81   8747.73  12453.30  17080.98
      ELEVATION    1820.10   1820.40   1820.90   1821.60   1822.50   1823.60   1824.90   1826.40   1828.10   1830.00

                                     COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

                                          (INCLUDING FLOW OVER DAM)

        STORAGE       0.00      0.07      0.81      4.51     18.89     71.26    268.05    586.67   1015.11   2781.23
        OUTFLOW       1.08      1.17      1.29      1.44      1.62      1.86      2.17      2.41      2.92      3.23
      ELEVATION    1740.00   1740.96   1742.23   1743.95   1746.36   1749.91   1755.40   1760.00   1764.82   1780.00

        STORAGE    3030.40   7158.83  16318.09  16379.71  16567.52  16880.14  17362.53  18006.10  18650.21  19932.13
        OUTFLOW       3.29      3.88      4.44     21.51    141.07    465.54   1097.46   2139.04   3693.18   5861.78
      ELEVATION    1781.85   1800.00   1820.00   1820.10   1820.40   1820.90   1821.60   1822.50   1823.60   1824.90

        STORAGE   21299.29  23009.96  25135.38
        OUTFLOW    9430.83  20669.68  38180.99
      ELEVATION    1826.40   1828.10   1830.00

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                                         HYDROGRAPH AT STATION      DAM
                                           PLAN 2,   RATIO =  1.00

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DA MON HRMN	ORD	PUMP Q	OUTFLOW	STORAGE	STAGE	*	DA MON HRMN	ORD	PUMP Q	OUTFLOW	STORAGE	STAGE
17 JUN 0100	1	0.	4.	15124.2	1818.0	*	17 DEC 0100	184	6.	4.	13937.9	1815.9
18 JUN 0100	2	6.	4.	15127.0	1818.0	*	18 DEC 0100	185	6.	4.	13951.3	1815.9
19 JUN 0100	3	6.	4.	15129.2	1818.0	*	19 DEC 0100	186	6.	4.	13964.5	1815.9
20 JUN 0100	4	6.	4.	15136.4	1818.0	*	20 DEC 0100	187	6.	4.	13959.0	1815.9
21 JUN 0100	5	6.	4.	15142.1	1818.0	*	21 DEC 0100	188	6.	4.	13946.2	1815.9
22 JUN 0100	6	6.	4.	15136.3	1818.0	*	22 DEC 0100	189	6.	4.	13934.0	1815.9
23 JUN 0100	7	6.	4.	15128.4	1818.0	*	23 DEC 0100	190	6.	4.	13919.6	1815.9
24 JUN 0100	8	6.	4.	15126.5	1818.0	*	24 DEC 0100	191	6.	4.	13921.6	1815.9
25 JUN 0100	9	6.	4.	15102.8	1818.0	*	25 DEC 0100	192	6.	4.	13959.2	1815.9
26 JUN 0100	10	6.	4.	15087.8	1817.9	*	26 DEC 0100	193	6.	4.	13996.1	1816.0
27 JUN 0100	11	6.	4.	15071.6	1817.9	*	27 DEC 0100	194	6.	4.	13999.0	1816.0
28 JUN 0100	12	6.	4.	15054.5	1817.8	*	28 DEC 0100	195	6.	4.	13985.1	1816.0
29 JUN 0100	13	6.	4.	15039.3	1817.9	*	29 DEC 0100	196	6.	4.	13971.6	1816.0
30 JUN 0100	14	6.	4.	15028.1	1817.8	*	30 DEC 0100	197	6.	4.	13959.9	1815.9
1 JUL 0100	15	6.	4.	15020.1	1817.8	*	31 DEC 0100	198	6.	4.	13947.0	1815.9
2 JUL 0100	16	6.	4.	15017.5	1817.8	*	1 JAN 0100	199	6.	4.	13930.6	1815.9
3 JUL 0100	17	6.	4.	15019.0	1817.8	*	2 JAN 0100	200	6.	4.	13912.2	1815.9
4 JUL 0100	18	6.	4.	15013.6	1817.8	*	3 JAN 0100	201	6.	4.	13893.1	1815.8
5 JUL 0100	19	6.	4.	14999.3	1817.8	*	4 JAN 0100	202	6.	4.	13909.8	1815.8
6 JUL 0100	20	6.	4.	14981.3	1817.8	*	5 JAN 0100	203	6.	4.	13994.7	1816.0
7 JUL 0100	21	6.	4.	14966.7	1817.7	*	6 JAN 0100	204	6.	4.	14084.9	1816.2
8 JUL 0100	22	6.	4.	14951.3	1817.7	*	7 JAN 0100	205	6.	4.	14111.0	1816.2
9 JUL 0100	23	6.	4.	14932.7	1817.7	*	8 JAN 0100	206	6.	4.	14104.4	1816.2
10 JUL 0100	24	6.	4.	14918.8	1817.6	*	9 JAN 0100	207	6.	4.	14097.7	1816.2

11	JUL	0100	25	6.	4.	14917.0	1817.6	*	10	JAN	0100	208	6.	4.	14093.7	1816.2
12	JUL	0100	26	6.	4.	14916.2	1817.6	*	11	JAN	0100	209	6.	4.	14109.9	1816.2
13	JUL	0100	27	6.	4.	14904.5	1817.6	*	12	JAN	0100	210	6.	4.	14159.3	1816.3
14	JUL	0100	29	6.	4.	14896.8	1817.6	*	13	JAN	0100	211	6.	4.	14209.9	1816.4
15	JUL	0100	29	6.	4.	14868.5	1817.6	*	14	JAN	0100	212	6.	4.	14244.5	1816.4
16	JUL	0100	30	6.	4.	14852.4	1817.5	*	15	JAN	0100	213	6.	4.	14262.0	1816.5
17	JUL	0100	31	6.	4.	14840.4	1817.5	*	16	JAN	0100	214	6.	4.	14273.5	1816.5
18	JUL	0100	32	6.	4.	14827.7	1817.5	*	17	JAN	0100	215	6.	4.	14307.9	1816.6
19	JUL	0100	33	6.	4.	14814.3	1817.5	*	18	JAN	0100	216	6.	4.	14345.3	1816.6
20	JUL	0100	34	6.	4.	14803.7	1817.5	*	19	JAN	0100	217	6.	4.	14366.8	1816.7
21	JUL	0100	35	6.	4.	14910.9	1817.6	*	20	JAN	0100	218	6.	4.	14401.4	1816.9
22	JUL	0100	36	6.	4.	14994.0	1817.8	*	21	JAN	0100	219	6.	4.	14600.9	1817.1
23	JUL	0100	37	6.	4.	15033.8	1817.8	*	22	JAN	0100	220	6.	4.	14695.6	1817.3
24	JUL	0100	38	6.	4.	15048.4	1817.9	*	23	JAN	0100	221	6.	4.	14752.5	1817.4
25	JUL	0100	39	6.	4.	15058.1	1817.9	*	24	JAN	0100	222	6.	4.	14766.2	1817.4
26	JUL	0100	40	6.	4.	15065.3	1817.9	*	25	JAN	0100	223	6.	4.	14763.7	1817.4
27	JUL	0100	41	6.	4.	15074.3	1817.9	*	26	JAN	0100	224	6.	4.	14754.8	1817.4
28	JUL	0100	42	6.	4.	15081.5	1817.9	*	27	JAN	0100	225	6.	4.	14750.2	1817.3
29	JUL	0100	43	6.	4.	15079.4	1817.9	*	28	JAN	0100	226	6.	4.	14756.8	1817.4
30	JUL	0100	44	6.	4.	15078.2	1817.9	*	29	JAN	0100	227	6.	4.	14760.3	1817.4
31	JUL	0100	45	6.	4.	15092.6	1817.8	*	30	JAN	0100	228	6.	4.	14749.8	1817.3
1	AUG	0100	46	6.	4.	15112.0	1818.0	*	31	JAN	0100	229	6.	4.	14732.9	1817.3
2	AUG	0100	47	6.	4.	15120.2	1818.0	*	1	FEB	0100	230	6.	4.	14716.6	1817.3
3	AUG	0100	48	6.	4.	15118.2	1818.0	*	2	FEB	0100	231	6.	4.	14702.6	1817.3
4	AUG	0100	49	6.	4.	15116.5	1818.0	*	3	FEB	0100	232	6.	4.	14687.7	1817.2
5	AUG	0100	50	6.	4.	15105.2	1818.0	*	4	FEB	0100	233	6.	4.	14671.3	1817.2
6	AUG	0100	51	6.	4.	15109.8	1818.0	*	5	FEB	0100	234	6.	4.	14668.7	1817.2
7	AUG	0100	52	6.	4.	15116.7	1818.0	*	6	FEB	0100	235	6.	4.	14685.0	1817.2
8	AUG	0100	53	6.	4.	15116.3	1818.0	*	7	FEB	0100	236	6.	4.	14693.1	1817.2
9	AUG	0100	54	6.	4.	15109.0	1818.0	*	8	FEB	0100	237	6.	4.	14682.4	1817.2
10	AUG	0100	55	6.	4.	15096.3	1818.0	*	9	FEB	0100	238	6.	4.	14665.7	1817.2
11	AUG	0100	56	6.	4.	15080.6	1817.9	*	10	FEB	0100	239	6.	4.	14647.9	1817.2
12	AUG	0100	57	6.	4.	15063.9	1817.9	*	11	FEB	0100	240	6.	4.	14629.1	1817.1
13	AUG	0100	58	6.	4.	15048.3	1817.9	*	12	FEB	0100	241	6.	4.	14609.7	1817.1
14	AUG	0100	59	6.	4.	15028.1	1817.8	*	13	FEB	0100	242	6.	4.	14589.9	1817.1
15	AUG	0100	60	6.	4.	15009.4	1817.8	*	14	FEB	0100	243	6.	4.	14584.1	1817.1
16	AUG	0100	61	6.	4.	15009.1	1817.8	*	15	FEB	0100	244	6.	4.	14658.1	1817.2
17	AUG	0100	62	6.	4.	15050.1	1817.9	*	16	FEB	0100	245	6.	4.	14834.2	1817.5
18	AUG	0100	63	6.	4.	15099.6	1818.0	*	17	FEB	0100	246	6.	4.	14985.2	1817.8
19	AUG	0100	64	6.	4.	15115.2	1818.0	*	18	FEB	0100	247	6.	4.	15030.0	1817.9
20	AUG	0100	65	6.	4.	15108.6	1818.0	*	19	FEB	0100	248	6.	4.	15028.0	1817.8
21	AUG	0100	66	6.	4.	15099.0	1818.0	*	20	FEB	0100	249	6.	4.	15022.3	1817.8
22	AUG	0100	67	6.	4.	15087.2	1817.9	*	21	FEB	0100	250	6.	4.	15015.4	1817.8
23	AUG	0100	68	6.	4.	15073.6	1817.9	*	22	FEB	0100	251	6.	4.	15008.9	1817.8
24	AUG	0100	69	6.	4.	15064.2	1817.9	*	23	FEB	0100	252	6.	4.	15007.0	1817.9
25	AUG	0100	70	6.	4.	15065.2	1817.9	*	24	FEB	0100	253	6.	4.	15017.3	1817.8
26	AUG	0100	71	6.	4.	15068.2	1817.9	*	25	FEB	0100	254	6.	4.	15027.4	1817.8
27	AUG	0100	72	6.	4.	15063.6	1817.9	*	26	FEB	0100	255	6.	4.	15021.4	1817.8
28	AUG	0100	73	6.	4.	15052.7	1817.9	*	27	FEB	0100	256	6.	4.	15006.1	1817.8
29	AUG	0100	74	6.	4.	15037.9	1817.9	*	28	FEB	0100	257	6.	4.	14995.2	1817.8
30	AUG	0100	75	6.	4.	15020.7	1817.8	*	1	MAR	0100	258	6.	4.	15074.3	1818.9
31	AUG	0100	76	6.	4.	15003.1	1817.8	*	2	MAR	0100	259	6.	4.	15257.9	1818.4
1	SEP	0100	77	6.	4.	14985.3	1817.8	*	3	MAR	0100	260	6.	4.	15671.9	1818.9
2	SEP	0100	78	6.	4.	14967.5	1817.7	*	4	MAR	0100	261	6.	4.	15800.1	1819.1
3	SEP	0100	79	6.	4.	14949.1	1817.7	*	5	MAR	0100	262	6.	4.	15815.5	1819.2
4	SEP	0100	80	6.	4.	14929.7	1817.7	*	6	MAR	0100	263	6.	4.	15819.5	1819.2
5	SEP	0100	81	6.	4.	14909.9	1817.6	*	7	MAR	0100	264	6.	4.	15839.4	1819.2
6	SEP	0100	82	6.	4.	14889.6	1817.6	*	8	MAR	0100	265	6.	4.	15899.8	1819.3
7	SEP	0100	83	6.	4.	14869.7	1817.6	*	9	MAR	0100	266	6.	4.	15954.1	1819.4
8	SEP	0100	84	6.	4.	14852.2	1817.5	*	10	MAR	0100	267	6.	4.	16045.0	1819.6
9	SEP	0100	85	6.	4.	14838.6	1817.5	*	11	MAR	0100	268	6.	4.	16232.8	1819.9
10	SEP	0100	86	6.	4.	14825.8	1817.5	*	12	MAR	0100	269	6.	24.	16384.8	1820.1
11	SEP	0100	87	6.	4.	14809.8	1817.5	*	13	MAR	0100	270	6.	25.	16397.0	1820.1
12	SEP	0100	88	6.	4.	14791.0	1817.4	*	14	MAR	0100	271	6.	17.	16367.4	1820.1
13	SEP	0100	89	6.	4.	14771.2	1817.4	*	15	MAR	0100	272	6.	23.	16391.4	1820.1
14	SEP	0100	90	6.	4.	14753.3	1817.4	*	16	MAR	0100	273	6.	62.	16457.9	1820.2
15	SEP	0100	91	6.	4.	14740.0	1817.3	*	17	MAR	0100	274	6.	69.	16468.9	1820.2
16	SEP	0100	92	6.	4.	14726.2	1817.3	*	18	MAR	0100	275	6.	38.	16414.6	1820.2
17	SEP	0100	93	6.	4.	14707.9	1817.3	*	19	MAR	0100	276	6.	19.	16374.1	1820.1
18	SEP	0100	94	6.	4.	14691.7	1817.2	*	20	MAR	0100	277	6.	16.	16365.0	1820.1
19	SEP	0100	95	6.	4.	14682.6	1817.2	*	21	MAR	0100	278	6.	14.	16359.4	1820.1
20	SEP	0100	96	6.	4.	14672.9	1817.2	*	22	MAR	0100	279	6.	9.	16344.0	1820.0
21	SEP	0100	97	6.	4.	14662.5	1817.2	*	23	MAR	0100	280	6.	5.	16326.7	1820.0
22	SEP	0100	98	6.	4.	14661.2	1817.2	*	24	MAR	0100	281	6.	4.	16312.1	1820.0
23	SEP	0100	99	6.	4.	14659.2	1817.2	*	25	MAR	0100	282	6.	4.	16296.6	1820.0
24	SEP	0100	100	6.	4.	14648.6	1817.2	*	26	MAR	0100	283	6.	4.	16280.0	1819.9
25	SEP	0100	101	6.	4.	14640.8	1817.2	*	27	MAR	0100	284	6.	4.	16290.1	1820.0
26	SEP	0100	102	6.	4.	14639.7	1817.2	*	28	MAR	0100	285	6.	10.	16349.1	1820.0
27	SEP	0100	103	6.	4.	14641.2	1817.2	*	29	MAR	0100	286	6.	24.	16386.3	1820.1
28	SEP	0100	104	6.	4.	14639.7	1817.2	*	30	MAR	0100	287	6.	17.	16368.3	1820.1
29	SEP	0100	105	6.	4.	14629.8	1817.1	*	31	MAR	0100	288	6.	25.	16389.6	1820.1
30	SEP	0100	106	6.	4.	14614.1	1817.1	*	1	APR	0100	289	6.	75.	16477.7	1820.3
1	OCT	0100	107	6.	4.	14598.0	1817.1	*	2	APR	0100	290	6.	91.	16501.6	1820.3
2	OCT	0100	108	6.	4.	14581.2	1817.1	*	3	APR	0100	291	6.	48.	16435.1	1820.2
3	OCT	0100	109	6.	4.	14563.5	1817.0	*	4	APR	0100	292	6.	21.	16378.7	1820.1
4	OCT	0100	110	6.	4.	14546.5	1817.0	*	5	APR	0100	293	6.	14.	16361.2	1820.1
5	OCT	0100	111	6.	4.	14529.1	1817.0	*	6	APR	0100	294	6.	19.	16372.2	1820.1
6	OCT	0100	112	6.	4.	14509.9	1816.9	*	7	APR	0100	295	6.	24.	16385.0	1820.1
7	OCT	0100	113	6.	4.	14489.8	1816.9	*	8	APR	0100	296	6.	18.	16371.0	1820.1
8	OCT	0100	114	6.	4.	14470.5	1816.9	*	9	APR	0100	297	6.	14.	16359.7	1820.1
9	OCT	0100	115	6.	4.	14452.9	1816.8	*	10	APR	0100	298	6.	21.	16378.4	1820.1
10	OCT	0100	116	6.	4.	14433.0	1816.8	*	11	APR	0100	299	6.	29.	16387.0	1820.1
11	OCT	0100	117	6.	4.	14415.3	1816.8	*	12	APR	0100	300	6.	29.	16397.1	1820.1
12	OCT	0100	118	6.	4.	14394.8	1816.7	*	13	APR	0100	301	6.	23.	16382.9	1820.1
13	OCT	0100	119	6.	4.	14374.2	1816.7	*	14	APR	0100	302	6.	14.	16359.0	1820.1
14	OCT	0100	120	6.	4.	14353.6	1816.6	*	15	APR	0100	303	6.	15.	16362.3	1820.1
15	OCT	0100	121	6.	4.	14332.9	1816.6	*	16	APR	0100	304	6.	36.	16410.6	1820.1
16	OCT	0100	122	6.	4.	14312.1	1816.6	*	17	APR	0100	305	6.	47.	16432.3	1820.2
17	OCT	0100	123	6.	4.	14291.4	1816.5	*	18	APR	0100	306	6.	46.	16433.3	1820.2
18	OCT	0100	124	6.	4.	14270.6	1816.5	*	19	APR	0100	307	6.	77.	16480.3	1820.3
19	OCT	0100	125	6.	4.	14249.9	1816.5	*	20	APR	0100	308	6.	86.	16493.7	1820.3
20	OCT	0100	126	6.	4.	14229.1	1816.4	*	21	APR	0100	309	6.	48.	16433.4	1820.2
21	OCT	0100	127	6.	4.	14208.4	1816.4	*	22	APR	0100	310	6.	22.	16380.5	1820.1
22	OCT	0100	128	6.	4.	14187.7	1816.3	*	23	APR	0100	311	6.	13.	16356.8	1820.1
23	OCT	0100	129	6.	4.	14166.9	1816.3	*	24	APR	0100	312	6.	9.	16341.9	1820.0
24	OCT	0100	130	6.	4.	14146.1	1816.3	*	25	APR	0100	313	6.	6.	16329.7	1820.0
25	OCT	0100	131	6.	4.	14125.4	1816.2	*	26	APR	0100	314	6.	6.	16331.4	1820.0
26	OCT	0100	132	6.	4.	14104.7	1816.2	*	27	APR	0100	315	6.	13.	16355.4	1820.1
27	OCT	0100	133	6.	4.	14084.0	1816.2	*	28	APR	0100	316	6.	41.	16420.4	1820.2
28	OCT	0100	134	6.	4.	14074.0	1816.1	*	29	APR	0100	317	6.	108.	16524.8	1820.3
29	OCT	0100	135	6.	4.	14060.7	1816.1	*	30	APR	0100	318	6.	125.	16547.2	1820.4
30	OCT	0100	136	6.	4.	14042.4	1816.1	*	1	MAY	0100	319	6.	66.	16463.0	1820.2
31	OCT	0100	137	6.	4.	14026.4	1816.1	*	2	MAY	0100	320	6.	27.	16393.0	1820.1
1	NOV	0100	138	6.	4.	14026.2	1816.1	*	3	MAY	0100	321	6.	20.	16375.0	1820.1
2	NOV	0100	139	6.	4.	14041.3	1816.1	*	4	MAY	0100	322	6.	34.	16406.6	1820.1
3	NOV	0100	140	6.	4.	14055.9	1816.1	*	5	MAY	0100	323	6.	60.	16455.5	1820.2

OVER FROZ HIGH POINT

4	NOV	0100	141	6.	4.	14044.1	1816.1	*	6	MAY	0100	324	6.	42.	16437.7	1820.2
5	NOV	0100	142	6.	4.	14039.4	1816.1	*	7	MAY	0100	325	6.	56.	16446.8	1820.2
6	NOV	0100	143	6.	4.	14033.1	1816.0	*	8	MAY	0100	326	6.	46.	16440.5	1820.2
7	NOV	0100	144	6.	4.	13996.0	1816.0	*	9	MAY	0100	327	6.	28.	16394.4	1820.1
8	NOV	0100	145	6.	4.	13978.2	1816.0	*	10	MAY	0100	328	6.	16.	16364.3	1820.1
9	NOV	0100	146	6.	4.	13962.5	1815.9	*	11	MAY	0100	329	6.	11.	16349.6	1820.1
10	NOV	0100	147	6.	4.	13951.6	1815.9	*	12	MAY	0100	330	6.	8.	16341.0	1820.0
11	NOV	0100	148	6.	4.	13940.1	1815.9	*	13	MAY	0100	331	6.	6.	16332.2	1820.0
12	NOV	0100	149	6.	4.	13924.1	1815.9	*	14	MAY	0100	332	6.	5.	16321.3	1820.0
13	NOV	0100	150	6.	4.	13907.8	1815.8	*	15	MAY	0100	333	6.	4.	16308.6	1820.0
14	NOV	0100	151	6.	4.	13901.8	1815.8	*	16	MAY	0100	334	6.	4.	16295.8	1820.0
15	NOV	0100	152	6.	4.	13912.3	1815.8	*	17	MAY	0100	335	6.	4.	16285.4	1819.9
16	NOV	0100	153	6.	4.	13925.8	1815.9	*	18	MAY	0100	336	6.	4.	16281.8	1819.9
17	NOV	0100	154	6.	4.	13938.7	1815.9	*	19	MAY	0100	337	6.	4.	16286.3	1820.0
18	NOV	0100	155	6.	4.	13962.1	1815.9	*	20	MAY	0100	338	6.	4.	16295.2	1820.0
19	NOV	0100	156	6.	4.	13990.1	1816.0	*	21	MAY	0100	339	6.	4.	16295.2	1820.0
20	NOV	0100	157	6.	4.	14023.9	1816.0	*	22	MAY	0100	340	6.	4.	16316.3	1820.0
21	NOV	0100	158	6.	4.	14054.1	1816.1	*	23	MAY	0100	341	6.	16.	16366.2	1820.1
22	NOV	0100	159	6.	4.	14065.4	1816.1	*	24	MAY	0100	342	6.	28.	16390.4	1820.1
23	NOV	0100	160	6.	4.	14063.7	1816.1	*	25	MAY	0100	343	6.	20.	16375.3	1820.1
24	NOV	0100	161	6.	4.	14059.4	1816.1	*	26	MAY	0100	344	6.	12.	16355.4	1820.1
25	NOV	0100	162	6.	4.	14051.1	1816.1	*	27	MAY	0100	345	6.	9.	16342.0	1820.0
26	NOV	0100	163	6.	4.	14041.9	1816.1	*	28	MAY	0100	346	6.	7.	16333.4	1820.0
27	NOV	0100	164	6.	4.	14037.2	1816.1	*	29	MAY	0100	347	6.	5.	16325.4	1820.0
28	NOV	0100	165	6.	4.	14041.1	1816.1	*	30	MAY	0100	348	6.	4.	16314.3	1820.0
29	NOV	0100	166	6.	4.	14109.7	1816.2	*	31	MAY	0100	349	6.	4.	16300.3	1820.0
30	NOV	0100	167	6.	4.	14137.9	1816.3	*	1	JUN	0100	350	6.	4.	16290.2	1820.0
1	DEC	0100	168	6.	4.	14138.9	1816.3	*	2	JUN	0100	351	6.	5.	16324.7	1820.0
2	DEC	0100	169	6.	4.	14135.7	1816.3	*	3	JUN	0100	352	6.	32.	16402.8	1820.1
3	DEC	0100	170	6.	4.	14135.3	1816.3	*	4	JUN	0100	353	6.	50.	16437.9	1820.2
4	DEC	0100	171	6.	4.	14135.4	1816.3	*	5	JUN	0100	354	6.	39.	16417.2	1820.2
5	DEC	0100	172	6.	4.	14133.3	1816.2	*	6	JUN	0100	355	6.	27.	16391.3	1820.1
6	DEC	0100	173	6.	4.	14126.9	1816.2	*	7	JUN	0100	356	6.	21.	16377.7	1820.1
7	DEC	0100	174	6.	4.	14115.8	1816.2	*	8	JUN	0100	357	6.	21.	16379.0	1820.1
8	DEC	0100	175	6.	4.	14097.7	1816.2	*	9	JUN	0100	358	6.	21.	16377.4	1820.1
9	DEC	0100	176	6.	4.	14080.7	1816.2	*	10	JUN	0100	359	6.	18.	16371.3	1820.1
10	DEC	0100	177	6.	4.	14062.8	1816.1	*	11	JUN	0100	360	6.	22.	16381.6	1820.1
11	DEC	0100	178	6.	4.	14044.3	1816.1	*	12	JUN	0100	361	6.	26.	16389.4	1820.1
12	DEC	0100	179	6.	4.	14025.3	1816.1	*	13	JUN	0100	362	6.	19.	16374.3	1820.1
13	DEC	0100	180	6.	4.	14006.0	1816.0	*	14	JUN	0100	363	6.	12.	16354.3	1820.1
14	DEC	0100	181	6.	4.	13986.3	1816.0	*	15	JUN	0100	364	6.	8.	16340.4	1820.0
15	DEC	0100	182	6.	4.	13966.5	1815.9	*	16	JUN	0100	365	6.	6.	16328.8	1820.0
16	DEC	0100	183	6.	4.	13946.5	1815.9	*	17	JUN	0100	366	6.	4.	16317.8	1820.0

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PEAK OUTFLOW IS 125. AT TIME7608.00 HOURS

***** PUMP FLOW HYDROGRAPH *****

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			10-DAY	30-DAY	90-DAY	365.0-DAY
(CFS)	(HR)					
		(CFS)				
6.	24.00		6.	6.	6.	6.
		(INCHES)	0.939	1.013	3.038	12.305
		(AC-FT)	123.	369.	1107.	4482.

***** OUTFLOW HYDROGRAPH *****

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			10-DAY	30-DAY	90-DAY	365.0-DAY
(CFS)	(HR)					
		(CFS)				
125.	7608.00		40.	40.	26.	10.
		(INCHES)	3.268	6.581	12.858	19.842
		(AC-FT)	1190.	2397.	4684.	7228.

PEAK STORAGE	TIME		MAXIMUM AVERAGE STORAGE			
			10-DAY	30-DAY	90-DAY	365.0-DAY
(AC-FT)	(HR)					
16547.	7608.00		16449.	16412.	16357.	15086.

