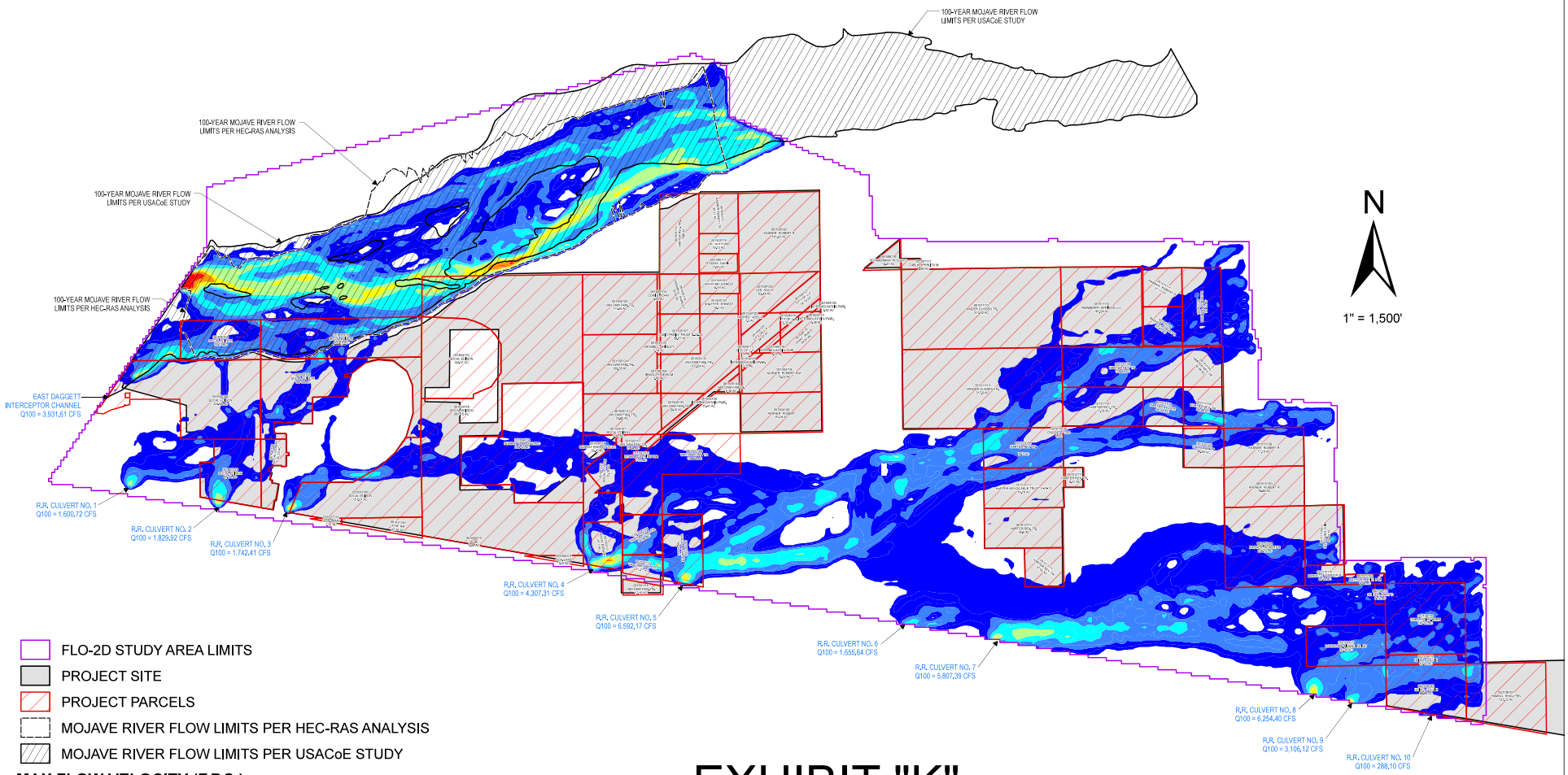

FLO-2D STUDY AREA LIMITS
PROJECT SITE
PROJECT PARCELS
MOJAVE RIVER FLOW LIMITS PER HEC-RAS ANALYSIS
MOJAVE RIVER FLOW LIMITS PER USACoE STUDY

MAX FLOW VELOCITY (F.P.S.):

- 0.5 - 1.0
- 1.0 - 2.0
- 2.0 - 3.0
- 3.0 - 4.0
- 4.0 - 5.0
- 5.0 - 6.0
- > 6.0 (MAX. 9.0)

EXHIBIT "K"
CALCULATED 100-YEAR FLOW VELOCITIES

VICINITY OF PROPOSED DAGGETT SOLAR POWER FACILITY
DAGGETT (SAN BERNARDINO COUNTY), CA

ATTACHMENT NO. 1

East Daggett Diversion Channel
Published Design Q_{100}

August 18, 1967

EAST DAGGETT DIVERSION TO

A.T. & S.F. BRIDGE, SECTION 21

T9N, R1E SBB&M

ASSUMPTIONS USED IN STUDY

1. Backwater from ponding at the ~~entrance~~ entrances to the culverts beneath the freeway (California Route 40) is not an acceptable situation, as it causes inundation of road surface.

2. Damage to roadway embankment by impounded water is a situation that must be avoided.

3. Roadway embankment should not be overtopped by a storm of 100 year frequency.

4. Conditions of flow at entrance and exit are considered good with earth ditches approaching and leaving culvert.

5. Some silting and some debris are expected, but in figuring capacities of facilities under road and railroad embankments, these factors were neglected so as to arrive at a maximum or peak flow.

6. Approach conditions are assumed by using plan and profile sheet (stick file Number 80) and assuming construction was accomplished per this sheet without alternations. The easterly levee and ditch were assumed to have approximately the same flowline grade as the westerly ditch and levee. No information is available on the easterly levee and ditch Flowline grades are assumed as 0.024 ft/ft as they approach both the bridges beneath National Trails Highway (old 66) and the bridge beneath the A.T. & S.F. Railroad bridge.

7. Manning's "N" for earth channels is assumed to be 0.025 and for R.C. Box and R.C. Pipe it is assumed to be 0.012.

8. Magnitude of the 100 year storm is assumed to be 3900 cfs for the area that now drains ultimately to the bridge beneath the A.T. & S.F. tracks. Capacity of the existing drainage facilities beneath existing freeway (State Route 40) are computed to be approximately 3000 cfs.

ATTACHMENT NO. 2

Mojave River Wash
Published Estimated Q_{100} & V_{100}

FACILITY MOJAVE RIVER

LOCATION	MAP INDEX	Q (SPF)	Q (100)	Q(FCD) (100)	FACILITY CAPACITY	MAX EVENT Q(MAX)	EVENT DATE	REMARKS
AFTON CANYON		30,000	17,000					FROM CORPS OF ENGR. REPORT "FLOOD PLAIN INFORMATION" DATED OCT. 1968.
HARVARD ROAD		"	17,000					
YERMO-DAGGETT RD. CROSSING		"	18,500					
I-15 FWY AT BARSTOW		"	18,500					
OLD U.S.HWY 91 BARSTOW CROSSING		"	18,500					
LENWOOD ROAD		"	19,000			25,000	DEC 1989	
HINKLEY ROAD		30,000	21,000					
INDIAN TRAILS		"	23,000					
HELENDALE		"	23,000					
BRYMAN		"	24,500					
ORO GRANDE		"	24,500					
LOWER NARROWS		"	24,500					
VICTOR CEMENT CO. R.R.		"	24,500					
FREEWAY U.S. HIGHWAY 66		"	24,500					
UPPER NARROWS		"	25,000					
BEAR VALLEY CUTOFF		"	25,000					
ROCK SPRINGS ROAD		"	23,200					

Table 4

INTERMEDIATE REGIONAL FLOOD

PEAK DISCHARGES

Stream	Location	Mile above mouth	Drainage area sq. mi.	Discharge cfs
Mojave River	Lower limit of study	44.6	1,354	17,000
	Old U.S. 91 (business) at Barstow	61.5	1,290	18,500
	Lenwood	67.0	1,233	19,500
	Hodge	74.6	1,009	21,000
	Upper limit of study	84.0	866	23,000

Determination of Standard Project Flood

Severe as the maximum known flood may have been on any given stream, it is a commonly accepted fact that, in practically all cases, sooner or later a larger flood can and probably will occur. For the purpose of determining the Standard Project Flood, a standard project storm was derived in accordance with the Corps of Engineers' criteria. Past floods were analyzed to determine loss rates. The loss rates were applied to the standard project storm precipitation to determine the Standard Project Flood. The Standard Project Flood is defined as the largest flood that can be expected from the most severe combination of meteorological and hydrological conditions considered reasonably characteristic of the geographical region involved.

The Standard Project Flood peak discharges at several points along the Mojave River are given in table 5. These peak discharges are based on the assumed occurrence of a local storm (thunderstorm) centered over the tributary area along the study reach of the Mojave River and with the Mojave River Reservoir in operation. The analysis indicates that the peak discharge of the Standard Project Flood produced by the local storm will be of the same magnitude for the entire study reach of the Mojave River.

Table 6

INTERMEDIATE REGIONAL FLOOD

VELOCITY

Stream	Location	Mile above mouth	Velocity Channel fps	Velocity Overbank fps
Mojave River	Lower limit of study	44.6	4.0	2.0
	Daggett	52.7	10.0	5.5
	Old U.S. 91 (business) at Barstow	61.5	3.0	2.5
	Barstow	62.1	8.5	6.0
	Lenwood	67.0	9.0	2.0
	Hodge	74.6	3.0	1.5
	Upper limit of study	84.0	4.5	--

ATTACHMENT NO. 3

HEC-RAS Summary Calculations, W.S. Profile Plot, & Cross Sections - Mojave River Wash

HEC-RAS Plan: Plan 02 River: MOJAVE Reach: MOJAVE Profile: PF 1

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
MOJAVE	-0	PF 1	22400.00	1945.41	1953.37		1953.87	0.002825	5.68	3946.61	801.21	0.45
MOJAVE	-102.64	PF 1	22400.00	1945.82	1952.74		1953.48	0.004773	6.87	3260.95	743.25	0.58
MOJAVE	-213.85	PF 1	22400.00	1945.00	1951.02	1951.02	1952.50	0.016420	9.79	2288.32	775.45	1.00
MOJAVE	-304.35	PF 1	22400.00	1944.99	1950.40		1950.86	0.005875	5.48	4090.06	1530.32	0.59
MOJAVE	-389.51	PF 1	22400.00	1944.53	1949.93		1950.36	0.005614	5.30	4227.06	1608.24	0.58
MOJAVE	-499.82	PF 1	22400.00	1943.98	1949.64		1949.84	0.003159	3.59	6243.57	2770.46	0.42
MOJAVE	-558.26	PF 1	22400.00	1943.00	1949.47		1949.65	0.003056	3.47	6461.94	2943.72	0.41
MOJAVE	-628.84	PF 1	22400.00	1942.94	1949.29		1949.44	0.002814	3.10	7216.59	3649.36	0.39
MOJAVE	-786.82	PF 1	22400.00	1943.17	1948.86		1949.00	0.002623	3.06	7312.05	3577.66	0.38
MOJAVE	-1003.92	PF 1	22400.00	1942.79	1948.36		1948.50	0.002061	2.98	7510.75	3191.54	0.34
MOJAVE	-1259.11	PF 1	22400.00	1941.51	1947.80		1947.95	0.002240	3.03	7394.54	3268.65	0.35
MOJAVE	-1504.11	PF 1	22400.00	1940.98	1947.11		1947.29	0.003203	3.47	6446.84	3031.39	0.42
MOJAVE	-1759.33	PF 1	22400.00	1938.28	1946.28		1946.47	0.003212	3.53	6339.38	2913.41	0.42
MOJAVE	-2039.63	PF 1	22400.00	1941.00	1945.61		1945.75	0.002031	3.01	7432.19	3076.35	0.34
MOJAVE	-2275.69	PF 1	22400.00	1940.00	1945.08		1945.24	0.002326	3.12	7170.82	3114.00	0.36
MOJAVE	-2419.17	PF 1	22400.00	1939.98	1944.77		1944.91	0.002178	3.08	7280.31	3078.71	0.35
MOJAVE	-2581.62	PF 1	22400.00	1939.67	1944.38		1944.55	0.002336	3.24	6917.60	2854.96	0.37
MOJAVE	-2820.45	PF 1	22400.00	1939.00	1943.74		1943.92	0.002941	3.43	6537.58	2946.78	0.41
MOJAVE	-3038.99	PF 1	22400.00	1938.28	1943.10		1943.27	0.003035	3.30	6796.61	3324.08	0.41
MOJAVE	-3287.31	PF 1	22400.00	1937.10	1942.58		1942.70	0.001699	2.80	7991.79	3225.05	0.31
MOJAVE	-3669.8	PF 1	22400.00	1937.00	1941.96		1942.07	0.001592	2.71	8271.12	3347.01	0.30
MOJAVE	-3946.09	PF 1	22400.00	1937.00	1941.45		1941.58	0.001971	2.86	7843.23	3440.31	0.33
MOJAVE	-4152.74	PF 1	22400.00	1935.65	1941.06		1941.19	0.001826	2.81	7972.38	3384.25	0.32
MOJAVE	-4256.56	PF 1	22400.00	1935.00	1940.88		1941.00	0.001811	2.77	8080.18	3477.90	0.32
MOJAVE	-4380.27	PF 1	22400.00	1935.00	1940.69		1940.79	0.001497	2.51	8936.80	3878.38	0.29
MOJAVE	-4681.72	PF 1	22400.00	1934.42	1940.21		1940.31	0.001652	2.56	8757.79	3969.93	0.30
MOJAVE	-4925.75	PF 1	22400.00	1934.00	1939.78		1939.89	0.001824	2.72	8235.03	3666.04	0.32
MOJAVE	-5101.78	PF 1	22400.00	1933.92	1939.43		1939.55	0.002096	2.76	8121.41	3930.25	0.34
MOJAVE	-5295.07	PF 1	22400.00	1933.98	1939.03		1939.15	0.002033	2.73	8195.64	3929.71	0.33
MOJAVE	-5445.72	PF 1	22400.00	1933.98	1938.75		1938.86	0.001781	2.67	8391.48	3774.65	0.32
MOJAVE	-5564.13	PF 1	22400.00	1933.00	1938.56		1938.66	0.001514	2.46	9095.63	4087.36	0.29
MOJAVE	-5696.76	PF 1	22400.00	1932.88	1938.37		1938.46	0.001443	2.46	9106.38	3955.03	0.29
MOJAVE	-5933.19	PF 1	22400.00	1932.55	1937.94		1938.06	0.002035	2.80	8008.33	3712.43	0.34
MOJAVE	-6116.28	PF 1	22400.00	1931.97	1937.54		1937.67	0.002183	2.93	7641.11	3479.60	0.35
MOJAVE	-6217.78	PF 1	22400.00	1932.00	1937.32		1937.46	0.002011	2.94	7610.86	3239.10	0.34
MOJAVE	-6311.68	PF 1	22400.00	1932.00	1937.10		1937.25	0.002424	3.13	7166.47	3205.96	0.37
MOJAVE	-6519.34	PF 1	22400.00	1931.00	1936.50		1936.68	0.003094	3.39	6599.88	3133.68	0.41
MOJAVE	-6686.49	PF 1	22400.00	1931.00	1935.94		1936.14	0.003352	3.55	6310.33	2974.60	0.43
MOJAVE	-6790.76	PF 1	22400.00	1930.00	1935.62		1935.80	0.003051	3.42	6548.52	3041.43	0.41
MOJAVE	-6938.02	PF 1	22400.00	1930.00	1935.03		1935.25	0.004608	3.81	5875.30	3159.82	0.49
MOJAVE	-6985.71	PF 1	22400.00	1930.00	1934.89		1935.07	0.002841	3.34	6704.88	3058.67	0.40
MOJAVE	-7036.34	PF 1	22400.00	1929.92	1934.75		1934.92	0.002878	3.29	6800.23	3198.93	0.40
MOJAVE	-7098.32	PF 1	22400.00	1929.00	1934.62		1934.74	0.002512	2.82	7931.20	4244.10	0.36
MOJAVE	-7216.78	PF 1	22400.00	1929.00	1934.30		1934.42	0.002808	2.86	7845.75	4490.68	0.38
MOJAVE	-7431.74	PF 1	22400.00	1929.00	1933.82		1933.92	0.001897	2.52	8871.51	4550.39	0.32
MOJAVE	-7656.58	PF 1	22400.00	1928.99	1933.35		1933.46	0.002207	2.65	8455.44	4519.20	0.34
MOJAVE	-7809.4	PF 1	22400.00	1929.00	1932.91		1933.06	0.003157	3.07	7291.83	4082.49	0.41
MOJAVE	-7911.62	PF 1	22400.00	1929.00	1932.68		1932.79	0.002035	2.60	8614.93	4456.15	0.33
MOJAVE	-7996.33	PF 1	22400.00	1928.17	1932.52		1932.62	0.001834	2.52	8900.71	4472.60	0.31
MOJAVE	-8115.89	PF 1	22400.00	1928.00	1932.31		1932.40	0.001848	2.50	8942.61	4551.43	0.31
MOJAVE	-8218.22	PF 1	22400.00	1927.96	1932.11		1932.21	0.001872	2.53	8849.92	4475.98	0.32
MOJAVE	-8398.01	PF 1	22400.00	1926.99	1931.67		1931.80	0.002843	2.89	7749.19	4393.50	0.38
MOJAVE	-8496.64	PF 1	22400.00	1926.00	1931.43		1931.54	0.002306	2.70	8284.33	4436.47	0.35
MOJAVE	-8658.18	PF 1	22400.00	1926.00	1931.05		1931.17	0.002315	2.76	8123.49	4237.70	0.35
MOJAVE	-8879.7	PF 1	22400.00	1925.08	1930.51		1930.63	0.002489	2.79	8033.15	4349.45	0.36
MOJAVE	-9014.61	PF 1	22400.00	1925.00	1930.10		1930.25	0.003301	3.08	7266.36	4183.69	0.41
MOJAVE	-9126.4	PF 1	22400.00	1924.97	1929.75		1929.90	0.002863	3.14	7136.71	3594.65	0.39
MOJAVE	-9247.95	PF 1	22400.00	1924.19	1929.41		1929.56	0.002761	3.10	7234.07	3618.24	0.39
MOJAVE	-9364.46	PF 1	22400.00	1924.88	1929.08		1929.23	0.002912	3.11	7193.86	3713.10	0.39
MOJAVE	-9486.35	PF 1	22400.00	1924.00	1928.69		1928.85	0.003324	3.21	6972.96	3793.05	0.42
MOJAVE	-9585.89	PF 1	22400.00	1924.99	1928.38		1928.52	0.003159	3.08	7280.23	4067.25	0.41
MOJAVE	-9747.05	PF 1	22400.00	1925.00	1927.86		1928.01	0.003297	3.08	7278.59	4198.62	0.41
MOJAVE	-9878.94	PF 1	22400.00	1923.89	1927.37		1927.53	0.003847	3.28	6831.31	4022.54	0.44
MOJAVE	-9989.82	PF 1	22400.00	1923.22	1926.97		1927.12	0.003462	3.15	7110.27	4108.05	0.42
MOJAVE	-10154.2	PF 1	22400.00	1922.00	1926.57		1926.68	0.002038	2.68	8361.87	4137.53	0.33
MOJAVE	-10316.4	PF 1	22400.00	1922.00	1926.20		1926.32	0.002352	2.87	7804.38	3879.06	0.36
MOJAVE	-10465.2	PF 1	22400.00	1919.97	1925.87		1925.99	0.002123	2.78	8063.71	3898.60	0.34
MOJAVE	-10622.3	PF 1	22400.00	1919.00	1925.55		1925.67	0.001990	2.71	8259.22	3943.40	0.33
MOJAVE	-10853.5	PF 1	22400.00	1919.00	1925.15		1925.25	0.001581	2.56	8763.90	3846.23	0.30
MOJAVE	-11032.1	PF 1	22400.00	1919.82	1924.86		1924.97	0.001606	2.59	8648.21	3765.69	0.30
MOJAVE	-11260.2	PF 1	22400.00	1919.00	1924.47		1924.58	0.001801	2.69	8329.12	3736.19	0.32
MOJAVE	-11487.1	PF 1	22400.00	1918.99	1924.05		1924.16	0.001853	2.69	8320.73	3806.47	0.32
MOJAVE	-11657.9	PF 1	22400.00	1918.00	1923.78		1923.87	0.001507	2.48	9047.15	4020.59	0.29
MOJAVE	-12013.5	PF 1	22400.00	1917.87	1923.16		1923.27	0.001900	2.73	8214.63	3756.41	0.32
MOJAVE	-12299.9	PF 1	22400.00	1917.21	1922.58		1922.70	0.002070	2.86	7835.33	3559.47	0.34
MOJAVE	-12543.0	PF 1	22400.00	1916.99	1921.87		1922.05	0.003587	3.40	6596.89	3496.90	0.44
MOJAVE	-12628.8	PF 1	22400.00	1916.00	1921.62		1921.77	0.002753	3.11	7207.34	3578.21	0.39
MOJAVE	-12868.0	PF 1	22400.00	1914.00	1921.06		1921.18	0.002150	2.83	7903.91	3741.65	0.34
MOJAVE	-13159.9	PF 1	22400.00	1914.00	1920.49		1920.60	0.001882	2.66	8428.11	3978.06	0.32

HEC-RAS Plan: Plan 02 River: MOJAVE Reach: MOJAVE Profile: PF 1 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
MOJAVE	-13489.0	PF 1	22400.00	1913.99	1919.74		1919.87	0.002562	2.98	7524.97	3776.08	0.37
MOJAVE	-13690.7	PF 1	22400.00	1913.64	1919.19		1919.34	0.002745	3.08	7263.80	3640.34	0.38
MOJAVE	-13883.7	PF 1	22400.00	1914.00	1918.64		1918.81	0.002775	3.22	6947.63	3283.99	0.39
MOJAVE	-14058.6	PF 1	22400.00	1912.80	1918.13		1918.29	0.003134	3.26	6881.10	3511.83	0.41
MOJAVE	-14197.0	PF 1	22400.00	1912.00	1917.68		1917.85	0.003237	3.26	6872.57	3587.26	0.41
MOJAVE	-14448.4	PF 1	22400.00	1912.00	1916.87		1917.03	0.003276	3.27	6846.68	3585.25	0.42
MOJAVE	-14619.3	PF 1	22400.00	1912.00	1916.37		1916.52	0.002707	3.08	7264.32	3602.42	0.38
MOJAVE	-14900.4	PF 1	22400.00	1912.00	1915.55		1915.72	0.002984	3.30	6793.47	3278.58	0.40
MOJAVE	-15108.7	PF 1	22400.00	1911.00	1914.91		1915.08	0.003096	3.33	6734.73	3297.35	0.41
MOJAVE	-15208.8	PF 1	22400.00	1910.98	1914.52		1914.72	0.004307	3.57	6270.82	3533.97	0.47
MOJAVE	-15343.3	PF 1	22400.00	1910.00	1913.96		1914.16	0.003985	3.59	6239.83	3292.15	0.46
MOJAVE	-15473.7	PF 1	22400.00	1910.00	1913.52		1913.70	0.003110	3.34	6699.63	3262.64	0.41
MOJAVE	-15543.5	PF 1	22400.00	1910.00	1913.34		1913.49	0.002623	3.18	7039.32	3248.75	0.38
MOJAVE	-15641.3	PF 1	22400.00	1909.00	1913.05		1913.21	0.003089	3.27	6844.55	3426.54	0.41
MOJAVE	-15724.2	PF 1	22400.00	1909.00	1912.88		1913.01	0.001830	2.83	7908.18	3321.24	0.32
MOJAVE	-15792.7	PF 1	22400.00	1909.00	1912.77		1912.89	0.001625	2.74	8174.86	3300.36	0.31
MOJAVE	-15882.6	PF 1	22400.00	1908.97	1912.63		1912.74	0.001535	2.71	8267.19	3253.48	0.30
MOJAVE	-15987.4	PF 1	22400.00	1907.04	1912.47		1912.58	0.001545	2.73	8197.63	3198.61	0.30
MOJAVE	-16062.3	PF 1	22400.00	1907.00	1912.37		1912.47	0.001314	2.61	8588.43	3182.36	0.28
MOJAVE	-16159.7	PF 1	22400.00	1907.00	1912.24		1912.35	0.001282	2.62	8554.59	3095.16	0.28
MOJAVE	-16237.9	PF 1	22400.00	1907.00	1912.13		1912.24	0.001456	2.67	8403.24	3255.97	0.29
MOJAVE	-16297.8	PF 1	22400.00	1907.00	1912.04		1912.15	0.001512	2.64	8491.05	3437.48	0.30
MOJAVE	-16386.0	PF 1	22400.00	1907.00	1911.91		1912.02	0.001412	2.65	8456.55	3233.60	0.29
MOJAVE	-16490.0	PF 1	22400.00	1907.00	1911.76		1911.87	0.001552	2.65	8463.49	3477.10	0.30
MOJAVE	-16635.8	PF 1	22400.00	1906.99	1911.50		1911.62	0.001849	2.81	7958.31	3397.40	0.32
MOJAVE	-16830.6	PF 1	22400.00	1905.79	1911.11		1911.24	0.002039	2.94	7628.79	3290.20	0.34
MOJAVE	-16991.6	PF 1	22400.00	1905.00	1910.78		1910.92	0.001934	2.96	7572.30	3105.72	0.33
MOJAVE	-17147.9	PF 1	22400.00	1905.00	1910.44		1910.59	0.002300	3.11	7211.97	3131.00	0.36
MOJAVE	-17326.1	PF 1	22400.00	1904.99	1909.99		1910.15	0.002618	3.26	6870.16	3055.21	0.38
MOJAVE	-17442.2	PF 1	22400.00	1904.98	1909.70		1909.85	0.002529	3.09	7249.36	3403.46	0.37
MOJAVE	-17526.8	PF 1	22400.00	1904.97	1909.48		1909.63	0.002554	3.16	7084.44	3236.38	0.38
MOJAVE	-17666.2	PF 1	22400.00	1904.96	1909.05		1909.24	0.003160	3.42	6547.46	3120.05	0.42
MOJAVE	-17764.6	PF 1	22400.00	1904.95	1908.77		1908.94	0.002806	3.31	6762.57	3092.35	0.39
MOJAVE	-17875.5	PF 1	22400.00	1903.19	1908.42		1908.60	0.003293	3.41	6574.78	3252.07	0.42
MOJAVE	-17913.4	PF 1	22400.00	1903.00	1908.31		1908.48	0.002889	3.34	6705.19	3095.52	0.40
MOJAVE	-17982.7	PF 1	22400.00	1903.99	1908.12		1908.29	0.002727	3.28	6834.55	3109.22	0.39
MOJAVE	-18087.4	PF 1	22400.00	1903.01	1907.87		1908.02	0.002301	3.08	7274.91	3202.25	0.36
MOJAVE	-18260.2	PF 1	22400.00	1903.00	1907.53		1907.65	0.001890	2.84	7877.33	3371.19	0.33
MOJAVE	-18357.1	PF 1	22400.00	1903.00	1907.13		1907.37	0.004515	3.95	5669.69	2846.14	0.49
MOJAVE	-18445.0	PF 1	22400.00	1903.00	1906.89		1907.05	0.002633	3.17	7073.35	3297.04	0.38
MOJAVE	-18538.7	PF 1	22400.00	1902.98	1906.63		1906.79	0.002924	3.23	6944.52	3411.68	0.40
MOJAVE	-18694.0	PF 1	22400.00	1901.99	1906.17		1906.33	0.002928	3.27	6853.06	3303.93	0.40
MOJAVE	-18843.3	PF 1	22400.00	1901.92	1905.75		1905.92	0.002637	3.24	6920.93	3129.75	0.38
MOJAVE	-19001.7	PF 1	22400.00	1900.97	1905.31		1905.49	0.002776	3.32	6752.85	3059.01	0.39
MOJAVE	-19204.9	PF 1	22400.00	1899.99	1904.81		1904.96	0.002348	3.16	7082.17	3039.80	0.37
MOJAVE	-19378.1	PF 1	22400.00	1899.87	1904.18		1904.41	0.004448	3.85	5814.02	2995.99	0.49
MOJAVE	-19589.1	PF 1	22400.00	1899.18	1903.52		1903.68	0.002609	3.18	7041.14	3241.06	0.38
MOJAVE	-19745.3	PF 1	22400.00	1899.00	1903.23		1903.34	0.001708	2.69	8336.74	3598.63	0.31
MOJAVE	-19898.9	PF 1	22400.00	1898.99	1902.58	1901.75	1902.90	0.005002	4.56	4909.37	2143.97	0.53

```
HEC-RAS Version 4.1.0 Jan 2010
 U.S. Army Corps of Engineers
Hydrologic Engineering Center
      609 Second Street
      Davis, California

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

PROJECT DATA
Project Title: MOJAVE
Project File : MOJAVE.prj
Run Date and Time: 6/8/2018 10:10:47 AM

Project in English units

PLAN DATA

Plan Title: Plan 02
Plan File : i:\2016 Jobs\164309 NRG Solar Inc - Coolwater\Hydrology\Attachments\HEC-RAS\MOJAVE.p02

Geometry Title: MOJAVE
Geometry File : i:\2016 Jobs\164309 NRG Solar Inc - Coolwater\Hydrology\Attachments\HEC-RAS\MOJAVE.g01

Flow Title : MOJAVE
Flow File : i:\2016 Jobs\164309 NRG Solar Inc - Coolwater\Hydrology\Attachments\HEC-RAS\MOJAVE.f01

Plan Summary Information:
Number of: Cross Sections = 128 Multiple Openings = 0
Culverts = 0 Inline Structures = 0
Bridges = 0 Lateral Structures = 0

Computational Information
Water surface calculation tolerance = 0.01
Critical depth calculation tolerance = 0.01
Maximum number of iterations = 20
Maximum difference tolerance = 0.3
Flow tolerance factor = 0.001

Computation Options
Critical depth computed only where necessary
Conveyance Calculation Method: At breaks in n values only
Friction Slope Method: Average Conveyance
Computational Flow Regime: Subcritical Flow

FLOW DATA

Flow Title: MOJAVE
Flow File : i:\2016 Jobs\164309 NRG Solar Inc - Coolwater\Hydrology\Attachments\HEC-RAS\MOJAVE.f01

Flow Data (cfs)

River	Reach	RS	PF 1
MOJAVE	MOJAVE	-0	22400

Boundary Conditions

River	Reach	Profile	Upstream	Downstream
MOJAVE	MOJAVE	PF 1	Normal S = 0.005	Normal S = 0.005

GEOMETRY DATA

Geometry Title: MOJAVE
Geometry File : i:\2016 Jobs\164309 NRG Solar Inc - Coolwater\Hydrology\Attachments\HEC-RAS\MOJAVE.g01

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -0

INPUT
Description:
Station Elevation Data num= 128

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
2568.63	1960	2569.21	1958	2570.26	1953.11	2571.09	1947.18	2571.46	1946
2576.91	1945.46	2578.07	1945.41	2581.82	1945.8	2585.15	1946	2689.1	1946
2692.7	1945.99	2725.37	1945.99	2727.87	1945.77	2747.99	1945.78	2753.05	1946
2756.74	1946.05	2764.77	1946.05	2772.75	1946.13	2778.44	1946.13	2781.68	1946.21
2782.77	1946.4	2786.64	1946	2797.3	1946.18	2802.17	1946.44	2807.73	1946.93
2815.61	1946.93	2821.96	1947	2826.44	1947.98	2832.09	1948.84	2832.24	1949.14
2833.17	1949	2840.33	1949.89	2846.49	1950.3	2854.02	1951	2856.3	1950.99
2861.89	1951.6	2869.74	1950.08	2870.85	1950	2879.86	1950.66	2882	1950.74
2885.24	1949.23	2889.52	1949.12	2897.18	1949	2901.05	1949.3	2905.3	1949.29
2913.57	1949.57	2922.05	1949.57	2927.57	1949.69	2934.69	1950.36	2936.6	1950.45
2937.75	1949.77	2943.55	1949	2953.96	1949	2959.14	1949.09	2972.29	1949.18
2985.51	1949.22	2988.1	1949.07	2998.72	1949.1	3011.18	1949.11	3012.81	1949.13
3015.17	1949	3041.06	1949	3046.56	1949.12	3058.48	1949.09	3059.16	1949.12
3082.11	1949	3110.01	1949.05	3124.6	1949.1	3132.25	1949	3145.14	1949.16
3146.28	1949.21	3157.15	1949.31	3160.09	1949.36	3165.21	1950.63	3170.81	1950.6
3173.75	1950.04	3201.09	1950	3207.83	1949.38	3212.8	1949.24	3226.24	1949.07
3228.77	1949	3233.14	1949.14	3262.81	1949.12	3278.99	1949.07	3287.97	1949.06
3293.12	1949	3299.19	1949.01	3303.61	1949.32	3310.08	1949.46	3311.7	1949.65
3312.12	1950.32	3316.78	1950.28	3322.16	1950	3338.9	1950.39	3340.58	1950.32
3343.07	1950.4	3349.89	1951	3351.76	1951	3356.75	1951.49	3359.9	1952
3367.73	1953	3374.02	1953.63	3375.65	1953.65	3376.51	1954.01	3386.04	1954.21
3391.69	1954.98	3392.39	1955	3396.19	1955.55	3397.97	1955.91	3399.68	1956
3404.96	1956.73	3406.08	1956.98	3408.33	1957.24	3416.15	1958	3419.29	1958.64
3420.96	1958.71	3422.84	1959	3423.98	1959.31	3425.12	1959.36	3427.72	1959.7
3430.83	1959.99	3443.89	1960.33	3452.58	1960.28	3457.28	1960.41	3460.54	1960.42
3469.15	1960.63	3475.49	1960.52	3480.26	1960.56				

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
2568.63	.045	2568.63	.04	3480.26	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
2568.63	3480.26	102.64	102.64	102.64	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1953.87	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.50	Wt. n-Val.		0.040	
W.S. Elev (ft)	1953.37	Reach Len. (ft)	102.64	102.64	102.64
Crit W.S. (ft)		Flow Area (sq ft)		3946.61	
E.G. Slope (ft/ft)	0.002825	Area (sq ft)		3946.61	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	801.21	Top Width (ft)		801.21	
Vel Total (ft/s)	5.68	Avg. Vel. (ft/s)		5.68	
Max Chl Dpth (ft)	7.96	Hydr. Depth (ft)		4.93	
Conv. Total (cfs)	421453.9	Conv. (cfs)		421453.9	
Length Wtd. (ft)	102.64	Wetted Per. (ft)		809.72	
Min Ch El (ft)	1945.41	Shear (lb/sq ft)		0.86	
Alpha	1.00	Stream Power (lb/ft s)	3480.26	0.00	0.00
Frctn Loss (ft)	0.37	Cum Volume (acre-ft)		3416.44	
C & E Loss (ft)	0.02	Cum SA (acres)		1597.49	

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -102.64

INPUT
Description:
Station Elevation Data num= 85

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
2501.25	1958	2504.69	1958	2521.05	1957.36	2521.73	1957.36	2528.06	1957
2531.6	1956.66	2537.62	1956.28	2548.29	1955.58	2561.02	1954.01	2568	1953.19
2569.26	1952.85	2576.4	1952	2583.07	1951	2585.48	1950.54	2589.14	1949.96
2592.22	1949.54	2595.79	1949.13	2597.85	1948.81	2599.83	1948	2601.2	1947
2602.08	1946.2	2602.79	1946.23	2607.03	1947	2622.56	1947.01	2629.66	1947
2632.8	1946.78	2642.3	1946.21	2645.18	1946	2648.83	1945.93	2655.14	1945.86
2658.03	1946	2665.93	1946	2676.59	1946.03	2685.05	1946.01	2696.37	1946
2703.82	1946.48	2706.84	1946.7	2711.8	1947	2728.2	1947	2738.37	1946.36
2744.33	1946	2752.75	1945.95	2759.82	1945.82	2766.12	1945.83	2781.48	1945.9
2782.96	1945.97	2796.87	1945.98	2808.33	1946.02	2812.11	1946.02	2819.62	1946.38
2823.81	1946.53	2831.87	1946.99	2837.72	1947.01	2841.63	1947.19	2851.55	1947.14
2854.53	1947.24	2862.86	1947.95	2867.97	1947.94	2872.72	1947.98	2883.07	1948
2891.81	1948.13	2897.51	1948.38	2905.78	1949	3203.54	1949	3211.21	1949.22
3234.99	1950	3238.7	1950.09	3243.64	1950.25	3269.29	1951	3270.71	1951
3289.31	1951.58	3293.1	1951.69	3301.6	1952	3311.58	1952.62	3317.23	1953
3318.37	1953.11	3330.54	1954	3343.95	1954.64	3352.49	1955	3363.11	1956

```
 3374.94 1957.51 3381.69 1958.35 3386.64    1959 3392.61 1959.19 3411.65    1960

Manning's n Values        num=       3
     Sta   n Val     Sta   n Val     Sta   n Val
 2501.25    .045 2501.25     .04 3411.65    .045

Bank Sta: Left   Right    Lengths: Left Channel   Right     Coeff Contr.   Expan.
       2501.25 3411.65           111.21  111.21  111.21             .1       .3

CROSS SECTION OUTPUT  Profile #PF 1

  E.G. Elev (ft)           1953.48    Element                   Left OB    Channel   Right OB
  Vel Head (ft)               0.73    Wt. n-Val.                            0.040
  W.S. Elev (ft)           1952.74    Reach Len. (ft)           111.21     111.21     111.21
  Crit W.S. (ft)                      Flow Area (sq ft)                   3260.95
  E.G. Slope (ft/ft)      0.004773    Area (sq ft)                        3260.95
  Q Total (cfs)           22400.00    Flow (cfs)                         22400.00
  Top Width (ft)            743.25    Top Width (ft)                       743.25
  Vel Total (ft/s)            6.87    Avg. Vel. (ft/s)                       6.87
  Max Chl Dpth (ft)           6.92    Hydr. Depth (ft)                       4.39
  Conv. Total (cfs)       324241.0    Conv. (cfs)                        324241.0
  Length Wtd. (ft)          111.21    Wetted Per. (ft)                     744.66
  Min Ch El (ft)           1945.82    Shear (lb/sq ft)                       1.30
  Alpha                       1.00    Stream Power (lb/ft s)   3411.65       0.00       0.00
  Frctn Loss (ft)             0.90    Cum Volume (acre-ft)                3407.95
  C & E Loss (ft)             0.08    Cum SA (acres)                      1595.67


Warning: The velocity head has changed by more than 0.5 ft (0.15 m).  This may indicate the need for additional
cross sections.
Warning: The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7 or greater
than 1.4.
          This may indicate the need for additional cross sections.

CROSS SECTION


RIVER: MOJAVE
REACH: MOJAVE             RS: -213.85

INPUT
Description:
Station Elevation Data    num=      96
     Sta    Elev     Sta    Elev     Sta    Elev     Sta    Elev     Sta    Elev
 2458.78 1953.87 2461.52    1954 2464.08 1953.96 2467.49 1953.75 2469.27 1953.58
 2471.89  1953.4  2474.4 1953.18 2477.11  1952.9 2482.92 1952.24 2485.52 1952.09
 2488.78    1952 2490.01 1951.92 2498.27 1951.02  2501.4 1950.75 2503.83 1950.62
 2507.16 1950.56 2517.18 1950.56 2530.41 1949.83  2539.2    1949 2546.64 1948.33
 2550.55    1948 2568.74  1946.5 2573.01 1946.17 2574.23    1946 2596.03    1946
 2607.46    1945 2729.84    1945 2762.87    1946 2766.29 1946.03 2771.28 1946.15
  2786.4 1946.47 2788.83 1946.49 2795.76 1946.49 2803.04 1946.77 2804.72 1946.88
 2808.42 1947.01 2810.33 1947.16 2818.85 1947.69 2821.58 1947.82 2823.82    1948
 2825.52 1948.27 2830.55    1949 2857.18    1949 2857.58 1948.99  2880.8 1948.89
 2885.69 1948.84 2948.72 1948.95 2957.99 1948.92  2965.1 1948.91 2966.38 1948.89
 2978.78 1948.89 2979.86 1948.86 2985.84 1948.92 2988.85 1948.88 2997.99 1948.46
 3002.27 1948.35 3006.28 1948.19 3014.86    1948 3032.39    1948 3039.98 1948.67
 3044.81    1949 3048.37  1949.3 3054.36 1949.75  3056.4 1949.88 3061.24 1950.04
 3064.36 1950.03 3072.78  1950.1 3081.39    1950    3122    1950 3124.42 1949.92
 3130.38 1949.79  3137.7 1949.61 3159.84    1949 3176.58    1949 3178.22 1949.13
 3182.65 1949.33 3186.56 1949.39 3194.51  1949.6 3196.51 1949.69 3212.36    1950
 3228.13 1949.98 3236.66 1949.98 3254.31    1950 3262.57 1950.47 3268.11 1950.77
 3273.52    1951 3277.45 1951.26 3288.32 1951.87 3291.78    1952 3294.53 1952.01
 3300.31 1952.46 3304.52  1952.7 3307.39    1953 3322.94    1954    3334 1954.59
 3339.83 1954.86

Manning's n Values        num=       3
     Sta   n Val     Sta   n Val     Sta   n Val
 2458.78    .045 2458.78     .04 3339.83    .045

Bank Sta: Left   Right    Lengths: Left Channel   Right     Coeff Contr.   Expan.
       2458.78 3339.83             90.5    90.5    90.5             .1       .3