PEAK STAGE	TIME		MAXIMUM AVERAGE STAGE			
			10-DAY	30-DAY	90-DAY	365.0-DAY
(FEET)	(HR)					
1820.37	7608.00		1820.21	1820.15	1820.09	1817.90

CUMULATIVE AREA = 6.83 SQ MI

1

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

OPERATION	STATION	AREA	PLAN		RATIOS APPLIED TO FLOWS RATIO 1 1.00
HYDROGRAPH AT					
	SUB1	5.78	1	FLOW	172.
				TIME	6192.00
			2	FLOW	172.
				TIME	6192.00
HYDROGRAPH AT					
	SUB2	1.05	1	FLOW	38.
				TIME	6192.00
			2	FLOW	38.
				TIME	6192.00
2 COMBINED AT					
	COMB1	6.83	1	FLOW	210.
				TIME	6192.00
			2	FLOW	210.
				TIME	6192.00
PUMP FLOW TO					
		6.83	1	FLOW	0.
				TIME	0.00
			2	FLOW	6.
				TIME	24.00

$= (16,500 \text{ AC-FT}) 43,560 \frac{\text{FT}^2}{\text{AC}}$

$= (718,740,000 \text{ FT}^3) \left(\frac{7.48 \text{ GAL}}{\text{FT}^3}\right)$

$= 5.376 \text{ BILL GAL.}$

HYDROGRAPH AT
DAM 6.83 1 FLOW 210.
TIME 4192.00
2 FLOW 125.
TIME 7608.00

** PEAK STAGES IN FEET **
1 STAGE 0.00
TIME 0.00
2 STAGE 1820.37
TIME 7608.00

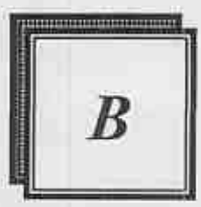
PLAN 2 .....

	INITIAL VALUE	SPILLWAY CREST	TOP OF DAM
ELEVATION	1818.00	1820.00	1826.00
STORAGE	15124.	16318.	20922.
OUTFLOW	4.	4.	7941.

RATIO OF PMF	MAXIMUM RESERVOIR W.S.ELEV	MAXIMUM DEPTH OVER DAM	MAXIMUM STORAGE AC-FT	MAXIMUM OUTFLOW CFS	DURATION OVER TOP HOURS	TIME OF MAX OUTFLOW HOURS	TIME OF FAILURE HOURS
1.00	1820.37	0.00	16547.	125.	0.00	7608.00	0.00

*** 1 ERROR(S) DETECTED BY HEC-1 ***

APPENDIX B



ALTERNATE NO. 2 - NEW LAKE AT NWSE =1176.00'

DRY ELEV.= 1688'

1922-1927 DROUGHT (INITIAL API = 2.06)

4 MGD WITHDRAWAL

START DATE	INITIAL API	POOL ELEV. (FEET)	EVAP LOSS (FEET)	START ELEV. (FEET)	LOW ELEV. (FEET)	LOW DATE	END ELEV. (FEET)	END API
17-Jun-21	2.06	1760.00	2.00	1758.00	1752.20	3-Jan-23	1759.90	2.56
17-Jun-22	2.56	1759.90	2.00	1757.90	1756.20	1-Dec-22	1759.60	2.49
17-Jun-23	2.49	1759.60	2.00	1757.60	1753.40	4-Dec-23	1753.80	1.21
17-Jun-24	1.21	1573.80	2.00	1751.80	1742.40	5-Dec-24	1742.50	0.319
17-Jun-25	0.319	1742.50	2.00	1740.50	1726.40	17-Jun-26	1726.40	2.44
17-Jun-26	2.44	1726.40	2.00	1724.40	**1720.20**	8-Nov-26	1743.60	3.47
17-Jun-27	3.47	1743.60	2.00	1741.60	1736.10	14-Nov-27	1746.50	

6 MGD WITHDRAWAL

START DATE	INITIAL API	POOL ELEV. (FEET)	EVAP LOSS (FEET)	START ELEV. (FEET)	LOW ELEV. (FEET)	LOW DATE	END ELEV. (FEET)	END API
17-Jun-21	2.06	1760.00	2.00	1758.00	1748.20	13-Feb-22	1754.60	2.56
17-Jun-22	2.56	1754.60	2.00	1752.60	1747.40	1-Dec-22	1749.10	2.49
17-Jun-23	2.49	1749.10	2.00	1747.10	1730.90	17-Jun-24	1730.90	1.21
17-Jun-24	1.21	1730.90	2.00	1728.90	**1684.90**	17-Jun-25	**DRY**	0.319
17-Jun-25	0.319	DRY	2.00	DRY	DRY	DRY	DRY	2.44
17-Jun-26	2.44	DRY	2.00	DRY	DRY	DRY	DRY	3.47
17-Jun-27	3.47	DRY	2.00	DRY	DRY	DRY	DRY	

5 MGD WITHDRAWAL

START DATE	INITIAL API	POOL ELEV. (FEET)	EVAP LOSS (FEET)	START ELEV. (FEET)	LOW ELEV. (FEET)	LOW DATE	END ELEV. (FEET)	END API
17-Jun-21	2.06	1760.00	2.00	1758.00	1752.90	3-Jan-22	1759.30	2.56
17-Jun-22	2.56	1759.30	2.00	1757.30	1754.30	30-Nov-22	1756.90	2.49
17-Jun-23	2.49	1756.90	2.00	1754.90	1747.40	24-May-24	1747.40	1.21
17-Jun-24	1.21	1747.40	2.00	1745.40	1726.20	17-Jun-25	17262.00	0.319
17-Jun-25	0.319	1726.20	2.00	1724.20	**1684.00**	10-May-26	**DRY**	2.44
17-Jun-26	2.44	DRY	2.00	DRY	DRY	DRY	DRY	3.47
17-Jun-27	3.47	DRY	2.00	DRY	DRY	DRY	DRY	

4.5 MGD WITHDRAWAL

START DATE	INITIAL API	POOL ELEV. (FEET)	EVAP LOSS (FEET)	START ELEV. (FEET)	LOW ELEV. (FEET)	LOW DATE	END ELEV. (FEET)	END API
17-Jun-21	2.06	1760.00	2.00	1758.00	1751.30	3-Jan-22	1758.60	2.56
17-Jun-22	2.56	1758.60	2.00	1756.60	1754.20	20-Nov-22	1757.50	2.49
17-Jun-23	2.49	1757.50	2.00	1755.50	1749.80	23-May-24	1749.80	1.21
17-Jun-24	1.21	1749.80	2.00	1747.80	1733.80	17-Jun-25	1733.80	0.319
17-Jun-25	0.319	1733.80	2.00	1731.80	1703.80	15-Jun-26	1704.80	2.44
17-Jun-26	2.44	1704.80	2.00	1702.80	**1692.60**	9-Nov-26	1734.70	3.47
17-Jun-27	3.47	1739.70	2.00	1732.70	1723.20	15-Nov-27	1737.70	

ALTERNATE NO. 2 - NEW LAKE AT NWSE =1176.00'
DRY ELEV.= 1688'

1940-1942 DROUGHT (INITIAL API = 2.43)

4.5 MGD WITHDRAWAL

START DATE	INITIAL API	POOL ELEV. (FEET)	EVAP LOSS (FEET)	START ELEV. (FEET)	LOW ELEV. (FEET)	LOW DATE	END ELEV. (FEET)	END API
21-Apr-39	2.43	1760.00	2.00	1758.00	1746.40	08-Feb-40	1749.60	2.28
21-Apr-40	2.28	1749.60	2.00	1747.60	1727.70	04-Mar-41	1732.20	1.38
21-Apr-41	1.38	1732.20	2.00	1730.20	**1700.50**	27-Jan-42	1715.00	0.913
21-Apr-42	0.913	1715.00	2.00	1713.00	1703.80	07-Jun-42	1734.00	

1952-1954 DROUGHT (INITIAL API = 2.92)

4.5 MGD WITHDRAWAL

START DATE	INITIAL API	POOL ELEV. (FEET)	EVAP LOSS (FEET)	START ELEV. (FEET)	LOW ELEV. (FEET)	LOW DATE	END ELEV. (FEET)	END API
26-Apr-51	2.92	1760.00	2.00	1758.00	1750.10	30-Oct-51	1756.60	1.28
26-Apr-52	1.28	1756.60	2.00	1754.60	1743.10	07-Jan-53	1746.50	1.65
26-Apr-53	1.65	1746.50	2.00	1744.50	**1732.00**	08-Dec-53	1744.80	

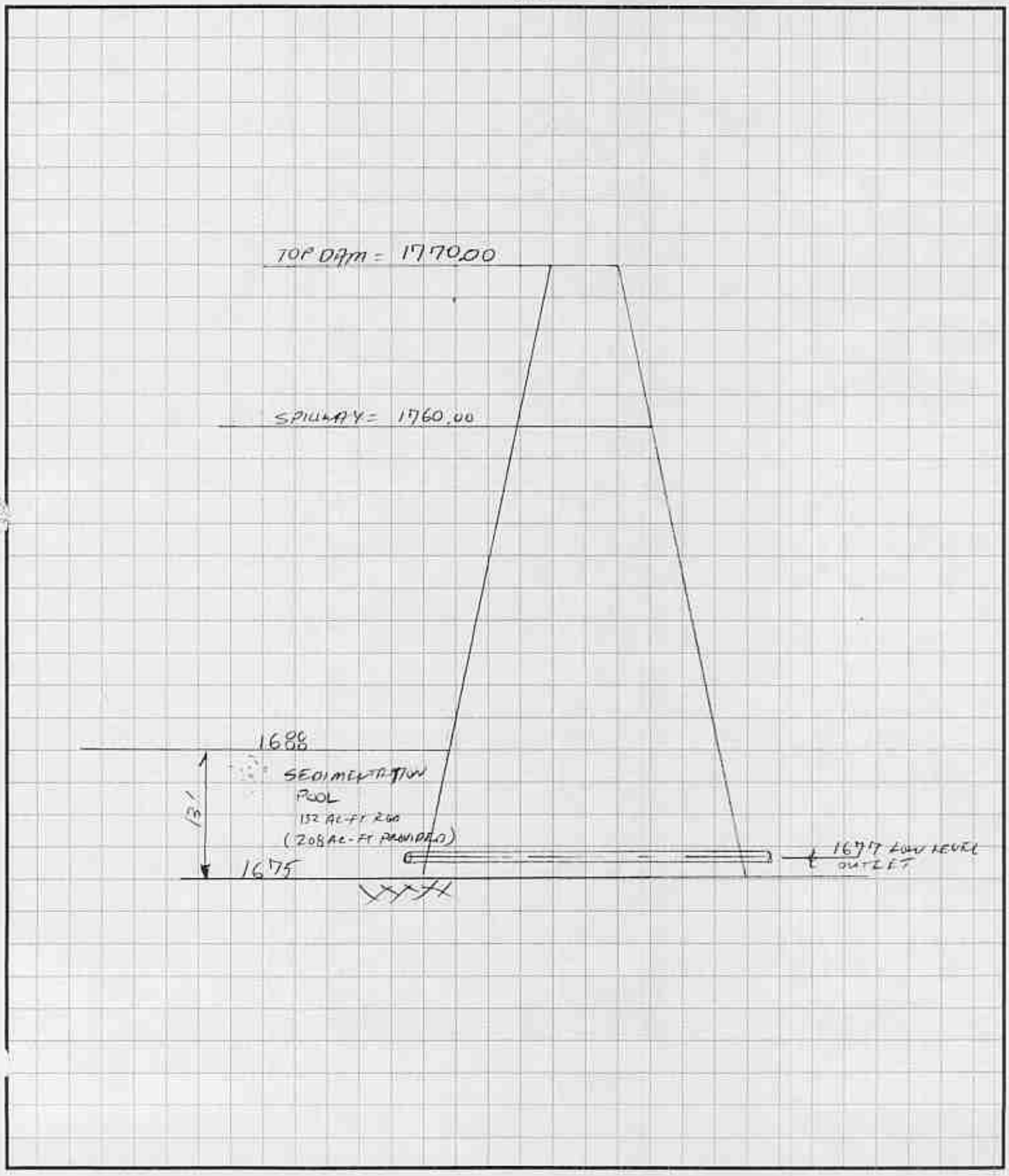
1986-1988 DROUGHT (INITIAL API = 1.30)

4.5 MGD WITHDRAWAL

START DATE	INITIAL API	POOL ELEV. (FEET)	EVAP LOSS (FEET)	START ELEV. (FEET)	LOW ELEV. (FEET)	LOW DATE	END ELEV. (FEET)	END API
02-Mar-85	1.30	1760.00	2.00	1758.00	1748.40	02-Feb-86	1749.30	1.77
02-Mar-86	1.77	1749.30	2.00	1797.30	1736.10	11-Oct-86	1742.40	2.35
02-Mar-87	2.35	1742.40	2.00	1740.40	1721.80	24-Dec-87	1725.90	0.992
02-Mar-88	0.992	1725.90	2.00	1723.90	**1697.30**	04-Nov-88	1726.90	

LD&A
Lamar Dunn & Associates, Inc.

JOB ALT #2
SHEET NO. _____ OF _____
CALCULATED BY ASB DATE 11/2 3/01
CHECKED BY _____ DATE _____
SCALE DAM X-SECTION



LD&A
Lamar Dunn & Associates, Inc.

JOB ALT. #2
SHEET NO. _____ OF _____
CALCULATED BY ASB DATE 11/23/01
CHECKED BY _____ DATE _____
SCALE SEDIMENTATION CALCS

$$SED = 0.5 \frac{\text{ACRE-FT}}{\text{mi}^2\text{-YR}} \times 60 \text{ YEARS (DAM LIFE)} \times \frac{2830 \text{ ACRES}}{640 \text{ AC/mi}^2}$$

$$= 132 \text{ ACRE-FT}$$

```
 FLOOD HYDROGRAPH PACKAGE (HEC-1)
          MAY  1991
        VERSION 4.0.1K

 RUN DATE  11/23/01  TIME  17:19:00
```


U.S. ARMY CORPS OF ENGINEERS
HYDROLOGIC ENGINEERING CENTER
609 SECOND STREET
DAVIS, CALIFORNIA 95616
(916) 551-1748


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

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

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


```
      LINE          ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
        1           ID   CUMBERLAND COUNTY, TN WATER SUPPLY STUDY
        2           ID   MEADOW PARK LAKE
        3           ID   ALTERNATE NO. 2 - NEW LAKE EXPANSION AT ELEV. 1760.00
        4           ID   YIELD ANALYSIS
        5           IT    1440 17JUN21    0100     366
        6           IO       5
        7           JP       2

        8           KK    SUB1
        9           KM
       10           KO       2
       11           BA    3.72
       12           PI  =PI B=MEADOW C=PRECIP-INC P=BAS-AVG
       13           PA  B=MEADOW C=API P=COMPUTED
*** LIST ***
       14           LA   2.06 0.94 1.1 1.0 2.30  1.0  APIRIT2.CSV   SURFRO.CSV   GWROT1.CSV
       15           UG     200     471          1.009
       16           UC    0.76    0.76

       17           KK    SUB2
       18           KM   RAIN ON THE POOL
       19           KO       2
       20           BA    0.702
       21           UC     1.0     1.0
       22           LS                99      99

       23           KK   COMB1
       24           KM   COMBINE SUB1 AND SUB2
       25           KO       2
       26           HC       2

       27           KK     DAM
       28           KO       2
       29           KN
       30           KP       2
       31           RS       1    ELEV  1758.0
       32           SA       0      15      45      92     205     849     756
       33           SE    1675    1680    1700    1720    1740    1760    1780
       34           SS  1760.0     180     3.0     1.5
       35           ST  1770.0     800     3.0     1.5
       36           *S  L1735.0     2.18      .6      .5
       37           SL  1677.0    0.10      .6      .5
       38           WS    1669    6.20    1668
       39           ZZ
```

$BA_{TOT} = 3.72 + 0.702$
$= 4.422\ mi^2$

FLOOD HYDROGRAPH PACKAGE (HEC-1)
MAY 1991
VERSION 4.0.1E

RUN DATE 11/23/01 TIME 17:19:00

U.S. ARMY CORPS OF ENGINEERS
HYDROLOGIC ENGINEERING CENTER
609 SECOND STREET
DAVIS, CALIFORNIA 95616
(916) 551-1748

YIELD ANALYSIS

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

   IT         HYDROGRAPH TIME DATA
                   NMIN       1440  MINUTES IN COMPUTATION INTERVAL
                   IDATE     17JUN31  STARTING DATE
                   ITIME        0100  STARTING TIME
                     NQ         366  NUMBER OF HYDROGRAPH ORDINATES
                  NDDATE     17JUN22  ENDING DATE
                  NDTIME        0100  ENDING TIME
                  ICENT           19  CENTURY MARK

               COMPUTATION INTERVAL    24.00 HOURS
                 TOTAL TIME BASE 8760.00 HOURS

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

   JP          MULTI-PLAN OPTION
                    NPLAN          2  NUMBER OF PLANS

   JR          MULTI-RATIO OPTION
                  RATIOS OF RUNOFF
                 1.00

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

          .............
          .           .
 8 KK     .     SUB1  .
          .           .
          .............

 10 BO          OUTPUT CONTROL VARIABLES
                    IPRNT          2  PRINT CONTROL
                    IPLOT          0  PLOT CONTROL
                    QSCAL          0.  HYDROGRAPH PLOT SCALE
 -----DSS---ZOPEN:  Existing file Opened.  File: CCWS.DSS
                    Unit:  71:  DSS Version: 6-QN
 -----DSS--- ZREAD Unit  71: Vers.   10:  //MEADOW/PRECIP-INC/01JAN1921/1DAY/BAE-AVG/
 -----DSS--- ZREAD Unit  71: Vers.   10:  //MEADOW/PRECIP-INC/01JAN1921/1DAY/BAE-AVG/
 -----DSS--- ZREAD Unit  71: Vers.    8:  //MEADOW/PRECIP-INC/01JAN1922/1DAY/BAS-AVG/

****** WARNING RDTIME - MISSING PRECIPITATION       IN DSS FILE - READ AND INTERPOLATED VALUES SET TO ZERO ******

               API LOSS RATE

                  Initial API Value -    2.060
                    API Decay Rate -    0.940
               Surface Runoff Ratio -    1.100
           Groundwater Runoff Ratio -    1.000
           Initial Base Flow Multiplier -    2.30
           Precipitation Multiplier -    1.00
                Runoff Index Table - APIRIT2.CSV
               Surface Runoff Table - SURFRO.CSV
           Groundwater Runoff Table - GWROT1.CSV


               API GROUNDWATER UNIT HYDROGRAPH

                 Time to Peak (hours) -     8.000.  (Adjusted to nearest time interval)
              Hydrograph Base (hours) -   471.000
                     Peak Flow (cfs) -     21.1
                       Rate of decay -    1.0090
                No. of UG Ordinates -        20

        0.     18.     15.     12.     10.      8.      6.      5.      4.      3.
        3.      2.      2.      1.      1.      1.      1.      1.      0.      0.

            SUBBASIN RUNOFF DATA

 11 BA          SUBBASIN CHARACTERISTICS
                    TAREA       3.72  SUBBASIN AREA

               PRECIPITATION DATA

 12 PB              STORM      60.85  BASIN TOTAL PRECIPITATION

 12 PI            INCREMENTAL PRECIPITATION PATTERN
                    0.00      0.27      0.23      0.00      0.00      0.00      0.00      0.00      0.00      0.00
                    0.00      0.17      0.15      0.27      0.45      0.18      0.00      0.00      0.11      0.09
                    0.00      0.00      0.42      0.38      0.00      0.00      0.31      0.00      0.17      0.15
```

0.00	0.29	1.28	0.88	0.24	0.21	0.18	0.16	0.30	0.28
0.03	0.00	0.53	0.45	0.12	0.10	0.00	0.03	0.38	0.30
0.13	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.94
0.82	0.02	0.00	0.00	0.00	0.00	0.00	0.38	0.32	0.11
0.09	0.00	0.00	0.00	0.01	0.03	0.01	0.00	0.00	0.00
0.00	0.03	0.14	0.17	0.06	0.02	0.02	0.00	0.18	0.15
0.00	0.02	0.28	0.22	0.02	0.45	0.37	0.00	0.24	0.33
0.35	0.31	0.09	0.00	0.05	0.05	0.00	0.06	0.05	0.00
0.00	0.00	0.06	0.06	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.19	0.16	0.00	0.00	0.33	0.74	0.42	0.03	0.00
0.00	0.00	0.00	0.00	0.18	0.17	0.02	0.05	0.15	0.56
0.38	0.19	0.52	0.30	0.80	0.33	0.00	0.00	0.00	0.02
0.03	0.04	0.35	0.56	0.24	0.00	0.00	0.19	0.17	0.18
0.15	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.34	0.28	0.00	0.05	0.11	0.06	0.00	0.38
0.32	0.00	0.00	0.00	0.11	0.09	0.00	0.00	0.00	0.00
0.68	0.54	0.00	0.00	0.00	0.07	0.16	0.42	0.24	0.22
0.18	0.00	0.27	0.28	0.05	0.53	0.48	0.17	0.29	0.05
0.05	0.00	0.00	0.16	0.14	0.00	0.00	0.00	0.10	0.09
0.00	0.11	0.30	0.19	0.03	0.03	0.01	0.01	0.00	0.00
0.00	0.31	0.98	0.61	0.00	0.00	0.00	0.00	0.00	0.07
0.21	0.18	0.00	0.05	0.10	0.05	1.35	1.31	0.14	0.02
0.01	0.00	0.35	0.29	0.14	0.92	0.67	0.00	0.00	0.11
0.73	0.54	0.00	0.00	0.15	0.17	0.03	0.00	0.00	0.00
0.00	0.00	0.50	0.42	0.00	0.00	1.00	0.84	0.00	0.00
0.00	0.25	0.37	0.13	0.00	0.42	0.35	0.29	0.25	0.00
0.00	0.44	0.55	0.00	0.86	0.78	0.05	0.00	0.03	0.03
0.00	0.00	0.40	0.33	1.24	1.11	0.04	0.00	0.04	0.35
0.76	0.41	0.53	0.45	0.00	0.00	0.03	0.15	0.09	0.01
0.00	0.00	0.11	0.15	0.37	0.30	0.03	0.22	0.68	0.42
0.08	0.07	0.00	0.12	0.11	0.00	0.00	0.00	0.36	1.01
0.60	0.31	0.26	0.01	0.37	0.31	0.00	0.42	0.43	0.86
0.03	0.04	0.01							

```
14 LE          EXPONENTIAL LOSS RATE
                 STRKR       0.00  INITIAL VALUE OF LOSS COEFFICIENT
                 DLTKR       0.00  INITIAL LOSS
                 RTIOL       0.00  LOSS COEFFICIENT RECESSION CONSTANT
                 ERAIN       0.00  EXPONENT OF PRECIPITATION
                 STRIMP      1.00  PERCENT IMPERVIOUS AREA

14 UC          CLARK UNITGRAPH
                   TC        0.76  TIME OF CONCENTRATION
                    R        0.76  STORAGE COEFFICIENT

               SYNTHETIC ACCUMULATED-AREA VS. TIME CURVE WILL BE USED

                                                ...

INCREASED TO MINIMUM OF 0.5
------DSS---ZWRITE Unit  71: Vers.   59:  //MEADOW/API/01JAN1921/1DAY/COMPUTED/
------DSS---ZWRITE Unit  71: Vers.   82:  //MEADOW/API/01JAN1922/1DAY/COMPUTED/

                                    UNIT HYDROGRAPH PARAMETERS
                                CLARK   TC= 24.00 HR,       R= 12.00 HR
                               SNYDER   TP= 18.86 HR,      CP=  0.50

                                     UNIT HYDROGRAPH
                                  2 END-OF-PERIOD ORDINATES
               50.       50.
```

HYDROGRAPH AT STATION SUB1

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
17	JUN	0100	1	0.00	0.00	0.00	8.	17	DEC	0100	184	0.34	0.25	0.09	5.
18	JUN	0100	2	0.00	0.00	0.00	7.	18	DEC	0100	185	0.28	0.22	0.06	9.
19	JUN	0100	3	0.27	0.27	0.00	6.	19	DEC	0100	186	0.00	0.00	0.00	5.
20	JUN	0100	4	0.23	0.23	0.00	4.	20	DEC	0100	187	0.05	0.05	0.00	2.
21	JUN	0100	5	0.00	0.00	0.00	3.	21	DEC	0100	188	0.11	0.10	0.00	1.
22	JUN	0100	6	0.00	0.00	0.00	4.	22	DEC	0100	189	0.06	0.06	0.00	1.
23	JUN	0100	7	0.00	0.00	0.00	3.	23	DEC	0100	190	0.00	0.00	0.00	1.
24	JUN	0100	8	0.00	0.00	0.00	3.	24	DEC	0100	191	0.38	0.20	0.18	10.
25	JUN	0100	9	0.00	0.00	0.00	2.	25	DEC	0100	192	0.32	0.18	0.14	18.
26	JUN	0100	10	0.00	0.00	0.00	2.	26	DEC	0100	193	0.00	0.00	0.00	10.
27	JUN	0100	11	0.00	0.00	0.00	1.	27	DEC	0100	194	0.00	0.00	0.00	7.
28	JUN	0100	12	0.00	0.00	0.00	1.	28	DEC	0100	195	0.00	0.00	0.00	2.
29	JUN	0100	13	0.17	0.17	0.00	1.	29	DEC	0100	196	0.11	0.11	0.00	2.
30	JUN	0100	14	0.15	0.15	0.00	1.	30	DEC	0100	197	0.09	0.09	0.00	1.
1	JUL	0100	15	0.27	0.27	0.00	1.	31	DEC	0100	198	0.00	0.00	0.00	1.
2	JUL	0100	16	0.45	0.44	0.00	1.	1	JAN	0100	199	0.00	0.00	0.00	1.
3	JUL	0100	17	0.16	0.16	0.00	2.	2	JAN	0100	200	0.00	0.00	0.00	1.
4	JUL	0100	18	0.00	0.00	0.00	1.	3	JAN	0100	201	0.00	0.00	0.00	1.
5	JUL	0100	19	0.00	0.00	0.00	1.	4	JAN	0100	202	0.68	0.35	0.33	17.
6	JUL	0100	20	0.11	0.11	0.00	1.	5	JAN	0100	203	0.54	0.23	0.30	35.
7	JUL	0100	21	0.09	0.09	0.00	1.	6	JAN	0100	204	0.00	0.00	0.00	21.
8	JUL	0100	22	0.00	0.00	0.00	0.	7	JAN	0100	205	0.00	0.00	0.00	5.
9	JUL	0100	23	0.00	0.00	0.00	0.	8	JAN	0100	206	0.08	0.08	0.00	8.
10	JUL	0100	24	0.42	0.42	0.00	0.	9	JAN	0100	207	0.07	0.07	0.00	3.
11	JUL	0100	25	0.36	0.36	0.00	1.	10	JAN	0100	208	0.16	0.14	0.02	4.
12	JUL	0100	26	0.00	0.00	0.00	1.	11	JAN	0100	209	0.42	0.21	0.21	14.
13	JUL	0100	27	0.00	0.00	0.00	1.	12	JAN	0100	210	0.24	0.11	0.13	21.
14	JUL	0100	28	0.01	0.01	0.00	1.	13	JAN	0100	211	0.22	0.11	0.11	16.
15	JUL	0100	29	0.00	0.00	0.00	1.	14	JAN	0100	212	0.18	0.10	0.08	13.
16	JUL	0100	30	0.17	0.17	0.00	1.	15	JAN	0100	213	0.00	0.00	0.00	7.

17	JUL	0100	31	0.15	0.15	0.00	1.	*	16	JAN	0100	214	0.27	0.12	0.15	10.
18	JUL	0100	32	0.00	0.00	0.00	0.	*	17	JAN	0100	215	0.28	0.12	0.16	19.
19	JUL	0100	33	0.28	0.28	0.00	0.	*	18	JAN	0100	216	0.05	0.05	0.00	11.
20	JUL	0100	34	1.28	1.10	0.17	9.	*	19	JAN	0100	217	0.53	0.16	0.37	21.
21	JUL	0100	35	0.88	0.72	0.16	21.	*	20	JAN	0100	218	0.48	0.15	0.33	40.
22	JUL	0100	36	0.24	0.24	0.00	17.	*	21	JAN	0100	219	0.37	0.14	0.24	35.
23	JUL	0100	37	0.21	0.21	0.00	8.	*	22	JAN	0100	220	0.29	0.12	0.17	27.
24	JUL	0100	38	0.19	0.19	0.00	7.	*	23	JAN	0100	221	0.05	0.05	0.00	15.
25	JUL	0100	39	0.16	0.16	0.00	6.	*	24	JAN	0100	222	0.05	0.05	0.00	5.
26	JUL	0100	40	0.28	0.28	0.00	5.	*	25	JAN	0100	223	0.00	0.00	0.00	4.
27	JUL	0100	41	0.28	0.28	0.00	5.	*	26	JAN	0100	224	0.00	0.00	0.00	3.
28	JUL	0100	42	0.03	0.03	0.00	5.	*	27	JAN	0100	225	0.16	0.10	0.06	6.
29	JUL	0100	43	0.00	0.00	0.00	4.	*	28	JAN	0100	226	0.14	0.09	0.05	8.
30	JUL	0100	44	0.33	0.32	0.01	4.	*	29	JAN	0100	227	0.00	0.00	0.00	4.
31	JUL	0100	45	0.45	0.45	0.00	6.	*	30	JAN	0100	228	0.00	0.00	0.00	1.
1	AUG	0100	46	0.12	0.12	0.00	7.	*	31	JAN	0100	229	0.00	0.00	0.00	1.
2	AUG	0100	47	0.10	0.10	0.00	5.	*	1	FEB	0100	230	0.10	0.10	0.00	1.
3	AUG	0100	48	0.00	0.00	0.00	4.	*	2	FEB	0100	231	0.08	0.08	0.00	1.
4	AUG	0100	49	0.03	0.03	0.00	3.	*	3	FEB	0100	232	0.00	0.00	0.00	1.
5	AUG	0100	50	0.38	0.38	0.00	3.	*	4	FEB	0100	233	0.11	0.11	0.00	1.
6	AUG	0100	51	0.30	0.30	0.00	4.	*	5	FEB	0100	234	0.30	0.18	0.13	7.
7	AUG	0100	52	0.13	0.13	0.00	4.	*	6	FEB	0100	235	0.18	0.14	0.04	9.
8	AUG	0100	53	0.11	0.11	0.00	3.	*	7	FEB	0100	236	0.03	0.03	0.00	3.
9	AUG	0100	54	0.00	0.00	0.00	2.	*	8	FEB	0100	237	0.03	0.03	0.00	1.
10	AUG	0100	55	0.00	0.00	0.00	2.	*	9	FEB	0100	238	0.01	0.01	0.00	1.
11	AUG	0100	56	0.00	0.00	0.00	1.	*	10	FEB	0100	239	0.01	0.01	0.00	1.
12	AUG	0100	57	0.00	0.00	0.00	1.	*	11	FEB	0100	240	0.00	0.00	0.00	0.
13	AUG	0100	58	0.00	0.00	0.00	1.	*	12	FEB	0100	241	0.00	0.00	0.00	0.
14	AUG	0100	59	0.00	0.00	0.00	1.	*	13	FEB	0100	242	0.00	0.00	0.00	0.
15	AUG	0100	60	0.00	0.00	0.00	1.	*	14	FEB	0100	243	0.31	0.18	0.13	7.
16	AUG	0100	61	0.94	0.86	0.08	4.	*	15	FEB	0100	244	0.98	0.33	0.65	41.
17	AUG	0100	62	0.82	0.73	0.09	10.	*	16	FEB	0100	245	0.61	0.17	0.44	61.
18	AUG	0100	63	0.02	0.02	0.00	11.	*	17	FEB	0100	246	0.00	0.00	0.00	31.
19	AUG	0100	64	0.00	0.00	0.00	5.	*	18	FEB	0100	247	0.00	0.00	0.00	7.
20	AUG	0100	65	0.00	0.00	0.00	4.	*	19	FEB	0100	248	0.00	0.00	0.00	5.
21	AUG	0100	66	0.00	0.00	0.00	3.	*	20	FEB	0100	249	0.00	0.00	0.00	4.
22	AUG	0100	67	0.00	0.00	0.00	3.	*	21	FEB	0100	250	0.08	0.07	0.01	4.
23	AUG	0100	68	0.00	0.00	0.00	2.	*	22	FEB	0100	251	0.07	0.01	0.00	3.
24	AUG	0100	69	0.38	0.38	0.00	2.	*	23	FEB	0100	252	0.21	0.15	0.06	5.
25	AUG	0100	70	0.32	0.32	0.00	3.	*	24	FEB	0100	253	0.18	0.10	0.08	9.
26	AUG	0100	71	0.11	0.11	0.00	3.	*	25	FEB	0100	254	0.00	0.00	0.00	6.
27	AUG	0100	72	0.09	0.09	0.00	2.	*	26	FEB	0100	255	0.05	0.05	0.00	2.
28	AUG	0100	73	0.00	0.00	0.00	2.	*	27	FEB	0100	256	0.10	0.10	0.00	1.
29	AUG	0100	74	0.05	0.05	0.00	1.	*	28	FEB	0100	257	0.05	0.05	0.00	1.
30	AUG	0100	75	0.00	0.00	0.00	1.	*	1	MAR	0100	258	1.35	0.37	0.98	50.
31	AUG	0100	76	0.01	0.01	0.00	1.	*	2	MAR	0100	259	1.31	0.24	1.07	111.
1	SEP	0100	77	0.03	0.03	0.00	1.	*	3	MAR	0100	260	0.14	0.09	0.05	69.
2	SEP	0100	78	0.01	0.01	0.00	1.	*	4	MAR	0100	261	0.02	0.02	0.00	13.
3	SEP	0100	79	0.00	0.00	0.00	0.	*	5	MAR	0100	262	0.01	0.01	0.00	9.
4	SEP	0100	80	0.00	0.00	0.00	0.	*	6	MAR	0100	263	0.00	0.00	0.00	7.
5	SEP	0100	81	0.00	0.00	0.00	0.	*	7	MAR	0100	264	0.35	0.13	0.21	16.
6	SEP	0100	82	0.00	0.00	0.00	0.	*	8	MAR	0100	265	0.29	0.12	0.17	23.
7	SEP	0100	83	0.03	0.03	0.00	0.	*	9	MAR	0100	266	0.14	0.09	0.05	17.
8	SEP	0100	84	0.13	0.13	0.00	0.	*	10	MAR	0100	267	0.92	0.21	0.71	47.
9	SEP	0100	85	0.17	0.17	0.00	0.	*	11	MAR	0100	268	0.67	0.16	0.50	69.
10	SEP	0100	86	0.06	0.06	0.00	0.	*	12	MAR	0100	269	0.00	0.00	0.00	36.
11	SEP	0100	87	0.02	0.02	0.00	0.	*	13	MAR	0100	270	0.00	0.00	0.00	9.
12	SEP	0100	88	0.02	0.02	0.00	0.	*	14	MAR	0100	271	0.11	0.08	0.03	6.
13	SEP	0100	89	0.00	0.00	0.00	0.	*	15	MAR	0100	272	0.73	0.18	0.55	34.
14	SEP	0100	90	0.18	0.18	0.00	0.	*	16	MAR	0100	273	0.54	0.16	0.38	55.
15	SEP	0100	91	0.15	0.15	0.00	0.	*	17	MAR	0100	274	0.00	0.00	0.00	29.
16	SEP	0100	92	0.00	0.00	0.00	0.	*	18	MAR	0100	275	0.00	0.00	0.00	8.
17	SEP	0100	93	0.02	0.02	0.00	0.	*	19	MAR	0100	276	0.15	0.10	0.06	5.
18	SEP	0100	94	0.28	0.28	0.00	0.	*	20	MAR	0100	277	0.17	0.10	0.07	11.
19	SEP	0100	95	0.22	0.22	0.00	0.	*	21	MAR	0100	278	0.09	0.09	0.00	7.
20	SEP	0100	96	0.02	0.02	0.00	0.	*	22	MAR	0100	279	0.00	0.00	0.00	3.
21	SEP	0100	97	0.45	0.45	0.00	0.	*	23	MAR	0100	280	0.00	0.00	0.00	2.
22	SEP	0100	98	0.37	0.36	0.00	1.	*	24	MAR	0100	281	0.00	0.00	0.00	2.
23	SEP	0100	99	0.00	0.00	0.00	1.	*	25	MAR	0100	282	0.00	0.00	0.00	2.
24	SEP	0100	100	0.24	0.24	0.00	1.	*	26	MAR	0100	283	0.00	0.00	0.00	1.
25	SEP	0100	101	0.33	0.33	0.00	1.	*	27	MAR	0100	284	0.50	0.23	0.27	15.
26	SEP	0100	102	0.35	0.34	0.00	1.	*	28	MAR	0100	285	0.42	0.21	0.22	26.
27	SEP	0100	103	0.31	0.31	0.00	1.	*	29	MAR	0100	286	0.00	0.00	0.00	15.
28	SEP	0100	104	0.09	0.09	0.00	2.	*	30	MAR	0100	287	0.00	0.00	0.00	4.
29	SEP	0100	105	0.00	0.00	0.00	1.	*	31	MAR	0100	288	1.00	0.33	0.67	36.
30	SEP	0100	106	0.05	0.05	0.00	1.	*	1	APR	0100	289	0.84	0.30	0.54	68.
1	OCT	0100	107	0.05	0.05	0.00	1.	*	2	APR	0100	290	0.00	0.00	0.00	38.
2	OCT	0100	108	0.00	0.00	0.00	1.	*	3	APR	0100	291	0.00	0.00	0.00	9.
3	OCT	0100	109	0.06	0.06	0.00	0.	*	4	APR	0100	292	0.00	0.00	0.00	7.
4	OCT	0100	110	0.05	0.05	0.00	0.	*	5	APR	0100	293	0.25	0.17	0.09	10.
5	OCT	0100	111	0.00	0.00	0.00	0.	*	6	APR	0100	294	0.37	0.19	0.18	19.
6	OCT	0100	112	0.00	0.00	0.00	0.	*	7	APR	0100	295	0.13	0.13	0.00	15.
7	OCT	0100	113	0.00	0.00	0.00	0.	*	8	APR	0100	296	0.00	0.00	0.00	5.
8	OCT	0100	114	0.06	0.06	0.00	0.	*	9	APR	0100	297	0.42	0.27	0.15	11.
9	OCT	0100	115	0.06	0.05	0.00	0.	*	10	APR	0100	298	0.35	0.19	0.16	21.
10	OCT	0100	116	0.00	0.00	0.00	0.	*	11	APR	0100	299	0.29	0.18	0.12	19.
11	OCT	0100	117	0.09	0.09	0.00	0.	*	12	APR	0100	300	0.25	0.16	0.08	15.
12	OCT	0100	118	0.00	0.00	0.00	0.	*	13	APR	0100	301	0.00	0.00	0.00	8.
13	OCT	0100	119	0.00	0.00	0.00	0.	*	14	APR	0100	302	0.00	0.00	0.00	4.
14	OCT	0100	120	0.00	0.00	0.00	0.	*	15	APR	0100	303	0.64	0.34	0.30	19.
15	OCT	0100	121	0.00	0.00	0.00	0.	*	16	APR	0100	304	0.55	0.24	0.31	37.
16	OCT	0100	122	0.00	0.00	0.00	0.	*	17	APR	0100	305	0.00	0.00	0.00	23.
17	OCT	0100	123	0.00	0.00	0.00	0.	*	18	APR	0100	306	0.86	0.30	0.56	34.
18	OCT	0100	124	0.00	0.00	0.00	0.	*	19	APR	0100	307	0.78	0.29	0.50	62.
19	OCT	0100	125	0.00	0.00	0.00	0.	*	20	APR	0100	308	0.05	0.05	0.00	37.
20	OCT	0100	126	0.00	0.00	0.00	0.	*	21	APR	0100	309	0.00	0.00	0.00	10.
21	OCT	0100	127	0.00	0.00	0.00	0.	*	22	APR	0100	310	0.03	0.03	0.00	8.
22	OCT	0100	128	0.00	0.00	0.00	0.	*	23	APR	0100	311	0.03	0.03	0.00	6.
23	OCT	0100	129	0.00	0.00	0.00	0.	*	24	APR	0100	312	0.00	0.00	0.00	5.

24	OCT	0100	130	0.00	0.00	0.00	0.	*	25	APR	0100	319	0.00	0.00	0.00	4.
25	OCT	0100	131	0.00	0.00	0.00	0.	*	26	APR	0100	320	0.40	0.24	0.13	10.
26	OCT	0100	132	0.00	0.00	0.00	0.	*	27	APR	0100	321	0.33	0.24	0.09	16.
27	OCT	0100	133	0.19	0.19	0.00	0.	*	28	APR	0100	322	1.26	0.49	0.77	48.
28	OCT	0100	134	0.16	0.16	0.00	0.	*	29	APR	0100	323	1.11	0.35	0.77	88.
29	OCT	0100	135	0.00	0.00	0.00	0.	*	30	APR	0100	324	0.04	0.04	0.00	53.
30	OCT	0100	136	0.00	0.00	0.00	0.	*	1	MAY	0100	325	0.00	0.00	0.00	12.
31	OCT	0100	137	0.33	0.32	0.00	0.	*	2	MAY	0100	326	0.04	0.04	0.00	10.
1	NOV	0100	138	0.74	0.72	0.01	1.	*	3	MAY	0100	327	0.35	0.25	0.10	13.
2	NOV	0100	139	0.42	0.42	0.00	3.	*	4	MAY	0100	328	0.76	0.28	0.48	37.
3	NOV	0100	140	0.03	0.03	0.00	3.	*	5	MAY	0100	329	0.41	0.27	0.15	41.
4	NOV	0100	141	0.00	0.00	0.00	2.	*	6	MAY	0100	330	0.53	0.31	0.23	29.
5	NOV	0100	142	0.00	0.00	0.00	2.	*	7	MAY	0100	331	0.45	0.28	0.17	31.
6	NOV	0100	143	0.00	0.00	0.00	1.	*	8	MAY	0100	332	0.00	0.00	0.00	19.
7	NOV	0100	144	0.00	0.00	0.00	1.	*	9	MAY	0100	333	0.00	0.00	0.00	9.
8	NOV	0100	145	0.00	0.00	0.00	1.	*	10	MAY	0100	334	0.07	0.06	0.00	7.
9	NOV	0100	146	0.18	0.18	0.00	1.	*	11	MAY	0100	335	0.15	0.15	0.00	6.
10	NOV	0100	147	0.17	0.17	0.00	1.	*	12	MAY	0100	336	0.09	0.09	0.00	5.
11	NOV	0100	148	0.03	0.02	0.00	1.	*	13	MAY	0100	337	0.01	0.01	0.00	4.
12	NOV	0100	149	0.03	0.03	0.00	0.	*	14	MAY	0100	338	0.00	0.00	0.00	3.
13	NOV	0100	150	0.15	0.15	0.00	0.	*	15	MAY	0100	339	0.00	0.00	0.00	2.
14	NOV	0100	151	0.56	0.54	0.02	1.	*	16	MAY	0100	340	0.31	0.31	0.00	2.
15	NOV	0100	152	0.38	0.38	0.00	4.	*	17	MAY	0100	341	0.15	0.14	0.00	2.
16	NOV	0100	153	0.19	0.19	0.00	4.	*	18	MAY	0100	342	0.37	0.34	0.03	3.
17	NOV	0100	154	0.52	0.47	0.04	6.	*	19	MAY	0100	343	0.30	0.30	0.00	5.
18	NOV	0100	155	0.30	0.29	0.00	9.	*	20	MAY	0100	344	0.03	0.03	0.00	5.
19	NOV	0100	156	0.40	0.35	0.04	8.	*	21	MAY	0100	345	0.22	0.22	0.00	4.
20	NOV	0100	157	0.33	0.28	0.05	13.	*	22	MAY	0100	346	0.68	0.49	0.19	13.
21	NOV	0100	158	0.00	0.00	0.00	11.	*	23	MAY	0100	347	0.42	0.32	0.09	23.
22	NOV	0100	159	0.00	0.00	0.00	7.	*	24	MAY	0100	348	0.08	0.08	0.00	14.
23	NOV	0100	160	0.00	0.00	0.00	4.	*	25	MAY	0100	349	0.07	0.07	0.00	9.
24	NOV	0100	161	0.02	0.02	0.00	4.	*	26	MAY	0100	350	0.00	0.00	0.00	6.
25	NOV	0100	162	0.02	0.02	0.00	4.	*	27	MAY	0100	351	0.12	0.12	0.00	5.
26	NOV	0100	163	0.04	0.04	0.00	3.	*	28	MAY	0100	352	0.11	0.10	0.00	4.
27	NOV	0100	164	0.35	0.33	0.02	4.	*	29	MAY	0100	353	0.00	0.00	0.00	3.
28	NOV	0100	165	0.56	0.39	0.17	14.	*	30	MAY	0100	354	0.00	0.00	0.00	3.
29	NOV	0100	166	0.24	0.24	0.00	10.	*	31	MAY	0100	355	0.00	0.00	0.00	2.
30	NOV	0100	167	0.00	0.00	0.00	7.	*	1	JUN	0100	356	0.36	0.35	0.00	2.
1	DEC	0100	168	0.00	0.00	0.00	5.	*	2	JUN	0100	357	1.01	0.70	0.31	19.
2	DEC	0100	169	0.19	0.19	0.00	4.	*	3	JUN	0100	358	0.60	0.40	0.20	37.
3	DEC	0100	170	0.17	0.17	0.00	4.	*	4	JUN	0100	359	0.31	0.28	0.03	25.
4	DEC	0100	171	0.18	0.18	0.00	3.	*	5	JUN	0100	360	0.26	0.25	0.01	14.
5	DEC	0100	172	0.15	0.15	0.00	3.	*	6	JUN	0100	361	0.01	0.01	0.00	11.
6	DEC	0100	173	0.00	0.00	0.00	2.	*	7	JUN	0100	362	0.37	0.30	0.07	12.
7	DEC	0100	174	0.00	0.00	0.00	2.	*	8	JUN	0100	363	0.31	0.28	0.03	14.
8	DEC	0100	175	0.01	0.01	0.00	1.	*	9	JUN	0100	364	0.00	0.00	0.00	10.
9	DEC	0100	176	0.00	0.00	0.00	1.	*	10	JUN	0100	365	0.42	0.32	0.09	12.
10	DEC	0100	177	0.00	0.00	0.00	1.	*	11	JUN	0100	366	0.43	0.33	0.10	18.
11	DEC	0100	178	0.00	0.00	0.00	1.	*	12	JUN	0100	367	0.06	0.06	0.00	14.
12	DEC	0100	179	0.00	0.00	0.00	1.	*	13	JUN	0100	368	0.03	0.03	0.00	7.
13	DEC	0100	180	0.00	0.00	0.00	0.	*	14	JUN	0100	369	0.04	0.04	0.00	6.
14	DEC	0100	181	0.00	0.00	0.00	0.	*	15	JUN	0100	370	0.01	0.01	0.00	5.
15	DEC	0100	182	0.00	0.00	0.00	0.	*	16	JUN	0100	371	0.00	0.00	0.00	4.
16	DEC	0100	183	0.00	0.00	0.00	0.	*	17	JUN	0100	372	0.00	0.00	0.00	3.

TOTAL RAINFALL = 60.65, TOTAL LOSS = 41.88, TOTAL EXCESS = 18.77

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		10-DAY	30-DAY	60-DAY	365.0-DAY
(CFS)	(HR)				
		(CFS)			
111.	61992.00	37.	25.	21.	8.
		(INCHES) 7.695	7.459	18.625	30.873
		(AC-FT) 733.	1480.	3695.	6125.

CUMULATIVE AREA = 3.72 SQ MI

HYDROGRAPH AT STATION SUB1
PLAN 1, RATIO = 1.00

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
17	JUN	0100	1	8.	17	SEP	0100	93	0.	18	DEC	0100	185	8.	20	MAR	0100	277	11.
18	JUN	0100	2	7.	18	SEP	0100	94	0.	19	DEC	0100	186	5.	21	MAR	0100	278	7.
19	JUN	0100	3	6.	19	SEP	0100	95	0.	20	DEC	0100	187	2.	22	MAR	0100	279	3.
20	JUN	0100	4	6.	20	SEP	0100	96	0.	21	DEC	0100	188	1.	23	MAR	0100	280	2.
21	JUN	0100	5	5.	21	SEP	0100	97	0.	22	DEC	0100	189	1.	24	MAR	0100	281	2.
22	JUN	0100	6	4.	22	SEP	0100	98	1.	23	DEC	0100	190	1.	25	MAR	0100	282	2.
23	JUN	0100	7	3.	23	SEP	0100	99	1.	24	DEC	0100	191	10.	26	MAR	0100	283	1.
24	JUN	0100	8	3.	24	SEP	0100	100	1.	25	DEC	0100	192	18.	27	MAR	0100	284	15.
25	JUN	0100	9	2.	25	SEP	0100	101	1.	26	DEC	0100	193	10.	28	MAR	0100	285	28.
26	JUN	0100	10	2.	26	SEP	0100	102	1.	27	DEC	0100	194	2.	29	MAR	0100	286	15.
27	JUN	0100	11	1.	27	SEP	0100	103	1.	28	DEC	0100	195	2.	30	MAR	0100	287	4.
28	JUN	0100	12	1.	28	SEP	0100	104	2.	29	DEC	0100	196	2.	31	MAR	0100	288	36.
29	JUN	0100	13	1.	29	SEP	0100	105	1.	30	DEC	0100	197	1.	1	APR	0100	289	66.