CROSS SECTION OUTPUT  Profile #PF 1

  E.G. Elev (ft)           1952.50    Element                   Left OB    Channel   Right OB
  Vel Head (ft)               1.49    Wt. n-Val.                            0.040
  W.S. Elev (ft)           1951.02    Reach Len. (ft)            90.50      90.50      90.50
  Crit W.S. (ft)           1951.02    Flow Area (sq ft)                   2288.32
  E.G. Slope (ft/ft)      0.016420    Area (sq ft)                        2288.32
  Q Total (cfs)           22400.00    Flow (cfs)                         22400.00
  Top Width (ft)            775.45    Top Width (ft)                       775.45
  Vel Total (ft/s)            9.79    Avg. Vel. (ft/s)                       9.79
  Max Chl Dpth (ft)           6.02    Hydr. Depth (ft)                       2.95
  Conv. Total (cfs)       174807.7    Conv. (cfs)                        174807.7
  Length Wtd. (ft)           90.50    Wetted Per. (ft)                     775.99
  Min Ch El (ft)           1945.00    Shear (lb/sq ft)                       3.02
  Alpha                       1.00    Stream Power (lb/ft s)   3339.83       0.00       0.00
  Frctn Loss (ft)             0.83    Cum Volume (acre-ft)                3400.87
```

C & E Loss (ft) 0.31 Cum SA (acres) 1593.73

Warning: The energy equation could not be balanced within the specified number of iterations. The program used critical depth
for the water surface and continued on with the calculations.
Warning: The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for additional cross sections.
Warning: The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7 or greater than 1.4.
This may indicate the need for additional cross sections.
Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section. This may indicate the
need for additional cross sections.
Warning: During the standard step iterations, when the assumed water surface was set equal to critical depth, the calculated
water surface came back below critical depth. This indicates that there is not a valid subcritical answer. The program
defaulted to critical depth.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -304.35

INPUT
Description:
Station Elevation Data num= 228

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
1599.31	1955	1612.81	1954.67	1623.72	1954.43	1641.13	1954	1647.73	1953.65
1651.99	1953.48	1654.16	1953.42	1664.56	1953.4	1673.77	1953.29	1690.21	1953.05
1696	1952.9	1705.4	1952.42	1713.4	1952	1717.74	1951.6	1724.09	1951.09
1727.6	1950.84	1730.27	1950.69	1732.81	1950.62	1743.15	1950.55	1744.07	1950.52
1762.13	1948.88	1767.87	1948.38	1772.04	1948.1	1774.54	1948.08	1777.87	1948.15
1779.14	1948.12	1780.95	1948	1792.13	1947.3	1796.68	1947	1805.16	1947
1806.7	1946.89	1816.63	1946	1853.07	1946	1856.22	1946.28	1858.28	1946.33
1872.54	1947	1943.72	1947	1948.95	1946.99	1960.33	1946.99	1961.63	1947
1971.79	1947.17	1975.82	1947.16	2001.02	1947.48	2018.17	1947.42	2025.52	1947.39
2031.15	1947.38	2036.08	1947.35	2048.28	1947.34	2058.06	1947.31	2082.82	1947.26
2086.01	1947.25	2103.65	1947	2110.53	1947	2114.65	1947.05	2122.88	1947.09
2140.35	1947.11	2144.18	1947.1	2149.5	1947.17	2163.03	1947.53	2179.42	1948
2186.35	1948	2190.97	1948.2	2195.37	1948.33	2211.77	1949	2219.47	1949
2223.32	1949.04	2228.25	1949.26	2231.32	1949.36	2238.36	1949.5	2242.27	1949.64
2250.27	1949.83	2255.1	1950	2277.61	1950	2281.97	1949.93	2284.02	1949.96
2286.82	1949.95	2302.42	1949.62	2317.22	1949.26	2327.32	1949	2329.43	1949
2334.67	1948.81	2344.53	1948.71	2352.39	1948.64	2353.5	1948.67	2354.86	1948.64
2362.96	1948.69	2367.02	1948.82	2373.88	1949.08	2382.71	1949.45	2393.43	1949.91
2399.69	1950	2405.27	1950.32	2414.31	1951	2419.13	1951.16	2420.75	1951.19
2425.49	1951.06	2428.38	1951.04	2432.83	1951.08	2439.05	1951.04	2441.88	1951.08
2455.35	1950.46	2458.19	1950.13	2458.88	1950	2462.51	1949.62	2473.14	1948.55
2478.26	1948.18	2481.76	1948	2489.4	1948	2494.9	1947.99	2505.71	1947.99
2507.87	1948	2510.05	1948.61	2514.74	1950	2516.43	1950.48	2517.88	1951
2519.55	1951.52	2520.9	1952	2528.13	1953	2530.27	1953.23	2532.31	1953.26
2535.32	1953	2538.37	1952.58	2541.3	1952	2542.41	1951.4	2543.87	1950.47
2545.13	1949.48	2545.62	1949	2547.84	1947	2548.53	1946	2553.27	1946
2555.93	1946.02	2562.28	1946.1	2571.14	1946	2581.43	1945.54	2587.69	1945.23
2597.8	1945.72	2601.47	1946	2606.2	1946	2622.06	1945.81	2622.79	1945.79
2634.09	1945.64	2646.25	1945.43	2667.53	1945	2680.15	1945	2713.63	1944.99
2748.82	1944.99	2773.41	1945	2787.84	1945	2788.52	1945.01	2810.44	1945.74
2818.98	1946	2827.31	1946.03	2834.35	1946	2846.65	1946	2850.22	1946.22
2858.92	1946.86	2860.44	1947	2877.64	1947	2889.81	1947.55	2901.16	1948
2908.94	1948.53	2916.12	1949	2934.52	1949	2948.4	1948.47	2953.63	1948.3
2974.81	1948	2990.55	1948	2998.51	1947.99	3021.67	1947.99	3027.35	1948
3050.34	1948	3056.39	1948.61	3059.41	1948.8	3063.41	1949	3065.32	1949
3067.11	1948.85	3072.72	1948.92	3082.57	1948.8	3087.66	1948.85	3098.06	1948.92
3101.61	1949	3113.34	1949.41	3128.58	1950	3131.16	1950.16	3142.4	1950.89
3145.42	1951	3157.45	1951	3159.71	1950.99	3186.14	1950.01	3186.49	1950
3195.02	1949.52	3200.87	1949.21	3204.73	1949.06	3206.85	1949.02	3213.05	1949.03
3217.71	1949	3258.96	1949	3260.47	1949.01	3275.99	1949.01	3284.83	1949.02
3306.79	1949.63	3309.11	1949.68	3316.06	1949.72	3319.25	1949.61	3319.89	1949.65
3325.34	1949.64	3327.4	1949.67	3330.28	1949.62	3344.48	1949	3353.51	1948.96
3362.49	1948.97	3367.08	1949	3370.85	1949.13	3373.43	1949.13	3375.64	1949.06
3377.9	1949.11	3385.66	1949.73	3389.36	1950.07	3402.77	1951	3404.68	1951.27
3409.44	1952	3415.84	1952.41	3423.31	1953	3426.88	1953.04	3434.18	1953.02
3441.69	1953.04	3451.21	1953.41	3459.11	1953.67				

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
1599.31	.045	1599.31	.04	3459.11	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
1599.31	3459.11	85.16	85.16	85.16	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1950.86	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.47	Wt. n-Val.		0.040	

W.S. Elev (ft)	1950.40	Reach Len. (ft)	85.16	85.16	85.16
Crit W.S. (ft)		Flow Area (sq ft)		4090.06	
E.G. Slope (ft/ft)	0.005875	Area (sq ft)		4090.06	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	1530.32	Top Width (ft)		1530.32	
Vel Total (ft/s)	5.48	Avg. Vel. (ft/s)		5.48	
Max Chl Dpth (ft)	5.41	Hydr. Depth (ft)		2.67	
Conv. Total (cfs)	292238.7	Conv. (cfs)		292238.7	
Length Wtd. (ft)	85.16	Wetted Per. (ft)		1533.27	
Min Ch El (ft)	1944.99	Shear (lb/sq ft)		0.98	
Alpha	1.00	Stream Power (lb/ft s)	3459.11	0.00	0.00
Frctn Loss (ft)	0.49	Cum Volume (acre-ft)		3394.24	
C & E Loss (ft)	0.01	Cum SA (acres)		1591.34	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -389.51

INPUT
Description:
Station Elevation Data num= 191

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
1643.27	1953.97	1655.11	1953.68	1656.65	1953.68	1665.34	1953.43	1665.86	1953.42
1678.64	1953	1699.74	1952.18	1705.85	1952.01	1706.46	1952	1718.87	1951
1728.3	1950	1730.98	1949.73	1736.65	1949.13	1746.78	1948	1753.28	1947.44
1760.91	1947.01	1770.14	1947	1790.98	1947	1800.07	1946.71	1802.51	1946.73
1808.86	1946.71	1809.9	1946.7	1811.23	1946.64	1813.78	1946.48	1815.69	1946.44
1821.4	1946	1825.08	1946	1837.55	1946.76	1841.88	1947	1869.5	1947
1880.46	1946.69	1880.69	1946.7	1887.51	1946.6	1898.4	1946.95	1905.44	1946.93
1913.41	1946.94	1926.69	1947	1957.1	1947	1958.46	1946.99	1966.06	1946.99
1972.57	1947	2074.18	1947	2076.52	1946.94	2088.79	1946.85	2099.06	1946.79
2113.54	1946.96	2118.21	1946.96	2121.6	1946.98	2123.42	1946.97	2126.96	1947
2219.84	1947	2222.11	1947.15	2226.71	1947.25	2230.38	1947.31	2233.81	1947.26
2236.02	1947.24	2243.12	1947.25	2245.23	1947.27	2249.29	1947.33	2251.97	1947.36
2254.78	1947.37	2282.62	1947.99	2295.37	1947.99	2301.15	1948	2313.8	1948
2318.76	1948.2	2322	1948.3	2340.34	1949	2347	1949.06	2347.6	1949.06
2354.43	1949	2357.52	1948.91	2359.32	1948.88	2363.55	1948.85	2366.34	1948.77
2377.05	1948.73	2385.27	1948.36	2389.69	1948.17	2393.07	1948	2401.61	1947.88
2407.09	1947.82	2408.8	1947.79	2413.65	1947.68	2417.39	1947.61	2424.58	1947.53
2430.76	1947.51	2437.74	1947.47	2444.83	1947.4	2455.11	1947.67	2455.8	1947.65
2458.08	1947.76	2458.51	1947.74	2460.06	1947.79	2464.49	1947.89	2468.09	1947.95
2472.09	1947.96	2476.4	1947.89	2478.96	1947.8	2488.74	1947.54	2490.99	1947.46
2501.02	1947.27	2508.09	1947.03	2523.41	1946	2550.79	1946	2557.25	1946.46
2565.55	1947	2584.07	1947	2590.14	1946.87	2606.29	1946.54	2629.97	1946
2642.95	1945.55	2643.7	1945.52	2649.09	1945.35	2654.88	1945.16	2656.61	1945.11
2661.13	1945	2665.43	1945	2669.58	1944.85	2678.81	1944.65	2684.65	1944.53
2720.87	1944.65	2734	1944.7	2778.94	1944.86	2782.79	1944.88	2796.29	1945
2808.91	1946	2827.27	1946	2828.04	1946.01	2835.22	1946.01	2871.61	1946.6
2885.91	1946.83	2889.39	1946.87	2892.22	1946.89	2903.73	1947	2944.74	1947
2947.86	1947.53	2950.24	1948	2956.49	1948.31	2961.52	1948.5	2969.1	1948.83
2974.13	1948.96	2976.12	1948.98	2976.58	1948.96	2978.32	1949	2985.41	1949
2992.7	1948.99	2998.6	1948.99	3003.11	1948.92	3019.24	1948.69	3021.71	1948.7
3032.47	1948.77	3040.93	1948.85	3042.77	1948.86	3056.93	1949	3059.93	1949.01
3060.99	1949	3132.99	1949	3137.65	1949.92	3138.25	1950	3142.13	1950.45
3143.64	1950.59	3145.38	1950.68	3148.71	1950.64	3152.73	1950.44	3153.22	1950.4
3158.61	1950.05	3160.63	1949.89	3162.42	1949.73	3164.11	1949.54	3167.79	1949.09
3168.41	1949	3244.82	1949	3255.49	1949.05	3257.68	1949.05	3268.65	1949.08
3273.49	1949	3279.27	1949	3288.63	1948.67	3299.85	1948.29	3306.44	1948.11
3308.39	1948	3324.29	1947.82	3326.44	1947.8	3341.57	1947.98	3344.83	1948
3350.07	1948.67	3352.49	1949	3360.25	1950	3363.11	1950.45	3367.2	1951
3368.66	1951.71								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
1643.27	.045	1643.27	.04	3368.66	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
1643.27	3368.66	110.31	110.31	110.31	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1950.36	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.44	Wt. n-Val.		0.040	
W.S. Elev (ft)	1949.93	Reach Len. (ft)	110.31	110.31	110.31
Crit W.S. (ft)		Flow Area (sq ft)		4227.06	
E.G. Slope (ft/ft)	0.005614	Area (sq ft)		4227.06	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	1608.24	Top Width (ft)		1608.24	
Vel Total (ft/s)	5.30	Avg. Vel. (ft/s)		5.30	
Max Chl Dpth (ft)	5.40	Hydr. Depth (ft)		2.63	
Conv. Total (cfs)	298959.4	Conv. (cfs)		298959.4	
Length Wtd. (ft)	110.31	Wetted Per. (ft)		1609.09	
Min Ch El (ft)	1944.53	Shear (lb/sq ft)		0.92	

Alpha	1.00	Stream Power (lb/ft s)	3368.66	0.00	0.00
Frctn Loss (ft)	0.46	Cum Volume (acre-ft)		3386.11	
C & E Loss (ft)	0.07	Cum SA (acres)		1588.27	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -499.82

INPUT
Description:
Station Elevation Data num= 309

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
1641.47	1954	1648.42	1953.8	1673.69	1953.02	1676.55	1953	1681.25	1952.77
1696.01	1952	1696.66	1951.98	1714.7	1951.64	1723.38	1951.47	1724.16	1951.47
1734.74	1951.28	1735.1	1951.28	1744.86	1951.03	1748.93	1951	1760.93	1950.38
1768.04	1950	1768.87	1949.94	1772.86	1949.78	1775.47	1949.69	1782.81	1949.58
1788.96	1949	1798.28	1948	1800.32	1947.56	1803.78	1947	1807.1	1946.06
1807.7	1945.93	1812.37	1945	1815.63	1945	1816.68	1945.02	1823.1	1945.24
1836.72	1946	1851.65	1946.01	1860.86	1946.01	1871.76	1946.02	1877.68	1946.02
1886.59	1946.03	1891.41	1946.03	1894.4	1946.02	1904.03	1946.02	1912.11	1946.56
1913.37	1946.56	1916.96	1946.76	1921.91	1947	1946.52	1947	1956.28	1946.71
1960.13	1946.63	1962.28	1946.61	1969.23	1946.68	1974.62	1946.93	1976.74	1946.92
1981.07	1947	2004.85	1947	2008.7	1946.98	2016.92	1947.01	2023.54	1946.99
2032.89	1947.05	2036.56	1947.1	2040.84	1947	2043.93	1947.01	2052.07	1947.01
2060.35	1947.02	2064.42	1947.01	2078.21	1947.01	2092.09	1947	2097.98	1946.97
2104.17	1947	2244.51	1947	2249.08	1947.01	2254.57	1947.01	2265.73	1947.04
2272.76	1947.03	2282.09	1947.03	2299.64	1947	2392.66	1947	2392.9	1946.99
2417.42	1946.99	2421.89	1947	2424.23	1947.06	2425.81	1947.12	2444.95	1947.98
2447.29	1947.98	2455.56	1947.86	2459.61	1947.87	2468.49	1947.53	2472.89	1947.45
2476.79	1947.4	2479.86	1947.38	2485.85	1947.02	2493.04	1947	2495.91	1946.81
2509.45	1946	2511.93	1945.79	2515.95	1945.4	2519.61	1945	2521.8	1944.7
2528.76	1944.52	2535.5	1944.68	2541.18	1945.18	2551.5	1946	2560.25	1946.3
2583.32	1947	2614.17	1947	2621.59	1946.79	2621.98	1946.79	2652.71	1946
2668.94	1946	2677.54	1945.28	2681.01	1945	2682.72	1944.83	2691.76	1944
2701.62	1943.99	2709.85	1943.99	2720.4	1943.98	2727.24	1943.99	2747.56	1943.99
2748.1	1944	2752.94	1944	2793.13	1944.67	2794.04	1944.68	2815.37	1945
2833.38	1945	2836.02	1945.41	2840.85	1946	2845.08	1946.57	2848.55	1947
2868.9	1947	2871.22	1946.87	2874.08	1946.66	2876.25	1946.53	2886.34	1946.4
2898.59	1946	2909.98	1946	2915.55	1946.25	2922.41	1946.55	2933.04	1947
2955.54	1947	2965.5	1947.79	2967.92	1948	2970.03	1948.22	2976.97	1949
2984.05	1949.77	2986.31	1949.84	2988.41	1949.82	2990.72	1949.67	2991.95	1949.63
2997.99	1949	3003.16	1948.18	3004.54	1948	3011.28	1947.49	3018	1947.03
3019.18	1947	3023.2	1947	3027.18	1947.17	3033.44	1947.46	3045.63	1948
3051.96	1948.69	3056.12	1949.1	3061.35	1949.36	3064.46	1949.46	3069.4	1949.37
3077.28	1949.16	3082.09	1949	3089.42	1948.99	3097.06	1948.54	3100.67	1948.34
3105.42	1948.38	3109.77	1948.39	3122.02	1948.28	3135.26	1948.15	3142.09	1948.04
3147.4	1948	3179.29	1947.98	3205.99	1947.94	3261.85	1947.91	3265.89	1948
3268.17	1948	3283.11	1947.73	3286.74	1947.68	3293.34	1947.66	3299.75	1947.66
3300.55	1947.64	3304.05	1947.63	3307.41	1947.59	3310.56	1947.53	3315.97	1947.45
3324.71	1947.48	3337.8	1947.68	3338.04	1947.67	3340.57	1948	3346.89	1948.75
3348.76	1949	3352.79	1949.27	3365.9	1950	3391.73	1950	3394.9	1949.75
3397.73	1949.57	3401.76	1949.35	3405.51	1949.11	3408.6	1949	3418.43	1948.78
3422.17	1948.71	3428.63	1948.5	3430.93	1948.4	3435.78	1948.25	3439.44	1948
3445.18	1947.79	3454.66	1947.49	3458.6	1947.37	3464.11	1947.22	3470.19	1947
3523.88	1946.1	3530.33	1946	3536.48	1946	3539.34	1946.04	3542.22	1946
3691.67	1946	3710.15	1946.29	3721.32	1946.49	3749.22	1947	3789.37	1947
3794.54	1946.85	3797.21	1946.74	3804.67	1946.51	3807.98	1946.38	3813.94	1946.22
3816.34	1946.14	3818.23	1946.13	3824.91	1946.07	3826.5	1946.03	3829.13	1946
3832.67	1946	3836.13	1946.27	3846.45	1947	3858.21	1947.53	3860.56	1947.58
3863.35	1947.68	3866.48	1947.77	3876.48	1947.91	3878.96	1947.97	3881.52	1947.98
3882.25	1948	3899.57	1948.33	3921.84	1948.83	3929.55	1949	3932.06	1949.07
3947.61	1949.42	3957.83	1949.6	3965.89	1949.71	3970.92	1949.55	3987.9	1949
4021.75	1949	4027.41	1948.99	4039.42	1948.99	4055.03	1948.85	4061.1	1949
4096.71	1949	4102.41	1948.99	4124.36	1948.99	4125.95	1949	4136.73	1949
4139.34	1948.99	4141.25	1948.95	4145.47	1949	4233.75	1949	4239.63	1948.99
4246.19	1948.99	4259.75	1948.97	4265.13	1948.98	4277.62	1948.97	4280.98	1948.98
4289	1948.98	4296.9	1948.99	4307.2	1948.99	4309.24	1949	4316.46	1949
4319.13	1948.99	4322.68	1949	4324.72	1949.05	4325.85	1949.05	4330.68	1949.39
4335.25	1949.61	4338.61	1949.76	4345.04	1950	4355.84	1950	4362.66	1949.8
4384.55	1949.43	4409.1	1949	4527.98	1949	4532.94	1948.89	4551.46	1948.42
4562.85	1948.19	4565.15	1948.23	4571.98	1948.52	4577.99	1948.7	4584.15	1948.99
4585.15	1949	4591.45	1949.35	4605.63	1950	4704.5	1950	4707.87	1949.91
4740.72	1949.29	4742.19	1949.28	4753.92	1949.43	4755.52	1949.44	4767.22	1949.72
4776.77	1950	4791.17	1951	4797.12	1951	4819.05	1951.2		

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
1641.47	.045	1641.47	.04	4819.05	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
1641.47	4819.05	58.44	58.44	58.44	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1949.84	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.20	Wt. n-Val.		0.040	
W.S. Elev (ft)	1949.64	Reach Len. (ft)	58.44	58.44	58.44
Crit W.S. (ft)		Flow Area (sq ft)		6243.57	
E.G. Slope (ft/ft)	0.003159	Area (sq ft)		6243.57	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	2770.46	Top Width (ft)		2770.46	
Vel Total (ft/s)	3.59	Avg. Vel. (ft/s)		3.59	
Max Chl Dpth (ft)	5.66	Hydr. Depth (ft)		2.25	
Conv. Total (cfs)	398512.4	Conv. (cfs)		398512.4	
Length Wtd. (ft)	58.44	Wetted Per. (ft)		2772.18	
Min Ch El (ft)	1943.98	Shear (lb/sq ft)		0.44	
Alpha	1.00	Stream Power (lb/ft s)	4819.05	0.00	0.00
Frctn Loss (ft)	0.18	Cum Volume (acre-ft)		3372.85	
C & E Loss (ft)	0.00	Cum SA (acres)		1582.72	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -558.26

INPUT
Description:
Station Elevation Data num= 324

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
1762.13	1951	1770.74	1950.92	1772.74	1950.88	1774.18	1950.87	1776.05	1950.82
1791.21	1950.25	1792.2	1950.2	1797.44	1950	1801.77	1949.6	1807.7	1949
1809.21	1948.83	1815.17	1948	1816.29	1947.73	1820.31	1947	1825.64	1946
1831.06	1945	1832.82	1945.01	1840.37	1945.02	1841.02	1945.01	1844.84	1945.01
1847.56	1945	1848.87	1945.1	1850.03	1945.22	1851.82	1945.33	1852.24	1945.38
1859.11	1945.97	1861.23	1946	1871.82	1946.01	1877.51	1946	1882.92	1946
1886.99	1945.99	1895.47	1945.99	1905.68	1945.69	1915.2	1945.66	1919.61	1945.63
1922.66	1945.63	1935.53	1945.75	1935.58	1945.76	1940.03	1945.81	1945.68	1945.85
1947.12	1945.85	1949.92	1945.78	1950.58	1945.78	1953.68	1945.71	1960.78	1945.66
1967.64	1945.68	1971.16	1945.57	1976.13	1945.91	1977.12	1945.97	1983.01	1946.24
1985	1946.3	1988.55	1946.27	1992.56	1946.21	1994.82	1946.13	1997.99	1946
2007.81	1945.99	2018.08	1946	2032.28	1946	2036.56	1946.13	2054.43	1946.99
2055.8	1947	2219.1	1947	2224.86	1947.01	2251.64	1947.01	2254	1947
2368.74	1947	2369.74	1946.99	2377.03	1946.99	2384.34	1946.76	2384.43	1946.75
2395.88	1946.6	2396.36	1946.59	2401.69	1946.69	2406.17	1946.92	2408.32	1946.94
2410.46	1947	2413.85	1947.32	2419.97	1947.94	2426.67	1948.54	2428.61	1948.7
2433.19	1948.96	2435.15	1949	2435.98	1949.09	2436.87	1949.25	2439.92	1950
2443.99	1950.98	2444.83	1951.16	2449.08	1952	2455.05	1953	2461.27	1953
2466.91	1952.02	2470.72	1951.44	2475.64	1950.78	2481.61	1950	2484.69	1949.59
2484.97	1949.54	2493.83	1946	2496.31	1945	2499.26	1944.17	2500.83	1944
2505.38	1943.62	2508.17	1943.29	2509.33	1943.13	2510.55	1943	2512.88	1943
2514.65	1943.2	2521.39	1944	2529.94	1945	2534.91	1945.28	2546.97	1946
2548.87	1946.09	2551.15	1946.13	2564.92	1946.56	2577.19	1946.87	2580.11	1946.95
2585.81	1946.98	2587.76	1947	2591.56	1947	2601.1	1946.76	2603.76	1946.7
2619.91	1946.36	2625.41	1946.24	2633.17	1946	2634.1	1946	2661.36	1945.39
2673.22	1945.15	2679.34	1945	2682.75	1944.77	2695.15	1944	2701.2	1943.75
2702.47	1943.72	2708.55	1943.49	2721.59	1943.35	2729.1	1943.28	2729.18	1943.29
2734.38	1943.42	2735.41	1943.46	2748.48	1943.9	2751.65	1944	2755.02	1944.07
2763.09	1944.25	2782.59	1944.64	2797.28	1945	2801.14	1945.01	2801.84	1945
2807.13	1945	2811.95	1945.15	2820.56	1945.45	2830.53	1946	2835.69	1946
2855.37	1945	2871.47	1945	2881.49	1945.1	2883.11	1945.13	2909.23	1945.32
2929.09	1945.33	2932.34	1945.49	2940.98	1945.89	2942.15	1946	2945.28	1946.46
2946.65	1946.58	2951.57	1946.96	2953.26	1947.11	2955.11	1947.32	2962.75	1948
3055.85	1948	3057.39	1948.39	3063.6	1950	3070.73	1950	3071.87	1949.98
3073.3	1949.74	3074.37	1949.66	3076.66	1949.44	3079.82	1949	3084.48	1948.41
3087.79	1948	3137.92	1948	3138.33	1947.99	3147.2	1947.87	3176.41	1947.48
3178.35	1947.48	3180.58	1947.46	3209.07	1947.41	3233.18	1947.39	3260.06	1948
3270.94	1948	3298.1	1947.51	3301.93	1947.5	3306.42	1947.45	3312.06	1947.37
3313.92	1947.37	3326.61	1947.18	3337.11	1947.01	3338.25	1947.31	3339.8	1947.52
3340.3	1947.67	3341.15	1947.8	3342.4	1947.83	3342.73	1947.87	3352.19	1947.91
3354.14	1947.91	3356.24	1947.97	3370.08	1947.89	3380.56	1947.74	3385.48	1947.64
3397.25	1947.38	3401.54	1947.23	3405.67	1947.15	3410.16	1947	3490.6	1947
3501.18	1946.88	3512.45	1947	3565.11	1947	3565.21	1946.99	3579.65	1946.41
3582.66	1946.38	3586.8	1946.37	3592.07	1946.37	3595.62	1946.34	3611.21	1946.35
3626.87	1946.37	3628	1946.39	3642.86	1946.11	3648.01	1946.01	3658.7	1946.01
3680.82	1946.82	3684.03	1946.93	3691.43	1947	3694.18	1947	3700.81	1946.78
3721.81	1946.39	3726.14	1946.42	3742.62	1946.33	3744.96	1946.27	3747.15	1946.28
3749.67	1946.25	3754.49	1946.29	3761.31	1946.36	3762.08	1946.36	3765.66	1946.49
3772.17	1946.63	3780.48	1947	3798.94	1947.81	3803.12	1948	3809.56	1948.33
3814.06	1948.51	3816.7	1948.65	3824.69	1949	3856.59	1949	3879.09	1948.99
3903.45	1948.99	3934.69	1949	3940.93	1949	3955.45	1948.89	3956.92	1948.86
3958.18	1948.89	3959.92	1948.87	3962.08	1948.78	3964.75	1948.77	3973.98	1948.28
3975.27	1948.24	3979.25	1948	4111.4	1948	4118.87	1948.2	4120.97	1948.22
4140.14	1948.48	4159.47	1948.81	4171.54	1949	4205.24	1949	4205.31	1948.99
4210.43	1948.94	4219.09	1948.87	4222.85	1948.85	4230.79	1948.73	4236.02	1948.76
4241.59	1948.72	4250.06	1948.65	4258.55	1948.93	4265.41	1948.92	4270.65	1948.9
4296.75	1948.85	4302.78	1948.82	4308.9	1948.85	4343.77	1948.51	4350.24	1948.42
4365.74	1948.24	4384.54	1948	4405.43	1948	4416.08	1948.19	4420.06	1948.23

4424.66	1948.3	4428	1948.36	4439.24	1948.61	4455.3	1948.93	4457.61	1949
4593.34	1949	4598.98	1948.99	4616.13	1948.99	4623.25	1949	4635.56	1949
4637.56	1948.99	4649.27	1948.81	4665.77	1948.55	4683.17	1948.27	4699.61	1948.01
4700.53	1948	4767.68	1948	4774.58	1948.23	4782.34	1948.47	4785.34	1948.58
4791.36	1948.77	4798.01	1949	4809.63	1949.49	4822.14	1950	4828.24	1950.05
4832.68	1950.16	4842.05	1950.28	4847.04	1950.27	4867.37	1950.16	4895.27	1950
4914.09	1950	4919.19	1950.11	4925.85	1950.22	4965.23	1950.99		

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
1762.13	.045	1762.13	.04	4965.23	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
1762.13	4965.23	70.58	70.58	70.58	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1949.65	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.19	Wt. n-Val.		0.040	
W.S. Elev (ft)	1949.47	Reach Len. (ft)	70.58	70.58	70.58
Crit W.S. (ft)		Flow Area (sq ft)		6461.94	
E.G. Slope (ft/ft)	0.003056	Area (sq ft)		6461.94	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	2943.72	Top Width (ft)		2943.72	
Vel Total (ft/s)	3.47	Avg. Vel. (ft/s)		3.47	
Max Chl Dpth (ft)	6.47	Hydr. Depth (ft)		2.20	
Conv. Total (cfs)	405211.0	Conv. (cfs)		405211.0	
Length Wtd. (ft)	70.58	Wetted Per. (ft)		2946.38	
Min Ch El (ft)	1943.00	Shear (lb/sq ft)		0.42	
Alpha	1.00	Stream Power (lb/ft s)	4965.23	0.00	0.00
Frctn Loss (ft)	0.21	Cum Volume (acre-ft)		3364.33	
C & E Loss (ft)	0.01	Cum SA (acres)		1578.89	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -628.84

INPUT
Description:
Station Elevation Data num= 407

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
1778.33	1951	1780.23	1950.99	1781.79	1950.95	1784.32	1950.91	1792.29	1950.71
1820.94	1950	1826.42	1950	1827.45	1949.87	1845.04	1948.69	1853.4	1947.9
1860.64	1947	1865.27	1946.15	1866.05	1946	1871.52	1945.02	1871.74	1945
1873.94	1945.04	1876.19	1945	1877.43	1945.26	1878.27	1945.35	1879.39	1945.42
1881.6	1945.44	1887.86	1945.59	1888.35	1945.61	1889.54	1945.72	1892.13	1945.82
1892.6	1945.87	1894.66	1946	1897.3	1946.03	1903.02	1946.08	1911.44	1946
1916.22	1945.86	1918.4	1945.79	1924.18	1945.55	1924.64	1945.54	1935.89	1945.42
1955.57	1945.2	1958.36	1945.15	1961.04	1945.09	1966.07	1945	2004	1945
2013.77	1945.76	2016.9	1946	2020.72	1946.06	2021.89	1946.07	2023.24	1946.14
2028.58	1946.3	2032.28	1946.24	2041.32	1946.28	2050.7	1946.33	2059.55	1946.43
2066.27	1946.49	2067.17	1946.51	2080.14	1947	2281.65	1947	2284.77	1947.01
2287.52	1947	2290.36	1947.14	2291.67	1947.13	2297.65	1947.11	2304.11	1947.06
2304.26	1947.05	2307.42	1947	2420.08	1947	2421.72	1946.87	2424.65	1946.77
2426.85	1946.73	2428.01	1946.73	2436.3	1946.89	2437.86	1946.91	2439.02	1946.9
2440.33	1946.98	2441.67	1946.97	2447.45	1946.53	2448.46	1946.47	2455.7	1946
2459.31	1945.64	2463.67	1945.22	2466.01	1945.01	2468.14	1944.83	2470.67	1944.63
2475.45	1944.28	2476.53	1944.21	2478.13	1944.08	2478.93	1944	2485.32	1943.78
2488.21	1943.71	2494.11	1943.62	2499.48	1943	2502.78	1942.95	2505.86	1942.98
2506.89	1942.94	2512.12	1943.73	2514.2	1944	2520.13	1944.81	2522.02	1945
2536.55	1946.28	2544.87	1947	2618.22	1947	2619.39	1946.99	2629.56	1946.99
2632.44	1946.9	2641.64	1946.63	2654.72	1946.25	2655.82	1946.23	2661.87	1946.01
2662.8	1946	2674.03	1946	2675.19	1945.98	2678.73	1945.86	2700.09	1945.02
2704.74	1945	2708.26	1944.86	2710.57	1944.75	2714.3	1944.56	2718.08	1944.35
2727.12	1944	2731.24	1943.9	2732.83	1943.85	2751.1	1943.82	2758.56	1943.81
2763.28	1943.86	2786.4	1943.98	2789.11	1944	2794.07	1944.15	2799.01	1944.29
2803.14	1944.42	2813.57	1944.7	2815.61	1944.74	2825.88	1944.99	2826.02	1945
2845.28	1945	2847.06	1944.99	2856.57	1944.99	2865.67	1945	2871.42	1945
2883.27	1944.51	2887.52	1944.34	2896.26	1944.34	2905.84	1944.35	2912.65	1944.44
2921.88	1944.55	2934.18	1944.79	2945.34	1945	2947.79	1945	2949.93	1945.01
2952.27	1945	2967.33	1945	2968.32	1945.28	2973	1946	2975.2	1946.37
2988.02	1947	2994.41	1947.34	2995.24	1947.39	3003.33	1947.84	3006.3	1948
3012.96	1948	3013.06	1947.99	3022.92	1947.69	3024.59	1947.67	3043.99	1947.41
3052.66	1947.3	3057.19	1947.33	3058.77	1947.33	3061.92	1947.35	3073.1	1947.48
3114.58	1947.83	3140.99	1948	3148.96	1948	3160.1	1947.43	3162.99	1947.38
3171.05	1947.21	3176.42	1947.09	3180.05	1947	3214.45	1947	3216.33	1947.34
3219.44	1948	3222.82	1949	3224.66	1949.58	3226.17	1950	3228.17	1950.59
3229.66	1951	3231.54	1951.54	3233.44	1952	3236.47	1952.77	3237.41	1953
3240.57	1953.89	3241.07	1954	3242.23	1954.04	3243.49	1954.01	3243.64	1954.04
3245.64	1953.82	3252.88	1953	3256.86	1952.61	3259.2	1952.29	3260.99	1952
3267.02	1951.04	3267.72	1950.92	3273.29	1950	3274.67	1949.74	3276.8	1949.45
3277.61	1949.31	3279.15	1949	3281.47	1948.98	3284.01	1949	3285.53	1949.11
3288.14	1949.26	3289.23	1949.31	3290.95	1949.32	3292.78	1949.29	3296.72	1949

3298.04	1948.96	3301.21	1948.95	3313.42	1948.96	3314.7	1948.99	3320.76	1948.99
3323.81	1949	3348.93	1949	3349.62	1948.96	3364.73	1948	3368.8	1947.86
3369.08	1947.86	3372	1947.75	3402.59	1947	3619.1	1947	3619.53	1946.99
3649.01	1946.12	3653.58	1946	3665.93	1946	3667.18	1946.05	3688.09	1946.71
3692.01	1946.82	3694.52	1947	3728.22	1947	3731.37	1946.96	3735.64	1946.83
3746.62	1946.56	3746.86	1946.56	3754.3	1946.43	3765.85	1946.01	3766.75	1946.01
3772.32	1946.17	3787.55	1946.63	3787.75	1946.63	3800.5	1946.97	3801.45	1947
3861.39	1947	3864.42	1947.03	3865.49	1947	3872.16	1947	3876.02	1947.13
3877.04	1947.11	3878.44	1947.12	3929.59	1947.58	3945.72	1947.72	3949.28	1947.72
3951.96	1947.71	3984.85	1947.94	3993.58	1948	3995.73	1947.97	4025.94	1947.66
4028.4	1947.69	4035.27	1947.68	4042.39	1947.66	4045.01	1947.64	4051.3	1947.64
4097.67	1947.56	4133.42	1947.49	4134.81	1947.5	4154.15	1947.61	4184.51	1947.79
4184.78	1947.79	4219.12	1948	4232.67	1948	4260.31	1948.13	4289.04	1948.26
4294.24	1948.19	4294.8	1948.19	4306.9	1948.01	4310.75	1947.98	4311.58	1947.96
4319.62	1947.82	4353.17	1948	4428.46	1948	4436.1	1948.14	4445.49	1948.3
4459.34	1948.53	4485.29	1948.93	4487.62	1948.95	4490.71	1948.96	4496.97	1948.96
4500.59	1948.95	4512.79	1948.87	4520.79	1948.81	4524.11	1948.78	4526.02	1948.75
4546.66	1948.71	4571.42	1948.9	4572.6	1948.89	4575.47	1948.92	4576.48	1948.91
4579	1948.91	4580.79	1948.88	4611.92	1948.6	4614.6	1948.59	4623.35	1948.43
4635.66	1948.1	4638.38	1948.03	4642.05	1948	4645.69	1948	4657.34	1947.99
4662.73	1947.98	4685.57	1947.95	4730.07	1947.67	4777.06	1947.45	4778.06	1947.44
4781.12	1947.44	4784.19	1947.46	4784.61	1947.45	4792.54	1947.55	4804.76	1947.7
4808.35	1947.76	4810.17	1947.77	4823.54	1948	4824.77	1948.03	4828.88	1948.11
4832.4	1948.17	4834.7	1948.17	4837.83	1948.22	4840.74	1948.29	4848.69	1948.43
4858.67	1948.47	4871.2	1948.53	4901.17	1949	5262.99	1949	5297.31	1948.48
5309.39	1948.29	5326.25	1948.16	5345.83	1948	5492.2	1948	5493.77	1948.03
5496.06	1948.03	5499.98	1948.07	5525.91	1948.96	5526.91	1949	5528.56	1949.03
5556.47	1949.5	5566.4	1949.66	5568.8	1949.68	5586.18	1949.97	5588.2	1950
5591.79	1950.19	5605.12	1950.73	5608.21	1950.81	5609.98	1950.84	5616.11	1950.89
5621.12	1950.98	5621.89	1951	5627.63	1951.19	5633.41	1951.41	5647.78	1952
5650.45	1952.07	5655.53	1952.27	5657.17	1952.34	5673.23	1953	5678.3	1953.23
5696.42	1954	5719.38	1954.79	5724.69	1954.99	5725.79	1955	5730.87	1955.24
5744.26	1955.8	5748.47	1955.98	5750.53	1956.08	5769.89	1957	5774.91	1957.27
5782.79	1957.65	5789.57	1958	5794.28	1958.32	5804.75	1959	5813.39	1959.53
5820.94	1960	5837.55	1960.77	5841.15	1960.93	5843.05	1961	5846.72	1961.01
5855.55	1961.29	5856.99	1961.33	5880.2	1961.94	5882.72	1962.01	5884.12	1962.06
5887.09	1962.19	5906.26	1963	5918.05	1963.26	5948.85	1963.97	5953.16	1964
5961.91	1964.3	5966.07	1964.33	5972.3	1964.46	5989.52	1964.68	5996.84	1964.77
6012.15	1964.97	6019.47	1964.97	6027.13	1964.99	6034.24	1965	6064.08	1965
6069.27	1964.99	6082.71	1964.99						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
1778.33	.045	1778.33	.04	6082.71	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
1778.33	6082.71	157.98	157.98	157.98	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1949.44	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.15	Wt. n-Val.		0.040	
W.S. Elev (ft)	1949.29	Reach Len. (ft)	157.98	157.98	157.98
Crit W.S. (ft)		Flow Area (sq ft)		7216.59	
E.G. Slope (ft/ft)	0.002814	Area (sq ft)		7216.59	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3649.36	Top Width (ft)		3649.36	
Vel Total (ft/s)	3.10	Avg. Vel. (ft/s)		3.10	
Max Chl Dpth (ft)	6.35	Hydr. Depth (ft)		1.98	
Conv. Total (cfs)	422229.6	Conv. (cfs)		422229.6	
Length Wtd. (ft)	157.98	Wetted Per. (ft)		3650.99	
Min Ch El (ft)	1942.94	Shear (lb/sq ft)		0.35	
Alpha	1.00	Stream Power (lb/ft s)	6082.71	0.00	0.00
Frctn Loss (ft)	0.43	Cum Volume (acre-ft)		3353.25	
C & E Loss (ft)	0.00	Cum SA (acres)		1573.55	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -786.82

INPUT
Description:
Station Elevation Data num= 386

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
1849.48	1949.87	1850.36	1949.91	1852.56	1949.9	1854.08	1949.91	1856.35	1949.87
1859.67	1949.76	1883.05	1949	1883.61	1949	1886.3	1948.9	1892.69	1948.68
1911.62	1948	1914.74	1947.87	1918.26	1947.74	1933.23	1947.23	1939.26	1947
1947.29	1946.27	1950.42	1946	1952.94	1945.97	1955.57	1946	1960.87	1946
1962.02	1946.01	1977.41	1946.01	1978.23	1946	1981.23	1946	1982.51	1945.99
1984.27	1946	1989.51	1946.14	2021.85	1946.99	2022.63	1946.98	2036.15	1946.39
2046.56	1946.33	2055.38	1946.36	2068.93	1946.41	2070.13	1946.44	2071.05	1946.44
2077.33	1946.56	2077.62	1946.57	2084.49	1946.7	2090.66	1947	2096.85	1947
2099.65	1946.92	2101.27	1946.89	2106.92	1946.88	2146.8	1946.11	2153.58	1946.53

2153.91	1946.65	2155.22	1946.81	2157.56	1947	2167.24	1947.04	2170.94	1947.06
2174.25	1947.06	2177.34	1947.07	2183.62	1947.36	2188.56	1947.63	2194.9	1947.99
2198.12	1947.99	2203.33	1947.71	2209.3	1948	2211.24	1948.08	2221.04	1948.31
2226.2	1948.04	2232.14	1948.03	2235.03	1948	2251.82	1947.32	2252.9	1947.3
2261.7	1947.06	2264.68	1947.01	2266.07	1947	2270.01	1947.01	2273.67	1947
2279.41	1947	2289.74	1947.01	2303.41	1947	2306.37	1946.98	2309.55	1947
2330.38	1947.01	2346.5	1947.01	2351.62	1947	2359.42	1947	2367.14	1946.61
2376.52	1946.21	2379.27	1946.11	2383.17	1946	2396.82	1945.51	2397.51	1945.48
2411.7	1945	2422.71	1945	2430.2	1944.86	2433.24	1944.83	2460.38	1944.99
2466.11	1944.99	2502.06	1945	2511.94	1945.51	2521.01	1946	2534.4	1947
2540.71	1947.86	2541.8	1948	2555.64	1948	2560.53	1947.56	2561.16	1947.47
2565.05	1947.1	2566.41	1947	2570.44	1947	2585.64	1946.59	2594.16	1946.39
2611.19	1946	2616.84	1945.81	2618.96	1945.73	2631.48	1945.31	2638.39	1945.13
2641.31	1945.02	2644.77	1945	2688.21	1945	2690.02	1945.07	2708.22	1945.02
2712.73	1945	2726.7	1945	2729.76	1944.9	2737.11	1944.64	2750.41	1944.12
2753.79	1944	2763.98	1943.75	2770.39	1943.6	2772.1	1943.58	2776.35	1943.47
2797.74	1943.22	2805.56	1943.17	2808.51	1943.21	2810.61	1943.22	2811.65	1943.24
2818.54	1943.29	2823.7	1943.34	2834.12	1943.48	2842.77	1943.58	2853.18	1943.64
2862.42	1943.72	2874.38	1943.83	2880.21	1943.89	2892.85	1944	2907.84	1944.36
2908.02	1944.35	2912.76	1944.48	2925.22	1944.53	2941.08	1944.6	2942.17	1944.62
2956.85	1944.81	2961.51	1944.88	2961.94	1944.88	2967.91	1945	3017.39	1945
3025.48	1946	3029.34	1946.64	3029.85	1946.7	3032.91	1947	3096.63	1947
3107.71	1947.45	3117.95	1947.86	3118.92	1947.88	3120.85	1947.86	3122.12	1947.89
3122.9	1947.88	3126.93	1947.94	3132.63	1948	3134.13	1948.06	3138.05	1948.17
3140.13	1948.19	3142.69	1948.13	3145.38	1948	3177.66	1948	3181.75	1947.85
3186.7	1947.81	3191.67	1947.68	3194.33	1947.64	3198.34	1947.55	3208.21	1947.3
3209.9	1947.27	3215.26	1947.35	3225.77	1947.53	3226.62	1947.57	3229.34	1947.64
3230.25	1947.65	3244.84	1947.99	3248.7	1948	3252.45	1948.29	3256.36	1948.57
3260.52	1948.9	3265.25	1949.3	3270.53	1949.5	3273.96	1949.55	3274.04	1949.54
3285.52	1949	3287.56	1948.92	3288.52	1948.92	3290.31	1948.86	3292.68	1948.84
3293.98	1948.8	3310.02	1948.65	3321.66	1948.58	3322.99	1948.58	3328.27	1948.48
3330.84	1948.45	3333.27	1948.47	3342.53	1948.34	3347.33	1948.36	3347.74	1948.35
3352.99	1948.34	3356.03	1948.23	3360.21	1948.07	3361.36	1948	3364.38	1947.75
3373.65	1947	3375.21	1947	3378.15	1947.21	3385.77	1947.74	3387.36	1947.83
3389.8	1948	3391.73	1948.02	3399.26	1948.05	3409.32	1948.14	3414.49	1948.15
3415.18	1948.14	3423.45	1948.32	3432.44	1948.15	3437.56	1948.02	3439.32	1948.02
3441.4	1948	3446.96	1947.77	3450.85	1947.63	3460.49	1947.54	3479.18	1947.28
3485.97	1947	3641.78	1947	3656.88	1946.67	3657.74	1946.66	3665.54	1946.45
3665.97	1946.47	3667.42	1946.45	3684.22	1946	3775.63	1946	3776.45	1945.99
3781.97	1945.99	3785.45	1945.98	3792.68	1945.99	3797.47	1945.99	3803.53	1946
3808.94	1946.15	3809.85	1946.16	3811.44	1946.21	3837.28	1946.85	3843.15	1947
4069.72	1947	4084.94	1947.18	4099.8	1947.34	4100.29	1947.35	4111.77	1947.46
4112.41	1947.47	4134.17	1947.41	4162.43	1947.31	4165.54	1947.22	4171.77	1947.06
4174.37	1947	4342.46	1947	4343.06	1946.99	4348.18	1946.99	4355.78	1946.98
4369.6	1946.98	4372.8	1946.99	4375.86	1946.99	4379.97	1947	4388.67	1947
4410.27	1947.01	4428.44	1947.01	4453.24	1947	4862.34	1947	4873.9	1947.18
4883.64	1947.34	4924.27	1948	4934.49	1948	4978.35	1948.01	5001.51	1948.01
5015.02	1948	5044.97	1948	5105.13	1947.61	5151.72	1947.3	5154.26	1947.29
5156.14	1947.27	5158.76	1947.26	5177.54	1947.16	5186.13	1947.12	5191.91	1947.14
5193.8	1947.11	5196.69	1947.16	5197.68	1947.15	5202.23	1947.2	5203.09	1947.22
5206.75	1947.25	5210.37	1947.32	5212.77	1947.34	5234.45	1947.68	5241.04	1947.78
5252.81	1947.76	5254.45	1947.74	5257.64	1947.75	5258.83	1947.73	5280.74	1947.54
5287.08	1947.5	5331.2	1947.6	5398.18	1947.76	5400.66	1947.77	5433.09	1948
5448.61	1948	5454.06	1948.1	5458.71	1948.18	5503.93	1949	5505.17	1949.02
5507.13	1949.03	5526.04	1949.7	5531.06	1949.86	5534.72	1950	5536.65	1950.03
5537.84	1950.08	5547.19	1950.44	5548.18	1950.47	5557.82	1951	5567.28	1951.55
5574.91	1952	5591.08	1953.02	5607.12	1954	5618.55	1954.55	5627.76	1955
5639.23	1955.81	5643.19	1956	5649.26	1956.51	5655.23	1956.74	5662.1	1957.04
5664.13	1957.15	5666.23	1957.34	5673.24	1957.99	5677.61	1958.33	5687.22	1959
5696.16	1959.75	5699.39	1960	5716.43	1961	5723.31	1961.38	5736.08	1962
5748.62	1962	5756.39	1962.01	5765.88	1962.41	5779.33	1962.37	5780.54	1962.38
5788.53	1962.51	5790.93	1962.58	5791.91	1962.59	5803.77	1963	5807.31	1963.1
5815.59	1963.32	5826.66	1963.7	5831.26	1963.81	5836.23	1964	5836.94	1964
5839.82	1964.09	5844.56	1964.18	5845.18	1964.2	5852.56	1964.31	5858.52	1964.41
5871.62	1964.56	5875.61	1964.61	5876.56	1964.64	5888.16	1964.78	5890.78	1964.83
5899.44	1964.91	5900.4	1964.93	5913.29	1964.94	5913.9	1964.96	5919.79	1964.97
5926.02	1965	5940.54	1965.14	5940.96	1965.14	5947.12	1965.22	5950.65	1965.28
5956.36	1965.36	5957.71	1965.39	5985.87	1965.81	5990.48	1965.86	5998.17	1965.99
5998.58	1965.99								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
1849.48	.045	1849.48	.04	5998.58	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
1849.48	5998.58	217.1	217.1	217.1	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1949.00	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.15	Wt. n-Val.		0.040	
W.S. Elev (ft)	1948.86	Reach Len. (ft)	217.10	217.10	217.10
Crit W.S. (ft)		Flow Area (sq ft)		7312.05	
E.G. Slope (ft/ft)	0.002623	Area (sq ft)		7312.05	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3577.66	Top Width (ft)		3577.66	
Vel Total (ft/s)	3.06	Avg. Vel. (ft/s)		3.06	
Max Chl Dpth (ft)	5.69	Hydr. Depth (ft)		2.04	

Conv. Total (cfs)	437381.5	Conv. (cfs)		437381.5	
Length Wtd. (ft)	217.10	Wetted Per. (ft)		3578.57	
Min Ch El (ft)	1943.17	Shear (lb/sq ft)		0.33	
Alpha	1.00	Stream Power (lb/ft s)	5998.58	0.00	0.00
Frctn Loss (ft)	0.50	Cum Volume (acre-ft)		3326.90	
C & E Loss (ft)	0.00	Cum SA (acres)		1560.44	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -1003.92

INPUT
Description:
Station Elevation Data num= 373

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
2101.85	1950	2107.25	1950	2113.22	1949.86	2115.26	1949.8	2115.93	1949.77
2116.84	1949.58	2118.01	1949.19	2131.14	1949.01	2132.15	1949	2133	1948.91
2136.03	1948	2137.22	1947.51	2138.62	1946.95	2139.52	1946	2157.12	1946
2160.08	1946.01	2162.35	1946.03	2162.79	1946	2202.88	1946	2211.43	1946.2
2212.22	1946.24	2213.82	1946.29	2218.61	1946.37	2222.55	1946.42	2223.63	1946.44
2231.88	1946.31	2233.37	1946.28	2234.53	1946.28	2239.27	1946.44	2241.12	1946.48
2242.18	1946.54	2254.47	1946.97	2255.58	1947	2257.47	1947	2257.88	1946.98
2266.8	1946.76	2272.51	1946.63	2274.11	1946.63	2275.4	1946.64	2283.89	1946.53
2291.42	1946.41	2299.36	1946.31	2300.32	1946.29	2303.16	1946.26	2304.95	1946.25
2306.82	1946.22	2318.91	1946	2324.61	1946	2332.35	1945.98	2334.7	1945.98
2340.86	1945.99	2345.51	1946	2346.17	1946.01	2348.47	1946.02	2350.03	1946.01
2351.57	1946.01	2352.48	1946	2361.57	1945.97	2390.86	1945.24	2392.83	1945.19
2396.19	1945.12	2398.09	1945.07	2401.41	1945	2419.24	1945	2420.74	1945.17
2435.43	1946	2437.08	1946.27	2437.64	1946.31	2438.56	1946.33	2446.62	1946
2449.4	1945.88	2450.46	1945.85	2452.13	1945.67	2453.03	1945.54	2456	1945
2461.43	1944	2466.35	1943.85	2471.38	1943.58	2477.84	1943.3	2478.65	1943.28
2481.74	1943	2483.45	1942.91	2484.69	1942.94	2490.58	1942.85	2493.42	1942.79
2495.04	1942.79	2502.2	1942.92	2504.52	1942.94	2507.27	1943	2516.89	1943.68
2520.07	1944	2527.41	1944.77	2530.68	1945.11	2532.4	1945.28	2534.54	1945.48
2536	1945.6	2542.19	1945.78	2544.41	1945.9	2545.1	1945.92	2549.19	1946
2569.69	1946	2584.15	1945.25	2586.4	1945.2	2588.7	1945.21	2591.48	1945.02
2592.08	1945	2598.88	1944.53	2604.13	1944	2630.78	1944	2634.98	1944.14
2660.39	1945	2801.84	1945	2802.07	1944.99	2823.9	1944.46	2843.91	1944
2849.17	1943.82	2869.79	1943.09	2873.24	1943	2961.83	1943	2982.82	1943.15
3018.56	1943.41	3042.06	1943.55	3091.11	1943.86	3091.98	1943.86	3107.5	1944
3115.11	1944	3120.49	1945.02	3125.42	1946	3129.96	1946.82	3130.93	1947
3134.62	1947.29	3136	1947.42	3142.7	1948	3143.5	1948.03	3146.81	1948.36
3149.59	1948.57	3150.06	1948.59	3152.88	1948.61	3153.92	1948.65	3155.18	1948.67
3155.94	1948.67	3157.06	1948.69	3158.39	1948.66	3162.74	1948.64	3165.92	1948.46
3166.72	1948.43	3170.74	1948.51	3171.75	1948.48	3172.31	1948.5	3173.93	1948.59
3174.87	1948.62	3175.28	1948.61	3177.3	1948.71	3178.43	1948.65	3178.73	1948.65
3180.95	1948.5	3183.25	1948.3	3185.26	1948	3218.89	1948	3230.82	1948.96
3231.38	1949	3243.76	1949.01	3253.64	1949.01	3253.78	1949	3263.17	1949
3264.76	1948.88	3274.64	1948	3277.27	1947.77	3286.53	1947	3390.6	1947
3396.37	1946.98	3405.14	1947	3433.13	1947	3434.89	1946.99	3436.14	1946.97
3446.23	1946.89	3448.41	1946.91	3459.3	1947	3543.19	1947	3544.67	1946.98
3576.81	1946.64	3597.87	1946.47	3600.39	1946.51	3601.44	1946.51	3604.3	1946.54
3605.1	1946.54	3611.76	1946.51	3616.1	1946.47	3621.28	1946.41	3625.31	1946.33
3626.95	1946.31	3628.24	1946.28	3629.66	1946.29	3646.71	1946.19	3670.52	1946
3779.71	1946	3786.37	1945.81	3787.42	1945.79	3796.02	1945.59	3801.19	1945.48
3808.86	1945.37	3811.47	1945.33	3814.16	1945.31	3816.79	1945.3	3819.27	1945.26
3822.51	1945.23	3827.41	1945.01	3830.4	1945.01	3837.13	1945.42	3841.69	1945.69
3842.19	1945.69	3853.18	1945.73	3862.05	1945.96	3865.58	1946	3868.8	1946.23
3869.72	1946.29	3870.67	1946.33	3871.63	1946.4	3872.84	1946.46	3873.27	1946.51
3873.69	1946.5	3874.06	1946.54	3874.43	1946.52	3874.74	1946.56	3881.23	1946.71
3884.71	1946.76	3885.39	1946.75	3889.72	1946.63	3901.8	1946.3	3904.86	1946.2
3909.29	1946.1	3911.83	1946	3948.66	1946	3949.42	1946.01	3954.56	1946.22
3984.86	1946.99	3985.02	1947	3991.07	1947	4001.12	1946.99	4007.73	1947
4028.39	1947	4032.1	1946.91	4034.89	1946.81	4038.02	1946.65	4048.39	1946
4078.5	1946	4080.26	1946.01	4084.6	1946.01	4085.43	1946.02	4089.16	1946.01
4094.72	1946	4117.62	1946	4117.91	1946.02	4126.09	1946.15	4128.81	1946.19
4131.31	1946.22	4138.17	1946.27	4165.02	1946.09	4179.95	1946	4197.65	1946
4202.13	1946.01	4205.86	1946.01	4208.05	1946.05	4228.17	1946.45	4231.17	1946.47
4235.52	1946.48	4246.47	1946.2	4253.85	1946	4377.53	1946	4392.57	1945.95
4400.7	1945.94	4403.25	1945.94	4406.71	1945.93	4412.13	1945.91	4413.7	1945.91
4435.13	1945.84	4453.7	1945.79	4454.38	1945.78	4515.89	1946	4696.67	1946
4701.16	1946.01	4702.99	1946.01	4707.08	1946.02	4711.39	1946.02	4736.95	1946.41
4739.14	1946.44	4748.77	1946.52	4753.46	1946.58	4762.99	1946.6	4771.6	1946.62
4773.96	1946.62	4780.07	1946.65	4787.05	1946.71	4787.13	1946.7	4796.2	1946.85
4804.24	1947	4898.3	1947	4930.36	1947.17	4980.47	1947.43	5015.04	1947.45
5068.62	1947.11	5069.59	1947.11	5088.53	1947.02	5093.48	1947	5352.34	1947
5358.34	1947.11	5368.71	1947.33	5382.13	1947.6	5387.83	1947.72	5400.26	1948
5407.4	1948.29	5410.48	1948.39	5417.31	1948.63	5427.25	1949	5446.37	1949.67
5453.26	1949.9	5456.87	1950	5481.46	1950.85	5485.3	1951	5511.67	1952
5511.75	1952	5531.29	1952.96	5532.98	1953.06	5548.04	1954	5561.79	1954.74
5566.97	1955	5575.08	1955.44	5583.4	1955.88	5585.46	1956	5589.52	1956.29
5599.25	1957	5605.69	1957.37	5616.59	1958	5629.69	1958.68	5635.82	1959
5643.89	1959.5	5652.78	1960	5670.49	1960.74	5675.4	1960.95	5676.37	1961

5682.9	1961.22	5706.46	1962	5710.96	1962.28	5718.08	1962.68	5723.99	1963
5733.19	1963.54	5741.34	1964	5751.11	1964.45	5761.13	1964.9	5763.08	1965
5767.34	1965.12	5775.83	1965.33	5781.26	1965.45	5791.01	1965.73	5800.21	1966
5801.92	1966	5804.52	1966.01	5809.09	1966.01	5812.32	1966.02	5851.13	1966.02
5853.04	1966.03	5898.11	1966.68	5913.59	1966.89	5914.99	1966.9	5916.67	1966.9
5924.8	1966.97	5926.91	1966.98	5930.36	1966.98	5933.53	1966.95	5935.83	1967
5941.65	1967	5961.41	1966.7	5968.4	1966.6				

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
2101.85	.045	2101.85	.04	5968.4	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
2101.85	5968.4	255.19	255.19	255.19	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1948.50	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.14	Wt. n-Val.		0.040	
W.S. Elev (ft)	1948.36	Reach Len. (ft)	255.19	255.19	255.19
Crit W.S. (ft)		Flow Area (sq ft)		7510.75	
E.G. Slope (ft/ft)	0.002061	Area (sq ft)		7510.75	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3191.54	Top Width (ft)		3191.54	
Vel Total (ft/s)	2.98	Avg. Vel. (ft/s)		2.98	
Max Chl Dpth (ft)	5.57	Hydr. Depth (ft)		2.35	
Conv. Total (cfs)	493448.6	Conv. (cfs)		493448.6	
Length Wtd. (ft)	255.19	Wetted Per. (ft)		3193.36	
Min Ch El (ft)	1942.79	Shear (lb/sq ft)		0.30	
Alpha	1.00	Stream Power (lb/ft s)	5968.40	0.00	0.00
Frctn Loss (ft)	0.55	Cum Volume (acre-ft)		3289.96	
C & E Loss (ft)	0.00	Cum SA (acres)		1543.58	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -1259.11

INPUT
Description:
Station Elevation Data num= 373

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
2003.75	1948	2008.27	1947.9	2028.33	1947.43	2032.38	1947.38	2041.23	1947.32
2041.87	1947.31	2044.56	1947.31	2047.18	1947.3	2047.4	1947.31	2052.36	1947.26
2058.01	1947.21	2059.6	1947.2	2075.61	1947.01	2081.57	1947.01	2086.07	1947
2099.33	1947	2103.63	1946.99	2108.15	1946.9	2125.47	1946.53	2131.77	1946.64
2132.54	1946.61	2134.67	1946.64	2136.74	1946.69	2139.4	1946.82	2142.58	1947
2156.95	1947	2163.49	1946.93	2163.59	1946.92	2173.13	1946.86	2175.14	1946.8
2176.38	1946.79	2178.5	1946.72	2181.25	1946.66	2194.83	1946.15	2195.84	1946.1
2198.68	1946	2204.93	1945.12	2205.67	1945	2206.83	1944.99	2210.85	1944.98
2215.3	1945	2216.62	1945	2237.98	1945.54	2247.17	1946	2295.92	1946
2315.33	1945.54	2324.25	1945.33	2333.39	1945.14	2339.93	1945	2379.56	1945
2393.67	1945.36	2394.04	1945.38	2396.09	1945.43	2404.62	1945.45	2413.4	1945.42
2415.14	1945.39	2420.47	1945.36	2423.28	1945.29	2434.41	1945	2436.88	1944.93
2443.87	1944	2445.1	1943.93	2460.09	1943	2468.66	1942.53	2478.82	1942
2481.73	1941.96	2483.19	1941.95	2488.94	1941.94	2498.31	1941.83	2500.86	1941.79
2505.15	1941.79	2509.94	1941.98	2512.88	1941.98	2518.53	1941.51	2521.22	1941.64
2524.48	1941.93	2526.67	1942.04	2542.23	1943	2542.64	1943.03	2553.59	1944
2562.7	1944.65	2567.83	1945	2572.66	1945	2577.95	1945.01	2611.21	1945.01
2622.55	1945	2625.09	1945	2626.13	1944.97	2637.11	1945	2828.37	1945
2829.18	1944.99	2882.06	1944.19	2886.84	1944	2890.72	1943.94	2891.63	1943.92
2920.59	1943.46	2932.3	1943.28	2935.63	1943.24	2939.69	1943.21	2943.65	1943.14
2944.94	1943.13	2954.23	1943.08	2965.77	1943	3129.79	1943	3147.62	1942.95
3155.06	1942.98	3163.57	1943	3177.82	1943	3178.24	1942.85	3178.75	1943
3181.17	1943.4	3184.14	1944	3189.76	1944.62	3192.17	1945	3195.69	1945.24
3207.02	1946	3229.34	1946.83	3233.51	1947	3291.72	1947	3299.13	1946.97
3302.24	1946.97	3313.9	1946.19	3315.63	1946	3316.15	1946	3320.8	1945.84
3336.5	1945.38	3345.76	1945.13	3350.45	1945	3424.49	1945	3428.89	1945.16
3433.97	1945.14	3436.04	1945.15	3438.1	1945.14	3440.57	1945.14	3442.64	1945.15
3445.87	1945.28	3462.72	1946	3471.45	1946	3472.6	1945.97	3479.96	1945.85
3489.93	1945.79	3500.51	1945.75	3510.23	1945.72	3511.28	1945.73	3532.24	1945.96
3535.25	1946	3580.56	1946	3580.74	1945.99	3600.02	1945.5	3607.22	1945.4
3610.95	1945.36	3618.75	1945.37	3626.59	1945.37	3629.36	1945.34	3632.45	1945.32
3639.33	1945.35	3647.93	1945.4	3658.53	1945.3	3673.56	1945.15	3681.33	1945
3688.34	1945.01	3696.52	1945	3702.36	1945	3708.33	1944.99	3710.42	1944.98
3719.28	1944.96	3721.03	1944.95	3722.87	1944.96	3736.05	1945	3749.47	1945
3769.55	1945.22	3777.95	1945.28	3800.74	1945.05	3802.5	1945.06	3810.38	1945.04
3822.5	1945.02	3827.27	1945.02	3828.65	1945.01	3838.95	1945.02	3839.05	1945.01
3842.61	1945.01	3847.05	1945	3861.62	1945	3862.81	1945.01	3863.98	1945
3914.95	1945	3925.5	1945.97	3925.86	1946	3954.39	1946	3958.69	1945.62
3970.64	1945	4014.84	1945	4024.59	1945.5	4033.94	1946	4059.09	1946
4083.3	1945.51	4090.67	1945.39	4099.26	1945.26	4101.16	1945.24	4105.23	1945.17
4107.62	1945.14	4111.78	1945	4117.18	1945	4137.01	1945.36	4142.48	1945.43
4157.62	1945.72	4170.27	1945.97	4171.59	1946	4196.62	1946	4205.84	1945.39

4211.84	1945	4243.3	1945	4272.17	1944.99	4309.61	1945	4321.4	1945
4325.76	1945.01	4328.46	1945.01	4336.1	1945.15	4349.85	1945.39	4357.26	1945.47
4357.74	1945.48	4367.77	1945.59	4368.2	1945.59	4376.35	1945.7	4377.19	1945.72
4401.23	1946	4412.39	1946.49	4415.17	1946.48	4415.43	1946.49	4421.09	1946.44
4426.08	1946.59	4429.66	1946.58	4433.61	1946.58	4435.43	1946.63	4462.54	1946.93
4463.87	1946.93	4475.76	1946.99	4476.46	1947	4514.29	1947.47	4517.91	1947.53
4525.88	1947.63	4531	1947.7	4531.66	1947.7	4539.56	1947.8	4549.66	1948
4551.58	1948	4562.57	1948.16	4575.39	1948.34	4576.73	1948.35	4583.74	1948.43
4584.24	1948.43	4593.41	1948.53	4600.03	1948.59	4606.21	1948.62	4611.53	1948.65
4622.43	1948.63	4635.59	1948.57	4638.19	1948.56	4645.25	1948.51	4656.73	1948.4
4667.65	1948.31	4669.27	1948.3	4683.48	1948.16	4686.36	1948.14	4700.93	1948
4726.15	1947.76	4726.34	1947.75	4731.25	1947.71	4738.95	1947.63	4786.69	1947.21
4810.61	1947	5144.22	1947	5248.58	1946.05	5250.31	1946.03	5254.17	1946
5378.08	1946	5384.6	1946.06	5388.6	1946.06	5395.02	1946.11	5396.02	1946.11
5407.04	1946.36	5410.55	1946.36	5417	1946.45	5419.45	1946.44	5428.53	1946.64
5434.45	1946.78	5436.88	1946.82	5443.34	1947	5454.41	1947.43	5456.37	1947.52
5458.65	1947.61	5467.36	1948	5477.38	1948.64	5483.35	1949.01	5495.59	1950
5500.39	1950.47	5506.04	1951	5510.92	1951.48	5516.63	1952	5525.37	1952.68
5529.4	1953	5536.94	1953.52	5549.87	1954.44	5556.37	1954.85	5557.41	1954.92
5558.67	1955.06	5569.8	1956	5571.76	1956.18	5580.87	1957	5583.91	1957.3
5593.99	1958	5596.88	1958.21	5603.51	1958.79	5604.38	1958.86	5606.79	1959
5609.9	1959.2	5613.58	1959.46	5613.99	1959.5	5621.53	1960	5623.95	1960.12
5628.21	1960.32	5631.67	1960.44	5634.21	1960.55	5638.5	1960.95	5640.04	1960.95
5647.29	1961	5649.93	1961.09	5658.78	1961.43	5660.03	1961.49	5671.28	1961.92
5672.26	1962	5673.6	1962	5680.96	1962.17	5683.8	1962.15	5685.84	1962.11
5688.92	1962.12	5691.47	1962.19	5697.26	1962.33	5699.96	1962.38	5709.07	1962.84
5714.3	1962.85	5721.05	1962.97	5723.5	1962.97	5724.25	1963	5732.37	1963.29
5757.59	1963.98	5765.21	1963.96	5771.92	1963.99	5773.41	1964	5775.23	1964.05
5791.88	1964.39	5795.59	1964.47	5807.91	1964.84	5813.01	1964.99	5818.13	1964.99
5820.28	1965	5822.93	1965	5828.24	1965.15	5841.85	1965.41	5842.69	1965.44
5844.86	1965.49	5855.65	1965.77	5855.75	1965.78	5865.25	1966	5875.64	1966.23
5880.21	1966.29	5883.81	1966.31	5893.35	1966.17	5905.89	1966.12	5908.56	1966.03
5922.83	1966.02	5923.21	1966	5951.86	1966				

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
2003.75	.045	2003.75	.04	5951.86	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
2003.75	5951.86	245	245	245	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1947.95	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.14	Wt. n-Val.		0.040	
W.S. Elev (ft)	1947.80	Reach Len. (ft)	245.00	245.00	245.00
Crit W.S. (ft)		Flow Area (sq ft)		7394.54	
E.G. Slope (ft/ft)	0.002240	Area (sq ft)		7394.54	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3268.65	Top Width (ft)		3268.65	
Vel Total (ft/s)	3.03	Avg. Vel. (ft/s)		3.03	
Max Chl Dpth (ft)	6.29	Hydr. Depth (ft)		2.26	
Conv. Total (cfs)	473280.6	Conv. (cfs)		473280.6	
Length Wtd. (ft)	245.00	Wetted Per. (ft)		3269.66	
Min Ch El (ft)	1941.51	Shear (lb/sq ft)		0.32	
Alpha	1.00	Stream Power (lb/ft s)	5951.86	0.00	0.00
Frctn Loss (ft)	0.65	Cum Volume (acre-ft)		3246.30	
C & E Loss (ft)	0.00	Cum SA (acres)		1524.65	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -1504.11

INPUT
Description:
Station Elevation Data num= 352

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
2400.92	1948.99	2406.85	1948.99	2409.43	1948.79	2409.97	1948.76	2414.25	1948.67
2414.78	1948.64	2425.24	1948.28	2427.86	1948.06	2428.69	1948	2433.15	1947
2435.69	1946.4	2441.31	1945	2444.85	1944	2447.82	1944	2450.62	1944.38
2451.29	1944.5	2452.62	1945	2461.5	1945.01	2475.87	1945.01	2479.58	1945
2483.74	1945.01	2493.27	1945.01	2499.98	1945	2501.78	1945	2505	1944.11
2505.48	1944	2508.35	1943	2511.42	1941.92	2513.99	1941	2530.67	1940.99
2540.79	1940.98	2567.63	1941	2584.56	1941.63	2587.05	1941.72	2595.07	1942
2598.03	1942.82	2598.74	1943	2602.39	1944	2603.69	1944.37	2604.33	1944.36
2605.13	1944.31	2615.21	1944.9	2616.11	1944.95	2623.3	1944.98	2627.96	1944.98
2635.78	1944.74	2637.03	1944.73	2637.67	1944.71	2639.57	1944.69	2642.16	1944.65
2645.37	1944.59	2650.58	1944.54	2654.15	1944.48	2668.26	1944.2	2670.07	1944.16
2672.64	1944.12	2678.61	1944	2680.3	1944	2682.89	1944.04	2704.87	1944.34
2717.05	1944.47	2719.04	1944.48	2740.63	1944.4	2769.73	1944.3	2784.89	1944
2863.94	1944	2873.4	1944.19	2875.33	1944.24	2879.73	1944.32	2883.46	1944.36
2894.1	1944.23	2894.8	1944.21	2900.54	1944.14	2906.66	1944	2906.98	1944
2908.58	1943.94	2929.04	1943	3155.87	1943	3159.35	1942.94	3161.46	1942.87

3164.52	1942.78	3173.21	1942.54	3175.38	1942.47	3181.26	1942.3	3194.1	1942
3224.58	1942	3235.44	1941.67	3235.51	1941.66	3245.22	1941.63	3254.08	1941.61
3258.82	1941.52	3265.93	1942	3275.18	1942	3277.95	1943	3278.9	1943.33
3280.59	1944	3282	1944.49	3283.67	1945	3285.36	1945.17	3287.53	1945.37
3293.36	1945.92	3299.69	1946.45	3301.53	1946.61	3302.51	1946.71	3304.48	1946.93
3305.17	1947.02	3305.99	1947.02	3321.89	1947.18	3335.97	1947.04	3339.16	1947
3340.86	1946.9	3346.54	1946.5	3349.47	1946.3	3353.53	1946	3380	1946
3383.6	1946.04	3386.34	1946.05	3388.08	1946.03	3389.69	1946	3407.42	1945.57
3412.08	1945.44	3428.61	1945	3465.41	1945	3468.46	1945.81	3472.11	1946.73
3473.25	1947	3477.2	1947.99	3480.28	1948.74	3482.35	1949.25	3483.72	1949.56
3484.24	1949.64	3484.88	1949.69	3485.53	1949.69	3486.08	1949.62	3487.04	1949.57
3487.79	1949.42	3488.74	1949.33	3491.06	1949	3497.78	1948	3504.12	1947
3506.05	1946.71	3510.53	1946	3515.45	1945.99	3517.94	1945.99	3523.39	1945.67
3527.53	1945.45	3528.36	1945.46	3535.49	1945.75	3540.92	1945.99	3543.35	1945.99
3546.1	1946	3549.67	1946.13	3550.73	1946.18	3557.96	1946.35	3572.98	1946.76
3576.4	1946.85	3577.7	1946.86	3578.96	1946.85	3583.9	1946.92	3586.6	1946.83
3587.27	1946.83	3589.01	1946.76	3590.84	1946.67	3601.44	1946	3609.75	1945.67
3610.34	1945.64	3619.82	1945.27	3626.15	1945.02	3631.19	1944.89	3635.94	1944.79
3643.15	1944.61	3669.51	1944	3727.97	1944	3732.19	1944.1	3736.45	1944.18
3738.63	1944.21	3740.09	1944.24	3750.11	1944.25	3755.67	1944.25	3762.27	1944.34
3770.08	1944	3816.46	1944	3827.9	1943.99	3888.58	1943.99	3889.64	1944
3891.64	1944	3944.72	1943.99	4003.43	1943.99	4007.22	1943.85	4019	1943.42
4022.71	1943.49	4026.9	1943.55	4027.93	1943.57	4028.8	1943.57	4039.38	1944
4143.56	1944	4147.57	1944.25	4149.63	1944.36	4160.15	1945	4161.73	1945.12
4162.28	1945.15	4169.46	1945.63	4171.38	1945.68	4173.69	1945.83	4175.49	1945.9
4176.7	1945.91	4179.57	1945.91	4181.44	1945.9	4181.49	1945.89	4191.09	1945.88
4191.53	1945.86	4199.7	1945.9	4201.96	1945.87	4203.27	1945.84	4204	1945.81
4206.15	1945.64	4213.98	1945.01	4214.61	1945	4247.78	1945	4270.35	1945.8
4274.75	1945.98	4277.22	1946.05	4284.96	1946.24	4300.37	1946.57	4318.44	1947
4432.36	1947	4466.86	1947.01	4498.45	1947	4572.69	1947	4579.27	1947.04
4587.22	1947	4630.23	1947	4633.08	1946.99	4645.41	1946.99	4653.42	1946.79
4666.66	1946.47	4671.35	1946.47	4672.01	1946.48	4677.42	1946.43	4678.16	1946.43
4686.59	1946.47	4696.92	1946.53	4699.2	1946.55	4714.84	1946.74	4735.84	1947
4838.49	1947	4854.63	1946.81	4858.51	1946.81	4860.57	1946.8	4875.21	1946.66
4880.11	1946.58	4881.37	1946.57	4885.48	1946.51	4897.58	1946.47	4908.28	1946.45
4911.35	1946.38	4914.37	1946.29	4917.61	1946.25	4918.44	1946.23	4923.22	1946.23
4924.08	1946.22	4926.47	1946.17	4939.91	1946.08	4948.07	1946	5093.25	1946
5168.66	1945.39	5183.64	1945.43	5188.01	1945.48	5194.15	1945.56	5197.5	1945.56
5200.43	1945.57	5209.07	1945.59	5211.88	1945.59	5217.91	1945.58	5223.65	1945.56
5242.59	1945.54	5263.85	1945.51	5264.63	1945.5	5271.23	1945.48	5277.43	1945.47
5285.65	1945.37	5292.74	1945.24	5304.58	1945	5391.13	1945	5396.66	1944.99
5403.51	1944.99	5424.49	1944.96	5454.3	1944.96	5463.54	1944.98	5465.82	1944.98
5476.08	1945	5496.22	1946	5507.68	1947	5509.49	1947.16	5520.34	1948
5523.41	1948.33	5529.55	1949	5536.49	1949.77	5538.91	1950	5548.55	1950.97
5556.98	1952	5560.92	1952.42	5566.44	1953	5568.27	1953.23	5574.49	1954
5578.88	1954.62	5585.56	1955.58	5591.45	1956.43	5595.35	1957	5600.44	1958
5601.94	1958.31	5605.17	1959	5607.15	1959.44	5609.85	1960	5613.08	1960.7
5614.52	1961	5617.29	1961.59	5619.6	1962	5622.09	1962.02	5623.19	1962.01
5625.52	1962.19	5630.87	1963	5633.82	1963.53	5636.95	1964	5651.3	1964
5652.23	1964.01	5674.29	1964.55	5684.14	1964.79	5686.71	1964.87	5687.25	1964.88
5691.25	1965	5741.66	1965	5747.34	1965.12	5748.21	1965.12	5753.6	1965.16
5763.41	1965.22	5765.44	1965.23	5767.81	1965.25	5769.31	1965.27	5773.37	1965.31
5786.53	1965.41	5796.18	1965.49	5800.33	1965.52	5806.52	1965.58	5842.32	1965.87
5858.53	1966	5892.62	1966	5892.94	1966.01	5897.81	1966.01	5902.23	1966.02
5912.25	1966.02	5919.04	1966.01						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
2400.92	.045	2400.92	.04	5919.04	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
2400.92	5919.04	255.22	255.22	255.22	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1947.29	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.19	Wt. n-Val.		0.040	
W.S. Elev (ft)	1947.11	Reach Len. (ft)	255.22	255.22	255.22
Crit W.S. (ft)		Flow Area (sq ft)		6446.84	
E.G. Slope (ft/ft)	0.003203	Area (sq ft)		6446.84	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3031.39	Top Width (ft)		3031.39	
Vel Total (ft/s)	3.47	Avg. Vel. (ft/s)		3.47	
Max Chl Dpth (ft)	6.13	Hydr. Depth (ft)		2.13	
Conv. Total (cfs)	395793.0	Conv. (cfs)		395793.0	
Length Wtd. (ft)	255.22	Wetted Per. (ft)		3034.36	
Min Ch El (ft)	1940.98	Shear (lb/sq ft)		0.42	
Alpha	1.00	Stream Power (lb/ft s)	5919.04	0.00	0.00
Frctn Loss (ft)	0.82	Cum Volume (acre-ft)		3207.38	
C & E Loss (ft)	0.00	Cum SA (acres)		1506.93	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE

REACH: MOJAVE RS: -1759.33

INPUT
Description:
Station Elevation Data num= 321

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
2515.94	1949.37	2524.53	1949.63	2527.06	1949.68	2531.41	1949.37	2534.92	1948
2536.76	1947.32	2537.59	1947	2539.21	1946.32	2541.23	1945.53	2542.67	1945
2543.57	1944.65	2545.2	1944	2547.32	1943.18	2549.98	1942.17	2552.99	1941
2553.91	1940.7	2554.45	1940.55	2555.75	1940	2556.36	1939.76	2558.35	1939
2559.86	1938.36	2561.61	1938.3	2562.7	1938.28	2562.98	1938.29	2567.44	1938.54
2568.61	1938.6	2571.63	1938.79	2574.68	1939	2580.02	1939.52	2582.12	1939.73
2584.7	1940	2609.2	1940.81	2615.81	1941	2621.69	1941.37	2634.45	1942
2642.31	1942.56	2650.51	1943	2667.13	1943.24	2677.59	1943.39	2694.29	1943.62
2702.11	1943.71	2702.42	1943.72	2721.53	1944	2732.45	1944.27	2756.32	1944.85
2758.99	1944.91	2760.22	1944.93	2762.11	1945	2762.81	1945	2763.48	1944.98
2809.83	1944.21	2816.81	1944.13	2821.82	1944.01	2823.95	1944	2825.79	1944
2829.19	1943.94	2832.24	1943.91	2839.63	1943.85	2844.3	1943.8	2922.54	1943.01
2925.18	1943.01	2927.15	1943	2947.7	1942.37	2959.17	1942	2967.74	1942
2979.89	1942.31	2992.24	1942.51	3022.31	1943	3102.83	1943	3110.01	1942.99
3116.89	1942.89	3138.4	1942.87	3159.79	1942.88	3160.32	1942.89	3165.16	1942.85
3173.79	1942.8	3173.9	1942.79	3175.27	1942.79	3176.89	1942.77	3182.73	1942.72
3191.13	1942.64	3198.72	1942.55	3211.23	1942.41	3236.96	1942	3248.49	1942
3254.39	1941.78	3256.71	1941.68	3275.83	1941	3284.26	1941.01	3285.62	1941.01
3293.8	1941.02	3303.5	1941.01	3306.78	1941.01	3307.94	1941	3310.86	1941
3312.8	1941.03	3313.28	1941.03	3315.62	1941	3318.38	1941.01	3328.22	1941.03
3329.85	1941.04	3337.12	1941.02	3341.46	1941	3341.92	1941.06	3349.63	1942
3356.99	1943	3359.67	1943.35	3361.98	1943.63	3365.22	1944	3366.77	1944.03
3368.53	1944.05	3372.47	1944.07	3374.71	1944.13	3384.91	1944.3	3389.08	1944.34
3392.5	1944.36	3396.54	1944.4	3399.03	1944.45	3407.66	1944.61	3412.56	1944.69
3414.81	1944.71	3415.84	1944.7	3417.97	1944.72	3422	1944.72	3422.6	1944.73
3423.69	1944.72	3429.61	1944.6	3444.64	1944.28	3445.08	1944.28	3450	1944.1
3452.7	1944.01	3452.84	1944	3471.71	1944	3476.58	1944.01	3485.71	1944.24
3498.68	1944.55	3502	1944.61	3509.54	1944.54	3520.48	1944.43	3521.48	1944.34
3525.58	1944	3541.9	1944	3544.81	1943.99	3554.61	1943.99	3563.03	1944
3564.87	1944	3566.02	1943.98	3574.85	1943.81	3579.62	1943.83	3586.98	1943.81
3587.76	1943.8	3589.57	1943.82	3591.06	1943.81	3594.06	1943.83	3607.06	1943.71
3607.79	1943.7	3616	1943.61	3632.98	1943.73	3658.4	1943.92	3670.21	1944
3684.12	1944	3690.06	1943.96	3711.33	1943.87	3712.07	1943.87	3717.41	1943.89
3719.07	1943.88	3720.66	1943.86	3732.76	1943.74	3808.51	1943	4007.14	1943
4041.79	1943.45	4042.33	1943.45	4046.05	1943.51	4050.83	1943.58	4061.82	1943.78
4064.75	1943.83	4065.15	1943.83	4068.62	1943.89	4073.95	1943.89	4076.38	1944
4106.23	1945	4132.48	1945	4136.91	1944.99	4144.31	1944.98	4154.75	1944.99
4156.46	1944.99	4156.96	1945	4164.23	1945	4164.67	1945.01	4168.38	1945.01
4173.42	1945.02	4175	1945.02	4177.21	1945.03	4182.6	1945.04	4197.96	1945.25
4213.46	1945.34	4226.33	1945.38	4231.78	1945.41	4234.2	1945.42	4238.14	1945.45
4239.5	1945.45	4240.64	1945.46	4246.71	1945.47	4257.8	1945.56	4265.79	1945.6
4274.29	1945.6	4278	1945.59	4278.1	1945.6	4314.92	1946	4359.66	1946
4379.85	1945.73	4407.22	1945.36	4409.37	1945.36	4418.22	1945.39	4428.73	1945.43
4430.79	1945.43	4431.32	1945.44	4433.15	1945.44	4434.54	1945.45	4457.29	1945.47
4458.37	1945.47	4475.14	1945.57	4501.65	1945.74	4502.83	1945.75	4504.81	1945.78
4507.09	1945.79	4526.95	1945.97	4529.63	1946	4763.25	1946	4769.36	1945.98
4771.27	1945.98	4824.85	1945.3	4827.79	1945.26	4848.33	1945	5209.48	1945
5222.9	1944.68	5223.97	1944.67	5237.5	1944.52	5277.52	1944.01	5278.26	1944
5283.5	1944	5299.08	1943.85	5302.12	1943.83	5303.25	1943.81	5305.44	1943.79
5327.48	1943.58	5340.85	1943.48	5345.71	1943.47	5353.27	1943.45	5368.08	1943.61
5400.11	1944	5401.34	1944	5408.83	1944.22	5424.55	1944.78	5429.31	1944.94
5430.93	1945	5435.73	1945.27	5448.78	1946	5456.66	1946.56	5457.44	1946.62
5462.04	1947	5470.17	1947.74	5473.41	1948	5481.87	1948.82	5483.69	1949
5492.8	1949.86	5494.18	1950	5499.08	1950.26	5511.94	1950.99	5513.98	1951
5516.33	1951.49	5518.62	1952	5520.92	1952.66	5522.62	1953	5525.27	1954
5528.01	1955	5530.51	1956	5533.18	1957	5533.46	1957.1	5536.5	1958
5539.03	1958.77	5543.17	1960	5546.44	1960.81	5547.1	1961	5550.39	1961.22
5551.57	1961.28	5553.26	1961.34	5561.63	1961.81	5565.08	1961.87	5568.9	1961.93
5572.12	1961.96	5574.08	1962	5577.25	1962	5578.31	1961.99	5579.59	1961.99
5580.32	1962	5583.77	1962	5586.33	1962.01	5589.3	1962.03	5595.61	1962.14
5627.85	1962.7	5632.17	1962.76	5643.6	1963	5647.78	1963	5682.76	1963.27
5703.32	1963.43	5713.72	1963.49	5743.23	1963.59	5790.01	1963.77	5816.63	1963.9
5834.21	1963.98	5834.93	1963.99	5836.93	1963.99	5837.88	1964	5839.77	1964
5848.79	1964.07	5857.01	1964.09	5874.56	1964.17	5875.15	1964.17	5917.93	1964.29
5945.27	1964.33								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
2515.94	.045	2515.94	.04	5945.27	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
2515.94	5945.27	280.3	280.3	280.3	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1946.47	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.19	Wt. n-Val.		0.040	
W.S. Elev (ft)	1946.28	Reach Len. (ft)	280.30	280.30	280.30
Crit W.S. (ft)		Flow Area (sq ft)		6339.38	
E.G. Slope (ft/ft)	0.003212	Area (sq ft)		6339.38	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	2913.41	Top Width (ft)		2913.41	

Vel Total (ft/s)	3.53	Avg. Vel. (ft/s)		3.53	
Max Chl Dpth (ft)	8.00	Hydr. Depth (ft)		2.18	
Conv. Total (cfs)	395252.3	Conv. (cfs)		395252.3	
Length Wtd. (ft)	280.30	Wetted Per. (ft)		2915.47	
Min Ch El (ft)	1938.28	Shear (lb/sq ft)		0.44	
Alpha	1.00	Stream Power (lb/ft s)	5945.27	0.00	0.00
Frctn Loss (ft)	0.71	Cum Volume (acre-ft)		3169.92	
C & E Loss (ft)	0.02	Cum SA (acres)		1489.52	

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -2039.63

INPUT
Description:
Station Elevation Data num= 419

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
2228.43	1947	2240.8	1946.44	2245.77	1946.22	2250.2	1946	2259.52	1945.15
2261.01	1945	2261.6	1944.98	2293.38	1944	2295.89	1943.91	2319.91	1943
2326.99	1942.95	2335.27	1942.9	2343.79	1942.95	2348.37	1942.98	2351.98	1942.98
2353.03	1943	2467.07	1943	2485.09	1942.15	2486.62	1942.08	2487.24	1942.1
2487.82	1942.1	2489.44	1942.17	2490.88	1942.21	2491.11	1942.21	2496.01	1942.17
2496.66	1942.16	2506.35	1942.04	2506.98	1942	2508.93	1942	2510.04	1941.97
2511.12	1941.95	2516.46	1941.75	2518.89	1941.67	2520.4	1941.61	2522.27	1941.54
2526.97	1941.36	2530.36	1941.24	2531.89	1941.18	2535.7	1941.05	2537.33	1941
2597.11	1941	2602.99	1941.62	2604.71	1941.79	2606.66	1942	2607.79	1942.11
2609.29	1942.24	2609.65	1942.26	2612.65	1942.51	2613.53	1942.56	2617.09	1942.82
2617.66	1942.82	2618.77	1942.84	2619.84	1942.83	2620.55	1942.83	2621.82	1942.81
2626.22	1942.75	2629.66	1942.97	2630.81	1942.97	2634.44	1942.96	2640.31	1942.96
2649.17	1942.99	2650.47	1942.99	2651.6	1943	2658.82	1943	2689.95	1943.51
2691.01	1943.52	2730.63	1943.93	2730.81	1943.93	2736.04	1943.98	2736.92	1943.99
2740.44	1944.02	2743.8	1944.06	2745.46	1944.04	2747.6	1944	2752.77	1943.95
2753.55	1943.92	2755.7	1943.85	2774.11	1943.5	2774.57	1943.47	2776.96	1943.41
2777.38	1943.39	2780.24	1943.3	2782.95	1943.2	2786.8	1943.07	2787.82	1943.04
2788.94	1943	2843.44	1943	2853.29	1943.15	2872.63	1943.44	2876.21	1943.61
2876.67	1943.61	2880.14	1943.75	2885.33	1944	2894.4	1944.49	2895.65	1944.55
2897.58	1944.63	2906.19	1945	2911.65	1945.03	2912.49	1945.03	2918.52	1945
2919.41	1944.95	2933.8	1944	2949.13	1943.09	2950.57	1943	2953.98	1942.68
2960.9	1942	2966.79	1941.99	2974.22	1941.99	2989.71	1941.66	2990.38	1941.66
2990.42	1941.65	2991.23	1941.65	2997.57	1941.58	2998.1	1941.56	2998.67	1941.56
3005.97	1941.51	3011.53	1941.47	3012.07	1941.46	3013.78	1941.44	3018.82	1941.28
3019.47	1941.27	3022.06	1941.19	3023.64	1941.16	3024.56	1941.16	3026.31	1941.1
3027.11	1941.08	3027.73	1941.08	3028.69	1941.09	3031.39	1941.13	3034.92	1941.16
3040.29	1941.29	3050.65	1941.48	3051.22	1941.5	3052.13	1941.52	3065.72	1942
3071.4	1942.22	3072.74	1942.27	3074.93	1942.36	3077.37	1942.45	3078.47	1942.5
3086.27	1942.8	3092.5	1943	3124.61	1943	3126.39	1942.98	3127.75	1942.93
3132.09	1942.83	3153.94	1942.57	3165.53	1942.44	3166.48	1942.44	3176.21	1942.43
3186.44	1942.41	3187.27	1942.41	3204.91	1942.22	3225.44	1942	3230.4	1942
3233.28	1941.98	3275.32	1941.34	3290.53	1941.11	3295.23	1941.03	3297.26	1941
3371.24	1941	3381.14	1941.44	3383.5	1941.57	3384.43	1941.61	3391.97	1942
3396.09	1942	3396.67	1942.03	3398.19	1942.08	3422.36	1942.99	3426.23	1943
3431.9	1943.01	3440.65	1943.29	3450.28	1943.58	3455	1943.67	3459.57	1943.71
3461.81	1943.75	3465.26	1943.79	3466.55	1943.79	3478.3	1943.92	3483.69	1943.99
3484.48	1943.99	3488.89	1944	3491.18	1944	3492.35	1944.1	3499.34	1945
3502.73	1945.46	3503.42	1945.57	3505.36	1945.85	3506.44	1946	3507.69	1946.15
3514.4	1947	3527.44	1947	3531.73	1946.7	3536.92	1946.34	3540.58	1946.09
3542.37	1946	3554.38	1945.45	3554.78	1945.42	3555.87	1945.36	3559.48	1945.22
3563.29	1945.01	3563.41	1945	3577.8	1944.4	3579.17	1944.33	3588.12	1944
3589.28	1943.97	3590.17	1943.92	3593.7	1943.76	3596.12	1943.63	3605.72	1943
3637.81	1943	3639.29	1943.01	3647.2	1943.01	3655.26	1943	3674.88	1943
3686.92	1943.01	3696.97	1943	3868.06	1943	3881.65	1942.99	3887.71	1942.99
3917.59	1942.46	3918.01	1942.46	3919.65	1942.44	3919.95	1942.44	3928.36	1942.02
3930.17	1942.02	3952.26	1942.85	3952.3	1942.84	3954.77	1943	3976.42	1943
3977.84	1942.99	3980.69	1942.96	3981.09	1942.96	4000.4	1942.36	4006.39	1942.24
4006.93	1942.22	4011.68	1942.01	4011.78	1942	4048.03	1942	4048.55	1942.01
4053.18	1942.03	4053.78	1942.03	4054.34	1942.04	4068.95	1942.04	4074.95	1942.07
4080.76	1942.11	4084.62	1942.1	4107.59	1942.57	4108.74	1942.58	4113.06	1942.69
4113.29	1942.69	4121.03	1942.93	4121.17	1942.94	4122.99	1943	4125.14	1943.22
4132.82	1944	4146.95	1944.41	4153.1	1944.57	4154.46	1944.57	4155.07	1944.59
4155.86	1944.59	4156.34	1944.6	4159.14	1944.6	4181.89	1944.79	4206.09	1945
4223.38	1945	4237.86	1944.85	4252.22	1944.71	4253.49	1944.69	4254.38	1944.67
4255.14	1944.66	4260.7	1944.53	4262.93	1944.51	4264.48	1944.47	4268.04	1944.43
4275.93	1944.26	4280.42	1944.15	4282.18	1944.12	4285.69	1944	4287.54	1944
4315.3	1943.99	4329.81	1943.99	4349.08	1944	4364.74	1944	4376.41	1944.33
4377.6	1944.33	4394.96	1944.55	4430.78	1945	4438.39	1945	4445.33	1944.99
4469.26	1944.99	4473.66	1944.98	4503.63	1944.68	4503.89	1944.67	4507.74	1944.64
4509.64	1944.63	4517.82	1944.55	4529.97	1944.45	4542.27	1944.4	4550.02	1944.39
4566.73	1944.4	4567.51	1944.42	4567.82	1944.41	4568.25	1944.42	4569.98	1944.38
4570.63	1944.39	4578.91	1944.17	4579.15	1944.17	4585.2	1944	4731.56	1944
4739.82	1943.98	4740.84	1943.97	4742.68	1943.96	4745.84	1944	4838.25	1944
4884.33	1943.52	4884.92	1943.52	4895.84	1943.44	4910.94	1943.33	4911.85	1943.33
4912.05	1943.32	4921.06	1943.27	4927.56	1943.23	4929.33	1943.23	4932.53	1943.21
4935.86	1943.2	4938.59	1943.19	4950.05	1943.19	4952.8	1943.17	4955.06	1943.16
5003.47	1943.07	5046.9	1943.09	5074.13	1943	5326.72	1943	5330.43	1943.14
5339.35	1943.48	5353.58	1944	5359.81	1944.36	5370.42	1945	5376.28	1945.47

5383.09	1946	5384.55	1946.11	5393.37	1947	5400.41	1947.78	5402.37	1948
5406.14	1948.42	5411.91	1949	5416.37	1949.46	5421.73	1950	5427.59	1950.66
5430.15	1950.97	5430.61	1951.02	5440.85	1952	5442.61	1952.16	5451.73	1953
5451.82	1953	5456.95	1953.27	5470.45	1954	5471.74	1954.08	5472.92	1954.16
5483.39	1955	5486.95	1955.36	5493	1956	5501.98	1956.99	5502.98	1957.06
5508.08	1957.45	5512.48	1957.77	5515.24	1958	5517.38	1958.13	5517.95	1958.16
5519.51	1958.28	5529.11	1959	5532.96	1959.32	5540.62	1960	5552.42	1960.75
5556.61	1961	5557.06	1961	5564.32	1961.03	5565.34	1961.03	5571.98	1961
5572.2	1961	5577.95	1961.96	5578.14	1962	5600.05	1962	5622.5	1962.27
5623.1	1962.27	5624.19	1962.29	5627.63	1962.31	5637.67	1962.4	5647.29	1962.5
5663.2	1962.67	5664.25	1962.68	5673.1	1962.78	5677.6	1962.84	5677.91	1962.84
5685.9	1962.91	5688.91	1962.94	5691.12	1962.93	5694.38	1962.91	5694.86	1962.91
5699.78	1962.88	5704.44	1962.86	5705.34	1962.85	5710.09	1962.82	5717.79	1962.76
5719.02	1962.74	5719.89	1962.74	5720.55	1962.73	5736.27	1962.57	5746.37	1962.47
5747.09	1962.46	5747.86	1962.46	5750.39	1962.44	5750.93	1962.43	5752.65	1962.42
5753.22	1962.41	5775.85	1962.2	5795.92	1962	5913.41	1962		

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
2228.43	.045	2228.43	.04	5913.41	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
2228.43	5913.41	236.06	236.06	236.06	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1945.75	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.14	Wt. n-Val.		0.040	
W.S. Elev (ft)	1945.61	Reach Len. (ft)	236.06	236.06	236.06
Crit W.S. (ft)		Flow Area (sq ft)		7432.19	
E.G. Slope (ft/ft)	0.002031	Area (sq ft)		7432.19	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3076.35	Top Width (ft)		3076.35	
Vel Total (ft/s)	3.01	Avg. Vel. (ft/s)		3.01	
Max Chl Dpth (ft)	4.61	Hydr. Depth (ft)		2.42	
Conv. Total (cfs)	496999.9	Conv. (cfs)		496999.9	
Length Wtd. (ft)	236.06	Wetted Per. (ft)		3077.24	
Min Ch El (ft)	1941.00	Shear (lb/sq ft)		0.31	
Alpha	1.00	Stream Power (lb/ft s)	5913.41	0.00	0.00
Frctn Loss (ft)	0.51	Cum Volume (acre-ft)		3125.61	
C & E Loss (ft)	0.00	Cum SA (acres)		1470.25	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -2275.69

INPUT
Description:
Station Elevation Data num= 375

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
2174.33	1946.02	2178.06	1946.01	2181.04	1946.01	2181.89	1946	2182.85	1945.93
2184.19	1945.93	2185.95	1945.91	2189.08	1945.84	2206.01	1945.43	2207.61	1945.41
2213.64	1945.28	2216.22	1945.27	2225.01	1945.19	2230.37	1945.16	2230.67	1945.17
2234.82	1945.17	2237.51	1945.19	2237.54	1945.18	2246.16	1945.08	2252.85	1945.11
2257.98	1945.1	2265.96	1945.09	2275	1945.11	2278.97	1945.1	2291.1	1945.08
2293.08	1945.08	2300.83	1945.05	2302.25	1945.05	2313.21	1945.02	2321.64	1945
2326.28	1944.88	2334.35	1944.71	2340.92	1944.47	2342.73	1944.39	2344.68	1944.33
2346.14	1944.27	2351.42	1944	2352.11	1944	2369.28	1943.26	2375.97	1943
2380.51	1942	2391.77	1941.88	2394.89	1941.84	2402.77	1941.93	2409.85	1942
2429.48	1942.01	2438.27	1942.01	2453.5	1942	2460.45	1941.33	2462.82	1941.12
2465.81	1940.91	2469.04	1940.75	2471.24	1940.65	2478.41	1940.36	2488.56	1940
2524.08	1940	2533.09	1940.51	2549.8	1941	2550.98	1941	2559.08	1941.58
2564.02	1941.8	2568.13	1941.97	2568.61	1942	2579.18	1942	2589.1	1941.78
2591.4	1941.7	2607.7	1941	2633.18	1941	2642.34	1941.4	2650.48	1941.68
2657.46	1942	2668.44	1942.64	2674.73	1943	2828.6	1943	2834.65	1943.03
2843.37	1943.03	2913.1	1943.73	2913.36	1943.73	2929.3	1943.87	2934.34	1943.91
2934.72	1943.92	2941.45	1943.95	2942.74	1944	2948.88	1944	2952.86	1943.92
2989.08	1943	3002.15	1943	3007.7	1942.68	3019.26	1942	3035.92	1941.44
3037.69	1941.41	3041.42	1941.29	3042.45	1941.28	3046.35	1941.18	3049.59	1941.17
3051.95	1941.13	3064.7	1941.14	3069.13	1941.1	3081.46	1941.41	3083.93	1941.53
3085.9	1941.55	3094.17	1942	3120.2	1942	3123.47	1942.04	3147.16	1942.31
3147.83	1942.32	3160.45	1942.43	3185.41	1942.52	3203.55	1942.58	3205.52	1942.58
3219.48	1942.51	3239.67	1942.4	3241.74	1942.39	3247.07	1942.34	3264.05	1942.15
3275.99	1942	3276.25	1942	3280.64	1941.74	3295.96	1941	3314.17	1941
3321.31	1940.99	3389.76	1940.99	3409.75	1941	3443.28	1941	3445.05	1941.01
3450.09	1941.01	3454.43	1941	3460.24	1941	3462.71	1941.07	3464.98	1941.1
3468.52	1941.22	3469.92	1941.26	3492.86	1942	3504.17	1942.63	3509.38	1943
3551.79	1943	3555.67	1942.97	3557.86	1943	3576.93	1943	3581.14	1943.21
3589.97	1943.01	3590.22	1943	3682.28	1943	3684.92	1943.03	3688.46	1943.08
3696.09	1943.2	3699.71	1943.27	3744.23	1943.92	3747.9	1943.97	3750.06	1944.01
3764.12	1944.32	3767.42	1944.37	3771.82	1944.41	3781.86	1944.41	3785.44	1944.42
3785.6	1944.41	3795.31	1944.18	3798.87	1944.06	3804.31	1944.01	3807.59	1944
3815.96	1943.87	3819.6	1943.81	3833.05	1943.64	3881.13	1943.01	3884.49	1943

3893.14	1942.31	3898.11	1942	3898.59	1942	3904.36	1941.88	3921.04	1941.61
3929.07	1941.49	3937.19	1941.36	3938.22	1941.35	3943.09	1941.27	3955.17	1941.19
3966.7	1941.08	3971	1941.07	3972.99	1941.09	3975.08	1941.14	3981.62	1941.24
3984.36	1941.31	4010.75	1941.33	4019.67	1941	4073.96	1941	4078.99	1941.07
4112.92	1941.55	4131.22	1941.71	4159.9	1942	4163.24	1942	4165.75	1942.13
4174.18	1942.55	4181.09	1943	4191.88	1943.77	4196.21	1944	4200.02	1944.01
4211.19	1944.01	4216.88	1944.15	4217.73	1944.16	4226.49	1944.11	4236.34	1944.05
4240.06	1944	4251.23	1944	4282	1944.05	4292.24	1944.07	4301.72	1944.05
4318.26	1944.02	4320.17	1944.02	4331.69	1944	4339.7	1943.66	4340.36	1943.65
4347.46	1943.39	4357.62	1943	4396.78	1943	4410.44	1943.26	4410.87	1943.28
4413.83	1943.32	4415.53	1943.36	4423.79	1943.45	4430.46	1943.49	4433.92	1943.63
4434.61	1943.64	4437.92	1943.77	4441.59	1943.88	4444.48	1943.99	4445.33	1943.98
4446.43	1944	4453.28	1944.25	4457.37	1944.41	4466.99	1944.78	4473.15	1945
4534.35	1945	4543.62	1944.9	4552.42	1944.85	4553	1944.84	4555.72	1944.84
4558.3	1944.82	4564.42	1944.75	4582.07	1944.49	4586.62	1944.43	4596.2	1944.37
4604.99	1944.36	4606.02	1944.34	4611.96	1944.28	4613.26	1944.29	4619.88	1944.29
4626.96	1944.24	4627.73	1944.23	4638.88	1944	4641.34	1943.96	4642.86	1943.95
4656.44	1943.77	4666.08	1943.68	4672.02	1943.64	4675.03	1943.65	4680.1	1943.68
4682.6	1943.66	4690.82	1943.67	4699.1	1943.67	4701.92	1943.65	4709.54	1943.64
4718.84	1943.62	4747.2	1943.01	4748.21	1943.02	4803.24	1943.79	4807.44	1943.81
4825.95	1943.81	4835.05	1943.92	4840.09	1944	4903.88	1944	4914.81	1943.78
4928.22	1943.56	4938.55	1943.37	4942.21	1943.31	4943.99	1943.27	4948.66	1943.2
4958.46	1943	4964.83	1942.97	4992.27	1942.32	4999.39	1942.21	5003.56	1942.15
5003.92	1942.16	5006.15	1942.13	5009.75	1942.11	5012.96	1942.14	5016.34	1942.18
5017.11	1942.2	5022.49	1942.25	5063.23	1942.65	5074.71	1942.76	5075.14	1942.76
5084.96	1942.69	5091.51	1942.65	5099.5	1942.62	5129.49	1942.96	5136.56	1942.95
5140.98	1942.96	5145.68	1942.95	5150.21	1942.96	5159.7	1942.96	5175.92	1942.63
5179.34	1942.6	5180.69	1942.6	5191.91	1942.51	5200.29	1942.45	5220.35	1942.45
5240.39	1942.46	5248.65	1942.46	5249.78	1942.47	5270.67	1942.49	5290.79	1942.5
5291.96	1942.49	5296.75	1942.48	5318.23	1942.58	5354.85	1942.81	5362.72	1943
5369.73	1943.32	5384.36	1944	5390.85	1944.42	5399.91	1945	5410.9	1945.72
5419.73	1946.28	5429.79	1947	5440.19	1947.8	5445.81	1948.24	5450.43	1948.59
5455.54	1949	5458.3	1949.25	5466.42	1950	5466.47	1950	5477.64	1951
5487.62	1951.74	5490.65	1952	5495.76	1952.42	5502.71	1953	5503.39	1953.07
5516.98	1954.37	5523.48	1955	5527.58	1955.36	5528.23	1955.43	5534.82	1956
5544.83	1956.87	5547.51	1957.12	5549.42	1957.21	5563.55	1958	5564.04	1958
5565.76	1958.1	5580.88	1959	5586.13	1959.41	5588.19	1959.56	5591.12	1959.8
5593.82	1960	5611.06	1960.99	5633.55	1961.97	5634.37	1962	5696.5	1962
5698.32	1961.95	5701.75	1961.9	5718.01	1961.74	5729.64	1961.68	5742.24	1961.68
5755.36	1961.64	5761.96	1961.6	5769.65	1961.56	5773.09	1961.53	5774.13	1961.53
5776.86	1961.5	5795.95	1961.4	5808.72	1961.33	5809.71	1961.33	5835.52	1961.18
5865.99	1961	5912.91	1961	5919.23	1961.05	5933.05	1961.14	5938.74	1961.14

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
2174.33	.045	2174.33	.04	5938.74	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
2174.33	5938.74	143.48	143.48	143.48	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1945.24	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.15	Wt. n-Val.		0.040	
W.S. Elev (ft)	1945.08	Reach Len. (ft)	143.48	143.48	143.48
Crit W.S. (ft)		Flow Area (sq ft)		7170.82	
E.G. Slope (ft/ft)	0.002326	Area (sq ft)		7170.82	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3114.00	Top Width (ft)		3114.00	
Vel Total (ft/s)	3.12	Avg. Vel. (ft/s)		3.12	
Max Chl Dpth (ft)	5.08	Hydr. Depth (ft)		2.30	
Conv. Total (cfs)	464438.2	Conv. (cfs)		464438.2	
Length Wtd. (ft)	143.48	Wetted Per. (ft)		3114.82	
Min Ch El (ft)	1940.00	Shear (lb/sq ft)		0.33	
Alpha	1.00	Stream Power (lb/ft s)	5938.74	0.00	0.00
Frctn Loss (ft)	0.32	Cum Volume (acre-ft)		3086.04	
C & E Loss (ft)	0.00	Cum SA (acres)		1453.47	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -2419.17

INPUT
Description:
Station Elevation Data num= 384

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
2317	1945	2322.04	1944.99	2326.24	1944.99	2329.14	1945	2333.69	1945
2335.62	1944.96	2341.76	1944.77	2345.44	1944.73	2353.43	1944.51	2355.34	1944.48
2359.93	1944.38	2361.04	1944.34	2370.28	1944.1	2373.53	1944	2374.32	1943.97
2380.55	1943.71	2391.37	1943.25	2397.03	1943	2403.28	1942.54	2410.78	1942
2412.16	1941.84	2419.51	1941	2431.56	1940.38	2439.13	1940.02	2440.24	1940
2442.95	1940	2446.54	1939.99	2450.06	1939.99	2455.61	1939.98	2458.66	1939.98
2479.24	1940	2480.54	1940.01	2484.88	1940.22	2485.82	1940.22	2488.31	1940.32

2495.9	1940.67	2500.26	1941	2524.62	1941	2527.55	1940.99	2535.87	1940.99
2536.24	1941	2541.57	1941	2549.4	1941.03	2550.82	1941.04	2556.27	1941.04
2558.89	1941.03	2560.04	1941.03	2564.76	1941.16	2565	1941.15	2569.54	1941.13
2569.65	1941.12	2572.15	1941.12	2576.86	1941	2579	1941	2579.08	1941.01
2599.63	1941.01	2600.24	1941	2645.4	1941	2647.68	1941.14	2647.93	1941.14
2654.58	1941.48	2664.26	1941.99	2684.61	1941.99	2687.65	1942	2708.38	1942
2766.59	1942.59	2797.61	1942.9	2807.67	1943	2859.53	1943	2867.32	1943.07
2867.71	1943.06	2869.08	1943.06	2870.36	1943.07	2882.84	1943.1	2895.22	1943.08
2895.62	1943.07	2897.33	1943.07	2902.18	1943	2941.57	1943	2954.16	1942.11
2957.86	1942	2958.7	1942	2959.31	1942.03	2962.76	1942.28	2965.4	1942.48
2966.87	1942.6	2972.44	1943	3011	1943	3012.38	1942.86	3026.42	1942
3028.42	1941.81	3033.78	1941.76	3039.31	1941.83	3041.25	1942	3046.04	1942.36
3055.78	1943	3076.18	1943	3085.55	1942.5	3090.35	1942	3099.16	1941.35
3100.47	1941.28	3106.9	1941	3134.03	1941	3138.37	1941.01	3139.94	1941.01
3143.97	1941.2	3146.17	1941.22	3149.23	1941.27	3153.59	1941.36	3158.03	1941.44
3165.67	1941.61	3166.69	1941.63	3181.11	1942	3265.33	1942	3269.96	1942.05
3272.27	1942.08	3280	1942.04	3281.32	1942.04	3288.96	1942.01	3290.52	1942
3308.31	1941	3310.79	1940.88	3328.52	1940	3368.55	1940	3375.59	1940.13
3378.03	1940.17	3410.59	1940.88	3416.06	1941	3517.09	1941	3540.59	1941.79
3544.69	1941.94	3546.44	1942	3547.05	1942.08	3554.33	1943	3675.99	1943
3689.2	1942.72	3695.43	1942.48	3698.61	1942.38	3700.23	1942.32	3701.02	1942.3
3703.47	1942.21	3704.87	1942.17	3708.25	1942.14	3708.76	1942.16	3712.6	1942.14
3716.65	1942.17	3718.48	1942.2	3748.74	1942.79	3749.43	1942.81	3759.1	1943
3837.02	1943	3844.92	1942.73	3849.09	1942.67	3856.07	1942.55	3856.84	1942.54
3860.5	1942.45	3863.19	1942.39	3863.69	1942.39	3883.24	1942	3964.56	1942
3997.43	1941.62	4001.91	1941.58	4002.17	1941.57	4004.42	1941.55	4035.25	1941
4110.33	1941	4115.76	1941.15	4121.18	1941.32	4140.04	1941.98	4142.16	1941.98
4143.52	1942	4146.21	1942.18	4147.93	1942.3	4158.97	1943	4252.35	1943
4253.22	1942.99	4254.86	1942.99	4264.96	1942.79	4276.85	1942.56	4279.39	1942.56
4282.44	1942.55	4284.07	1942.54	4285.31	1942.54	4295.51	1942.65	4313.44	1942.94
4315.44	1943	4381.94	1943	4382.72	1942.98	4385.18	1942.9	4385.34	1942.9
4387.64	1942.83	4415.59	1942	4420.33	1942	4435.83	1942.31	4438.1	1942.34
4441.25	1942.36	4442.48	1942.39	4449.66	1942.46	4454.84	1942.57	4463.36	1942.76
4472.34	1943	4476.82	1943.01	4487.04	1943.25	4497.79	1943.48	4499.83	1943.51
4500.98	1943.52	4506.33	1943.59	4506.73	1943.59	4514.22	1943.71	4532.86	1944
4591.53	1944	4605.66	1943.73	4606.55	1943.71	4623.1	1943.39	4623.91	1943.38
4628.21	1943.31	4644.68	1943	4771.16	1943	4771.95	1943.01	4774.5	1943.02
4778.34	1943.13	4789.39	1943.41	4789.75	1943.41	4797.93	1943.58	4807.23	1943.72
4816.56	1943.58	4818.33	1943.55	4818.69	1943.55	4822.15	1943.49	4822.64	1943.49
4828.89	1943.37	4829.82	1943.36	4843.12	1943.04	4847.93	1943	4877.51	1943
4878.86	1943.01	4885.64	1943.04	4897.15	1943.11	4909.85	1943.11	4917.11	1943.15
4919.34	1943.16	4921.33	1943.15	4927.53	1943.39	4938.05	1943.65	4949.82	1943.73
4968.25	1943.44	4970.49	1943.42	4974.71	1943.39	4986.39	1943.03	4987.93	1943.03
4988.21	1943.02	4996.11	1943.02	4996.6	1943.04	5007.06	1943.43	5007.21	1943.44
5027.94	1943.55	5036.75	1943.37	5074.17	1943.47	5075.53	1943.36	5078.63	1943.2
5080.36	1943.13	5082.33	1943.07	5083.7	1943.05	5085.05	1943.05	5086.48	1943.07
5087.56	1943.1	5089.59	1943.17	5093.43	1943.35	5110.29	1943.01	5136.77	1943.01
5142.73	1943	5160.54	1943	5167.16	1942.99	5174.72	1942.99	5186.35	1942.83
5202.76	1942.61	5203.39	1942.62	5215.15	1942.62	5215.87	1942.61	5224.68	1942.67
5235.31	1942.74	5236.01	1942.75	5238.54	1942.73	5241.53	1942.7	5242.26	1942.71
5243.24	1942.7	5253.24	1942.82	5254.04	1942.81	5257.87	1942.85	5262.45	1942.89
5265.31	1942.89	5267.26	1942.92	5268.38	1942.9	5269.74	1942.91	5269.86	1942.9
5271.62	1942.88	5274.54	1942.84	5277.2	1942.79	5299.01	1942.53	5310.3	1942.41
5311.56	1942.4	5312.97	1942.4	5315.18	1942.39	5319.24	1942.39	5321.29	1942.38
5323.42	1942.38	5325.52	1942.37	5340.03	1942.14	5347.76	1942.01	5348.22	1942
5359.54	1942	5366.93	1942.22	5367.13	1942.22	5379.64	1942.66	5389.36	1943
5394.08	1943.22	5409.91	1944	5415.46	1944.39	5424.37	1945	5437.72	1945.71
5442.97	1946	5448.97	1946.28	5464.59	1947	5467.09	1947.23	5476.67	1948
5483.85	1948.65	5487.3	1949	5491.13	1949.53	5494.3	1950	5497.02	1950.41
5500.96	1951	5502.94	1951.33	5506.5	1952	5507.5	1952.02	5512.96	1952.94
5513.42	1953.02	5520.31	1954	5527.54	1955	5533.04	1955.74	5535.28	1956
5544.11	1956.77	5546.99	1957	5551.39	1957.36	5552.74	1957.48	5554	1957.6
5555.26	1957.73	5557.24	1958	5560.56	1958.33	5561.32	1958.4	5568.12	1959
5574.99	1959.48	5582.47	1960	5585.74	1960.15	5594.94	1960.58	5603.83	1960.99
5604.35	1961	5606.46	1961	5634.28	1961.61	5641.71	1961.77	5643.43	1961.77
5648.45	1961.9	5649.85	1961.92	5652.86	1961.98	5654.61	1962	5660.42	1962
5660.83	1961.97	5664.43	1961.77	5671.21	1961.36	5671.96	1961.32	5677.5	1961
5677.95	1961	5682.66	1960.97	5685.62	1960.97	5688.64	1960.95	5692.4	1960.96
5695.07	1960.96	5705.36	1960.77	5726.49	1960.74	5748.06	1960.79	5748.44	1960.79
5751.78	1960.84	5789.84	1960.92	5825.53	1961	5970.86	1961		

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
2317	.045	2317	.04	5970.86	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
2317	5970.86	162.45	162.45	162.45	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1944.91	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.15	Wt. n-Val.		0.040	
W.S. Elev (ft)	1944.77	Reach Len. (ft)	162.45	162.45	162.45
Crit W.S. (ft)		Flow Area (sq ft)		7280.31	
E.G. Slope (ft/ft)	0.002178	Area (sq ft)		7280.31	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3078.71	Top Width (ft)		3078.71	
Vel Total (ft/s)	3.08	Avg. Vel. (ft/s)		3.08	

Max Chl Dpth (ft)	4.78	Hydr. Depth (ft)		2.36	
Conv. Total (cfs)	479942.8	Conv. (cfs)		479942.8	
Length Wtd. (ft)	162.45	Wetted Per. (ft)		3079.59	
Min Ch El (ft)	1939.98	Shear (lb/sq ft)		0.32	
Alpha	1.00	Stream Power (lb/ft s)	5970.86	0.00	0.00
Frctn Loss (ft)	0.37	Cum Volume (acre-ft)		3062.25	
C & E Loss (ft)	0.00	Cum SA (acres)		1443.28	

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -2581.62

INPUT
Description:
Station Elevation Data num= 379

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
2359.44	1946	2362.21	1945.94	2367.91	1945.7	2372.63	1945.53	2373.95	1945.47
2376.12	1945.39	2383.87	1945.09	2385.45	1945	2386.49	1944.97	2392.7	1944.51
2395.38	1944.3	2399.37	1944	2408.68	1943	2413.65	1942	2419.29	1940.85
2423.33	1940	2429.31	1939.96	2442.18	1939.87	2443.63	1939.87	2457.81	1939.67
2468.66	1939.92	2471.98	1940	2506.55	1940	2512.09	1940.01	2527.68	1940.01
2539.95	1940	2551.7	1940	2552.69	1940.01	2601.01	1940.97	2601.49	1941
2660.71	1941	2682.31	1941.25	2683.12	1941.25	2690.34	1941.29	2700.64	1941.36
2729.77	1942	2799.12	1942	2830.69	1942.43	2849.06	1942.67	2849.72	1942.68
2856.12	1942.68	2858.02	1942.69	2858.86	1942.68	2874.38	1942.68	2894.57	1942.26
2908.57	1942.26	2908.92	1942.27	2916.19	1942.27	2939.33	1942.14	2958.64	1942.01
2959.16	1942	2962.31	1942.01	2962.47	1942	3000.56	1942	3006.38	1942.01
3018.1	1942.01	3024.71	1942	3028.5	1942	3046.56	1941.99	3064.34	1942
3067.77	1942	3078.39	1942.59	3079.67	1942.63	3081.41	1942.71	3081.76	1942.7
3082.98	1942.73	3085.17	1942.7	3087.29	1942.58	3092.65	1942.25	3097.42	1941.81
3105.02	1941	3182.28	1941	3188.61	1941.04	3192.28	1941.04	3196.53	1941.03
3200.72	1941.01	3206.16	1941	3208.69	1941	3222.42	1940.98	3231.19	1940.96
3249.02	1940.96	3266.73	1940.97	3268.53	1940.94	3275.46	1940.88	3303.64	1940.61
3305.07	1940.63	3306.96	1940.63	3314.46	1941	3582.11	1941	3583.14	1941.09
3591.06	1942	3592.2	1942.01	3608.37	1942.25	3609.26	1942.26	3627.27	1942.52
3631.23	1942.58	3633.78	1942.61	3636.68	1942.66	3638.41	1942.67	3644.45	1942.78
3645	1942.78	3657.68	1943	3664.47	1943	3675.29	1942.72	3680.58	1942.66
3684.43	1942.61	3695.28	1942.5	3717.1	1942	3717.61	1942.01	3726.66	1942.7
3730.81	1942.72	3736.21	1942.64	3739.92	1942.58	3744.48	1942.4	3754.39	1942
3754.58	1942	3788.51	1941.15	3794.49	1941.01	3795.12	1941	3800.4	1941
3806.3	1941.09	3810.46	1941.16	3814.13	1941.34	3815.35	1941.37	3817.68	1941.45
3819.43	1941.52	3827.81	1942	3835.34	1942.06	3837.67	1942.05	3841.87	1942.05
3847.76	1942.04	3853.83	1942.18	3856.1	1942.16	3860.03	1942.16	3868.49	1942.14
3878.01	1942.05	3880.73	1942	3924.53	1942	4002.57	1941.21	4016.95	1941.01
4017.8	1941	4086.02	1941	4088.8	1941.2	4091.66	1941.32	4093.83	1941.4
4099.03	1941.57	4101.31	1941.66	4109.01	1942	4114.61	1942.45	4120.4	1943
4131.05	1944	4135.31	1944.24	4149.84	1945	4152.36	1945.01	4158.49	1945.02
4161.66	1945.02	4171.27	1945	4178.44	1945	4180.42	1945.01	4182.32	1945
4186.14	1945	4195.81	1944.98	4198.32	1944.99	4227.08	1944.99	4229.37	1944.97
4251.85	1944.84	4258.59	1944.88	4265.94	1944.92	4269.15	1944.92	4271.74	1944.91
4273.91	1944.88	4283.71	1944.81	4292.39	1944.78	4298.26	1944.75	4305.63	1944.46
4312.16	1944.12	4316.7	1944.12	4320.92	1944.13	4326.24	1944.11	4343.87	1944.06
4351.36	1944.06	4365.21	1944.01	4366.63	1944	4375.69	1943.67	4390.36	1943
4397.42	1942.5	4404.39	1942	4407.49	1942	4409.49	1941.99	4436.02	1941.99
4436.36	1941.98	4440.04	1941.76	4445.65	1941.45	4461.71	1941.47	4479.17	1941.52
4497.06	1941.63	4512.92	1941.75	4536.56	1941.94	4539.62	1941.95	4542.03	1941.95
4542.69	1941.97	4545.63	1942.01	4549.22	1942.03	4560.98	1942.23	4562.61	1942.24
4565.97	1942.28	4576.57	1942.37	4580.48	1942.39	4583.63	1942.4	4594.2	1942.51
4595.77	1942.51	4608.33	1942.47	4612.59	1942.48	4618.72	1942.51	4620.01	1942.51
4629.2	1942.6	4635.41	1942.67	4637.64	1942.67	4641.02	1942.7	4643.97	1942.71
4644.36	1942.72	4653.19	1942.7	4654.65	1942.71	4663	1942.69	4704.79	1942.79
4761.58	1942.93	4772.28	1942.97	4778.05	1942.94	4793.44	1942.96	4797.18	1942.92
4842.14	1942.54	4845.64	1942.53	4857.33	1942.49	4858.45	1942.48	4868.41	1942.44
4876.75	1942.41	4882.43	1942.42	4895.3	1942.63	4915.95	1943	5014.78	1943
5030.47	1942.91	5033.7	1942.89	5093.42	1942.78	5139.59	1942.69	5142.3	1942.7
5153.11	1942.75	5159.66	1942.7	5168.99	1942.64	5170.12	1942.64	5172.87	1942.61
5178.41	1942.52	5181.47	1942.52	5183.24	1942.5	5194.96	1942.52	5199.1	1942.51
5201.09	1942.49	5205.78	1942.47	5206.12	1942.46	5220.17	1942.28	5236.54	1942.02
5239.45	1942.02	5240.02	1942.01	5256.42	1942.01	5258.58	1942	5261.82	1942
5268.34	1942.11	5269.1	1942.13	5323.07	1943	5371.11	1943	5393.97	1943.61
5410.78	1944	5416.62	1944.3	5431.57	1945	5437.56	1945.23	5449.42	1945.68
5449.88	1945.69	5461.16	1946	5462.31	1946.02	5483.03	1946.48	5491.22	1946.69
5491.82	1946.7	5502.2	1947	5503.27	1947	5512.65	1947.48	5515.5	1947.65
5520.78	1948	5521.01	1948	5528	1949	5532.11	1949.47	5535.61	1949.78
5538.61	1949.99	5538.75	1949.99	5540.31	1949.42	5541.95	1950	5542.99	1950.35
5544.81	1951	5547.95	1952.16	5550.59	1953	5552.44	1953.64	5553.66	1954
5555.33	1954.52	5558.56	1955.42	5561.37	1956	5564.57	1956.69	5566.23	1957
5568.25	1957.33	5569.76	1957.6	5574.29	1958.31	5576.11	1958.58	5577.85	1958.82
5579.74	1959.04	5581.53	1959.15	5589.53	1959.47	5595.24	1959.72	5597.87	1959.82
5602.14	1960	5607.31	1960.23	5608.8	1960.28	5610.22	1960.41	5610.92	1960.4
5613.27	1960.66	5615.12	1960.61	5616.67	1960.62	5617.51	1960.59	5618.71	1960.5
5625.39	1960.33	5628.89	1960.16	5631.68	1960.13	5633.38	1960.13	5634.95	1960.15
5639.34	1960.53	5642	1960.71	5643.35	1960.84	5645.29	1961	5650.62	1961.22
5659.81	1961.57	5662.91	1961.73	5667.78	1962	5714.8	1962	5722.73	1961.64
5728.81	1961.34	5734.71	1961.01	5735.41	1961	5738.64	1960.69	5746.17	1960

5751.8	1959.84	5753.44	1959.78	5755.72	1959.81	5757.6	1959.78	5760.44	1959.91
5761.16	1959.93	5761.3	1960	5774.35	1960	5777.44	1960.05	5783.71	1960.07
5785.1	1960.09	5792	1960.16	5871.79	1961	5902.6	1961	5903.03	1961.01
5909.92	1961.01	5912.9	1961	5922.71	1961	5923.64	1961.07	5925.58	1961.15
5927.24	1961.2	5928.17	1961.19	5933.01	1961.04	5935.25	1961.01	5935.56	1961.02
5949.59	1961.37	5951.48	1961.42	5952.84	1961.41	5958.88	1961.47	5961.18	1961.42
5966.4	1961.37	5975.89	1961.32	5979.84	1961.26	5989.84	1961.17		

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
2359.44	.045	2359.44	.04	5989.84	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
2359.44	5989.84	238.83	238.83	238.83	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1944.55	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.16	Wt. n-Val.		0.040	
W.S. Elev (ft)	1944.38	Reach Len. (ft)	238.83	238.83	238.83
Crit W.S. (ft)		Flow Area (sq ft)		6917.60	
E.G. Slope (ft/ft)	0.002336	Area (sq ft)		6917.60	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	2854.96	Top Width (ft)		2854.96	
Vel Total (ft/s)	3.24	Avg. Vel. (ft/s)		3.24	
Max Chl Dpth (ft)	4.71	Hydr. Depth (ft)		2.42	
Conv. Total (cfs)	463482.7	Conv. (cfs)		463482.7	
Length Wtd. (ft)	238.83	Wetted Per. (ft)		2855.88	
Min Ch El (ft)	1939.67	Shear (lb/sq ft)		0.35	
Alpha	1.00	Stream Power (lb/ft s)	5989.84	0.00	0.00
Frctn Loss (ft)	0.62	Cum Volume (acre-ft)		3035.77	
C & E Loss (ft)	0.00	Cum SA (acres)		1432.21	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -2820.45

INPUT
Description:
Station Elevation Data num= 355

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
2312.94	1945.75	2313.87	1945.75	2317.83	1945.8	2322.15	1945.81	2323.67	1945.83
2326.82	1945.83	2342.22	1945.76	2343.68	1945.75	2349.52	1945.6	2350.09	1945.6
2354.61	1945.48	2361.69	1945.3	2375.26	1944.99	2380.42	1944.66	2389.18	1944.35
2397.42	1944.03	2399.3	1944	2404.07	1943	2404.1	1943	2409.42	1942
2410.61	1941.74	2412.73	1941.38	2414.71	1941	2416.47	1940.79	2418.16	1940.61
2420.96	1940.35	2423.77	1940.07	2424.99	1940	2428.98	1939.9	2433.58	1939.74
2437.58	1939.59	2441.35	1939.4	2441.54	1939.41	2444.92	1939.26	2445.33	1939.27
2450.77	1939.18	2453.9	1939.15	2465.67	1939.23	2475.35	1939.24	2488.35	1939.24
2493.21	1939.22	2498.42	1939.19	2500.46	1939.19	2507.14	1939.27	2526.03	1939.52
2530.26	1939.62	2546.93	1940	2568.36	1940.48	2576.74	1940.64	2587.11	1940.83
2590.97	1940.88	2592.79	1940.91	2595.2	1940.93	2599.85	1941	2632.47	1941
2656.42	1941.56	2657.94	1941.6	2668.7	1942	2678.01	1942	2684.63	1941.97
2693.36	1941.94	2697.7	1941.91	2708.36	1941.87	2742.8	1941.86	2751.78	1941.76
2754.48	1941.66	2766.23	1941.46	2767.19	1941.49	2770.48	1941.54	2774.33	1941.59
2775.22	1941.61	2782.51	1941.7	2798.33	1941.98	2800.41	1941.98	2807.95	1941.96
2811.7	1941.96	2814.42	1941.97	2819.62	1941.98	2836.89	1941.98	2857.12	1941.99
2857.92	1942	2862.89	1942	2865.21	1942.02	2876.3	1942.05	2886.94	1942.04
2891.89	1942.03	2895.28	1942.04	2897.25	1942.06	2912.75	1942.73	2916.48	1942.83
2917.32	1942.83	2920.23	1942.78	2934.97	1942.74	2938.69	1942.63	2940.45	1942.61
2946.74	1942.48	2951.38	1942.53	2957.96	1942.67	2958.58	1942.69	2968.35	1942.94
2970.42	1943	2986.21	1943	3003.18	1943.01	3012.06	1943.01	3031.25	1943
3060.34	1942.41	3071.96	1942.19	3079.35	1942	3091.81	1941.14	3093.92	1941
3114.78	1940.01	3114.93	1940	3141.41	1939.97	3145.32	1939.97	3150.58	1939.98
3169.67	1939.99	3181.1	1939.74	3182.32	1939.74	3193.8	1939.67	3203.02	1939.66
3212.65	1939.71	3215.35	1939.73	3219.98	1939.78	3220.2	1939.79	3232.26	1939.81
3232.46	1939.82	3237.01	1939.82	3238.21	1939.84	3240.73	1939.82	3243.17	1939.81
3254.42	1939.9	3255.67	1939.9	3272.07	1939.85	3287.16	1939.83	3295.57	1939.83
3301.99	1939.74	3328.82	1939.29	3332.44	1939.22	3341.64	1939.01	3342.57	1939
3353.71	1939	3362.4	1939.53	3370.61	1940	3383.48	1940.39	3387.41	1940.47
3399.73	1940.77	3408.97	1941	3432.75	1941	3434.89	1940.99	3457.29	1940.61
3462.34	1940.52	3476.15	1940.3	3476.42	1940.3	3490.46	1940.03	3492.26	1940
3601.37	1940	3603.68	1940.3	3611.56	1941	3616.04	1941.71	3617.7	1942
3620.08	1942.15	3621.61	1942.23	3628.95	1942.55	3630.26	1942.58	3631.45	1942.57
3634.91	1942.49	3673.33	1942.74	3711.03	1943	3741.98	1943	3757.2	1942.32
3757.85	1942.26	3761.68	1942	3781.28	1942	3786.67	1941.99	3794.26	1941.99
3821.54	1941.28	3827.09	1941.08	3829.53	1941	4021.49	1941	4023.41	1941.03
4025.05	1941.04	4026.84	1941	4051.95	1941	4056.25	1941.73	4060.86	1942.48
4064.16	1943	4066.92	1943.42	4070.41	1943.89	4071.29	1944	4085.23	1944.85
4088.39	1945	4092.93	1945	4101.37	1945.01	4132.27	1945.01	4144.25	1945
4205.66	1945	4227.36	1944.01	4231.22	1943.99	4236.06	1943.98	4239.85	1943.92
4266.8	1943.52	4283.31	1943.34	4288.3	1943.3	4296.11	1943.25	4300.41	1943.24
4318.87	1943.25	4337.11	1943.25	4353.01	1943	4414.56	1943	4419.6	1942.86

4426.24	1942.69	4428.95	1942.63	4448.7	1942.18	4462.23	1942.02	4463.11	1942
4464.58	1942	4476.33	1941.89	4487.79	1941.79	4492.75	1941.66	4493.73	1941.65
4497.95	1941.56	4506.67	1941.4	4511.73	1941.29	4525.88	1941.02	4528.69	1941
4576.54	1941	4593.06	1940.99	4632.06	1941	4699.34	1941	4703.14	1941.05
4729.92	1941.35	4744.11	1941.5	4753.76	1941.58	4761.3	1941.62	4768.59	1941.64
4776.46	1941.67	4778.15	1941.68	4804.56	1941.94	4811.13	1942	5000.08	1942
5005.25	1942.03	5014.2	1942.05	5037.89	1942.47	5051.96	1942.62	5054.45	1942.62
5063.62	1942.64	5069.01	1942.66	5074.85	1942.69	5075.37	1942.7	5080.12	1942.65
5088.35	1942.55	5093.92	1942.5	5095.64	1942.5	5097.64	1942.46	5128.28	1942.3
5156.73	1942.05	5162.09	1942	5303.61	1942	5322.92	1941.85	5325.11	1941.85
5327.39	1941.83	5356.17	1941.92	5377.93	1942	5396.87	1942	5413.71	1941.98
5437.24	1941.98	5447.44	1942	5460.2	1942.43	5461.72	1942.45	5467.5	1942.6
5472.98	1942.66	5479.63	1942.71	5493.59	1942.95	5494.12	1942.95	5496.52	1943
5502.88	1943.1	5515.68	1943.31	5519.96	1943.43	5530.39	1943.75	5538.63	1944
5550.28	1944.37	5554.97	1944.5	5563.01	1944.69	5574.8	1945	5580.17	1945.2
5586.02	1945.33	5594.95	1945.59	5596.19	1945.62	5601.66	1945.7	5604.06	1945.75
5606.94	1945.84	5610.11	1946	5621.19	1946.86	5622.64	1947	5626.63	1948
5630.86	1949	5631.05	1949	5633.07	1949.28	5634.42	1949.45	5638.5	1950
5644.21	1950.8	5645.78	1951	5650.71	1951.67	5654.64	1952.19	5655.95	1952.38
5657.11	1952.58	5658.95	1953	5659.64	1953.13	5664.45	1954	5669.76	1955
5672.26	1955.52	5674.33	1956	5681.56	1957.94	5681.89	1958	5684.22	1958.29
5685.67	1958.42	5693.49	1958.38	5696.51	1958.3	5703.77	1958.28	5707.62	1958.23
5711.55	1958.22	5720.56	1958.31	5724.26	1958.38	5732.03	1958.65	5735.13	1958.71
5735.62	1958.73	5739.4	1959	5740.13	1959	5781.79	1959.62	5795.04	1959.81
5806.52	1960	5810.93	1960.66	5812.71	1961	5819.63	1961.37	5825.58	1961.68
5831.59	1962	5840.16	1962	5845.12	1961.81	5845.3	1961.81	5851.86	1961.54
5853.43	1961.54	5858.97	1961.38	5865.54	1961.39	5872.21	1961.39	5872.68	1961.38
5882.76	1961.57	5903.23	1961.99	5904.34	1962	5907.11	1961.94	5909.29	1961.96
5914.04	1961.97	5914.9	1961.96	5919.92	1961.84	5944.42	1961	5986.52	1961

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
2312.94	.045	2312.94	.04	5986.52	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
2312.94	5986.52	218.54	218.54	218.54	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1943.92	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.18	Wt. n-Val.		0.040	
W.S. Elev (ft)	1943.74	Reach Len. (ft)	218.54	218.54	218.54
Crit W.S. (ft)		Flow Area (sq ft)		6537.58	
E.G. Slope (ft/ft)	0.002941	Area (sq ft)		6537.58	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	2946.78	Top Width (ft)		2946.78	
Vel Total (ft/s)	3.43	Avg. Vel. (ft/s)		3.43	
Max Chl Dpth (ft)	4.74	Hydr. Depth (ft)		2.22	
Conv. Total (cfs)	413015.7	Conv. (cfs)		413015.7	
Length Wtd. (ft)	218.54	Wetted Per. (ft)		2947.78	
Min Ch El (ft)	1939.00	Shear (lb/sq ft)		0.41	
Alpha	1.00	Stream Power (lb/ft s)	5986.52	0.00	0.00
Frctn Loss (ft)	0.65	Cum Volume (acre-ft)		2998.88	
C & E Loss (ft)	0.00	Cum SA (acres)		1416.31	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -3038.99

INPUT
Description:
Station Elevation Data num= 368

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