30	JUN	0100	14	1.	30	SEP	0100	106	1.	31	DEC	0100	198	1.	2	APR	0100	290	38.
1	JUL	0100	15	1.	1	OCT	0100	107	1.	1	JAN	0100	199	1.	3	APR	0100	291	9.
2	JUL	0100	16	1.	2	OCT	0100	108	1.	2	JAN	0100	200	1.	4	APR	0100	292	7.
3	JUL	0100	17	2.	3	OCT	0100	109	0.	3	JAN	0100	201	1.	5	APR	0100	293	10.
4	JUL	0100	18	1.	4	OCT	0100	110	0.	4	JAN	0100	202	17.	6	APR	0100	294	16.
5	JUL	0100	19	1.	5	OCT	0100	111	0.	5	JAN	0100	203	35.	7	APR	0100	295	15.
6	JUL	0100	20	1.	6	OCT	0100	112	0.	6	JAN	0100	204	21.	8	APR	0100	296	5.

7	JUL	0100	21	1.	*	7	OCT	0100	113	0.	*	7	JAN	0100	205	5.	*	9	APR	0100	297	11.
8	JUL	0100	22	0.	*	8	OCT	0100	114	0.	*	8	JAN	0100	206	4.	*	10	APR	0100	298	21.
9	JUL	0100	23	0.	*	9	OCT	0100	115	0.	*	9	JAN	0100	207	3.	*	11	APR	0100	299	19.
10	JUL	0100	24	0.	*	10	OCT	0100	116	0.	*	10	JAN	0100	208	4.	*	12	APR	0100	300	15.
11	JUL	0100	25	1.	*	11	OCT	0100	117	0.	*	11	JAN	0100	209	14.	*	13	APR	0100	301	9.
12	JUL	0100	26	1.	*	12	OCT	0100	118	0.	*	12	JAN	0100	210	21.	*	14	APR	0100	302	4.
13	JUL	0100	27	1.	*	13	OCT	0100	119	0.	*	13	JAN	0100	211	16.	*	15	APR	0100	303	19.
14	JUL	0100	28	1.	*	14	OCT	0100	120	0.	*	14	JAN	0100	212	13.	*	16	APR	0100	304	37.
15	JUL	0100	29	1.	*	15	OCT	0100	121	0.	*	15	JAN	0100	213	7.	*	17	APR	0100	305	23.
16	JUL	0100	30	1.	*	16	OCT	0100	122	0.	*	16	JAN	0100	214	10.	*	18	APR	0100	306	34.
17	JUL	0100	31	1.	*	17	OCT	0100	123	0.	*	17	JAN	0100	215	19.	*	19	APR	0100	307	42.
18	JUL	0100	32	0.	*	18	OCT	0100	124	0.	*	18	JAN	0100	216	11.	*	20	APR	0100	308	37.
19	JUL	0100	33	0.	*	19	OCT	0100	125	0.	*	19	JAN	0100	217	21.	*	21	APR	0100	309	10.
20	JUL	0100	34	9.	*	20	OCT	0100	126	0.	*	20	JAN	0100	218	40.	*	22	APR	0100	310	8.
21	JUL	0100	35	21.	*	21	OCT	0100	127	0.	*	21	JAN	0100	219	35.	*	23	APR	0100	311	6.
22	JUL	0100	36	17.	*	22	OCT	0100	128	0.	*	22	JAN	0100	220	27.	*	24	APR	0100	312	5.
23	JUL	0100	37	8.	*	23	OCT	0100	129	0.	*	23	JAN	0100	221	15.	*	25	APR	0100	313	4.
24	JUL	0100	38	7.	*	24	OCT	0100	130	0.	*	24	JAN	0100	222	5.	*	26	APR	0100	314	10.
25	JUL	0100	39	6.	*	25	OCT	0100	131	0.	*	25	JAN	0100	223	4.	*	27	APR	0100	315	16.
26	JUL	0100	40	5.	*	26	OCT	0100	132	0.	*	26	JAN	0100	224	3.	*	28	APR	0100	316	48.
27	JUL	0100	41	5.	*	27	OCT	0100	133	0.	*	27	JAN	0100	225	6.	*	29	APR	0100	317	88.
28	JUL	0100	42	5.	*	28	OCT	0100	134	0.	*	28	JAN	0100	226	8.	*	30	APR	0100	318	53.
29	JUL	0100	43	4.	*	29	OCT	0100	135	0.	*	29	JAN	0100	227	4.	*	1	MAY	0100	319	12.
30	JUL	0100	44	4.	*	30	OCT	0100	136	0.	*	30	JAN	0100	228	1.	*	2	MAY	0100	320	10.
31	JUL	0100	45	6.	*	31	OCT	0100	137	0.	*	31	JAN	0100	229	1.	*	3	MAY	0100	321	13.
1	AUG	0100	46	7.	*	1	NOV	0100	138	1.	*	1	FEB	0100	230	1.	*	4	MAY	0100	322	37.
2	AUG	0100	47	5.	*	2	NOV	0100	139	3.	*	2	FEB	0100	231	1.	*	5	MAY	0100	323	41.
3	AUG	0100	48	4.	*	3	NOV	0100	140	3.	*	3	FEB	0100	232	1.	*	6	MAY	0100	324	29.
4	AUG	0100	49	3.	*	4	NOV	0100	141	2.	*	4	FEB	0100	233	1.	*	7	MAY	0100	325	21.
5	AUG	0100	50	3.	*	5	NOV	0100	142	2.	*	5	FEB	0100	234	7.	*	8	MAY	0100	326	19.
6	AUG	0100	51	4.	*	6	NOV	0100	143	1.	*	6	FEB	0100	235	9.	*	9	MAY	0100	327	9.
7	AUG	0100	52	4.	*	7	NOV	0100	144	1.	*	7	FEB	0100	236	3.	*	10	MAY	0100	328	7.
8	AUG	0100	53	3.	*	8	NOV	0100	145	1.	*	8	FEB	0100	237	1.	*	11	MAY	0100	329	6.
9	AUG	0100	54	2.	*	9	NOV	0100	146	1.	*	9	FEB	0100	238	1.	*	12	MAY	0100	330	5.
10	AUG	0100	55	2.	*	10	NOV	0100	147	1.	*	10	FEB	0100	239	1.	*	13	MAY	0100	331	4.
11	AUG	0100	56	1.	*	11	NOV	0100	148	1.	*	11	FEB	0100	240	0.	*	14	MAY	0100	332	3.
12	AUG	0100	57	1.	*	12	NOV	0100	149	0.	*	12	FEB	0100	241	0.	*	15	MAY	0100	333	2.
13	AUG	0100	58	1.	*	13	NOV	0100	150	0.	*	13	FEB	0100	242	0.	*	16	MAY	0100	334	2.
14	AUG	0100	59	1.	*	14	NOV	0100	151	1.	*	14	FEB	0100	243	7.	*	17	MAY	0100	335	2.
15	AUG	0100	60	1.	*	15	NOV	0100	152	4.	*	15	FEB	0100	244	41.	*	18	MAY	0100	336	3.
16	AUG	0100	61	4.	*	16	NOV	0100	153	4.	*	16	FEB	0100	245	61.	*	19	MAY	0100	337	5.
17	AUG	0100	62	12.	*	17	NOV	0100	154	6.	*	17	FEB	0100	246	31.	*	20	MAY	0100	338	5.
18	AUG	0100	63	11.	*	18	NOV	0100	155	9.	*	18	FEB	0100	247	7.	*	21	MAY	0100	339	4.
19	AUG	0100	64	5.	*	19	NOV	0100	156	8.	*	19	FEB	0100	248	5.	*	22	MAY	0100	340	13.
20	AUG	0100	65	4.	*	20	NOV	0100	157	13.	*	20	FEB	0100	249	4.	*	23	MAY	0100	341	23.
21	AUG	0100	66	3.	*	21	NOV	0100	158	11.	*	21	FEB	0100	250	4.	*	24	MAY	0100	342	14.
22	AUG	0100	67	3.	*	22	NOV	0100	159	7.	*	22	FEB	0100	251	3.	*	25	MAY	0100	343	8.
23	AUG	0100	68	2.	*	23	NOV	0100	160	6.	*	23	FEB	0100	252	5.	*	26	MAY	0100	344	6.
24	AUG	0100	69	2.	*	24	NOV	0100	161	4.	*	24	FEB	0100	253	9.	*	27	MAY	0100	345	5.
25	AUG	0100	70	1.	*	25	NOV	0100	162	4.	*	25	FEB	0100	254	6.	*	28	MAY	0100	346	4.
26	AUG	0100	71	1.	*	26	NOV	0100	163	3.	*	26	FEB	0100	255	2.	*	29	MAY	0100	347	3.
27	AUG	0100	72	2.	*	27	NOV	0100	164	4.	*	27	FEB	0100	256	1.	*	30	MAY	0100	348	3.
28	AUG	0100	73	2.	*	28	NOV	0100	165	14.	*	28	FEB	0100	257	1.	*	31	MAY	0100	349	2.
29	AUG	0100	74	1.	*	29	NOV	0100	166	16.	*	1	MAR	0100	258	30.	*	1	JUN	0100	350	2.
30	AUG	0100	75	1.	*	30	NOV	0100	167	7.	*	2	MAR	0100	259	111.	*	2	JUN	0100	351	19.
31	AUG	0100	76	1.	*						*	3	MAR	0100	260	69.	*	3	JUN	0100	352	37.
1	SEP	0100	77	1.	*	2	DEC	0100	169	4.	*	4	MAR	0100	261	13.	*	4	JUN	0100	353	25.
2	SEP	0100	78	1.	*	3	DEC	0100	170	4.	*	5	MAR	0100	262	9.	*	5	JUN	0100	354	14.
3	SEP	0100	79	0.	*	4	DEC	0100	171	3.	*	6	MAR	0100	263	7.	*	6	JUN	0100	355	11.
4	SEP	0100	80	0.	*	5	DEC	0100	172	3.	*	7	MAR	0100	264	16.	*	7	JUN	0100	356	12.
5	SEP	0100	81	0.	*	6	DEC	0100	173	2.	*	8	MAR	0100	265	25.	*	8	JUN	0100	357	14.
6	SEP	0100	82	0.	*	7	DEC	0100	174	2.	*	9	MAR	0100	266	17.	*	9	JUN	0100	358	10.
7	SEP	0100	83	0.	*	8	DEC	0100	175	1.	*	10	MAR	0100	267	43.	*	10	JUN	0100	359	12.
8	SEP	0100	84	0.	*	9	DEC	0100	176	1.	*	11	MAR	0100	268	69.	*	11	JUN	0100	360	18.
9	SEP	0100	85	0.	*	10	DEC	0100	177	1.	*	12	MAR	0100	269	36.	*	12	JUN	0100	361	14.
10	SEP	0100	86	0.	*	11	DEC	0100	178	1.	*	13	MAR	0100	270	9.	*	13	JUN	0100	362	7.
11	SEP	0100	87	0.	*	12	DEC	0100	179	1.	*	14	MAR	0100	271	8.	*	14	JUN	0100	363	6.
12	SEP	0100	88	0.	*	13	DEC	0100	180	0.	*	15	MAR	0100	272	34.	*	15	JUN	0100	364	3.
13	SEP	0100	89	0.	*	14	DEC	0100	181	0.	*	16	MAR	0100	273	55.	*	16	JUN	0100	365	4.
14	SEP	0100	90	0.	*	15	DEC	0100	182	0.	*	17	MAR	0100	274	29.	*	17	JUN	0100	366	3.
15	SEP	0100	91	0.	*	16	DEC	0100	183	0.	*	18	MAR	0100	275	8.	*					
16	SEP	0100	92	0.	*	17	DEC	0100	184	5.	*	19	MAR	0100	276	9.	*					

PEAK FLOW TIME MAXIMUM AVERAGE FLOW

*	(CFS)	(HR)	10-DAY	30-DAY	90-DAY	365.0-DAY
		(CFS)				
	111.	4193.00	37.	25.	21.	8.
		(INCHES)	3.695	7.459	18.625	30.873
		(AC-FT)	733.	1480.	3695.	6125.

CUMULATIVE AREA = 3.72 SQ MI

PLAN 2 INPUT DATA FOR STATION SUB1 ARE SAME AS FOR PLAN 1

17 RK .... SUB2 ....

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        *              *
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19 KO         OUTPUT CONTROL VARIABLES
                   IPRNT             2  PRINT CONTROL
                   IPLOT             0  PLOT CONTROL
                   QSCAL            0.  HYDROGRAPH PLOT SCALE

            SUBBASIN RUNOFF DATA

20 BA         SUBBASIN CHARACTERISTICS
                   TAREA          0.70  SUBBASIN AREA
                    SNAP 20000000.00  NORMAL ANNUAL PRECIPITATION
                   RATIO          0.00  RATIO OF HYDROGRAPH

              PRECIPITATION DATA

12 PB              STORM         40.65  BASIN TOTAL PRECIPITATION

12 PI           INCREMENTAL PRECIPITATION PATTERN
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0.00	0.27	0.23	0.00	0.05	0.00	0.00	0.00	0.00	0.00
0.00	0.17	0.15	0.27	0.45	0.18	0.00	0.00	0.11	0.09
0.00	0.00	0.42	0.36	0.00	0.00	0.01	0.00	0.17	0.12
0.00	0.29	1.28	0.88	0.24	0.21	0.19	0.16	0.30	0.28
0.03	0.00	0.53	0.45	0.12	0.10	0.00	0.03	0.38	0.30
0.13	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.94
0.82	0.02	0.00	0.00	0.00	0.00	0.00	0.38	0.32	0.11
0.08	0.00	0.00	0.00	0.01	0.03	0.01	0.00	0.00	0.00
0.00	0.03	0.14	0.17	0.06	0.02	0.02	0.00	0.18	0.15
0.00	0.02	0.28	0.22	0.02	0.45	0.37	0.00	0.24	0.23
0.35	0.31	0.09	0.00	0.35	0.05	0.00	0.06	0.05	0.00
0.00	0.00	0.06	0.06	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.19	0.16	0.00	0.00	0.33	0.74	0.42	0.03	0.00
0.00	0.00	0.05	0.00	0.16	0.17	0.02	0.03	0.15	0.58
0.38	0.19	0.52	0.30	0.40	0.33	0.00	0.00	0.00	0.02
0.02	0.04	0.35	0.56	0.24	0.00	0.00	0.19	0.17	0.18
0.15	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.05
0.00	0.00	0.34	0.28	0.00	0.35	0.11	0.06	0.00	0.39
0.32	0.00	0.00	0.00	0.11	0.09	0.00	0.00	0.00	0.00
0.68	0.54	0.00	0.00	0.08	0.07	0.16	0.42	0.24	0.22
0.18	0.00	0.27	0.29	0.05	0.53	0.48	0.37	0.29	0.05
0.05	0.00	0.00	0.16	0.14	0.00	0.00	0.00	0.10	0.09
0.00	0.11	0.30	0.18	0.03	0.03	0.01	0.01	0.00	0.00
0.00	0.31	0.98	0.41	0.00	0.00	0.00	0.00	0.08	0.07
0.21	0.18	0.00	0.05	0.10	0.03	1.35	1.31	0.14	0.02
0.01	0.00	0.35	0.29	0.14	0.92	0.67	0.00	0.00	0.11
0.73	0.54	0.00	0.00	0.15	0.17	0.03	0.00	0.00	0.00
0.00	0.00	0.50	0.42	0.00	0.00	1.05	0.84	0.00	0.00
0.00	0.25	0.37	0.13	0.00	0.42	0.35	0.29	0.25	0.00
0.00	0.64	0.55	0.00	0.86	0.78	0.05	0.00	0.03	0.03
0.00	0.00	0.40	0.33	1.26	1.11	0.04	0.00	0.04	0.35
0.76	0.41	0.53	0.45	0.00	0.00	0.07	0.15	0.09	0.01
0.00	0.00	0.11	0.15	0.37	0.30	0.03	0.22	0.68	0.42
0.08	0.07	0.00	0.12	0.11	0.00	0.00	0.00	0.36	1.01
0.40	0.31	0.28	0.01	0.37	0.31	0.00	0.42	0.43	0.08
0.03	0.04	0.01							

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22 LS         SCS LOSS RATE
                   STRTL          0.02  INITIAL ABSTRACTION
                  CRVNBR         99.00  CURVE NUMBER
                   RTIMP         99.00  PERCENT IMPERVIOUS AREA

21 UC         CLARK UNITGRAPH
                      TC          1.00  TIME OF CONCENTRATION
                       R          1.00  STORAGE COEFFICIENT

              SYNTHETIC ACCUMULATED-AREA VS. TIME CURVE WILL BE USED

                                                          ***

R INCREASED TO MINIMUM OF 0.5

****DSS*** ZSRTS:  FATAL ERROR  - NUMBER OF VALUES TO STORE IS LESS THAN 1
VALS:       0
athname: ///API//1DAY/COMPUTED/

                                  UNIT HYDROGRAPH PARAMETERS
                            CLARK    TC= 24.00 HR,        R= 12.00 HR
                            SNYDER   TP= 18.66 HR,        CP= 0.50

                                        UNIT HYDROGRAPH
                                 2 END-OF-PERIOD ORDINATES
              9.         9.

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                          HYDROGRAPH AT STATION      SUB3

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
17	JUN	0100	1	0.00	0.00	0.00	0.	*	17	DEC	0100	184	0.34	0.00	0.34	2.
18	JUN	0100	2	0.00	0.00	0.00	0.	*	18	DEC	0100	185	0.28	0.00	0.28	4.
19	JUN	0100	3	0.27	0.00	0.27	3.	*	19	DEC	0100	186	0.00	0.00	0.00	3.
20	JUN	0100	4	0.23	0.00	0.23	5.	*	20	DEC	0100	187	0.05	0.00	0.05	1.
21	JUN	0100	5	0.00	0.00	0.00	2.	*	21	DEC	0100	188	0.11	0.00	0.11	2.
22	JUN	0100	6	0.00	0.00	0.00	0.	*	22	DEC	0100	189	0.06	0.00	0.06	2.

23	JUN	0100	7	0.00	0.00	0.00	0.	+	23	DEC	0100	190	0.00	0.00	0.00	1.	
24	JUN	0100	8	0.00	0.00	0.00	0.	+	24	DEC	0100	191	0.35	0.00	0.35	4.	
25	JUN	0100	9	0.00	0.00	0.00	0.	+	25	DEC	0100	192	0.32	0.00	0.32	7.	
26	JUN	0100	10	0.00	0.00	0.00	0.	+	26	DEC	0100	193	0.00	0.00	0.00	3.	
27	JUN	0100	11	0.00	0.00	0.00	0.	+	27	DEC	0100	194	0.00	0.00	0.00	0.	
28	JUN	0100	12	0.00	0.00	0.00	0.	+	28	DEC	0100	195	0.00	0.00	0.00	0.	
29	JUN	0100	13	0.17	0.00	0.17	2.	+	29	DEC	0100	196	0.11	0.00	0.11	1.	
30	JUN	0100	14	0.15	0.00	0.15	3.	+	30	DEC	0100	197	0.09	0.00	0.09	2.	
1	JUL	0100	15	0.27	0.00	0.27	4.	+	31	DEC	0100	198	0.00	0.00	0.00	1.	
2	JUL	0100	16	0.45	0.00	0.45	7.	+	1	JAN	0100	199	0.00	0.00	0.00	0.	
3	JUL	0100	17	0.18	0.00	0.18	6.	+	2	JAN	0100	200	0.00	0.00	0.00	0.	
4	JUL	0100	18	0.00	0.00	0.00	2.	+	3	JAN	0100	201	0.00	0.00	0.00	0.	
5	JUL	0100	19	0.00	0.00	0.00	0.	+	4	JAN	0100	202	0.68	0.00	0.68	6.	
6	JUL	0100	20	0.11	0.00	0.11	1.	+	5	JAN	0100	203	0.56	0.00	0.56	11.	
7	JUL	0100	21	0.39	0.00	0.39	2.	+	6	JAN	0100	204	0.00	0.00	0.00	5.	
8	JUL	0100	22	0.00	0.00	0.00	1.	+	7	JAN	0100	205	0.00	0.00	0.00	0.	
9	JUL	0100	23	0.00	0.00	0.00	0.	+	8	JAN	0100	206	0.08	0.00	0.08	1.	
10	JUL	0100	24	0.42	0.00	0.42	4.	+	9	JAN	0100	207	0.07	0.00	0.07	1.	
11	JUL	0100	25	0.36	0.00	0.36	7.	+	10	JAN	0100	208	0.16	0.00	0.16	2.	
12	JUL	0100	26	0.00	0.00	0.00	3.	+	11	JAN	0100	209	0.42	0.00	0.42	5.	
13	JUL	0100	27	0.00	0.00	0.00	0.	+	12	JAN	0100	210	0.24	0.00	0.24	6.	
14	JUL	0100	28	0.01	0.00	0.01	0.	+	13	JAN	0100	211	0.22	0.00	0.22	4.	
15	JUL	0100	29	0.00	0.00	0.00	0.	+	14	JAN	0100	212	0.18	0.00	0.18	4.	
16	JUL	0100	30	0.17	0.00	0.17	2.	+	15	JAN	0100	213	0.00	0.00	0.00	2.	
17	JUL	0100	31	0.15	0.00	0.15	3.	+	16	JAN	0100	214	0.27	0.00	0.27	3.	
18	JUL	0100	32	0.00	0.00	0.00	1.	+	17	JAN	0100	215	0.28	0.00	0.28	5.	
19	JUL	0100	33	0.29	0.00	0.29	3.	+	18	JAN	0100	216	0.05	0.00	0.05	3.	
20	JUL	0100	34	1.28	0.00	1.28	15.	+	19	JAN	0100	217	0.53	0.00	0.53	9.	
21	JUL	0100	35	0.88	0.00	0.88	20.	+	20	JAN	0100	218	0.48	0.00	0.48	9.	
22	JUL	0100	36	0.24	0.00	0.24	11.	+	21	JAN	0100	219	0.37	0.00	0.37	6.	
23	JUL	0100	37	0.21	0.00	0.21	4.	+	22	JAN	0100	220	0.29	0.00	0.29	6.	
24	JUL	0100	38	0.19	0.00	0.19	4.	+	23	JAN	0100	221	0.05	0.00	0.05	3.	
25	JUL	0100	39	0.16	0.00	0.16	3.	+	24	JAN	0100	222	0.05	0.00	0.05	1.	
26	JUL	0100	40	0.30	0.00	0.30	4.	+	25	JAN	0100	223	0.00	0.00	0.00	0.	
27	JUL	0100	41	0.28	0.00	0.28	5.	+	26	JAN	0100	224	0.00	0.00	0.00	0.	
28	JUL	0100	42	0.03	0.00	0.03	3.	+	27	JAN	0100	225	0.16	0.00	0.16	2.	
29	JUL	0100	43	0.00	0.00	0.00	0.	+	28	JAN	0100	226	0.14	0.00	0.14	3.	
30	JUL	0100	44	0.53	0.00	0.53	5.	+	29	JAN	0100	227	0.00	0.00	0.00	1.	
31	JUL	0100	45	0.45	0.00	0.45	9.	+	30	JAN	0100	228	0.00	0.00	0.00	0.	
1	AUG	0100	46	0.12	0.00	0.12	5.	+	31	JAN	0100	229	0.00	0.00	0.00	0.	
2	AUG	0100	47	0.10	0.00	0.10	2.	+	1	FEB	0100	230	0.10	0.00	0.10	1.	
3	AUG	0100	48	0.00	0.00	0.00	1.	+	2	FEB	0100	231	0.09	0.00	0.09	2.	
4	AUG	0100	49	0.03	0.00	0.03	0.	+	3	FEB	0100	232	0.00	0.00	0.00	1.	
5	AUG	0100	50	0.38	0.00	0.38	4.	+	4	FEB	0100	233	0.11	0.00	0.11	1.	
6	AUG	0100	51	0.30	0.00	0.30	6.	+	5	FEB	0100	234	0.30	0.00	0.30	4.	
7	AUG	0100	52	0.13	0.00	0.13	4.	+	6	FEB	0100	235	0.18	0.00	0.18	5.	
8	AUG	0100	53	0.11	0.00	0.11	2.	+	7	FEB	0100	236	0.03	0.00	0.03	2.	
9	AUG	0100	54	0.00	0.00	0.00	1.	+	8	FEB	0100	237	0.03	0.00	0.03	1.	
10	AUG	0100	55	0.00	0.00	0.00	0.	+	9	FEB	0100	238	0.01	0.00	0.01	0.	
11	AUG	0100	56	0.00	0.00	0.00	0.	+	10	FEB	0100	239	0.01	0.00	0.01	0.	
12	AUG	0100	57	0.00	0.00	0.00	0.	+	11	FEB	0100	240	0.00	0.00	0.00	0.	
13	AUG	0100	58	0.00	0.00	0.00	0.	+	12	FEB	0100	241	0.00	0.00	0.00	0.	
14	AUG	0100	59	0.00	0.00	0.00	0.	+	13	FEB	0100	242	0.00	0.00	0.00	0.	
15	AUG	0100	60	0.00	0.00	0.00	0.	+	14	FEB	0100	243	0.31	0.00	0.31	3.	
16	AUG	0100	61	0.94	0.00	0.94	9.	+	15	FEB	0100	244	0.98	0.00	0.98	12.	
17	AUG	0100	62	0.82	0.00	0.82	17.	+	16	FEB	0100	245	0.61	0.00	0.61	15.	
18	AUG	0100	63	0.02	0.00	0.02	8.	+	17	FEB	0100	246	0.00	0.00	0.00	4.	
19	AUG	0100	64	0.00	0.00	0.00	0.	+	18	FEB	0100	247	0.00	0.00	0.00	0.	
20	AUG	0100	65	0.00	0.00	0.00	0.	+	19	FEB	0100	248	0.00	0.00	0.00	0.	
21	AUG	0100	66	0.00	0.00	0.00	0.	+	20	FEB	0100	249	0.00	0.00	0.00	0.	
22	AUG	0100	67	0.00	0.00	0.00	0.	+	21	FEB	0100	250	0.08	0.00	0.08	1.	
23	AUG	0100	68	0.00	0.00	0.00	0.	+	22	FEB	0100	251	0.07	0.00	0.07	1.	
24	AUG	0100	69	0.38	0.00	0.38	4.	+	23	FEB	0100	252	0.21	0.00	0.21	3.	
25	AUG	0100	70	0.32	0.00	0.32	7.	+	24	FEB	0100	253	0.18	0.00	0.18	4.	
26	AUG	0100	71	0.11	0.00	0.11	6.	+	25	FEB	0100	254	0.00	0.00	0.00	2.	
27	AUG	0100	72	0.09	0.00	0.09	2.	+	26	FEB	0100	255	0.05	0.00	0.05	1.	
28	AUG	0100	73	0.00	0.00	0.00	1.	+	27	FEB	0100	256	0.10	0.00	0.10	1.	
29	AUG	0100	74	0.00	0.00	0.00	0.	+	28	FEB	0100	257	0.05	0.00	0.05	1.	
30	AUG	0100	75	0.00	0.00	0.00	0.	+	1	MAR	0100	258	1.35	0.00	1.35	13.	
31	AUG	0100	76	0.01	0.00	0.01	0.	+	2	MAR	0100	259	1.31	0.00	1.31	25.	
1	SEP	0100	77	0.03	0.00	0.03	0.	+	3	MAR	0100	260	0.14	0.00	0.14	14.	
2	SEP	0100	78	0.01	0.00	0.01	0.	+	4	MAR	0100	261	0.02	0.00	0.02	1.	
3	SEP	0100	79	0.00	0.00	0.00	0.	+	5	MAR	0100	262	0.01	0.00	0.01	0.	
4	SEP	0100	80	0.00	0.00	0.00	0.	+	6	MAR	0100	263	0.00	0.00	0.00	0.	
5	SEP	0100	81	0.00	0.00	0.00	0.	+	7	MAR	0100	264	0.35	0.00	0.35	1.	
6	SEP	0100	82	0.00	0.00	0.00	0.	+	8	MAR	0100	265	0.29	0.00	0.29	6.	
7	SEP	0100	83	0.03	0.00	0.03	0.	+	9	MAR	0100	266	0.14	0.00	0.14	4.	
8	SEP	0100	84	0.14	0.00	0.14	2.	+	10	MAR	0100	267	0.92	0.00	0.92	10.	
9	SEP	0100	85	0.17	0.00	0.17	3.	+	11	MAR	0100	268	0.67	0.00	0.67	15.	
10	SEP	0100	86	0.06	0.00	0.06	2.	+	12	MAR	0100	269	0.00	0.00	0.00	6.	
11	SEP	0100	87	0.02	0.00	0.02	1.	+	13	MAR	0100	270	0.00	0.00	0.00	0.	
12	SEP	0100	88	0.02	0.00	0.02	0.	+	14	MAR	0100	271	0.11	0.00	0.11	1.	
13	SEP	0100	89	0.00	0.00	0.00	0.	+	15	MAR	0100	272	0.73	0.00	0.73	8.	
14	SEP	0100	90	0.18	0.00	0.18	2.	+	16	MAR	0100	273	0.54	0.00	0.54	12.	
15	SEP	0100	91	0.15	0.00	0.15	3.	+	17	MAR	0100	274	0.00	0.00	0.00	5.	
16	SEP	0100	92	0.00	0.00	0.00	1.	+	18	MAR	0100	275	0.00	0.00	0.00	0.	
17	SEP	0100	93	0.02	0.00	0.02	0.	+	19	MAR	0100	276	0.15	0.00	0.15	1.	
18	SEP	0100	94	0.28	0.00	0.28	3.	+	20	MAR	0100	277	0.17	0.00	0.17	3.	
19	SEP	0100	95	0.22	0.00	0.22	5.	+	21	MAR	0100	278	0.03	0.00	0.03	2.	
20	SEP	0100	96	0.02	0.00	0.02	2.	+	22	MAR	0100	279	0.00	0.00	0.00	0.	
21	SEP	0100	97	0.45	0.00	0.45	4.	+	23	MAR	0100	280	0.00	0.00	0.00	0.	
22	SEP	0100	98	0.37	0.00	0.37	9.	+	24	MAR	0100	281	0.00	0.00	0.00	0.	
23	SEP	0100	99	0.00	0.00	0.00	3.	+	25	MAR	0100	282	0.00	0.00	0.00	0.	
24	SEP	0100	100	0.24	0.00	0.24	2.	+	26	MAR	0100	283	0.00	0.00	0.00	0.	
25	SEP	0100	101	0.33	0.00	0.33	5.	+	27	MAR	0100	284	0.50	0.00	0.50	5.	
26	SEP	0100	102	0.35	0.00	0.35	6.	+	28	MAR	0100	285	0.42	0.00	0.42	9.	
27	SEP	0100	103	0.31	0.00	0.31	6.	+	29	MAR	0100	286	0.00	0.00	0.00	4.	
28	SEP	0100	104	0.09	0.00	0.09	4.	+	30	MAR	0100	287	0.00	0.00	0.00	0.	
29	SEP	0100	105	0.00	0.00	0.00	1.	+	31	MAR	0100	288	1.00	0.00	1.00	9.	

30	SEP	0100	106	0.05	0.00	0.05	1.	*	1	APR	0100	289	0.84	0.00	0.84	17.
1	OCT	0100	107	0.05	0.00	0.05	1.	*	2	APR	0100	290	0.00	0.00	0.00	8.
2	OCT	0100	108	0.00	0.00	0.00	0.	*	3	APR	0100	291	0.00	0.00	0.00	0.
3	OCT	0100	109	0.06	0.00	0.06	1.	*	4	APR	0100	292	0.00	0.00	0.00	0.
4	OCT	0100	110	0.05	0.00	0.05	1.	*	5	APR	0100	293	0.25	0.00	0.25	2.
5	OCT	0100	111	0.00	0.00	0.00	0.	*	6	APR	0100	294	0.37	0.00	0.37	6.
6	OCT	0100	112	0.00	0.00	0.00	0.	*	7	APR	0100	295	0.13	0.00	0.13	5.
7	OCT	0100	113	0.00	0.00	0.00	0.	*	8	APR	0100	296	0.00	0.00	0.00	1.
8	OCT	0100	114	0.06	0.00	0.06	1.	*	9	APR	0100	297	0.42	0.00	0.42	4.
9	OCT	0100	115	0.06	0.00	0.06	1.	*	10	APR	0100	298	0.35	0.00	0.35	7.
10	OCT	0100	116	0.00	0.00	0.00	0.	*	11	APR	0100	299	0.29	0.00	0.29	6.
11	OCT	0100	117	0.00	0.00	0.00	0.	*	12	APR	0100	300	0.25	0.00	0.25	5.
12	OCT	0100	118	0.00	0.00	0.00	0.	*	13	APR	0100	301	0.00	0.00	0.00	2.
13	OCT	0100	119	0.00	0.00	0.00	0.	*	14	APR	0100	302	0.00	0.00	0.00	0.
14	OCT	0100	120	0.00	0.00	0.00	0.	*	15	APR	0100	303	0.44	0.00	0.44	6.
15	OCT	0100	121	0.00	0.00	0.00	0.	*	16	APR	0100	304	0.35	0.00	0.35	11.
16	OCT	0100	122	0.00	0.00	0.00	0.	*	17	APR	0100	305	0.00	0.00	0.00	5.
17	OCT	0100	123	0.00	0.00	0.00	0.	*	18	APR	0100	306	0.86	0.00	0.86	8.
18	OCT	0100	124	0.00	0.00	0.00	0.	*	19	APR	0100	307	0.78	0.00	0.78	15.
19	OCT	0100	125	0.00	0.00	0.00	0.	*	20	APR	0100	308	0.05	0.00	0.05	8.
20	OCT	0100	126	0.00	0.00	0.00	0.	*	21	APR	0100	309	0.00	0.00	0.00	3.
21	OCT	0100	127	0.00	0.00	0.00	0.	*	22	APR	0100	310	0.03	0.00	0.03	0.
22	OCT	0100	128	0.00	0.00	0.00	0.	*	23	APR	0100	311	0.03	0.00	0.03	1.
23	OCT	0100	129	0.00	0.00	0.00	0.	*	24	APR	0100	312	0.00	0.00	0.00	0.
24	OCT	0100	130	0.00	0.00	0.00	0.	*	25	APR	0100	313	0.00	0.00	0.00	0.
25	OCT	0100	131	0.00	0.00	0.00	0.	*	26	APR	0100	314	0.40	0.00	0.40	4.
26	OCT	0100	132	0.00	0.00	0.00	0.	*	27	APR	0100	315	0.33	0.00	0.33	7.
27	OCT	0100	133	0.19	0.00	0.19	2.	*	28	APR	0100	316	1.26	0.00	1.26	15.
28	OCT	0100	134	0.16	0.00	0.16	3.	*	29	APR	0100	317	1.11	0.00	1.11	22.
29	OCT	0100	135	0.00	0.00	0.00	2.	*	30	APR	0100	318	0.04	0.00	0.04	11.
30	OCT	0100	136	0.00	0.00	0.00	0.	*	1	MAY	0100	319	0.00	0.00	0.00	0.
31	OCT	0100	137	0.33	0.00	0.33	3.	*	2	MAY	0100	320	0.04	0.00	0.04	0.
1	NOV	0100	138	0.74	0.00	0.74	10.	*	3	MAY	0100	321	0.35	0.00	0.35	4.
2	NOV	0100	139	0.42	0.00	0.42	11.	*	4	MAY	0100	322	0.76	0.00	0.76	10.
3	NOV	0100	140	0.03	0.00	0.03	4.	*	5	MAY	0100	323	0.41	0.00	0.41	11.
4	NOV	0100	141	0.00	0.00	0.00	0.	*	6	MAY	0100	324	0.53	0.00	0.53	9.
5	NOV	0100	142	0.00	0.00	0.00	0.	*	7	MAY	0100	325	0.45	0.00	0.45	9.
6	NOV	0100	143	0.00	0.00	0.00	0.	*	8	MAY	0100	326	0.00	0.00	0.00	4.
7	NOV	0100	144	0.00	0.00	0.00	0.	*	9	MAY	0100	327	0.00	0.00	0.00	0.
8	NOV	0100	145	0.00	0.00	0.00	0.	*	10	MAY	0100	328	0.07	0.00	0.07	1.
9	NOV	0100	146	0.18	0.00	0.18	2.	*	11	MAY	0100	329	0.15	0.00	0.15	2.
10	NOV	0100	147	0.17	0.00	0.17	3.	*	12	MAY	0100	330	0.09	0.00	0.09	2.
11	NOV	0100	148	0.02	0.00	0.02	2.	*	13	MAY	0100	331	0.01	0.00	0.01	1.
12	NOV	0100	149	0.03	0.00	0.03	0.	*	14	MAY	0100	332	0.00	0.00	0.00	0.
13	NOV	0100	150	0.15	0.00	0.15	2.	*	15	MAY	0100	333	0.00	0.00	0.00	0.
14	NOV	0100	151	0.56	0.00	0.56	7.	*	16	MAY	0100	334	0.11	0.00	0.11	1.
15	NOV	0100	152	0.38	0.00	0.38	9.	*	17	MAY	0100	335	0.15	0.00	0.15	2.
16	NOV	0100	153	0.19	0.00	0.19	5.	*	18	MAY	0100	336	0.37	0.00	0.37	5.
17	NOV	0100	154	0.52	0.00	0.52	7.	*	19	MAY	0100	337	0.30	0.00	0.30	6.
18	NOV	0100	155	0.30	0.00	0.30	8.	*	20	MAY	0100	338	0.03	0.00	0.03	3.
19	NOV	0100	156	0.40	0.00	0.40	5.	*	21	MAY	0100	339	0.22	0.00	0.22	2.
20	NOV	0100	157	0.33	0.00	0.33	7.	*	22	MAY	0100	340	0.68	0.00	0.68	8.
21	NOV	0100	158	0.00	0.00	0.00	3.	*	23	MAY	0100	341	0.42	0.00	0.42	10.
22	NOV	0100	159	0.00	0.00	0.00	0.	*	24	MAY	0100	342	0.08	0.00	0.08	5.
23	NOV	0100	160	0.00	0.00	0.00	0.	*	25	MAY	0100	343	0.07	0.00	0.07	1.
24	NOV	0100	161	0.02	0.00	0.02	0.	*	26	MAY	0100	344	0.00	0.00	0.00	1.
25	NOV	0100	162	0.02	0.00	0.02	0.	*	27	MAY	0100	345	0.12	0.00	0.12	1.
26	NOV	0100	163	0.04	0.00	0.04	1.	*	28	MAY	0100	346	0.11	0.00	0.11	2.
27	NOV	0100	164	0.35	0.00	0.35	4.	*	29	MAY	0100	347	0.00	0.00	0.00	1.
28	NOV	0100	165	0.56	0.00	0.56	9.	*	30	MAY	0100	348	0.00	0.00	0.00	0.
29	NOV	0100	166	0.24	0.00	0.24	7.	*	31	MAY	0100	349	0.00	0.00	0.00	0.
30	NOV	0100	167	0.00	0.00	0.00	2.	*	1	JUN	0100	350	0.36	0.00	0.36	3.
1	DEC	0100	168	0.00	0.00	0.00	0.	*	2	JUN	0100	351	1.01	0.00	1.01	13.
2	DEC	0100	169	0.19	0.00	0.19	2.	*	3	JUN	0100	352	0.60	0.00	0.60	15.
3	DEC	0100	170	0.17	0.00	0.17	3.	*	4	JUN	0100	353	0.31	0.00	0.31	9.
4	DEC	0100	171	0.18	0.00	0.18	3.	*	5	JUN	0100	354	0.26	0.00	0.26	5.
5	DEC	0100	172	0.15	0.00	0.15	3.	*	6	JUN	0100	355	0.01	0.00	0.01	3.
6	DEC	0100	173	0.00	0.00	0.00	1.	*	7	JUN	0100	356	0.37	0.00	0.37	6.
7	DEC	0100	174	0.00	0.00	0.00	0.	*	8	JUN	0100	357	0.31	0.00	0.31	6.
8	DEC	0100	175	0.01	0.00	0.01	0.	*	9	JUN	0100	358	0.00	0.00	0.00	3.
9	DEC	0100	176	0.00	0.00	0.00	0.	*	10	JUN	0100	359	0.42	0.00	0.42	4.
10	DEC	0100	177	0.00	0.00	0.00	0.	*	11	JUN	0100	360	0.43	0.00	0.43	8.
11	DEC	0100	178	0.00	0.00	0.00	0.	*	12	JUN	0100	361	0.06	0.00	0.06	5.
12	DEC	0100	179	0.00	0.00	0.00	0.	*	13	JUN	0100	362	0.03	0.00	0.03	1.
13	DEC	0100	180	0.00	0.00	0.00	0.	*	14	JUN	0100	363	0.04	0.00	0.04	1.
14	DEC	0100	181	0.00	0.00	0.00	0.	*	15	JUN	0100	364	0.01	0.00	0.01	0.
15	DEC	0100	182	0.00	0.00	0.00	0.	*	16	JUN	0100	365	0.00	0.00	0.00	0.
16	DEC	0100	183	0.00	0.00	0.00	0.	*	17	JUN	0100	366	0.00	0.00	0.00	0.

TOTAL RAINFALL = 60.65, TOTAL LOSS = 0.00, TOTAL EXCESS = 60.64

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		10-DAY	30-DAY	90-DAY	365.0-DAY
(CFS)	(HR)				
		(CFS)			
35.	6192.00	9.	6.	3.	3.
		(INCHES) 4.830	9.961	23.450	60.643
		(AC-FT) 180.	368.	875.	2264.

CUMULATIVE AREA = 0.70 SQ MI

HYDROGRAPH AT STATION SUB2
PLAN 1. RATIO = 1.00

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
17	JUN	0100	1	0.	17	SEP	0100	93	0.	16	DEC	0100	185	6.	20	MAR	0100	277	3.
18	JUN	0100	2	0.	18	SEP	0100	94	3.	19	DEC	0100	186	3.	21	MAR	0100	278	2.
19	JUN	0100	3	3.	19	SEP	0100	95	5.	20	DEC	0100	187	1.	22	MAR	0100	279	0.
20	JUN	0100	4	5.	20	SEP	0100	96	3.	21	DEC	0100	188	2.	23	MAR	0100	280	0.
21	JUN	0100	5	2.	21	SEP	0100	97	4.	22	DEC	0100	189	2.	24	MAR	0100	281	0.
22	JUN	0100	6	0.	22	SEP	0100	98	0.	23	DEC	0100	190	1.	25	MAR	0100	282	0.
23	JUN	0100	7	0.	23	SEP	0100	99	3.	24	DEC	0100	191	4.	26	MAR	0100	283	0.
24	JUN	0100	8	0.	24	SEP	0100	100	2.	25	DEC	0100	192	7.	27	MAR	0100	284	5.
25	JUN	0100	9	0.	25	SEP	0100	101	5.	26	DEC	0100	193	5.	28	MAR	0100	285	9.
26	JUN	0100	10	2.	26	SEP	0100	102	6.	27	DEC	0100	194	0.	29	MAR	0100	286	6.
27	JUN	0100	11	0.	27	SEP	0100	103	6.	28	DEC	0100	195	0.	30	MAR	0100	287	0.
28	JUN	0100	12	0.	28	SEP	0100	104	4.	29	DEC	0100	196	1.	31	MAR	0100	288	8.
29	JUN	0100	13	2.	29	SEP	0100	105	1.	30	DEC	0100	197	2.	1	APR	0100	289	17.
30	JUN	0100	14	3.	30	SEP	0100	106	1.	31	DEC	0100	198	1.	2	APR	0100	290	8.
1	JUL	0100	15	4.	1	OCT	0100	107	1.	1	JAN	0100	199	0.	3	APR	0100	291	0.
2	JUL	0100	16	7.	2	OCT	0100	108	0.	2	JAN	0100	200	0.	4	APR	0100	292	0.
3	JUL	0100	17	6.	3	OCT	0100	109	1.	3	JAN	0100	201	0.	5	APR	0100	293	2.
4	JUL	0100	18	2.	4	OCT	0100	110	1.	4	JAN	0100	202	6.	6	APR	0100	294	6.
5	JUL	0100	19	0.	5	OCT	0100	111	0.	5	JAN	0100	203	11.	7	APR	0100	295	5.
6	JUL	0100	20	1.	6	OCT	0100	112	0.	6	JAN	0100	204	5.	8	APR	0100	296	1.
7	JUL	0100	21	2.	7	OCT	0100	113	0.	7	JAN	0100	205	0.	9	APR	0100	297	4.
8	JUL	0100	22	1.	8	OCT	0100	114	1.	8	JAN	0100	206	1.	10	APR	0100	298	7.
9	JUL	0100	23	0.	9	OCT	0100	115	1.	9	JAN	0100	207	1.	11	APR	0100	299	4.
10	JUL	0100	24	4.	10	OCT	0100	116	1.	10	JAN	0100	208	2.	12	APR	0100	300	5.
11	JUL	0100	25	7.	11	OCT	0100	117	0.	11	JAN	0100	209	5.	13	APR	0100	301	2.
12	JUL	0100	26	3.	12	OCT	0100	118	0.	12	JAN	0100	210	6.	14	APR	0100	302	0.
13	JUL	0100	27	0.	13	OCT	0100	119	0.	13	JAN	0100	211	4.	15	APR	0100	303	6.
14	JUL	0100	28	0.	14	OCT	0100	120	0.	14	JAN	0100	212	4.	16	APR	0100	304	11.
15	JUL	0100	29	0.	15	OCT	0100	121	0.	15	JAN	0100	213	2.	17	APR	0100	305	5.
16	JUL	0100	30	2.	16	OCT	0100	122	0.	16	JAN	0100	214	3.	18	APR	0100	306	8.
17	JUL	0100	31	3.	17	OCT	0100	123	0.	17	JAN	0100	215	5.	19	APR	0100	307	15.
18	JUL	0100	32	1.	18	OCT	0100	124	0.	18	JAN	0100	216	3.	20	APR	0100	308	8.
19	JUL	0100	33	3.	19	OCT	0100	125	0.	19	JAN	0100	217	5.	21	APR	0100	309	0.
20	JUL	0100	34	15.	20	OCT	0100	126	0.	20	JAN	0100	218	9.	22	APR	0100	310	0.
21	JUL	0100	35	20.	21	OCT	0100	127	0.	21	JAN	0100	219	8.	23	APR	0100	311	1.
22	JUL	0100	36	11.	22	OCT	0100	128	0.	22	JAN	0100	220	6.	24	APR	0100	312	0.
23	JUL	0100	37	4.	23	OCT	0100	129	0.	23	JAN	0100	221	3.	25	APR	0100	313	0.
24	JUL	0100	38	4.	24	OCT	0100	130	0.	24	JAN	0100	222	1.	26	APR	0100	314	4.
25	JUL	0100	39	3.	25	OCT	0100	131	0.	25	JAN	0100	223	0.	27	APR	0100	315	7.
26	JUL	0100	40	4.	26	OCT	0100	132	0.	26	JAN	0100	224	0.	28	APR	0100	316	15.
27	JUL	0100	41	5.	27	OCT	0100	133	1.	27	JAN	0100	225	2.	29	APR	0100	317	22.
28	JUL	0100	42	3.	28	OCT	0100	134	3.	28	JAN	0100	226	3.	30	APR	0100	318	11.
29	JUL	0100	43	0.	29	OCT	0100	135	2.	29	JAN	0100	227	1.	1	MAY	0100	319	6.
30	JUL	0100	44	5.	30	OCT	0100	136	0.	30	JAN	0100	228	0.	2	MAY	0100	320	0.
31	JUL	0100	45	9.	31	OCT	0100	137	1.	31	JAN	0100	229	0.	3	MAY	0100	321	4.
1	AUG	0100	46	5.	1	NOV	0100	138	10.	1	FEB	0100	230	1.	4	MAY	0100	322	10.
2	AUG	0100	47	2.	2	NOV	0100	139	11.	2	FEB	0100	231	2.	5	MAY	0100	323	11.
3	AUG	0100	48	1.	3	NOV	0100	140	4.	3	FEB	0100	232	1.	6	MAY	0100	324	9.
4	AUG	0100	49	0.	4	NOV	0100	141	0.	4	FEB	0100	233	1.	7	MAY	0100	325	9.
5	AUG	0100	50	4.	5	NOV	0100	142	0.	5	FEB	0100	234	4.	8	MAY	0100	326	4.
6	AUG	0100	51	6.	6	NOV	0100	143	0.	6	FEB	0100	235	5.	9	MAY	0100	327	0.
7	AUG	0100	52	4.	7	NOV	0100	144	0.	7	FEB	0100	236	2.	10	MAY	0100	328	1.
8	AUG	0100	53	2.	8	NOV	0100	145	0.	8	FEB	0100	237	1.	11	MAY	0100	329	2.
9	AUG	0100	54	11.	9	NOV	0100	146	2.	9	FEB	0100	238	0.	12	MAY	0100	330	2.
10	AUG	0100	55	0.	10	NOV	0100	147	3.	10	FEB	0100	239	0.	13	MAY	0100	331	1.
11	AUG	0100	56	0.	11	NOV	0100	148	3.	11	FEB	0100	240	0.	14	MAY	0100	332	0.
12	AUG	0100	57	0.	12	NOV	0100	149	0.	12	FEB	0100	241	0.	15	MAY	0100	333	0.
13	AUG	0100	58	0.	13	NOV	0100	150	2.	13	FEB	0100	242	0.	16	MAY	0100	334	1.
14	AUG	0100	59	0.	14	NOV	0100	151	7.	14	FEB	0100	243	2.	17	MAY	0100	335	2.
15	AUG	0100	60	0.	15	NOV	0100	152	9.	15	FEB	0100	244	12.	18	MAY	0100	336	5.
16	AUG	0100	61	9.	16	NOV	0100	153	5.	16	FEB	0100	245	10.	19	MAY	0100	337	6.
17	AUG	0100	62	17.	17	NOV	0100	154	7.	17	FEB	0100	246	6.	20	MAY	0100	338	3.
18	AUG	0100	63	8.	18	NOV	0100	155	8.	18	FEB	0100	247	0.	21	MAY	0100	339	2.
19	AUG	0100	64	0.	19	NOV	0100	156	7.	19	FEB	0100	248	0.	22	MAY	0100	340	8.
20	AUG	0100	65	0.	20	NOV	0100	157	7.	20	FEB	0100	249	0.	23	MAY	0100	341	10.
21	AUG	0100	66	0.	21	NOV	0100	158	3.	21	FEB	0100	250	1.	24	MAY	0100	342	5.
22	AUG	0100	67	0.	22	NOV	0100	159	3.	22	FEB	0100	251	1.	25	MAY	0100	343	1.
23	AUG	0100	68	0.	23	NOV	0100	160	0.	23	FEB	0100	252	3.	26	MAY	0100	344	1.
24	AUG	0100	69	4.	24	NOV	0100	161	0.	24	FEB	0100	253	4.	27	MAY	0100	345	1.
25	AUG	0100	70	7.	25	NOV	0100	162	0.	25	FEB	0100	254	2.	28	MAY	0100	346	2.
26	AUG	0100	71	4.	26	NOV	0100	163	1.	26	FEB	0100	255	1.	29	MAY	0100	347	1.
27	AUG	0100	72	2.	27	NOV	0100	164	4.	27	FEB	0100	256	1.	30	MAY	0100	348	0.
28	AUG	0100	73	1.	28	NOV	0100	165	3.	28	FEB	0100	257	1.	31	MAY	0100	349	0.
29	AUG	0100	74	0.	29	NOV	0100	166	3.	1	MAR	0100	258	13.	1	JUN	0100	350	3.
30	AUG	0100	75	0.	30	NOV	0100	167	2.	2	MAR	0100	259	25.	2	JUN	0100	351	13.
31	AUG	0100	76	0.	1	DEC	0100	168	0.	3	MAR	0100	260	14.	3	JUN	0100	352	15.
1	SEP	0100	77	0.	2	DEC	0100	169	2.	4	MAR	0100	261	1.	4	JUN	0100	353	9.
2	SEP	0100	78	0.	3	DEC	0100	170	3.	5	MAR	0100	262	0.	5	JUN	0100	354	5.