2312.44	1945	2315.75	1944.99	2320.22	1944.99	2327.58	1945	2329.53	1945
2331.34	1944.82	2332.45	1944.76	2336.42	1944	2339.1	1943.5	2341.16	1943
2344.1	1942.27	2349.65	1941	2350.55	1940.76	2353.07	1940	2359.3	1939.69
2374.05	1939	2378.8	1938.99	2382.29	1939	2394.31	1939	2398.67	1938.99
2403.84	1938.99	2412.32	1938.78	2431.24	1938.32	2434.74	1938.3	2439.22	1938.29
2439.39	1938.28	2440.88	1938.32	2441.88	1938.33	2450.05	1938.5	2473.11	1939
2474.32	1939	2497.48	1939.79	2503.72	1940	2530.08	1940.33	2547.05	1940.54
2549.6	1940.57	2562.31	1940.69	2566.17	1940.73	2569.06	1940.77	2592.7	1940.96
2595.28	1941	2597.68	1941	2612.27	1941.15	2620.6	1941.22	2622.44	1941.24
2624.34	1941.24	2631.07	1941.33	2633.81	1941.32	2641.96	1941.42	2651.99	1941.44
2663.59	1941.49	2674.57	1941.56	2685.44	1941.64	2708.44	1941.68	2727.87	1941.7
2734.46	1941.79	2734.55	1941.78	2749.99	1942	2776.19	1942	2792.67	1941.53
2795.51	1941.46	2801.94	1941.29	2808.26	1941.11	2812.97	1941	2818.61	1941
2823.08	1941.19	2824.06	1941.22	2828.42	1941.41	2848.37	1942	2857.92	1942.43
2859.05	1942.5	2860.17	1942.54	2864.36	1942.71	2866.61	1942.74	2868.32	1942.73
2868.84	1942.71	2877.89	1942.26	2879.46	1942.2	2884.46	1942.17	2888.84	1942.17
2918.44	1943	3045.81	1943	3047.1	1942.99	3050.03	1942.87	3064.03	1942.19
3068.01	1942	3068.17	1942	3075.31	1941.48	3077.73	1941.28	3087.86	1940.42
3090.85	1940.19	3093.2	1940	3093.5	1940	3094.98	1939.92	3106.16	1939
3108.75	1938.78	3110.74	1938.63	3112.11	1938.54	3114.67	1938.41	3115.3	1938.37

3120.88	1938.32	3125.35	1938.29	3126.76	1938.34	3129.57	1938.41	3138.04	1938.67
3139.76	1938.71	3146.77	1938.77	3155.36	1938.86	3156.72	1938.89	3160.23	1938.93
3162.42	1938.94	3162.44	1938.95	3165.59	1939	3262.17	1939	3277.07	1939.59
3280.18	1939.7	3282.55	1939.76	3285.7	1939.86	3292.04	1940	3296.22	1940.14
3296.91	1940.18	3299.07	1940.26	3301.37	1940.38	3310.01	1940.77	3312.35	1940.9
3314.39	1941	3399.04	1941	3403.87	1940.99	3423.32	1940.5	3423.67	1940.49
3429.4	1940.4	3429.61	1940.39	3434.34	1940.33	3438.63	1940.28	3443.85	1940.3
3449.94	1940.33	3450.78	1940.33	3465.63	1940.25	3485.3	1940.12	3490.44	1940
3500.78	1940	3537.12	1939.65	3560.81	1939.43	3562.05	1939.42	3590.02	1939.11
3598.55	1939	3601.09	1939	3603.45	1939.32	3608.4	1940	3612.58	1940.62
3614.65	1941	3618.6	1941.66	3619.37	1941.8	3620.63	1942	3625.39	1942
3625.51	1942.01	3631.15	1942.01	3643.16	1942.02	3648.82	1942.02	3656.76	1942.01
3658.06	1942	3691.3	1942	3699.64	1941.88	3712.5	1941.81	3723.62	1941.76
3733.81	1941.74	3736.66	1941.74	3742.8	1941.7	3750.82	1941.66	3758.77	1941.55
3761.36	1941.53	3775.22	1941.35	3778.83	1941.3	3785.4	1941.22	3798.66	1941
3806.04	1941	3811.83	1940.83	3816.64	1940.68	3822.04	1940.46	3827.08	1940.28
3833.65	1940	3844.77	1940	3851.83	1939.99	3861.46	1939.99	3869.35	1940
3893	1940	3895.28	1940.14	3901.56	1940.54	3909.2	1941	3928.93	1941.02
3941.16	1941.02	3941.55	1941.03	3944.1	1941	3946.99	1941	3947.94	1941.36
3949.94	1942	3951.51	1942.22	3952.6	1942.36	3955.21	1942.56	3957.52	1942.68
3959.98	1942.79	3961.2	1942.82	3965.57	1942.89	3968.92	1942.87	3970.43	1942.82
3971.51	1942.74	3972.82	1942.55	3973.5	1942.47	3974.6	1942.3	3976.06	1942
3978.62	1941	4002.35	1941	4008.02	1941.54	4011.41	1941.9	4012.46	1942.06
4018.31	1943	4133.7	1943	4153.62	1943.01	4193.02	1943.01	4199.82	1943
4213.37	1943	4215.93	1942.95	4229.25	1942.74	4237.85	1942.61	4245.36	1942.52
4249.91	1942.49	4254.49	1942.5	4259.82	1942.57	4259.99	1942.56	4264.49	1942.65
4266.71	1942.71	4269.44	1942.67	4271.08	1942.66	4275.64	1942.77	4281.65	1943
4352.07	1943	4366.14	1942.3	4374.43	1942	4405.44	1942	4410.59	1941.54
4416.45	1941.05	4417.71	1941	4498.31	1941	4501.52	1940.95	4511.69	1940.83
4519.98	1940.73	4520.51	1940.72	4534.8	1940.5	4542.49	1940.39	4548.28	1940.34
4553.6	1940.29	4560.5	1940.2	4585.7	1940	4591.93	1939.98	4595.52	1939.98
4608.79	1939.96	4614.2	1939.96	4659.25	1939.95	4718.85	1939.93	4725.6	1939.92
4727.55	1939.93	4738.05	1939.94	4741.56	1939.95	4748.22	1939.95	4760.23	1939.97
4763.97	1939.98	4771.74	1939.98	4786.04	1940	4798.59	1940.2	4803.65	1940.29
4809.99	1940.38	4819.63	1940.52	4832.45	1940.73	4834.3	1940.75	4841.25	1940.85
4842.93	1940.88	4844.52	1940.89	4845.74	1940.91	4853.87	1941	4855.01	1940.99
4855.9	1941	5515.04	1941	5535.84	1940.99	5571.28	1941	5582.53	1941
5591.83	1941.21	5592.51	1941.22	5605.64	1941.35	5612.43	1941.48	5630.67	1941.95
5632.53	1942	5639.35	1942.34	5651.84	1943	5653.04	1943.02	5656.52	1943.04
5659.05	1943	5664.08	1943	5666.53	1943.32	5672.2	1944	5680.58	1945
5683.63	1945.37	5691.77	1946.32	5697.7	1947	5706.29	1948	5709.68	1948.46
5717.28	1949.55	5720.34	1950	5726.98	1950.96	5727.36	1951.02	5733.16	1952
5734.67	1952.31	5737.86	1953	5741.52	1953.75	5742.69	1954	5747.4	1954.96
5752.25	1956	5756.99	1957	5766.38	1958	5766.47	1958	5774.89	1958.88
5776.1	1959	5790.34	1959	5823.38	1959.63	5826.62	1959.7	5830.4	1959.79
5832.51	1959.83	5840.28	1960	5841.41	1960	5844.27	1960.26	5845.74	1960.42
5849.11	1961	5853.33	1961.76	5854.73	1962	5863.3	1962	5864.34	1961.9
5865.8	1961.74	5870.75	1961.22	5873.38	1960.89	5880.3	1960	5897.93	1959.46
5899.93	1959.44	5904.99	1959.3	5909.71	1959.28	5913.57	1959.19	5918.67	1959.19
5927.42	1959.24	5945.81	1959.4	5947.51	1959.47	5950.63	1959.48	5958.09	1959.78
5958.71	1959.79	5964.01	1960	5968.4	1960.18	5968.55	1960.18	5976.22	1960.45
5984.31	1960.67	5984.65	1960.66	5987.46	1960.67	5990.23	1960.67	5993.73	1960.62
5996.87	1960.62	5999.01	1960.58	6002.79	1960.57	6004.71	1960.53	6006.83	1960.51
6018.33	1960.49	6029.51	1960.5	6031.68	1960.48				

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
2312.44	.045	2312.44	.04	6031.68	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
2312.44	6031.68	248.32	248.32	248.32	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1943.27	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.17	Wt. n-Val.		0.040	
W.S. Elev (ft)	1943.10	Reach Len. (ft)	248.32	248.32	248.32
Crit W.S. (ft)		Flow Area (sq ft)		6796.61	
E.G. Slope (ft/ft)	0.003035	Area (sq ft)		6796.61	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3324.08	Top Width (ft)		3324.08	
Vel Total (ft/s)	3.30	Avg. Vel. (ft/s)		3.30	
Max Chl Dpth (ft)	4.82	Hydr. Depth (ft)		2.04	
Conv. Total (cfs)	406587.0	Conv. (cfs)		406587.0	
Length Wtd. (ft)	248.32	Wetted Per. (ft)		3325.85	
Min Ch El (ft)	1938.28	Shear (lb/sq ft)		0.39	
Alpha	1.00	Stream Power (lb/ft s)	6031.68	0.00	0.00
Frctn Loss (ft)	0.55	Cum Volume (acre-ft)		2965.44	
C & E Loss (ft)	0.01	Cum SA (acres)		1400.58	

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -3287.31

INPUT

Description:

Station Elevation Data num= 361

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
2267.8	1944.99	2271.16	1944.99	2286.18	1944.29	2294.62	1944	2302.03	1943.1
2303.23	1942.95	2311.05	1942	2312.46	1941.77	2316.42	1941	2318.36	1940.57
2320.7	1940	2329.91	1939.25	2332.73	1939	2351.75	1938.41	2353.32	1938.37
2356.34	1938.31	2362.59	1938.16	2364.72	1938.12	2369.03	1938	2411.43	1938
2416.29	1938.24	2427.37	1938.54	2443.69	1938.99	2443.9	1939	2450.31	1939
2461.72	1939.53	2464.02	1939.62	2472.64	1940	2474.14	1940.01	2482.01	1940.25
2489.05	1940.44	2505.13	1941	2754.32	1941	2754.7	1941.01	2800.38	1941.6
2824.95	1941.77	2858.38	1942	2868.13	1942.03	2869.15	1942.03	2876.81	1942
2945.91	1942	2947.84	1942.01	2955.14	1942.07	2992.36	1942.97	2993.98	1943
3004.29	1943	3009.29	1942.82	3011.26	1942.74	3014.17	1942.38	3016.9	1942.02
3017.11	1942	3022.08	1940.87	3023.46	1940.69	3024	1940.64	3028.88	1940.26
3031.68	1939.98	3033.58	1939.73	3038.04	1939	3039.18	1938.78	3042.95	1938
3046.9	1937.17	3048.8	1937.11	3049.84	1937.1	3050.89	1937.15	3052.17	1937.19
3067.84	1938	3103.98	1938.48	3107.55	1938.53	3128.11	1938.8	3136.88	1938.92
3143.69	1939	3208.99	1939	3229.42	1939.17	3229.61	1939.17	3251.92	1939.39
3307.07	1939.98	3312.11	1939.98	3314.29	1939.99	3322.32	1939.99	3323.11	1940
3460.31	1940	3464.59	1939.99	3470.25	1939.92	3473.49	1939.9	3483.23	1939.8
3489.43	1939.71	3506.42	1939.46	3510.73	1939.4	3536.63	1939	3538.68	1939
3546.56	1938.99	3559.82	1938.98	3571.67	1938.98	3573.61	1938.97	3586.88	1938.98
3608.53	1939	3609.37	1939.11	3610.64	1939.19	3612.06	1939.3	3620.39	1940
3626.73	1940.56	3629.87	1940.58	3634.63	1940.59	3638.6	1940.77	3641.48	1940.76
3648.86	1940.72	3658.95	1940.67	3661.26	1940.63	3661.87	1940.61	3678.11	1940.24
3683.27	1940.12	3684.91	1940.09	3688.85	1940	3709.01	1940	3718.1	1940.53
3725.37	1941	3728.78	1941.1	3729.64	1941.12	3733.08	1941.04	3734.59	1941.18
3738.56	1942	3740.28	1942.35	3741.4	1942.56	3742.27	1942.62	3742.41	1942.65
3743.23	1942.61	3747.28	1942.19	3747.79	1942.18	3748.55	1942.13	3750.04	1942.11
3750.55	1942.09	3751.17	1942.03	3751.66	1941.94	3755.65	1941	3770.09	1940.78
3771.37	1940.74	3789.22	1940.15	3793.48	1940	3798.64	1939.99	3813.98	1939.89
3831.27	1939.84	3836.87	1939.98	3839.8	1939.97	3840.91	1939.98	3841.39	1940
3842.53	1940.53	3843.15	1940.77	3843.94	1941	3845.24	1941.35	3846.61	1941.68
3847.92	1941.95	3850.68	1942.41	3853.39	1942.73	3856.03	1942.91	3858.34	1942.93
3860.17	1942.84	3860.62	1942.8	3862.76	1942.54	3866.67	1941.94	3867.48	1941.79
3870.17	1941.27	3871.39	1941	3904.12	1941	3907.52	1940.9	3907.96	1940.9
3915.1	1941	3929.84	1941	3932.94	1940.99	3953.76	1941	3958.14	1941
3958.97	1941.03	3962.13	1941.11	3973.18	1941.49	3980.08	1941.68	3983.88	1941.8
3995.49	1941.93	3995.86	1941.93	3997.53	1941.99	4000.28	1942.01	4000.97	1942
4011.01	1942	4021.24	1942.01	4033.39	1942	4041.64	1942	4051.54	1941.43
4059.21	1941	4059.42	1941	4062.91	1941.22	4065.98	1941.28	4071.15	1941.42
4071.87	1941.43	4087.7	1942	4089.35	1942.14	4092.9	1942.28	4095.24	1942.31
4096.74	1942.35	4097.43	1942.38	4099.75	1942.45	4101.19	1942.48	4102.88	1942.55
4104.35	1942.56	4105.73	1942.63	4106.38	1942.62	4107.06	1942.66	4108.42	1942.64
4109.13	1942.68	4121.93	1942.97	4124.54	1942.97	4135.15	1942.98	4135.55	1942.99
4137.73	1942.99	4144.91	1943	4200.18	1943	4201.24	1943.05	4208.37	1943.41
4209.31	1943.43	4212.71	1943.58	4221.23	1943.61	4226.48	1943.71	4229.94	1943.76
4232.16	1943.68	4236.94	1943.49	4240.85	1943.51	4242.99	1943.39	4250.89	1943
4253.32	1942.97	4256.19	1942.97	4274.37	1942.19	4279.31	1942	4360.82	1942
4361.99	1942.05	4365.1	1942.12	4365.45	1942.12	4374.44	1942.25	4381.65	1942.18
4397.25	1942.58	4409.6	1942.96	4410.74	1943	4414.37	1943	4418.97	1942.59
4426.85	1942	4432.93	1941.42	4437.2	1941	4452.3	1940.39	4455.17	1940.28
4459.04	1940.12	4462.13	1940	4462.47	1940	4485.99	1939.7	4486.68	1939.7
4504.63	1939.49	4515.55	1939.38	4522.44	1939.32	4524.5	1939.31	4555.36	1939
4560.85	1939	4575.64	1939.01	4603.92	1939	4847.22	1939	4903.57	1939.61
4904.34	1939.61	4938.81	1940	4950.05	1940	5018.19	1940.16	5074.94	1940.29
5075.46	1940.29	5087.93	1940.24	5108.69	1940.14	5115.29	1940.11	5134.1	1940.01
5135.37	1940	5139.07	1940	5148.55	1939.96	5196.79	1939.78	5229.82	1939.66
5231.51	1939.65	5254.54	1939.58	5272.75	1939.52	5286.67	1939.48	5287.4	1939.47
5311.01	1939.4	5328.51	1939.35	5332.04	1939.35	5332.86	1939.34	5349.31	1939.34
5367.14	1939.35	5367.51	1939.36	5376.96	1939.36	5380.88	1939.37	5392.66	1939.37
5401.02	1939.38	5436.57	1939.44	5465.31	1939.49	5466.53	1939.5	5475.13	1939.5
5483.91	1939.51	5494.48	1939.49	5505.59	1939.48	5529.88	1939.52	5537.69	1939.53
5545.45	1939.53	5553.13	1939.54	5556.24	1939.54	5562.9	1939.55	5569.67	1939.55
5578.45	1939.56	5607.37	1939.62	5630.19	1939.66	5639.03	1939.67	5643.47	1939.67
5660.36	1939.71	5674	1939.75	5684.46	1939.8	5696.34	1939.85	5699.21	1939.87
5700.23	1939.87	5718.28	1939.99	5721.69	1939.99	5725.51	1940	5741.26	1940.9
5741.9	1940.93	5742.51	1940.92	5744.3	1940.81	5745.22	1940.72	5747.1	1940.48
5749.48	1940	5750.77	1939.99	5752.36	1940	5754.38	1940.51	5756.28	1941
5760.42	1942	5764.5	1943	5767.61	1943.81	5768.74	1943.99	5769.31	1944.01
5779.94	1945.63	5782.28	1946	5788.69	1947	5794.43	1948	5798.41	1948.88
5804.38	1950.17	5808.31	1951	5809.53	1951.27	5817.53	1953	5821.2	1953.68
5823	1954	5827.48	1954.83	5829.36	1955.17	5834.04	1956	5839.59	1957
5846.14	1957.73	5848.77	1958	5862.09	1958.93	5863.15	1959	5969.81	1959
5971.78	1958.71	5977.11	1958	5980.67	1958	5984.11	1959	5986.36	1959.66
5991.13	1960.99								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
2267.8	.045	2267.8	.04	5991.13	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
2267.8	5991.13	382.49	382.49	382.49	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1942.70	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.12	Wt. n-Val.		0.040	

W.S. Elev (ft)	1942.58	Reach Len. (ft)	382.49	382.49	382.49
Crit W.S. (ft)		Flow Area (sq ft)		7991.79	
E.G. Slope (ft/ft)	0.001699	Area (sq ft)		7991.79	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3225.05	Top Width (ft)		3225.05	
Vel Total (ft/s)	2.80	Avg. Vel. (ft/s)		2.80	
Max Chl Dpth (ft)	5.48	Hydr. Depth (ft)		2.48	
Conv. Total (cfs)	543377.3	Conv. (cfs)		543377.3	
Length Wtd. (ft)	382.49	Wetted Per. (ft)		3227.46	
Min Ch El (ft)	1937.10	Shear (lb/sq ft)		0.26	
Alpha	1.00	Stream Power (lb/ft s)	5991.13	0.00	0.00
Frctn Loss (ft)	0.63	Cum Volume (acre-ft)		2923.28	
C & E Loss (ft)	0.00	Cum SA (acres)		1381.91	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -3669.8

INPUT
Description:
Station Elevation Data num= 376

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
2250.05	1943	2258.89	1942.91	2259.2	1942.91	2261.77	1942.81	2263.54	1942.76
2264.93	1942.71	2274.27	1942.43	2287.64	1942	2288.77	1942	2294.31	1941.32
2296.77	1941	2302.45	1940.33	2303.83	1940	2309.47	1940	2316.9	1939.07
2317.84	1938.94	2318.74	1938.84	2325.52	1938	2335.27	1937.51	2339.38	1937.39
2346.35	1937.17	2350.92	1937	2383.76	1937	2394.81	1937.58	2395.81	1937.63
2400.99	1938	2412.39	1938.88	2414.62	1939	2421.32	1939.24	2422.35	1939.28
2433.59	1939.58	2441.46	1939.84	2445.59	1939.93	2447.97	1940	2518.31	1940
2521.58	1939.84	2525.23	1939.7	2527.88	1939.61	2530.61	1939.54	2533.06	1939.49
2537.11	1939.44	2538.69	1939.44	2540.75	1939.42	2543.46	1939.45	2546.76	1939.51
2548.24	1939.51	2555.95	1939.82	2557.05	1939.85	2558.79	1940	2620	1940
2639.42	1940.15	2642.54	1940.17	2661.87	1940.12	2683.98	1940.05	2685.62	1940.08
2690.61	1940.08	2702.48	1940.29	2702.63	1940.29	2711.39	1940.5	2713.73	1940.56
2714.12	1940.56	2717.37	1940.64	2722.21	1940.75	2725.62	1940.82	2728.81	1940.88
2729.01	1940.89	2732.58	1940.95	2735.06	1941	2859.36	1941	2862.38	1941.06
2874.5	1941.26	2881.11	1941.3	2884.47	1941.31	2901.05	1941.45	2905.55	1941.51
2918.72	1941.61	2927.48	1941.67	2928.89	1941.7	2933.76	1941.76	2936.28	1941.78
2943.96	1941.73	2957.85	1941.6	2958.06	1941.6	2965.72	1941.33	2965.83	1941.33
2975	1941	2978.11	1940.67	2986.22	1939.83	2991.98	1939	2996.72	1938.3
2998.79	1938	3017.49	1937.25	3024.4	1937	3029.16	1937	3032.5	1937.11
3059.84	1937.97	3060.71	1938	3179.05	1938	3197.04	1938.16	3224.58	1938.22
3248.62	1938.27	3249.75	1938.3	3252.02	1938.3	3253.63	1938.32	3257.24	1938.33
3263.6	1938.34	3269.88	1938.41	3273.32	1938.42	3275.94	1938.42	3278.49	1938.43
3287	1938.37	3287.64	1938.37	3294.32	1938.33	3299.94	1938.35	3301.08	1938.34
3307.91	1938.24	3318.93	1938.21	3327.88	1938.16	3334.75	1938.08	3340.22	1938
3468.41	1938	3512.41	1938.61	3515.7	1938.66	3523.57	1938.75	3527.78	1938.79
3539.36	1939	3600.72	1939	3605.42	1939.65	3607.65	1940	3609.98	1940.03
3613.65	1940.05	3615.59	1940.05	3621.99	1940.16	3627.5	1940.21	3631.39	1940.23
3634.17	1940.2	3637.93	1940.14	3645.15	1940	3657.15	1939.91	3659.3	1939.89
3663.49	1939.84	3673.68	1939.71	3675.85	1939.7	3693.51	1939.63	3709.7	1939.63
3718.76	1939.73	3719.37	1939.73	3722.72	1939.64	3732.69	1939.04	3739.1	1939.04
3739.86	1939.03	3743.15	1939.04	3745.18	1939.01	3746.56	1939	3757.82	1939
3773.22	1940.83	3774.69	1941	3802.42	1941	3804.24	1941.11	3805.6	1941
3834.16	1941	3837.1	1940.99	3840.6	1940.99	3847.79	1940.62	3865.6	1940
3870.06	1939.67	3874.58	1939.35	3879.36	1939	3879.63	1939	3881	1938.73
3881.14	1938.72	3884.13	1939	3885.6	1939	3890.78	1938.75	3891.64	1938.69
3900.46	1938.3	3901.44	1938.24	3904.91	1938.1	3906.33	1938.05	3907.57	1938.06
3909.02	1938.18	3910.83	1938.28	3914.86	1939	3917.48	1939.54	3919.24	1940
3923.01	1940.83	3925.45	1941.36	3928.28	1942	3929.89	1942.31	3930.49	1942.4
3931.93	1942.47	3933.11	1942.5	3934.25	1942.47	3936.43	1942.36	3938.33	1942.3
3939.86	1942.21	3941.78	1942.22	3942.5	1942.24	3944.81	1942.34	3945.64	1942.32
3950.2	1942.5	3953.33	1942.53	3962.03	1942	3965.18	1941.66	3967.7	1941.38
3971.36	1941	3998.03	1941	4007.01	1941.65	4011.66	1942	4014.98	1942.32
4022.61	1943	4026.53	1943.09	4030.72	1943.2	4034.48	1943.16	4040.17	1943
4049.85	1942.18	4052.01	1942	4061.76	1941.34	4066.86	1941	4068.46	1940.91
4073.52	1940.71	4076.81	1940.59	4081.33	1940.61	4081.59	1940.59	4083.17	1940.56
4083.6	1940.54	4093.14	1940	4095.69	1939.87	4098.68	1939.67	4099.28	1939.64
4106.25	1939.18	4110.55	1939	4137.81	1939	4144.52	1939.12	4162.65	1939.59
4173.08	1939.84	4178.19	1940	4181.32	1940.25	4186.6	1940.72	4189.8	1941
4190.51	1941.07	4201.36	1942	4318.41	1942	4324.97	1941.65	4337.93	1941.66
4345.29	1941.66	4353.1	1941.65	4354.08	1941.64	4371.36	1941.67	4390.86	1941.73
4396.15	1941.79	4403.93	1941.91	4404.86	1941.91	4406.98	1941.88	4411.96	1941.79
4414.64	1941.65	4415.27	1941.64	4417.36	1941.56	4421.65	1941.41	4422.65	1941.38
4433.14	1941	4448.42	1940.64	4449.48	1940.62	4475.49	1940	4484.9	1939.67
4489.2	1939.53	4499.55	1939.17	4500.6	1939.15	4507.43	1939	4517.1	1939
4522.15	1938.89	4535.25	1938.78	4536.09	1938.78	4581.06	1938.83	4633.11	1938.9
4635.67	1938.91	4637.59	1938.89	4638.74	1938.91	4648.61	1939	4671.7	1939
4675.93	1938.97	4676.56	1938.97	4682.8	1938.93	4691.07	1938.83	4691.22	1938.84
4694.11	1938.8	4697.55	1938.8	4700.98	1938.79	4702.59	1938.77	4717.36	1938.73
4730.82	1938.7	4733.68	1938.71	4737.5	1938.65	4740.76	1938.61	4744.49	1938.65
4766.44	1938.75	4797.65	1938.92	4803.9	1939	4836.69	1939	4870.33	1939.6
4891.36	1939.98	4892.29	1940	5215.75	1940	5347.53	1939.42	5349.27	1939.41

5378.55	1939.01	5379.37	1939	5433.02	1939	5451.9	1939.01	5459.02	1939.01
5470.7	1939	5482.87	1939.01	5493.05	1939.01	5493.22	1939	5641.58	1939
5657.19	1938.99	5662.18	1938.99	5663.6	1939	5707.13	1938.78	5711.92	1938.78
5716.55	1938.79	5734.76	1938.93	5744.1	1939	5778.73	1939	5783.33	1939.01
5789.01	1939	5795.27	1939	5801.63	1939.14	5810.11	1939.43	5820.5	1939.75
5823.71	1939.9	5825.46	1940	5826.04	1940.24	5826.35	1940.41	5828.04	1941
5830.65	1942.01	5832.35	1943	5834.63	1943.56	5836.7	1944	5839.64	1944.56
5844.89	1945.54	5847.5	1946	5850.17	1946.46	5853.04	1947	5856.27	1947.57
5858.5	1948	5860.71	1948.47	5865.57	1949.55	5867.64	1950	5869.97	1950.48
5874.4	1951.43	5879.23	1952.45	5881.8	1953	5885.42	1953.61	5887.94	1954
5891.59	1954.53	5894.71	1955	5896.45	1955.27	5901.42	1956	5906.47	1956.77
5908.02	1957	5909.65	1957.34	5911.44	1957.9	5911.83	1958	5915.16	1958.02
5923.85	1958.01	5925.02	1958.04	5928.11	1958.07	5929.55	1958.15	5941.52	1958.99
5943.01	1959	5974.91	1959	5979.62	1958.99	5985.35	1958.99	5989.98	1959
6022.95	1959								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
2250.05	.045	2250.05	.04	6022.95	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
2250.05	6022.95	276.29	276.29	276.29	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1942.07	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.11	Wt. n-Val.		0.040	
W.S. Elev (ft)	1941.96	Reach Len. (ft)	276.29	276.29	276.29
Crit W.S. (ft)		Flow Area (sq ft)		8271.12	
E.G. Slope (ft/ft)	0.001592	Area (sq ft)		8271.12	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3347.01	Top Width (ft)		3347.01	
Vel Total (ft/s)	2.71	Avg. Vel. (ft/s)		2.71	
Max Chl Dpth (ft)	4.96	Hydr. Depth (ft)		2.47	
Conv. Total (cfs)	561375.5	Conv. (cfs)		561375.5	
Length Wtd. (ft)	276.29	Wetted Per. (ft)		3349.14	
Min Ch El (ft)	1937.00	Shear (lb/sq ft)		0.25	
Alpha	1.00	Stream Power (lb/ft s)	6022.95	0.00	0.00
Frctn Loss (ft)	0.49	Cum Volume (acre-ft)		2851.88	
C & E Loss (ft)	0.00	Cum SA (acres)		1353.06	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -3946.09

INPUT
Description:
Station Elevation Data num= 346

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
2255.59	1942.5	2262.92	1942.75	2264.93	1942.75	2268.17	1942.61	2280.79	1942
2281.13	1942	2285.68	1941.06	2290.93	1940	2298.32	1938.54	2300.5	1938
2302.12	1937.96	2303.74	1938	2314.47	1938	2327.3	1937.94	2359.04	1937.55
2381.36	1937.53	2393.56	1937.7	2413	1938	2413.22	1938	2429.96	1938.83
2432.88	1939	2563.29	1939	2564.38	1939.02	2586.33	1939.33	2587.13	1939.32
2596.12	1939.29	2597.8	1939.29	2601.16	1939.32	2608.67	1939.31	2613.74	1939.34
2622.4	1939.42	2636.21	1939.56	2640.06	1939.61	2660.95	1939.81	2678.96	1940
2696.84	1940.1	2704.86	1940.16	2725.92	1940.3	2726.51	1940.3	2748.36	1940.45
2760.59	1940.52	2770	1940.57	2770.36	1940.58	2796.67	1940.58	2823.01	1940.56
2828.23	1940.64	2834.04	1940.75	2840.17	1940.84	2842.1	1940.83	2847.8	1940.77
2854.99	1940.68	2893.47	1940.81	2944.47	1941	2974.91	1941	2982.88	1940.79
2989.56	1940.62	3017.21	1940.01	3019.96	1940	3030.22	1939.84	3037.16	1939.72
3047.95	1939.54	3078.9	1939	3085.61	1938.74	3092.66	1938.48	3097.17	1938.34
3099.87	1938.29	3105.07	1938	3116.4	1937.18	3118.78	1937	3272.46	1937
3278.31	1937.08	3304.09	1937.4	3304.42	1937.41	3320.56	1937.51	3332.19	1937.57
3339.66	1937.68	3343.04	1937.71	3344.6	1937.71	3359.51	1937.8	3376.42	1937.91
3378.21	1937.93	3381.92	1938	3411.61	1938	3417.39	1938.03	3424	1938
3486.88	1938	3513.8	1938.3	3522.29	1938.31	3530.79	1938.3	3538.51	1938.41
3543.99	1938.54	3555.55	1938.87	3559.89	1939	3672.6	1939	3717.97	1939.93
3720.26	1939.98	3721.66	1939.98	3729.01	1939.7	3738.16	1939	3765.26	1938.3
3769.3	1938.21	3781.98	1938	3818.82	1938	3822.03	1938.02	3836.95	1938.49
3840.23	1938.59	3850.77	1939	3850.96	1939	3854.93	1939.59	3856.89	1939.84
3858.06	1939.89	3861.56	1939.8	3864.1	1939.89	3867.17	1940.03	3870.86	1940.28
3872.34	1940.3	3873.72	1940.29	3874.82	1940.24	3878.03	1940	3882.4	1939.99
3884.37	1940.01	3886.78	1940.16	3895.88	1940.52	3900.75	1940.62	3902.03	1940.67
3912.96	1941	3915.23	1941.17	3917.89	1941.26	3921.15	1941.46	3926.46	1941.77
3929.48	1942	3932.04	1942.06	3934.29	1942.06	3938.09	1942.08	3945.34	1942.04
3947.27	1942.11	3950.94	1942.14	3951.84	1942	3971.67	1942	3973.11	1942.08
3974.37	1942.11	3975.56	1942.08	3977.78	1942.2	3982.66	1942	3991.23	1941.55
3993.24	1941.44	3996.11	1941.32	3997.98	1941.26	4000.79	1941.13	4003.46	1941.08
4005.66	1941.08	4006.75	1941.11	4008.3	1941.1	4011.65	1941.21	4016.87	1941.43
4029.19	1941.98	4029.49	1942	4038.87	1942	4045.92	1942.67	4051.44	1943.08
4051.92	1943.02	4056.57	1943.07	4059.26	1943.08	4060.47	1943.06	4061.9	1943
4063.56	1942.76	4068.22	1942	4071.67	1941.51	4075.59	1941	4080.78	1940.76

4087.66	1940.39	4095.47	1940	4112.95	1940	4119.04	1939.99	4125.14	1940
4166.78	1940	4169.3	1940.03	4175.17	1940.03	4185.13	1940	4199.1	1940
4206.83	1939.38	4208.85	1939.26	4212.03	1939	4228.6	1939	4242.52	1939.2
4243.75	1939.25	4247.89	1939.3	4251.88	1939.28	4256.42	1939	4257.53	1938.95
4261.17	1938.91	4264.93	1938.89	4266.57	1939	4274.04	1939.59	4275.87	1939.68
4282.32	1939.95	4284.31	1940	4286.17	1940.01	4287.18	1939.99	4289.31	1939.73
4290.8	1939.5	4293.43	1939	4294.3	1938.82	4296.78	1938.18	4297.54	1938
4302.17	1938	4306.63	1938.41	4312.83	1939	4314.95	1939.18	4322.24	1939.83
4324.26	1940	4325.92	1940.1	4342.85	1941	4348.05	1941.27	4349.63	1941.33
4350.64	1941.33	4355.72	1941.43	4356.98	1941.39	4366.78	1941.34	4380.8	1941.13
4385.39	1941.01	4386.38	1941	4497.65	1941	4501.22	1940.96	4523.6	1940.69
4524.82	1940.69	4531.82	1940.58	4548.7	1940.05	4554.06	1940.03	4555.92	1940
4564.54	1939.68	4583.18	1939	4604.79	1938.28	4613.08	1938	4778.6	1938
4786.52	1938.02	4787.34	1938.01	4794.21	1938.01	4797.27	1938	4803.19	1938
4809.61	1938.03	4812.16	1938.02	4818.73	1938.02	4822.86	1938.03	4827.72	1938.02
4835.12	1938.03	4836.68	1938.02	4844.11	1938.02	4845.86	1938.01	4852.48	1938.01
4853.73	1938	4857.95	1938	4861.59	1938.07	4904.03	1939	4923.61	1939.6
4933.36	1939.76	4947.02	1940	5043.4	1940	5046.51	1939.99	5128.39	1939.66
5179.37	1939.46	5181.42	1939.46	5206.4	1939.26	5238.57	1939	5488.03	1939
5504.73	1938.95	5521	1938.98	5524.57	1939	5529.26	1939.01	5532.64	1939
5533.79	1938.98	5545.79	1938.9	5548.32	1938.9	5553.34	1938.94	5558.72	1938.96
5561.8	1938.96	5565.6	1938.9	5577.71	1938.09	5579.86	1938	5580.41	1938
5583.15	1938.27	5585.55	1938.47	5591.19	1939	5597.27	1939.55	5601.18	1939.73
5602.95	1939.8	5607.51	1939.65	5612.36	1939.51	5614.84	1939.49	5621.68	1939.07
5623.71	1939.06	5633.67	1939.06	5636.84	1939.05	5642.15	1939.02	5643.93	1939
5660.92	1939	5663.4	1938.99	5669.23	1938.99	5694.34	1938.98	5695.24	1939
5771.86	1939	5793.91	1939.58	5811.4	1940	5835.75	1940.78	5842.77	1941
5860.2	1942	5866.74	1942.54	5871.89	1943	5874.29	1944.21	5875.9	1945
5878.16	1946.06	5882.58	1948.01	5885.63	1949	5889.88	1950.23	5892.85	1951
5894.95	1951.62	5896.35	1952	5899.66	1952.94	5903.84	1954.1	5907.17	1955
5923.01	1956	5923.34	1956	5927.99	1956.19	5946.54	1957	5955.61	1957.92
5956.61	1958	5962.15	1958	5972.21	1957.99	5976.95	1958	6004.57	1958
6007.68	1957.88	6009.02	1957.77	6012.78	1957.55	6019.3	1957	6026.44	1956.88
6026.84	1956.88	6033.83	1956.1	6034.43	1956.09	6035.79	1956	6041.21	1956
6051.55	1956.26	6058.94	1956.47	6065.23	1956.64	6067.17	1956.7	6077.89	1957
6086.81	1957								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
2255.59	.045	2255.59	.04	6086.81	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
2255.59	6086.81	206.65	206.65	206.65	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1941.58	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.13	Wt. n-Val.		0.040	
W.S. Elev (ft)	1941.45	Reach Len. (ft)	206.65	206.65	206.65
Crit W.S. (ft)		Flow Area (sq ft)		7843.23	
E.G. Slope (ft/ft)	0.001971	Area (sq ft)		7843.23	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3440.31	Top Width (ft)		3440.31	
Vel Total (ft/s)	2.86	Avg. Vel. (ft/s)		2.86	
Max Chl Dpth (ft)	4.45	Hydr. Depth (ft)		2.28	
Conv. Total (cfs)	504556.4	Conv. (cfs)		504556.4	
Length Wtd. (ft)	206.65	Wetted Per. (ft)		3441.72	
Min Ch El (ft)	1937.00	Shear (lb/sq ft)		0.28	
Alpha	1.00	Stream Power (lb/ft s)	6086.81	0.00	0.00
Frctn Loss (ft)	0.39	Cum Volume (acre-ft)		2800.78	
C & E Loss (ft)	0.00	Cum SA (acres)		1331.53	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -4152.74

INPUT
Description:
Station Elevation Data num= 390

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
2241.89	1942	2246.54	1941.98	2250.42	1941.91	2254.52	1941.92	2254.63	1941.91
2257.78	1941.89	2259.66	1941.78	2271.73	1941	2297.88	1941	2304.43	1940.78
2306.22	1940.74	2307.59	1940.69	2325.95	1940.16	2329.01	1940.07	2334.45	1940
2336.61	1939.76	2342.14	1939	2350.31	1938.45	2356.01	1938	2365.02	1937.25
2371.8	1937	2437.03	1937	2469.11	1937.44	2484.5	1937.62	2492.6	1937.71
2499.44	1937.79	2503.92	1937.82	2508.33	1937.83	2508.56	1937.84	2517.36	1938
2527.59	1938	2530.72	1938.11	2532.41	1938.18	2535.06	1938.24	2544.75	1938.58
2551.01	1938.72	2554.41	1938.77	2560.26	1938.83	2561.42	1938.83	2571.11	1938.99
2574.59	1938.99	2585.68	1939.01	2593.32	1939.01	2593.9	1939	2671.65	1939
2679.86	1938.99	2691.01	1938.95	2693.83	1938.96	2695.76	1938.95	2705.97	1938.99
2709.28	1939	2801.53	1939	2810.82	1939.18	2817.73	1939.31	2828.44	1939.03
2831.7	1939.03	2861.39	1939.02	2864.97	1939.02	2880.66	1939	2994.33	1939
2996.54	1939.11	2998.09	1939.09	3000.04	1939.1	3012.11	1939.21	3019.63	1939.14

3022.96	1939.13	3024.38	1939.15	3025.63	1939.2	3051.02	1939.01	3087.6	1939.01
3109.23	1939	3114.96	1938.33	3117.66	1938	3126.69	1937.05	3127.24	1937
3129.72	1936.98	3134.67	1936.96	3156.75	1936.22	3158.08	1936.19	3162.73	1936
3165.13	1935.92	3174.96	1935.65	3195.22	1935.7	3202.6	1935.71	3218.64	1935.75
3218.83	1935.76	3230.45	1936	3231.29	1936	3245.33	1936.51	3252.11	1936.76
3263.17	1937	3271.28	1937.09	3276.69	1937.36	3283.52	1937.61	3284.24	1937.61
3302.58	1937.99	3319.01	1937.99	3320.5	1938	3347.32	1938	3366.5	1938.01
3376.33	1938.01	3392.55	1938	3455.71	1938	3458.52	1937.96	3493.93	1937.6
3511	1937.43	3520.08	1937.4	3531.2	1937.29	3531.8	1937.29	3543.72	1937.1
3547.77	1937.03	3553.12	1937	3555.38	1937	3560.05	1937.14	3591.12	1938
3595.89	1938.29	3596.45	1938.31	3602.67	1938.61	3605.26	1938.75	3610.23	1939
3691.26	1939	3699.25	1938.72	3703.57	1938.55	3714.05	1938	3718.25	1937.99
3722.34	1938	3723.58	1938.13	3734.86	1938.27	3743.18	1938.36	3743.53	1938.36
3749.07	1938.24	3763.7	1938.01	3764.53	1938	3774.93	1938	3784.4	1938.22
3784.72	1938.22	3793.54	1938.43	3799.62	1938.59	3816.63	1939	3856.01	1939
3863.1	1940	3867.16	1940.58	3867.74	1940.67	3873.07	1941.41	3874.98	1941.63
3890.7	1943	3902.08	1943.98	3902.28	1944	3917.16	1945	3933.1	1945
3937.55	1944.31	3939.62	1944	3941.41	1943.77	3944.51	1943.29	3947.89	1942.81
3951.73	1942.29	3952.76	1942.12	3954.54	1941.88	3955.23	1941.77	3960.2	1941.1
3964.65	1940.52	3965.74	1940.39	3966.83	1940.21	3968.03	1939.98	3978.59	1939
3979.06	1939	3980.06	1939.19	3983.26	1940	3984.73	1940.32	3985.24	1940.48
3987.2	1941	3989.86	1941.63	3991.02	1942	3995.03	1943	3996.88	1943.65
3997.75	1944	4001.85	1945.26	4003.41	1945.68	4004.21	1945.8	4004.87	1945.83
4006.15	1945.73	4006.43	1945.74	4007.31	1945.61	4011.24	1945.35	4011.82	1945.25
4015.29	1945	4016.23	1944.85	4022.97	1944	4028.38	1943.48	4029.32	1943.36
4031.42	1943	4037.05	1942.71	4038.72	1942.61	4042.99	1942.25	4045.36	1942
4050.17	1941.74	4063.26	1941	4078.42	1940.2	4080.25	1940.12	4081.49	1940.1
4083.55	1940	4098.73	1939.4	4100.4	1939.32	4108.42	1939	4116.68	1939
4139.96	1939.44	4142.04	1939.49	4150.39	1939.82	4154.79	1940	4159.48	1940.42
4169.27	1941	4174.02	1941.42	4175.47	1941.53	4178.86	1941.53	4184.85	1941.13
4185.91	1941	4188.16	1940.75	4195.43	1940	4207.9	1939.49	4221.42	1939.13
4224.78	1939.01	4226.79	1939	4230.21	1939	4233.35	1939.5	4236.36	1940
4238.29	1940.28	4243.51	1941	4251.76	1942	4256.97	1942	4265.52	1941.08
4266.92	1940.96	4276.95	1940.19	4279.58	1940	4288	1939.73	4297.08	1939.47
4308.72	1939	4312.18	1939	4313.9	1938.93	4324.34	1938.56	4325.83	1938.5
4329.13	1938.39	4335.36	1938.2	4341.1	1938	4353.48	1938	4354.93	1938.06
4361.38	1938.27	4363.97	1938.37	4364.83	1938.38	4366.45	1938.47	4370.49	1938.43
4371.09	1938.46	4373.31	1938.48	4377.92	1938.61	4386.08	1938.99	4393.8	1938.99
4396.5	1939	4399.93	1938.99	4401.6	1939	4406.09	1939	4413.14	1938.99
4414.86	1939	4427.96	1939	4429.55	1939.01	4433.97	1939.01	4436.52	1939
4467.1	1939	4474.26	1939.26	4495.07	1940	4497.57	1940	4532.19	1940.03
4538.65	1940.04	4541.34	1940.03	4551.52	1940.03	4561.66	1940.02	4565.94	1940.02
4571.42	1940.01	4579.87	1940.01	4581.98	1940	4585.64	1940	4605.11	1939.18
4610.66	1939	4614.06	1939	4625.98	1938.75	4636.14	1938.58	4654.27	1938.1
4657.74	1938.01	4666.27	1938.01	4673.1	1938	4697.12	1938	4727.42	1937.99
4765.78	1937.99	4783.71	1938	4856.65	1938	4857.45	1938.01	4906.77	1938.46
4925.13	1938.63	4927.48	1938.65	4948.1	1939	4970.92	1939	4978.24	1939.1
4979.92	1939.11	5001.42	1939.37	5055.99	1940	5085.67	1940	5092.56	1940.05
5102.98	1940.12	5127.37	1940.04	5133.03	1940.05	5148.66	1940.03	5151.28	1940.02
5164.41	1940	5179.14	1939.75	5186.85	1939.6	5190.12	1939.53	5207.06	1939.22
5210.97	1939.15	5214.23	1939.1	5217.71	1939.03	5219.66	1939	5345.31	1939
5346.2	1938.99	5355.68	1938.97	5404.89	1938.84	5409.24	1938.85	5480.58	1938.81
5563.98	1939	5567.84	1938.97	5586.58	1938.79	5592.47	1938.74	5611.63	1938.76
5626.09	1938.69	5651.48	1938.57	5654.17	1938.56	5693.99	1938.32	5715.89	1938.25
5722.47	1938.24	5728.86	1938.24	5739.37	1938.18	5744.5	1938.16	5755.07	1938.38
5757.5	1938.34	5759.8	1938.34	5771.66	1938.51	5805.9	1938.99	5808.86	1939
5817.02	1939.38	5822.44	1939.66	5822.57	1939.66	5829.24	1940	5836.21	1940.31
5840.57	1940.5	5855.08	1941	5865.71	1941.42	5875.61	1942	5876.43	1942.46
5877	1943	5879.18	1944	5883.48	1946	5884.64	1946.5	5885.73	1947
5886.91	1947.49	5891.48	1948.81	5893.04	1949.27	5897.79	1950.74	5898.51	1951
5901.57	1951.66	5902.54	1951.84	5903.67	1952	5910.36	1953	5914.35	1953.49
5918.21	1954	5921.93	1954.41	5922.47	1954.48	5925.98	1955	5929.28	1955.53
5932	1956	5934.47	1956.33	5940.24	1957	5981.22	1957.69	5984.04	1957.74
6000.44	1958	6024	1958	6041.26	1957	6044.52	1956.42	6046.99	1956
6052.31	1955.7	6055.19	1955.85	6057.87	1956	6066.16	1956.12	6095.96	1956.35

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
2241.89	.045	2241.89	.04	6095.96	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
2241.89	6095.96	103.82	103.82	103.82	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1941.19	Element	Left OB	Channel	Right OB	
Vel Head (ft)	0.12	Wt. n-Val.		0.040		
W.S. Elev (ft)	1941.06	Reach Len. (ft)	103.82	103.82	103.82	
Crit W.S. (ft)		Flow Area (sq ft)		7972.38		
E.G. Slope (ft/ft)	0.001826	Area (sq ft)		7972.38		
Q Total (cfs)	22400.00	Flow (cfs)		22400.00		
Top Width (ft)	3384.25	Top Width (ft)		3384.25		
Vel Total (ft/s)	2.81	Avg. Vel. (ft/s)		2.81		
Max Chl Dpth (ft)	5.41	Hydr. Depth (ft)		2.36		
Conv. Total (cfs)	524174.8	Conv. (cfs)		524174.8		
Length Wtd. (ft)	103.82	Wetted Per. (ft)		3385.77		
Min Ch El (ft)	1935.65	Shear (lb/sq ft)		0.27		
Alpha	1.00	Stream Power (lb/ft s)	6095.96	0.00	0.00	

Frctn Loss (ft)	0.19	Cum Volume (acre-ft)	2763.26
C & E Loss (ft)	0.00	Cum SA (acres)	1315.34

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -4256.56

INPUT
Description:
Station Elevation Data num= 411

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
2187.96	1941.75	2200.36	1941.84	2201.49	1941.83	2208.08	1941.67	2212.47	1941.59
2221.98	1941.34	2233.33	1941.01	2235.34	1941	2241.1	1940.75	2243.91	1940.62
2257.69	1940	2261.34	1939.95	2274.45	1939.89	2287.73	1939.85	2296.44	1939.89
2310.5	1939.95	2319.69	1939.98	2321.11	1940	2358.71	1940	2362.48	1939.77
2381.62	1939	2387.42	1938.4	2388.68	1938.26	2390.77	1938	2395.49	1937.93
2401.83	1938	2409.54	1938	2410.72	1937.96	2414.19	1937.81	2415.21	1937.75
2449.29	1937.08	2452.59	1937.01	2456.96	1937.01	2487.7	1937.45	2491.08	1937.55
2493.6	1937.61	2494.26	1937.61	2505.35	1937.88	2517.83	1938	2534.32	1938
2544.96	1937.56	2547.05	1937.47	2549.97	1937.32	2556.85	1937	2596.04	1937
2601.88	1937.26	2620.34	1938	2641.62	1938	2648.91	1938.18	2656.82	1938.19
2666.28	1938.26	2670.83	1938.19	2676.49	1938.09	2679.64	1938	2732.1	1938
2738.11	1938.15	2738.23	1938.16	2743.98	1938.27	2746.5	1938.34	2753.86	1938.53
2769.7	1938.99	2771.7	1939	2823.98	1939	2826.12	1938.99	2862.03	1938.99
2888.32	1938.98	2924.04	1938.99	2927.69	1939	2964.39	1939	2973.03	1938.99
2985.11	1938.99	2989.84	1939	3006.15	1939	3027.64	1938	3031.06	1938
3047.71	1938.42	3051.78	1938.54	3069.28	1939	3131.88	1939	3133.77	1938.96
3139.36	1938.67	3140.51	1938.63	3144.03	1938.54	3144.56	1938.51	3159.01	1938.04
3162.44	1938.02	3163.45	1938	3171.93	1937.61	3184.97	1937	3198.86	1936.32
3205.62	1936	3239.78	1935.08	3242.67	1935	3261.19	1935	3261.35	1935.01
3278.58	1935.64	3294.61	1936	3298.55	1936.14	3320.33	1937	3349.24	1938
3425.81	1938	3439.59	1937.73	3441.99	1937.71	3459.18	1938	3510.85	1938
3535.35	1937.44	3539.03	1937.35	3545.04	1937.28	3551.37	1937.2	3551.77	1937.19
3559.61	1937.09	3561.94	1937.07	3568.34	1937	3631.9	1937	3647.58	1937.7
3654.79	1938	3665.66	1938.55	3675.96	1939	3684.35	1939	3694.24	1938.82
3702.94	1938.71	3715.84	1938.63	3726.44	1938.58	3740.87	1938.38	3745.62	1938.3
3756.34	1938.05	3761.96	1937.99	3773.84	1937.94	3778	1937.94	3786.87	1937.97
3787.91	1937.98	3806.8	1937.98	3808.3	1937.99	3816.98	1937.99	3822.85	1938
3827.44	1938.13	3829.46	1938.22	3846.4	1939	3909.11	1939	3909.66	1939.06
3917.08	1939.94	3917.54	1940	3924.38	1940.81	3925.94	1941	3931.08	1941.69
3933.43	1941.94	3937.17	1942.21	3948.43	1943	3951.27	1943.05	3958.04	1943.11
3965.75	1943	3967.83	1942.87	3968.31	1942.86	3969.88	1942.75	3979.09	1942.01
3981.27	1941.99	3986.04	1942	3986.37	1942.03	3997.16	1942.59	3999.29	1942.69
4001.34	1942.77	4003.42	1942.83	4004.71	1942.89	4008.58	1942.9	4011.01	1942.88
4013.7	1942.83	4015.43	1942.83	4019.48	1942.85	4024.14	1943	4026.43	1943.17
4031.19	1943.44	4032.76	1943.5	4033.64	1943.5	4036.24	1943.55	4037.9	1943.48
4039.68	1943.47	4040.42	1943.41	4041.55	1943.38	4043.08	1943.28	4046.1	1943
4047.88	1942.99	4052.17	1942.99	4055.96	1942.54	4059.43	1942	4064	1941.3
4069.55	1940.52	4072.49	1940.19	4074.51	1940	4076.53	1939.85	4078.32	1939.76
4080.08	1939.73	4081.87	1939.8	4084.9	1940	4091.3	1940.46	4091.84	1940.47
4094.6	1940.33	4098.45	1940.05	4100.01	1939.87	4101.85	1939.87	4113.6	1939.4
4121.48	1939.07	4125.46	1939	4199.55	1939	4209.98	1939.01	4218.99	1939.01
4225.39	1939	4235.32	1939	4246.38	1939.62	4252.88	1940	4261.3	1940.47
4263.08	1940.53	4265.08	1940.57	4268.2	1940.59	4270.08	1940.51	4273.4	1940.32
4276.51	1940	4279.16	1939.67	4284.86	1939	4286.74	1939	4290.15	1939.35
4291.06	1939.42	4294.04	1939.52	4295.84	1939.5	4296.7	1939.53	4297.72	1939.53
4298.26	1939.56	4306.69	1939.57	4307.02	1939.6	4312.99	1939.98	4313.32	1939.99
4317.75	1939.99	4327.01	1939.44	4328.75	1939.4	4332.1	1939.13	4333.92	1939
4494.58	1939	4505.61	1939.01	4515.28	1939.01	4530.05	1939.31	4541.63	1939.38
4547.05	1939.43	4558.18	1939.54	4561.89	1939.57	4568.98	1939.67	4570.6	1939.68
4574.74	1939.68	4585.95	1939.74	4594.15	1939.77	4606.89	1939.77	4622.26	1939.7
4627.95	1939.65	4646.98	1939.37	4668.75	1939	4671.44	1938.92	4710.63	1938.01
4711.57	1938	4718.82	1938	4741.54	1937.75	4756.53	1937.59	4772.02	1937.47
4773.58	1937.47	4777.78	1937.44	4799.79	1937.58	4843.87	1937.89	4846.51	1937.92
4851.29	1937.99	4852.64	1938	4863.62	1938	4890	1938.3	4899.11	1938.39
4900.37	1938.41	4926.08	1938.61	4927.56	1938.63	4931.18	1938.65	4936.35	1938.69
4940.56	1938.71	4942.02	1938.73	4950.86	1938.75	4976.53	1938.98	4992.65	1938.98
4995.85	1938.99	5000.94	1938.98	5008.53	1939	5010.82	1939	5029.83	1939.34
5036.42	1939.48	5047.43	1939.69	5047.95	1939.71	5064.38	1940	5068.77	1940.06
5081.9	1940.23	5083.37	1940.24	5089.12	1940.31	5093.51	1940.34	5096.08	1940.37
5145.9	1940.68	5147.76	1940.69	5154.77	1940.76	5165.49	1940.86	5170.07	1940.89
5174.79	1940.93	5180.23	1940.96	5180.63	1940.97	5184.53	1940.95	5188.84	1940.89
5190.14	1940.88	5202.24	1940.66	5209.66	1940.54	5213.78	1940.48	5223.25	1940.29
5228.02	1940.21	5229.84	1940.17	5239.09	1940	5240.5	1940	5265.15	1939.37
5273.87	1939.18	5276.69	1939.14	5282.6	1939	5315.39	1939	5329.4	1938.91
5346.36	1938.82	5360.25	1938.74	5361.64	1938.74	5365.63	1938.71	5387.25	1938.58
5394.84	1938.54	5426.2	1938.45	5449.03	1938.39	5450.3	1938.39	5456.25	1938.42
5461.77	1938.44	5498.3	1938.42	5541.06	1938.51	5578.64	1938.55	5594.56	1938.41
5624.04	1938.16	5625.8	1938.12	5629.28	1938.06	5635.8	1938	5688.24	1938
5717.63	1938.04	5727.17	1938	5809.87	1938	5812.17	1938.03	5813.25	1938.07
5818.05	1938.16	5823.07	1938.34	5828.83	1938.5	5835.66	1938.74	5838	1938.83
5842.86	1939	5846.57	1939.02	5853.95	1939.32	5855.68	1939.38	5865.39	1939.8
5869.91	1940	5876.28	1940.54	5878.61	1940.72	5881.94	1941	5888.25	1941.47

5896.94	1942	5899.28	1942.03	5901.99	1942.04	5904.62	1942	5905.54	1942
5906.77	1942.79	5908.92	1944	5910.46	1944.83	5911.2	1945.05	5915.25	1946
5916.34	1946.24	5918.2	1946.59	5929.51	1948.62	5931.67	1949	5936.98	1949.98
5945.45	1951.67	5949.06	1952.41	5950.24	1952.68	5952.83	1953.22	5957.88	1954
5961.99	1954.51	5966.02	1955	5975.68	1955.93	5976.66	1956.03	5978.56	1956.18
5987.77	1956.93	5989.57	1957	6002.57	1957.3	6005.29	1957.37	6005.83	1957.4
6015.38	1957.46	6027.99	1957.53	6032.85	1957.62	6036.14	1957.67	6038.62	1957.72
6049.23	1957.85	6055.74	1957.91	6056.88	1957.9	6058.87	1957.85	6060.32	1957.77
6061.88	1957.81	6064.35	1957.83	6068.21	1957.52	6069	1957.51	6071.22	1957.32
6075.46	1957	6088.25	1956.05	6088.82	1956	6092.89	1955	6105.64	1955
6115.53	1955.36								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
2187.96	.045	2187.96	.04	6115.53	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
2187.96	6115.53	123.71	123.71	123.71	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1941.00	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.12	Wt. n-Val.		0.040	
W.S. Elev (ft)	1940.88	Reach Len. (ft)	123.71	123.71	123.71
Crit W.S. (ft)		Flow Area (sq ft)		8080.18	
E.G. Slope (ft/ft)	0.001811	Area (sq ft)		8080.18	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3477.90	Top Width (ft)		3477.90	
Vel Total (ft/s)	2.77	Avg. Vel. (ft/s)		2.77	
Max Chl Dpth (ft)	5.88	Hydr. Depth (ft)		2.32	
Conv. Total (cfs)	526430.9	Conv. (cfs)		526430.9	
Length Wtd. (ft)	123.71	Wetted Per. (ft)		3478.91	
Min Ch El (ft)	1935.00	Shear (lb/sq ft)		0.26	
Alpha	1.00	Stream Power (lb/ft s)	6115.53	0.00	0.00
Frctn Loss (ft)	0.20	Cum Volume (acre-ft)		2744.14	
C & E Loss (ft)	0.01	Cum SA (acres)		1307.16	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -4380.27

INPUT
Description:
Station Elevation Data num= 428

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
1905.5	1941	1906.22	1940.99	1925.37	1940.17	1929.27	1940	1938.16	1939.54
1943.5	1939.28	1948.42	1939	1952.03	1938.77	1953.43	1938.72	1958.02	1938.51
1961.21	1938.38	1964.18	1938.24	1964.22	1938.25	1972.47	1938.37	2001.89	1938.88
2006.34	1939	2042.74	1939	2056.75	1939.84	2058.77	1940	2145.36	1940
2154.18	1939.8	2159.68	1939.7	2177.14	1939.49	2210.32	1939.03	2216.62	1939
2240.99	1938.17	2247.1	1938	2302.85	1938	2304.78	1938.51	2306.89	1939
2320.22	1939.81	2322.52	1940	2329.81	1940	2339.1	1940.01	2350.89	1940.01
2356.28	1940	2372.77	1940	2373.68	1939.99	2389.35	1939.94	2403.82	1939.92
2407.57	1939.92	2411.35	1939.93	2423.83	1939.98	2424.76	1939.96	2431.08	1940
2436.23	1939.99	2447.83	1939.94	2451.84	1939.9	2458.11	1939.76	2464.93	1939.63
2477.74	1939.25	2480.69	1939.18	2487.11	1939	2505.05	1938	2507.29	1937.84
2518.68	1937	2563.44	1937	2568.99	1937.15	2573.04	1937.22	2579.69	1937.38
2585.15	1937.48	2594.3	1937.64	2602.75	1937.82	2605.34	1937.87	2611.37	1938
2616.24	1938	2616.39	1937.99	2623.94	1937.84	2634.65	1937.65	2635.52	1937.64
2647.53	1937.55	2648.08	1937.54	2665.17	1937.29	2680.38	1937.01	2684.49	1937.01
2688.64	1937	2774.54	1937	2797.06	1937.63	2804.92	1937.86	2810.24	1938
2813.54	1938	2818.07	1937.96	2842.01	1937.73	2860.42	1937.57	2865.22	1937.52
2878.99	1937.51	2892.35	1937.51	2898.88	1937.59	2901.35	1937.61	2907.75	1937.7
2916.43	1937.83	2925.61	1938	3104.3	1938	3152.42	1938.46	3167.99	1938.57
3179.06	1938.29	3198.07	1938.58	3201.71	1938.32	3204.49	1938	3215.95	1937.47
3221.29	1937.25	3223.23	1937.15	3224.66	1937.1	3225.92	1937	3238.04	1936.43
3242.65	1936.26	3248.01	1936	3249.36	1936	3258.44	1935.74	3265.8	1935.56
3270.37	1935.46	3277.21	1935.33	3280.64	1935.27	3296.39	1935.11	3308.72	1935
3317.98	1935	3326.12	1935.11	3326.34	1935.12	3364.46	1935.36	3369.29	1935.46
3370.23	1935.47	3381.06	1935.73	3384.22	1935.75	3392.96	1936	3397.75	1936.21
3419.83	1937	3419.99	1937	3430.71	1937.38	3435.64	1937.55	3448.72	1937.59
3459.87	1937.62	3460.56	1937.61	3466.02	1937.62	3473.66	1937.65	3475.71	1937.63
3479.93	1937.63	3484.36	1937.62	3489.28	1937.57	3522.93	1937.01	3523.38	1937
3556.58	1937	3575.88	1937.27	3579.95	1937.29	3607.92	1937.99	3612.19	1937.99
3616.34	1937.94	3641.46	1937.65	3650.54	1937.55	3655.39	1937.54	3660.06	1937.52
3678.52	1937.21	3684.76	1937.08	3687.18	1937.08	3692.47	1937.06	3702.99	1937.05
3706.22	1937.04	3712.13	1937.17	3720.65	1937.52	3722.07	1937.61	3728.85	1937.86
3732.98	1938	3739.03	1938.53	3740.4	1938.66	3743.75	1938.88	3744.75	1938.91
3745.76	1938.9	3748.4	1938.77	3750.02	1938.65	3751.19	1938.54	3757.8	1938
3809.58	1938	3811.62	1937.94	3826.83	1937.52	3838.27	1937.23	3841.89	1937.15
3844.87	1937	3845.73	1937	3852.65	1937.91	3856.1	1938.34	3861.51	1939
3873.93	1939.5	3889.36	1939.59	3901.65	1939.55	3910.54	1939.23	3912.48	1939.21
3916.56	1939	3922.38	1938.96	3927.88	1938.93	3928.63	1938.92	3936.91	1938.89

3947.96	1938.94	3958.38	1939	3961.47	1939.32	3968.22	1940	3974.12	1940.39
3978.47	1940.61	3985.99	1941	3992.21	1941.15	3993.18	1941.15	4000.61	1941
4004.37	1940.71	4005.96	1940.6	4013.17	1940.21	4017.97	1940	4019.29	1939.95
4023.57	1939.83	4030.95	1939.92	4031.12	1939.93	4037.78	1939.98	4038.88	1940
4044.55	1940.29	4049.78	1940.55	4058.37	1940.99	4059.98	1941	4060.37	1941.03
4069.62	1941.18	4077.24	1941.22	4079.99	1941	4085.91	1940.86	4088.15	1940.83
4089.28	1940.84	4096.25	1940.55	4099.37	1940.67	4101.23	1940.71	4108.59	1940
4109.53	1939.95	4111.58	1939.99	4115.42	1940	4116.7	1940.24	4117.92	1940.39
4129.83	1942	4132.91	1942.06	4135.06	1942	4139.68	1940.81	4142.76	1940
4144.34	1939.64	4149.19	1939	4157.37	1938.14	4158.48	1938	4166.05	1937.96
4167.26	1937.96	4173.3	1938	4176.34	1938.54	4176.85	1938.65	4180.41	1939.28
4181.28	1939.41	4184.14	1939.75	4186.91	1940	4194.89	1940.68	4197.28	1940.74
4200.02	1940.76	4203.4	1940.87	4206.01	1940.86	4207.32	1940.84	4209.75	1940.76
4219.74	1940.4	4230.54	1940	4249.3	1940	4252.42	1939.93	4270.68	1939.96
4273.14	1939.96	4274.35	1940	4277.94	1940.46	4282.39	1941	4282.98	1941.01
4286.57	1941.27	4289.2	1941.41	4292.77	1941.56	4293.65	1941.57	4296.75	1941.66
4299.83	1941.67	4302.81	1941.55	4311.42	1941.01	4311.93	1941	4317.83	1940
4318.84	1939.9	4320.9	1939.81	4322.65	1939.77	4326.71	1939.8	4330.39	1939.8
4332.98	1939.73	4335.2	1939.62	4336.26	1939.55	4341.92	1939	4345.9	1939
4349.47	1938.99	4356.75	1939	4361.38	1939	4367.45	1938.77	4369.97	1938.77
4372.58	1938.81	4376.05	1938.99	4376.64	1939	4383.84	1939.01	4389.6	1939
4416.44	1939	4420.46	1938.93	4435.82	1938.95	4441.85	1938.9	4444.75	1938.95
4450.24	1939	4489.79	1939	4495.2	1938.99	4496.49	1939	4540.13	1939
4551.35	1938.55	4551.96	1938.52	4555.37	1938.41	4558.53	1938.33	4561.87	1938.2
4565.72	1938	4568.76	1937.95	4573.33	1937.89	4579.15	1937.92	4583.88	1937.91
4589.88	1937.95	4592.1	1937.98	4595.68	1938	4602.07	1938.16	4603.29	1938.21
4609.2	1938.38	4611.08	1938.45	4613.64	1938.51	4621.13	1938.98	4629.94	1938.98
4637.83	1939	4664.2	1939.04	4665.81	1939.04	4676.46	1939.06	4700.75	1939.03
4716.56	1939.02	4725.2	1939	4731.49	1938.85	4734.28	1938.74	4752.64	1938
4759.71	1937.83	4795.15	1937.01	4798.07	1937	4834.6	1937	4845.89	1937.19
4854.22	1937.34	4904.1	1938	4958.6	1938	4967.33	1938.13	4967.69	1938.13
4973.2	1938.22	4975.05	1938.26	4981.47	1938.36	4985.14	1938.43	5007.98	1938.79
5019.87	1939	5024.09	1939	5026.98	1939.04	5031.17	1939.08	5036.34	1939.15
5047.4	1939.27	5108.11	1940	5113.1	1940	5123.44	1940.14	5135.6	1940.29
5160.29	1940.39	5179.79	1940.44	5220.49	1940.22	5259.58	1940	5281.23	1940
5288.41	1939.88	5289.52	1939.87	5293.15	1939.8	5294.87	1939.78	5305.19	1939.61
5307.26	1939.58	5344.48	1939	5361.49	1939	5397.14	1938.64	5405.51	1938.56
5415.13	1938.46	5419.3	1938.42	5426.58	1938.34	5427.32	1938.34	5432.6	1938.28
5453.78	1938.06	5454.35	1938.06	5463.69	1938	5875.54	1938	5894.54	1938.64
5905.42	1939	5915.07	1939.54	5922.75	1940	5930.58	1940.97	5930.86	1941
5932.92	1941.05	5935.53	1941	5939.53	1942	5942.08	1942.49	5945.9	1943
5951.78	1943.87	5959.07	1945	5963.56	1945.69	5967.67	1946.37	5971.38	1947
5975.36	1947.77	5981.05	1948.9	5986.42	1950	5991.34	1951	5996.44	1952
6002.93	1953	6003.55	1953.08	6009.69	1954	6015.74	1954.79	6017.69	1955.03
6032.38	1956.44	6039.32	1957	6067.91	1957.01	6071.2	1957.02	6080.26	1957.01
6092.58	1957	6100.45	1957	6101.66	1956.99	6111.87	1956.61	6118.26	1956.39
6124.15	1956.32	6124.65	1956.32	6130.73	1956.16	6136.19	1956	6137.89	1956
6144.05	1955.32	6147.44	1955	6159	1955				

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
1905.5	.045	1905.5	.04	6159	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
1905.5	6159	301.45	301.45	301.45	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1940.79	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.10	Wt. n-Val.		0.040	
W.S. Elev (ft)	1940.69	Reach Len. (ft)	301.45	301.45	301.45
Crit W.S. (ft)		Flow Area (sq ft)		8936.80	
E.G. Slope (ft/ft)	0.001497	Area (sq ft)		8936.80	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3878.38	Top Width (ft)		3878.38	
Vel Total (ft/s)	2.51	Avg. Vel. (ft/s)		2.51	
Max Chl Dpth (ft)	5.69	Hydr. Depth (ft)		2.30	
Conv. Total (cfs)	578991.7	Conv. (cfs)		578991.7	
Length Wtd. (ft)	301.45	Wetted Per. (ft)		3880.16	
Min Ch El (ft)	1935.00	Shear (lb/sq ft)		0.22	
Alpha	1.00	Stream Power (lb/ft s)	6159.00	0.00	0.00
Frctn Loss (ft)	0.47	Cum Volume (acre-ft)		2719.97	
C & E Loss (ft)	0.00	Cum SA (acres)		1296.72	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -4681.72

INPUT
Description:
Station Elevation Data num= 440

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
1873.53	1941.87	1874.51	1941.87	1886.1	1942	1890.94	1942	1894.8	1941.93

1895.25	1941.93	1900.13	1941.83	1903.05	1941.79	1911.21	1941.65	1942.8	1941.09
1947.98	1941	1954.61	1940.74	1969.58	1940.17	1973.83	1940	1992.67	1939
1992.91	1939	1994.7	1938.88	2001.86	1938.62	2005.8	1938.45	2014.48	1938.12
2016.52	1938	2124.95	1938	2134.22	1937.7	2137.9	1937.51	2145.21	1937.24
2146.43	1937.18	2148.59	1937.15	2149.75	1937.15	2151.03	1937.19	2156.78	1937.45