3	SEP	0100	79	0.	4	DEC	0100	171	3.	6	MAR	0100	263	0.	6	JUN	0100	355	3.
4	SEP	0100	80	0.	5	DEC	0100	172	3.	7	MAR	0100	264	3.	7	JUN	0100	356	4.
5	SEP	0100	81	0.	6	DEC	0100	173	1.	8	MAR	0100	265	6.	8	JUN	0100	357	6.
6	SEP	0100	82	0.	7	DEC	0100	174	0.	9	MAR	0100	266	4.	9	JUN	0100	358	3.
7	SEP	0100	83	0.	8	DEC	0100	175	0.	10	MAR	0100	267	10.	10	JUN	0100	359	4.
8	SEP	0100	84	2.	9	DEC	0100	176	0.	11	MAR	0100	268	15.	11	JUN	0100	360	8.
9	SEP	0100	85	3.	10	DEC	0100	177	0.	12	MAR	0100	269	6.	12	JUN	0100	361	5.
10	SEP	0100	86	2.	11	DEC	0100	178	0.	13	MAR	0100	270	0.	13	JUN	0100	362	1.
11	SEP	0100	87	1.	12	DEC	0100	179	0.	14	MAR	0100	271	1.	14	JUN	0100	363	1.
12	SEP	0100	88	0.	13	DEC	0100	180	0.	15	MAR	0100	272	8.	15	JUN	0100	364	0.
13	SEP	0100	89	0.	14	DEC	0100	181	0.	16	MAR	0100	273	12.	16	JUN	0100	365	0.
14	SEP	0100	90	2.	15	DEC	0100	182	0.	17	MAR	0100	274	5.	17	JUN	0100	366	0.
15	SEP	0100	91	3.	16	DEC	0100	183	0.	18	MAR	0100	275	0.					
16	SEP	0100	92	1.	17	DEC	0100	184	3.	19	MAR	0100	276	1.					

Alt2.out

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PEAK FLOW     TIME                               MAXIMUM AVERAGE FLOW
                                         10-DAY      30-DAY      90-DAY    365.0-DAY
  (CFS)       (HR)
                           (CFS)
    25.    6192.00                            9.          6.          5.           3.
                         (INCHES)        4.930       9.361      23.450       60.645
                          (AC-FT)         189.        368.        875.        2264.

                     CUMULATIVE AREA =     0.70 SQ MI

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

           PLAN  2 INPUT DATA FOR STATION     SUB2 ARE SAME AS FOR PLAN  1

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

            **************
            *            *
  23 KK     *    COMBI   *
            *            *
            **************

  25 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL          0.  HYDROGRAPH PLOT SCALE

  26 HC          HYDROGRAPH COMBINATION
                      ICOMP          2  NUMBER OF HYDROGRAPHS TO COMBINE

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                                          HYDROGRAPH AT STATION    COMBI
                                            SUM OF  2 HYDROGRAPHS
                                            PLAN 1,   RATIO =  1.00

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DA MON HRMN	ORD	FLOW	*	DA MON HRMN	ORD	FLOW	*	DA MON HRMN	ORD	FLOW	*	DA MON HRMN	ORD	FLOW
17 JUN 0100	1	8.	*	17 SEP 0100	93	0.	*	18 DEC 0100	185	15.	*	20 MAR 0100	277	14.
18 JUN 0100	2	7.	*	18 SEP 0100	94	3.	*	19 DEC 0100	186	8.	*	21 MAR 0100	278	9.
19 JUN 0100	3	8.	*	19 SEP 0100	95	5.	*	20 DEC 0100	187	2.	*	22 MAR 0100	279	3.
20 JUN 0100	4	10.	*	20 SEP 0100	96	2.	*	21 DEC 0100	188	3.	*	23 MAR 0100	280	2.
21 JUN 0100	5	7.	*	21 SEP 0100	97	5.	*	22 DEC 0100	189	3.	*	24 MAR 0100	281	2.
22 JUN 0100	6	4.	*	22 SEP 0100	98	8.	*	23 DEC 0100	190	2.	*	25 MAR 0100	282	2.
23 JUN 0100	7	3.	*	23 SEP 0100	99	4.	*	24 DEC 0100	191	13.	*	26 MAR 0100	283	1.
24 JUN 0100	8	3.	*	24 SEP 0100	100	3.	*	25 DEC 0100	192	25.	*	27 MAR 0100	284	19.
25 JUN 0100	9	2.	*	25 SEP 0100	101	6.	*	26 DEC 0100	193	13.	*	28 MAR 0100	285	36.
26 JUN 0100	10	2.	*	26 SEP 0100	102	7.	*	27 DEC 0100	194	2.	*	29 MAR 0100	286	19.
27 JUN 0100	11	1.	*	27 SEP 0100	103	8.	*	28 DEC 0100	195	2.	*	30 MAR 0100	287	4.
28 JUN 0100	12	1.	*	28 SEP 0100	104	5.	*	29 DEC 0100	196	3.	*	31 MAR 0100	288	46.
29 JUN 0100	13	3.	*	29 SEP 0100	105	2.	*	30 DEC 0100	197	3.	*	1 APR 0100	289	86.
30 JUN 0100	14	4.	*	30 SEP 0100	106	1.	*	31 DEC 0100	198	2.	*	2 APR 0100	290	46.
1 JUL 0100	15	5.	*	1 OCT 0100	107	2.	*	1 JAN 0100	199	1.	*	3 APR 0100	291	9.
2 JUL 0100	16	8.	*	2 OCT 0100	108	1.	*	2 JAN 0100	200	1.	*	4 APR 0100	292	7.
3 JUL 0100	17	8.	*	3 OCT 0100	109	1.	*	3 JAN 0100	201	1.	*	5 APR 0100	293	12.
4 JUL 0100	18	3.	*	4 OCT 0100	110	1.	*	4 JAN 0100	202	23.	*	6 APR 0100	294	25.
5 JUL 0100	19	1.	*	5 OCT 0100	111	1.	*	5 JAN 0100	203	47.	*	7 APR 0100	295	20.
6 JUL 0100	20	2.	*	6 OCT 0100	112	0.	*	6 JAN 0100	204	26.	*	8 APR 0100	296	6.
7 JUL 0100	21	2.	*	7 OCT 0100	113	0.	*	7 JAN 0100	205	5.	*	9 APR 0100	297	15.
8 JUL 0100	22	1.	*	8 OCT 0100	114	1.	*	8 JAN 0100	206	3.	*	10 APR 0100	298	28.
9 JUL 0100	23	0.	*	9 OCT 0100	115	1.	*	9 JAN 0100	207	5.	*	11 APR 0100	299	25.
10 JUL 0100	24	4.	*	10 OCT 0100	116	1.	*	10 JAN 0100	208	4.	*	12 APR 0100	300	21.
11 JUL 0100	25	8.	*	11 OCT 0100	117	0.	*	11 JAN 0100	209	19.	*	13 APR 0100	301	12.
12 JUL 0100	26	5.	*	12 OCT 0100	118	0.	*	12 JAN 0100	210	27.	*	14 APR 0100	302	4.
13 JUL 0100	27	1.	*	13 OCT 0100	119	0.	*	13 JAN 0100	211	20.	*	15 APR 0100	303	25.
14 JUL 0100	28	1.	*	14 OCT 0100	120	0.	*	14 JAN 0100	212	17.	*	16 APR 0100	304	46.
15 JUL 0100	29	1.	*	15 OCT 0100	121	0.	*	15 JAN 0100	213	9.	*	17 APR 0100	305	29.
16 JUL 0100	30	2.	*	16 OCT 0100	122	0.	*	16 JAN 0100	214	13.	*	18 APR 0100	306	42.
17 JUL 0100	31	4.	*	17 OCT 0100	123	0.	*	17 JAN 0100	215	24.	*	19 APR 0100	307	78.
18 JUL 0100	32	2.	*	18 OCT 0100	124	0.	*	18 JAN 0100	216	13.	*	20 APR 0100	308	45.
19 JUL 0100	33	3.	*	19 OCT 0100	125	0.	*	19 JAN 0100	217	26.	*	21 APR 0100	309	10.
20 JUL 0100	34	24.	*	20 OCT 0100	126	0.	*	20 JAN 0100	218	49.	*	22 APR 0100	310	8.
21 JUL 0100	35	41.	*	21 OCT 0100	127	0.	*	21 JAN 0100	219	43.	*	23 APR 0100	311	7.
22 JUL 0100	36	28.	*	22 OCT 0100	128	0.	*	22 JAN 0100	220	33.	*	24 APR 0100	312	5.
23 JUL 0100	37	12.	*	23 OCT 0100	129	0.	*	23 JAN 0100	221	18.	*	25 APR 0100	313	4.
24 JUL 0100	38	11.	*	24 OCT 0100	130	0.	*	24 JAN 0100	222	6.	*	26 APR 0100	314	14.
25 JUL 0100	39	9.	*	25 OCT 0100	131	0.	*	25 JAN 0100	223	5.	*	27 APR 0100	315	22.
26 JUL 0100	40	8.	*	26 OCT 0100	132	0.	*	26 JAN 0100	224	3.	*	28 APR 0100	316	63.
27 JUL 0100	41	11.	*	27 OCT 0100	133	2.	*	27 JAN 0100	225	7.	*	29 APR 0100	317	110.
28 JUL 0100	42	8.	*	28 OCT 0100	134	3.	*	28 JAN 0100	226	11.	*	30 APR 0100	318	64.
29 JUL 0100	43	4.	*	29 OCT 0100	135	2.	*	29 JAN 0100	227	5.	*	1 MAY 0100	319	12.
30 JUL 0100	44	3.	*	30 OCT 0100	136	0.	*	30 JAN 0100	228	1.	*	2 MAY 0100	320	10.
31 JUL 0100	45	15.	*	31 OCT 0100	137	3.	*	31 JAN 0100	229	1.	*	3 MAY 0100	321	16.
1 AUG 0100	46	12.	*	1 NOV 0100	138	11.	*	1 FEB 0100	230	2.	*	4 MAY 0100	322	47.
2 AUG 0100	47	7.	*	2 NOV 0100	139	13.	*	2 FEB 0100	231	3.	*	5 MAY 0100	323	52.
3 AUG 0100	48	5.	*	3 NOV 0100	140	7.	*	3 FEB 0100	232	1.	*	6 MAY 0100	324	38.
4 AUG 0100	49	4.	*	4 NOV 0100	141	2.	*	4 FEB 0100	233	2.	*	7 MAY 0100	325	40.
5 AUG 0100	50	7.	*	5 NOV 0100	142	2.	*	5 FEB 0100	234	11.	*	8 MAY 0100	326	24.
6 AUG 0100	51	10.	*	6 NOV 0100	143	1.	*	6 FEB 0100	235	14.	*	9 MAY 0100	327	8.
7 AUG 0100	52	8.	*	7 NOV 0100	144	1.	*	7 FEB 0100	236	5.	*	10 MAY 0100	328	8.

8	AUG	0100	53	5.	*	8	NOV	0100	145	1.	*	8	FEB	0100	237	2.	*	11	MAY	0100	329	8.
9	AUG	0100	54	4.	*	9	NOV	0100	146	2.	*	9	FEB	0100	238	1.	*	12	MAY	0100	330	7.
10	AUG	0100	55	2.	*	10	NOV	0100	147	4.	*	10	FEB	0100	239	1.	*	13	MAY	0100	331	5.
11	AUG	0100	56	1.	*	11	NOV	0100	148	2.	*	11	FEB	0100	240	1.	*	14	MAY	0100	332	3.
12	AUG	0100	57	1.	*	12	NOV	0100	149	1.	*	12	FEB	0100	241	0.	*	15	MAY	0100	333	2.
13	AUG	0100	58	1.	*	13	NOV	0100	150	3.	*	13	FEB	0100	242	0.	*	16	MAY	0100	334	1.
14	AUG	0100	59	1.	*	14	NOV	0100	151	8.	*	14	FEB	0100	243	10.	*	17	MAY	0100	335	1.
15	AUG	0100	60	1.	*	15	NOV	0100	152	13.	*	15	FEB	0100	244	53.	*	18	MAY	0100	336	0.
16	AUG	0100	61	13.	*	16	NOV	0100	153	10.	*	16	FEB	0100	245	76.	*	19	MAY	0100	337	11.
17	AUG	0100	62	20.	*	17	NOV	0100	154	13.	*	17	FEB	0100	246	38.	*	20	MAY	0100	338	8.
18	AUG	0100	63	19.	*	18	NOV	0100	155	17.	*	18	FEB	0100	247	7.	*	21	MAY	0100	339	6.
19	AUG	0100	64	5.	*	19	NOV	0100	156	16.	*	19	FEB	0100	248	5.	*	22	MAY	0100	340	22.
20	AUG	0100	65	4.	*	20	NOV	0100	157	20.	*	20	FEB	0100	249	4.	*	23	MAY	0100	341	33.
21	AUG	0100	66	3.	*	21	NOV	0100	158	14.	*	21	FEB	0100	250	3.	*	24	MAY	0100	342	18.
22	AUG	0100	67	3.	*	22	NOV	0100	159	7.	*	22	FEB	0100	251	5.	*	25	MAY	0100	343	8.
23	AUG	0100	68	2.	*	23	NOV	0100	160	6.	*	23	FEB	0100	252	8.	*	26	MAY	0100	344	7.
24	AUG	0100	69	5.	*	24	NOV	0100	161	5.	*	24	FEB	0100	253	13.	*	27	MAY	0100	345	6.
25	AUG	0100	70	9.	*	25	NOV	0100	162	4.	*	25	FEB	0100	254	9.	*	28	MAY	0100	346	6.
26	AUG	0100	71	7.	*	26	NOV	0100	163	4.	*	26	FEB	0100	255	2.	*	29	MAY	0100	347	4.
27	AUG	0100	72	4.	*	27	NOV	0100	164	7.	*	27	FEB	0100	256	3.	*	30	MAY	0100	348	3.
28	AUG	0100	73	3.	*	28	NOV	0100	165	22.	*	28	FEB	0100	257	2.	*	31	MAY	0100	349	2.
29	AUG	0100	74	1.	*	29	NOV	0100	166	23.	*	1	MAR	0100	258	63.	*	1	JUN	0100	350	5.
30	AUG	0100	75	1.	*	30	NOV	0100	167	9.	*	2	MAR	0100	259	138.	*	2	JUN	0100	351	32.
31	AUG	0100	76	1.	*	1	DEC	0100	168	5.	*	3	MAR	0100	260	83.	*	3	JUN	0100	352	57.
1	SEP	0100	77	1.	*	2	DEC	0100	169	6.	*	4	MAR	0100	261	15.	*	4	JUN	0100	353	33.
2	SEP	0100	78	1.	*	3	DEC	0100	170	7.	*	5	MAR	0100	262	9.	*	5	JUN	0100	354	20.
3	SEP	0100	79	1.	*	4	DEC	0100	171	7.	*	6	MAR	0100	263	7.	*	6	JUN	0100	355	14.
4	SEP	0100	80	0.	*	5	DEC	0100	172	6.	*	7	MAR	0100	264	20.	*	7	JUN	0100	356	16.
5	SEP	0100	81	0.	*	6	DEC	0100	173	4.	*	8	MAR	0100	265	31.	*	8	JUN	0100	357	21.
6	SEP	0100	82	0.	*	7	DEC	0100	174	2.	*	9	MAR	0100	266	21.	*	9	JUN	0100	358	13.
7	SEP	0100	83	0.	*	8	DEC	0100	175	1.	*	10	MAR	0100	267	53.	*	10	JUN	0100	359	16.
8	SEP	0100	84	2.	*	9	DEC	0100	176	1.	*	11	MAR	0100	268	84.	*	11	JUN	0100	360	24.
9	SEP	0100	85	3.	*	10	DEC	0100	177	1.	*	12	MAR	0100	269	42.	*	12	JUN	0100	361	19.
10	SEP	0100	86	2.	*	11	DEC	0100	178	1.	*	13	MAR	0100	270	9.	*	13	JUN	0100	362	8.
11	SEP	0100	87	1.	*	12	DEC	0100	179	1.	*	14	MAR	0100	271	9.	*	14	JUN	0100	363	7.
12	SEP	0100	88	0.	*	13	DEC	0100	180	0.	*	15	MAR	0100	272	42.	*	15	JUN	0100	364	5.
13	SEP	0100	89	0.	*	14	DEC	0100	181	0.	*	16	MAR	0100	273	67.	*	16	JUN	0100	365	4.
14	SEP	0100	90	2.	*	15	DEC	0100	182	0.	*	17	MAR	0100	274	34.	*	17	JUN	0100	366	3.
15	SEP	0100	91	3.	*	16	DEC	0100	183	0.	*	18	MAR	0100	275	8.	*					
16	SEP	0100	92	1.	*	17	DEC	0100	184	0.	*	19	MAR	0100	276	10.	*					

PEAK FLOW TIME MAXIMUM AVERAGE FLOW

*	(CFS)	(HR)		10-DAY	30-DAY	90-DAY	360.0-DAY
			(CFS)				
	136.	4132.00		45.	30.	26.	12.
			(INCHES)	3.766	7.686	19.373	35.588
			(AC-FT)	888.	1812.	4567.	8389.

CUMULATIVE AREA = 4.42 SQ MI

HYDROGRAPH AT STATION COMB1
SUM OF 2 HYDROGRAPHS
PLAN 2, RATIO = 1.00

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
17	JUN	0100	1	9.	*	17	SEP	0100	93	0.	*	10	DEC	0100	185	15.	*	20	MAR	0100	277	14.
18	JUN	0100	2	7.	*	18	SEP	0100	94	3.	*	19	DEC	0100	186	8.	*	21	MAR	0100	278	8.
19	JUN	0100	3	8.	*	19	SEP	0100	95	5.	*	20	DEC	0100	187	2.	*	22	MAR	0100	279	3.
20	JUN	0100	4	10.	*	20	SEP	0100	96	2.	*	21	DEC	0100	188	3.	*	23	MAR	0100	280	2.
21	JUN	0100	5	7.	*	21	SEP	0100	97	5.	*	22	DEC	0100	189	3.	*	24	MAR	0100	281	2.
22	JUN	0100	6	6.	*	22	SEP	0100	98	8.	*	23	DEC	0100	190	2.	*	25	MAR	0100	282	2.
23	JUN	0100	7	3.	*	23	SEP	0100	99	6.	*	24	DEC	0100	191	11.	*	26	MAR	0100	283	1.
24	JUN	0100	8	3.	*	24	SEP	0100	100	3.	*	25	DEC	0100	192	21.	*	27	MAR	0100	284	19.
25	JUN	0100	9	2.	*	25	SEP	0100	101	6.	*	26	DEC	0100	193	13.	*	28	MAR	0100	285	36.
26	JUN	0100	10	2.	*	26	SEP	0100	102	7.	*	27	DEC	0100	194	7.	*	29	MAR	0100	286	19.
27	JUN	0100	11	1.	*	27	SEP	0100	103	8.	*	28	DEC	0100	195	2.	*	30	MAR	0100	287	4.
28	JUN	0100	12	1.	*	28	SEP	0100	104	5.	*	29	DEC	0100	196	3.	*	31	MAR	0100	288	46.
29	JUN	0100	13	3.	*	29	SEP	0100	105	2.	*	30	DEC	0100	197	3.	*	1	APR	0100	289	38.
30	JUN	0100	14	4.	*	30	SEP	0100	106	1.	*	31	DEC	0100	198	2.	*	2	APR	0100	290	46.
1	JUL	0100	15	5.	*	1	OCT	0100	107	2.	*	1	JAN	0100	199	1.	*	3	APR	0100	291	9.
2	JUL	0100	16	8.	*	2	OCT	0100	108	1.	*	2	JAN	0100	200	1.	*	4	APR	0100	292	7.
3	JUL	0100	17	8.	*	3	OCT	0100	109	1.	*	3	JAN	0100	201	1.	*	5	APR	0100	293	12.
4	JUL	0100	18	3.	*	4	OCT	0100	110	1.	*	4	JAN	0100	202	23.	*	6	APR	0100	294	25.
5	JUL	0100	19	1.	*	5	OCT	0100	111	1.	*	5	JAN	0100	203	47.	*	7	APR	0100	295	30.
6	JUL	0100	20	2.	*	6	OCT	0100	112	0.	*	6	JAN	0100	204	28.	*	8	APR	0100	296	6.
7	JUL	0100	21	2.	*	7	OCT	0100	113	0.	*	7	JAN	0100	205	5.	*	9	APR	0100	297	15.
8	JUL	0100	22	1.	*	8	OCT	0100	114	1.	*	8	JAN	0100	206	5.	*	10	APR	0100	298	28.
9	JUL	0100	23	0.	*	9	OCT	0100	115	1.	*	9	JAN	0100	207	5.	*	11	APR	0100	299	25.
10	JUL	0100	24	4.	*	10	OCT	0100	116	1.	*	10	JAN	0100	208	6.	*	12	APR	0100	300	21.
11	JUL	0100	25	8.	*	11	OCT	0100	117	0.	*	11	JAN	0100	209	19.	*	13	APR	0100	301	12.
12	JUL	0100	26	5.	*	12	OCT	0100	118	0.	*	12	JAN	0100	210	27.	*	14	APR	0100	302	4.
13	JUL	0100	27	1.	*	13	OCT	0100	119	0.	*	13	JAN	0100	211	20.	*	15	APR	0100	303	25.
14	JUL	0100	28	1.	*	14	OCT	0100	120	0.	*	14	JAN	0100	212	17.	*	16	APR	0100	304	48.
15	JUL	0100	29	1.	*	15	OCT	0100	121	0.	*	15	JAN	0100	213	9.	*	17	APR	0100	305	29.
16	JUL	0100	30	2.	*	16	OCT	0100	122	0.	*	16	JAN	0100	214	13.	*	18	APR	0100	306	42.
17	JUL	0100	31	4.	*	17	OCT	0100	123	0.	*	17	JAN	0100	215	24.	*	19	APR	0100	307	78.
18	JUL	0100	32	2.	*	18	OCT	0100	124	0.	*	18	JAN	0100	216	15.	*	20	APR	0100	308	45.
19	JUL	0100	33	3.	*	19	OCT	0100	125	0.	*	19	JAN	0100	217	26.	*	21	APR	0100	309	10.
20	JUL	0100	34	24.	*	20	OCT	0100	126	0.	*	20	JAN	0100	218	49.	*	22	APR	0100	310	9.
21	JUL	0100	35	41.	*	21	OCT	0100	127	0.	*	21	JAN	0100	219	47.	*	23	APR	0100	311	7.

22	JUL	0100	36	28.	*	22	OCT	0100	128	0.	*	22	JAN	0100	220	31.	*	24	APR	0100	312	5.
23	JUL	0100	37	12.	*	23	OCT	0100	129	0.	*	23	JAN	0100	221	18.	*	25	APR	0100	313	4.
24	JUL	0100	38	11.	*	24	OCT	0100	130	0.	*	24	JAN	0100	222	8.	*	26	APR	0100	314	14.
25	JUL	0100	39	9.	*	25	OCT	0100	131	0.	*	25	JAN	0100	223	5.	*	27	APR	0100	315	22.
26	JUL	0100	40	8.	*	26	OCT	0100	132	0.	*	26	JAN	0100	224	3.	*	28	APR	0100	316	63.
27	JUL	0100	41	11.	*	27	OCT	0100	133	2.	*	27	JAN	0100	225	7.	*	29	APR	0100	317	110.
28	JUL	0100	42	8.	*	28	OCT	0100	134	3.	*	28	JAN	0100	226	11.	*	30	APR	0100	318	64.
29	JUL	0100	43	6.	*	29	OCT	0100	135	2.	*	29	JAN	0100	227	5.	*	1	MAY	0100	319	12.
30	JUL	0100	44	9.	*	30	OCT	0100	136	0.	*	30	JAN	0100	228	1.	*	2	MAY	0100	320	10.
31	JUL	0100	45	15.	*	31	OCT	0100	137	3.	*	31	JAN	0100	229	1.	*	3	MAY	0100	321	16.
1	AUG	0100	46	12.	*	1	NOV	0100	138	11.	*	1	FEB	0100	230	2.	*	4	MAY	0100	322	47.
2	AUG	0100	47	7.	*	2	NOV	0100	139	13.	*	2	FEB	0100	231	3.	*	5	MAY	0100	323	52.
3	AUG	0100	48	5.	*	3	NOV	0100	140	7.	*	3	FEB	0100	232	1.	*	6	MAY	0100	324	38.
4	AUG	0100	49	4.	*	4	NOV	0100	141	2.	*	4	FEB	0100	233	2.	*	7	MAY	0100	325	40.
5	AUG	0100	50	7.	*	5	NOV	0100	142	2.	*	5	FEB	0100	234	11.	*	8	MAY	0100	326	24.
6	AUG	0100	51	10.	*	6	NOV	0100	143	1.	*	6	FEB	0100	235	14.	*	9	MAY	0100	327	9.
7	AUG	0100	52	8.	*	7	NOV	0100	144	1.	*	7	FEB	0100	236	5.	*	10	MAY	0100	328	8.
8	AUG	0100	53	5.	*	8	NOV	0100	145	1.	*	8	FEB	0100	237	2.	*	11	MAY	0100	329	8.
9	AUG	0100	54	4.	*	9	NOV	0100	146	2.	*	9	FEB	0100	238	1.	*	12	MAY	0100	330	7.
10	AUG	0100	55	2.	*	10	NOV	0100	147	4.	*	10	FEB	0100	239	1.	*	13	MAY	0100	331	5.
11	AUG	0100	56	1.	*	11	NOV	0100	148	2.	*	11	FEB	0100	240	1.	*	14	MAY	0100	332	3.
12	AUG	0100	57	1.	*	12	NOV	0100	149	1.	*	12	FEB	0100	241	0.	*	15	MAY	0100	333	2.
13	AUG	0100	58	1.	*	13	NOV	0100	150	2.	*	13	FEB	0100	242	0.	*	16	MAY	0100	334	3.
14	AUG	0100	59	1.	*	14	NOV	0100	151	8.	*	14	FEB	0100	243	10.	*	17	MAY	0100	335	6.
15	AUG	0100	60	1.	*	15	NOV	0100	152	13.	*	15	FEB	0100	244	53.	*	18	MAY	0100	336	8.
16	AUG	0100	61	19.	*	16	NOV	0100	153	10.	*	16	FEB	0100	245	76.	*	19	MAY	0100	337	11.
17	AUG	0100	62	28.	*	17	NOV	0100	154	13.	*	17	FEB	0100	246	36.	*	20	MAY	0100	338	8.
18	AUG	0100	63	19.	*	18	NOV	0100	155	17.	*	18	FEB	0100	247	7.	*	21	MAY	0100	339	6.
19	AUG	0100	64	5.	*	19	NOV	0100	156	16.	*	19	FEB	0100	248	5.	*	22	MAY	0100	340	22.
20	AUG	0100	65	4.	*	20	NOV	0100	157	20.	*	20	FEB	0100	249	4.	*	23	MAY	0100	341	33.
21	AUG	0100	66	3.	*	21	NOV	0100	158	14.	*	21	FEB	0100	250	5.	*	24	MAY	0100	342	19.
22	AUG	0100	67	3.	*	22	NOV	0100	159	7.	*	22	FEB	0100	251	5.	*	25	MAY	0100	343	9.
23	AUG	0100	68	2.	*	23	NOV	0100	160	6.	*	23	FEB	0100	252	8.	*	26	MAY	0100	344	7.
24	AUG	0100	69	5.	*	24	NOV	0100	161	5.	*	24	FEB	0100	253	13.	*	27	MAY	0100	345	6.
25	AUG	0100	70	9.	*	25	NOV	0100	162	4.	*	25	FEB	0100	254	8.	*	28	MAY	0100	346	8.
26	AUG	0100	71	7.	*	26	NOV	0100	163	4.	*	26	FEB	0100	255	3.	*	29	MAY	0100	347	4.
27	AUG	0100	72	4.	*	27	NOV	0100	164	7.	*	27	FEB	0100	256	3.	*	30	MAY	0100	348	3.
28	AUG	0100	73	3.	*	28	NOV	0100	165	22.	*	28	FEB	0100	257	2.	*	31	MAY	0100	349	2.
29	AUG	0100	74	1.	*	29	NOV	0100	166	23.	*	1	MAR	0100	258	63.	*	1	JUN	0100	350	5.
30	AUG	0100	75	1.	*	30	NOV	0100	167	9.	*	2	MAR	0100	259	136.	*	2	JUN	0100	351	32.
31	AUG	0100	76	1.	*	1	DEC	0100	168	5.	*	3	MAR	0100	260	93.	*	3	JUN	0100	352	52.
1	SEP	0100	77	1.	*	2	DEC	0100	169	6.	*	4	MAR	0100	261	15.	*	4	JUN	0100	353	33.
2	SEP	0100	78	1.	*	3	DEC	0100	170	7.	*	5	MAR	0100	262	9.	*	5	JUN	0100	354	20.
3	SEP	0100	79	1.	*	4	DEC	0100	171	7.	*	6	MAR	0100	263	7.	*	6	JUN	0100	355	14.
4	SEP	0100	80	2.	*	5	DEC	0100	172	6.	*	7	MAR	0100	264	20.	*	7	JUN	0100	356	16.
5	SEP	0100	81	6.	*	6	DEC	0100	173	4.	*	8	MAR	0100	265	31.	*	8	JUN	0100	357	21.
6	SEP	0100	82	9.	*	7	DEC	0100	174	2.	*	9	MAR	0100	266	21.	*	9	JUN	0100	358	19.
7	SEP	0100	83	6.	*	8	DEC	0100	175	1.	*	10	MAR	0100	267	53.	*	10	JUN	0100	359	18.
8	SEP	0100	84	3.	*	9	DEC	0100	176	1.	*	11	MAR	0100	268	84.	*	11	JUN	0100	360	26.
9	SEP	0100	85	3.	*	10	DEC	0100	177	1.	*	12	MAR	0100	269	42.	*	12	JUN	0100	361	19.
10	SEP	0100	86	3.	*	11	DEC	0100	178	1.	*	13	MAR	0100	270	9.	*	13	JUN	0100	362	9.
11	SEP	0100	87	1.	*	12	DEC	0100	179	1.	*	14	MAR	0100	271	9.	*	14	JUN	0100	363	7.
12	SEP	0100	88	0.	*	13	DEC	0100	180	0.	*	15	MAR	0100	272	42.	*	15	JUN	0100	364	5.
13	SEP	0100	89	0.	*	14	DEC	0100	181	0.	*	16	MAR	0100	273	67.	*	16	JUN	0100	365	4.
14	SEP	0100	90	2.	*	15	DEC	0100	182	0.	*	17	MAR	0100	274	36.	*	17	JUN	0100	366	3.
15	SEP	0100	91	3.	*	16	DEC	0100	183	0.	*	18	MAR	0100	275	8.	*					
16	SEP	0100	92	1.	*	17	DEC	0100	184	8.	*	19	MAR	0100	276	10.	*					

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		10-DAY	30-DAY	90-DAY	365.0-DAY
(CFS)	(HR)				
		(CFS)			
* 136.	6192.00	45.	30.	25.	12.
		(INCHES) 3.766	7.686	19.373	35.568
		(AC-FT) 888.	1812.	4567.	8389.

CUMULATIVE AREA = 4.42 SQ MI

27 KK DAM

28 KO OUTPUT CONTROL VARIABLES
IPRNT 2 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE

HYDROGRAPH ROUTING DATA

29 KR NO ROUTING

HYDROGRAPH AT STATION DAM
PLAN 1, RATIO = 1.00

Alt2.out

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
17	JUN	0100	1	9.	17	SEP	0100	93	3.	18	DEC	0100	185	15.	20	MAR	0100	277	14.
18	JUN	0100	2	7.	18	SEP	0100	94	3.	19	DEC	0100	186	8.	21	MAR	0100	278	5.
19	JUN	0100	3	8.	19	SEP	0100	95	5.	20	DEC	0100	187	2.	22	MAR	0100	279	3.
20	JUN	0100	4	10.	20	SEP	0100	96	2.	21	DEC	0100	188	3.	23	MAR	0100	280	2.
21	JUN	0100	5	7.	21	SEP	0100	97	5.	22	DEC	0100	189	3.	24	MAR	0100	281	2.
22	JUN	0100	6	4.	22	SEP	0100	98	8.	23	DEC	0100	190	2.	25	MAR	0100	282	2.
23	JUN	0100	7	3.	23	SEP	0100	99	4.	24	DEC	0100	191	13.	26	MAR	0100	283	1.
24	JUN	0100	8	3.	24	SEP	0100	100	3.	25	DEC	0100	192	25.	27	MAR	0100	284	19.
25	JUN	0100	9	2.	25	SEP	0100	101	6.	26	DEC	0100	193	13.	28	MAR	0100	285	36.
26	JUN	0100	10	2.	26	SEP	0100	102	7.	27	DEC	0100	194	2.	29	MAR	0100	286	19.
27	JUN	0100	11	1.	27	SEP	0100	103	8.	28	DEC	0100	195	2.	30	MAR	0100	287	4.
28	JUN	0100	12	1.	28	SEP	0100	104	5.	29	DEC	0100	196	1.	31	MAR	0100	288	46.
29	JUN	0100	13	3.	29	SEP	0100	105	2.	30	DEC	0100	197	1.	1	APR	0100	289	86.
30	JUN	0100	14	4.	30	SEP	0100	106	1.	31	DEC	0100	198	2.	2	APR	0100	290	46.
1	JUL	0100	15	5.	1	OCT	0100	107	2.	1	JAN	0100	199	1.	3	APR	0100	291	8.
2	JUL	0100	16	8.	2	OCT	0100	108	1.	2	JAN	0100	200	1.	4	APR	0100	292	7.
3	JUL	0100	17	8.	3	OCT	0100	109	1.	3	JAN	0100	201	1.	5	APR	0100	293	12.
4	JUL	0100	18	3.	4	OCT	0100	110	1.	4	JAN	0100	202	23.	6	APR	0100	294	25.
5	JUL	0100	19	1.	5	OCT	0100	111	1.	5	JAN	0100	203	47.	7	APR	0100	295	20.
6	JUL	0100	20	2.	6	OCT	0100	112	0.	6	JAN	0100	204	28.	8	APR	0100	296	6.
7	JUL	0100	21	2.	7	OCT	0100	113	0.	7	JAN	0100	205	5.	9	APR	0100	297	15.
8	JUL	0100	22	1.	8	OCT	0100	114	1.	8	JAN	0100	206	5.	10	APR	0100	298	28.
9	JUL	0100	23	0.	9	OCT	0100	115	1.	9	JAN	0100	207	5.	11	APR	0100	299	25.
10	JUL	0100	24	4.	10	OCT	0100	116	1.	10	JAN	0100	208	8.	12	APR	0100	300	21.
11	JUL	0100	25	6.	11	OCT	0100	117	0.	11	JAN	0100	209	19.	13	APR	0100	301	12.
12	JUL	0100	26	5.	12	OCT	0100	118	0.	12	JAN	0100	210	27.	14	APR	0100	302	4.
13	JUL	0100	27	1.	13	OCT	0100	119	0.	13	JAN	0100	211	20.	15	APR	0100	303	25.
14	JUL	0100	28	1.	14	OCT	0100	120	0.	14	JAN	0100	212	17.	16	APR	0100	304	46.
15	JUL	0100	29	1.	15	OCT	0100	121	0.	15	JAN	0100	213	9.	17	APR	0100	305	29.
16	JUL	0100	30	3.	16	OCT	0100	122	0.	16	JAN	0100	214	13.	18	APR	0100	306	42.
17	JUL	0100	31	4.	17	OCT	0100	123	0.	17	JAN	0100	215	24.	19	APR	0100	307	76.
18	JUL	0100	32	2.	18	OCT	0100	124	0.	18	JAN	0100	216	13.	20	APR	0100	308	45.
19	JUL	0100	33	3.	19	OCT	0100	125	0.	19	JAN	0100	217	26.	21	APR	0100	309	10.
20	JUL	0100	34	24.	20	OCT	0100	126	0.	20	JAN	0100	218	49.	22	APR	0100	310	8.
21	JUL	0100	35	41.	21	OCT	0100	127	0.	21	JAN	0100	219	43.	23	APR	0100	311	7.
22	JUL	0100	36	28.	22	OCT	0100	128	0.	22	JAN	0100	220	33.	24	APR	0100	312	5.
23	JUL	0100	37	12.	23	OCT	0100	129	0.	23	JAN	0100	221	18.	25	APR	0100	313	4.
24	JUL	0100	38	11.	24	OCT	0100	130	0.	24	JAN	0100	222	6.	26	APR	0100	314	14.
25	JUL	0100	39	9.	25	OCT	0100	131	0.	25	JAN	0100	223	5.	27	APR	0100	315	22.
26	JUL	0100	40	9.	26	OCT	0100	132	0.	26	JAN	0100	224	3.	28	APR	0100	316	63.
27	JUL	0100	41	11.	27	OCT	0100	133	2.	27	JAN	0100	225	7.	29	APR	0100	317	110.
28	JUL	0100	42	8.	28	OCT	0100	134	3.	28	JAN	0100	226	11.	30	APR	0100	318	64.
29	JUL	0100	43	4.	29	OCT	0100	135	2.	29	JAN	0100	227	5.	1	MAY	0100	319	12.
30	JUL	0100	44	9.	30	OCT	0100	136	0.	30	JAN	0100	228	1.	2	MAY	0100	320	10.
31	JUL	0100	45	15.	31	OCT	0100	137	3.	31	JAN	0100	229	1.	3	MAY	0100	321	14.
1	AUG	0100	46	12.	1	NOV	0100	138	11.	1	FEB	0100	230	2.	4	MAY	0100	322	47.
2	AUG	0100	47	7.	2	NOV	0100	139	13.	2	FEB	0100	231	3.	5	MAY	0100	323	52.
3	AUG	0100	48	5.	3	NOV	0100	140	7.	3	FEB	0100	232	1.	6	MAY	0100	324	38.
4	AUG	0100	49	4.	4	NOV	0100	141	2.	4	FEB	0100	233	2.	7	MAY	0100	325	40.
5	AUG	0100	50	7.	5	NOV	0100	142	2.	5	FEB	0100	234	11.	8	MAY	0100	326	24.
6	AUG	0100	51	10.	6	NOV	0100	143	1.	6	FEB	0100	235	14.	9	MAY	0100	327	9.
7	AUG	0100	52	8.	7	NOV	0100	144	1.	7	FEB	0100	236	5.	10	MAY	0100	328	8.
8	AUG	0100	53	5.	8	NOV	0100	145	1.	8	FEB	0100	237	2.	11	MAY	0100	329	8.
9	AUG	0100	54	4.	9	NOV	0100	146	2.	9	FEB	0100	238	1.	12	MAY	0100	330	7.
10	AUG	0100	55	2.	10	NOV	0100	147	4.	10	FEB	0100	239	1.	13	MAY	0100	331	5.
11	AUG	0100	56	1.	11	NOV	0100	148	2.	11	FEB	0100	240	1.	14	MAY	0100	332	3.
12	AUG	0100	57	1.	12	NOV	0100	149	1.	12	FEB	0100	241	0.	15	MAY	0100	333	2.
13	AUG	0100	58	1.	13	NOV	0100	150	2.	13	FEB	0100	242	0.	16	MAY	0100	334	3.
14	AUG	0100	59	1.	14	NOV	0100	151	6.	14	FEB	0100	243	10.	17	MAY	0100	335	4.
15	AUG	0100	60	1.	15	NOV	0100	152	13.	15	FEB	0100	244	53.	18	MAY	0100	336	8.
16	AUG	0100	61	13.	16	NOV	0100	153	10.	16	FEB	0100	245	76.	19	MAY	0100	337	11.
17	AUG	0100	62	28.	17	NOV	0100	154	13.	17	FEB	0100	246	36.	20	MAY	0100	338	8.
18	AUG	0100	63	19.	18	NOV	0100	155	17.	18	FEB	0100	247	7.	21	MAY	0100	339	6.
19	AUG	0100	64	5.	19	NOV	0100	156	16.	19	FEB	0100	248	5.	22	MAY	0100	340	22.
20	AUG	0100	65	4.	20	NOV	0100	157	20.	20	FEB	0100	249	8.	23	MAY	0100	341	33.
21	AUG	0100	66	3.	21	NOV	0100	158	14.	21	FEB	0100	250	5.	24	MAY	0100	342	19.
22	AUG	0100	67	3.	22	NOV	0100	159	7.	22	FEB	0100	251	5.	25	MAY	0100	343	9.
23	AUG	0100	68	2.	23	NOV	0100	160	6.	23	FEB	0100	252	8.	26	MAY	0100	344	7.
24	AUG	0100	69	5.	24	NOV	0100	161	5.	24	FEB	0100	253	13.	27	MAY	0100	345	6.
25	AUG	0100	70	9.	25	NOV	0100	162	4.	25	FEB	0100	254	8.	28	MAY	0100	346	6.
26	AUG	0100	71	7.	26	NOV	0100	163	4.	26	FEB	0100	255	2.	29	MAY	0100	347	4.
27	AUG	0100	72	4.	27	NOV	0100	164	7.	27	FEB	0100	256	3.	30	MAY	0100	348	3.
28	AUG	0100	73	3.	28	NOV	0100	165	22.	28	FEB	0100	257	2.	31	MAY	0100	349	2.
29	AUG	0100	74	1.	29	NOV	0100	166	23.	1	MAR	0100	258	63.	1	JUN	0100	350	5.
30	AUG	0100	75	1.	30	NOV	0100	167	9.	2	MAR	0100	259	136.	2	JUN	0100	351	22.
31	AUG	0100	76	1.	1	DEC	0100	168	5.	3	MAR	0100	260	83.	3	JUN	0100	352	52.
1	SEP	0100	77	1.	2	DEC	0100	169	6.	4	MAR	0100	261	15.	4	JUN	0100	353	33.
2	SEP	0100	78	1.	3	DEC	0100	170	7.	5	MAR	0100	262	5.	5	JUN	0100	354	20.
3	SEP	0100	79	1.	4	DEC	0100	171	7.	6	MAR	0100	263	7.	6	JUN	0100	355	14.
4	SEP	0100	80	0.	5	DEC	0100	172	6.	7	MAR	0100	264	20.	7	JUN	0100	356	16.
5	SEP	0100	81	0.	6	DEC	0100	173	4.	8	MAR	0100	265	31.	8	JUN	0100	357	21.
6	SEP	0100	82	0.	7	DEC	0100	174	2.	9	MAR	0100	266	21.	9	JUN	0100	358	13.
7	SEP	0100	83	0.	8	DEC	0100	175	1.	10	MAR	0100	267	53.	10	JUN	0100	359	16.
8	SEP	0100	84	2.	9	DEC	0100	176	1.	11	MAR	0100	268	80.	11	JUN	0100	360	26.
9	SEP	0100	85	3.	10	DEC	0100	177	1.	12	MAR	0100	269	42.	12	JUN	0100	361	19.
10	SEP	0100	86	2.	11	DEC	0100	178	1.	13	MAR	0100	270	9.	13	JUN	0100	362	8.
11	SEP	0100	87	1.	12	DEC	0100	179	1.	14	MAR	0100	271	8.	14	JUN	0100	363	7.
12	SEP	0100	88	0.	13	DEC	0100	180	0.	15	MAR	0100	272	42.	15	JUN	0100	364	5.
13	SEP	0100	89	0.	14	DEC	0100	181	0.	16	MAR	0100	273	67.	16	JUN	0100	365	4.
14	SEP	0100	90	2.	15	DEC	0100	182	0.	17	MAR	0100	274	34.	17	JUN	0100	366	3.
15	SEP	0100	91	3.	16	DEC	0100	183	0.	18	MAR	0100	275	8.					
16	SEP	0100	92	1.	17	DEC	0100	184	0.	19	MAR	0100	276	10.					

PEAK FLOW TIME MAXIMUM AVERAGE FLOW

* (CFS)	(HR)	10-DAY	30-DAY	90-DAY	365.0-DAY
	(CFS)				
136.	6192.00	45.	30.	26.	12.
	(INCHES)	3.766	7.686	18.373	35.588
	(AC-FT)	884.	1812.	4567.	8389.

CUMULATIVE AREA = 4.42 SQ MI

30 KK PLAN 2 FOR STATION DAM

** HEC-1 ERROR 1 *** INVALID CARD IDENTIFICATION CODE OR CARD OUT OF SEQUENCE
CARD NO. 36 *S 11735.0 2.16 .6 .5

HYDROGRAPH ROUTING DATA

31 RS STORAGE ROUTING
NSTPS 1 NUMBER OF SUBREACHES
ITYP ELEV TYPE OF INITIAL CONDITION
RSVRIC 1758.00 INITIAL CONDITION
X 0.00 WORKING R AND D COEFFICIENT

32 SA AREA 0.0 15.2 45.6 92.0 205.0 448.0 756.0

33 SE ELEVATION 1675.00 1680.00 1700.00 1720.00 1740.00 1760.00 1780.00

37 SL LOW-LEVEL OUTLET
ELEVL 1677.00 ELEVATION AT CENTER OF OUTLET
CAREA 0.10 CROSS-SECTIONAL AREA
COQL 0.60 COEFFICIENT
EXPL 0.50 EXPONENT OF HEAD

34 SS SPILLWAY
CREL 1760.00 SPILLWAY CREST ELEVATION
SPWID 180.00 SPILLWAY WIDTH
COQW 3.00 WEIR COEFFICIENT
EXPW 1.50 EXPONENT OF HEAD

38 WP PUMPING DATA

PUMP ON ELEVATION	PUMPING RATE	PUMP OFF ELEVATION
1699.0	6.	1698.0

ISTAD PUMP FLOW HYDROGRAPH IDENTIFICATION

35 ST TOP OF DAM
TOPEL 1770.00 ELEVATION AT TOP OF DAM
DAMWID 900.00 DAM WIDTH
COQD 3.00 WEIR COEFFICIENT
EXPD 1.50 EXPONENT OF HEAD

= (11,218 AC-FT × 43,560 $\frac{FT^2}{AC}$) (7.481 $\frac{GAL}{FT^3}$)
= 3655 MILLION GAL

...

COMPUTED STORAGE-ELEVATION DATA

STORAGE	0.00	25.00	598.21	1940.49	4836.04	11218.63	23136.08
ELEVATION	1675.00	1680.00	1700.00	1720.00	1740.00	1760.00	1780.00

COMPUTED OUTFLOW-ELEVATION DATA

(EXCLUDING FLOW OVER DAM)

OUTFLOW	0.00	0.00	0.21	0.25	0.29	0.36	0.47	0.66	1.15	4.38
ELEVATION	1675.00	1677.00	1677.19	1677.26	1677.33	1677.56	1677.94	1678.90	1682.73	1760.00
OUTFLOW	52.70	390.83	1308.57	3095.71	6042.03	10437.32	16571.38	24733.97	35214.91	48303.97
ELEVATION	1760.20	1760.80	1761.80	1763.20	1765.00	1767.20	1769.80	1772.80	1776.20	1780.00

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

(INCLUDING FLOW OVER DAM)

STORAGE	0.00	1.60	2.11	2.31	2.65	3.34	5.06	11.84	25.00	70.11
OUTFLOW	0.00	0.00	0.21	0.25	0.29	0.36	0.47	0.66	0.83	1.15
ELEVATION	1675.00	1677.00	1677.19	1677.26	1677.33	1677.56	1677.94	1678.90	1680.00	1682.73
STORAGE	598.21	1940.49	4836.04	11218.63	11308.73	11582.15	12048.69	12724.98	13634.86	14810.18
OUTFLOW	2.31	3.19	3.82	4.38	52.71	390.83	1308.56	3095.71	6042.12	10437.33
ELEVATION	1700.00	1720.00	1740.00	1760.00	1760.20	1760.80	1761.80	1763.20	1765.00	1767.20
STORAGE	16291.68	18139.65	20386.70	23136.08						
OUTFLOW	16571.34	17384.61	76898.05	121685.45						
ELEVATION	1769.80	1772.80	1776.20	1780.00						

HYDROGRAPH AT STATION DAM
PLAN 2, RATIO = 1.00

DA MON HRMN ORD	PUMP Q	OUTFLOW	STORAGE	STAGE	DA MON HRMN ORD	PUMP Q	OUTFLOW	STORAGE	STAGE

17 JUN 0100	1	6.	4.	10349.8	1758.0
18 JUN 0100	2	6.	4.	10343.9	1758.0
19 JUN 0100	3	6.	4.	10338.2	1758.0
20 JUN 0100	4	6.	4.	10335.7	1758.0
21 JUN 0100	5	6.	4.	10332.3	1758.0
22 JUN 0100	6	6.	4.	10322.6	1757.9
23 JUN 0100	7	6.	4.	10309.0	1757.9
24 JUN 0100	8	6.	4.	10294.0	1757.9
25 JUN 0100	9	6.	4.	10278.0	1757.8
26 JUN 0100	10	6.	4.	10261.0	1757.8
27 JUN 0100	11	6.	4.	10243.3	1757.7
28 JUN 0100	12	6.	4.	10225.0	1757.7
29 JUN 0100	13	6.	4.	10208.0	1757.7
30 JUN 0100	14	6.	4.	10193.7	1757.6
1 JUL 0100	15	6.	4.	10181.4	1757.6
2 JUL 0100	16	6.	4.	10172.9	1757.6
3 JUL 0100	17	6.	4.	10166.9	1757.6
4 JUL 0100	18	6.	4.	10156.4	1757.5
5 JUL 0100	19	6.	4.	10139.4	1757.5
6 JUL 0100	20	6.	4.	10121.2	1757.5
7 JUL 0100	21	6.	4.	10104.6	1757.4
8 JUL 0100	22	6.	4.	10087.5	1757.4
9 JUL 0100	23	6.	4.	10068.3	1757.3
10 JUL 0100	24	6.	4.	10052.2	1757.3
11 JUL 0100	25	6.	4.	10044.2	1757.3
12 JUL 0100	26	6.	4.	10038.8	1757.2
13 JUL 0100	27	6.	4.	10022.1	1757.2
14 JUL 0100	28	6.	4.	10003.8	1757.2
15 JUL 0100	29	6.	4.	9984.4	1757.1
16 JUL 0100	30	6.	4.	9966.8	1757.1
17 JUL 0100	31	6.	4.	9952.8	1757.0
18 JUL 0100	32	6.	4.	9936.7	1757.0
19 JUL 0100	33	6.	4.	9920.9	1757.0
20 JUL 0100	34	6.	4.	9926.8	1757.0
21 JUL 0100	35	6.	4.	9970.2	1757.1
22 JUL 0100	36	6.	4.	10017.5	1757.2
23 JUL 0100	37	6.	4.	10036.3	1757.2
24 JUL 0100	38	6.	4.	10038.6	1757.3
25 JUL 0100	39	6.	4.	10037.8	1757.2
26 JUL 0100	40	6.	4.	10035.4	1757.2
27 JUL 0100	41	6.	4.	10034.2	1757.2
28 JUL 0100	42	6.	4.	10031.9	1757.2
29 JUL 0100	43	6.	4.	10023.3	1757.2