2166.77	1937.52	2174.75	1937.8	2181.61	1938	2217.71	1938	2229.83	1937.97
2236.52	1937.99	2241.99	1938	2260.43	1938	2261.3	1937.92	2272.01	1937
2285.77	1937	2291.28	1937.19	2306.59	1937.68	2312.89	1937.89	2313.29	1937.91
2316.61	1938	2360.29	1938	2368.05	1938.4	2375.18	1938.8	2379.89	1938.85
2396.73	1939	2773.97	1939	2786.21	1939.01	2794.41	1939	2859.77	1939
2880.5	1938.74	2885.63	1938.66	2905.71	1938.26	2915.9	1938.04	2917.27	1938
2958.32	1938	2961.87	1937.99	2968.07	1938	2974.12	1938	2974.47	1937.99
2976.92	1937.99	2989.01	1937.71	2998.11	1937.53	3006.61	1937.58	3009.2	1937.59
3017.31	1937.45	3027.78	1937.08	3039.93	1937	3045.69	1936.76	3053.63	1936.39
3057.94	1936.2	3062.05	1936	3074.61	1935.28	3076.91	1935.15	3079.92	1935
3131.32	1935	3135.96	1935.17	3146.04	1935.58	3153.47	1935.9	3155.95	1936
3159.23	1936.2	3171.72	1937	3202	1937	3209.43	1936.76	3215.38	1936.58
3216.46	1936.56	3239.6	1936.84	3251.08	1936.99	3262.18	1936.99	3268.4	1937
3285.48	1937	3293.76	1937.21	3297.61	1937.34	3315.58	1937.98	3315.92	1938
3320.52	1938.01	3323.01	1938	3323.33	1938.01	3325.92	1938.01	3328.9	1938.14
3331.93	1938.24	3338.01	1938.42	3341.97	1938.5	3343.03	1938.49	3345.37	1938.51
3352.39	1938.51	3356.68	1938.48	3362.12	1938.47	3366.67	1938.44	3371.85	1938.4
3388.79	1938.02	3389.51	1938	3412.41	1938	3429.79	1937.99	3441.17	1938
3459.79	1938	3459.88	1937.99	3471.09	1937.57	3487.49	1937	3492.2	1936.67
3501.62	1936	3511.48	1935.47	3519.88	1935	3527	1934.68	3532.13	1934.54
3535.57	1934.46	3536.46	1934.46	3538.15	1934.42	3538.61	1934.43	3557.71	1934.62
3575.05	1934.91	3580.19	1934.99	3591.66	1934.99	3597.9	1935	3609	1935
3630.36	1934.99	3648.76	1935	3675.81	1935	3694.9	1935.49	3710.86	1936
3717.03	1936.15	3718.96	1936.18	3725.8	1936.26	3745.02	1936.6	3766.62	1937
3808.79	1937	3835.83	1937.01	3850.67	1937.01	3864.73	1937	3864.92	1937.01
3882.95	1937.23	3904.18	1937.4	3906.28	1937.42	3908.9	1937.42	3929.71	1937.25
3958.34	1937	3965.81	1937	3984.83	1936.29	3991.87	1936	4006.27	1935.98
4015.84	1935.98	4018.58	1935.99	4020.99	1935.99	4029.04	1936	4029.44	1936.02
4047.39	1937	4050.11	1937.79	4051.39	1938	4056.74	1938.06	4057.24	1938.06
4067.09	1938.33	4068.51	1938.35	4075.87	1938.31	4084.68	1938.23	4085.41	1938.2
4093.29	1938	4095.75	1937.98	4104.12	1937.84	4115.67	1937.62	4125.64	1937.69
4138.61	1937.8	4142.21	1937.95	4145.11	1938	4151.82	1938.66	4156.56	1939
4159.63	1939.51	4165.05	1940.4	4169.5	1941	4174.61	1941.57	4178.2	1942
4179.45	1942.24	4189.57	1943	4193.85	1944	4196.52	1944.48	4198.74	1944.8
4200.66	1945	4202	1945.06	4204.32	1945.09	4206.84	1945.07	4209.55	1945
4210.91	1944.94	4213.54	1944.79	4215.22	1944.65	4218.14	1944.34	4220.85	1944
4224.01	1943.67	4229.78	1943	4240.57	1942.52	4251.58	1942	4264.7	1941.34
4268.08	1941.2	4271	1941.17	4271.98	1941.15	4276.5	1941.1	4286.86	1940.5
4293.88	1940	4297.13	1939.83	4303.43	1939.64	4304.15	1939.6	4312.05	1939.3
4317.78	1939.06	4319.36	1939	4325.03	1938.98	4329.76	1939	4337.3	1939.37
4352.79	1940	4357.28	1940.25	4371.05	1941	4374.94	1941.03	4379.19	1941.04
4383.16	1941.02	4385.61	1941	4388.67	1941	4391.41	1940.99	4394.99	1940.76
4401.21	1940.55	4401.6	1940.56	4406.29	1940.28	4406.45	1940.28	4414.23	1939.71
4419.94	1939.36	4425.27	1939.01	4425.93	1939	4431.68	1939	4439.24	1939.01
4449.39	1939.18	4449.87	1939.21	4450.99	1939.13	4452.95	1939.14	4454.54	1939.22
4455.77	1939.22	4459.54	1939.43	4461.06	1939.46	4462.45	1939.47	4465.72	1939.44
4468.64	1939.36	4469.68	1939.34	4474.99	1939.16	4476.16	1939.03	4476.89	1939.03
4489.21	1938.14	4492.61	1937.85	4500.1	1937.18	4501.55	1937.16	4502.85	1937.16
4512.36	1938	4517.63	1938.52	4520.1	1938.75	4523	1939	4523.11	1939.04
4528.48	1939.15	4529.76	1939.16	4535.15	1939.07	4537.86	1939.05	4539.51	1939
4554.71	1938.5	4557.14	1938.28	4559.6	1938.09	4560.89	1938	4577.67	1937.49
4583.27	1937.33	4588.56	1937.2	4589.58	1937.19	4596.21	1937	4601.32	1937
4603.41	1937.11	4604.35	1937.11	4607.05	1937.2	4610.82	1937.29	4624.14	1937.78
4626.08	1937.84	4630.26	1938	4640.53	1938.63	4648.04	1939	4729.57	1939
4743.53	1938.63	4743.71	1938.63	4763.71	1938	4766.01	1938	4766.41	1938.02
4791.41	1938.96	4792.78	1939	4805.59	1939	4810.84	1939.01	4821.31	1939.01
4827.12	1939	4886.96	1939	4889.53	1938.99	4893.4	1938.91	4910.19	1938.67
4916.7	1938.57	4919.08	1938.54	4927.35	1938.47	4939.27	1938.26	4941.45	1938.23
4945.21	1938.16	4951.62	1938	4957.87	1937.76	4961.14	1937.76	4964.42	1937.75
4970.94	1937.63	4977.46	1937.49	4999.14	1937	5014.9	1937	5066.82	1937.67
5080.54	1937.84	5084.11	1937.88	5085.11	1937.88	5098.19	1938	5125	1938
5128.15	1938.01	5150.73	1938.02	5155.37	1938.02	5217.23	1938.68	5217.77	1938.68
5231.73	1938.79	5232.34	1938.8	5244.48	1938.85	5246.27	1938.87	5255.17	1938.95
5259.86	1939	5262.03	1939	5274.71	1939.14	5288.58	1939.29	5301.78	1939.41
5314.1	1939.53	5327.16	1939.59	5337.26	1939.62	5344.83	1939.72	5345.35	1939.72
5357.31	1939.89	5362.91	1939.94	5364.38	1939.94	5368.3	1939.96	5381.7	1939.97
5394.76	1939.96	5395.14	1939.97	5403.29	1939.97	5410.49	1939.96	5413.1	1939.96
5425.48	1939.95	5438.32	1939.92	5441.05	1939.91	5442.04	1939.89	5449.04	1939.86
5461.97	1939.79	5465.56	1939.75	5467.94	1939.74	5472.97	1939.68	5473.44	1939.68
5482.29	1939.59	5492.2	1939.46	5501.9	1939.32	5520.17	1939.09	5521.95	1939.06
5528.12	1939	5583.94	1939	5586.59	1938.97	5591.47	1938.93	5591.95	1938.92
5686.17	1938	6011.76	1938	6023.19	1938.17	6037.17	1938.34	6039.25	1938.34
6050.67	1938.45	6074.38	1938.71	6076.07	1938.73	6084.6	1938.79	6090.53	1938.81
6092.78	1938.86	6099.71	1939	6104.93	1939	6112.85	1939.93	6114.68	1940.1
6125.7	1940.87	6127.5	1941	6128.79	1941	6133.32	1941.66	6135.55	1942
6142.61	1942.92	6143.17	1943	6145.01	1943.19	6153.09	1944	6154.3	1944.17
6160.34	1945	6166.74	1945.9	6173.82	1947	6180.04	1947.98	6186.03	1949
6197.75	1951	6198.18	1951.07	6203.38	1952	6210.32	1953	6215.78	1953.79
6218.57	1954.1	6227.07	1955	6235.77	1955.5	6238.84	1955.68	6243.76	1956
6258.87	1956.66	6270.16	1956.99	6273.12	1957	6279.25	1957	6283.8	1956.98
6287.63	1957	6312.01	1957	6315.53	1956.79	6329.42	1956	6338.26	1955.3
6341.98	1955	6346.01	1954.99	6347.96	1955	6357.36	1955	6375.8	1955.19

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
1873.53	.045	1873.53	.04	6375.8	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
1873.53	6375.8	244.03	244.03	244.03	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1940.31	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.10	Wt. n-Val.		0.040	
W.S. Elev (ft)	1940.21	Reach Len. (ft)	244.03	244.03	244.03
Crit W.S. (ft)		Flow Area (sq ft)		8757.79	
E.G. Slope (ft/ft)	0.001652	Area (sq ft)		8757.79	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3969.93	Top Width (ft)		3969.93	
Vel Total (ft/s)	2.56	Avg. Vel. (ft/s)		2.56	
Max Chl Dpth (ft)	5.79	Hydr. Depth (ft)		2.21	
Conv. Total (cfs)	551198.6	Conv. (cfs)		551198.6	
Length Wtd. (ft)	244.03	Wetted Per. (ft)		3971.25	
Min Ch El (ft)	1934.42	Shear (lb/sq ft)		0.23	
Alpha	1.00	Stream Power (lb/ft s)	6375.80	0.00	0.00
Frctn Loss (ft)	0.42	Cum Volume (acre-ft)		2658.74	
C & E Loss (ft)	0.00	Cum SA (acres)		1269.56	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -4925.75

INPUT
Description:
Station Elevation Data num= 407

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
1924.08	1941	1945.82	1941	1966.44	1940	1967.17	1940	1996.44	1939.01
1997.54	1939	2001.79	1938.74	2012.89	1938	2022.23	1937.47	2029.69	1937.01
2030.52	1937	2161.58	1937	2174.85	1937.01	2199.75	1937.01	2200.89	1937
2313.75	1937	2323.56	1937.24	2324.32	1937.27	2332.16	1937.7	2334.54	1937.81
2337.63	1937.97	2338.41	1938	2342.69	1938	2349.26	1937.99	2353.15	1938
2364.86	1938.27	2395.14	1938.88	2397.9	1938.93	2398.82	1938.96	2402.89	1939
2408.97	1939	2413.06	1938.86	2428.59	1938	2546.62	1938	2604.37	1938.94
2608.1	1939	2671.1	1939	2682.42	1939.19	2683.84	1939.23	2696.91	1939.45
2707.36	1939.82	2708.77	1939.84	2710.93	1939.92	2713.8	1940	2717.68	1940.01
2724.95	1940.17	2725.2	1940.17	2742.56	1940.43	2742.75	1940.44	2753.38	1940.59
2759.69	1940.67	2766.43	1940.59	2779.51	1940.36	2780.73	1940.33	2796.51	1940.48
2798.79	1940.58	2810.87	1941	2817.38	1941	2821.28	1940.84	2844.19	1940
2855.54	1939.69	2892.38	1939	2900.7	1939	2908.15	1938.56	2917.28	1938
2923.55	1938	2926.16	1938.03	2928.24	1938	2936.6	1938.01	2941.32	1938.01
2941.95	1938	2977.55	1938	2987.31	1938.52	2990.01	1938.54	3001.76	1938.68
3022.33	1938.95	3025.27	1939	3028.08	1939.7	3033.89	1941.07	3037.87	1942
3042.53	1943	3047.35	1943	3052.07	1941.86	3055.96	1940.83	3060.33	1939.65
3062.77	1939	3066.43	1938	3069.69	1937.1	3070.09	1937	3093.32	1937
3119.98	1938	3146.35	1938	3181.43	1937.15	3187.08	1937	3191.79	1937
3204.74	1937.01	3216.57	1937.01	3220.95	1937.02	3226.6	1937.02	3230.03	1937.01
3236.87	1937.01	3240.71	1937	3244.28	1936.98	3248.3	1936.94	3249.42	1936.95
3254.68	1936.92	3258.14	1936.93	3276.38	1936.9	3279.32	1936.9	3286.97	1936.92
3305.01	1936.87	3312.14	1936.87	3315.87	1936.89	3319.1	1936.86	3321.22	1936.85
3323.26	1936.86	3327.88	1936.91	3331.65	1936.92	3332.42	1936.91	3335.09	1936.94
3339.82	1936.71	3342.65	1936.65	3344.76	1936.55	3348.65	1936.35	3351.49	1936.26
3355.64	1936	3361.89	1935.53	3369.54	1935	3372.26	1934.98	3380.72	1934.8
3382.96	1934.79	3407.1	1934.54	3411.37	1934.46	3414.31	1934.52	3437	1934.71
3442.04	1934.79	3445.75	1934.8	3451.55	1934.98	3453.77	1934.98	3461.61	1935
3470.07	1935.13	3473.49	1935.22	3497.66	1936	3498.86	1936	3507.22	1936.36
3512.31	1936.57	3525.05	1937	3566.17	1937	3596.82	1937.44	3617.44	1937.73
3620.19	1937.75	3627.1	1937.71	3636.49	1937.65	3640	1937.66	3640.72	1937.64
3644.22	1937.65	3647.94	1937.62	3655.13	1937.9	3657.05	1937.98	3662.52	1937.98
3672.15	1938	3675.23	1938.04	3679.25	1938.06	3682.74	1938	3691.98	1937.3
3695.54	1937	3696.66	1937	3720.61	1936.26	3727.25	1936	3732.63	1935.7
3744.93	1935	3790.14	1935	3804.08	1934.99	3810	1934.99	3810.6	1935
3852.64	1935	3902.43	1935.51	3926.73	1935.76	3935	1935.86	3945.52	1935.98
3947.77	1936.02	3953.79	1936.04	3978.34	1936.22	3987.72	1936.26	4024.56	1936.69
4055.85	1936.18	4062.99	1936	4063.31	1936	4079.21	1935.54	4093.52	1935
4103.51	1934.4	4110.27	1934	4126.41	1934	4134.1	1935	4138.67	1936
4142.81	1936.65	4145.33	1937	4148.76	1937.21	4161.91	1938	4165.14	1938.21
4177.01	1939	4181.15	1939.31	4190.77	1940	4192.62	1940.03	4194.34	1940.01
4199.54	1940	4200.76	1939.99	4209.49	1940.17	4209.98	1940.19	4213.05	1940.25
4223.2	1940.47	4225.98	1940.55	4236.27	1941	4250.79	1941	4251.51	1940.98
4261.19	1940.66	4276.74	1940	4282.74	1939.61	4286.16	1939.49	4292.28	1939.26
4300.92	1939	4307.54	1939	4311.99	1938.99	4317.17	1938.99	4321.3	1939
4331.59	1939	4341.89	1939.67	4344.66	1939.78	4357.62	1939.94	4360.8	1940
4362.53	1940.1	4367.13	1940.43	4374.34	1940.49	4380.4	1940.7	4382.34	1940.69
4387.91	1940.55	4397.91	1940.09	4401.26	1940.05	4404.01	1940.15	4406.33	1940.21
4408.26	1940.21	4414.01	1940.44	4418.72	1940.52	4422.46	1940.61	4429.26	1941
4436.47	1941.7	4439.61	1942	4444.02	1942	4446.01	1942.01	4450.31	1942.01

4460.21	1942	4470.29	1941	4472.51	1940.8	4481.08	1940	4491.4	1939.49
4498.67	1939.12	4501.17	1939	4512.55	1938.41	4515.71	1938.26	4517.24	1938.2
4519.48	1938.16	4523.15	1938	4570.96	1938	4572.13	1938.03	4573.08	1938
4592.52	1938.69	4596.34	1938.82	4601.42	1938.88	4603.42	1938.83	4612.57	1939
4614.94	1939.08	4616.43	1939.01	4619.37	1939	4620.84	1938.9	4629.28	1938.37
4634.34	1938	4635.88	1937.91	4638.04	1937.83	4640.06	1937.73	4657.66	1937
4657.9	1937.01	4667.43	1937.63	4670.71	1937.84	4679.24	1938	4685.09	1938.02
4690.22	1938	4707.89	1937.99	4715.45	1937.98	4720.12	1937.98	4721.72	1937.99
4726.99	1937.99	4744.73	1938	4758.89	1938	4759.5	1938.01	4776.47	1938.09
4779.98	1938.07	4794.7	1938	4800.15	1938	4802.56	1938.1	4804.58	1938.17
4820	1938.45	4827.71	1938.58	4839.04	1938.58	4848.37	1938.6	4854.82	1938.6
4868.14	1938.71	4887.82	1938.88	4893.14	1939	5000.01	1939	5004.07	1938.71
5014.47	1938	5018.07	1937.92	5024.32	1937.74	5049.14	1937	5216.14	1937
5217.34	1937.02	5264.23	1937.27	5292.18	1937.42	5293.08	1937.41	5309	1937.43
5330.05	1937.55	5333.4	1937.56	5342.48	1937.62	5348.18	1937.65	5362.76	1937.75
5363.53	1937.75	5383.41	1937.95	5388.55	1938	5506.33	1938	5529.46	1938.29
5544.53	1938.47	5544.98	1938.47	5551.1	1938.56	5561.13	1938.69	5561.94	1938.69
5580.15	1939	5580.69	1939	5591.56	1938.86	5592.79	1938.85	5633.27	1938.86
5675.61	1938.89	5676.78	1938.9	5683.71	1938.84	5692.59	1938.71	5717.62	1938.23
5728.96	1938	5749.8	1938	5810.08	1937.14	5822.19	1937	5832.57	1937
5839.21	1937.04	5841.13	1937.06	5848.02	1937.1	5849.86	1937.12	5853.36	1937.14
5962.49	1938	5980	1938	5993.44	1938.55	5998.99	1938.74	6007.17	1939
6028.85	1939.36	6036.41	1939.5	6040.85	1939.59	6060.88	1939.94	6064.16	1940
6072.9	1940.29	6079.73	1940.48	6096.92	1941	6120.35	1941.75	6127.36	1941.98
6128.25	1942	6144.83	1942.7	6148.23	1942.85	6152.16	1943	6153.75	1943.01
6156.38	1943.09	6163.1	1943.18	6164.98	1943.25	6168.84	1943.35	6169.16	1943.37
6178.17	1943.67	6187.86	1944	6195.49	1944	6196.96	1944.13	6205.85	1945
6212.03	1945.89	6212.75	1946	6219.9	1947	6226.98	1948	6235.09	1949
6242.52	1949.9	6243.4	1950	6250.41	1950.85	6251.77	1951	6261.02	1951.82
6271.79	1952.75	6274.72	1953	6288.29	1954	6296.5	1954.58	6298.19	1954.68
6299.73	1954.75	6301.93	1954.82	6303.06	1954.84	6312.42	1954.92	6313.05	1954.92
6323.39	1955	6324.55	1955						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
1924.08	.045	1924.08	.04	6324.55	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
1924.08	6324.55	176.03	176.03	176.03	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1939.89	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.11	Wt. n-Val.		0.040	
W.S. Elev (ft)	1939.78	Reach Len. (ft)	176.03	176.03	176.03
Crit W.S. (ft)		Flow Area (sq ft)		8235.03	
E.G. Slope (ft/ft)	0.001824	Area (sq ft)		8235.03	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3666.04	Top Width (ft)		3666.04	
Vel Total (ft/s)	2.72	Avg. Vel. (ft/s)		2.72	
Max Chl Dpth (ft)	5.77	Hydr. Depth (ft)		2.25	
Conv. Total (cfs)	524548.1	Conv. (cfs)		524548.1	
Length Wtd. (ft)	176.03	Wetted Per. (ft)		3667.64	
Min Ch El (ft)	1934.00	Shear (lb/sq ft)		0.26	
Alpha	1.00	Stream Power (lb/ft s)	6324.55	0.00	0.00
Frctn Loss (ft)	0.34	Cum Volume (acre-ft)		2611.15	
C & E Loss (ft)	0.00	Cum SA (acres)		1248.17	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -5101.78

INPUT
Description:
Station Elevation Data num= 435

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
2017.33	1940.05	2029.92	1940.02	2034.56	1940	2043.55	1940	2059.88	1939.77
2064.75	1939.73	2071.21	1939.56	2074.68	1939.48	2091.81	1939	2100.34	1938.03
2100.65	1938	2105.76	1937	2107.93	1936.96	2145.82	1936.85	2182.01	1936.92
2183.44	1936.93	2188.87	1936.89	2202.99	1936.72	2213.97	1936.69	2217.26	1936.69
2240.48	1936.99	2240.9	1937	2337.82	1937	2340.86	1937.13	2355.9	1937.64
2357.73	1937.69	2361.34	1937.77	2365.5	1937.77	2367.96	1937.82	2373.9	1937.69
2401.72	1937.01	2402.07	1937	2464.2	1937	2467.22	1937.03	2480.4	1937.2
2483.24	1937.21	2487.3	1937.26	2492	1937.33	2494.09	1937.34	2502.58	1937.43
2538.41	1937.98	2544.67	1937.99	2575.02	1937.99	2588.86	1938	2603.51	1938
2616.72	1937.99	2630.27	1937.99	2644.41	1937.97	2649.57	1937.98	2654.25	1938
2719.35	1938	2758.69	1939	2853.5	1939	2872.53	1938.03	2873.59	1938
2876.15	1938	2881.85	1938.03	2931.92	1938.93	2933.91	1938.96	2935.46	1939
2939.15	1939	2948.81	1939.01	2960.58	1939	2995.69	1939	2998.97	1939.01
2999.83	1939.04	3005.94	1939.1	3007.98	1939.13	3010.7	1939.21	3024.26	1939.47
3031.27	1939.56	3032.85	1939.56	3042.36	1939	3045.14	1938.97	3046.53	1938.98
3048.85	1938.93	3051.15	1938.91	3053.51	1938.96	3067.92	1938.99	3068.73	1939
3077.98	1939	3086.22	1939.02	3088.42	1939.02	3091.69	1939	3093.37	1938.97

3095.55	1938.96	3104.75	1938.57	3111.08	1938.26	3112.78	1938.2	3116.96	1938
3147.09	1938	3158.22	1938.46	3168.12	1939	3170.86	1939.19	3185.2	1940
3189.58	1940.26	3201.69	1941	3212.62	1941	3217.36	1941.01	3225.88	1941.01
3232.12	1941	3241.75	1940.13	3243.38	1940	3249.64	1939.54	3252.14	1939.37
3257	1939	3259.95	1938.73	3268.12	1938	3277.78	1937	3291.71	1937
3295.45	1937.01	3299.58	1937.03	3301.75	1937.03	3304.07	1937.05	3305.99	1937.05
3317.62	1937.01	3324.8	1937	3427.67	1937	3429.16	1936.99	3435.01	1937
3450.39	1937.4	3451.2	1937.41	3461.86	1937.69	3472.3	1937.74	3475.03	1937.73
3482.22	1937.75	3483.99	1937.77	3495.12	1937.94	3499.64	1937.99	3501.02	1937.99
3507.91	1937.79	3509.7	1937.72	3513.11	1937.62	3528.81	1937	3638.9	1937
3652.17	1937.01	3658.16	1937.02	3660.21	1937.03	3666.85	1937.03	3672.01	1937.18
3683	1937.13	3686.27	1937	3693.49	1936.51	3702.04	1936.01	3702.47	1936
3704.64	1935.84	3715.75	1935.14	3717.83	1935	3722.95	1935	3726.58	1934.99
3731.52	1934.99	3736.61	1934.98	3752.85	1935	3764.87	1935.38	3765.63	1935.38
3773.57	1935.5	3788.3	1935.71	3794.48	1935.81	3799.43	1935.91	3803.62	1935.96
3805.94	1936	3813.95	1936.01	3826.52	1936.12	3843.54	1936.25	3852.69	1936.3
3858.6	1936.35	3867.04	1936.39	3867.41	1936.4	3873.84	1936.42	3881.41	1936.46
3886.24	1936.51	3899.85	1936.64	3907.96	1936.71	3910.04	1936.72	3934.21	1936.77
3939.28	1937	3981.89	1937	4003.79	1936.62	4012.71	1936.48	4033.02	1936.14
4037.62	1936.06	4041.67	1936	4046.14	1935.85	4062.29	1935.34	4070.38	1935
4099.41	1934.89	4102.97	1934.89	4128.81	1934.9	4132.1	1935	4252.14	1935
4252.98	1935.01	4256.7	1935.01	4266.16	1935.11	4281.08	1935.22	4284.95	1935.23
4296.04	1935.25	4303.2	1935.32	4319.48	1935.56	4322.3	1935.58	4326.44	1935.59
4331	1935.61	4335.44	1935.47	4341.96	1935.25	4346.62	1935	4349.34	1934.98
4353.02	1934.92	4354	1934.88	4371.83	1934.19	4378.41	1934	4378.57	1933.96
4380	1933.92	4381.65	1933.93	4383.74	1934	4387.12	1934.73	4388.44	1935
4390.38	1935.5	4391.25	1936	4393.8	1936.24	4397.17	1937	4403.33	1937.77
4405.22	1938	4407.46	1938.18	4416.43	1939	4427.82	1939.86	4429.43	1940
4431.82	1940.03	4435.35	1940.1	4437.43	1940.12	4443.2	1940.1	4452.82	1940
4457.85	1939.83	4459.88	1939.81	4462.98	1939.75	4468.27	1939.56	4475.12	1939.36
4483.05	1939	4505.55	1939	4515.15	1939.45	4516.54	1939.49	4520.31	1939.67
4526.62	1940	4528.25	1940.02	4529.97	1940.02	4532.13	1940	4533.65	1939.89
4536.83	1939.74	4538.56	1939.68	4548.31	1939.65	4548.94	1939.63	4551.51	1939.62
4555.81	1939.63	4558.76	1939.67	4560.45	1939.76	4563.35	1940	4564.9	1940.08
4567.24	1940.08	4569.67	1940.05	4570.91	1940	4582.64	1939.58	4595.62	1939
4598.97	1938.99	4601.3	1939	4617.01	1939.11	4623.95	1939.06	4631.63	1939
4635.22	1939	4640.59	1940	4646.09	1940.93	4646.69	1941.01	4649.97	1941.37
4651.9	1941.57	4654.66	1941.75	4657.48	1941.89	4659.03	1941.93	4660.43	1941.92
4662.83	1941.83	4665.28	1941.69	4668.64	1941.48	4672.11	1941.22	4674.76	1941
4686.2	1940	4693.1	1939.42	4698.03	1939	4704.21	1938.56	4706.38	1938.4
4713.19	1938	4717.89	1937.87	4720.74	1937.76	4727.59	1937.62	4733.39	1937.43
4734.08	1937.4	4740.17	1937.23	4748.61	1937.11	4755.84	1937	4759.99	1937
4763.62	1937.3	4772.27	1938	4786.59	1939.17	4791.69	1939.27	4795.93	1939.31
4797.01	1939.35	4806.32	1939.35	4808.71	1939.33	4810.59	1939.29	4814.31	1939.12
4816.36	1939	4820.76	1938.68	4822.89	1938.56	4826.5	1938.29	4829.19	1938.01
4830.75	1937.77	4833.93	1937.19	4835.54	1937.01	4839.19	1937.22	4841.43	1937.3
4843.83	1937.37	4851.46	1937.63	4855.61	1937.74	4856.58	1937.75	4859.43	1937.83
4863.22	1937.82	4866.46	1937.79	4869.03	1937.75	4872.9	1937.67	4876.88	1937.6
4880.74	1937.52	4888.88	1937.16	4899.62	1937.04	4902.78	1937.02	4903.38	1937
4912.95	1937	4921.82	1937.73	4928.2	1938	4942.15	1938.62	4944.87	1938.76
4950.33	1939	4970.69	1939	4986.28	1938.89	4990.06	1938.76	4990.33	1938.74
4995.11	1938.61	4996.42	1938.59	5008.85	1938.06	5010.59	1938	5015.6	1938.01
5020.31	1938	5063.23	1938	5064.59	1938.12	5073.4	1939	5199.19	1939
5236.05	1938.2	5244.17	1938	5248.15	1937.89	5265.86	1937.43	5282.19	1937
5364.18	1937	5370.3	1936.74	5378.68	1936.73	5386.94	1936.73	5397.1	1937
5539.46	1937	5555.46	1936.86	5572.31	1936.92	5591.66	1936.98	5595.05	1937
5677.84	1937	5678.19	1937.01	5683.5	1937.04	5685.52	1937.04	5689	1937.13
5690.14	1937.13	5693.76	1937.17	5694.51	1937.19	5697.52	1937.19	5698.31	1937.21
5702.15	1937.22	5712.8	1937.28	5733.59	1937.43	5739.27	1937.48	5749.12	1937.59
5750.3	1937.59	5782.45	1937.84	5803.23	1938	5923.8	1938	5958.72	1937.3
5965.74	1937.17	5969.85	1937.15	5975.02	1937.1	5984.63	1937	6210.29	1937
6211.84	1937.05	6214.38	1937.11	6226.86	1937.45	6247.44	1938	6260.58	1938.71
6266.84	1939	6271.18	1939.27	6282.47	1940	6290.58	1940.89	6300.29	1942
6307.25	1942	6307.68	1941.96	6308.14	1942	6308.97	1942.17	6312.4	1943
6315.79	1943.5	6319.28	1944	6324.28	1944.68	6332.17	1945.82	6333.48	1946
6339.9	1947	6347.54	1948.16	6356.73	1949.61	6363.88	1950.61	6367.33	1951
6374.45	1951.68	6377.86	1952	6389.15	1952.91	6390.35	1953	6394.07	1953.25
6406.17	1954	6423.63	1954	6426.89	1953.93	6429.03	1954	6467.96	1954
6474.04	1953.87	6485.25	1953.76	6494.72	1953.73	6496.3	1953.75	6504.18	1953.91
6507.99	1954	6512.33	1954	6524.99	1954.86	6526.95	1955	6540.4	1955

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
2017.33	.045	2017.33	.04	6540.4	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
2017.33	6540.4	193.29	193.29	193.29	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1939.55	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.12	Wt. n-Val.		0.040	
W.S. Elev (ft)	1939.43	Reach Len. (ft)	193.29	193.29	193.29
Crit W.S. (ft)		Flow Area (sq ft)		8121.41	
E.G. Slope (ft/ft)	0.002096	Area (sq ft)		8121.41	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3930.25	Top Width (ft)		3930.25	
Vel Total (ft/s)	2.76	Avg. Vel. (ft/s)		2.76	

Max Chl Dpth (ft)	5.51	Hydr. Depth (ft)		2.07	
Conv. Total (cfs)	489304.5	Conv. (cfs)		489304.5	
Length Wtd. (ft)	193.29	Wetted Per. (ft)		3931.99	
Min Ch El (ft)	1933.92	Shear (lb/sq ft)		0.27	
Alpha	1.00	Stream Power (lb/ft s)	6540.40	0.00	0.00
Frctn Loss (ft)	0.40	Cum Volume (acre-ft)		2578.10	
C & E Loss (ft)	0.00	Cum SA (acres)		1232.82	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -5295.07

INPUT
Description:
Station Elevation Data num= 424

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
1885.07	1939.6	1919.36	1939.49	1988.03	1939.2	2014.68	1939	2017.01	1939
2019.59	1938.75	2021.94	1938.49	2026.81	1938	2034.09	1937.29	2036.91	1937
2045.44	1936	2047.56	1935.98	2057.59	1935.81	2137.82	1935.83	2139.71	1935.84
2156.82	1936	2181.02	1936.92	2182.94	1937	2210.53	1937	2231.3	1936.83
2254.61	1936.66	2256.05	1936.67	2292.99	1937	2621.29	1937	2628.56	1937.06
2633.3	1937.09	2636.78	1937.2	2650.78	1937.55	2655.08	1937.6	2664.6	1937.66
2671.52	1937.64	2673.77	1937.62	2678.44	1937.56	2683.85	1937.57	2690.25	1937.66
2694.7	1937.7	2697.25	1937.69	2698.25	1937.72	2703.68	1937.68	2705.46	1937.73
2716.13	1937.76	2717.51	1937.79	2729.73	1937.86	2742.33	1937.99	2743.78	1938
2758.64	1938.41	2760.62	1938.47	2777.15	1939	2823.47	1939	2843.45	1938.14
2849.29	1938	2863.62	1938	2869.78	1937.99	2899.13	1937.99	2909.74	1938
2917.81	1938	2928.93	1938.59	2931.4	1938.71	2933.96	1938.79	2937.16	1938.77
2939.79	1938.8	2944.41	1938.77	2946.01	1938.73	2946.85	1938.76	2948.26	1938.7
2948.82	1938.73	2953.41	1938.53	2958.63	1938.64	2962.36	1938.67	2965.25	1938.63
2975.17	1938.41	2984.23	1938.14	2988.6	1938	2992.8	1937.99	3007.72	1937.72
3009.16	1937.7	3020.53	1937.66	3030.88	1937.63	3042.95	1937.15	3047.11	1937
3067.81	1937	3077.91	1937.32	3088.13	1937.73	3094.5	1938	3109.02	1938.28
3114.51	1938.41	3140.08	1939	3149.37	1939.1	3156.74	1939.16	3164.7	1939.09
3172.8	1939.14	3174.7	1939.11	3175.96	1939.19	3176.76	1939.18	3177.5	1939.25
3178.57	1939.24	3181.09	1939.33	3181.78	1939.38	3188.71	1939.65	3195.51	1939.77
3198.28	1939.89	3199.69	1939.91	3201.02	1939.83	3205.29	1939.17	3211.67	1938
3215.69	1937	3223.81	1937	3225.59	1937.03	3233.7	1937.08	3241.08	1937.56
3244.12	1938	3246.02	1938.2	3246.97	1938.24	3250.55	1938.51	3254.22	1938.55
3257.06	1938.5	3258.01	1938.46	3261.67	1938.37	3266.6	1938.05	3269.71	1938
3271.6	1937.73	3280.37	1937	3357.05	1937	3366.48	1936.99	3372.45	1937
3387.87	1937	3403.22	1936.99	3441.18	1936.99	3447.88	1937	3656.76	1937
3666.91	1937.2	3703.61	1937.81	3706.45	1938	3722.56	1938	3731.34	1937.94
3751.43	1937.2	3754.81	1937.09	3759.5	1937	3772.59	1936.51	3785.45	1936.02
3787.91	1936	3792.4	1935.53	3798.3	1935	3806.98	1934.07	3808.18	1934
3849.62	1934	3860.07	1934.41	3869.67	1934.81	3874.39	1935	3877.97	1935.02
3909.69	1935.91	3913.01	1936	3920.16	1936.01	3938.91	1936.02	3950.18	1936.02
3963.69	1936.01	3972.54	1936.06	3987.34	1936.04	4002.9	1936.01	4006.11	1936.01
4019.98	1936.04	4031.65	1936.05	4037.12	1936.1	4106.15	1936.8	4107.51	1936.82
4120.67	1936.95	4123.57	1936.97	4125.11	1937	4133.2	1937	4147.8	1936.74
4150.71	1936.67	4157.84	1936.46	4172.6	1936	4176.66	1936	4180.65	1935.98
4198.43	1935.52	4212.3	1935.03	4214.37	1935.03	4220.54	1935	4225.26	1934.96
4238.18	1934.37	4243.44	1934.16	4245.06	1934.11	4246.79	1934.01	4255.35	1933.98
4265.47	1933.99	4274.6	1933.98	4285.06	1934	4286.83	1934.02	4293.38	1933.99
4307.42	1934.01	4309.71	1934.07	4325.2	1934.2	4328.7	1934.29	4334.44	1934.36
4339.71	1934.52	4344.55	1934.58	4350.17	1934.74	4352.61	1934.78	4354.07	1934.83
4366.51	1934.92	4367.01	1934.94	4375.17	1934.97	4377.59	1935	4398.81	1935
4409.63	1935.02	4417.32	1935.05	4422.69	1935.05	4423.98	1935.06	4433.6	1935.07
4439.14	1935.1	4450.54	1935.01	4451.98	1935.05	4456.51	1936	4462.26	1937.23
4465.78	1938	4474.72	1938.89	4475.45	1939	4482.17	1940.17	4483.21	1940.33
4486.04	1940.68	4487.2	1940.78	4488.8	1940.86	4489.69	1940.86	4498.9	1941
4503.16	1941.09	4504.22	1941.15	4506.23	1941.11	4511.11	1941.26	4520.08	1941.45
4528.92	1941.81	4530.45	1941.85	4534.06	1942	4539.96	1942.21	4542.19	1942.31
4552.41	1942.72	4556.27	1942.9	4559.33	1943	4568.4	1943.02	4581.8	1943.54
4583.87	1943.59	4594.23	1944	4596.58	1944	4602.61	1943	4618.82	1940.29
4620.36	1940	4627.12	1939.54	4632.7	1939.25	4640.47	1939	4646.37	1938.89
4653.37	1938.74	4668.75	1938.35	4681.11	1938	4694.68	1937	4722.95	1937
4746.28	1936	4750.38	1935.98	4764.74	1935.95	4776.11	1935.99	4777.1	1936
4786.53	1936.25	4801.8	1936.98	4804.22	1936.99	4810.9	1936.99	4814.77	1937
4836.25	1937	4843.98	1936.99	4847.66	1937	4854.12	1937	4855.53	1937.01
4857.99	1937.14	4862.26	1937.23	4870.59	1937.34	4871.91	1937.28	4874.93	1937.22
4876.47	1937.27	4886.62	1937.3	4895.01	1937.04	4895.46	1937.05	4899.37	1937
4901.08	1937	4908.72	1938	4909.61	1938.01	4913.17	1938.4	4917.15	1938.74
4919.85	1939	4923.9	1939	4929.66	1938.36	4932.4	1938.01	4932.8	1938
4935.24	1937.7	4940.51	1937.02	4941.14	1937	4958.1	1937	4958.2	1937.01
4974.26	1938.07	4987.81	1939	5004.33	1939	5013.97	1938.22	5016.85	1938
5089.45	1938	5119.5	1938.6	5120.26	1938.6	5155.83	1938.87	5172.29	1939
5225.75	1939	5226.47	1938.96	5246.05	1938	5247.51	1937.99	5289.87	1937.03
5291.32	1937	5335.23	1937	5335.6	1936.99	5346.98	1936.88	5369.13	1936.6
5374.85	1936.55	5387.92	1936.42	5394.38	1936.33	5404.34	1936.24	5418.51	1936
5432.73	1936	5435.64	1936.06	5438.75	1936.03	5441.7	1936.04	5451.13	1936.03
5456.8	1936	5483.92	1936	5502.05	1935.99	5523.15	1936	5530.86	1936
5539.89	1936.03	5553.5	1936.06	5568.44	1936.08	5578.44	1936.14	5587.42	1936.17

5595.13	1936.26	5620.66	1936.57	5628.55	1936.57	5636.16	1936.77	5641.82	1936.78
5645.14	1936.8	5655.75	1936.92	5657.46	1936.92	5660.53	1936.96	5664.05	1936.98
5672.63	1936.88	5675.31	1936.86	5687.79	1936.88	5693.48	1936.9	5701.14	1936.9
5714.92	1936.97	5723.13	1937	5754.59	1937	5771.73	1937.01	5787.11	1937.07
5821.2	1937.16	5830.72	1937.13	5833.48	1937.14	5837.12	1937.12	5840.64	1937.12
5877.36	1937.03	5886.05	1937	6099.05	1937	6099.14	1937.01	6118.56	1937.5
6139.64	1937.96	6141.25	1938	6167.05	1939	6186.46	1939.9	6188.27	1940
6209.43	1940.83	6213.15	1941	6237.82	1941.64	6238.88	1941.66	6252.6	1941.98
6254.83	1942	6265.85	1943	6271.19	1943.43	6277.13	1944	6279.01	1944.25
6282.75	1944.79	6284.24	1944.99	6286.51	1945.2	6303.19	1946.58	6312.02	1946.99
6316.61	1947	6324.09	1946.76	6327.53	1947	6329.52	1947.49	6331.38	1948
6334.55	1948.9	6336.96	1949.39	6343.01	1950	6347.54	1950.42	6348.55	1950.56
6352.94	1951	6359.08	1951.29	6359.92	1951.35	6364.14	1951.38	6366.19	1951.37
6370.15	1951.28	6383.35	1951.06	6385.67	1951	6398.79	1950.26	6409.91	1949.49
6410.74	1949.47	6415.26	1949.44	6417.36	1949.33	6420.68	1949.34	6424.33	1949.23
6426.31	1949.27	6429.68	1949.25	6433.62	1949.31	6450.49	1950	6453.6	1950.18
6466.43	1951	6475.24	1952	6479.08	1952.51	6482.18	1953	6487.25	1953.54
6490.42	1953.86	6491.91	1953.98	6493.92	1954	6503.39	1954		

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
1885.07	.045	1885.07	.04	6503.39	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
1885.07	6503.39	150.65	150.65	150.65	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1939.15	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.12	Wt. n-Val.		0.040	
W.S. Elev (ft)	1939.03	Reach Len. (ft)	150.65	150.65	150.65
Crit W.S. (ft)		Flow Area (sq ft)		8195.64	
E.G. Slope (ft/ft)	0.002033	Area (sq ft)		8195.64	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3929.71	Top Width (ft)		3929.71	
Vel Total (ft/s)	2.73	Avg. Vel. (ft/s)		2.73	
Max Chl Dpth (ft)	5.05	Hydr. Depth (ft)		2.09	
Conv. Total (cfs)	496820.7	Conv. (cfs)		496820.7	
Length Wtd. (ft)	150.65	Wetted Per. (ft)		3931.52	
Min Ch El (ft)	1933.98	Shear (lb/sq ft)		0.26	
Alpha	1.00	Stream Power (lb/ft s)	6503.39	0.00	0.00
Frctn Loss (ft)	0.29	Cum Volume (acre-ft)		2541.90	
C & E Loss (ft)	0.00	Cum SA (acres)		1215.39	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -5445.72

INPUT
Description:
Station Elevation Data num= 423

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
1946.57	1939	1947.62	1939.01	1997.84	1939.01	2017.18	1939	2027.01	1938
2037.86	1937.03	2045.41	1936.19	2046.94	1936	2048.09	1935.78	2051.64	1935
2121.75	1935	2134.64	1935.12	2219.41	1935.79	2226.74	1935.99	2227.77	1936
2287.44	1936.67	2300.14	1936.79	2320.58	1937	2510.85	1937	2520.65	1937.92
2521.91	1938	2526.56	1938	2532.05	1937.63	2544.66	1937	2564.77	1937
2580.26	1937.11	2580.84	1937.12	2594.58	1937.17	2606.04	1937.19	2608.19	1937.2
2619.64	1937.49	2634.09	1937.92	2643.67	1937.94	2662.08	1937.61	2665.68	1937.56
2673.13	1937.41	2679.39	1937.33	2693.27	1937	2698.09	1936.99	2720.12	1936.4
2726.36	1936.31	2729.23	1936.39	2736.44	1936.77	2738.66	1937	2740.65	1937.1
2756.36	1938	2764.31	1938.34	2770.2	1938.62	2777.56	1938.99	2785.05	1938.99
2788.62	1939	2797.16	1939	2797.32	1938.99	2817.32	1938.35	2818.74	1938.32
2824.35	1938.15	2828.22	1938.02	2830.24	1938.04	2834.27	1938.14	2870.39	1939
2894.11	1939	2906.44	1938.97	2919.07	1939	2945.62	1939	2959.41	1938.99
2974.36	1939	2977.72	1938.87	2982.23	1938.55	2989.32	1938	3047.89	1938
3057.11	1937.99	3065.66	1937.99	3079.42	1938	3103.58	1938	3107	1938.15
3113.25	1938.59	3118.82	1939	3140.95	1939.01	3160.6	1939	3167.67	1938.63
3178.15	1938	3188.78	1937.46	3195.81	1937.01	3209.33	1936	3219.62	1935.54
3223.33	1935.34	3230.04	1935	3246.31	1934.99	3257.4	1934.99	3263.12	1935
3266.51	1936	3267.44	1936.3	3269.37	1936.8	3273.27	1937.65	3275.11	1938
3275.87	1938.19	3279.6	1939	3283.53	1939.78	3285.99	1940.13	3288.72	1940.31
3293.49	1940.41	3295.74	1940.41	3298.46	1940.32	3300.41	1940.21	3302.95	1940
3305.59	1939.69	3312.78	1938.89	3320.63	1938.15	3330.07	1937	3336.45	1936.52
3337.65	1936.52	3338.85	1936.44	3348.83	1936.23	3352.5	1936.16	3365.03	1936.22
3368.56	1936.27	3374.85	1936.39	3382.29	1936.38	3385.66	1936.45	3391.62	1936.6
3400.19	1936.76	3402.17	1936.82	3408.49	1936.88	3410.91	1936.94	3412.41	1936.94
3415.4	1937	3624.88	1937	3628.21	1937.1	3629.58	1937.12	3637.3	1937.32
3640.71	1937.35	3643.4	1937.4	3650.6	1937.49	3653.65	1937.51	3680.56	1937.8
3690.25	1937.93	3694.69	1937.92	3696.86	1937.87	3705.02	1937.72	3723.41	1937.33
3724.44	1937.3	3740.73	1937.01	3742	1937	3820.89	1937	3822.38	1936.93
3838.83	1936	3847.82	1935.82	3848.86	1935.79	3862.32	1935.51	3869.8	1935.45
3882.02	1935.28	3894.77	1935.04	3902.63	1935	3918.7	1934.54	3926.26	1934.24

3931.18	1934	3958.4	1933.98	3985.61	1934	3999.35	1934.56	4000.36	1934.56
4003.72	1934.65	4014.4	1934.74	4024.79	1934.87	4032.51	1935	4114.93	1935
4153.58	1935.37	4156.28	1935.38	4167.49	1935.32	4181.3	1935.23	4199.92	1935.23
4200.12	1935.24	4211.5	1935.29	4221.92	1935.35	4249.48	1935.41	4272.62	1935.45
4277.12	1935.45	4284.1	1935.48	4314.1	1935.35	4364.99	1935.01	4368.91	1935
4380.54	1934.89	4381.63	1934.89	4411.76	1934.24	4424.75	1934	4491.84	1934
4500.75	1934.95	4501.37	1935	4506.07	1935	4506.24	1934.98	4518.48	1934
4522.91	1934	4528.13	1934.66	4530.48	1935	4559.23	1935	4568.69	1935.6
4572.47	1935.66	4575.79	1935.65	4578.24	1935	4579.63	1934.13	4580.4	1934
4585.45	1935	4588.44	1935.56	4591.78	1936	4599.59	1936.34	4602.48	1936.43
4609.62	1936.71	4614.28	1936.75	4616.88	1936.96	4619.01	1936.97	4629.76	1936.93
4638.56	1936.97	4650.88	1936.97	4651.76	1936.98	4660.03	1936.98	4672.05	1937
4673.66	1937.13	4686.95	1938	4694.78	1939	4701.85	1939.8	4703.02	1939.89
4704.93	1939.89	4707.52	1939.66	4721.08	1938	4731.81	1937.11	4732.72	1937
4739.71	1936.99	4744.78	1936.97	4756.9	1937	4764.56	1937.59	4770.24	1938
4776.75	1938.03	4780.73	1938.02	4785.3	1938.45	4785.6	1938.43	4788.03	1938.63
4791.26	1938.96	4801.87	1939.53	4802.27	1939.57	4805.59	1939.7	4807.59	1939.47
4809.89	1939.1	4811.73	1939	4815.95	1938.32	4818.63	1937.85	4823.96	1937
4825.88	1936.96	4832.46	1936.73	4839.79	1936.55	4843.99	1936.5	4851.36	1936.55
4861.21	1936.63	4873.7	1937	4876.84	1937.24	4878.33	1937.28	4880.61	1937.43
4882.78	1937.45	4888.1	1937.76	4890.21	1937.74	4913.69	1938	4932.48	1938
4937.06	1938.06	4942.01	1938.23	4948.69	1938.39	4957.42	1938.41	4967.53	1938.45
4978.12	1938.53	4988.46	1938.57	5003.95	1938.81	5011.92	1939	5030.68	1939.01
5042.92	1939	5056.39	1939	5067.92	1938.37	5070.59	1938.25	5074.31	1938
5084.8	1937.69	5089.79	1937.58	5105.04	1937.43	5114.28	1937.35	5126.02	1937.4
5143.31	1937.51	5144.57	1937.53	5161.37	1937.61	5173.71	1937.65	5175.65	1937.65
5179.92	1937.61	5185.54	1937.54	5187.15	1937.54	5198.81	1937.71	5204.46	1937.71
5220.47	1937.99	5230.38	1937.99	5236.91	1937.98	5250.18	1938	5255.58	1938
5263.31	1937.98	5269.1	1937.99	5270.16	1937.95	5286.62	1937.56	5289.23	1937.47
5301.34	1937	5353.91	1937	5386.69	1937.22	5386.96	1937.23	5407.3	1937.34
5414.09	1937.37	5439.05	1937.29	5472.66	1937.16	5478.45	1937.02	5481.09	1937
5494.31	1936.99	5527.42	1936.51	5529.27	1936.46	5551.58	1936	5552.58	1936
5561.5	1935.9	5578.33	1935.74	5592.57	1935.58	5602.96	1935.48	5610.05	1935.4
5650.99	1935.27	5675.63	1935.24	5685.5	1935.32	5711.95	1935.51	5713.04	1935.51
5730.87	1935.63	5731.61	1935.63	5764.08	1935.8	5789.6	1935.99	5799.1	1936
5814.9	1936.16	5828.26	1936.27	5834.84	1936.3	5853.4	1936.35	5866.5	1936.34
5871.78	1936.33	5874.85	1936.31	5885.52	1936.28	5892.97	1936.27	5900.16	1936.27
5914.54	1936.2	5916.1	1936.21	5933.93	1936	5980.68	1936	6007.67	1936.61
6013.12	1936.71	6030.46	1937	6040.31	1937.01	6047.85	1937	6068.76	1937
6078.59	1937.24	6109.76	1938.06	6122.96	1938.4	6128.56	1938.53	6136.41	1938.66
6139.55	1938.75	6143.23	1938.82	6155.88	1939.04	6171.08	1939.36	6175.33	1939.46
6189.1	1940	6197.71	1940.3	6216.5	1941	6222.15	1941.53	6227.88	1942
6231.89	1942.31	6240.1	1943	6243.69	1943.46	6246.92	1944	6251.6	1944.99
6255.52	1945.44	6258.14	1945.7	6260.53	1946	6267.58	1947	6268.51	1947.5
6269.85	1948	6273.54	1948.66	6281.33	1950	6292.01	1951.81	6293.08	1952
6296.4	1952.01	6297.6	1952.12	6306.38	1951.37	6308.33	1951.24	6311.38	1950.98
6315.07	1950.59	6318.97	1950	6321.8	1949.96	6324	1949.96	6325.09	1950
6332.04	1950.61	6335.05	1950.7	6337.85	1950.62	6344.06	1950.32	6345.69	1950.29
6349.22	1950.58	6350.47	1950.65	6353.86	1951	6358.58	1951.53	6369	1952.51
6372.72	1952.81	6373.51	1952.84	6374.75	1952.78	6376.44	1952.88	6381.63	1952.76
6396.01	1952.92	6401.58	1952.97	6403.06	1953	6439.3	1953	6448.29	1953.69
6450.78	1953.82	6452.34	1953.82	6453.95	1953.71	6455.21	1953	6455.81	1953
6460.5	1953.6	6464.29	1954	6469.48	1954.61	6473.01	1955	6481.76	1955
6490.66	1954.45	6499.6	1954	6503.4	1953.98				

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
1946.57	.045	1946.57	.04	6503.4	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
1946.57	6503.4	118.41	118.41	118.41	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1938.86	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.11	Wt. n-Val.		0.040	
W.S. Elev (ft)	1938.75	Reach Len. (ft)	118.41	118.41	118.41
Crit W.S. (ft)		Flow Area (sq ft)		8391.48	
E.G. Slope (ft/ft)	0.001781	Area (sq ft)		8391.48	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3774.65	Top Width (ft)		3774.65	
Vel Total (ft/s)	2.67	Avg. Vel. (ft/s)		2.67	
Max Chl Dpth (ft)	4.77	Hydr. Depth (ft)		2.22	
Conv. Total (cfs)	530744.4	Conv. (cfs)		530744.4	
Length Wtd. (ft)	118.41	Wetted Per. (ft)		3777.21	
Min Ch El (ft)	1933.98	Shear (lb/sq ft)		0.25	
Alpha	1.00	Stream Power (lb/ft s)	6503.40	0.00	0.00
Frctn Loss (ft)	0.19	Cum Volume (acre-ft)		2513.21	
C & E Loss (ft)	0.00	Cum SA (acres)		1202.06	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -5564.13

INPUT
Description:
Station Elevation Data num= 423

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
1961.37	1939	2008.09	1939	2032.14	1938	2040.17	1937.13	2050.25	1936
2053.77	1935.9	2077.73	1935.09	2080.26	1935	2098.9	1935	2102.58	1935.01
2178.15	1935.01	2183.96	1935	2204.83	1935.01	2218.93	1935.01	2219.1	1935.02
2230.17	1935.02	2255.68	1935.66	2266.54	1935.93	2271.43	1936.08	2282.56	1936.45
2282.86	1936.45	2288.59	1936.62	2293.57	1936.74	2306.49	1936.51	2334.21	1936
2342.29	1936	2356.84	1936.08	2359.13	1936.17	2381.34	1937	2567.37	1937
2587.45	1936.8	2618.27	1936.52	2618.78	1936.52	2636.32	1936.73	2658.49	1937
2718.68	1937	2725.92	1937.23	2734.73	1937.46	2743.78	1937.64	2750.94	1937.76
2761.57	1937.95	2763.74	1938	2769.72	1938.01	2786.92	1938.01	2793.71	1938
2798.87	1938.22	2800.64	1938.24	2806.51	1938.39	2810.6	1938.47	2823.33	1939
2888.53	1939	2914.08	1938.48	2916.84	1938.43	2937.21	1938	2951.04	1937.99
2955.89	1937.98	2967.87	1937.99	2971.27	1938	3010.54	1938	3014.47	1937.56
3018.61	1937	3023	1936.52	3025.38	1936.57	3028.52	1936.73	3031.84	1937
3040.16	1937.01	3046.03	1937	3052.33	1937	3055.11	1937.09	3058.22	1937.22
3060.55	1937.34	3070.17	1938	3072.58	1938.02	3074.98	1938.02	3080.65	1938.11
3096.26	1938.3	3111.39	1938.38	3122.53	1938.24	3140.04	1938	3163.01	1938
3167.33	1937.82	3170.76	1937.66	3185.84	1937	3239.3	1937	3245.15	1936.54
3246.28	1936.44	3251.84	1936	3265.23	1935.27	3265.66	1935.27	3270	1935.12
3273.81	1935.27	3276.71	1935.34	3280.26	1935.53	3283.9	1935.68	3288.77	1936
3297.23	1936.76	3300.01	1937	3307.05	1937.42	3310.98	1937.62	3314.22	1937.77
3320.54	1938	3325.2	1938.15	3328.54	1938.31	3333.79	1938.99	3347.38	1938.97
3353.64	1939	3354.61	1939.1	3356.35	1939.12	3358.31	1939.08	3363.12	1938
3368.06	1937.28	3370.57	1937	3373.83	1936.7	3377.95	1936.34	3379.3	1936.24
3381.35	1936	3385.36	1935.8	3404.17	1935	3411.31	1935	3426.53	1936
3435.41	1936.01	3438.35	1936	3479.46	1936	3480.32	1936.01	3492.19	1936.3
3503.91	1936.56	3504.41	1936.58	3509.45	1936.65	3514.35	1936.7	3526.1	1937
3548.24	1937	3561.06	1936	3561.57	1935.99	3576.44	1935.03	3578.17	1935
3587.41	1934.99	3592.76	1935	3602.05	1935.9	3603.89	1936.09	3611.49	1937
3623.47	1937.63	3630.17	1938	3756.54	1938	3773.01	1937.32	3778.96	1937.11
3782.53	1937	3788.38	1936.99	3806.71	1936.32	3813	1936.1	3819.06	1936
3820.44	1936	3840.29	1935.94	3843.26	1935.92	3850.11	1935.94	3853.83	1935.96
3863.18	1935.99	3879.96	1936.68	3884.31	1936.85	3886.79	1937	3899.08	1937
3907.46	1936.26	3910.52	1936	3911.13	1935.97	3928.42	1935.29	3932.39	1935.22
3934.1	1935.22	3938.94	1935.19	3942.26	1935.16	3948.51	1935	4049.24	1935
4060.14	1934.67	4067.48	1934.36	4075.77	1934	4076.76	1934	4090.42	1933.37
4093.36	1933.22	4098.37	1933	4120.32	1933	4127.92	1933.29	4139.6	1933.71
4146.04	1933.95	4147.85	1934	4187.76	1934	4227.15	1934.98	4227.72	1935
4250.61	1935	4250.79	1934.99	4296.45	1934.99	4299	1935	4525.97	1935
4528.59	1934.96	4531.73	1934.96	4545.06	1934.64	4545.9	1934.63	4557.9	1934.41
4565.51	1934.31	4569.15	1934.28	4576.36	1934.32	4585.88	1934.38	4595.85	1934.43
4599.16	1934.52	4605.52	1934.54	4615.92	1934.88	4619.23	1935	4623.59	1935
4627.22	1934.64	4633.53	1934	4633.63	1934	4645.33	1933.5	4650.9	1933.31
4658.74	1933.01	4659.96	1933	4683.46	1933	4688.57	1933.16	4701.18	1933.52
4713.86	1933.97	4721.88	1934	4733.1	1934	4738.62	1934.01	4745.4	1934.01
4754.95	1933.99	4758.38	1934	4758.94	1934.07	4767.32	1935	4776.85	1935.66
4779.01	1935.8	4783.6	1936	4787.42	1936.12	4795.27	1936.32	4797.32	1936.36
4800.02	1936.35	4803.11	1936.24	4806.7	1936	4810.97	1935.87	4817.4	1935.76
4819.04	1935.72	4826.69	1935.43	4828.01	1935.37	4833.46	1935.03	4837.18	1935
4840.38	1934.99	4846.8	1934.99	4850.36	1935	4854.23	1935.24	4860.66	1935.57
4866.57	1936	4869.37	1936.18	4873.3	1936.35	4875.7	1936.5	4881.61	1937
4883.27	1937.13	4892.98	1938	4895.86	1938.05	4900.95	1938.09	4903.02	1938.13
4905.76	1938.12	4909.23	1938.32	4920.21	1938.32	4921.78	1938.3	4933.17	1938.2
4933.88	1938.18	4939.72	1938.14	4941	1938.1	4945.07	1938.1	4950.9	1938.12
4954.01	1938	4960.37	1938	4968.55	1937.98	4972.56	1937.95	4976.45	1937.97
4978.85	1937.97	4980.25	1938	4990.9	1938.03	4993.85	1938.03	4998.67	1938.01
5005.87	1938	5011.27	1937.97	5019.57	1937.91	5028.32	1937.97	5034.33	1938
5041.87	1938.09	5069.49	1938.15	5093.57	1938.2	5103.96	1938.14	5110.54	1938.13
5142.73	1938.03	5153.41	1938	5188.47	1938	5190.94	1937.99	5199.12	1937.99
5203.26	1938	5219.05	1938	5222.72	1937.83	5239.12	1937.03	5239.55	1937
5242.36	1936.99	5247.06	1936.99	5248.45	1937	5262.75	1937	5264.89	1936.91
5273.72	1936.99	5278.17	1936.98	5287.43	1936.84	5294.35	1936.92	5298.37	1937
5305.34	1937.32	5311.85	1937.65	5316.38	1937.93	5318.15	1938	5328.35	1938.01
5339.92	1938.01	5351.66	1938	5360.29	1938	5366.02	1937.93	5378.63	1937.27
5382.19	1937.1	5385.51	1937	5593.99	1937	5604.97	1936.8	5612.58	1936.69
5660.78	1936.01	5662.34	1936	5676.41	1935.78	5679.44	1935.72	5683.02	1935.67
5686.28	1935.61	5721.12	1935.01	5722.09	1935	5821.27	1935	5841.15	1935.04
5868.04	1935.26	5870.65	1935.32	5874.11	1935.32	5879.85	1935.46	5881.15	1935.48
5887.8	1935.67	5898.4	1936	5900.52	1936.01	5910.77	1936.44	5912.62	1936.51
5914.21	1936.54	5919.69	1936.7	5926.66	1937	5938.18	1937.11	5944.32	1937.08
5949.16	1937.08	5952.41	1937.12	5955.49	1937.14	5960.89	1937.14	5964.64	1937.27
5973.9	1937.35	5981.33	1937.4	5986.88	1937.41	5992.14	1937.4	6003.34	1937.29
6019.83	1937.11	6027.75	1937	6064.87	1936.58	6065.35	1936.57	6088.8	1936.3
6096.14	1936.19	6099.44	1936.15	6104	1936.12	6108.48	1936.11	6125.81	1936.2
6140.85	1936.38	6191.25	1937	6195.3	1937	6204.72	1937.41	6208.66	1937.62
6216.01	1938	6224.01	1938.26	6241.3	1938.84	6246.17	1939	6247.29	1939.06
6267.62	1940	6280.71	1941	6287.35	1941.42	6295.75	1942	6300.83	1943.53
6305.66	1945	6309.29	1946.07	6312.79	1947	6315.44	1947.56	6317.96	1948
6324.62	1948.61	6329.27	1949	6330.17	1949.02	6334	1949.33	6337.16	1949.47
6340.57	1949.51	6342.39	1949.6	6344.76	1949.67	6347.11	1949.8	6359.02	1950
6361.37	1950.12	6362.44	1950.26	6364.52	1950.66	6366.79	1951	6371.09	1951.24
6379.83	1951.7	6388.41	1952.13	6392.13	1952.07	6396.77	1951.97	6404.23	1951.6
6416.92	1951	6419.53	1951.01	6437.65	1951.29	6448.12	1951.44	6455.01	1951.62
6455.58	1951.62	6459.73	1951.73	6461.56	1951.79	6466.76	1952	6468.29	1952.01

6473.46	1952.01	6479.6	1952	6480.63	1952.02	6483.45	1952	6485.55	1952.09
6494.53	1953	6512.7	1954	6532.69	1954				

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
1961.37	.045	1961.37	.04	6532.69	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
1961.37	6532.69	132.63	132.63	132.63	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1938.66	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.09	Wt. n-Val.		0.040	
W.S. Elev (ft)	1938.56	Reach Len. (ft)	132.63	132.63	132.63
Crit W.S. (ft)		Flow Area (sq ft)		9095.63	
E.G. Slope (ft/ft)	0.001514	Area (sq ft)		9095.63	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	4087.36	Top Width (ft)		4087.36	
Vel Total (ft/s)	2.46	Avg. Vel. (ft/s)		2.46	
Max Chl Dpth (ft)	5.56	Hydr. Depth (ft)		2.23	
Conv. Total (cfs)	575757.6	Conv. (cfs)		575757.6	
Length Wtd. (ft)	132.63	Wetted Per. (ft)		4089.08	
Min Ch El (ft)	1933.00	Shear (lb/sq ft)		0.21	
Alpha	1.00	Stream Power (lb/ft s)	6532.69	0.00	0.00
Frctn Loss (ft)	0.20	Cum Volume (acre-ft)		2489.44	
C & E Loss (ft)	0.00	Cum SA (acres)		1191.38	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -5696.76

INPUT
Description:
Station Elevation Data num= 442

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
2002.59	1939	2035.29	1939	2048.3	1938.35	2054.68	1938	2060.71	1937.2
2062.69	1937	2070.99	1935.52	2073.55	1935.13	2080.15	1935.04	2085.35	1935.08
2095.84	1935	2252.76	1935	2282.91	1936	2289.07	1936.13	2296.33	1936
2325.11	1936	2335.64	1936.08	2378.17	1936.34	2378.8	1936.34	2388.07	1936.68
2396.52	1937	2552.84	1937	2555.79	1936.98	2572.3	1936.69	2581.84	1936.59
2617.15	1936.25	2626.82	1936.16	2627.7	1936.16	2646.26	1936.39	2653.9	1936.4
2662.01	1936.4	2665.47	1936.46	2675.99	1936.71	2684.51	1936.96	2686.98	1936.96
2691.13	1937	2717.51	1937	2724.11	1936.96	2738.82	1936.95	2755.56	1936.95
2760.92	1937	2770.6	1937.14	2774.54	1937.22	2784.47	1937.36	2791.22	1937.4
2792.12	1937.43	2794.88	1937.46	2804.9	1937.7	2814.43	1938	2826.35	1938.48
2839.18	1938.88	2843.3	1939	2897.51	1939	2903.14	1938.92	2915.74	1938.66
2935.4	1938.28	2946.85	1938	2953.7	1938	2984.52	1937.37	2995.8	1937.23
2996.8	1937.16	2999.88	1937	3012.95	1936.99	3016.44	1936.98	3021.84	1936.98
3025.92	1936.99	3082.1	1936.99	3082.95	1937	3089.02	1936.99	3098.45	1937
3105.63	1937	3139.64	1937.93	3142.09	1938	3181.63	1938	3185.74	1937.88
3204.61	1937.24	3211.65	1937.01	3233.27	1937.01	3243.42	1937.37	3252.31	1937.21
3257.88	1937.04	3264.01	1937	3268.66	1936.28	3270.28	1936	3274.19	1935.39
3276.4	1935	3279.92	1935	3283.37	1935.32	3284.91	1935.39	3286.56	1935.4
3287.99	1935.45	3291.46	1935.48	3297.37	1936.08	3304.95	1937.36	3308.34	1938
3325.96	1938.91	3328.88	1939	3335.51	1939	3345.6	1940	3353.29	1940.86
3359.62	1941.61	3363.16	1941.74	3364.29	1941.72	3367.58	1941.4	3371.17	1941.03
3382.48	1941.02	3388.77	1941	3389.42	1940.82	3391.8	1940	3395.23	1939
3396.68	1938.61	3401.37	1937.24	3402.27	1937	3405.76	1936.46	3408.13	1936
3409.22	1935.93	3412.94	1935.77	3429.72	1935.02	3441.78	1935.01	3444.83	1935.23
3450.25	1935.3	3456.81	1935.31	3464.51	1935.34	3475.99	1935.46	3482.38	1935.52
3491.61	1935.59	3505.99	1935.56	3524.07	1935.49	3529.85	1935.32	3532.77	1935.33
3538.33	1935.4	3543.26	1935.23	3549.55	1935	3569.96	1934.98	3585.91	1934.43
3590	1934.47	3592.81	1934.54	3601.56	1935	3606.69	1935.19	3620.57	1936
3634.98	1936.68	3644.01	1937	3650.4	1937.05	3654.24	1937.07	3657.93	1937.05
3665.13	1937.08	3669.03	1937.06	3672.92	1937.13	3679.83	1937.28	3680.82	1937.32
3685.04	1937.37	3701.09	1937.64	3705.76	1937.64	3707.1	1937.62	3710.04	1937.63
3714.66	1937.62	3719.02	1937.57	3724.29	1937.53	3730.08	1937.55	3737.28	1937.46
3741.03	1937.46	3743.92	1937.49	3747.25	1937.57	3749.49	1937.54	3757.27	1937.72
3770.5	1938	3804.85	1938	3805.64	1937.96	3818.65	1937.17	3821.34	1937
3823.67	1936.96	3845.82	1936.53	3850.97	1936.36	3860.56	1936	3869.98	1935.53
3880.32	1935	3884.4	1935	3886.35	1935.58	3888.07	1936	3892.74	1936.81
3896.03	1937.31	3898.24	1937.55	3899.39	1937.59	3901.23	1937.53	3904.35	1937.29
3908.34	1936.9	3916.03	1936	3917.7	1935.58	3920.57	1936	3939.82	1936
3941.3	1936.1	3950.58	1936.26	3957.17	1936.36	3957.79	1936.35	3963.82	1936
3972.17	1935.69	3986.91	1935.06	3988.49	1935	3992.04	1934.97	4003.72	1934.7
4003.85	1934.69	4014.86	1934.44	4042.1	1934.35	4060.53	1934.46	4065.27	1934.48
4086.61	1934.41	4115.13	1934.31	4115.98	1934.29	4119.6	1934.31	4120.64	1934.29
4128.3	1934.03	4132.75	1934	4157.08	1933	4161.64	1933	4166.88	1933.13
4189.41	1933.84	4195.88	1934	4296.17	1934	4299.61	1934.03	4306.51	1934.01
4309.65	1934.02	4312.49	1934.07	4316.3	1934.22	4324.27	1934.48	4332.87	1934.81
4339.55	1935	4432.44	1935	4441.07	1934.98	4463.84	1934.73	4486.08	1934.52
4489.12	1934.52	4502.91	1934.35	4508.68	1934.29	4529.8	1934.38	4538.88	1934.57

4546.85	1934.71	4552.56	1934.84	4557.93	1934.89	4559.63	1934.93	4571.52	1935
4619.15	1935	4643.17	1934.58	4651.23	1934.41	4664.09	1934.17	4669.94	1934
4678.62	1933.76	4690.97	1933.32	4695.07	1933.19	4700.41	1933	4705.65	1932.99
4737.05	1932.99	4744.35	1933	4749.79	1933	4760.85	1933.02	4770.14	1933
4775.72	1932.88	4778.65	1932.88	4780.94	1933	4783.2	1933.45	4785.64	1934
4790.1	1934.91	4791.38	1935.11	4796.99	1935.46	4804.78	1935.99	4806.17	1936
4809.11	1936.18	4817.55	1937	4820.11	1937.04	4825	1937.05	4832.43	1937.01
4843.72	1936.99	4853.7	1937	4865.04	1937.31	4866.93	1937.35	4874.67	1937.6