30 JUL 0100	44	6.	4.	10015.4	1757.2
31 JUL 0100	45	6.	4.	10017.9	1757.2
1 AUG 0100	46	6.	4.	10023.6	1757.2
2 AUG 0100	47	6.	4.	10021.9	1757.2
3 AUG 0100	48	6.	4.	10013.4	1757.2
4 AUG 0100	49	6.	4.	10001.2	1757.2
5 AUG 0100	50	6.	4.	9990.8	1757.1
6 AUG 0100	51	6.	4.	9986.7	1757.1
7 AUG 0100	52	6.	4.	9984.3	1757.1
8 AUG 0100	53	6.	4.	9976.9	1757.1
9 AUG 0100	54	6.	4.	9965.1	1757.1
10 AUG 0100	55	6.	4.	9949.7	1757.0
11 AUG 0100	56	6.	4.	9932.9	1757.0
12 AUG 0100	57	6.	4.	9914.3	1756.9
13 AUG 0100	58	6.	4.	9895.7	1756.9
14 AUG 0100	59	6.	4.	9876.8	1756.9
15 AUG 0100	60	6.	4.	9857.5	1756.8
16 AUG 0100	61	6.	4.	9850.4	1756.8
17 AUG 0100	62	6.	4.	9870.3	1756.8
18 AUG 0100	63	6.	4.	9895.8	1756.9
19 AUG 0100	64	6.	4.	9898.8	1756.9
20 AUG 0100	65	6.	4.	9887.3	1756.9
21 AUG 0100	66	6.	4.	9873.9	1756.9
22 AUG 0100	67	6.	4.	9859.1	1756.8
23 AUG 0100	68	6.	4.	9843.1	1756.8
24 AUG 0100	69	6.	4.	9829.9	1756.7
25 AUG 0100	70	6.	4.	9823.8	1756.7
26 AUG 0100	71	6.	4.	9818.7	1756.7
27 AUG 0100	72	6.	4.	9808.7	1756.7
28 AUG 0100	73	6.	4.	9794.8	1756.6
29 AUG 0100	74	6.	4.	9777.8	1756.6
30 AUG 0100	75	6.	4.	9759.5	1756.6
31 AUG 0100	76	6.	4.	9740.9	1756.5
1 SEP 0100	77	6.	4.	9722.3	1756.5
2 SEP 0100	78	6.	4.	9703.7	1756.4
3 SEP 0100	79	6.	4.	9684.8	1756.4
4 SEP 0100	80	6.	4.	9664.9	1756.3
5 SEP 0100	81	6.	4.	9644.9	1756.3
6 SEP 0100	82	6.	4.	9624.7	1756.2
7 SEP 0100	83	6.	4.	9604.7	1756.2
8 SEP 0100	84	6.	4.	9588.2	1756.1
9 SEP 0100	85	6.	4.	9570.4	1756.1
10 SEP 0100	86	6.	4.	9555.2	1756.0
11 SEP 0100	87	6.	4.	9537.8	1756.0
12 SEP 0100	88	6.	4.	9519.5	1756.0
13 SEP 0100	89	6.	4.	9498.6	1755.9
14 SEP 0100	90	6.	4.	9479.9	1755.9
15 SEP 0100	91	6.	4.	9464.3	1755.8
16 SEP 0100	92	6.	4.	9448.4	1755.8
17 SEP 0100	93	6.	4.	9429.4	1755.7
18 SEP 0100	94	6.	4.	9411.9	1755.7
19 SEP 0100	95	6.	4.	9399.1	1755.6
20 SEP 0100	96	6.	4.	9385.8	1755.6
21 SEP 0100	97	6.	4.	9372.3	1755.6
22 SEP 0100	98	6.	4.	9364.7	1755.6

17 DEC 0100	184	6.	4.	8297.4	1752.7
18 DEC 0100	185	6.	4.	8299.2	1752.7
19 DEC 0100	186	6.	4.	8300.9	1752.7
20 DEC 0100	187	6.	4.	8290.4	1752.6
21 DEC 0100	188	6.	4.	8275.1	1752.6
22 DEC 0100	189	6.	4.	8260.7	1752.5
23 DEC 0100	190	6.	4.	8244.1	1752.5
24 DEC 0100	191	6.	4.	8238.4	1752.5
25 DEC 0100	192	6.	4.	8255.7	1752.5
26 DEC 0100	193	6.	4.	8272.6	1752.6
27 DEC 0100	194	6.	4.	8267.5	1752.6
28 DEC 0100	195	6.	4.	8251.5	1752.5
29 DEC 0100	196	6.	4.	8235.4	1752.5
30 DEC 0100	197	6.	4.	8221.3	1752.4
31 DEC 0100	198	6.	4.	8206.1	1752.4
1 JAN 0100	199	6.	4.	8189.5	1752.3
2 JAN 0100	200	6.	4.	8169.6	1752.3
3 JAN 0100	201	6.	4.	8150.5	1752.2
4 JAN 0100	202	6.	4.	8153.5	1752.2
5 JAN 0100	203	6.	4.	8202.2	1752.4
6 JAN 0100	204	6.	4.	8253.6	1752.5
7 JAN 0100	205	6.	4.	8263.4	1752.6
8 JAN 0100	206	6.	4.	8252.2	1752.5
9 JAN 0100	207	6.	4.	8240.9	1752.5
10 JAN 0100	208	6.	4.	8238.7	1752.5
11 JAN 0100	209	6.	4.	8234.8	1752.5
12 JAN 0100	210	6.	4.	8260.0	1752.5
13 JAN 0100	211	6.	4.	8285.8	1752.6
14 JAN 0100	212	6.	4.	8301.2	1752.7
15 JAN 0100	213	6.	4.	8305.5	1752.7
16 JAN 0100	214	6.	4.	8306.0	1752.7
17 JAN 0100	215	6.	4.	8321.2	1752.7
18 JAN 0100	216	6.	4.	8338.5	1752.8
19 JAN 0100	217	6.	4.	8358.3	1752.8
20 JAN 0100	218	6.	4.	8412.5	1753.0
21 JAN 0100	219	6.	4.	8482.8	1753.2
22 JAN 0100	220	6.	4.	8537.1	1753.3
23 JAN 0100	221	6.	4.	8566.9	1753.4
24 JAN 0100	222	6.	4.	8570.1	1753.4
25 JAN 0100	223	6.	4.	8560.1	1753.4
26 JAN 0100	224	6.	4.	8547.6	1753.4
27 JAN 0100	225	6.	4.	8537.4	1753.3
28 JAN 0100	226	6.	4.	8534.7	1753.3
29 JAN 0100	227	6.	4.	8530.0	1753.3
30 JAN 0100	228	6.	4.	8516.2	1753.3
31 JAN 0100	229	6.	4.	8498.3	1753.2
1 FEB 0100	230	6.	4.	8480.8	1753.2
2 FEB 0100	231	6.	4.	8464.8	1753.1
3 FEB 0100	232	6.	4.	8448.3	1753.1
4 FEB 0100	233	6.	4.	8430.8	1753.0
5 FEB 0100	234	6.	4.	8422.2	1753.0
6 FEB 0100	235	6.	4.	8425.9	1753.0
7 FEB 0100	236	6.	4.	8424.2	1753.0
8 FEB 0100	237	6.	4.	8410.4	1753.0
9 FEB 0100	238	6.	4.	8392.7	1752.9
10 FEB 0100	239	6.	4.	8374.2	1752.9
11 FEB 0100	240	6.	4.	8355.1	1752.8
12 FEB 0100	241	6.	4.	8335.6	1752.8
13 FEB 0100	242	6.	4.	8315.8	1752.7
14 FEB 0100	243	6.	4.	8305.2	1752.7
15 FEB 0100	244	6.	4.	8346.1	1752.8
16 FEB 0100	245	6.	4.	8453.2	1753.1
17 FEB 0100	246	6.	4.	8543.9	1753.4
18 FEB 0100	247	6.	4.	8565.9	1753.4
19 FEB 0100	248	6.	4.	8557.5	1753.4
20 FEB 0100	249	6.	4.	8544.8	1753.4
21 FEB 0100	250	6.	4.	8535.8	1753.3
22 FEB 0100	251	6.	4.	8524.2	1753.3
23 FEB 0100	252	6.	4.	8518.0	1753.3
24 FEB 0100	253	6.	4.	8515.8	1753.3
25 FEB 0100	254	6.	4.	8515.4	1753.3
26 FEB 0100	255	6.	4.	8504.5	1753.2
27 FEB 0100	256	6.	4.	8489.0	1753.2
28 FEB 0100	257	6.	4.	8473.7	1753.2
1 MAR 0100	258	6.	4.	8518.0	1753.3
2 MAR 0100	259	6.	4.	8694.7	1753.9
3 MAR 0100	260	6.	4.	8891.0	1754.3
4 MAR 0100	261	6.	4.	8966.8	1754.5
5 MAR 0100	262	6.	4.	8969.7	1754.5
6 MAR 0100	263	6.	4.	8965.1	1754.5
7 MAR 0100	264	6.	4.	8971.0	1754.5
8 MAR 0100	265	6.	4.	9000.4	1754.6
9 MAR 0100	266	6.	4.	9031.2	1754.7
10 MAR 0100	267	6.	4.	9083.0	1754.8
11 MAR 0100	268	6.	4.	9197.2	1755.1
12 MAR 0100	269	6.	4.	9301.0	1755.4
13 MAR 0100	270	6.	4.	9330.1	1755.5
14 MAR 0100	271	6.	4.	9327.3	1755.5
15 MAR 0100	272	6.	4.	9357.8	1755.5
16 MAR 0100	273	6.	4.	9444.9	1755.8
17 MAR 0100	274	6.	4.	9523.5	1756.0
18 MAR 0100	275	6.	4.	9543.7	1756.0
19 MAR 0100	276	6.	4.	9540.9	1756.0
20 MAR 0100	277	6.	4.	9544.6	1756.0
21 MAR 0100	278	6.	4.	9547.1	1756.0
22 MAR 0100	279	6.	4.	9539.0	1756.0
23 MAR 0100	280	6.	4.	9524.2	1756.0
24 MAR 0100	281	6.	4.	9509.1	1755.9

23	SEP	0100	99	6.	4.	9356.5	1755.5	*	25	MAR	0100	282	6.	4.	9491.1	1755.9
24	SEP	0100	100	6.	4.	9342.7	1755.5	*	26	MAR	0100	283	6.	4.	9473.4	1755.8
25	SEP	0100	101	6.	4.	9330.8	1755.5	*	27	MAR	0100	284	6.	4.	9473.1	1755.8
26	SEP	0100	102	6.	4.	9323.5	1755.5	*	28	MAR	0100	285	6.	4.	9507.4	1755.9
27	SEP	0100	103	6.	4.	9317.4	1755.4	*	29	MAR	0100	286	6.	4.	9541.6	1756.0
28	SEP	0100	104	6.	4.	9309.6	1755.4	*	30	MAR	0100	287	6.	4.	9543.6	1756.0
29	SEP	0100	105	6.	4.	9296.2	1755.4	*	31	MAR	0100	288	6.	4.	9571.4	1756.1
30	SEP	0100	106	6.	4.	9279.0	1755.3	*	1	APR	0100	289	6.	4.	9680.1	1756.4
1	OCT	0100	107	6.	4.	9261.5	1755.3	*	2	APR	0100	290	6.	4.	9789.5	1756.8
2	OCT	0100	108	6.	4.	9243.6	1755.2	*	3	APR	0100	291	6.	4.	9822.8	1756.7
3	OCT	0100	109	6.	4.	9225.1	1755.2	*	4	APR	0100	292	6.	4.	9817.7	1756.7
4	OCT	0100	110	6.	4.	9207.1	1755.1	*	5	APR	0100	293	6.	4.	9816.3	1756.7
5	OCT	0100	111	6.	4.	9188.7	1755.1	*	6	APR	0100	294	6.	4.	9832.0	1756.7
6	OCT	0100	112	6.	4.	9169.2	1755.0	*	7	APR	0100	295	6.	4.	9855.0	1756.8
7	OCT	0100	113	6.	4.	9149.1	1755.0	*	8	APR	0100	296	6.	4.	9859.8	1756.8
8	OCT	0100	114	6.	4.	9129.5	1754.9	*	9	APR	0100	297	6.	4.	9860.2	1756.8
9	OCT	0100	115	6.	4.	9111.1	1754.9	*	10	APR	0100	298	6.	4.	9881.9	1756.9
10	OCT	0100	116	6.	4.	9092.5	1754.8	*	11	APR	0100	299	6.	4.	9913.8	1756.9
11	OCT	0100	117	6.	4.	9072.7	1754.8	*	12	APR	0100	300	6.	4.	9930.4	1757.0
12	OCT	0100	118	6.	4.	9052.3	1754.7	*	13	APR	0100	301	6.	4.	9949.6	1757.0
13	OCT	0100	119	6.	4.	9031.9	1754.7	*	14	APR	0100	302	6.	4.	9944.7	1757.0
14	OCT	0100	120	6.	4.	9011.4	1754.6	*	15	APR	0100	303	6.	4.	9952.3	1757.0
15	OCT	0100	121	6.	4.	8991.0	1754.6	*	16	APR	0100	304	6.	4.	10003.3	1757.2
16	OCT	0100	122	6.	4.	8970.6	1754.5	*	17	APR	0100	305	6.	4.	10058.1	1757.3
17	OCT	0100	123	6.	4.	8950.0	1754.5	*	18	APR	0100	306	6.	4.	10106.8	1757.4
18	OCT	0100	124	6.	4.	8929.5	1754.4	*	19	APR	0100	307	6.	4.	10204.0	1757.7
19	OCT	0100	125	6.	4.	8909.0	1754.4	*	20	APR	0100	308	6.	4.	10304.0	1757.9
20	OCT	0100	126	6.	4.	8888.6	1754.3	*	21	APR	0100	309	6.	4.	10337.1	1758.0
21	OCT	0100	127	6.	4.	8868.1	1754.2	*	22	APR	0100	310	6.	4.	10330.1	1758.0
22	OCT	0100	128	6.	4.	8847.6	1754.2	*	23	APR	0100	311	6.	4.	10328.0	1757.9
23	OCT	0100	129	6.	4.	8827.1	1754.1	*	24	APR	0100	312	6.	4.	10319.1	1757.9
24	OCT	0100	130	6.	4.	8806.6	1754.1	*	25	APR	0100	313	6.	4.	10307.5	1757.9
25	OCT	0100	131	6.	4.	8786.1	1754.0	*	26	APR	0100	314	6.	4.	10304.2	1757.9
26	OCT	0100	132	6.	4.	8765.7	1754.0	*	27	APR	0100	315	6.	4.	10319.0	1757.9
27	OCT	0100	133	6.	4.	8747.1	1753.9	*	28	APR	0100	316	6.	4.	10382.4	1758.1
28	OCT	0100	134	6.	4.	8731.9	1753.9	*	29	APR	0100	317	6.	4.	10510.6	1758.4
29	OCT	0100	135	6.	4.	8716.3	1753.8	*	30	APR	0100	318	6.	4.	10482.8	1758.3
30	OCT	0100	136	6.	4.	8697.4	1753.8	*	1	MAY	0100	319	6.	4.	10738.2	1758.9
31	OCT	0100	137	6.	4.	8680.1	1753.7	*	2	MAY	0100	320	6.	4.	10739.9	1758.9
1	NOV	0100	138	6.	4.	8673.3	1753.7	*	3	MAY	0100	321	6.	4.	10764.6	1758.9
2	NOV	0100	139	6.	4.	8674.6	1753.7	*	4	MAY	0100	322	6.	4.	10786.4	1759.0
3	NOV	0100	140	6.	4.	8676.1	1753.7	*	5	MAY	0100	323	6.	4.	10863.7	1759.2
4	NOV	0100	141	6.	4.	8664.8	1753.7	*	6	MAY	0100	324	6.	4.	10931.5	1759.4
5	NOV	0100	142	6.	4.	8648.2	1753.6	*	7	MAY	0100	325	6.	4.	10997.0	1759.5
6	NOV	0100	143	6.	4.	8630.6	1753.6	*	8	MAY	0100	326	6.	4.	11028.7	1759.6
7	NOV	0100	144	6.	4.	8612.5	1753.5	*	9	MAY	0100	327	6.	4.	11039.0	1759.6
8	NOV	0100	145	6.	4.	8593.9	1753.5	*	10	MAY	0100	328	6.	4.	11034.6	1759.6
9	NOV	0100	146	6.	4.	8576.8	1753.4	*	11	MAY	0100	329	6.	4.	11029.2	1759.6
10	NOV	0100	147	6.	4.	8562.7	1753.4	*	12	MAY	0100	330	6.	4.	11023.2	1759.6
11	NOV	0100	148	6.	4.	8548.8	1753.4	*	13	MAY	0100	331	6.	4.	11014.3	1759.5
12	NOV	0100	149	6.	4.	8531.3	1753.3	*	14	MAY	0100	332	6.	4.	11001.6	1759.5
13	NOV	0100	150	6.	4.	8513.6	1753.3	*	15	MAY	0100	333	6.	4.	10998.3	1759.5
14	NOV	0100	151	6.	4.	8503.1	1753.2	*	16	MAY	0100	334	6.	4.	10970.8	1759.4
15	NOV	0100	152	6.	4.	8503.2	1753.2	*	17	MAY	0100	335	6.	4.	10957.0	1759.4
16	NOV	0100	153	6.	4.	8505.1	1753.2	*	18	MAY	0100	336	6.	4.	10947.6	1759.4
17	NOV	0100	154	6.	4.	8506.9	1753.2	*	19	MAY	0100	337	6.	4.	10945.4	1759.4
18	NOV	0100	155	6.	4.	8510.1	1753.3	*	20	MAY	0100	338	6.	4.	10943.4	1759.4
19	NOV	0100	156	6.	4.	8520.5	1753.3	*	21	MAY	0100	339	6.	4.	10936.3	1759.4
20	NOV	0100	157	6.	4.	8541.2	1753.3	*	22	MAY	0100	340	6.	4.	10943.1	1759.4
21	NOV	0100	158	6.	4.	8554.2	1753.4	*	23	MAY	0100	341	6.	4.	10976.2	1759.5
22	NOV	0100	159	6.	4.	8554.4	1753.4	*	24	MAY	0100	342	6.	4.	11006.2	1759.5
23	NOV	0100	160	6.	4.	8546.2	1753.4	*	25	MAY	0100	343	6.	4.	11012.7	1759.5
24	NOV	0100	161	6.	4.	8535.7	1753.3	*	26	MAY	0100	344	6.	4.	11007.5	1759.5
25	NOV	0100	162	6.	4.	8523.8	1753.3	*	27	MAY	0100	345	6.	4.	10999.5	1759.5
26	NOV	0100	163	6.	4.	8510.9	1753.3	*	28	MAY	0100	346	6.	4.	10990.7	1759.5
27	NOV	0100	164	6.	4.	8500.9	1753.2	*	29	MAY	0100	347	6.	4.	10980.2	1759.5
28	NOV	0100	165	6.	4.	8509.5	1753.3	*	30	MAY	0100	348	6.	4.	10966.0	1759.4
29	NOV	0100	166	6.	4.	8534.0	1753.3	*	31	MAY	0100	349	6.	4.	10949.7	1759.4
30	NOV	0100	167	6.	4.	8545.4	1753.4	*	1	JUN	0100	350	6.	4.	10936.1	1759.4
1	DEC	0100	168	6.	4.	8539.0	1753.3	*	2	JUN	0100	351	6.	4.	10952.0	1759.4
2	DEC	0100	169	6.	4.	8539.9	1753.3	*	3	JUN	0100	352	6.	4.	11013.8	1759.5
3	DEC	0100	170	6.	4.	8522.7	1753.3	*	4	JUN	0100	353	6.	4.	11076.6	1759.7
4	DEC	0100	171	6.	4.	8515.9	1753.3	*	5	JUN	0100	354	6.	4.	11106.9	1759.8
5	DEC	0100	172	6.	4.	8507.7	1753.3	*	6	JUN	0100	355	6.	4.	11118.5	1759.8
6	DEC	0100	173	6.	4.	8496.3	1753.2	*	7	JUN	0100	356	6.	4.	11126.4	1759.8
7	DEC	0100	174	6.	4.	8481.2	1753.2	*	8	JUN	0100	357	6.	4.	11141.1	1759.8
8	DEC	0100	175	6.	4.	8463.7	1753.1	*	9	JUN	0100	358	6.	4.	11153.3	1759.9
9	DEC	0100	176	6.	4.	8445.7	1753.1	*	10	JUN	0100	359	6.	4.	11160.3	1759.9
10	DEC	0100	177	6.	4.	8427.1	1753.0	*	11	JUN	0100	360	6.	4.	11170.4	1759.9
11	DEC	0100	178	6.	4.	8408.1	1753.0	*	12	JUN	0100	361	6.	4.	11202.1	1760.0
12	DEC	0100	179	6.	4.	8388.8	1752.9	*	13	JUN	0100	362	6.	4.	11207.7	1760.0
13	DEC	0100	180	6.	4.	8369.3	1752.9	*	14	JUN	0100	363	6.	4.	11201.6	1760.0
14	DEC	0100	181	6.	4.	8349.6	1752.8	*	15	JUN	0100	364	6.	4.	11192.6	1759.9
15	DEC	0100	182	6.	4.	8329.8	1752.7	*	16	JUN	0100	365	6.	4.	11180.6	1759.9
16	DEC	0100	183	6.	4.	8309.9	1752.7	*	17	JUN	0100	366	6.	4.	11166.9	1758.9

AK OUTFLOW IS 4. AT TIME9664.00 HOURS

***** PUMP FLOW HYDROGRAPH *****

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			10-DAY	30-DAY	90-DAY	365.0-DAY
(CFS)	(HR)					
		(CFS)				
6.	24.00		6.	6.	6.	6.
		(INCHES)	0.522	1.565	4.695	18.015
		(AC-FT)	121.	369.	1107.	4482.

***** OUTFLOW HYDROGRAPH *****

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
		10-DAY	30-DAY	90-DAY	365.0-DAY	
(CFS)	(HR)	(CFS)				
4.	8660.00	4.	4.	4.	4.	
		(INCHES)	0.369	1.104	3.296	13.105
		(AC-FT)	87.	260.	775.	3089.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		10-DAY	30-DAY	90-DAY	365.0-DAY
(AC-FT)	(HR)				
11208.	8664.00	11177.	11055.	10494.	9436.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		10-DAY	30-DAY	90-DAY	365.0-DAY
(FEET)	(HR)				
1759.98	8664.00	1759.91	1759.63	1758.31	1753.85

CUMULATIVE AREA = 4.42 SQ MI

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

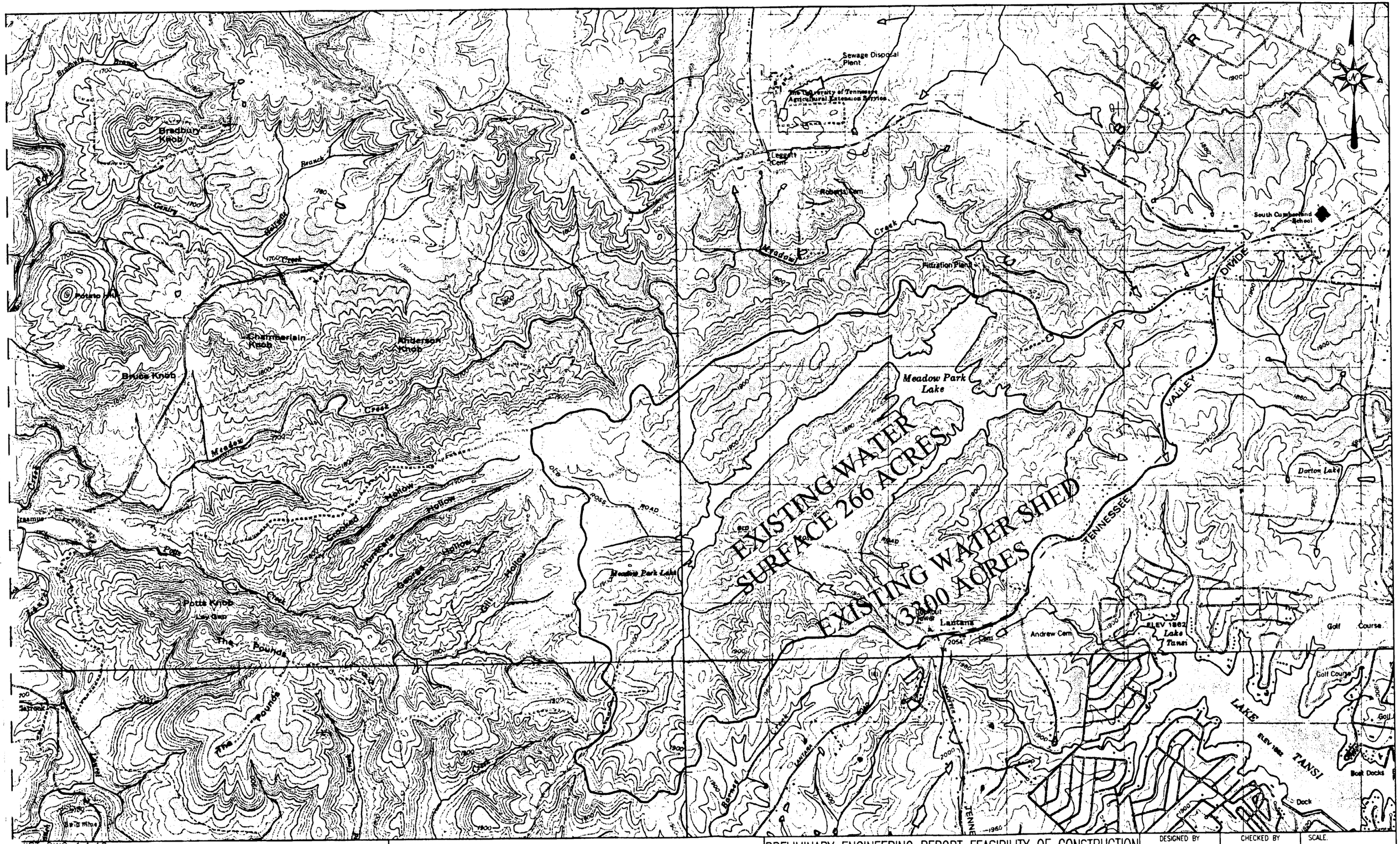
OPERATION	STATION	AREA	PLAN		RATIO 1
					RATIOS APPLIED TO FLOWS
					1.00
HYDROGRAPH AT	SUB1	3.72	1	FLOW	111.
				TIME	6192.00
			2	FLOW	111.
				TIME	6192.00
HYDROGRAPH AT	SUB2	0.70	1	FLOW	25.
				TIME	6192.00
			2	FLOW	25.
				TIME	6192.00
2 COMBINED AT	COMB1	4.42	1	FLOW	136.
				TIME	6192.00
			2	FLOW	136.
				TIME	6192.00
PUMP FLOW TO		4.42	1	FLOW	0.
				TIME	0.00
			2	FLOW	4.
				TIME	24.00
HYDROGRAPH AT	DAM	4.42	1	FLOW	136.
				TIME	6192.00
			2	FLOW	4.
				TIME	8660.00
			** PEAK STAGES IN FEET **		
			1	STAGE	0.00
				TIME	0.00
			2	STAGE	1759.98
				TIME	8664.00

PLAN 2 .....

	INITIAL VALUE	SPILLWAY CREST	TOP OF DAM
ELEVATION	1759.00	1760.00	1770.00
STORAGE	10349.	11219.	16410.
OUTFLOW	4.	4.	17081.

RATIO OF PMF	MAXIMUM RESERVOIR W.S.ELEV	MAXIMUM DEPTH OVER DAM	MAXIMUM STORAGE AC-FT	MAXIMUM OUTFLOW CFS	DURATION OVER TOP HOURS	TIME OF MAX OUTFLOW HOURS	TIME OF FAILURE HOURS
1.00	1759.98	0.00	11208.	4.	0.00	8664.00	0.00

*** 1 ERROR(S) DETECTED BY HEC-1 ***



KIST..DWG 1:1.18

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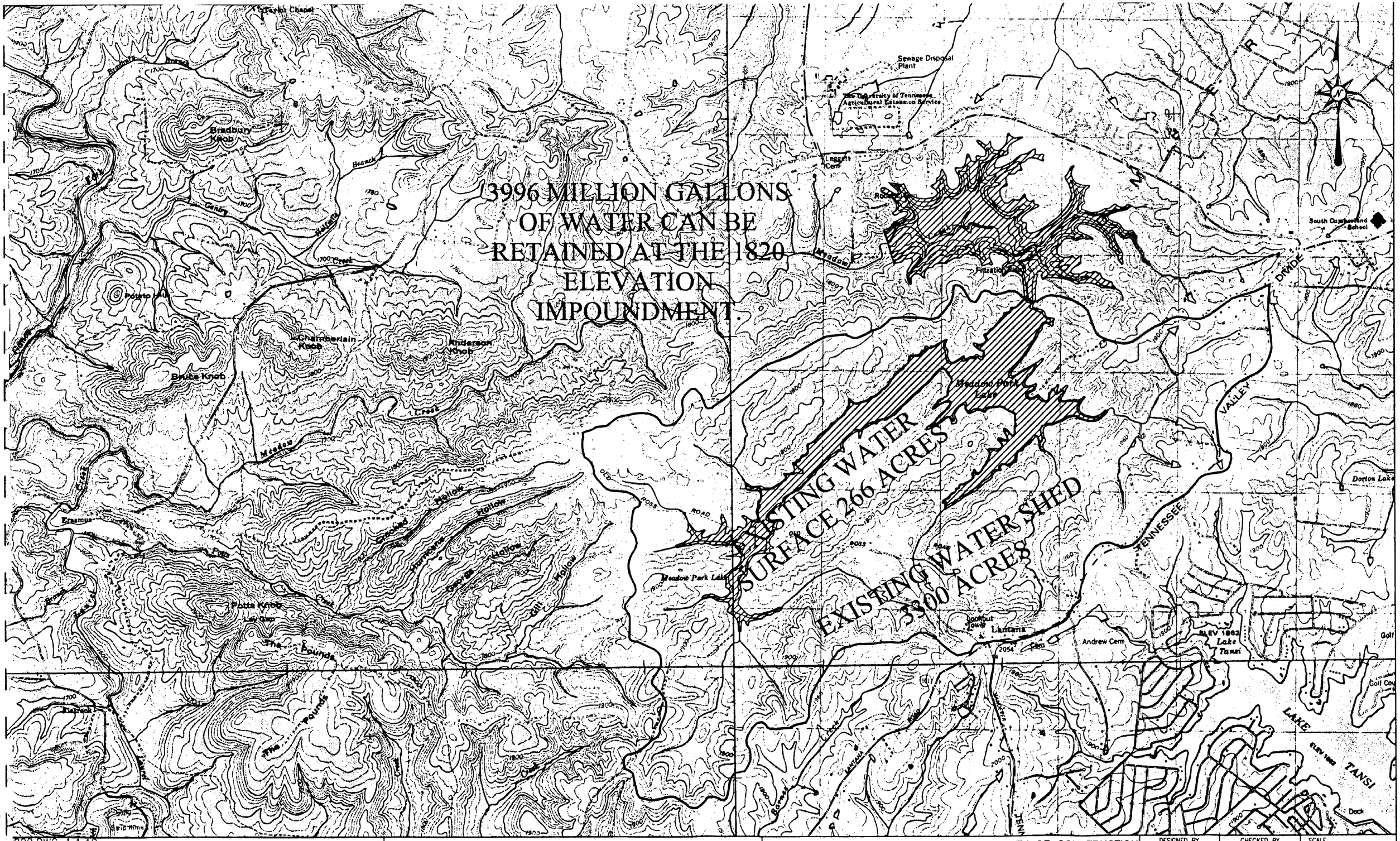
CUMBERLAND COUNTY, TENNESSEE

PRELIMINARY ENGINEERING REPORT FEASIBILITY OF CONSTRUCTION IMPOUNDMENTS DOWNSTREAM OF MEADOW PARK LAKE
FIGURE 1-1 EXISTING MEADOW PARK LAKE AREA

DESIGNED BY	CHECKED BY	SCALE.
CLD		NO SCALE
DRAWN BY	DATE	FILE NO.
RJS	11-01	COC005SE06WD11



820.DWG 1:1.18

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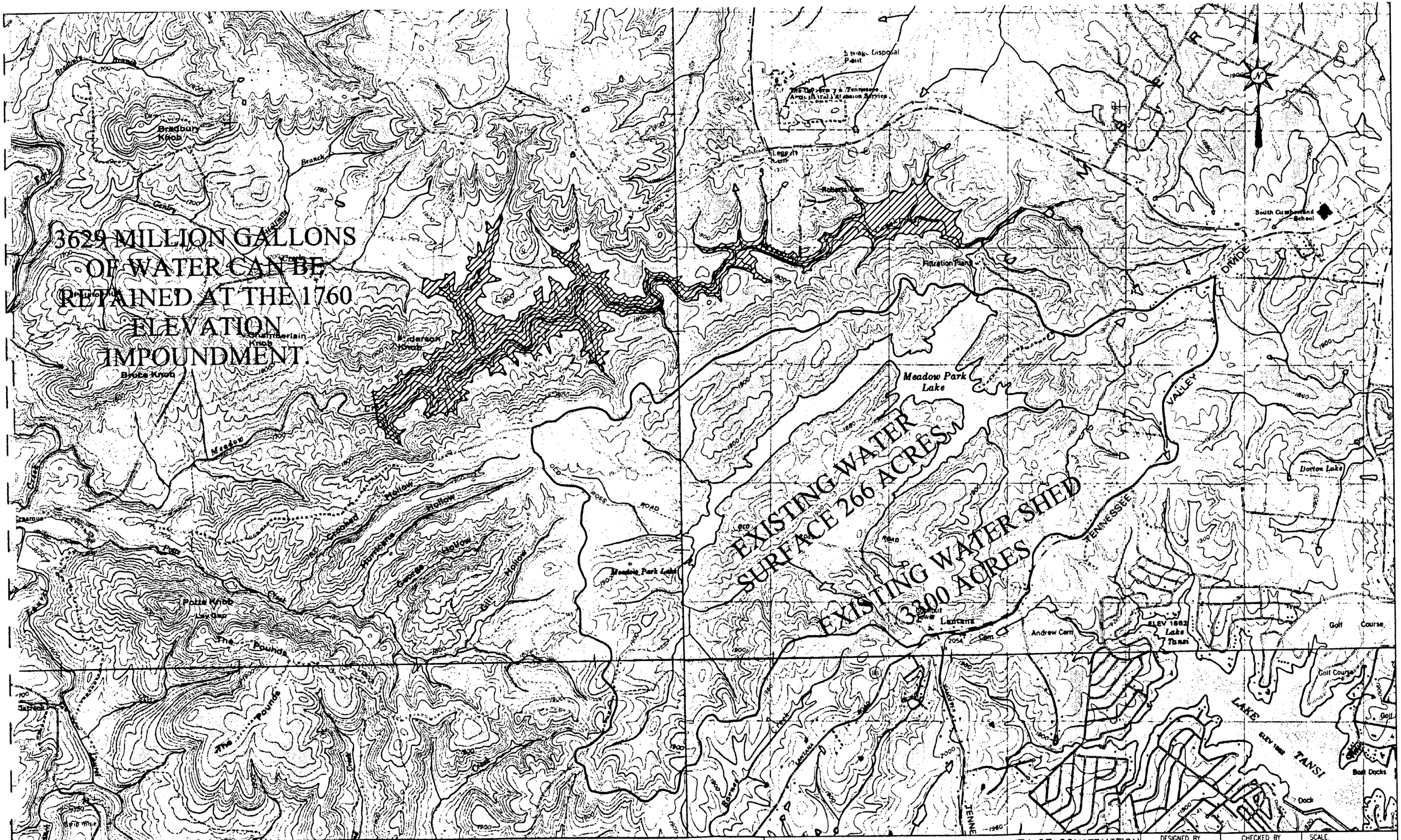
PRELIMINARY ENGINEERING REPORT FEASIBILITY OF CONSTRUCTION IMPOUNDMENTS DOWNSTREAM OF MEADOW PARK LAKE
FIGURE III-1 – ALTERNATE ONE

DESIGNED BY	CHECKED BY	SCALE
CLD		NO SCALE
DRAWN BY	DATE	FILE NO.
RJS	11-01	COC005SE06WD11



760.DWG 1:1.18

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PRELIMINARY ENGINEERING REPORT FEASIBILITY OF CONSTRUCTION
IMPOUNDMENTS DOWNSTREAM OF MEADOW PARK LAKE
FIGURE IV-1 – ALTERNATE TWO

DESIGNED BY	CHECKED BY	SCALE
CLD		NO SCALE
DRAWN BY	DATE	FILE NO.
RJS	11-01	COC005SE06WD11