4885.14	1938	4887.04	1938.27	4902.23	1938.06	4907.23	1938.07	4919.21	1938.03
4933.47	1938	4949.81	1937.22	4953.49	1937	4957.35	1936.96	4962.09	1936.74
4965.04	1936.69	4969.36	1936.72	4974.25	1936.84	4976.5	1937	4981.64	1937.05
4988.22	1937	5008.41	1937	5011.04	1937.01	5038.73	1937.6	5048.31	1937.79
5051.34	1937.84	5056.31	1938	5132.02	1938	5137.9	1937.99	5144.51	1937.99
5150.27	1938	5186.69	1938	5204.72	1937	5210.51	1936.55	5212.53	1936.36
5216.99	1936	5258.79	1936	5268.58	1936.71	5272.09	1936.84	5275.4	1936.99
5283.42	1936.99	5288.51	1936.98	5295.51	1937	5302.48	1937	5314.85	1937.07
5321.22	1937.04	5327.57	1937	5340.49	1936.35	5352.1	1936	5414.42	1936
5416.56	1936.05	5424.02	1936.13	5425.48	1936.16	5433.69	1936.27	5456.11	1936.61
5464.42	1936.73	5482.63	1936.89	5494.05	1937	5496.65	1937	5501.06	1937.52
5505.71	1938	5513.68	1938.74	5516.28	1939	5522.36	1939	5527.61	1938.41
5531.03	1938	5534.41	1937.55	5538.16	1937	5543.3	1937	5565.78	1936.74
5583.57	1936.53	5591.85	1936.48	5602.49	1936.3	5608.51	1936.18	5611.84	1936.15
5618.7	1936.01	5620.87	1936	5667.9	1935.5	5681.06	1935.37	5702.63	1935.15
5716.95	1935	5846.52	1935	5859.1	1935.35	5860.84	1935.37	5864.96	1935.5
5877.32	1936	5893.87	1936	5900.08	1936.05	5904.06	1936.07	5916.18	1936.15
5919.67	1936.18	5928.92	1936.29	5934.83	1936.35	5946.7	1936.42	5952.47	1936.43
5962.38	1936.43	5962.62	1936.42	5970.03	1936.43	5989.18	1936.38	6013.9	1936.28
6034.9	1936.17	6037.84	1936.15	6054.96	1936	6069.17	1936	6073.6	1936.06
6080.29	1936.03	6083.08	1936.05	6096.89	1936.1	6110.04	1936.1	6116.51	1936.05
6118.6	1936.05	6120.78	1936.1	6124.52	1936.14	6134.23	1936.35	6147.52	1936.58
6157.39	1936.64	6171.78	1936.84	6179.38	1937	6198.79	1937.92	6201.83	1938
6202.84	1938.05	6219.03	1938.73	6231.46	1939.9	6234.18	1940.17	6240.28	1941
6242.28	1941.19	6252.13	1942	6260.18	1942.73	6263.34	1943	6269.12	1943.76
6270.64	1944	6273.28	1944.05	6275.79	1944.2	6276.32	1944.21	6277.89	1944.46
6280.17	1944.86	6280.84	1944.93	6286.57	1946.68	6290.98	1948	6292.46	1948.46
6300.59	1950.92	6300.79	1951	6302.87	1951	6310.15	1950.01	6310.68	1949.95
6314.38	1949.42	6317.45	1949	6318.47	1948.99	6319.45	1948.9	6324.46	1949
6332.3	1949.12	6340.73	1949.27	6342.25	1949.28	6345.78	1949.43	6350.86	1950
6358.38	1950.75	6360.72	1951	6363.56	1951.24	6374.37	1952	6380.5	1952.95
6386.39	1954	6392.78	1954.02	6397.05	1954	6401.93	1954	6412.86	1955
6429.09	1955	6442.99	1954.46	6446.95	1954.35	6453.13	1954.16	6461.42	1954
6477.7	1954	6482.41	1953.99						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
2002.59	.045	2002.59	.04	6482.41	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
2002.59	6482.41	236.43	236.43	236.43	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1938.46	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.09	Wt. n-Val.		0.040	
W.S. Elev (ft)	1938.37	Reach Len. (ft)	236.43	236.43	236.43
Crit W.S. (ft)		Flow Area (sq ft)		9106.38	
E.G. Slope (ft/ft)	0.001443	Area (sq ft)		9106.38	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3955.03	Top Width (ft)		3955.03	
Vel Total (ft/s)	2.46	Avg. Vel. (ft/s)		2.46	
Max Chl Dpth (ft)	5.49	Hydr. Depth (ft)		2.30	
Conv. Total (cfs)	589604.4	Conv. (cfs)		589604.4	
Length Wtd. (ft)	236.43	Wetted Per. (ft)		3957.55	
Min Ch El (ft)	1932.88	Shear (lb/sq ft)		0.21	
Alpha	1.00	Stream Power (lb/ft s)	6482.41	0.00	0.00
Frctn Loss (ft)	0.40	Cum Volume (acre-ft)		2461.73	
C & E Loss (ft)	0.00	Cum SA (acres)		1179.13	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -5933.19

INPUT
Description:
Station Elevation Data num= 435

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
2058.53	1939	2062.04	1938.92	2074.07	1938.34	2075.29	1938.29	2081.25	1938
2081.79	1937.92	2089.8	1937	2095.86	1935.74	2099.99	1935	2101.99	1934.99
2105.64	1934.99	2109.27	1935	2116.42	1935.07	2121.96	1935	2274.5	1935
2313.96	1935.99	2314.32	1936	2335.57	1936	2338.49	1936.02	2374.11	1936.29
2406.77	1936.49	2407.45	1936.49	2420.98	1936.99	2421.58	1937	2539.27	1937
2550.66	1936.93	2558.67	1936.91	2571.45	1936.9	2580.48	1936.86	2586.99	1936.81
2594.56	1936.72	2595.84	1936.71	2599.39	1936.65	2621.15	1936.27	2629.64	1936.13

2629.88	1936.12	2637.54	1936	2639.51	1935.92	2644.29	1935.75	2646.81	1935.67
2648.81	1935.62	2651.71	1935.59	2653.7	1935.62	2659.08	1935.72	2660.88	1935.74
2662.4	1935.72	2671.51	1935.93	2673.83	1935.91	2681.28	1936	2688	1936.38
2691.33	1936.58	2698.51	1937	2707.34	1937	2709.57	1936.96	2712.67	1936.92
2726.48	1936.72	2752.13	1936.59	2772.73	1936.58	2782.03	1936.67	2795.38	1937
2811.13	1937	2837.33	1938	2841.11	1938.1	2853.58	1938.42	2860.11	1938.47
2868.41	1938.55	2885.38	1938.7	2893.6	1938.77	2895.3	1938.79	2900.82	1938.79
2904.44	1938.75	2906.82	1938.77	2912.72	1938.72	2921.47	1938.64	2937.4	1938.48
2942.85	1938.4	2951.19	1938.32	2968.86	1938	2984.95	1937.99	2994.41	1937.99
3000.39	1938	3004.06	1938	3009.37	1938.01	3011.11	1938	3016.39	1937.72
3030.66	1937	3035.69	1937	3065.36	1936.99	3095.35	1937	3142.18	1937
3145.97	1937.1	3163.01	1937.45	3172.15	1937.61	3177.04	1937.7	3182.14	1937.82
3184.64	1937.87	3188.55	1938	3190.39	1937.9	3193.22	1937.84	3202.5	1937.73
3205.01	1937.66	3215.15	1937.51	3222.33	1937.37	3228.71	1937.21	3233.88	1937.07
3236.05	1937	3243.68	1937	3251.67	1937.37	3251.74	1937.38	3256.97	1937.63
3262.47	1938	3264.3	1938	3265.19	1938.07	3266.01	1938.01	3267.34	1937.99
3268.67	1937.87	3285.15	1937	3289.65	1936.97	3307.53	1937.02	3310.96	1937.02
3311.74	1937.03	3322.32	1937.45	3329.83	1937.73	3337.21	1938	3340.11	1938.39
3340.41	1938.39	3349.79	1938.74	3354.2	1939	3357.32	1939.24	3362.78	1939.57
3370.25	1940	3372.47	1940.29	3374.99	1940.58	3376.13	1940.75	3378.12	1941
3380.03	1941.21	3380.94	1941.34	3383.69	1941.65	3384.64	1941.77	3388.64	1942.22
3391.13	1942.47	3393.43	1942.64	3394.83	1942.6	3396.61	1942.41	3399.71	1942
3406.13	1941	3407.25	1940.81	3409.49	1940.37	3411.59	1940	3415.82	1939.36
3418.06	1939	3419.57	1938.8	3423.14	1938.2	3427.18	1937.44	3429.43	1937
3432.26	1936.86	3441.08	1936	3451.57	1935.3	3452.16	1935.29	3455.93	1935
3464.08	1934.42	3469.09	1934.17	3471.01	1934.14	3472.27	1934.16	3477.34	1934.38
3483.49	1934.66	3485.51	1934.78	3490.32	1935	3507.14	1935.01	3524.07	1935.03
3532.81	1935.03	3554.16	1935.01	3583	1935.01	3585.87	1935	3595.87	1935
3597.65	1934.99	3601.19	1934.99	3603.32	1935	3611.38	1935.01	3630.75	1935.57
3646.98	1935.84	3656.78	1936	3662.36	1936.19	3666.35	1936.3	3673.85	1936.43
3693.85	1936.8	3702.16	1937	3708.8	1937	3717.57	1936.88	3717.77	1936.89
3735.78	1936.94	3737.2	1936.95	3744.79	1936.97	3750.64	1937	3794.95	1937
3797.63	1937.06	3803.32	1937.23	3805.35	1937.3	3809.25	1937.4	3811.05	1937.47
3827.1	1937.97	3830.46	1937.97	3836.33	1937.57	3838.8	1937.48	3839.5	1937.47
3842.17	1937.34	3850.67	1937.05	3854.62	1937.05	3856.5	1937.04	3862.64	1937.04
3866.75	1937.02	3868.75	1937	3871.21	1936.85	3884.48	1936	3894.43	1935.61
3894.55	1935.61	3907.06	1935.33	3911.06	1935.42	3917.68	1935.63	3926.92	1935.88
3928.32	1935.93	3930.04	1935.96	3931.12	1936	3934.68	1935.99	3936.68	1936.01
3938.83	1936.01	3946.32	1936.26	3956.76	1936.6	3966.01	1936.82	3973.23	1937
3990.04	1937	3992.7	1936.84	4004.03	1936	4007.93	1935.79	4008.69	1935.74
4022.89	1935.05	4023.78	1935	4033.9	1934.68	4041.97	1934.44	4056.27	1934
4076.1	1934	4093.32	1934.22	4093.54	1934.23	4107.08	1934.37	4110.49	1934.42
4131.19	1934.4	4154.2	1934.36	4157.37	1934.29	4163.43	1934.2	4171.56	1934.01
4177.86	1934.01	4185.74	1934	4195.9	1934	4201.47	1933.79	4224.53	1933.18
4227.76	1933.11	4231.31	1933.13	4235.8	1933.18	4240.16	1933.19	4245.5	1933.28
4250.84	1933.32	4257.42	1933.38	4259.66	1933.42	4272.12	1933.54	4282.26	1933.66
4291.16	1933.78	4303.3	1933.99	4303.57	1934	4332.45	1934	4351.06	1934.3
4351.35	1934.3	4375.54	1934.57	4383.97	1934.65	4390.25	1934.7	4399.71	1934.99
4409.37	1934.99	4410.62	1934.98	4424.77	1934.98	4429.81	1934.97	4434.97	1934.98
4439.97	1934.98	4464.29	1934.7	4489.95	1934.43	4491.34	1934.42	4509.58	1934.49
4535.06	1934.59	4541.36	1934.59	4549.48	1934.5	4563.48	1934.34	4570.75	1934.39
4580.38	1934.36	4591.31	1934.31	4592.49	1934.3	4606.3	1934	4646.7	1934
4655.96	1933.65	4676.04	1933	4681.39	1932.89	4684.44	1932.84	4696.87	1932.66
4705.11	1932.56	4714.82	1932.55	4725.01	1932.58	4728.93	1932.64	4733.66	1932.7
4745.22	1932.93	4748.22	1933	4753.85	1933.02	4759.3	1933	4761.75	1933
4765.02	1934	4772.37	1936.04	4773.61	1936.11	4788.06	1937	4802.13	1937
4804.95	1936.82	4824.28	1936.34	4834.28	1936.42	4834.81	1936.44	4859.83	1937
4860.92	1937	4873.87	1936.76	4878.61	1936.66	4890.35	1936.42	4910.08	1936
4918.59	1935.72	4919.98	1935.67	4928.63	1935.39	4932.21	1935.29	4936.1	1935.16
4940.77	1935.03	4942.7	1935	4956.79	1935	4960.54	1935.09	4962.47	1935.15
4965.87	1935.2	4971.27	1935.29	4974.22	1935.36	4981.61	1935.45	4993.92	1935.61
5004.97	1935.83	5021.9	1935.98	5029.33	1936.03	5036.26	1936.05	5036.32	1936.06
5048.02	1936.05	5050.89	1936.01	5053.23	1936	5058	1935.85	5062.41	1935.75
5065.67	1935.66	5073.11	1935.41	5073.97	1935.42	5077.65	1935.31	5079.48	1935.32
5082.14	1935.4	5085.56	1935.31	5101.44	1935.5	5123.4	1935.39	5157.41	1935.23
5161.52	1935.2	5174.22	1935	5183.12	1935	5189.47	1935.2	5191.87	1935.22
5229.04	1935.99	5234.16	1935.99	5258.28	1936	5270.78	1936	5325.99	1937
5466.26	1937	5474.93	1937.01	5487.05	1937	5497.13	1937	5518.29	1936.66
5550.26	1936	5571.45	1935.67	5624.16	1935	5808.38	1935	5853.49	1935.67
5873.85	1935.81	5892.52	1935.95	5899.77	1936	5904.67	1936.1	5915.07	1936.39
5935.42	1937	6004.16	1937	6013.1	1937.03	6023.45	1937.08	6027.36	1937.07
6037.05	1937.07	6046.65	1937.09	6050.51	1937.09	6074.11	1937.93	6075.35	1938
6104.01	1938	6104.91	1938.31	6105.54	1939	6109.18	1940.98	6111.1	1942
6111.88	1942.45	6112.7	1943	6114.26	1943.8	6114.83	1944.16	6116.42	1945
6116.82	1945.26	6118.19	1946	6118.75	1946.35	6123.55	1949	6127.47	1951.09
6129.1	1952	6131.8	1952.55	6133.22	1953	6180.94	1953	6191.05	1953.94
6191.79	1954	6202.2	1954	6208.59	1953.76	6213.19	1953.6	6228.99	1953.93
6233.4	1954	6266.07	1954	6269.05	1954.03	6272.46	1954.08	6284.01	1954.19
6292.01	1954.13	6304.26	1954.11	6306.29	1954.1	6314.45	1954.01	6315.98	1954
6325.73	1953.89	6368.73	1953.39	6377.78	1953.29	6389.52	1953.17	6397.87	1953.1

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
2058.53	.045	2058.53	.04	6397.87	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
2058.53	6397.87	183.09	183.09	183.09	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1938.06	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.12	Wt. n-Val.		0.040	
W.S. Elev (ft)	1937.94	Reach Len. (ft)	183.09	183.09	183.09
Crit W.S. (ft)		Flow Area (sq ft)		8008.33	
E.G. Slope (ft/ft)	0.002035	Area (sq ft)		8008.33	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3712.43	Top Width (ft)		3712.43	
Vel Total (ft/s)	2.80	Avg. Vel. (ft/s)		2.80	
Max Chl Dpth (ft)	5.39	Hydr. Depth (ft)		2.16	
Conv. Total (cfs)	496530.3	Conv. (cfs)		496530.3	
Length Wtd. (ft)	183.09	Wetted Per. (ft)		3713.98	
Min Ch El (ft)	1932.55	Shear (lb/sq ft)		0.27	
Alpha	1.00	Stream Power (lb/ft s)	6397.87	0.00	0.00
Frctn Loss (ft)	0.39	Cum Volume (acre-ft)		2415.29	
C & E Loss (ft)	0.00	Cum SA (acres)		1158.33	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -6116.28

INPUT
Description:
Station Elevation Data num= 438

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
2058.64	1939	2064.3	1938.8	2079.68	1938.2	2084.19	1938.05	2085.22	1938
2095.26	1937.38	2098.47	1937.2	2101.85	1937	2102.82	1936.8	2106.56	1936
2109.53	1935.38	2111.8	1935	2118.05	1934.98	2122.98	1934.99	2124.44	1935
2127.29	1935.06	2130.94	1935	2169.83	1935	2184.83	1935.01	2200.75	1935
2202.66	1935	2210.7	1934.99	2217.48	1934.99	2227.82	1935	2235.88	1934.99
2250.42	1934.99	2278.96	1935	2290.73	1935	2303.28	1935.31	2305.11	1935.36
2329.49	1936	2331.65	1936	2393.41	1936.47	2417.79	1936.62	2418.51	1936.62
2428.63	1937	2531.99	1937	2557.73	1936.67	2558.76	1936.67	2561.81	1936.63
2565.83	1936.57	2566.64	1936.57	2571.56	1936.53	2575.08	1936.51	2579.51	1936.5
2586.65	1936.5	2592.9	1936.46	2607.53	1936.37	2632.97	1936.07	2636.75	1936
2650.61	1935.24	2654.19	1935.04	2655.06	1935	2656.42	1935.01	2669.2	1935.37
2677.1	1935.55	2680.58	1935.64	2685.5	1935.79	2691.55	1936	2696.91	1936.28
2697.89	1936.35	2714.85	1936.71	2720.02	1936.8	2723.71	1936.76	2729.61	1936.68
2732.52	1936.65	2734.1	1936.62	2743.05	1936.48	2743.33	1936.47	2751.64	1936.36
2764.33	1936.29	2774.43	1936.29	2778.46	1936.32	2779.02	1936.33	2789.65	1936.59
2806.14	1937	2820.39	1937	2830.94	1937.4	2832.42	1937.45	2847.77	1938
2857.96	1938	2879.24	1938.19	2901.62	1938.38	2907.6	1938.38	2913.77	1938.39
2915.21	1938.38	2921.24	1938.41	2924.37	1938.38	2943.49	1938.21	2964.28	1938.01
2964.78	1938	2985.64	1938	2991.32	1937.99	3001.49	1937.99	3014.86	1938
3023.59	1938.03	3032.36	1938	3045.12	1937	3060.66	1937	3066.87	1936.99
3068.24	1937	3171.49	1937	3174.29	1937.1	3200.77	1938	3204.59	1937.79
3214.09	1937.26	3223.95	1937	3259.94	1937	3263.02	1937.39	3268.4	1938
3272.76	1938.46	3273.76	1938.61	3275.26	1938.79	3277.13	1939	3283.26	1939
3283.48	1938.98	3291.74	1938	3297.68	1937.27	3299.92	1937	3303.96	1936.99
3307.98	1936.99	3314.98	1937	3320.45	1937.51	3323.88	1938	3326.31	1938.72
3327.15	1939	3329.53	1939.63	3331.7	1940.09	3332.48	1940.22	3335.75	1940.74
3339.24	1941.19	3339.66	1941.2	3340.68	1941.29	3340.85	1941.28	3341.7	1941.34
3342.5	1941.36	3343.81	1941.31	3345.59	1941.18	3347.25	1940.97	3353.61	1940
3356.91	1939.47	3362.33	1939.36	3363.07	1939.3	3367.63	1939.25	3368.79	1939.19
3369.97	1939.19	3372.03	1939.12	3372.76	1939.12	3377.56	1939.01	3379.78	1939.01
3381.73	1939.08	3390.18	1939.33	3391.94	1939.32	3394.36	1939.34	3399.73	1939.54
3405.73	1939.62	3407.21	1939.67	3408.41	1939.64	3410.25	1939.5	3411.51	1939.42
3414.25	1939	3417.79	1938.51	3421.8	1938	3428.22	1937.48	3437.11	1937
3442.5	1936.83	3447.39	1936.87	3453.1	1937	3456.89	1937.38	3457.75	1937.46
3458.82	1937.52	3459.98	1937.51	3461.37	1937.47	3462.29	1937.37	3462.69	1937.35
3465.23	1937	3474.42	1935.32	3476.62	1935	3480.88	1934.82	3489.71	1934.98
3492.57	1934.97	3502.98	1935	3508.12	1935	3514.7	1935.01	3530.75	1935.01
3537.71	1935	3542.29	1935.01	3552.82	1935.01	3564.93	1935.02	3581	1935.01
3587.83	1935	3615.46	1935	3660.3	1935.7	3668.96	1935.83	3680.38	1935.96
3681.74	1935.95	3683.86	1936	3688.91	1936.05	3694.65	1936.13	3706.92	1936.19
3712.05	1936.16	3714.91	1936.16	3715.96	1936.18	3717.9	1936.15	3719.32	1936.19
3723.26	1936.21	3728.21	1936.24	3730.93	1936.29	3740.8	1936.48	3748.13	1936.61
3752.63	1936.68	3753.72	1936.69	3780.58	1936.91	3791.31	1937	3807.46	1937
3824.55	1937.55	3829.87	1937.73	3838.33	1938	3847.57	1938	3858.3	1937.26
3862.23	1937	3863.52	1937	3865.6	1936.9	3867.52	1936.82	3870.51	1936.72
3888.28	1936	3916.33	1935	3928.22	1935	3938.81	1935.45	3941.13	1935.56
3942.33	1935.6	3952.2	1936	3952.79	1936	3954.37	1936.05	3958.76	1936.17
3977.23	1936.7	3982.13	1936.79	3995.41	1937	3999.95	1937	4005.68	1936.49
4007.12	1936.4	4007.71	1936.39	4014.33	1936.01	4015.36	1936.02	4017.6	1936.02
4021.51	1936.04	4026.03	1936	4027.65	1935.92	4038.24	1935.38	4045.03	1935
4047.25	1935	4049.15	1934.96	4059.39	1934.79	4071.15	1934.69	4073.84	1934.67
4075.32	1934.65	4098.31	1934	4113.93	1934.24	4139.72	1934.63	4141	1934.64
4150.1	1934.58	4163.03	1934.48	4163.06	1934.49	4169.65	1934.3	4180.1	1934.02
4181.09	1934	4187.16	1934	4189.96	1933.99	4212.62	1933.99	4218.15	1934
4223.95	1934	4225.79	1933.94	4227.43	1933.86	4234.73	1933.33	4236.88	1933.19
4239.32	1933	4245.34	1933	4265.31	1932.99	4303.01	1932.99	4307.37	1933
4326.95	1933	4329.9	1933.08	4333.02	1933.23	4348.17	1933.99	4348.51	1934

4371.97	1934	4379.97	1934.44	4385.13	1934.52	4387.85	1934.61	4389.66	1934.66
4393.58	1934.81	4396.59	1934.88	4398.48	1934.94	4401.34	1934.98	4410.36	1934.97
4424.73	1934.94	4425.65	1934.93	4427.02	1934.88	4428.55	1934.84	4437.53	1934.49
4443.85	1934.22	4450.22	1934.05	4451.4	1934	4531.99	1934	4542.14	1933.99
4564.62	1933.99	4566.36	1934	4619.7	1934	4625.14	1933.75	4633.99	1933.49
4636.67	1933.4	4637.3	1933.37	4648.98	1933.07	4651.06	1933	4681.49	1933
4684.89	1932.88	4688.99	1932.7	4704.28	1932	4726.46	1931.98	4729.87	1931.98
4737.33	1931.97	4741.23	1931.98	4745.98	1931.98	4762.33	1931.99	4766.26	1932
4771.33	1932	4773.17	1932.29	4781.28	1933	4787.34	1933.61	4791.32	1934
4797.72	1934.62	4801.97	1935	5139.52	1935	5185.7	1935.71	5195.6	1935.86
5197.64	1935.88	5216.56	1935.97	5222.18	1936	5232.85	1936	5251.7	1936.01
5292.04	1936.01	5316.12	1936	5343.4	1936	5357.97	1935.99	5390.4	1936
5401.64	1936	5402.64	1936.01	5407.21	1936.01	5410.41	1936	5416.99	1935.99
5420.7	1935.99	5426.07	1936	5428.82	1936.02	5436.09	1936.03	5438.66	1936.03
5443.63	1935.99	5444.07	1935.98	5462.72	1935.73	5465.16	1935.69	5465.62	1935.69
5474.2	1935.51	5475.15	1935.51	5479.83	1935.41	5482.92	1935.37	5494.29	1935.43
5495.17	1935.41	5501.57	1935.35	5506.31	1935.31	5507	1935.31	5511.98	1935.22
5522.86	1935	5602.01	1935	5624.39	1934.99	5653.89	1935	5675.89	1935
5681.21	1934.99	5703.71	1934.99	5706.22	1935	5710.01	1935	5712.45	1934.98
5714.05	1935	5714.37	1935.02	5733.99	1935.09	5735.42	1935.09	5751.47	1935.04
5762.39	1935.02	5764.24	1935.02	5765.51	1935	5795.17	1935	5801.33	1935.01
5843.02	1935.01	5852.64	1935	5886.31	1935	5897.49	1934.99	5912.19	1934.99
5927.19	1935	5933.91	1935	5937.26	1935.01	5940.89	1935.01	5949.3	1935.39
5951.44	1935.47	5952.43	1935.52	5957.1	1935.71	5962.34	1936	5964.63	1937
5968.57	1938.73	5970.76	1940	5971.58	1940.49	5974.17	1942	5977.5	1944
5978.25	1944.48	5981.22	1946.14	5982.47	1946.78	5983.75	1947.39	5985.23	1948
5988.64	1949.42	5990.64	1950.28	5992.26	1951	5994.62	1951.14	6003.89	1951.82
6005.53	1951.92	6006.17	1952	6009.14	1952.04	6023.21	1952.27	6023.41	1952.27
6044.36	1952.6	6052.25	1952.73	6068.87	1952.98	6074.54	1952.97	6075.58	1953
6170.53	1953	6172.54	1953.43	6176.04	1954	6225.99	1954	6255.33	1953.25
6260.9	1953.11	6265.43	1953	6324.89	1953				

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
2058.64	.045	2058.64	.04	6324.89	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
2058.64	6324.89	101.5	101.5	101.5	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1937.67	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.13	Wt. n-Val.		0.040	
W.S. Elev (ft)	1937.54	Reach Len. (ft)	101.50	101.50	101.50
Crit W.S. (ft)		Flow Area (sq ft)		7641.11	
E.G. Slope (ft/ft)	0.002183	Area (sq ft)		7641.11	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3479.60	Top Width (ft)		3479.60	
Vel Total (ft/s)	2.93	Avg. Vel. (ft/s)		2.93	
Max Chl Dpth (ft)	5.57	Hydr. Depth (ft)		2.20	
Conv. Total (cfs)	479416.7	Conv. (cfs)		479416.7	
Length Wtd. (ft)	101.50	Wetted Per. (ft)		3481.16	
Min Ch El (ft)	1931.97	Shear (lb/sq ft)		0.30	
Alpha	1.00	Stream Power (lb/ft s)	6324.89	0.00	0.00
Frctn Loss (ft)	0.21	Cum Volume (acre-ft)		2382.40	
C & E Loss (ft)	0.00	Cum SA (acres)		1143.21	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -6217.78

INPUT
Description:
Station Elevation Data num= 447

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
2078.96	1939	2080.87	1938.93	2086.12	1938.69	2094.62	1938.28	2098.65	1938.12
2100.73	1938	2111.56	1937.22	2114.16	1937	2117.13	1936.46	2119.51	1936
2122.41	1935.51	2125.57	1935	2132.22	1934.97	2133.68	1934.98	2138.95	1935
2140.45	1935.05	2141.1	1935	2166.14	1935	2167.08	1935.01	2181.18	1935.01
2191.54	1935.02	2200.2	1935.02	2215.41	1935.01	2217.49	1935.01	2221.35	1935
2236.19	1935	2238.83	1934.99	2248.18	1934.99	2265.37	1935	2283.15	1935
2283.7	1935.01	2289.47	1935.03	2292.69	1935.03	2294.24	1935.02	2333.4	1935.87
2337.29	1935.95	2341.52	1936	2343.45	1936.01	2346.29	1936.01	2355.62	1936.16
2367.18	1936.31	2411.66	1936.65	2428.02	1936.75	2428.77	1936.75	2435.57	1937
2528.95	1937	2580.62	1936.35	2587.4	1936.26	2596.12	1936.13	2597.86	1936.12
2601.06	1936.12	2602.37	1936.11	2613.47	1936.04	2621.45	1936.06	2625.34	1936.05
2626.33	1936.04	2638.22	1936	2644.24	1936	2648.97	1935.99	2658.57	1935.8
2670.64	1935.6	2674.13	1935.68	2684.43	1936	2686.68	1936	2690.54	1936.01
2693.5	1936.01	2712.48	1936.03	2714.69	1936.03	2716.95	1936.04	2718.91	1936.04
2725.96	1936.19	2740.45	1936.44	2750.23	1936.32	2766.63	1936.11	2774.28	1936.02
2776.05	1936.01	2782.05	1936.16	2782.96	1936.19	2786.45	1936.28	2813.1	1937
2815.35	1937	2816.37	1937.01	2826.37	1937.01	2856.09	1937.89	2856.27	1937.89
2859.33	1938	2905.58	1938	2909.04	1938.03	2910.17	1938.02	2916.21	1938.02

2925.07	1938.04	2934.36	1938.08	2935.01	1938.08	2943.33	1938.01	2943.9	1938
3017.35	1938	3023.34	1938.02	3027.74	1938.04	3031.15	1938.05	3042.76	1938
3048.9	1937.55	3059.88	1937	3068.8	1937	3072.73	1937.03	3075.58	1937.08
3084.17	1937.18	3087.73	1937.18	3094.29	1937.26	3101.06	1937.32	3113.05	1937.27
3127.22	1937.2	3127.72	1937.19	3151.29	1937.01	3151.5	1937	3171.22	1937
3180.55	1937.36	3182.08	1937.41	3187.42	1937.56	3197.95	1937.75	3198.6	1937.77
3205.42	1937.86	3205.53	1937.87	3209.22	1937.91	3211.83	1938	3214.7	1937.84
3215.63	1937.85	3216.78	1937.76	3218.28	1937.68	3219.16	1937.61	3221.42	1937.47
3225.79	1937.18	3228.72	1937	3272.82	1937	3275.08	1937.31	3280.46	1938
3284.18	1938.47	3288.14	1939	3299.09	1939	3299.56	1938.99	3301.04	1938.89
3304.31	1938.77	3305.78	1938.68	3315.05	1938.22	3317.53	1938	3318.7	1938
3319.93	1938.24	3320.53	1938.33	3321.7	1938.66	3322.35	1938.82	3322.92	1939
3324.57	1939.4	3326.94	1940	3330.1	1940.78	3334.95	1941.96	3335.39	1942.05
3339.69	1943	3342.1	1943.56	3344.12	1944	3345.46	1944	3351.81	1943
3358.57	1942	3360.72	1941.69	3367.35	1940.67	3367.55	1940.65	3375.33	1940
3379.93	1939.86	3383.81	1939.76	3384.34	1939.73	3392.16	1939.5	3400.99	1939
3402.53	1938.95	3411.41	1938.32	3412.33	1938.24	3415.96	1938	3423.34	1938
3425.92	1937.99	3427.66	1937.99	3440.59	1937.6	3449	1937.37	3455.74	1938
3471.21	1938	3473.08	1937.77	3479.76	1937.21	3481.24	1937.07	3483.06	1936.88
3483.84	1936.78	3489.37	1936	3490.96	1935.66	3494.73	1935	3508.52	1934.98
3522.93	1935	3539.9	1935	3544.5	1934.99	3552.28	1935	3561.34	1935
3562.3	1935.01	3595.75	1935.01	3601.61	1934.99	3608.99	1935.01	3623.77	1935.01
3636.3	1935	3636.46	1935.01	3651.93	1935.25	3673.56	1935.58	3681.49	1935.67
3685.56	1935.65	3689.04	1935.62	3693.42	1935.56	3699.73	1935.71	3701.25	1935.71
3712.54	1935.99	3714.8	1935.99	3728.53	1936	3742.5	1936.25	3751.24	1936.38
3753.34	1936.4	3769.01	1936.53	3799.39	1936.78	3799.77	1936.79	3817.76	1937
3820.72	1937.1	3844.87	1938	3867.05	1938	3873.58	1937.26	3875.95	1937
3879.43	1936.82	3890.21	1936.27	3895.75	1936	3913.52	1935.45	3917.04	1935.37
3921.93	1935.25	3927.58	1935.13	3930.04	1935.06	3933.53	1935.01	3935.12	1935.02
3941.35	1935.24	3959.38	1936	3972.25	1936.3	3974.45	1936.33	3977.59	1936.4
3998.81	1936.99	3999.72	1936.99	4011.11	1936.87	4020.53	1936.7	4024.85	1936.61
4031.4	1936.46	4032.09	1936.45	4038.51	1936.15	4041	1936.12	4045.53	1936.05
4047.58	1936.04	4049.33	1936.01	4051.84	1935.86	4057.4	1935.58	4066.87	1935.06
4077.43	1935	4080.92	1934.99	4096.46	1934.72	4099.61	1934.68	4099.67	1934.67
4103.29	1934.62	4106.41	1934.57	4127.73	1934	4128.31	1934	4140.59	1934.17
4142.13	1934.18	4161.43	1934.01	4161.9	1934	4200	1934	4201	1933.99
4210.9	1933.99	4215.6	1933.73	4221.02	1933.66	4230.26	1933.56	4248.24	1933.34
4249.56	1933.32	4273.25	1933	4279.3	1933	4285.71	1932.99	4288.24	1932.99
4293.47	1932.98	4297.3	1932.98	4304.11	1932.97	4310.98	1932.97	4319.71	1932.95
4322.47	1932.96	4326.12	1932.96	4335.96	1932.97	4339.75	1932.97	4344.27	1932.98
4358.72	1933	4360.48	1933.06	4362.5	1933.05	4372.75	1933.16	4380.97	1933.24
4397.51	1933	4455.86	1933	4510	1933.99	4510.37	1934	4554.13	1934
4558.03	1933.93	4560.09	1933.88	4605.84	1933	4606.21	1933	4647.07	1932.61
4659.43	1932.53	4663.43	1932.51	4665	1932.49	4689.87	1932.32	4733.47	1932
4794.91	1932	4800.6	1933	4806.14	1934	4810.2	1934.81	4811.07	1935
5060.24	1935	5100.37	1934.19	5106.57	1934.07	5110.56	1934	5110.91	1934
5112.48	1934.05	5113.06	1934.05	5115.67	1934.12	5118.66	1934.18	5121.2	1934.25
5123.02	1934.29	5125.94	1934.37	5148.42	1935	5185.85	1935	5242.61	1935.09
5303.4	1935.18	5311.53	1935.18	5346.47	1935.09	5371.55	1935.01	5373.33	1935
5420.52	1935	5438.58	1935.65	5442.54	1935.78	5444.9	1935.68	5454.53	1935.12
5456.02	1935	5460.73	1934.99	5468.4	1934.68	5479.72	1934.23	5482.22	1934.15
5485.36	1934.07	5487.59	1934	5621.28	1934	5630.74	1934.44	5632.62	1934.54
5635.26	1934.66	5639.55	1934.87	5642.15	1934.99	5647.1	1934.99	5647.88	1935
5649.45	1934.98	5693.08	1934	5795.39	1934	5796.61	1933.97	5809.9	1933.61
5810.14	1933.61	5817.58	1933.49	5831.9	1933.25	5837.67	1933.15	5845.32	1933
5847.03	1933	5852.71	1935	5855.52	1936	5858.22	1937	5859.45	1937.4
5861	1938	5864.23	1939.1	5866.91	1940	5869.9	1941.02	5872.94	1942
5875.87	1943	5878.96	1944	5879.04	1944.02	5881.97	1945	5885.05	1946
5886.57	1946.48	5888.14	1947	5891.25	1948	5894.28	1949	5896.1	1949.56
5902.06	1951.5	5906.72	1953	5908.59	1953.79	5909.03	1953.9	5909.61	1954
5910.47	1954.03	5912.29	1954.02	5913.35	1954.08	5917.95	1954	5920.69	1953.98
5922.84	1953.99	5923.65	1954.03	5929.9	1954.96	5931.44	1954.96	5936.31	1954.98
5939.85	1954.98	5940.88	1954.95	5965.03	1954.15	5967.61	1954.07	5968.84	1954
5970.5	1954	5972.63	1953.91	5981.15	1953.67	5982.32	1953.63	6000.25	1953
6013.48	1952.65	6013.86	1952.65	6017.84	1952.6	6024.42	1952.57	6026.53	1952.57
6029.97	1952.54	6031.05	1952.55	6038.01	1952.51	6045.02	1952.57	6045.64	1952.56
6047.56	1952.56	6058.64	1952.57	6070.59	1952.6	6073.61	1952.63	6074.02	1952.64
6080.76	1952.64	6088.34	1952.63	6089.95	1952.62	6100.96	1952.69	6114.66	1952.77
6116.96	1952.83	6118.96	1952.87	6119.42	1952.87	6125.29	1953	6129.7	1953.11
6137.04	1953.26	6146.69	1953.59	6153.77	1953.78	6158.79	1954	6185.57	1955
6201.77	1955	6205.46	1954.71	6214.05	1954	6230.02	1953.09	6231.64	1953
6244.29	1953	6248.06	1952.97						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
2078.96	.045	2078.96	.04	6248.06	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
2078.96	6248.06	93.9	93.9	93.9	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1937.46	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.13	Wt. n-Val.		0.040	
W.S. Elev (ft)	1937.32	Reach Len. (ft)	93.90	93.90	93.90
Crit W.S. (ft)		Flow Area (sq ft)		7610.86	
E.G. Slope (ft/ft)	0.002011	Area (sq ft)		7610.86	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	

Top Width (ft)	3239.10	Top Width (ft)		3239.10	
Vel Total (ft/s)	2.94	Avg. Vel. (ft/s)		2.94	
Max Chl Dpth (ft)	5.32	Hydr. Depth (ft)		2.35	
Conv. Total (cfs)	499510.9	Conv. (cfs)		499510.9	
Length Wtd. (ft)	93.90	Wetted Per. (ft)		3240.93	
Min Ch El (ft)	1932.00	Shear (lb/sq ft)		0.29	
Alpha	1.00	Stream Power (lb/ft s)	6248.06	0.00	0.00
Frctn Loss (ft)	0.21	Cum Volume (acre-ft)		2364.63	
C & E Loss (ft)	0.00	Cum SA (acres)		1135.38	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -6311.68

INPUT
Description:
Station Elevation Data num= 416

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
2116.27	1939	2127.95	1938.31	2130.07	1938.21	2135.27	1938	2139.32	1937.72
2148.83	1937	2153.53	1936.37	2154.19	1936.25	2157.37	1935.57	2160.2	1935
2162.69	1934.98	2168.01	1934.95	2174.4	1934.99	2177.38	1934.99	2178.29	1935
2180.78	1935	2190.16	1935.01	2198.15	1935.01	2202.64	1935.02	2204.3	1935.01
2212.26	1935	2223.91	1935	2231.38	1934.8	2239.18	1934.6	2239.58	1934.6
2246.99	1934.47	2247.54	1934.47	2253.11	1934.41	2266.65	1934.48	2285.82	1934.59
2304.57	1935	2312.05	1935	2337.98	1935.32	2339.3	1935.34	2346.08	1935.4
2359.19	1935.54	2362.35	1935.58	2370.95	1935.7	2371.36	1935.71	2394.58	1935.86
2414.06	1936	2416.63	1936	2437.7	1936.54	2439.13	1936.59	2448.24	1936.81
2450.75	1936.88	2453.75	1936.99	2454.95	1937	2524.25	1937	2530.3	1936.92
2533.54	1936.9	2537.63	1936.86	2600.51	1936.01	2611.12	1936.02	2625.38	1936.02
2642.06	1936.01	2643.11	1936	2645.94	1936	2661.86	1935.97	2674.17	1935.95
2679.19	1935.95	2688.92	1935.96	2689.71	1935.97	2699.82	1935.97	2708.34	1935.99
2714.03	1935.96	2716.59	1935.99	2719.03	1936	2734.62	1936	2744.75	1936.01
2746.06	1936	2747.52	1936.01	2749.39	1936	2751.52	1936.01	2762.31	1936.01
2766.16	1936	2770.96	1936	2774.28	1935.85	2778.08	1935.69	2780.65	1935.57
2783.27	1935.47	2791.92	1935.11	2794.44	1935.05	2796.77	1935.07	2801.9	1935.14
2811.53	1935.31	2816.36	1935.39	2819.93	1935.46	2830.61	1935.65	2831.16	1935.67
2833.89	1935.71	2835.24	1935.75	2856.5	1936	2856.67	1936	2863.36	1936.17
2869.59	1936.28	2870.21	1936.27	2871.62	1936.31	2872.02	1936.3	2875.13	1936.34
2882.08	1936.56	2883.31	1936.61	2887.49	1936.75	2889.64	1936.83	2893.51	1936.93
2895.88	1936.98	2897.21	1936.99	2910.84	1936.89	2915.55	1936.89	2919.52	1936.91
2922.2	1936.9	2923.65	1936.86	2932.27	1936.99	2943.42	1936.99	2950.01	1937
2952.76	1937	2963.2	1937.51	2970.33	1937.83	2973.86	1938	3009.67	1938.74
3015.33	1938.86	3023.28	1939	3050.68	1939	3052.77	1938.88	3053.95	1938.84
3056.73	1938.7	3067.75	1938.21	3069.9	1938.14	3072.28	1938.1	3075.12	1938.09
3078.44	1938	3109.65	1938	3114.8	1937.86	3121.33	1938	3134.22	1938
3153.71	1937.99	3168.64	1937.99	3185.32	1938	3206.47	1938	3218.99	1938.72
3223.44	1939	3233.67	1939	3238.19	1938.82	3245.32	1938.63	3256.12	1938.33
3256.15	1938.32	3269.94	1938	3274.22	1937.79	3274.56	1937.79	3280.14	1937.51
3283.7	1937.57	3306.12	1937.31	3322.73	1937.01	3323.18	1937.01	3335.41	1937.56
3335.78	1937.54	3339.84	1938	3347.02	1939	3352.84	1939.79	3354.33	1940
3360.25	1940.78	3361.86	1941	3367.27	1941.7	3376.98	1942.94	3377.55	1943.03
3383.4	1944	3384.93	1944.02	3386.62	1944	3392.56	1943	3396.51	1942.41
3403.99	1941.31	3406.02	1941	3412.73	1939.93	3418.29	1939	3419.64	1938.78
3424.21	1938	3426.69	1937.59	3430.08	1937	3435.69	1936.01	3437.82	1935.98
3443.31	1935.73	3453.17	1935.46	3455.01	1935.42	3458.21	1935.31	3461.43	1935.23
3465.92	1935.54	3466.58	1935.54	3467.88	1935.62	3469.02	1935.72	3472.49	1936
3479.54	1936.21	3482.44	1936.46	3488.3	1936.99	3488.83	1936.98	3495.02	1936.71
3498.48	1936.69	3500.39	1936.67	3505.59	1936.57	3515.76	1936.57	3523.22	1936.33
3523.7	1936.32	3528.72	1936.02	3529.43	1935.99	3534.26	1935.85	3564.75	1935
3583.96	1935	3608.31	1934.93	3623.34	1934.96	3631.42	1934.98	3637.22	1934.97
3639.69	1935	3707.31	1935	3718.66	1935.3	3719.83	1935.31	3721.62	1935.3
3726.11	1935.41	3733.62	1935.51	3746.93	1935.73	3750.75	1935.81	3753.75	1935.88
3754.14	1935.88	3760.08	1936	3851.4	1936	3860.74	1936.36	3862.71	1936.42
3866.36	1936.51	3869.14	1936.56	3869.42	1936.55	3879.68	1936.49	3893.75	1936.39
3911.95	1936	3929.01	1935.98	3934.78	1935.98	3943.84	1935.99	3956.73	1936
3966.85	1936.8	3969.48	1937	3970.46	1937.01	3978.66	1937.47	3982.46	1937.58
3986.58	1937.37	3993.1	1937.01	3996.08	1937	4020.49	1937	4022.93	1936.99
4025.92	1937	4051.43	1937	4054.98	1936.91	4057.35	1936.92	4058.61	1936.91
4060.38	1936.83	4061.92	1936.79	4070.68	1936.43	4072.3	1936.37	4081.44	1936
4084.99	1936	4095.8	1935.68	4098.17	1935.6	4118.47	1935	4149.15	1934.2
4153.75	1934.11	4157.14	1934.03	4159.18	1934	4226.08	1934	4238.19	1933.73
4239.82	1933.7	4258.78	1933.27	4268.31	1933.07	4271.27	1933	4351.11	1933
4362.55	1932.73	4365.01	1932.68	4367.9	1932.66	4391.26	1932.37	4401.81	1932.3
4406.76	1932.3	4417.63	1932.42	4420.32	1932.43	4431.38	1932.63	4440.15	1932.72
4460.52	1932.99	4460.77	1933	4632.43	1933	4640.59	1932.93	4644.3	1932.92
4680.9	1932.98	4689.31	1933	4757.11	1933	4759.95	1932.88	4772.07	1932.39
4780.86	1932	4812.75	1932	4817.35	1932.39	4819.34	1932.55	4826.04	1933
4829.31	1932.25	4829.85	1932.34	4830.11	1933	4830.51	1933.34	4831.49	1933.64
4833.19	1934	4841.12	1934.59	4845.99	1935	5088.29	1935	5096.95	1934.99
5111.61	1934.98	5113.73	1934.99	5122.14	1934.99	5127.03	1935	5191.88	1935
5200.84	1934.56	5201.54	1934.55	5203.73	1934.41	5210.95	1934.42	5221.83	1934.31
5228.22	1934.25	5228.55	1934.26	5235.42	1934.27	5237.94	1934.29	5244.46	1934.4
5259.47	1934.77	5262.5	1934.83	5266.55	1934.96	5269.32	1935	5423.17	1935

5425.13	1934.97	5452.86	1934.62	5467.15	1934.43	5481.45	1934.29	5481.84	1934.29
5504.24	1934.07	5510.78	1934	5796.17	1934	5808.53	1933.99	5814.59	1933.99
5818.42	1934	5833.49	1934	5834.14	1934.27	5835.69	1935	5836.55	1935.35
5837.92	1936	5838.92	1936.41	5840.24	1937	5841.47	1937.58	5842.68	1938
5845.63	1939	5849.13	1940.17	5851.5	1941	5854.27	1941.92	5857.43	1943
5860.15	1943.94	5863.27	1945	5866.21	1946.02	5869.64	1947.12	5876.03	1949.15
5878.62	1950	5882.16	1951.14	5883.11	1951.42	5890.72	1954	5892.8	1954.61
5893.76	1954.63	5898.48	1954.97	5900.94	1954.97	5908.15	1955	5926.42	1955
5935.32	1954.97	5939.44	1954.97	5946.98	1954.9	5947.93	1954.91	5974.4	1954.18
5977.61	1954.13	5982.36	1954	5997.37	1953.17	5999.74	1953	6002.02	1952.79
6011.73	1952	6020.93	1951.61	6024.38	1951.53	6029.88	1951.38	6035.35	1951.21
6038.18	1951.15	6040.48	1951.11	6041.7	1951.11	6048.99	1951.09	6050.5	1951.09
6055.18	1951.02	6061.67	1951.05	6065.14	1951.04	6075.27	1951	6146.39	1951
6155.55	1951.37	6159.99	1951.5	6162.28	1951.59	6163.5	1951.62	6173.66	1952
6177.33	1952.14	6181.74	1952.26	6186.25	1952.32	6189.07	1952.37	6193.69	1952.51
6196.94	1952.6	6199.78	1952.64	6209.8	1953	6213.35	1953.17	6217.31	1953.3
6222.24	1953.43	6222.48	1953.42	6224.58	1953.45	6227.83	1953.39	6231.57	1953.3
6234.83	1953.17	6239.97	1952.94	6240.48	1952.94	6243.78	1952.81	6245.86	1952.77
6248.83	1952.65								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
2116.27	.045	2116.27	.04	6248.83	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
2116.27	6248.83	207.66	207.66	207.66	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1937.25	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.15	Wt. n-Val.		0.040	
W.S. Elev (ft)	1937.10	Reach Len. (ft)	207.66	207.66	207.66
Crit W.S. (ft)		Flow Area (sq ft)		7166.47	
E.G. Slope (ft/ft)	0.002424	Area (sq ft)		7166.47	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3205.96	Top Width (ft)		3205.96	
Vel Total (ft/s)	3.13	Avg. Vel. (ft/s)		3.13	
Max Chl Dpth (ft)	5.10	Hydr. Depth (ft)		2.24	
Conv. Total (cfs)	454928.2	Conv. (cfs)		454928.2	
Length Wtd. (ft)	207.66	Wetted Per. (ft)		3208.12	
Min Ch El (ft)	1932.00	Shear (lb/sq ft)		0.34	
Alpha	1.00	Stream Power (lb/ft s)	6248.83	0.00	0.00
Frctn Loss (ft)	0.57	Cum Volume (acre-ft)		2348.70	
C & E Loss (ft)	0.00	Cum SA (acres)		1128.44	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -6519.34

INPUT
Description:
Station Elevation Data num= 413

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
2141.94	1939	2144.14	1938.86	2156.07	1938	2163.38	1937	2168.28	1936.34
2170.49	1936.03	2177.43	1935	2186.79	1934.95	2192.46	1934.93	2194.36	1934.94
2202.91	1934.96	2212.11	1934.89	2214.13	1934.9	2215.98	1934.88	2218.89	1934.92
2223.7	1934.97	2227.95	1934.99	2230.97	1934.94	2235.84	1934.8	2261.61	1934.01
2267.48	1934.01	2275.11	1934	2282.61	1934	2292.44	1934.24	2294.97	1934.31
2304.4	1934.55	2326.34	1935	2334.6	1935	2340.1	1935.09	2355.7	1935.25
2419.15	1935.95	2423.59	1936	2487.26	1936	2497.78	1936.23	2500.2	1936.22
2504.97	1936.26	2511.1	1936.29	2514.09	1936.29	2517.36	1936.27	2524.72	1936.19
2528.57	1936.13	2529.98	1936.13	2534.66	1936	2542.53	1936	2543.08	1936.01
2550.85	1936.04	2561.3	1936.02	2563.98	1936.01	2576.86	1936.04	2583.59	1936.08
2589.17	1936	2598.71	1936	2619.24	1936.01	2628.99	1936	2644.19	1936
2650.36	1935.94	2670	1935.77	2670.26	1935.76	2680.57	1935.67	2689.63	1935.58
2703.17	1935.44	2720.6	1935.24	2732.66	1935.13	2737.88	1935.1	2742.59	1935
2746.57	1935	2750.81	1935.06	2752.55	1935.11	2779.05	1936	2779.98	1936
2793.43	1936.83	2794.71	1936.93	2796.16	1936.98	2798.06	1936.91	2798.42	1936.87
2801.99	1936.75	2816.39	1935.99	2819.03	1935.97	2824.79	1935.79	2831.09	1935.7
2842.15	1935.74	2844.51	1935.76	2853.81	1936	2859.72	1935.99	2873.07	1935.99
2876.35	1936	2882.39	1936	2891.67	1935.99	2897.68	1935.99	2904.14	1936
2954.83	1936	2957.56	1936.07	2960.37	1936.18	2966.51	1936.48	2972.11	1936.73
2977.04	1937	2979.65	1937.18	2996.17	1938	2999.51	1938.02	3009.06	1938.05
3020.56	1938	3025.03	1938	3028.09	1938.18	3042.5	1939	3055.96	1939
3069.17	1938.99	3072.91	1939	3090.37	1939	3100.52	1938.31	3103.01	1938.12
3104.81	1938	3116.74	1937.44	3126.47	1937	3146.23	1937	3159.87	1937.31
3173.2	1937.62	3179.27	1937.72	3191.61	1937.98	3199.14	1938	3204.75	1938
3205.63	1938.01	3209.07	1938	3215.88	1938.01	3233.35	1938.31	3248.15	1938.56
3251.71	1938.53	3256.09	1938.48	3261.71	1938.4	3269.04	1938.23	3279.85	1938
3284.84	1937.73	3285.6	1937.71	3291.41	1937.48	3299.34	1937.4	3302.12	1937.38
3305.77	1937.32	3310.39	1937.21	3322.79	1937.07	3327.13	1937.01	3328.85	1937
3334.89	1936.86	3336.79	1937	3338.15	1937.01	3338.58	1937.18	3345.2	1937.4
3348.68	1937.53	3359.43	1938	3363.5	1938.28	3370.17	1939	3376.94	1939.72

3380.69	1940	3389.97	1940.02	3399.05	1940	3402.55	1939.95	3406.21	1939.76
3411.86	1939.55	3414.57	1939.33	3415.81	1939.29	3419.37	1938.72	3426.72	1937.64
3431.75	1936.86	3436.92	1936	3443.26	1935	3449.76	1934	3455.99	1933
3462.71	1933	3469.79	1933.63	3473.55	1934	3476.69	1934.38	3481.26	1935
3487.67	1936	3500.33	1937	3538.34	1937	3541.91	1936.94	3547.59	1936.59
3558.3	1936	3563.65	1935.75	3578.6	1934.94	3584.99	1934.94	3599.93	1934.8
3607.76	1934.77	3620.06	1934.88	3628.4	1934.9	3643.25	1935	3694.78	1935
3697.37	1935.09	3700.44	1935.23	3704.13	1935.42	3706.5	1935.53	3715.51	1936
3759.16	1936	3778.48	1936.67	3785.73	1936.81	3790.09	1936.87	3793.79	1936.9
3799.16	1936.86	3801.06	1936.86	3802.19	1936.81	3804.63	1936.78	3818.17	1936
3832.36	1935.99	3854.99	1935.98	3863.68	1935.98	3886.5	1936	3998.78	1936
4000.2	1935.98	4001.52	1936	4004.2	1936.08	4007.96	1936.12	4010.75	1936.1
4017.61	1936	4020.98	1935.99	4035.44	1935.92	4055.83	1935.97	4070.14	1935.97
4089.39	1936	4096.69	1936.41	4101.43	1936.54	4104.53	1936.6	4108.16	1936.56
4112.51	1936.49	4119.23	1936.26	4123.78	1936.04	4125.39	1936	4129.65	1935.74
4131.98	1935.65	4134.21	1935.52	4142.17	1935.12	4147.85	1935.01	4153.64	1934.99
4153.99	1935	4163.43	1934.83	4170	1934.67	4198.06	1934	4202.51	1933.99
4239.69	1933.37	4250	1933.24	4252.49	1933.24	4255.98	1933.22	4265.8	1933.22
4269.84	1933.26	4270.36	1933.25	4273.28	1933.28	4282.1	1933	4323.72	1933.01
4392.27	1933.01	4400.53	1933	4402.91	1932.95	4406.85	1932.92	4414.09	1932.71
4425.55	1932.49	4429.87	1932.4	4430.71	1932.37	4446.86	1932	4451.61	1932
4463.36	1931.99	4501.9	1931.99	4509.8	1931.79	4518.42	1931.81	4526.06	1931.84
4536.7	1931.93	4540.51	1931.99	4542.42	1932	4546.07	1932.09	4567.83	1932.65
4576.15	1932.88	4579.76	1933	4580.91	1933.13	4595.07	1934	4608.59	1934.61
4615.05	1934.79	4616.84	1934.72	4621.98	1934.4	4626.86	1934	4639.67	1933.08
4640.71	1933	4661.85	1932	4668.73	1931.72	4675.55	1931.48	4688.52	1931
4715.54	1931	4721.24	1931.02	4730.63	1931.04	4764.77	1931.07	4767.56	1931.05
4781.75	1931.2	4800.67	1931.49	4830.72	1931.98	4834.43	1932	4841.55	1932.37
4846.9	1932.62	4852.62	1932.92	4854.61	1933	4878.92	1933	4887.87	1933.14
4908.09	1933.45	4912.11	1933.49	4918.05	1933.29	4924.91	1933.01	4934.13	1933.01
4935.17	1933	4942.21	1933.87	4944	1934.08	4945.81	1934.15	4949.16	1934.35
4954.36	1934.7	4959.99	1935	5017.9	1935	5024.25	1934.99	5029.41	1934.99
5033.87	1935	5112.13	1935	5118.38	1934.87	5124.87	1934.76	5125.29	1934.76
5131.6	1934.63	5134.71	1934.59	5136.55	1934.55	5157.44	1934.18	5176.47	1934
5205.4	1934	5205.58	1934.01	5215.5	1934.01	5234.83	1934.38	5248.54	1934.61
5250.4	1934.57	5253.86	1934.56	5265.56	1934.4	5285.75	1934.02	5286.97	1934
5291.02	1934	5297.07	1933.95	5307.32	1933.71	5311.33	1933.66	5315.51	1933.62
5328.04	1933.56	5331.39	1933.58	5335.18	1933.58	5361.03	1933.99	5365.23	1934
5394.95	1934	5403.98	1934.22	5406.39	1934.23	5411.63	1934.3	5422.14	1934.12
5425.17	1934.11	5429.62	1934	5493.26	1934	5497.09	1934.04	5509.21	1934.11
5510.27	1934.12	5518.43	1934.08	5525.36	1934.21	5533.97	1934	5673.42	1934
5694.72	1933.6	5696.43	1933.64	5698.71	1933.66	5705.68	1933.67	5706.16	1933.66
5711.11	1933.66	5712.77	1933.64	5715.89	1933.63	5720.34	1933.58	5724.06	1933.55
5726.61	1933.55	5741.99	1933.49	5754.47	1933.45	5769.29	1933.3	5795.54	1933.03
5796.33	1933	5860.53	1933	5868.09	1933.04	5869.95	1933.04	5879.04	1933
5879.42	1933.01	5884.34	1934.85	5890.65	1937	5893.92	1938.14	5896.43	1939
5899.82	1940.09	5906.08	1942.33	5908.07	1943	5912.74	1944.48	5914.42	1945
5921.43	1947.2	5924.12	1948	5925.46	1948.44	5930.49	1950	5934.33	1951
5940.75	1952.09	5945.64	1953	5948.33	1953.47	5951.24	1954	5953.94	1954.58
5955.57	1955	5996.88	1955	6014.21	1954.27	6020.04	1954	6032.08	1953.36
6038.96	1953	6059.22	1952	6072.72	1951.37	6081.43	1951.01	6081.81	1951
6210.12	1951	6216.33	1951.1	6220.33	1951.13	6230.62	1951.25	6238.61	1951.33
6242.9	1951.34	6248.3	1951.34	6289.16	1951.65				

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
2141.94	.045	2141.94	.04	6289.16	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
2141.94	6289.16	167.15	167.15	167.15	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1936.68	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.18	Wt. n-Val.		0.040	
W.S. Elev (ft)	1936.50	Reach Len. (ft)	167.15	167.15	167.15
Crit W.S. (ft)		Flow Area (sq ft)		6599.88	
E.G. Slope (ft/ft)	0.003094	Area (sq ft)		6599.88	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3133.68	Top Width (ft)		3133.68	
Vel Total (ft/s)	3.39	Avg. Vel. (ft/s)		3.39	
Max Chl Dpth (ft)	5.50	Hydr. Depth (ft)		2.11	
Conv. Total (cfs)	402676.2	Conv. (cfs)		402676.2	
Length Wtd. (ft)	167.15	Wetted Per. (ft)		3135.52	
Min Ch El (ft)	1931.00	Shear (lb/sq ft)		0.41	
Alpha	1.00	Stream Power (lb/ft s)	6289.16	0.00	0.00
Frctn Loss (ft)	0.54	Cum Volume (acre-ft)		2315.89	
C & E Loss (ft)	0.00	Cum SA (acres)		1113.33	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -6686.49

INPUT
Description:
Station Elevation Data num= 418

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
2116.22	1939	2116.34	1938.99	2123.65	1938.71	2135.33	1938.51	2142.64	1938
2145.42	1937.75	2154.92	1937	2157.16	1936.72	2162.77	1936	2166.9	1935.45
2170.24	1935	2178.21	1934.76	2183.15	1934.6	2188.94	1934.43	2201.39	1934.05
2203.22	1934	2250.6	1934	2258.47	1934.16	2275.74	1934.45	2284.34	1934.56
2284.67	1934.56	2292.66	1934.68	2305	1934.87	2307.57	1934.92	2309.73	1934.97
2311.68	1935	2317.32	1935.04	2320.67	1935.04	2334.86	1935.39	2346.29	1935.57
2349.13	1935.6	2369.57	1935.95	2373.48	1936	2609.94	1936	2619.94	1935.57
2627.09	1935.27	2629.8	1935.28	2630.79	1935.27	2651.84	1935.24	2674.67	1935.21
2695.9	1935.02	2698.02	1935	2758.24	1935	2765.1	1935.69	2768.32	1936
2773.19	1936.33	2777.82	1936.6	2781.45	1936.82	2784.86	1937	2786.39	1937.09
2792.14	1937.35	2795.4	1937.49	2804.62	1937.35	2820.57	1937.11	2821.86	1937.03
2822.62	1937	2878.87	1937	2893.36	1936.37	2909.2	1935.9	2912.6	1935.79
2927.25	1935.29	2937.4	1935.19	2941.11	1935.34	2950.89	1935.76	2953.71	1935.86
2957.08	1936	2964.86	1936.18	2967.56	1936.23	2973.52	1936.36	2978.81	1936.48
2996.56	1936.86	2999.2	1936.92	3003.89	1937	3005.98	1937	3013.7	1937.01
3016.61	1937.01	3025.05	1937.22	3037.05	1937.5	3045.18	1937.62	3057.94	1937.86
3058.16	1937.86	3064.39	1938	3070.88	1938.34	3074.67	1938.52	3085.71	1939
3088.73	1939	3095.05	1938.44	3100.17	1938	3103.25	1937.88	3110.19	1937.63
3114.89	1937.47	3117.87	1937.38	3121.44	1937.3	3125.86	1937.19	3132.07	1937.09
3132.95	1937.07	3138.18	1937.02	3140.73	1937.05	3143.88	1937.15	3146.9	1937.21
3158.28	1937.56	3176.84	1937.93	3180.71	1938	3183.68	1938	3188.43	1937.84
3190.49	1937.78	3213.36	1937	3274.21	1937	3278.17	1936.69	3286.67	1936
3293.02	1935.41	3297.57	1935	3299.27	1934.87	3301.12	1934.8	3308.23	1934.39
3310.57	1934.26	3311.64	1934.25	3317.38	1934.01	3327.06	1934.01	3333.45	1934.24
3344.97	1934.61	3345.72	1934.61	3351.58	1934.91	3353.27	1935.01	3364.31	1936
3375.42	1936.51	3379.86	1936.68	3381.82	1936.76	3388.31	1937	3393.71	1937.03
3396.63	1937.03	3399.76	1937	3411.85	1936.22	3414.89	1936	3419.33	1935.81
3437.08	1935	3440.12	1935	3441.47	1934.99	3447.42	1934.99	3450.98	1935
3454.98	1935	3464.91	1935.66	3470.15	1936	3474.84	1936.26	3478.17	1936.42
3486.57	1936.96	3489.12	1936.97	3490.78	1937	3498.59	1937.57	3498.75	1937.57
3502.89	1937.44	3509.04	1937.06	3510.77	1937	3514.23	1936.75	3516.72	1936.55
3522.28	1936	3526.36	1935.68	3528.17	1935.57	3528.74	1935.52	3529.28	1935.51
3530.11	1935.43	3530.58	1935.43	3533.74	1935.21	3534.86	1935.15	3536.29	1935.13
3538.47	1935.13	3540.99	1935.14	3548.8	1935.22	3559.36	1935	3588.18	1935
3588.73	1934.97	3605.44	1934.02	3609.44	1934.01	3609.71	1934.02	3623.95	1934.46
3626.94	1934.49	3647.65	1934.8	3657.7	1934.94	3659.78	1935	3780.27	1935
3789.32	1935.42	3800.31	1935.92	3803.31	1936	3806.08	1936.14	3810.47	1936.11
3814.67	1936.01	3815.57	1936	3826.22	1935.78	3828.84	1935.79	3829.33	1935.8
3835.3	1935.78	3846	1935.67	3856.49	1935.58	3872.95	1935.46	3902.7	1935.24
3903.85	1935.23	3924.76	1935	3940.76	1934.95	3946.82	1934.97	3949.32	1934.97
3964.63	1935	4015.86	1935	4019.31	1935.01	4021.28	1935.01	4028.48	1935
4042.34	1935	4045.71	1934.98	4078.11	1934.42	4089.18	1934.29	4091.91	1934.24
4093.82	1934.22	4097.09	1934.24	4100.27	1934.23	4103.13	1934.25	4105.41	1934.25
4107.1	1934.26	4110.6	1934.3	4113.73	1934.36	4117.43	1934.45	4122.36	1934.54
4123.77	1934.56	4130.09	1934.63	4134.24	1934.72	4139.92	1934.82	4141.86	1934.85
4143.54	1934.85	4145.07	1934.87	4147.34	1934.85	4148.98	1934.85	4151.35	1934.76
4152.16	1934.76	4154.62	1934.72	4156.07	1934.68	4164.92	1934.39	4193.49	1934.03
4194.9	1934.01	4199	1934.01	4204.73	1934	4287.65	1934	4311.08	1933.44
4322.64	1933.17	4326.2	1933.06	4328.82	1933	4330.28	1932.99	4335.56	1932.99
4340.82	1932.98	4343.86	1932.97	4346.78	1932.98	4349.59	1933	4351.78	1933
4357.17	1933.01	4361.79	1933	4366.38	1933	4381.43	1932.96	4398.38	1932.98
4401.41	1932.97	4402.79	1932.98	4404.77	1932.98	4407.44	1933	4411.07	1933.15
4428.83	1934	4436.51	1934	4444.45	1933.21	4447.21	1933	4453.41	1932.7
4454.07	1932.65	4464.39	1932	4465.17	1931.96	4478.37	1931.41	4481.23	1931.31
4485.12	1931.16	4487.7	1931.01	4488.69	1931.01	4499.71	1931.07	4507.03	1931.05
4519.75	1931.05	4523.08	1931.04	4527.67	1931.04	4532.5	1931.06	4537.32	1931.04
4541.08	1931.03	4545.68	1931.03	4555.08	1931.14	4562.84	1931.14	4563.1	1931.15
4606.54	1931.07	4619.72	1931.05	4646.98	1931	4725.4	1931	4743.84	1931.65
4744.23	1931.66	4754.78	1932	4764.46	1932.15	4770.54	1932.23	4779.51	1932.39
4781.9	1932.43	4807.3	1932.99	4813.77	1933	4818.3	1933.09	4844.5	1933.34
4860.41	1933.45	4860.82	1933.45	4880.31	1933.1	4884.62	1933.02	4887.17	1933.01
4903.03	1933.01	4906.93	1933	4911.22	1933	4916.52	1932.68	4928.65	1932.96
4930.41	1932.96	4942.57	1932.99	4949.71	1933	4963.12	1933	4978.8	1933.02
4998.92	1933.02	5004.5	1933.01	5016.87	1933	5063.25	1933	5067.9	1933.2
5088.83	1934	5095.72	1934	5106.14	1934.16	5124.76	1934.27	5139.44	1934.34
5143.56	1934.34	5145.05	1934.35	5165.04	1934	5165.85	1934	5194.11	1934.5
5215.62	1934.87	5217.83	1934.92	5219.01	1934.92	5224.9	1935	5228.29	1935
5238.77	1934.89	5254.2	1934.74	5260.71	1934.6	5283.99	1934.07	5286.4	1934
5335.48	1934	5377.35	1933.75	5378.14	1933.75	5389.08	1933.55	5419.92	1933
5530.2	1933	5541.67	1933.1	5552.57	1933.05	5561.2	1933	5582.95	1933
5590.79	1933.23	5601.01	1933.54	5616.59	1934.03	5625.08	1934.28	5639.47	1934.03
5650.96	1934.03	5667	1934.02	5675.5	1934.02	5682.92	1934.01	5685.24	1934.01
5692.34	1934	5707.23	1933.81	5710.1	1933.78	5717.2	1933.69	5772.58	1933
5959.39	1933	5962.41	1933.01	5967.14	1933	5969.69	1934	5971.02	1934.47
5972.39	1935	5973.8	1935.53	5974.88	1936	5976.04	1936.56	5977.19	1937
5978.57	1937.6	5982.54	1939.37	5983.92	1940	5984.74	1940.36	5986.83	1941.31
5991.55	1943.39	5993.76	1944.38	5996.08	1945.43	5997.37	1946	5999.59	1947
6000.31	1947.34	6000.95	1947.48	6003.47	1947.86	6004.84	1948.1	6006.49	1948.45
6008.94	1949.04	6012.4	1950	6014.63	1950.5	6018.38	1951	6022.38	1951.49
6026.46	1952	6029.17	1952.32	6035.15	1953	6037.72	1953.16	6039.94	1953.27
6043.52	1953.35	6049.07	1953.55	6052.03	1953.65	6058.34	1953.72	6060.6	1953.73
6065.51	1953.67	6073.24	1953.57	6074.7	1953.54	6092.48	1953	6106.69	1952.42
6116.75	1952	6123.72	1952	6153.9	1951.41	6183.69	1951	6282.21	1951
6284.08	1951.01	6318.32	1951.27	6342.42	1951.46				

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
2116.22	.045	2116.22	.04	6342.42	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
2116.22	6342.42	104.27	104.27	104.27	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1936.14	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.20	Wt. n-Val.		0.040	
W.S. Elev (ft)	1935.94	Reach Len. (ft)	104.27	104.27	104.27
Crit W.S. (ft)		Flow Area (sq ft)		6310.33	
E.G. Slope (ft/ft)	0.003352	Area (sq ft)		6310.33	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	2974.60	Top Width (ft)		2974.60	
Vel Total (ft/s)	3.55	Avg. Vel. (ft/s)		3.55	
Max Chl Dpth (ft)	4.94	Hydr. Depth (ft)		2.12	
Conv. Total (cfs)	386909.9	Conv. (cfs)		386909.9	
Length Wtd. (ft)	104.27	Wetted Per. (ft)		2975.90	
Min Ch El (ft)	1931.00	Shear (lb/sq ft)		0.44	
Alpha	1.00	Stream Power (lb/ft s)	6342.42	0.00	0.00
Frctn Loss (ft)	0.33	Cum Volume (acre-ft)		2291.12	
C & E Loss (ft)	0.00	Cum SA (acres)		1101.61	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -6790.76

INPUT
Description:
Station Elevation Data num= 417

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
2098.6	1938.39	2105.74	1938.42	2111.42	1938.37	2117.18	1938.28	2125.44	1938.1
2127.49	1938	2137.34	1937	2139.87	1936.71	2147.24	1935.85	2152.88	1935
2156.06	1934.28	2157.07	1934	2220.09	1934	2272.52	1935	2352.61	1935
2357.22	1935.15	2358.92	1935.17	2360.25	1935.22	2363.03	1935.24	2363.83	1935.27
2364.71	1935.27	2365.38	1935.3	2387.62	1935.73	2392.86	1935.83	2396.55	1935.83
2398.05	1935.84	2408.73	1935.86	2414.19	1935.88	2449.96	1935.8	2465.8	1936
2563.8	1936	2566.27	1935.94	2581.19	1935.63	2608.33	1935.07	2609.89	1935.04
2610.87	1935	2779.38	1935	2787.64	1935.28	2790.59	1935.35	2792.26	1935.4
2803.95	1935.65	2809.32	1935.75	2812.75	1935.8	2820.28	1936.01	2838.36	1936.6
2844.12	1936.84	2847.7	1937	2855.34	1937	2864.83	1936.99	2870.22	1936.84
2880.48	1936.68	2884.65	1936.6	2889.52	1936.47	2908.48	1936	2920.78	1935.54
2922.34	1935.55	2925.35	1935.46	2925.75	1935.47	2929.9	1935.44	2933.73	1935.44
2939.91	1935.58	2952.49	1935.89	2956.21	1936	2957.5	1936.02	2962.12	1936.32
2967.87	1936.55	2969.02	1936.62	2976.33	1936.92	2987	1937.5	2992.69	1937.31
2997.4	1937.06	3001.05	1937	3009.16	1936.54	3018.55	1936	3022.8	1935.7
3023.48	1935.69	3029.31	1935.37	3035.24	1935.35	3043.45	1935.51	3044.84	1935.52
3047.68	1935.65	3049.88	1935.7	3053.66	1935.99	3053.92	1935.99	3064.82	1936.77
3067.99	1937	3072.95	1937.38	3076.47	1937.67	3081.02	1938	3090.66	1938.1
3094.92	1938.11	3116.53	1938.26	3127.37	1938.22	3138.03	1938.22	3160.3	1938.07
3161.47	1938.06	3169.37	1938.25	3172.78	1938.22	3173.3	1938.23	3175.8	1938.2
3176.26	1938.21	3180.35	1938.18	3182.02	1938.18	3190.45	1938.01	3196.25	1938.01
3203.54	1938	3211.83	1938	3220.11	1937.99	3233.32	1937.99	3257.59	1937.31
3258.36	1937.3	3267.02	1937	3267.42	1936.98	3281.75	1936	3285.56	1935.78
3299.45	1935	3309.93	1934.32	3311.31	1934.26	3312.67	1934.18	3315.59	1934.06
3317.62	1934.1	3320.62	1934.27	3330.86	1934.89	3340.04	1935.35	3343.79	1935.42
3346.58	1935.46	3348.71	1935.47	3349.24	1935.46	3354.75	1935.54	3357.07	1935.48
3360.25	1935.37	3366.7	1935	3368.07	1934.99	3369.62	1935	3370.76	1935.05
3372.81	1935.11	3387.18	1935.55	3392.4	1935.68	3402.23	1936	3407.96	1936.31
3418.71	1936.9	3420.46	1937	3481.75	1937	3489.58	1936.76	3491.38	1936.69
3497.82	1936.49	3507.65	1936.18	3514.04	1936	3519.35	1935.9	3522.11	1935.86
3524.12	1935.82	3526.77	1935.75	3547.5	1935	3552.87	1935	3558.83	1935.01
3563.8	1935.01	3566.68	1935.02	3569.98	1935.01	3577.81	1935	3589.45	1934.11
3591.05	1934	3605.57	1933.45	3605.86	1933.45	3611.46	1933.31	3614.59	1933.25
3615.12	1933.25	3618.7	1933.38	3630.99	1933.85	3633.3	1934	3638.95	1934.01
3659.46	1934.93	3660.33	1935	3662.14	1935.07	3674.07	1935.56	3675.28	1935.58
3683.94	1935.66	3689.78	1935.72	3694.01	1935.67	3701.58	1935.57	3709.15	1935.52
3715.73	1935.46	3717.58	1935.46	3736.82	1935	3774.11	1935	3788.71	1934.78
3805.45	1934.62	3817.15	1934.58	3818.41	1934.58	3825.26	1934.39	3837.77	1934
3865.98	1934	3870.55	1934.32	3874.29	1934.62	3879.08	1934.97	3880.86	1935
3890.73	1935	3903.59	1934.71	3922.13	1934.22	3927.76	1934.08	3930.98	1933.99
3942.38	1933.95	3949.75	1933.97	3956.6	1934	3968.02	1934.01	3968.32	1934.02
3980.18	1934	3993.81	1934	3997.22	1934.19	3999.09	1934.32	4004.16	1934.16
4004.35	1934.16	4006.63	1934	4013.02	1934	4015.3	1933.97	4016.61	1933.98
4017.63	1933.94	4018.86	1934	4131.02	1934	4131.52	1933.99	4136.22	1933.99
4138.62	1933.98	4152.31	1933.97	4157.5	1933.96	4164.11	1933.97	4167.82	1933.97
4175.57	1933.99	4185.59	1934	4223.51	1934	4236.6	1933.75	4241.95	1933.64
4268.01	1933.14	4275.71	1933	4291.13	1933	4297.95	1933.21	4298.17	1933.21
4315.83	1933.06	4322.07	1933	4355.86	1933	4361.2	1933.01	4370.25	1933
4371.01	1932.99	4375.69	1932.97	4383.31	1933	4392.53	1933	4398.94	1932.84

4405.18	1932.66	4428.49	1932	4443.58	1931.17	4443.61	1931.16	4447.08	1931
4452.86	1930.95	4472.82	1930.48	4491.8	1930.05	4493.48	1930	4511.99	1930
4534.5	1931	4639.15	1931	4643.14	1930.56	4643.82	1930.52	4644.97	1930.4
4646.44	1930.32	4648.53	1930.27	4651.1	1930.33	4652.53	1930.35	4654.01	1930.4
4655.2	1930.46	4662.37	1930.69	4664.32	1930.79	4667.48	1930.9	4669.75	1931
4687.95	1931	4688.67	1930.99	4692.7	1930.98	4697.99	1931	4713.29	1931.63
4727.5	1932	4748.07	1932	4771.68	1932.33	4783.74	1932.5	4793.23	1932.58
4800.92	1932.64	4817.23	1932.76	4831.23	1932.87	4835.88	1932.91	4838.9	1932.91
4848.59	1932.94	4861.28	1933	4866.67	1933.08	4872.67	1933.16	4873.13	1933.16
4890.43	1933	4949.97	1933	5038.83	1932.28	5042.63	1932.24	5052.6	1932.21
5060.2	1932.18	5061.44	1932.18	5074.5	1932.14	5076.94	1932.13	5092.08	1932.09
5105.06	1932.14	5106.13	1932.16	5111.84	1932.12	5112.83	1932.13	5116.55	1932.13
5118.59	1932.17	5123.38	1932.25	5124.32	1932.25	5130.03	1932.31	5137.73	1932.48
5147.62	1932.58	5151.49	1932.56	5156.17	1932.5	5160.6	1932.84	5161.46	1933
5173.32	1933.52	5176.85	1933.68	5184.21	1934	5332.93	1934	5337.5	1933.9
5354.11	1933.56	5354.98	1933.54	5375.26	1933.19	5384.16	1933	5415.72	1933
5421.98	1933.01	5431.12	1933	5548.23	1933	5548.54	1932.99	5562.86	1932.72
5565.89	1932.61	5579.11	1932	5590.98	1931.68	5601	1931.46	5613.88	1931.16
5623.16	1931	5645.54	1931	5651.38	1931.3	5661.37	1931.75	5663.96	1931.88
5668.52	1932.07	5671.08	1932.22	5678.5	1932.55	5686.86	1932.99	5687.17	1933
5699.16	1933.27	5717.97	1933.69	5735.08	1934	5746.07	1934	5760.15	1933.58
5763.17	1933.55	5763.89	1933.53	5773.92	1933.44	5774.86	1933.42	5789.56	1933.19
5793.9	1933.12	5802.47	1933	5945.23	1933	5955.87	1933.82	5958.75	1934
5970.13	1935	5976.15	1935.08	5979.41	1935.08	5984.52	1935.02	5986.2	1935.11
5987.5	1935.15	5990.58	1936	5994.27	1937	5995.02	1937.14	5998.21	1938
6001.94	1938.53	6005.15	1939	6011.92	1939.98	6013.25	1940.15	6016.86	1940.53
6018.64	1941	6020.07	1941.4	6022.09	1942	6028.18	1943.7	6029.96	1944.22
6032.37	1945	6033.79	1945.31	6036.47	1946	6041.37	1946.83	6042.58	1947
6052.72	1947.29	6053.62	1947.29	6056.18	1947.35	6058.8	1947.4	6067.52	1947.42
6077.99	1947.57	6080.89	1947.58	6085.7	1947.65	6093.98	1947.71	6099.68	1947.76
6111.06	1947.77	6115.99	1947.77	6121.01	1947.78	6131.94	1947.81	6143.99	1947.85
6166.73	1948	6175.61	1948	6185.51	1948.29	6189.63	1948.29	6194.34	1948.42
6208.62	1948.51	6209.55	1948.52	6218.22	1948.65	6220.61	1948.67	6223.73	1948.71
6231.11	1948.76	6231.78	1948.76	6248.68	1948.87	6262.9	1948.99	6265.91	1948.99
6266.27	1949	6316.88	1949						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
2098.6	.045	2098.6	.04	6316.88	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
2098.6	6316.88	147.26	147.26	147.26	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1935.80	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.18	Wt. n-Val.		0.040	
W.S. Elev (ft)	1935.62	Reach Len. (ft)	147.26	147.26	147.26
Crit W.S. (ft)		Flow Area (sq ft)		6548.52	
E.G. Slope (ft/ft)	0.003051	Area (sq ft)		6548.52	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3041.43	Top Width (ft)		3041.43	
Vel Total (ft/s)	3.42	Avg. Vel. (ft/s)		3.42	
Max Chl Dpth (ft)	5.62	Hydr. Depth (ft)		2.15	
Conv. Total (cfs)	405533.9	Conv. (cfs)		405533.9	
Length Wtd. (ft)	147.26	Wetted Per. (ft)		3042.43	
Min Ch El (ft)	1930.00	Shear (lb/sq ft)		0.41	
Alpha	1.00	Stream Power (lb/ft s)	6316.88	0.00	0.00
Frctn Loss (ft)	0.55	Cum Volume (acre-ft)		2275.73	
C & E Loss (ft)	0.00	Cum SA (acres)		1094.41	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -6938.02

INPUT
Description:
Station Elevation Data num= 414

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
2085.03	1937.99	2100.01	1937.42	2102.94	1937.32	2103.5	1937.31	2112.68	1937
2118.69	1936.61	2122.58	1936.29	2126.39	1936	2127.05	1935.94	2138.21	1935
2145.31	1934.21	2146.96	1934	2275.69	1934	2276.86	1933.92	2278.19	1934
2290.2	1933.98	2294.94	1933.97	2299.15	1934	2324.9	1934.31	2338.63	1934.47
2340.11	1934.48	2349.48	1934.57	2352.14	1934.62	2372.27	1934.77	2379.69	1934.79
2383.8	1934.79	2386.47	1934.77	2399.14	1934.99	2414.51	1934.99	2437.31	1935
2601.6	1935	2610.33	1934.99	2618.65	1934.99	2619.25	1934.98	2636.83	1934.98
2639.18	1934.99	2641.86	1934.99	2649.81	1935	2663.84	1935	2668.31	1934.91
2668.46	1934.9	2680	1934.78	2691.04	1934.86	2692.77	1934.93	2694.8	1934.95
2697.95	1934.88	2709.09	1934.77	2718.02	1934.7	2718.34	1934.71	2722.79	1934.71
2723.06	1934.72	2725.52	1934.72	2725.95	1934.73	2736.25	1934.69	2744.06	1934.77
2754.69	1934.94	2758.67	1935	2839.65	1935	2858.75	1935.71	2866.24	1936
2867.6	1936.02	2875.91	1936.35	2883.13	1936.61	2885.96	1936.67	2887.99	1936.75
2889.05	1936.77	2891.13	1936.85	2892.22	1936.88	2893.97	1936.88	2895.84	1936.94

2899.75	1937	2902.88	1937	2903.52	1936.99	2906.97	1936.79	2909.55	1936.61
2912.2	1936.39	2917.9	1936	2932.1	1935.67	2934.13	1935.63	2943.26	1935.48
2949.2	1935.41	2951.8	1935.35	2955.05	1935.34	2955.63	1935.33	2960.3	1935.39
2967.71	1935.47	2969.7	1935.51	2970.86	1935.52	2976.43	1935.66	2978.58	1935.64
2985.66	1935.65	2995.58	1935.52	3004.02	1935.42	3006.89	1935.37	3014.59	1935.01
3021.83	1935.01	3022.99	1935	3029.98	1935	3030.19	1935.01	3064.92	1935.95
3067.55	1936	3068.77	1936.05	3079.99	1936.36	3080.8	1936.38	3089.49	1936.65
3095.67	1936.72	3102.4	1936.82	3110.8	1937	3127.31	1937.44	3128.29	1937.48
3131.04	1937.56	3134.34	1937.67	3143.1	1938	3150.8	1938	3158.4	1938.06
3161.39	1938.04	3168.93	1938.15	3179.58	1938.19	3190.63	1938.17	3206.63	1938
3228.51	1938	3237.99	1937.51	3246.38	1937.07	3248.1	1937	3251.82	1936.8
3257.62	1936.56	3259.31	1936.47	3261.15	1936.39	3263.45	1936.27	3265.94	1936.18
3270.27	1936.11	3271.69	1936.14	3276.66	1936.32	3281.91	1936.55	3289.74	1937
3293.54	1937.02	3299.01	1937.03	3302.72	1937	3306.29	1936.81	3306.69	1936.8
3322.94	1936.01	3329.39	1936.01	3334.84	1936	3339.61	1936	3341.86	1935.94
3343.84	1935.95	3347.75	1936	3363.58	1935.99	3377.9	1935.99	3396.23	1936
3406.72	1936	3409.2	1936.26	3415.91	1937	3457.96	1937	3462.39	1936.55
3463.87	1936.34	3466.97	1936	3469.29	1935.92	3471.62	1935.66	3474.99	1935.36
3476.2	1935.3	3478.61	1935.24	3490.62	1935.33	3491.69	1935.31	3498.67	1935.35
3501.69	1935.28	3506.45	1935.21	3510.71	1935.12	3511.76	1935.12	3518.38	1935
3527.8	1934.81	3529.34	1934.73	3532.03	1934.63	3533.79	1934.53	3541.98	1934.63
3551.75	1935	3577.38	1935	3602.73	1934.17	3607.1	1934.03	3608.26	1934
3620.18	1934	3639.63	1933.47	3648.24	1933.6	3650.58	1933.64	3654.45	1933.74
3664.81	1933.94	3665.55	1934	3666.75	1934.01	3673.12	1934.31	3682.45	1934.66
3689.36	1935	3801.33	1935	3806.69	1934.83	3839.61	1934.03	3841.46	1934.02
3848.95	1934.02	3858.98	1934	3862.57	1933.98	3863.85	1934	3878.86	1934
3883.4	1933.99	3891.43	1934	3897.96	1934	3901.95	1934.01	3904.54	1934.04
3911.21	1934	3914.09	1934	3924.89	1934.01	3949.33	1934.01	3957.38	1934
3966.04	1934	3969.64	1933.96	3978.15	1933.62	3984.67	1933.44	3987.46	1933.4
3993.08	1933.82	3995.13	1933.98	3997.75	1933.98	4004.06	1933.99	4004.23	1933.98
4032.23	1933.65	4035.69	1933.57	4041.35	1933.43	4044.24	1933.43	4045.56	1933.39
4046.21	1933.39	4048.6	1933.33	4062.38	1933	4148.4	1933	4154.56	1933.19
4157.56	1933.24	4159.62	1933.33	4160.91	1933.34	4163.1	1933.41	4174.45	1933.64
4179.53	1933.74	4181.27	1933.72	4182.7	1933.72	4187.28	1933.65	4189.15	1933.63
4197.17	1933.51	4201.87	1933.43	4203.2	1933.4	4211.42	1933.27	4212.09	1933.27
4220.87	1933	4369.22	1933	4371.43	1932.99	4383.61	1932.82	4386.53	1932.77
4404.44	1932.53	4420.63	1932.23	4420.79	1932.23	4431.95	1932	4443.49	1931.34
4448.93	1931	4454.57	1930.71	4456.25	1930.64	4462.59	1930.3	4469.65	1930.08
4471.66	1930.01	4472.42	1930	4546.38	1930	4554.35	1930.01	4575.96	1930.43
4577.59	1930.52	4590.68	1931	4683.12	1931	4734.17	1931.34	4752.82	1931.43
4806.9	1931.71	4822.74	1931.79	4859.06	1931.99	4864.22	1932	4867.26	1932.1
4868.38	1932.1	4875.79	1932.28	4880.49	1932.29	4885.91	1932.32	4895.81	1932.41
4909.73	1932.6	4916.11	1932.68	4919.01	1932.71	4931.14	1932.66	4948.56	1932.58
4951.6	1932.62	4953.79	1932.63	4955.01	1932.61	4960.71	1932.54	4968.02	1932.49
4975.79	1932.5	4984.53	1932.58	4996.77	1932.7	4997.78	1932.72	5009.05	1932.88
5017.66	1933	5039.89	1933	5042.41	1932.8	5043.11	1932.76	5045.28	1932.59
5048.68	1932.45	5050.64	1932.31	5055.67	1932.15	5056.72	1932.09	5060.87	1932
5076.54	1932	5083.1	1931.94	5094.47	1931.84	5097.75	1931.84	5100.94	1931.85
5106.06	1931.81	5107.61	1931.79	5117.54	1931.75	5136.85	1931.57	5151.14	1931.49
5172.22	1931.36	5196.44	1931.14	5215.99	1930.97	5222.12	1930.95	5223.82	1930.93
5231.41	1931	5233.11	1931.55	5234.28	1932	5237	1932.81	5237.55	1933
5239.61	1933.15	5250.22	1934	5277.76	1934	5292.11	1933.59	5301.7	1933.32
5310.75	1933.07	5313.39	1933	5315.3	1933	5317.1	1933.03	5339.34	1933.3
5352	1933.45	5355.79	1933.48	5359.99	1933.54	5374.17	1933.37	5404.21	1933
5458.14	1933	5463.39	1932.99	5472.09	1933	5474.47	1932.99	5491.53	1932.99
5495.46	1932.98	5523.35	1932.94	5524.71	1932.94	5556.3	1932.89	5559.14	1932.88
5562.13	1932.91	5563.44	1932.89	5564.34	1932.9	5566.08	1932.87	5567.26	1932.87
5570.62	1932.8	5575.83	1932.71	5585.51	1932.47	5593.78	1932.29	5604.28	1932
5795.28	1932	5805.11	1932.31	5806.01	1932.28	5811.73	1932.45	5816.54	1932.31
5820.55	1932.41	5833.05	1932.01	5834.35	1932.02	5896.88	1932.69	5914.41	1932.87
5924.98	1933	5933.82	1933.42	5939.87	1933.72	5943.07	1933.86	5945.5	1934
5952.36	1934.56	5957.58	1935	5961.27	1935.28	5963.74	1935.46	5972.48	1936
5985.9	1936.97	5986.23	1937	5995.14	1937.51	5995.84	1937.56	6001.28	1937.86
6003.45	1938	6009.06	1938	6015.2	1938.01	6024.5	1938	6026.49	1939
6030.77	1941	6032.98	1942	6034.38	1942.61	6037.86	1944.2	6040.28	1945.13
6048.8	1946	6053.2	1946.39	6055.54	1946.63	6059.34	1947	6060.19	1947.01
6064.1	1947.1	6088.96	1947.12	6114.81	1947.12	6118.2	1947	6120.71	1947
6143.25	1947.25	6149.8	1947.31	6164.6	1947.46	6206.65	1947.89	6217.72	1948
6220.43	1948.02	6242.3	1948.26	6262.45	1948.46	6302.16	1948.87		

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
2085.03	.045	2085.03	.04	6302.16	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
2085.03	6302.16		47.69	47.69	47.69	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1935.25	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.23	Wt. n-Val.		0.040	
W.S. Elev (ft)	1935.03	Reach Len. (ft)	47.69	47.69	47.69
Crit W.S. (ft)		Flow Area (sq ft)		5875.30	
E.G. Slope (ft/ft)	0.004608	Area (sq ft)		5875.30	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3159.82	Top Width (ft)		3159.82	
Vel Total (ft/s)	3.81	Avg. Vel. (ft/s)		3.81	
Max Chl Dpth (ft)	5.03	Hydr. Depth (ft)		1.86	

Conv. Total (cfs)	329965.4	Conv. (cfs)		329965.4	
Length Wtd. (ft)	47.69	Wetted Per. (ft)		3160.64	
Min Ch El (ft)	1930.00	Shear (lb/sq ft)		0.53	
Alpha	1.00	Stream Power (lb/ft s)	6302.16	0.00	0.00
Frctn Loss (ft)	0.17	Cum Volume (acre-ft)		2254.73	
C & E Loss (ft)	0.02	Cum SA (acres)		1083.92	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -6985.71

INPUT
Description:
Station Elevation Data num= 429

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
2256.49	1937	2264.62	1936	2271.23	1934.98	2276.22	1934	2292.41	1934
2296.12	1933.92	2311.79	1933.66	2321.58	1933.52	2324.89	1933.46	2344.75	1933.23
2344.94	1933.22	2357.95	1933	2398.61	1933	2401.56	1933.01	2412.22	1933.01
2414.41	1933.02	2425.79	1933.05	2432.32	1933.06	2439.1	1933.08	2441.4	1933.07
2454.48	1933.07	2461.76	1933.05	2475.64	1933.27	2476.66	1933.27	2479.26	1933.31
2486.14	1933.66	2492.93	1934	2541.29	1934	2550.95	1934.05	2556.21	1934.11
2564.4	1934.24	2570.64	1934.37	2572.55	1934.4	2574.99	1934.46	2591.95	1934.78
2597.57	1934.88	2600.19	1934.99	2604.62	1935	2605.07	1934.96	2606.59	1935
2610.36	1935.2	2614.39	1935.23	2618.68	1935.15	2620.69	1935	2639.06	1934.34
2647.91	1934	2649.81	1934	2653.15	1934.12	2658.41	1934.15	2670.37	1934.31
2679.94	1934.4	2685.08	1934.43	2702.03	1934.4	2721.16	1934.36	2721.72	1934.35
2728.49	1934	2743.89	1934	2751.65	1934.12	2757.99	1934.21	2766.1	1934.34
2769.46	1934.4	2792.74	1935	2795.9	1934.99	2832.06	1934.27	2832.92	1934.26
2847.32	1934	2848.38	1933.99	2866.36	1933.22	2869.01	1933.13	2875.1	1933
2883.18	1933	2886.58	1933.12	2896.48	1933.5	2900.01	1933.64	2909.75	1934
2920.37	1934.26	2920.51	1934.27	2941.54	1934.63	2943.33	1934.64	2947.64	1934.71
2953.12	1934.81	2957.65	1934.93	2959.92	1935	2967.53	1935	2976.11	1935.01
2982.51	1935	3013.45	1935	3024.51	1934.99	3027.45	1935	3089.74	1935
3103.93	1934.98	3107.34	1934.98	3122.71	1934.96	3136.17	1934.97	3153.5	1934.99
3156.32	1935	3223.7	1935	3226.99	1935.01	3228.83	1935	3234.06	1935
3237.15	1935.13	3243.9	1935.44	3252.72	1936	3256.15	1936.09	3279.25	1936.19
3300.91	1936.14	3301.84	1936.14	3306.29	1936.04	3308.51	1936	3313.43	1936
3317.69	1936.07	3318.72	1936.07	3331.19	1936.27	3335.57	1936.29	3340.4	1936.36
3359.85	1936.24	3389.72	1936.02	3390.9	1936	3401.78	1935.59	3409.99	1935.29
3417.52	1935	3419.83	1934.98	3425.44	1934.96	3429.75	1934.96	3433.93	1934.98
3436.82	1934.91	3440.73	1934.89	3443.41	1934.85	3445.7	1934.8	3446.7	1934.81
3454.05	1934.64	3461.21	1934.59	3467.48	1934.56	3469.15	1934.57	3482.97	1934.85
3487.36	1934.96	3493.93	1934.98	3495.87	1934.98	3500.91	1935	3504.2	1935.37
3504.7	1935.44	3509.97	1936	3511.72	1936.04	3513.85	1936.15	3522.09	1936.26
3522.33	1936.27	3543.08	1936.9	3546.88	1936.93	3551.52	1936.93	3554.44	1936.96
3562.39	1937	3566.6	1937.11	3569.64	1937.23	3585.06	1937.96	3590.18	1937.96
3590.64	1938	3593.91	1938.07	3594.27	1938	3596.29	1937.73	3602.37	1937
3610.46	1936	3617.57	1935.16	3618.99	1935	3646.07	1935	3649.89	1935.01
3653.26	1935	3708.85	1935	3714.92	1934.99	3720.37	1935	3727.8	1935
3740.11	1934.47	3740.71	1934.45	3751.68	1934	3800.35	1934	3820.73	1933.98
3827.13	1933.98	3827.85	1933.99	3841.38	1933.99	3844.73	1934	3849.93	1934
3858.53	1934.01	3863.09	1934	3866.94	1934	3871.09	1933.99	3885.25	1933.93
3899.53	1933.96	3905.46	1933.99	3915.93	1934.01	3925.52	1934	3931.11	1933.95
3936.03	1933.92	3945.18	1933.89	3952.69	1933.84	3965.53	1933.04	3965.98	1933
4003.23	1933	4014.47	1933.36	4018.26	1933.44	4025.85	1933.5	4040.63	1933.89
4043.61	1933.99	4069.57	1933.99	4078.96	1933.98	4089.24	1933.99	4093.46	1933.66
4098.43	1933.56	4102.46	1933.46	4108.57	1933.29	4110.06	1933.27	4113.67	1933.17
4115.31	1933.14	4119.31	1933.19	4122.59	1933.22	4129.93	1933.34	4143.52	1933.29
4161.06	1933.14	4165.15	1933.1	4170.68	1933.03	4178.78	1933	4264.99	1933
4271.47	1932.64	4272.36	1932.65	4280.9	1932.64	4283.96	1932.7	4289.53	1932.68
4290.77	1932.71	4292.01	1932.71	4293.18	1932.68	4296.05	1932.78	4298.31	1932.73
4299.68	1932.77	4306.58	1932.61	4335.26	1932.98	4336.49	1933	4409.33	1933
4409.97	1933.01	4413.9	1933.25	4418.65	1933.53	4425.7	1933.8	4428.02	1933.73
4433.4	1933.54	4435.91	1933.36	4441.29	1933	4446.53	1933	4448.69	1933.01
4460.55	1933.01	4462.4	1933	4518.71	1933	4522.57	1932.97	4555.09	1932.23
4556.14	1932.2	4559.92	1932.14	4564.54	1932	4572.37	1931.59	4578.17	1931.33
4586.06	1931	4596.12	1930.67	4603.11	1930.43	4615.26	1930	4672.42	1930
4674.66	1930.01	4683.73	1930	4693.51	1930	4693.68	1930.01	4728.82	1930.56
4753.25	1930.95	4754.47	1931	4822.98	1931	4875.04	1931.28	4915.87	1931.49
4923.03	1931.52	4947.35	1931.66	4990.47	1931.92	4995.36	1931.94	4998.87	1931.94
5003.04	1932	5011.99	1932.11	5020.19	1932.2	5053.71	1932.09	5074.47	1932.01
5085.71	1932	5097.35	1932	5098.11	1932.01	5106.35	1932.01	5126.69	1932.27
5143.3	1932.44	5149.85	1932.38	5152.77	1932.41	5161.46	1932.36	5165.12	1932.39
5167.43	1932.38	5169.67	1932.35	5178.19	1932.1	5182.33	1932	5189.58	1932.01
5192.39	1932	5195.1	1931.83	5204.56	1931.33	5206.97	1931.21	5209.29	1931.17
5219.58	1931.4	5225.62	1931.51	5232.12	1931.43	5232.88	1931.43	5238.13	1931.37
5251.91	1931.35	5266.74	1931.31	5270.91	1931.27	5290.13	1931.15	5312.89	1931
5315.17	1931	5317.04	1930.98	5322.75	1930.96	5326.15	1930.96	5330.86	1930.98
5334.29	1930.98	5338.88	1930.81	5344.14	1930.68	5356.92	1930	5363.1	1930
5377.66	1930.86	5380.45	1930.98	5380.6	1931	5385.41	1931	5391.92	1931.65
5399.61	1932.38	5406.06	1933	5414.95	1933.11	5417.56	1933.13	5425.79	1933.04
5428.87	1933	5442.87	1933	5447.67	1933.02	5451.12	1933.1	5462.92	1933.3
5468.67	1933.47	5469.26	1933.51	5508.44	1933.37	5584.23	1933.05	5587.69	1933.03

5590.83	1933	5591.13	1932.98	5608.9	1932	5613.01	1931.99	5628.38	1931.97
5633.65	1931.96	5641.01	1931.87	5680.48	1931.37	5683.49	1931.37	5684.94	1931.34
5690.75	1931.33	5692.93	1931.34	5698.32	1931.21	5705.62	1931	5722.34	1931
5724.7	1931.04	5753.2	1931.48	5765.66	1931.67	5783.88	1932	5964.16	1932
5969.59	1932.1	5992.27	1932.48	6001.72	1932.62	6003.97	1932.66	6011.55	1932.74
6012.5	1932.76	6034.78	1932.95	6040.99	1933	6049.5	1933.31	6056.14	1933.48
6062.95	1933.68	6065.38	1933.68	6067.48	1933.64	6075.01	1933.36	6078.69	1933.35
6083.71	1933.38	6086.9	1933.54	6089.98	1933.76	6093.11	1934	6094.42	1934.21
6099.06	1935	6102.81	1935.72	6104.55	1936	6110.82	1936.29	6118.97	1936.61
6129.34	1936.97	6136.64	1937	6143.09	1940.52	6143.94	1941	6146.12	1941.59
6147.3	1942	6149.79	1942.56	6156.68	1944	6157.89	1944.28	6161.18	1945
6165.81	1946	6167.1	1946.36	6169.71	1947	6171.86	1947.64	6175.78	1948.72
6180.74	1950	6186.73	1950.9	6187.82	1951	6204.45	1951	6210.42	1950.67
6214.65	1950.39	6216.88	1950.42	6220.36	1950.63	6220.82	1950.82	6221.33	1950.94
6222	1951	6223.15	1951	6224.11	1950.93	6228.78	1950.55	6235.22	1950
6242.99	1949.12	6244.45	1949	6260.21	1948	6266.56	1947.58	6267.34	1947.54
6272.76	1947.17	6273.99	1947.13	6277.42	1947.13	6281.85	1947.17	6285.33	1947.22
6290.15	1947.3	6331.79	1948	6387.29	1948.28	6414.97	1948.43		

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
2256.49	.045	2256.49	.04	6414.97	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
2256.49	6414.97	50.63	50.63	50.63	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1935.07	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.17	Wt. n-Val.		0.040	
W.S. Elev (ft)	1934.89	Reach Len. (ft)	50.63	50.63	50.63
Crit W.S. (ft)		Flow Area (sq ft)		6704.88	
E.G. Slope (ft/ft)	0.002841	Area (sq ft)		6704.88	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3058.67	Top Width (ft)		3058.67	
Vel Total (ft/s)	3.34	Avg. Vel. (ft/s)		3.34	
Max Chl Dpth (ft)	4.89	Hydr. Depth (ft)		2.19	
Conv. Total (cfs)	420232.9	Conv. (cfs)		420232.9	
Length Wtd. (ft)	50.63	Wetted Per. (ft)		3059.46	
Min Ch El (ft)	1930.00	Shear (lb/sq ft)		0.39	
Alpha	1.00	Stream Power (lb/ft s)	6414.97	0.00	0.00
Frctn Loss (ft)	0.14	Cum Volume (acre-ft)		2247.84	
C & E Loss (ft)	0.00	Cum SA (acres)		1080.52	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -7036.34

INPUT
Description:
Station Elevation Data num= 404

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
2166.87	1935.17	2168.78	1935.17	2187.75	1935	2218.96	1935	2221.36	1934.99
2232.6	1934.75	2249.56	1934.4	2250.7	1934.36	2252.94	1934.32	2256.21	1934.23
2262.73	1934	2301.78	1934	2303.47	1933.76	2309.27	1933	2332.23	1933
2342.83	1932.61	2353.68	1932.41	2359.44	1932.32	2377.55	1932.31	2396.69	1932.29
2416.21	1932.18	2421.95	1932.17	2432.69	1932.13	2433.99	1932.13	2439.7	1932.18
2454.62	1932.33	2472.02	1932.58	2472.43	1932.58	2481.89	1932.7	2487.06	1932.77
2502.75	1933	2681.58	1933	2682.52	1933.03	2697.36	1933.44	2706.73	1933.67
2708.67	1933.7	2709.89	1933.68	2718.39	1934	2721.05	1934.07	2730.92	1934.29
2735.99	1934.29	2738.1	1934.26	2752.24	1934.25	2755.5	1934.24	2760.25	1934.21
2771.72	1934.18	2782.23	1934.03	2784.74	1934	2789.33	1934	2793.31	1934.21
2800.41	1934.64	2801.25	1934.7	2806.6	1935	2809.93	1935	2814.82	1934.68
2823.35	1934.02	2824.26	1934	2831.5	1933.71	2838.24	1933.43	2849	1933
2863.28	1933	2872.4	1933.43	2882.25	1934	2891.24	1934.37	2905.92	1935
2916.77	1935.05	2923.33	1935.04	2928.05	1935.04	2931.79	1935.06	2938.4	1935.05
2945.94	1935.09	2956.54	1935.11	2964.36	1935.1	2978.38	1935.06	2986.43	1935.03
2992.56	1935.02	2995.29	1935	3059.79	1935	3081.09	1934.22	3087.02	1934
3087.92	1934	3102.86	1934.49	3117.5	1935	3133.84	1936	3146.29	1936.59
3155.34	1937	3159.24	1937	3164.52	1936.83	3172.21	1936.44	3179.75	1936
3185.63	1935.65	3185.77	1935.65	3197.11	1935.22	3198.3	1935.17	3206.53	1935.09
3210.14	1935	3218.49	1934.99	3228.1	1934.99	3238.18	1935	3241.04	1935.01
3243.05	1935	3247.4	1935	3257.16	1935.08	3268.27	1935.18	3274.47	1935.2
3284.19	1935.32	3284.92	1935.31	3292.62	1935.38	3301.57	1935.41	3310.42	1935.41
3317.38	1935.38	3331.63	1935.41	3348.62	1935.45	3351.61	1935.48	3360.85	1935.47
3371.8	1935.43	3376.68	1935.32	3384.15	1935.14	3388.94	1935	3397.32	1934.78
3407.98	1934.54	3420.46	1934	3430.26	1933.99	3445.74	1933.99	3449.12	1934
3456.04	1934	3464.58	1934.36	3478.58	1934.82	3481.53	1934.89	3484.56	1935
3485.67	1935.02	3490.83	1935.05	3492.63	1935.07	3502.74	1935.11	3505.05	1935.1
3508.76	1935.11	3516.52	1935.16	3519.22	1935.16	3521.39	1935.2	3528.8	1935.22
3529.76	1935.23	3536.57	1935.36	3540.79	1935.49	3551.02	1935.49	3568.91	1935.1
3571.48	1935	3582.76	1934.29	3587.14	1934	3598.75	1933.35	3604.53	1933
3612.42	1932.44	3619.61	1932	3641.46	1932	3646.08	1932.31	3654.88	1932.74

3658.88	1932.96	3660.74	1933.08	3662.85	1933.31	3668.84	1933.99	3669.11	1934
3675.19	1934.45	3686.02	1935	3706.03	1935	3714.79	1934.18	3716.64	1934
3738.14	1934	3746.34	1934.02	3748.48	1934.02	3760.84	1934	3848.55	1934
3850.56	1934.05	3863.64	1934.19	3873.32	1934.3	3874.94	1934.31	3890.14	1934.49
3913.11	1934.99	3920	1934.99	3945.23	1934.33	3949.3	1934.25	3953.48	1934.18
3967.44	1934	3988.97	1934	3990.21	1934.02	3992.89	1934	4250.33	1934
4260.41	1933.7	4274.05	1933	4282.86	1932.45	4289.26	1932	4294.42	1931.56
4301.46	1931	4315.16	1931	4322.79	1931.25	4343.75	1931.97	4346.06	1932
4349.96	1932.15	4351.77	1932.17	4373.89	1932.86	4378.5	1933	4409.1	1933
4413.38	1933.29	4415.87	1933.47	4423.45	1934	4450.17	1934	4458.41	1933.65
4460.56	1933.57	4482.75	1933	4551.35	1933	4572.16	1932.22	4577.18	1932
4592.93	1931.04	4612.31	1930	4621.83	1929.99	4635.64	1929.99	4655.13	1930
4664.61	1930	4673.21	1929.96	4678.11	1929.95	4681.28	1929.93	4686.45	1929.93
4689.92	1929.92	4694.77	1929.94	4704.25	1929.97	4708.43	1930	4714.09	1930.02
4729.29	1930.17	4730.43	1930.19	4739.86	1930.28	4741.32	1930.3	4751.67	1930.38
4761.32	1930.41	4762.1	1930.43	4766.98	1930.41	4773.86	1930.36	4775.29	1930.37
4781.49	1930.3	4789.41	1930.2	4791.72	1930.15	4793.74	1930.15	4799.29	1930.04
4799.57	1930.05	4802.68	1930	4807.82	1930	4814.59	1930.17	4817.46	1930.27
4827.08	1930.58	4841.9	1931	4852.53	1931	4878.14	1931.14	4890.28	1931.19
4919.96	1931.37	4963.51	1931.52	4990.89	1931.6	4998.44	1931.7	5012.86	1931.93
5015.06	1931.97	5019.09	1932	5023.79	1932	5106.1	1932.03	5111.69	1932.03
5113.01	1932.02	5126.27	1932.02	5133.06	1932.01	5144.87	1932.01	5148.17	1932.04
5153.72	1932	5162.07	1931.95	5177.89	1931.9	5181.95	1931.89	5186.6	1931.85
5190.19	1931.77	5201.13	1931.54	5216.07	1931.39	5216.83	1931.36	5222.78	1931
5243.83	1931	5251.43	1931.14	5256.32	1931.1	5275.63	1931.06	5297.15	1931
5336.6	1931	5349.29	1930.87	5352.87	1930.89	5365.69	1930.48	5366.61	1930.46
5372.72	1930.38	5376.21	1930.47	5383.17	1930.77	5386.1	1931	5409.98	1931
5419.94	1932	5425.66	1932.58	5428.03	1932.71	5437.3	1933	5443.5	1933.01
5444.02	1933.02	5449.79	1933.02	5477.59	1933.95	5479.2	1934	5482.42	1934
5488.35	1933.95	5552.08	1933.43	5605.47	1933	5608.04	1933	5618.46	1932.49
5619.74	1932.44	5631.92	1932	5638.41	1931.99	5669.27	1931.57	5670.43	1931.55
5693.83	1931.28	5708.24	1931.11	5712	1931.08	5715.12	1931.08	5720.99	1931
5731.33	1931	5781.65	1931.67	5792.38	1931.81	5829.11	1932	5981.02	1932
6006.59	1932.66	6011.45	1932.77	6020.71	1932.99	6024.83	1933.02	6026.28	1933.02
6030.12	1933.26	6036.18	1933.62	6037.89	1933.71	6041.95	1934	6054.49	1934.98
6055.84	1935.06	6066.58	1935.61	6074.42	1936	6081.47	1936.63	6084.54	1937
6088.73	1937.47	6098.95	1938.46	6102.08	1938.72	6105.03	1939	6106.81	1939.15
6110.64	1939.42	6112.34	1939.51	6117.88	1939.6	6122.51	1939.5	6123.63	1939.6
6125.53	1939.85	6126.52	1940.29	6127.42	1941	6131.67	1942.68	6133.4	1943.47
6135.14	1944.42	6136.57	1945	6139.29	1945.41	6142.8	1945.25	6143.54	1945.2
6150.84	1945.35	6152.48	1945.25	6155.61	1944.78	6156.27	1944.71	6157.41	1944.74
6159.14	1945	6163.83	1945.96	6164.09	1946	6165.35	1946.01	6166.18	1945.92
6167.88	1945.66	6169.16	1945.57	6177.19	1945.24	6180.85	1945.06	6182.73	1945.02
6184.81	1945.16	6191.27	1945.66	6192.55	1946	6194.56	1946.65	6195.48	1947
6196.4	1947.28	6198.56	1948	6205.01	1950	6209.21	1950	6210.3	1949.78
6210.82	1949.81	6212.88	1949.7	6214.56	1949.66	6218.75	1949.83	6220.84	1949.99
6224.56	1950	6237.48	1950.14	6247.59	1950.07	6253.86	1950	6267.69	1949.4
6274.54	1949	6277.05	1948.99	6281.67	1948.68	6287.42	1948.47	6292.73	1948.31
6309.96	1948.01	6316.95	1948.02	6329.72	1948.02	6332.9	1948.03	6338.49	1948.03
6345.32	1948.04	6357.74	1948.04	6362.96	1948.05	6391.18	1948.06		

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
2166.87	.045	2166.87	.04	6391.18	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
2166.87	6391.18	61.98	61.98	61.98	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1934.92	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.17	Wt. n-Val.		0.040	
W.S. Elev (ft)	1934.75	Reach Len. (ft)	61.98	61.98	61.98
Crit W.S. (ft)		Flow Area (sq ft)		6800.23	
E.G. Slope (ft/ft)	0.002878	Area (sq ft)		6800.23	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3198.93	Top Width (ft)		3198.93	
Vel Total (ft/s)	3.29	Avg. Vel. (ft/s)		3.29	
Max Chl Dpth (ft)	4.83	Hydr. Depth (ft)		2.13	
Conv. Total (cfs)	417550.3	Conv. (cfs)		417550.3	
Length Wtd. (ft)	61.98	Wetted Per. (ft)		3199.99	
Min Ch El (ft)	1929.92	Shear (lb/sq ft)		0.38	
Alpha	1.00	Stream Power (lb/ft s)	6391.18	0.00	0.00
Frctn Loss (ft)	0.17	Cum Volume (acre-ft)		2239.99	
C & E Loss (ft)	0.01	Cum SA (acres)		1076.88	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -7098.32

INPUT
Description:
Station Elevation Data num= 472

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
1465.2	1935	1477.66	1934.93	1481.12	1934.95	1485	1934.94	1493.64	1934.66
1495.21	1934.65	1502.46	1934.45	1517.79	1934	1520.27	1933.89	1525.68	1933.69
1537.74	1933.22	1544.49	1933	1550.4	1932.97	1561.47	1932.9	1581.13	1932.8
1588.44	1932.76	1645.32	1933	1772	1933	1777.66	1933.05	1778.68	1933.05
1810.74	1933.35	1826.01	1933.48	1848.91	1933.59	1884.36	1933.75	1902.95	1933.98
1911.51	1933.99	1915.29	1934	2006.23	1934	2036.2	1934.13	2039.2	1934.16
2050.96	1934.14	2062.3	1934.11	2064.1	1934.09	2075.63	1934	2134.92	1934
2136.3	1933.99	2175.82	1933	2176.66	1933	2260.82	1933.73	2273.97	1933.85
2274.53	1933.85	2293.47	1933.99	2298.54	1933.99	2303.63	1933.98	2311.22	1934
2382.18	1934	2383.32	1933.98	2386.64	1933.89	2405.45	1933	2411.42	1932.43
2415.74	1932	2425.11	1931.72	2439.55	1931.32	2440.74	1931.31	2445.17	1931.2
2447.67	1931.17	2461.39	1931.15	2473.65	1931.15	2477.72	1931.14	2482.27	1931.12
2485.29	1931.2	2490.63	1931.4	2506.45	1932	2508.29	1932.06	2517.31	1932.4
2536.6	1933	2599.3	1932.25	2599.7	1932.24	2608.77	1932.23	2619.03	1932.28
2619.97	1932.23	2624.55	1932.09	2627.86	1932.02	2629.61	1932.06	2634.29	1932.2
2637.46	1932.28	2641.32	1932.39	2641.94	1932.39	2677.01	1933	2703.66	1933
2707.69	1932.96	2710.05	1933	2765.08	1933	2775.25	1933.18	2789.81	1933.48
2797.5	1933.65	2799.77	1933.69	2814.52	1934	2817.6	1934.02	2821.05	1934.14
2827.34	1934.29	2828.73	1934.3	2841.75	1934.26	2859.21	1934.07	2862.62	1934
2873.23	1933.26	2876.35	1933	2886.09	1933	2888.75	1933.01	2895.98	1933.39
2900.33	1933.58	2900.9	1933.57	2914.25	1934	2930.16	1934	2937.71	1934.26
2941.62	1934.06	2944.12	1934.07	2947.96	1934.06	2950.18	1934	2954.36	1933.98
2960.44	1934	2984.7	1934	2992.37	1933.97	2993.6	1933.96	2999.66	1933.99
3007.41	1933.99	3016.45	1933.95	3025.13	1933.73	3028.47	1933.83	3029.95	1933.83
3034.31	1933.59	3035.53	1933.55	3038.57	1933.36	3044.84	1933	3054.97	1933
3061.42	1933.45	3069.92	1934	3131.72	1934	3142.56	1934.56	3145.47	1934.7
3151.32	1935	3163.82	1935	3166.05	1934.98	3180.06	1934.98	3186.71	1934.87
3193.59	1934.7	3206.35	1934.29	3207.62	1934.24	3215	1934	3221.67	1933.67
3225.21	1933.48	3227.32	1933.38	3238.86	1933	3282.37	1933	3295.09	1933.29
3299.28	1933.41	3314.56	1934	3322.98	1934.39	3324.79	1934.48	3330.75	1934.64
3332.15	1934.63	3336.69	1934.63	3341.94	1934.58	3348.1	1934.42	3350.93	1934.34
3353.69	1934.29	3362.19	1934	3371.57	1933.52	3376.93	1933.24	3378.82	1933.15
3381.71	1933.04	3386.3	1933.18	3387.45	1933.24	3399.52	1933.83	3402.9	1934
3404.48	1934.01	3411.55	1934.69	3424.45	1935.94	3427.44	1936.21	3429.9	1936.4
3435.1	1936.83	3437.45	1937	3450.34	1938	3459.34	1938	3461.41	1937.65
3465.74	1937	3469.51	1936.41	3472.28	1936	3474.65	1935.62	3479.36	1935
3483.02	1934.65	3490.22	1934	3499.44	1933.21	3503.07	1933	3509.11	1933
3516.55	1933.48	3526.65	1934	3533.81	1934.27	3534.41	1934.27	3542.04	1934.52
3550.33	1934.89	3552.87	1934.89	3561.96	1935	3598.61	1935	3604.25	1934.75
3605.37	1934.74	3609.58	1934.58	3614.92	1934.4	3622.83	1934.27	3627.44	1934.23
3637.21	1934.01	3637.35	1934	3677	1934.67	3688.7	1934.86	3691.42	1934.87
3700.65	1935	3724.08	1935	3732.69	1934.61	3735.64	1934.55	3752.2	1934.45
3763.86	1934.39	3767.64	1934.43	3774.65	1934.48	3781.14	1934.48	3787.62	1934.47
3795.11	1934.42	3808.94	1934.23	3814.63	1934.13	3823.55	1934	3828.09	1933.96
3835.14	1933.73	3841.33	1933.63	3846.25	1933.59	3849.96	1933.53	3855.11	1933.51
3859.97	1933.5	3863.31	1933.55	3868.81	1933.61	3875.78	1933.83	3879.94	1933.98
3882.3	1934	3909.56	1934	3915.34	1933.77	3923.62	1933.61	3954.89	1933
3959.04	1933	3961.45	1933.05	3978.88	1933.31	3986.86	1933.47	3996.45	1933.63
3999.57	1933.7	4006.72	1933.8	4027	1933.93	4028.36	1933.93	4033.53	1934
4062.41	1934	4071.74	1934.72	4075.2	1935	4078.39	1935.23	4089.89	1936
4135.72	1936	4140.85	1935.61	4141.74	1935.59	4156.3	1935.04	4159.77	1935.05
4168.57	1935.01	4169.23	1935	4172.11	1934.7	4179.1	1934	4183.76	1933.66
4188.32	1933.58	4191.28	1933.49	4193.53	1933.44	4200.25	1933.18	4202.81	1933.05
4204.73	1933.06	4206.31	1933.03	4211.18	1933	4229.43	1933	4234.96	1933.11
4235.87	1933.14	4251.58	1933.49	4272.88	1933.98	4275.61	1934	4304.31	1934
4315.57	1933.66	4330.6	1933	4334.07	1932.96	4341.76	1932.65	4352.65	1932.26
4357.72	1932.09	4359.84	1932	4406.03	1932	4422.82	1932.61	4435.01	1933
4558.48	1933	4562.68	1932.99	4592.93	1932.99	4593.24	1932.98	4600.17	1932.98
4614	1932.42	4614.82	1932.42	4620.84	1932	4626.71	1931.44	4631.17	1931
4645.71	1930.06	4646.69	1930	4648.78	1930	4653.14	1929.98	4665.46	1929.96
4669.79	1929.97	4675.46	1930	4684.76	1930	4686.19	1929.97	4694.88	1929.7
4711.87	1929.2	4715.65	1929	4716.46	1929	4737.73	1929.84	4741.92	1930
4763.96	1930	4767.74	1930.11	4772.94	1930.21	4784.51	1930.29	4794.59	1930.31
4795.01	1930.3	4803.42	1930.23	4806.62	1930.18	4814.55	1930.14	4816.39	1930.11
4826.5	1930.14	4831.33	1930.16	4836.68	1930.2	4850.87	1930.28	4862.68	1930.34
4877.08	1930.59	4880.21	1930.67	4884.84	1930.8	4891	1931	4981.25	1931
5008.13	1931.1	5011.77	1931.11	5014.23	1931.15	5019.91	1931.26	5026.82	1931.25
5034.07	1931.22	5036.86	1931.23	5037.77	1931.26	5040.03	1931.28	5043.7	1931.4
5046.24	1931.43	5059.08	1932	5083.66	1932.01	5122.85	1932.01	5129.38	1932
5151.02	1932	5157.06	1931.98	5166.67	1931.98	5171.6	1931.97	5176.13	1931.92
5226.55	1931.44	5229.08	1931.42	5234.41	1931.34	5242.3	1931.23	5247.46	1931.2
5251.13	1931.19	5255.57	1931.12	5258.19	1931.09	5262.96	1931	5415.08	1931
5421.41	1930.98	5426.62	1930.97	5433.66	1930.97	5438.72	1930.96	5446.62	1930.99
5451.67	1930.99	5457.33	1931	5468.36	1931	5469.86	1930.99	5475.02	1930.99
5478.16	1931	5487.54	1932	5503.3	1932.88	5505.6	1933	5510.04	1933
5522.16	1933.12	5535.65	1933.25	5537.17	1933.24	5541.03	1933.28	5541.95	1933.26
5543.41	1933.28	5589.94	1933.13	5611.15	1933.05	5629.18	1933	5650.29	1933
5658.72	1932.98	5662.97	1932.99	5671.08	1932.99	5680.06	1932.74	5682.86	1932.71
5690.77	1932.5	5692.2	1932.47	5703.17	1932.14	5707.96	1932	5722.49	1931.81
5722.95	1931.81	5734.08	1931.66	5735.18	1931.66	5785.18	1931.03	5787.18	1931
5792.69	1931	5804.62	1931.16	5831.24	1931.51	5831.43	1931.51	5930.81	1931.99
5931.75	1932	6050.97	1932	6063.47	1932.59	6065.52	1932.69	6072.62	1933
6081.54	1933.49	6091.41	1934	6093.73	1934.16	6105.4	1935	6112.1	1935.75
6122.43	1937	6132.98	1938	6141.02	1938.75	6142.46	1938.87	6143.41	1938.88
6144.71	1939	6147.13	1939	6149.96	1940.16	6153.5	1941.59	6157.06	1943
6158.85	1943.69	6161.84	1944.87	6165.19	1946.23	6166.98	1947	6169.08	1948
6171.23	1949	6173.42	1950	6179	1950.01	6183.2	1950	6188.23	1950.31

6190.66	1950.45	6191.95	1950.54	6200.72	1951	6206.54	1951	6207.41	1950.89
6212.31	1950.57	6215.41	1950.41	6221.35	1950.31	6224.15	1950.28	6225.24	1950.23
6227.69	1950.03	6228.39	1949.99	6229.39	1950.02	6232.1	1951	6241.19	1951
6247.77	1950.48	6249.29	1950.49	6251.85	1950.45	6253.59	1950.46	6261.37	1951
6273.72	1951	6273.9	1950.99	6292.97	1950.25	6299.72	1950	6302.87	1949.7
6310.81	1949	6319.44	1948.99	6339.24	1948.64	6347.99	1948.54	6364.75	1948.31
6370.19	1948.23	6375.18	1948.17	6381.39	1948.11	6390.31	1948.03	6391.88	1948
6432.7	1948	6434.29	1948.01						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
1465.2	.045	1465.2	.04	6434.29	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
1465.2	6434.29	118.46	118.46	118.46	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1934.74	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.12	Wt. n-Val.		0.040	
W.S. Elev (ft)	1934.62	Reach Len. (ft)	118.46	118.46	118.46
Crit W.S. (ft)		Flow Area (sq ft)		7931.20	
E.G. Slope (ft/ft)	0.002512	Area (sq ft)		7931.20	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	4244.10	Top Width (ft)		4244.10	
Vel Total (ft/s)	2.82	Avg. Vel. (ft/s)		2.82	
Max Chl Dpth (ft)	5.62	Hydr. Depth (ft)		1.87	
Conv. Total (cfs)	446920.9	Conv. (cfs)		446920.9	
Length Wtd. (ft)	118.46	Wetted Per. (ft)		4245.25	
Min Ch El (ft)	1929.00	Shear (lb/sq ft)		0.29	
Alpha	1.00	Stream Power (lb/ft s)	6434.29	0.00	0.00
Frctn Loss (ft)	0.31	Cum Volume (acre-ft)		2229.51	
C & E Loss (ft)	0.00	Cum SA (acres)		1071.59	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -7216.78

INPUT
Description:
Station Elevation Data num= 470

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
1374.68	1935	1386.61	1935	1386.93	1934.99	1393.74	1934.99	1429.24	1934.74
1457.95	1934.59	1460.48	1934.51	1464.94	1934.32	1465.88	1934.32	1471.75	1934.25
1477.64	1934.22	1482.56	1934.18	1490.09	1934	1497.05	1933.78	1506.38	1933.36
1509.49	1933.23	1514.35	1933	1524.31	1932.81	1527.97	1932.81	1531.53	1932.79
1540.36	1932.69	1551.56	1932.57	1558.81	1932.51	1566.09	1932.46	1572.11	1932.43
1582.19	1932.42	1590.79	1932.4	1595.41	1932.37	1600.39	1932.35	1606.71	1932.31
1664.55	1932.55	1670.97	1932.61	1690.25	1932.77	1716.72	1933	1745.48	1933
1818.64	1933.84	1829.66	1933.95	1835.63	1933.97	1840.53	1934	1943.07	1934
1956.6	1933.98	1963.78	1933.98	1969.24	1933.97	1981.33	1933.98	1983.57	1934
2012.81	1934	2015.08	1933.97	2030.17	1933.8	2030.74	1933.79	2049.72	1933.56
2067.97	1933.35	2073.03	1933.32	2082.28	1933.29	2087.8	1933.3	2097.48	1933.22
2131.09	1933.21	2165.88	1933.19	2173.88	1933.13	2178.99	1933	2194.93	1933
2212.42	1933.15	2222.64	1933.22	2248.11	1933.43	2250.78	1933.45	2296.52	1933.95
2301.25	1934	2350.67	1934	2366.3	1933.65	2376.4	1933.42	2382.57	1933.29
2392.49	1933.07	2395.17	1933.04	2397.87	1932.91	2408.05	1932.36	2413.74	1932
2417.98	1931.44	2421.17	1931	2431.16	1931	2488.56	1931.76	2493.44	1931.84
2504.57	1932	2505.44	1932.02	2514.07	1932.41	2527.93	1933	2549.89	1933
2561.13	1932.97	2565.58	1932.95	2568.9	1932.95	2578.3	1932.97	2587.85	1933
2591.25	1932.95	2595.66	1932.83	2603.32	1932.6	2622.28	1932.12	2625.11	1932.09
2629.52	1932	2642.25	1931.77	2644.48	1931.74	2657.37	1931.37	2661.72	1931.27
2665.07	1931.17	2667.42	1931.17	2669.87	1931.2	2674.12	1931.29	2678.42	1931.4
2683.01	1931.54	2688.67	1931.68	2691	1931.72	2692.53	1931.77	2697.11	1931.84
2699.88	1932	2708.07	1932.3	2713.09	1932.45	2715.77	1932.48	2740.18	1932.88
2747.16	1933	2788.1	1933	2793.61	1933.1	2796.98	1933.14	2807.33	1933.33
2816.83	1933.35	2825.33	1933.35	2828.94	1933.32	2832.62	1933.39	2838.84	1933.54
2844.21	1933.56	2851.16	1933.4	2856.29	1933.41	2863.11	1933.54	2873.57	1933.96
2876.59	1934	2880.37	1934.24	2883.6	1934.46	2885.22	1934.59	2891.23	1934.74
2894.29	1934.79	2899.17	1934.64	2901.54	1934.58	2905.95	1934.44	2922.56	1934
2928.01	1933.9	2937.02	1933.71	2939.17	1933.68	2942.82	1933.6	2948.14	1933.5
2962.72	1933.15	2968.45	1933	2970.32	1932.99	2976.46	1932.99	2977.95	1932.98
2986.12	1932.97	3001.05	1932.96	3005.3	1932.95	3012.93	1932.97	3024.04	1932.97
3033.52	1932.99	3040.51	1932.99	3043.35	1932.92	3046.89	1932.93	3053.22	1932.92
3057.63	1932.89	3060.9	1932.85	3069.3	1933	3076.74	1932.99	3087.59	1933
3093.29	1933	3096.09	1933.13	3114.32	1934	3115.6	1934.01	3124.84	1934.04
3131.08	1934.03	3137.73	1934.01	3143.91	1934	3159.88	1933.55	3162.33	1933.49
3164.1	1933.47	3167.32	1933.4	3177.47	1933.07	3183.92	1933.04	3188.94	1933
3238.11	1933	3241.03	1933.01	3272.76	1933.01	3274.04	1933	3291.92	1933
3292.63	1933.06	3295.36	1933.04	3296.38	1933.08	3309.69	1933.84	3312.32	1934
3332.06	1934	3346.55	1933.98	3361.32	1933.75	3362.36	1933.77	3365.96	1933.67
3376.76	1933	3450.58	1933	3457.1	1933.37	3466.8	1934	3469.68	1934.02
3471.63	1934	3477.98	1934	3478.44	1934.02	3483.45	1934.11	3498.49	1934.29

3500	1934.33	3507.39	1934.38	3512.41	1934.53	3520.66	1934.7	3522.06	1934.75
3534.16	1935	3543.45	1935	3550.98	1934.54	3559.52	1934	3564.85	1933.73
3582.41	1933.02	3585.66	1933.01	3595.62	1933	3624.65	1933	3642.17	1934
3820.88	1934	3830.52	1933.83	3831.99	1933.83	3849.57	1933.68	3852.04	1933.63
3855.6	1933.53	3860.95	1933.29	3861.51	1933.3	3863.98	1933.22	3868.49	1933.21
3870.31	1933.25	3877.74	1933.36	3879.62	1933.42	3890.34	1933.01	3895.26	1933.02
3902.04	1933.02	3918.92	1933.01	3929.7	1933	3929.93	1933.01	3956.18	1933.57
3967.07	1933.8	3968.35	1933.8	3974.42	1933.93	3976.67	1933.99	3980.18	1933.99
3986.65	1933.78	3998.14	1933.65	4006.84	1933.39	4009.59	1933.34	4014.95	1933.14
4019.2	1933	4035.84	1933	4039.42	1933.21	4042.52	1933.36	4055.21	1934
4119.78	1934	4140.36	1933.82	4144.11	1933.68	4145.47	1933.67	4151.2	1933.45
4151.54	1933.45	4155.81	1933.29	4164.35	1933	4208.33	1933	4211.25	1933.01
4252.47	1933.01	4260.89	1933	4269.76	1933.23	4269.95	1933.25	4273.38	1933.14
4275.61	1933.15	4281.12	1933.25	4290.21	1933.07	4293.16	1933	4366.14	1933
4376.38	1932.73	4377.18	1932.7	4390.46	1932.33	4402.09	1932	4406.84	1932
4432.31	1931.79	4451.7	1931.64	4469.9	1931.81	4483.86	1931.98	4490.91	1932
4498.84	1932.2	4507.01	1932.39	4510.56	1932.38	4528.28	1932.35	4552.04	1932.17
4561.25	1932	4567	1931.84	4575.76	1931.65	4587.3	1931.33	4587.83	1931.31
4599.47	1931	4606.36	1930.55	4612.9	1930	4614.91	1929.97	4617.8	1929.87
4626.14	1929.63	4626.71	1929.63	4633.45	1929.51	4642.54	1929.41	4648.67	1929.35
4649.59	1929.35	4665.09	1929.46	4672.68	1929.56	4706.68	1929.99	4709.09	1930
4792.08	1930	4793.22	1930.02	4803.65	1930.13	4804.76	1930.15	4809.47	1930.08
4815.95	1930.14	4828.68	1930.2	4836.35	1930.2	4844.27	1930.18	4848.84	1930.21
4855.24	1930.11	4860.94	1930	4862.94	1930	4870.36	1929.38	4872.62	1929.2
4874.81	1929	4884.68	1929	4888.69	1929.3	4899.13	1930	4904.44	1930.35
4912.61	1931	4984.26	1931	4984.96	1930.97	5009.71	1930.9	5024.49	1930.97
5026.97	1930.97	5034.06	1931	5044.93	1931.66	5051.94	1932	5067.75	1932.52
5070.21	1932.58	5079.53	1932.85	5082.01	1932.9	5091.19	1932.92	5093.38	1932.88
5094.84	1932.88	5098.6	1932.82	5105.57	1932.69	5107.37	1932.67	5143.21	1932
5158.44	1931.85	5186.18	1931.61	5207.6	1931.45	5209.94	1931.44	5246.8	1931.09
5256.54	1931.04	5260.8	1931	5409.86	1931	5426.49	1930.98	5440.64	1931
5446.43	1931	5449.72	1930.99	5455.39	1930.99	5465	1930.97	5479.61	1930.99
5483.16	1931	5496.86	1931	5503.15	1930.38	5505.86	1930	5507.17	1930
5513.22	1931	5514.64	1931.17	5519.85	1932	5531.27	1932.4	5539.89	1932.69
5548.03	1933	5571.49	1933	5573.19	1933.03	5575.28	1933.03	5579.22	1933
5584.56	1933	5587.41	1932.99	5592.38	1933	5620.32	1933	5623.67	1932.96
5643.8	1932.79	5674.14	1932.48	5722.32	1932	5731.52	1931.9	5761.34	1931.56
5762.38	1931.55	5789.86	1931	5814.51	1931	5815.93	1931.01	5947.99	1931.67
5983.26	1931.84	6002.48	1932	6003.49	1932	6019.16	1933	6029.31	1933.56
6038.14	1934	6041.08	1934.14	6052.54	1934.66	6054.76	1934.78	6059.7	1935
6064.39	1935.33	6072.72	1936	6077.72	1936.38	6084.62	1937	6089.48	1937.52
6099.87	1938.75	6102.06	1939	6102.65	1939.04	6108.81	1939.21	6110.9	1939.17
6114.19	1939.08	6117.7	1939.04	6119.14	1939.53	6119.24	1939.5	6120.07	1940.06
6120.82	1940.33	6123.76	1941	6125.12	1941.2	6125.92	1941.26	6127.1	1941.24
6129.03	1941	6131.27	1940.68	6135.41	1940	6138.02	1940	6138.62	1941
6139.32	1941.41	6142.99	1942	6146.85	1942.85	6147.6	1943	6150.38	1943.27
6153.55	1944	6156.95	1944.47	6159.71	1944.93	6163.9	1945.45	6174.2	1946.87
6175.59	1947.05	6180.55	1947.74	6187.79	1948.84	6188.61	1948.91	6191.12	1949
6198.01	1949.61	6204.39	1949.96	6205.52	1949.98	6206.64	1949.89	6213.41	1949.28
6215.04	1949.26	6215.72	1949.29	6222.57	1949.48	6226.15	1949.73	6228.87	1950
6231.97	1950.14	6233.97	1950.26	6241.45	1950.96	6241.9	1950.97	6248.08	1950.97
6250.25	1950.98	6252.19	1950.88	6257.03	1950.54	6262.11	1950.26	6279.48	1949.39
6286.46	1949	6307.29	1948.44	6317.77	1948.19	6326.08	1948	6413.93	1948

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
1374.68	.045	1374.68	.04	6413.93	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
1374.68	6413.93	214.96	214.96	214.96	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1934.42	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.13	Wt. n-Val.		0.040	
W.S. Elev (ft)	1934.30	Reach Len. (ft)	214.96	214.96	214.96
Crit W.S. (ft)		Flow Area (sq ft)		7845.75	
E.G. Slope (ft/ft)	0.002808	Area (sq ft)		7845.75	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	4490.68	Top Width (ft)		4490.68	
Vel Total (ft/s)	2.86	Avg. Vel. (ft/s)		2.86	
Max Chl Dpth (ft)	5.30	Hydr. Depth (ft)		1.75	
Conv. Total (cfs)	422712.5	Conv. (cfs)		422712.5	
Length Wtd. (ft)	214.96	Wetted Per. (ft)		4491.81	
Min Ch El (ft)	1929.00	Shear (lb/sq ft)		0.31	
Alpha	1.00	Stream Power (lb/ft s)	6413.93	0.00	0.00
Frctn Loss (ft)	0.49	Cum Volume (acre-ft)		2208.06	
C & E Loss (ft)	0.01	Cum SA (acres)		1059.71	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -7431.74

INPUT
Description:
Station Elevation Data num= 385

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
1222.6	1934	1320.09	1933	1342.16	1933	1356.86	1932.75	1367.94	1932.57
1388.29	1932.27	1395.91	1932.17	1404.98	1932	1578.53	1932	1587.33	1931.36
1592.7	1931	1619.26	1931	1627.67	1931.26	1651.78	1932	1656.01	1932.04
1719.35	1932.61	1722.26	1932.63	1736.98	1932.77	1764.08	1933	1896.33	1933
1906.26	1932.77	1907.77	1932.77	1912.11	1932.74	1914.06	1932.74	1915.22	1932.72
1918.46	1932.72	1921.26	1932.67	1955.42	1932.28	1965.24	1932.19	1983.52	1932.22
2006.78	1932.24	2006.87	1932.25	2012.45	1932.29	2020.71	1932.36	2029	1932.37
2037.85	1932.48	2041.56	1932.49	2044.95	1932.52	2046.22	1932.52	2049.47	1932.55
2057.5	1932.6	2060.47	1932.63	2077.66	1932.74	2086.66	1932.81	2098.56	1932.87
2112.55	1932.95	2117.59	1933	2139.34	1933	2142.64	1932.99	2145.48	1933
2359.3	1933	2385.44	1932	2388.1	1931.71	2394.32	1931	2526.97	1931
2532.57	1930.99	2538.27	1930.99	2540.59	1931	2593.07	1931	2600.24	1930.97
2610.51	1930.92	2625.16	1931	2757.03	1931	2766.31	1931.09	2772.53	1931.14
2799.27	1931.39	2802.4	1931.43	2838.04	1931.84	2851.07	1932	2851.79	1932
2859.62	1932.45	2860.67	1932.44	2863.63	1932.61	2877.98	1932.73	2886.25	1932.78
2915.3	1932.69	2938.29	1932.61	2955.19	1932.67	2975.4	1932.76	2981.28	1932.79
2993.74	1933	3026.9	1933	3028.62	1933.02	3044.47	1933.71	3048.85	1933.89
3052.13	1934	3079.58	1934	3083.37	1933.99	3085.33	1933.97	3097.59	1933.87
3099.06	1933.82	3109.33	1933.94	3112.03	1933.96	3113.54	1933.9	3122.5	1933.28
3126.42	1933	3131	1932.83	3132.16	1932.8	3136.39	1932.64	3146.59	1932.37
3150.94	1932.27	3154.92	1932.23	3158.65	1932.21	3162.16	1932.21	3167.51	1932.27
3171.92	1932.34	3172.79	1932.34	3179.39	1932.48	3186.36	1932.42	3188.16	1932.44
3193.94	1932.42	3199.38	1932.41	3208.66	1932.56	3209.2	1932.56	3218.66	1932.67
3230.63	1932.73	3245.35	1932.82	3261.7	1933.01	3264.3	1933.01	3266.82	1932.99
3278.88	1932.74	3288.26	1932.61	3319.42	1932.61	3325.72	1932.67	3345.41	1932.98
3346.42	1933	3374.92	1933	3379.28	1933.31	3381.62	1933.52	3387.15	1934
3390.32	1934.02	3392.82	1934	3396.57	1933.89	3408.44	1933.5	3421.04	1933
3430.24	1933	3434.76	1933.24	3438.41	1933.41	3441.02	1933.46	3443.65	1933.43
3447.31	1933.34	3451.54	1933.11	3453.32	1932.99	3455.05	1932.84	3463.94	1932
3489.51	1931.44	3512.81	1931	3520.18	1931	3529.58	1931.2	3529.85	1931.2
3538.39	1931.39	3543.56	1931.38	3546.98	1931.43	3552.23	1931.54	3555.96	1931.63
3561.3	1931.77	3562.9	1931.8	3568.51	1932	3603.74	1932.69	3620.12	1933
3624.63	1933.01	3648.65	1933.03	3652.34	1933.02	3660.13	1933.02	3663.25	1933.01
3674.43	1933	3761.72	1933	3796.36	1932.6	3820.34	1932.36	3830.2	1932.44
3834.93	1932.49	3840.52	1932.56	3858.98	1932.78	3862.94	1932.84	3870.68	1933
3874.82	1933	3896.45	1934	3904.88	1934	3910.47	1934.01	3922.8	1934.01
3935.47	1934.38	3937.11	1934.41	3944.84	1934.46	3951.44	1934.6	3956.18	1934.62
3958.76	1934.68	3962.83	1934.74	3968.25	1935	3975.1	1935	3975.46	1934.98
3991.43	1934.47	3993.73	1934.44	3995.52	1934.37	3997.29	1934.34	4007.46	1934
4008.29	1933.99	4012.84	1933.98	4022.9	1933.98	4028.05	1933.99	4034.35	1934.02
4043.84	1934.05	4047.84	1934.04	4056.72	1934	4059.72	1933.81	4063.58	1933.54
4070.92	1933	4082.85	1932.01	4096.84	1931.3	4103.55	1931	4128.24	1931
4130.68	1931.15	4138.54	1931.5	4143.76	1931.76	4150.03	1932	4154.64	1932.11
4158.02	1932.21	4166.46	1932.48	4169.3	1932.58	4173.18	1932.7	4182.51	1933
4190.67	1933.01	4209.03	1933.01	4217.38	1933	4317.12	1933	4323.71	1933.46
4332.3	1934	4350.43	1934	4355.69	1933.92	4362.49	1933.78	4364.11	1933.74
4372.69	1933.62	4378.92	1933.54	4379.64	1933.54	4388.36	1933.2	4389.69	1933.19
4393.44	1933	4399.56	1932.48	4404.61	1932	4415.21	1931	4622.55	1931
4631.54	1930.47	4638.84	1930	4639.62	1930	4658.34	1929.71	4671.57	1929.5
4689.99	1929.33	4699.31	1929.25	4713.78	1929	4753.79	1929	4757.06	1929.06
4767.6	1929.22	4813.83	1929.96	4817.24	1929.95	4823.71	1929.98	4825.23	1930
4834.9	1930.01	4898.67	1930.78	4911.37	1930.93	4915.69	1931	4978.33	1931
4979.94	1930.96	5033.79	1930	5040.52	1930	5043.04	1930.06	5050.15	1930.25
5062.67	1930.73	5070.06	1931	5088.06	1931	5095.77	1931.01	5110.96	1931.01
5117.22	1931.08	5147.1	1931.48	5152.4	1931.49	5159.1	1931.49	5166.68	1931.52
5192.91	1932	5198.3	1932	5198.41	1931.99	5208.33	1931.58	5216.69	1931.24
5229.26	1931	5323.01	1931	5349.21	1930.13	5352.68	1930	5354.06	1930
5386.41	1930.79	5395.13	1931	5566	1931	5571.36	1930.89	5579.28	1931
5587.9	1931	5597.6	1931.43	5610.07	1932	5610.87	1932.02	5621.77	1932.08
5623.72	1932.1	5642.84	1932.23	5670.98	1932.43	5671.94	1932.44	5700.53	1932.65
5731.44	1932.84	5740.96	1932.89	5743.55	1932.91	5753.56	1932.86	5760.03	1932.74
5763.96	1932.65	5777.2	1932.29	5778.79	1932.26	5788.32	1932	5798.74	1931.7
5803.03	1931.6	5816.07	1931.25	5825	1931	6013.16	1931	6015	1931.05
6019.43	1931.23	6025.15	1931.5	6034.78	1932	6039.37	1932.36	6040.28	1932.41
6051.97	1933	6055.7	1933.18	6071.49	1934	6081.63	1934.71	6091.38	1935.58
6096	1936	6102.7	1936.65	6106.79	1937	6107.48	1937.01	6115.49	1937.68
6116.37	1937.73	6118.77	1938	6119.41	1938.01	6122.02	1938.17	6130.79	1939
6131.21	1939.08	6132.16	1939.41	6133.77	1939.89	6139.42	1941.5	6140.69	1941.84
6142.39	1942.49	6145	1943	6148.53	1943.67	6150.42	1944.4	6151.78	1944.65
6152.56	1944.71	6153.89	1944.76	6154.98	1944.71	6155.28	1944.66	6159.86	1944.61
6160.76	1944.55	6162.32	1944.38	6163.49	1944.22	6164.28	1944.17	6165.94	1944.24
6168.16	1944.54	6170.28	1944.89	6172.78	1945	6173.18	1945.04	6181.7	1946.02
6189.17	1947	6196.96	1948	6201.3	1948.6	6204.38	1949	6207.44	1949.27
6211.6	1949.65	6216.36	1950	6223.59	1950.55	6229.16	1951	6230.93	1951.02
6234.35	1951.15	6239.21	1951.26	6243.12	1951.26	6251.63	1951.37	6257.87	1951.33
6265.44	1951.23	6271.9	1951	6280.61	1950.34	6285.01	1950	6302.55	1949.32
6306.76	1949.15	6309.72	1949.04	6311.69	1948.94	6328.68	1948	6407.87	1948

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
1222.6	.045	1222.6	.04	6407.87	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
1222.6	6407.87	224.84	224.84	224.84	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1933.92	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.10	Wt. n-Val.		0.040	
W.S. Elev (ft)	1933.82	Reach Len. (ft)	224.84	224.84	224.84
Crit W.S. (ft)		Flow Area (sq ft)		8871.51	
E.G. Slope (ft/ft)	0.001897	Area (sq ft)		8871.51	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	4550.39	Top Width (ft)		4550.39	
Vel Total (ft/s)	2.52	Avg. Vel. (ft/s)		2.52	
Max Chl Dpth (ft)	4.82	Hydr. Depth (ft)		1.95	
Conv. Total (cfs)	514246.4	Conv. (cfs)		514246.4	
Length Wtd. (ft)	224.84	Wetted Per. (ft)		4551.34	
Min Ch El (ft)	1929.00	Shear (lb/sq ft)		0.23	
Alpha	1.00	Stream Power (lb/ft s)	6407.87	0.00	0.00
Frctn Loss (ft)	0.46	Cum Volume (acre-ft)		2166.81	
C & E Loss (ft)	0.00	Cum SA (acres)		1037.40	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -7656.58

INPUT
Description:
Station Elevation Data num= 415

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1939.43	1311.34	1933	1324.3	1933	1328.43	1932.93	1348.31	1932.61
1359.73	1932.46	1376.37	1932.09	1379.81	1932	1399.08	1931.84	1399.48	1931.84
1445.17	1931.67	1481.17	1931.66	1492.8	1931.75	1501.47	1931.76	1506.8	1931.78
1524.72	1931.82	1540.84	1931.75	1544.27	1931.68	1547.38	1931.6	1553.84	1931.41
1556.04	1931.39	1558.76	1931.33	1561.39	1931.3	1564.54	1931.23	1568.01	1931.19
1572.54	1931.11	1577.62	1931	1600.85	1931	1618.35	1931.32	1654.21	1931.99
1655.47	1932	1716.02	1932.6	1723.78	1932.68	1756.59	1933	1847.72	1933
1859.09	1932.75	1885.07	1932.23	1887.84	1932.18	1890.84	1932.15	1897.35	1932
1931.69	1931.38	1932.9	1931.35	1944.88	1931.13	1950.43	1931	1981.14	1931
1992.01	1931.35	2011.07	1932	2033.7	1932.3	2100.83	1932.95	2105.22	1932.99
2119.88	1932.99	2132.39	1932.98	2138.54	1932.97	2147.21	1932.99	2154.91	1932.99
2163.38	1932.98	2171.73	1932.99	2192.86	1932.99	2209.21	1932.82	2238.06	1932.74
2265.88	1932.79	2266.68	1932.8	2273.7	1932.72	2276.67	1932.7	2282.96	1932.7
2286.68	1932.67	2294.09	1932.59	2312.98	1932.59	2318.62	1932.48	2318.76	1932.49
2337.98	1932.14	2343.76	1932	2344.74	1931.93	2355.84	1931	2483.34	1931
2486.92	1930.91	2510.77	1930.88	2518.1	1930.84	2537.58	1930.94	2553.05	1930.99
2553.57	1931	2718.18	1931	2718.42	1931.01	2744.87	1931.7	2748.77	1931.77
2757.54	1932.04	2770.64	1932.45	2776.24	1932.6	2779.23	1932.66	2795.01	1932.76
2796.28	1932.78	2801.31	1932.78	2807.34	1932.67	2816.14	1932.63	2817.64	1932.6
2822.53	1932.42	2826.65	1932.39	2834.2	1932	2838.1	1931.83	2840.79	1931.76
2845.47	1931.7	2846.68	1931.67	2864.51	1931.89	2868.1	1931.95	2876.99	1931.98
2888.86	1932	2891.17	1932.05	2901.44	1932.08	2909.9	1932.26	2921.33	1932.57
2934.72	1932.54	2938.53	1932.39	2945.51	1932.09	2947.18	1932	2988.92	1932
2996.94	1932.22	2998.56	1932.24	3001.58	1932.32	3021.17	1932.73	3033.31	1932.99
3039.47	1933	3052.01	1933	3058.87	1932.6	3060.61	1932.54	3068.09	1932.21
3071.89	1932	3079.84	1931.67	3093.47	1931.17	3099.43	1931	3107.21	1931
3110.96	1931.05	3118.19	1931.17	3127.05	1931.01	3130.32	1931.02	3141.1	1931.02
3161.64	1931	3180.75	1930.95	3187.51	1930.95	3193.75	1930.67	3201.06	1930.59
3206.29	1930.62	3215.31	1930.78	3219.73	1930.97	3222	1930.98	3224.31	1931.03
3228.87	1931.21	3252.42	1932	3256.61	1932	3275.92	1931.53	3277.85	1931.51
3293.8	1931	3311.48	1931	3318.87	1931.49	3326.14	1932	3333.23	1932.32
3348.68	1933	3354.09	1933.03	3358.67	1933	3373.1	1932	3378.67	1931.6
3384.43	1931.02	3389.79	1931	3395.72	1930.6	3403.36	1930	3408.76	1930
3413.8	1930.32	3421.91	1931	3429.38	1932	3433.51	1932.06	3435.62	1932.06
3437.8	1932	3447.48	1931.89	3450.19	1931.81	3459.48	1931.73	3461.49	1931.66
3464.41	1931.61	3479.46	1931.11	3482.17	1931	3487.55	1931.01	3496.69	1931.01
3503.19	1931	3535.41	1931	3540.05	1931.06	3542.68	1931.11	3548.26	1931.19
3585.92	1931.97	3589.18	1932	3592.98	1932.01	3600.12	1932.01	3603.54	1932.02
3614.29	1932.16	3633.24	1932.33	3634.83	1932.33	3641.19	1932.11	3645.03	1932.1
3646.69	1932.11	3668.25	1932.37	3693.51	1932.4	3700	1932.41	3702.34	1932.4
3710.92	1932.43	3752.97	1932.67	3810.47	1933	3866.29	1933	3877.03	1933.6
3880.83	1933.67	3885.07	1933.83	3892.06	1934	3971.62	1934	3987.54	1933.99
4007.54	1933.99	4007.86	1934	4013.68	1934	4028.04	1934.77	4031.51	1935
4033.05	1935.14	4046.86	1936	4048.34	1936.15	4056.21	1937	4058.91	1937.28
4069.77	1938.49	4074.33	1938.99	4075.99	1939.14	4078.61	1939.33	4080.83	1939.45
4085.2	1939.61	4087.78	1939.63	4089.13	1939.6	4091.54	1939.45	4096.38	1939
4104.26	1938.28	4111.95	1937.72	4113.72	1937.56	4118.05	1936.9	4122.88	1936
4125.3	1935.56	4128.6	1935	4131.81	1934.43	4134.09	1933.98	4135.61	1933.61
4137.74	1933	4160.42	1932.49	4167.37	1932.4	4172.77	1932.29	4181.74	1932.01
4188.19	1932	4213.26	1932.95	4214	1933	4264.3	1933	4279.83	1932.33
4289.97	1932.38	4304.24	1932.47	4304.98	1932.48	4317.7	1932.77	4323.13	1932.99
4327.6	1933	4338.99	1934	4346.42	1934	4352.42	1933.81	4373.65	1933
4378.75	1932.69	4384.75	1932.31	4389.97	1932	4404.77	1931.16	4408.5	1930.9
4409.66	1930.87	4414.24	1930.62	4419.66	1930.54	4431.2	1930.19	4442.31	1930.52
4443.15	1930.6	4444.93	1930.56	4449.95	1931	4537.71	1931	4541.53	1930.92
4547.79	1930.86	4567.4	1930.73	4581.65	1930.63	4587.35	1930.64	4595.44	1930.54

4603.12	1930.27	4610.74	1930.01	4611.9	1930	4619.77	1930	4624.18	1929.82
4644.81	1929	4738.12	1929	4757.78	1928.99	4796.69	1929	4842.26	1929
4853.88	1929.28	4866.51	1929.69	4876.49	1930	5112.4	1930	5124.15	1930.01
5138.9	1930.03	5148.49	1930.03	5163.3	1930.01	5169.26	1930.01	5172.16	1930.08
5174.53	1930.08	5181.99	1930.16	5256.26	1931	5353.32	1931	5364.39	1930.8
5375.9	1930.64	5383.6	1930.54	5399.96	1930.26	5414.84	1930	5416.62	1930
5428.19	1930.24	5439	1930.4	5446.45	1930.49	5454.26	1930.63	5456.75	1930.63
5461.79	1930.71	5469.43	1930.79	5475.8	1931	5482.23	1930.99	5491.89	1930.99
5492.93	1931	5529.94	1931	5533.98	1930.88	5550.65	1930.93	5552.74	1930.94
5556.23	1930.92	5562.19	1930.91	5570.17	1930.93	5577.85	1930.96	5583.39	1930.97
5590.03	1930.92	5590.84	1931	5609.26	1932	5640.22	1932	5647.69	1932.09
5670.1	1932.32	5670.35	1932.32	5693.77	1932.01	5755.96	1932.01	5797.3	1932
5799.83	1931.92	5829.25	1931.02	5829.83	1931.01	5835.73	1931.01	5841.15	1931
5857.09	1930.48	5867.58	1930.13	5872.23	1930.02	5877.89	1930.02	5879.16	1930.05
5909.44	1931	6013.71	1931	6028.33	1931.67	6034.51	1932	6048.2	1932.91
6049.65	1933	6062.48	1933.85	6064.52	1934	6065.84	1934.03	6085.1	1935
6086.15	1935.53	6087.64	1936	6091.33	1937.63	6092.21	1938	6094	1938.84
6096.71	1940	6097.32	1940.29	6099.02	1941	6105.14	1943.5	6108.69	1945.02
6110.91	1946	6112.13	1946.03	6112.83	1946	6119.25	1944.33	6120.74	1944.01
6122.46	1943.88	6123.16	1943.89	6125.52	1944.05	6126.96	1944.08	6128.36	1943.97
6132	1943.56	6133.94	1943.46	6136.19	1943.52	6140.3	1944.01	6142.9	1945
6144.95	1945.61	6146.83	1946	6156.45	1946.57	6157.51	1946.67	6159.77	1947
6168.52	1948	6173.08	1948.51	6177.85	1949	6181.64	1949.59	6184.05	1950
6186.34	1950.02	6190.31	1950.14	6194.87	1950.25	6196.57	1950.34	6197.06	1950.33
6203.67	1950.63	6206.5	1950.71	6207.39	1950.71	6212.3	1950.64	6220.9	1950.5
6221.92	1950.49	6234.71	1950.2	6242.18	1950	6258.53	1949.51	6262.36	1949.38
6269.19	1949.13	6272.28	1949	6281.12	1948.75	6307.32	1948	6379.74	1948

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	6379.74	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	6379.74	152.82	152.82	152.82	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1933.46	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.11	Wt. n-Val.		0.040	
W.S. Elev (ft)	1933.35	Reach Len. (ft)	152.82	152.82	152.82
Crit W.S. (ft)		Flow Area (sq ft)		8455.44	
E.G. Slope (ft/ft)	0.002207	Area (sq ft)		8455.44	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	4519.20	Top Width (ft)		4519.20	
Vel Total (ft/s)	2.65	Avg. Vel. (ft/s)		2.65	
Max Chl Dpth (ft)	4.36	Hydr. Depth (ft)		1.87	
Conv. Total (cfs)	476854.4	Conv. (cfs)		476854.4	
Length Wtd. (ft)	152.82	Wetted Per. (ft)		4520.27	
Min Ch El (ft)	1928.99	Shear (lb/sq ft)		0.26	
Alpha	1.00	Stream Power (lb/ft s)	6379.74	0.00	0.00
Frctn Loss (ft)	0.40	Cum Volume (acre-ft)		2122.09	
C & E Loss (ft)	0.00	Cum SA (acres)		1014.00	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -7809.4

INPUT
Description:
Station Elevation Data num= 420

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1939.36	1327.94	1932.39	1333.85	1932.29	1336.98	1932.26	1350.57	1932
1365.66	1931.33	1370.64	1931.19	1372.81	1931.21	1379.95	1931.38	1382.12	1931.44
1402.08	1931.39	1425.47	1931.34	1432.34	1931.26	1442.25	1931.16	1447	1931.13
1454.21	1931.1	1459.75	1931.1	1461.62	1931.12	1474.55	1931.11	1474.69	1931.12
1487.19	1931.11	1487.3	1931.12	1497.33	1931.11	1502.61	1931.13	1528.95	1931.01
1529.88	1931	1588.87	1931	1591.08	1931.01	1618.1	1931.38	1664.81	1932
1665.4	1932	1707.72	1932.44	1713.1	1932.48	1725.76	1932.59	1768.03	1932.9
1781.04	1933	1843.03	1933	1858.38	1932.44	1860.35	1932.36	1870.83	1932
1886.61	1931.78	1889.77	1931.73	1906.12	1931.54	1941.46	1931	1943.07	1931.01
1985.61	1931.55	1997.8	1931.66	2004.95	1931.71	2023.62	1931.85	2041.59	1932
2042.01	1932	2076.48	1932.51	2105.34	1932.99	2120.73	1932.99	2130.59	1932.98
2151.13	1932.98	2176.46	1932.99	2176.56	1933	2185.64	1933	2204.89	1932.76
2268.49	1932	2268.62	1932	2294.54	1931.51	2298.25	1931.41	2315.1	1931
2444.14	1931	2457.93	1930.99	2463.76	1931	2470.18	1930.98	2476.53	1930.99
2477	1931	2488.53	1931	2505.2	1930.99	2522.69	1930.99	2524.82	1931
2606.55	1931	2610.87	1930.99	2639.1	1930.99	2649.78	1931	2669.19	1931
2669.26	1930.99	2676.1	1930.99	2678.08	1931	2743.69	1931	2749.48	1931.03
2761.09	1931.27	2763.92	1931.34	2765.2	1931.35	2777.12	1931.72	2783.59	1931.95
2789.64	1932	2805.12	1932.93	2806.84	1933	2831.08	1933	2844.23	1932.79
2849.38	1932.72	2854.54	1932.63	2858.69	1932.58	2870.46	1932.42	2879.38	1932.27
2885.56	1932.18	2890.92	1932	2900.3	1932	2903.38	1931.94	2907.02	1931.93
2911	1931.81	2914.02	1931.81	2921.54	1931.63	2932.75	1931.65	2942.41	1931.84

2950.23	1932	3024.6	1932	3026.15	1932.01	3029.32	1932.11	3035.58	1932
3040.09	1931.99	3046.76	1931.99	3047.95	1932	3050.81	1932.55	3053.45	1933
3058.65	1933.92	3059.34	1934.06	3064.75	1935	3081.46	1935	3084.38	1934.73
3092.53	1934	3096.7	1933.61	3103.55	1933	3115.36	1932.14	3116.82	1932
3124.86	1931.87	3133.21	1931.72	3178.15	1931.52	3184.63	1931.45	3190.96	1931.64
3199.04	1931.97	3204.02	1932.46	3213.9	1933.4	3220.47	1934	3234.94	1934
3236.79	1933.99	3241.8	1933.68	3248.05	1933.37	3253.82	1933	3259.83	1932.52
3265.86	1932	3269.76	1931.78	3275.93	1931.53	3286.3	1931.04	3290.17	1931
3334.09	1931	3339.96	1931.3	3346.97	1931.52	3351.17	1931.58	3352.5	1931.57
3360.97	1931.33	3366.14	1931.22	3370.99	1931	3431.85	1931	3440.05	1930.99
3448.36	1930.99	3455.43	1931	3474.74	1931	3478.29	1931.12	3493.08	1931.56
3497.98	1931.71	3505.63	1932	3520.07	1932.87	3522.28	1932.96	3524.43	1932.95
3530.63	1932.82	3533.69	1932.73	3538.45	1932.51	3547.42	1932	3552.5	1932
3576.84	1931.7	3578.35	1931.69	3591.91	1931.64	3606.52	1931.74	3618.27	1931.87
3624.44	1931.92	3626.91	1931.92	3633.79	1931.96	3641.53	1931.93	3644.69	1931.85
3680.82	1931	3691.38	1931	3692.74	1931.04	3710.44	1931.24	3715.5	1931.31
3724.51	1931.46	3750.93	1932	3762.86	1932	3769.26	1932.05	3875.18	1933
3893.53	1933	3900.8	1933.01	3910.31	1933.42	3912.71	1933.49	3920.71	1933.36
3921.91	1933.36	3929.32	1933.23	3933.16	1933.27	3935.18	1933.25	3940.49	1933.28
3944.47	1933.25	3954.08	1933.03	3954.56	1933	3960.1	1933	3965.67	1933.14
3974.54	1933.41	3974.88	1933.41	3990.09	1933.99	3995.26	1933.82	4010.96	1933.27
4017.76	1933	4070.16	1933	4074.62	1933.36	4077.68	1933.62	4081.84	1934
4086.43	1934.04	4090.67	1934	4091.24	1933.96	4102.21	1933	4116.08	1933
4121.03	1933.89	4122.16	1934.04	4125.82	1935	4129.31	1936	4133.61	1937
4137.3	1937.72	4137.94	1937.78	4144.86	1938.3	4145.92	1938.41	4149.66	1939
4156.22	1940.49	4158.82	1941	4163.83	1941	4168.36	1939	4172.6	1937
4178.78	1934	4183.01	1931.88	4185.05	1931	4187.59	1930.02	4187.72	1930
4192.36	1930	4210.19	1930.99	4212.39	1931.08	4233.57	1931.98	4248.48	1932
4263.65	1932.41	4274.65	1932.9	4279.07	1933	4284.23	1933.41	4291.18	1933.66
4291.98	1933.71	4298.55	1934	4343.09	1934	4346.81	1933.6	4350.19	1933.22
4352.4	1933	4355.18	1932.67	4360.47	1932	4366.62	1931.63	4378.32	1931
4393.11	1931	4422.58	1930.02	4423.29	1930	4447.56	1930	4459.06	1931
4462.15	1931.03	4470.95	1931.14	4483.17	1931.11	4490.27	1931.13	4493.71	1931.11
4497.33	1931.05	4503.13	1931.04	4507.5	1931	4511.3	1930.86	4540.59	1930
4549.61	1929.96	4554.38	1929.98	4564.6	1929.99	4571.93	1930.01	4576.42	1929.98
4638.24	1929.01	4647.59	1929	4787.06	1929	4798.81	1929.01	4804.9	1929.05
4808.07	1929.11	4815.53	1929.21	4817.31	1929.25	4831.55	1929.5	4840.27	1929.66
4857.91	1930	4980.99	1930	4985.02	1929.85	5008.33	1929.01	5008.74	1929
5046.71	1929	5067.31	1929.36	5076.32	1929.51	5084.12	1929.63	5102.14	1929.95
5104.71	1930	5112.05	1930.31	5123.19	1930.8	5127.63	1930.97	5128.76	1930.99
5135.27	1930.98	5146.29	1931	5189.84	1931	5191.73	1930.95	5210.12	1930.93
5212.87	1931	5405.23	1931	5413.62	1930.12	5423.82	1929	5438.48	1929
5442.5	1929.47	5447.89	1930	5456.94	1930.01	5466.23	1930	5480.9	1930
5487.61	1930.03	5507.68	1930.11	5534.49	1930.04	5535.84	1930	5545.19	1929.97
5552.59	1929.98	5557.07	1930	5573.51	1931	5576.07	1931.25	5583.11	1932
5594.58	1932.98	5594.88	1933	5621.57	1933	5634.5	1932.46	5639.28	1932.3
5640.8	1932.23	5648.8	1932	5669.18	1932	5730.57	1931.63	5760.13	1931.45
5766.65	1931.45	5773.04	1931.43	5792.13	1931.19	5806.88	1931	5814.89	1931
5828.61	1930.47	5841.43	1930.23	5852.18	1930	5982.34	1930	5999.15	1930.66
6008.23	1931	6025.13	1932	6040.19	1933	6043.2	1933.24	6048.9	1933.63
6053.88	1934	6059.1	1934.68	6061.98	1935	6066.05	1935.54	6067	1935.7
6068.02	1935.81	6069.02	1935.99	6072.05	1936.31	6072.94	1936.46	6075.49	1936.74
6078.26	1937.02	6080.04	1937.3	6080.98	1937.61	6082.2	1938.19	6084.88	1939
6088.47	1940	6094.6	1941.68	6099.82	1943.13	6102.86	1944	6106.95	1945
6121.5	1946	6125.85	1946.38	6131.51	1946.91	6132.6	1947	6140.34	1947.11
6143.63	1947.24	6152.07	1947.79	6155.5	1948	6158.93	1948	6160.9	1947.45
6162.79	1947	6165.28	1946.46	6167.14	1946	6168.86	1945.53	6169.23	1945.49
6171.51	1945.89	6172.73	1946	6177.53	1947	6181.2	1947.43	6186.22	1948
6189.69	1948.27	6199.49	1949	6211.08	1949.01	6211.43	1949.02	6220	1949.03
6229.86	1949.01	6238.78	1949	6273.63	1949	6283.1	1949.28	6287.87	1949.31
6292.39	1949.31	6296.72	1949.37	6303.79	1949.32	6305.89	1949.35	6317.62	1949.44
6328.69	1949.27	6331.84	1949.19	6333.61	1949.17	6338.21	1949.17	6351.28	1949.38

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	6351.28	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	6351.28	102.22	102.22	102.22	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1933.06	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.15	Wt. n-Val.		0.040	
W.S. Elev (ft)	1932.91	Reach Len. (ft)	102.22	102.22	102.22
Crit W.S. (ft)		Flow Area (sq ft)		7291.83	
E.G. Slope (ft/ft)	0.003157	Area (sq ft)		7291.83	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	4082.49	Top Width (ft)		4082.49	
Vel Total (ft/s)	3.07	Avg. Vel. (ft/s)		3.07	
Max Chl Dpth (ft)	3.91	Hydr. Depth (ft)		1.79	
Conv. Total (cfs)	398643.2	Conv. (cfs)		398643.2	
Length Wtd. (ft)	102.22	Wetted Per. (ft)		4084.29	
Min Ch El (ft)	1929.00	Shear (lb/sq ft)		0.35	
Alpha	1.00	Stream Power (lb/ft s)	6351.28	0.00	0.00
Frctn Loss (ft)	0.26	Cum Volume (acre-ft)		2094.47	
C & E Loss (ft)	0.01	Cum SA (acres)		998.91	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -7911.62

INPUT
Description:
Station Elevation Data num= 415

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1938.98	1293.68	1931	1299.75	1931	1321.9	1930.59	1353.42	1930.03
1354.85	1930	1373.93	1930	1380.2	1930.11	1427.85	1930.99	1428.51	1931
1463.78	1931	1465.81	1930.99	1472.85	1930.99	1499.96	1930.84	1510.5	1930.99
1528.59	1930.99	1530.91	1931	1541.03	1931	1546.84	1930.99	1556.8	1930.99
1589.14	1931	1598.47	1931.09	1636.97	1931.47	1653.87	1931.62	1668.44	1931.79
1687.06	1932	1687.77	1932	1707.72	1932.75	1711.35	1932.86	1719.13	1933
1727.25	1933	1820.59	1932.21	1827.39	1932	1831.53	1932	1834.56	1931.89
1838.66	1931.8	1861.23	1931.15	1867.04	1931	1972.9	1931	2013.51	1931.4
2081.83	1931.64	2113.75	1931.75	2130.51	1931.75	2137.71	1931.76	2148.52	1931.76
2159.73	1931.77	2176.11	1931.72	2207.68	1931.57	2219.27	1931.47	2236.43	1931.31
2267.68	1931	2271.25	1930.96	2273.72	1930.97	2276.54	1930.95	2285.96	1930.96
2287.87	1930.97	2290.07	1930.8	2298.54	1930.82	2300.03	1930.73	2304.17	1930
2316.09	1930	2335.62	1930.75	2340.45	1930.9	2345.62	1931	2352.16	1931
2360.12	1930.98	2371.41	1930.99	2374.72	1931	2432	1931	2465.35	1930
2527.87	1930	2538.96	1930.51	2549.48	1931	2557.43	1931	2560.64	1930.79
2574.91	1930.26	2577.78	1930.16	2584.86	1930.16	2595.25	1930	2604.25	1930
2635.17	1930.01	2673.18	1930.19	2675.31	1930.18	2680.2	1930.22	2689.89	1930.39
2696.69	1930.46	2697.86	1930.49	2705.61	1930.55	2723.38	1930.63	2737.65	1930.69
2739.89	1930.67	2749.09	1930.79	2756.75	1931	2811.35	1931	2815.6	1930.81
2828.39	1930	2835.86	1930	2842.78	1930.22	2848.09	1930.36	2855.19	1930.57
2868.58	1931	2960.53	1931	2966.15	1931.13	2978.96	1931.38	3001.64	1931.96
3021.44	1931.95	3039.32	1931.92	3042.31	1931.93	3058.26	1931.96	3079.66	1931.99
3081.69	1932	3086.22	1932.26	3101.87	1933	3150.12	1933	3158.47	1932.7
3178.68	1932	3186.63	1931.69	3187.85	1931.68	3194.21	1931.45	3198.73	1931.43
3210.04	1931.34	3217.61	1931.29	3227.42	1931.24	3236.81	1931.2	3248.47	1931.17
3263.49	1931	3370.12	1931	3397.03	1930.19	3403.94	1930	3445.41	1930
3452.74	1930.33	3462.24	1930.67	3468.21	1931	3560.75	1931	3568.88	1931.01
3575.57	1931.01	3579.41	1931	3584.78	1931.01	3653.36	1931.01	3660.63	1931
3682.87	1931.01	3690.79	1931.43	3692.56	1931.43	3694.78	1931.5	3700.9	1932
3725.39	1932	3727.89	1931.94	3758.8	1931	3774.78	1931	3781.56	1931.01
3789.19	1931	3800.44	1931	3802.84	1931.04	3808.08	1931.16	3817.63	1931.53
3829.28	1932	3832.02	1932.23	3836.53	1932.64	3840.92	1933	3911.54	1933
3922.81	1933.08	3929.38	1933.1	3932.42	1933.12	3945.02	1933	3947.19	1933
3978.73	1934	3979.15	1934	3992.47	1934.67	3999.38	1935	4011.84	1935.7
4017.26	1936.03	4025.89	1936.24	4031.67	1936.35	4041.8	1936.21	4049.31	1936
4057.18	1935.35	4060.85	1935	4062.64	1934.78	4069.46	1934	4074.74	1933.59
4076.26	1933.46	4082.28	1933	4115.65	1933	4127.23	1933.75	4134.24	1934.25
4145.3	1935	4150.88	1935	4160.21	1934	4163.3	1933.65	4169.62	1933
4176.47	1932.31	4179.86	1932	4181.74	1931.87	4199.03	1931	4200.05	1931
4214.51	1931.8	4217.94	1932	4219.05	1932.01	4238.36	1932.65	4243.97	1932.84
4250.36	1933	4254.36	1933	4273.57	1932.98	4279.26	1932.98	4296.29	1933
4312.55	1933	4316.65	1932.85	4319.64	1933	4322.7	1933.07	4324.28	1933.07
4328.77	1933	4335.44	1932.18	4337.68	1931.92	4345.89	1931	4349.9	1930.57
4350.35	1930.56	4354.78	1930.68	4356.6	1930.83	4364.29	1931	4366.74	1931.66
4368.36	1932	4371.45	1932.58	4375.06	1933.19	4377.45	1933.35	4379.18	1933.42
4381.48	1933.28	4385.29	1933	4391.24	1932.5	4391.99	1932.42	4397.23	1932
4401.96	1931.68	4404.67	1931.48	4410.46	1931	4415.8	1930.62	4419.83	1930.35
4424.68	1930	4446.89	1930	4447.22	1929.99	4458.92	1929.9	4463.52	1930
4469.28	1930.01	4475.86	1930.01	4480.33	1930.02	4484.56	1930.01	4499.43	1930.77
4502.3	1930.91	4507.17	1930.99	4510.99	1930.98	4512.72	1930.93	4540.51	1930.02
4543.05	1930.01	4550.18	1930.01	4557.39	1930	4565.21	1929.86	4610.05	1929.01
4612.48	1929	4876.96	1929	4889.18	1929.22	4920.08	1930	4955.4	1930
4967.7	1929.75	4968.36	1929.76	4975.53	1929.76	4982.26	1929.75	4986.11	1929.73
4991.9	1929.72	4994.31	1929.7	5015.34	1929.57	5031.53	1929.42	5044.39	1929.28
5058.65	1929.11	5066.5	1929.01	5068.09	1929	5110.37	1929	5110.95	1929.01
5151.61	1929.88	5157.43	1930	5163.21	1930.22	5174.46	1930.63	5176.25	1930.67
5181.62	1930.85	5189.36	1930.88	5191.65	1930.82	5199.29	1930.49	5204.27	1930.33
5209.67	1930	5221.01	1929.98	5231.3	1930	5234.92	1930	5236.43	1930.02
5238.93	1930	5243.9	1929.99	5248.32	1930	5258.08	1930.51	5272.68	1931
5294.87	1931.05	5304.67	1931.03	5307.35	1931.01	5313.51	1931.01	5321.85	1931.1
5328.31	1931.04	5330.58	1931	5344.34	1930.99	5348.03	1930.98	5358.93	1930.98
5361.54	1930.97	5379.61	1930.5	5386.88	1930.3	5395.07	1930	5396.81	1929.98
5441.39	1929	5500.1	1929	5505.28	1929.07	5506.57	1929	5517.87	1929
5521.19	1929.11	5528.47	1929.18	5557.48	1930	5559.49	1930.07	5573.44	1930.46
5588.83	1930.68	5594.01	1930.78	5601.36	1930.98	5601.6	1931	5658.17	1931.65
5677.48	1931.88	5684.38	1931.94	5688.77	1931.92	5689.88	1931.93	5694.83	1931.87
5729.18	1931.49	5753.93	1931.19	5754.39	1931.18	5769.14	1931	5826.54	1931
5832.96	1930.93	5836.31	1930.87	5839.05	1930.77	5845.3	1930.61	5853.05	1930.36
5857.22	1930.21	5861.88	1930	5875.15	1929.81	5881.19	1929.73	5906.9	1929.61
5925.71	1929.54	5938.03	1929.76	5950.47	1930	5970.23	1930	5973.82	1930.16
5993.31	1931	5995.11	1931.07	6001.08	1931.25	6005.79	1931.37	6014.71	1931.56
6027.01	1932.1	6030.2	1932.21	6033.98	1932.32	6040.83	1932.48	6049.97	1933
6055.79	1933.34	6058.33	1933.51	6064.12	1934	6067.58	1934.05	6071.04	1934
6072.63	1934	6075.73	1935	6081.78	1936.6	6088.11	1938.23	6091.01	1939
6093.98	1939.09	6096.41	1939.4	6098.77	1939.55	6100.87	1939.43	6101.92	1939.41

6102.57	1939.46	6106.66	1940	6109.15	1940.37	6115.04	1941	6116.5	1941.09
6122.52	1941	6127.36	1940.83	6128.43	1940.99	6129.78	1941	6129.92	1941.11
6132.84	1942	6135.62	1942.61	6137.75	1943.18	6140.61	1944.03	6141.96	1944.5
6144.07	1945	6149.75	1945.52	6153.17	1945.77	6163.16	1946.33	6169.51	1946.47
6173.73	1946.62	6177.61	1946.68	6180.42	1946.69	6188.42	1946.77	6190.06	1946.74
6194.18	1946.43	6196.04	1946.26	6198.35	1946.15	6202.65	1946.16	6205.51	1946.15
6212.48	1946	6220.03	1945.99	6221.05	1946	6225.06	1946.29	6234.33	1947
6236.81	1947.24	6245.1	1948	6274.95	1949	6276.86	1949	6291.83	1949.39

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	6291.83	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	6291.83	84.71	84.71	84.71	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1932.79	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.10	Wt. n-Val.		0.040	
W.S. Elev (ft)	1932.68	Reach Len. (ft)	84.71	84.71	84.71
Crit W.S. (ft)		Flow Area (sq ft)		8614.93	
E.G. Slope (ft/ft)	0.002035	Area (sq ft)		8614.93	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	4456.15	Top Width (ft)		4456.15	
Vel Total (ft/s)	2.60	Avg. Vel. (ft/s)		2.60	
Max Chl Dpth (ft)	3.68	Hydr. Depth (ft)		1.93	
Conv. Total (cfs)	496554.6	Conv. (cfs)		496554.6	
Length Wtd. (ft)	84.71	Wetted Per. (ft)		4457.40	
Min Ch El (ft)	1929.00	Shear (lb/sq ft)		0.25	
Alpha	1.00	Stream Power (lb/ft s)	6291.83	0.00	0.00
Frctn Loss (ft)	0.16	Cum Volume (acre-ft)		2075.81	
C & E Loss (ft)	0.00	Cum SA (acres)		988.89	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -7996.33

INPUT
Description:
Station Elevation Data num= 416

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1938.81	1297.11	1930.61	1315.77	1930.37	1318.09	1930.33	1325.61	1930.24
1330.8	1930.2	1334.99	1930	1400.67	1930	1405.8	1929.96	1411.32	1930
1421.87	1930.04	1423.49	1930.04	1428.34	1930.11	1446.73	1930.28	1447.7	1930.28
1466.08	1930.12	1479.04	1930	1491.12	1930	1495.79	1929.98	1502.01	1929.98
1505.68	1929.99	1521.84	1929.99	1526.3	1930	1546.25	1930.19	1546.73	1930.2
1567.48	1930.81	1573.19	1931	1609	1931	1645.6	1931.32	1666.99	1931.54
1710.97	1932.01	1727.95	1932.3	1729.08	1932.31	1737.59	1932.45	1746.43	1932.56
1748.48	1932.56	1762.06	1932.61	1775.14	1932.6	1778.96	1932.55	1783.96	1932.47
1785.01	1932.47	1799.43	1932.22	1804.27	1932.13	1809.61	1932	1824.12	1931.71
1829.67	1931.62	1831.7	1931.6	1853.89	1931.24	1867.39	1931.01	1873.88	1931
1923.59	1931	1935.51	1930.6	1940.05	1930.72	1944.2	1930.95	1945.87	1931
1949.27	1931.02	1974.03	1931.2	1984.72	1931.29	2012.92	1931	2013.34	1931.01
2051.64	1931.14	2122.84	1931.38	2137.36	1931.38	2141.06	1931.39	2153.27	1931.39
2161.4	1931.4	2203.84	1931.27	2259.04	1931.01	2261.94	1931	2271.07	1931
2272.77	1930.87	2284.73	1930	2320.92	1930	2335.75	1930.73	2341.39	1931
2375.97	1931	2379.62	1930.75	2380.78	1930.73	2385.26	1930.45	2390.19	1930.26
2404.89	1930.21	2419.73	1930.52	2443.82	1931	2446.02	1931	2451.47	1930.52
2452.14	1930.48	2458.23	1930	2536.32	1930	2550.88	1930.44	2568.45	1930.98
2572.92	1931	2591.92	1930.26	2592.34	1930.26	2622.32	1930.01	2624.5	1930
2640.54	1930	2646.02	1930.19	2646.65	1930.15	2648.99	1930.16	2649.75	1930.19
2654.42	1930.01	2662.37	1930.03	2677.08	1930	2681.92	1930.01	2723.96	1930.6
2737.86	1930.79	2746.18	1930.77	2755.85	1930.76	2764.7	1930.99	2765.14	1930.99
2789.05	1930.19	2792.83	1930.11	2796.09	1930.07	2798.44	1930	2803.09	1930
2814.63	1930.2	2822.77	1930.35	2827.69	1930.41	2855.95	1930.82	2861.45	1930.88
2871.43	1930.91	2875.47	1931	2938.92	1931	2942.55	1931.13	2952.52	1931.64
2958.48	1931.92	2968.78	1932.59	2974.91	1933	3017.33	1933	3032.9	1932.4
3044.37	1932	3051.06	1931.85	3052.01	1931.81	3062.92	1931.53	3074.37	1931
3083.52	1931	3086.57	1931.14	3091.36	1931.38	3104.62	1931.96	3106.7	1932
3121.33	1932.74	3125.05	1932.85	3128.55	1932.93	3129.69	1932.94	3133.44	1932.75
3138.55	1932.45	3147.54	1932	3154.81	1931.77	3162.43	1931.61	3183.56	1931.03
3186.83	1931	3188.88	1930.94	3193.36	1930.92	3213.5	1930.17	3218.37	1930.01
3219.56	1930	3240.12	1930	3248.24	1930.39	3265.66	1931	3270.98	1931.01
3273.21	1931.06	3298.9	1931.59	3311.79	1931.63	3319.15	1931.44	3335.7	1931
3337.96	1931	3347.82	1930.25	3351.56	1930	3430.04	1930	3432.14	1930.11
3446.48	1931	3689.76	1931	3709.14	1931.53	3725.36	1932	3753.34	1932
3777.18	1931.98	3783.32	1931.98	3808.09	1932	3829.39	1932.96	3830.12	1933
3841.98	1933.01	3852.44	1933	3859.46	1932.98	3863.61	1932.96	3872.82	1933
3873.69	1933.01	3881.16	1933.25	3891.48	1933.54	3904.38	1934	3913.34	1934.29
3923.31	1934.56	3928.28	1934.66	3934.43	1934.72	3939.81	1934.7	3940.49	1934.73
3942.79	1934.73	3950.03	1934.36	3951.61	1934.3	3957.35	1934	3970.39	1933.95
3986.04	1934.05	4003.77	1934.79	4007.62	1935	4024.79	1935	4044.56	1934

4058.13	1933.1	4061.08	1933	4114.69	1933	4130.94	1932.8	4132.89	1932.8
4137.39	1932.88	4139.12	1932.87	4140.92	1932.9	4144.52	1932.77	4150.64	1932.59
4156.33	1932.35	4165.43	1932.17	4167.48	1932.14	4171.19	1932	4179.32	1931.44
4186.53	1931	4190.6	1931	4193.19	1931.11	4198.19	1931.27	4202.72	1931.38
4211.95	1931.5	4222.79	1931.86	4224.77	1931.94	4228.74	1932	4232.12	1932.45
4234.45	1933	4238.19	1933.74	4239.63	1934	4242.37	1934.43	4243.87	1934.6
4245.59	1934.7	4246.99	1934.67	4251.51	1934.37	4255.84	1934	4259.82	1933.58
4265.72	1933	4307.42	1933	4310.06	1932.98	4325.54	1932.65	4327.23	1932.6
4338.37	1932.38	4351.98	1931.8	4360.65	1931.55	4365.49	1931.45	4374.17	1931.21
4381.48	1931	4385.35	1931	4387.98	1931.13	4390.5	1931	4403.15	1930.7
4403.84	1930.67	4411.38	1930.55	4420.75	1930.26	4425.25	1930	4428.47	1930
4433.87	1929.7	4447.55	1929	4474.9	1929	4476.32	1929.03	4523.58	1929.94
4525.54	1930	4526.58	1930	4545.02	1929.6	4559.85	1929.36	4566.8	1929.28
4573.32	1929.19	4574.96	1929.18	4583.69	1929	4590.9	1929	4608.51	1928.84
4676.68	1928.29	4692.98	1928.17	4698.53	1928.17	4701.58	1928.18	4711.65	1928.19
4721.58	1928.32	4768.64	1928.99	4787.27	1928.99	4787.44	1929	4828.27	1929
4873.97	1929.94	4878.34	1930.01	4884.37	1930.05	4891.37	1930	4897.88	1929.44
4902.65	1929	4912.81	1929	4916.17	1929.41	4921.17	1930	4923.98	1930.32
4929.74	1931	4940.47	1931	4945.96	1930.36	4948.62	1930	4956.67	1929.1
4957.9	1929	5012.18	1929	5021.42	1929.01	5030.17	1929	5034.24	1929.01
5046.81	1929.01	5053.81	1929.02	5054.77	1929.01	5065.98	1929.19	5076.54	1929.53
5083.72	1929.73	5091.82	1929.99	5093.97	1929.99	5095.49	1930.05	5098.45	1930.23
5111.24	1930.72	5115.17	1930.76	5117.4	1930.74	5123.64	1930.53	5126.64	1930.46
5129.19	1930.34	5132.64	1930.22	5142.02	1930	5151.46	1930	5187.14	1929.24
5199.5	1929	5214.73	1929	5220.58	1929.11	5227.89	1929.29	5231.81	1929.41
5247.41	1929.99	5257.54	1930	5269.78	1930	5285.15	1930.02	5287.59	1930.01
5305.57	1930	5324.26	1930	5329.03	1930.24	5330.15	1930.31	5347.19	1931
5395.01	1931	5417.56	1930.24	5425.44	1930	5435.12	1929.52	5440.77	1929.27
5446.54	1929	5483.47	1929	5488.78	1929.15	5489.97	1929.15	5492.73	1929.23
5523.13	1929.71	5541.08	1930	5579.63	1930	5583.27	1930.1	5609.39	1930.96
5610.49	1931	5751.55	1931	5773.5	1930.74	5781.04	1930.66	5786.76	1930.58
5797.33	1930.41	5818.47	1930	5838.16	1929.96	5847.13	1929.95	5856.75	1929.95
5899.71	1929.58	5903.44	1929.58	5914.46	1929.43	5930.57	1929.1	5935.13	1929
5971.23	1929	5976.89	1929.2	5992.71	1930	6004.15	1931	6014.03	1932.04
6020.77	1933	6026.06	1933.79	6027.59	1934	6033.3	1934.35	6043.55	1935.33
6043.59	1936	6045.27	1936.71	6046.24	1937	6047.38	1937.21	6059.26	1939.69
6060.7	1940	6065.58	1941	6068.67	1941.23	6074.07	1941.53	6081.92	1942
6087.6	1943	6092.97	1944.03	6100.41	1945	6102.95	1945.21	6110.76	1946
6117.65	1946.01	6137.63	1946.01	6145.85	1946.18	6149.73	1946.15	6150.28	1946.16
6163.11	1946.01	6164.99	1945.98	6168.83	1945.97	6171.64	1945.94	6175.67	1946
6182.73	1946.33	6185.74	1946.44	6194.44	1946.61	6213.4	1947	6214.35	1947.05
6224.48	1948	6225.64	1948.04	6228.65	1948.24	6232.4	1948.44	6237.51	1948.86
6239.16	1948.87								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	6239.16	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	6239.16	119.56	119.56	119.56	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1932.62	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.10	Wt. n-Val.		0.040	
W.S. Elev (ft)	1932.52	Reach Len. (ft)	119.56	119.56	119.56
Crit W.S. (ft)		Flow Area (sq ft)		8900.71	
E.G. Slope (ft/ft)	0.001834	Area (sq ft)		8900.71	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	4472.60	Top Width (ft)		4472.60	
Vel Total (ft/s)	2.52	Avg. Vel. (ft/s)		2.52	
Max Chl Dpth (ft)	4.35	Hydr. Depth (ft)		1.99	
Conv. Total (cfs)	523015.9	Conv. (cfs)		523015.9	
Length Wtd. (ft)	119.56	Wetted Per. (ft)		4473.96	
Min Ch El (ft)	1928.17	Shear (lb/sq ft)		0.23	
Alpha	1.00	Stream Power (lb/ft s)	6239.16	0.00	0.00
Frctn Loss (ft)	0.22	Cum Volume (acre-ft)		2058.78	
C & E Loss (ft)	0.00	Cum SA (acres)		980.21	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -8115.89

INPUT
Description:
Station Elevation Data num= 405

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1938.43	1289.44	1930	1555.63	1930	1569.99	1930.33	1575.67	1930.44
1584.46	1930.62	1602.47	1931	1610.45	1931	1613.16	1931.01	1644.57	1931.21
1686.53	1931.48	1689.96	1931.49	1692.32	1931.51	1733.55	1931.52	1773.97	1931.52
1776.2	1931.5	1790.67	1931.35	1819.4	1931	1825.77	1930.99	1837.03	1931.01
1850.08	1931.01	1853.19	1931	1861.03	1930.73	1870.81	1930.43	1874.69	1930.39
1879.27	1930.38	1881.6	1930.42	1900.54	1930.53	1903.55	1930.59	1909.09	1930.68

1922.1	1930.97	1923.74	1931	1996.25	1931	2045.07	1931.55	2048.65	1931.6
2051.22	1931.65	2063.98	1931.8	2065.32	1931.81	2072.72	1931.7	2074.16	1931.63
2076.67	1931.62	2077.56	1931.65	2106.91	1931.01	2107.29	1931	2261.87	1931
2264.62	1930.9	2282.16	1930	2288.15	1930	2297.89	1929.99	2308.69	1930
2328.23	1930	2343.74	1930.41	2350.41	1930.58	2358.43	1930.66	2363.58	1930.75
2365.88	1930.77	2375.55	1930.83	2381.14	1930.87	2383.43	1930.86	2390.89	1930.78
2397.16	1930.67	2398.64	1930.66	2407.07	1930.55	2408.08	1930.53	2431.48	1930.21
2432.48	1930.2	2445.09	1930.01	2447.65	1930	2583.26	1930	2621.99	1930.73
2629.09	1930.86	2638.98	1931	2647.82	1931	2649.3	1930.98	2650.17	1931
2659.04	1930.97	2660.47	1930.98	2666.77	1930.96	2670.29	1930.96	2678.61	1930.63
2681.28	1930.58	2707.32	1930	2708.38	1930	2732.12	1930.55	2746.03	1930.83
2753.82	1931	2757.46	1930.99	2759.17	1930.97	2764.19	1930.94	2777.67	1930.93
2778.36	1930.91	2781.96	1930.94	2785.91	1931	2789.98	1931	2801.35	1930.57
2806.43	1930.4	2808.59	1930.41	2810.29	1930.39	2813.12	1930.39	2828.93	1930.37
2830.63	1930.32	2844.39	1930	2866.44	1930	2871.54	1930.01	2877.23	1930.01
2883.13	1930.13	2887.79	1930.19	2892.83	1930.27	2911.75	1931	2950.86	1931
2975.49	1931.63	2982.61	1931.8	2995.17	1931.86	3007.66	1931.98	3011.43	1932
3023.1	1932.42	3031.95	1932.61	3035.41	1932.73	3039.35	1932.83	3045.41	1932.96
3050.28	1933	3063.02	1933	3065.23	1932.91	3086.76	1932	3106.93	1931
3112.31	1931	3124.59	1931.72	3129.45	1932	3136.02	1932.02	3138.48	1932.02
3145.21	1932	3150.5	1931.88	3156.54	1931.73	3161.07	1931.65	3162.55	1931.67
3173.9	1931.31	3182.87	1931.01	3189.74	1931.01	3200.84	1931	3203.4	1930.91
3222.9	1930.3	3230.08	1930	3241.49	1930	3251.19	1930.53	3251.95	1930.58
3256.93	1930.85	3260.13	1931	3308.29	1931	3314.95	1931.26	3333.16	1931.83
3335.99	1931.88	3340.43	1931.73	3343.64	1931.61	3353.67	1931	3364.86	1930.54
3370.52	1930.35	3382.67	1930	3421.05	1930	3441.99	1929.99	3448.34	1929.99
3453.45	1930	3487.28	1930	3495.73	1930.2	3505.53	1930.37	3510.87	1930.48
3534.03	1931	3614.88	1931	3617.61	1930.99	3628.52	1930.98	3642.62	1930.98
3651.3	1931	3653.43	1931	3654.16	1931.03	3662.35	1931.11	3718.78	1931.36
3753.21	1931.46	3756.44	1931.42	3762.33	1931.46	3768.88	1931.37	3775.85	1931.25
3778.79	1931.19	3785.64	1931	3797.87	1931	3802.19	1931.09	3812.89	1931.21
3829.21	1931.78	3834.46	1932	3835.07	1932	3839.82	1932.2	3855.56	1932.93
3858.53	1932.94	3863.76	1932.94	3868.52	1932.98	3873.45	1933	3877.23	1933.28
3878.27	1933.37	3886.72	1934	3905.95	1934	3919.99	1933.97	3925.77	1934
3928.46	1934.07	3934.85	1934.1	3950.25	1934.75	3950.7	1934.76	3953.98	1935
3972.57	1935	3978.46	1934.63	3979.99	1934.52	3985.61	1934	3987.84	1933.76
3988.14	1933.75	3991.83	1933.34	4000.46	1933.34	4004.69	1933.28	4007.82	1933.25
4008.98	1933.26	4015.06	1933.27	4022.67	1933.37	4025.59	1933.43	4028.56	1933.46
4039.99	1933.99	4043.81	1933.98	4048.91	1933.98	4053.28	1933.99	4067.52	1933.99
4074.3	1934	4083.08	1933.06	4083.91	1933.04	4085.1	1933.07	4092.12	1933.38
4093.43	1933.38	4095.04	1933.42	4097.56	1933.33	4100.61	1933.14	4102.46	1933
4104.81	1932.78	4107.22	1932.53	4113.87	1932	4115.22	1931.98	4118.63	1931.89
4120.73	1931.88	4137.54	1931.61	4147.34	1931.47	4162.41	1931.35	4164.72	1931.34
4177.46	1931.08	4180.7	1931.01	4190.78	1931	4202.01	1931	4208.18	1931.54
4223.81	1933	4234.62	1933.71	4235.43	1933.77	4238.53	1933.92	4247.58	1934.4
4259.33	1935	4284.6	1935	4287.82	1934.76	4293.3	1934.37	4298.08	1934
4301.51	1933.79	4317.62	1933	4367.29	1933	4376.16	1932.81	4381.96	1932.47
4387.59	1932.29	4389.45	1932.3	4392.07	1932.28	4396.09	1932.21	4401.12	1932.1
4402.64	1932.05	4405.53	1932	4413.46	1931.8	4426.4	1931.33	4434.22	1931
4440.4	1930.6	4448.71	1930	4458.1	1929.29	4464.64	1929.01	4470.24	1929
4480.03	1928.99	4486.8	1929	4511.79	1929	4518.2	1929.01	4533.24	1929.01
4540.3	1929	4555.93	1929	4570.14	1928.97	4581.05	1928.94	4584.34	1928.94
4636.22	1928.66	4637.25	1928.66	4650.07	1928.59	4658.38	1928.56	4658.73	1928.55
4684.68	1928.36	4734.05	1928	4734.33	1928	4747.37	1928.28	4775.13	1928.89
4779.15	1929	4810.08	1929	4836.09	1929.02	4851.73	1929.01	4879.92	1929.01
4896.31	1929.02	4901.68	1929.02	4902.81	1929.03	4918.56	1929.02	4919.24	1929.01
4936.58	1929.01	4947.68	1929	4966.48	1929	4994.34	1929.7	5006.56	1930
5010.35	1930	5011.87	1929.95	5041.99	1929	5295.14	1929	5296.04	1929.02
5300.36	1929.06	5322.58	1929.33	5378.72	1930	5378.98	1930	5407.75	1931
5413.47	1931	5418.18	1930.84	5421	1930.79	5424.54	1930.68	5428.61	1930.53
5433.95	1930.43	5437.72	1930.33	5443.69	1930.14	5447.68	1930	5459.46	1929.64
5476.89	1929	5521.04	1929	5523.79	1929.01	5532.63	1929.01	5577.03	1929.47
5584	1929.55	5612.36	1929.81	5631.81	1930	5636.36	1930	5637.02	1930.1
5643.9	1931	5675.04	1931	5697.71	1930.23	5699.44	1930.18	5707.3	1930
5722.78	1930	5724.54	1930.06	5761.87	1930.99	5768.13	1930.99	5777.38	1930.71
5790.92	1930.31	5791.62	1930.3	5803.96	1930.01	5809.28	1930.01	5812.3	1930
5818.64	1930	5840.6	1929.52	5864.27	1929	5895.04	1929	5895.89	1929.01
5905.7	1929.01	5911.33	1929.03	5917.09	1929.04	5922.53	1929.03	5932.67	1929.02
5934.56	1929.01	5939.66	1929.05	5943.93	1929	5950.35	1929	5952.36	1929.15
5954	1929.3	5960.52	1929.97	5961.51	1930	5965.94	1930.44	5969.77	1930.76
5973.29	1931	5975.09	1931.17	5984.13	1932	5985.81	1932.2	5991	1932.76
5992.71	1933	5993.88	1933.19	5998.35	1934	6003.81	1934.97	6004.13	1935.04
6006.67	1936	6015.09	1937	6019.57	1937.56	6026.59	1939	6031.66	1940
6037.15	1941	6040.23	1941.46	6050.39	1942.8	6059.69	1944	6064.48	1944.66
6066.81	1945	6067.06	1945	6075.04	1945.98	6083.9	1947	6134.62	1947

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	6134.62	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	6134.62	102.33	102.33	102.33	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1932.40	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.10	Wt. n-Val.		0.040	
W.S. Elev (ft)	1932.31	Reach Len. (ft)	102.33	102.33	102.33

Crit W.S. (ft)		Flow Area (sq ft)		8942.61	
E.G. Slope (ft/ft)	0.001848	Area (sq ft)		8942.61	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	4551.43	Top Width (ft)		4551.43	
Vel Total (ft/s)	2.50	Avg. Vel. (ft/s)		2.50	
Max Chl Dpth (ft)	4.30	Hydr. Depth (ft)		1.96	
Conv. Total (cfs)	521055.3	Conv. (cfs)		521055.3	
Length Wtd. (ft)	102.33	Wetted Per. (ft)		4552.37	
Min Ch El (ft)	1928.00	Shear (lb/sq ft)		0.23	
Alpha	1.00	Stream Power (lb/ft s)	6134.62	0.00	0.00
Frctn Loss (ft)	0.19	Cum Volume (acre-ft)		2034.29	
C & E Loss (ft)	0.00	Cum SA (acres)		967.82	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -8218.22

INPUT
Description:
Station Elevation Data num= 413

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1938.14	1295.92	1930	1370.7	1930	1406.44	1929.99	1426.47	1930
1521.18	1930	1533.87	1929.98	1544.92	1929.99	1547.47	1930	1552.11	1930
1566.45	1930.24	1570.29	1930.32	1574.44	1930.39	1576.73	1930.44	1598.76	1931
2218.68	1931	2225.94	1930.98	2231.52	1930.88	2234.75	1930.81	2237.95	1930.71
2238.85	1930.7	2256.91	1930	2257.91	1929.81	2260.98	1929.66	2272.73	1929.01
2274.49	1929	2318.48	1929.96	2320.76	1930	2431.79	1930	2441.06	1929.67
2448.81	1929.37	2455.26	1929.17	2456.09	1929.18	2457.86	1929.13	2460.21	1929.15
2461.09	1929.13	2463.7	1929.16	2471.48	1929.16	2472.76	1929.17	2484.53	1929.31
2501.41	1929.18	2523.62	1929	2536.93	1929	2542.68	1929.21	2551.12	1929.53
2562.22	1929.94	2564.27	1930	2734.53	1930	2741.1	1929.64	2748.13	1929.73
2753.85	1929.97	2757.06	1929.97	2762.31	1929.95	2769.71	1929.96	2776.77	1930
2839.52	1930	2843.4	1930.75	2845.19	1931	2851.93	1932	2870.65	1932
2875.65	1931.66	2878.57	1931.41	2883.45	1931.11	2884.86	1931	3022.93	1931
3061.87	1931.91	3065.58	1932	3079.52	1933	3111.16	1933	3119.88	1932.27
3123.41	1932	3137.76	1931	3139.46	1930.94	3146.99	1930.74	3148.71	1930.72
3154.22	1930.59	3172.09	1930	3196.43	1930	3201.36	1930.07	3215.51	1930.69
3220.26	1930.87	3223.26	1931	3256.24	1931	3266.09	1930.98	3273.15	1930.99
3279.52	1930.99	3288.87	1930.71	3289.5	1930.71	3293.78	1930.55	3305.57	1930
3317.16	1929.54	3327.92	1929.21	3331.01	1929.15	3340.43	1929.14	3346.83	1929.12
3350.86	1929.12	3353.26	1929.15	3359.56	1929.26	3376.15	1929.62	3380.95	1929.72
3386.92	1929.8	3393.13	1929.82	3402.52	1929.83	3412.7	1929.89	3420.63	1929.91
3425.12	1929.9	3426.54	1929.91	3432.24	1929.89	3453.18	1930	3464.76	1930
3465.18	1929.99	3484.35	1929.75	3499.7	1930	3513.57	1930.35	3524.88	1930.58
3525.17	1930.59	3534.45	1930.67	3540.92	1930.72	3545.85	1930.63	3554.77	1930.73
3561.41	1930.77	3566.96	1930.78	3570.56	1930.76	3573.54	1930.68	3576.32	1930.68
3585.04	1930.49	3604.46	1930.01	3604.75	1930	3651.87	1930	3659.91	1930.1
3666.06	1930	3669.63	1930	3673.12	1930.12	3676.64	1930.27	3679.16	1930.39
3694.1	1931	3698.2	1931.09	3703.77	1931.19	3727.22	1931.17	3751.93	1931.14
3758.66	1931	3763.73	1931	3766.14	1930.99	3775.58	1930.99	3779.67	1931
3789.67	1930.99	3796.24	1931	3796.38	1931.01	3818.91	1931.52	3836.85	1931.8
3841.23	1931.89	3850.27	1931.99	3856.77	1931.98	3865.17	1932	3872.05	1932.45
3875.35	1932.59	3882.72	1933	3885.5	1933.23	3887.29	1933.35	3888.02	1933.35
3894.68	1933.56	3896.07	1933.54	3898.66	1933.54	3904.45	1933.76	3905.62	1933.78
3914.43	1934	3916.47	1934.17	3921.28	1934.33	3924.59	1934.43	3936.08	1934
3937.14	1934	3941.99	1934.1	3943.68	1934.1	3950.14	1934	3950.45	1933.98
3957.05	1933.25	3959.52	1933	3965.62	1932.48	3971.57	1932	3978.58	1931.68
3985.7	1931.37	3987.96	1931.31	3994	1931	3996.68	1931.06	3998.06	1931.11
4009.25	1931.62	4015.36	1932	4017.01	1932.01	4025.75	1932.01	4033.52	1932
4037.54	1931.9	4046.62	1931.66	4048.95	1931.68	4055.18	1931.43	4062.72	1931.06
4063.67	1931	4074.3	1931	4080.41	1931.18	4085.54	1931.3	4087.37	1931.36
4096.37	1931.39	4098.5	1931.61	4101.51	1932	4103.91	1932.36	4108.01	1933
4109.47	1933.29	4113.59	1934.01	4117.32	1935	4118.83	1935.49	4120.29	1936
4148.32	1936	4152.66	1934.88	4156.72	1934	4162.28	1932.75	4165.49	1932
4170.73	1930.76	4182.21	1930.74	4193.85	1930.76	4199.69	1931	4201.15	1931
4203.22	1931.16	4206.08	1931.44	4213.71	1932	4223.47	1932.64	4224.14	1932.66
4236.13	1932.92	4238.09	1933	4239.09	1933	4240.52	1933.06	4244.47	1933.27
4246.71	1933.41	4254.02	1934	4269.15	1934.05	4284.28	1934	4300.99	1933
4318.29	1933	4320.02	1933.01	4337.1	1933.01	4346.84	1933	4360.97	1933
4367.13	1934	4369.92	1934.39	4372.89	1934.76	4374.97	1935	4400.73	1935
4407.27	1934.67	4411.8	1934.43	4416.05	1934.25	4417.15	1934.19	4423.24	1934
4431.73	1933.62	4439.3	1933	4443.08	1932.32	4449.89	1931	4453.4	1930.29
4454.76	1930	4459.72	1929	4460.21	1929	4467.13	1928.63	4470.83	1928.5
4471.78	1928.51	4474.69	1928.48	4476.38	1928.48	4486.68	1928.56	4505.81	1928.9
4510.19	1929	4555.21	1929	4609.06	1928.56	4644.6	1928.28	4665.84	1928.13
4683.18	1928	4710.47	1927.96	4727.08	1927.99	4731.75	1927.99	4739.65	1928
4742.82	1928.13	4744.4	1928.17	4755.6	1928.6	4765.41	1928.91	4777.14	1928.94
4782.23	1928.93	4784.27	1928.91	4789.66	1929	4799.06	1929.26	4801.08	1929.28
4820.03	1929.72	4833.54	1929.4	4836.32	1929.43	4838.27	1929.34	4840.58	1929.35
4848.63	1929	4894.17	1929	4904.64	1929.41	4914.97	1930	4937.91	1930
4948.86	1929.86	4955.31	1929.72	4958.23	1929.68	4985.8	1929.21	4997.13	1929.01
5020.42	1929.01	5034.65	1929	5042.16	1929	5048.52	1928.98	5054.08	1928.98
5092.03	1928.16	5096.18	1928.09	5104.48	1928.12	5107.74	1928.1	5121.85	1928.11

5127.03	1928.12	5132.75	1928.12	5149.65	1928.29	5160.82	1928.43	5167.42	1928.5
5168.25	1928.52	5176.14	1928.63	5185.91	1928.73	5197.6	1929	5399.01	1929
5407.19	1928.99	5417.59	1928.99	5424.2	1929	5446.74	1929	5446.8	1928.99
5455.05	1928.99	5457.56	1928.98	5471.65	1929	5475.45	1928.99	5492.46	1928.98
5499.03	1928.98	5512.48	1928.96	5519.02	1928.97	5523.08	1928.96	5540.36	1928.99
5550.54	1929	5569.19	1929	5574.2	1929.85	5575.69	1930.09	5585.74	1931
5593.19	1931.56	5598.11	1932	5606.14	1932.51	5607.65	1932.58	5619.74	1933
5632.95	1933	5641.87	1932.75	5660.42	1932	5664.11	1931.81	5665.41	1931.76
5673.73	1931.33	5675.28	1931.28	5678.89	1931.13	5682.59	1931.06	5689.45	1931.02
5695.05	1931	5710.28	1931	5710.99	1930.98	5713.58	1930.97	5716.58	1930.9
5729.47	1930.66	5731.39	1930.62	5740.18	1930.5	5745.72	1930.4	5750.45	1930.33
5764.22	1930.01	5765.26	1930	5775.95	1930	5802.12	1929.53	5802.66	1929.53
5817.66	1929.37	5849.24	1929.02	5850.06	1929	5886.07	1929	5897.96	1930
5923.46	1930.99	5942.55	1932	5948.37	1933.3	5952.27	1934	5953.45	1934.26
5954.69	1934.42	5955.92	1934.54	5957.36	1934.52	5961.13	1934.36	5967.84	1934.01
5969.28	1933.98	5972	1933.86	5975.08	1934	5977.61	1935	5978.72	1935.39
5981.44	1936.23	5983.2	1936.83	5984.89	1937	5987.62	1937.47	5992.2	1938.52
5994.16	1938.9	5995.2	1939.05	5996.15	1939.13	5997.38	1939.17	6001.7	1939.11
6002.99	1939.26	6004.27	1939.56	6005.82	1939.96	6006.97	1940	6007.82	1940.27
6017.78	1943	6021.41	1943.63	6023.62	1943.99	6026.25	1944.17	6034.83	1945
6045.65	1946	6056.2	1946.22	6066.06	1946.39				

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	6066.06	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	6066.06	179.79	179.79	179.79	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1932.21	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.10	Wt. n-Val.		0.040	
W.S. Elev (ft)	1932.11	Reach Len. (ft)	179.79	179.79	179.79
Crit W.S. (ft)		Flow Area (sq ft)		8849.92	
E.G. Slope (ft/ft)	0.001872	Area (sq ft)		8849.92	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	4475.98	Top Width (ft)		4475.98	
Vel Total (ft/s)	2.53	Avg. Vel. (ft/s)		2.53	
Max Chl Dpth (ft)	4.15	Hydr. Depth (ft)		1.98	
Conv. Total (cfs)	517771.7	Conv. (cfs)		517771.7	
Length Wtd. (ft)	179.79	Wetted Per. (ft)		4477.58	
Min Ch El (ft)	1927.96	Shear (lb/sq ft)		0.23	
Alpha	1.00	Stream Power (lb/ft s)	6066.06	0.00	0.00
Frctn Loss (ft)	0.41	Cum Volume (acre-ft)		2013.39	
C & E Loss (ft)	0.00	Cum SA (acres)		957.22	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -8398.01

INPUT
Description:
Station Elevation Data num= 421

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1937.94	1292.12	1930.19	1292.42	1930.16	1303.3	1930	1503.09	1930
1519.77	1929.87	1525.27	1929.91	1538.98	1929.95	1544.78	1930	1559.95	1930.31
1561.87	1930.36	1589.43	1930.87	1596.14	1931	1859.36	1931	1872.12	1930.98
1910.82	1930.95	1920.04	1930.99	1920.82	1931	2175	1931	2185.79	1930.97
2190.12	1930.84	2203.71	1930.46	2206.25	1930.42	2216.62	1930.18	2221.97	1930.03
2223.75	1930.03	2224.78	1930	2241.78	1929.13	2245.01	1929	2265.04	1929
2280.27	1929.3	2281.28	1929.31	2297.22	1929.54	2305.27	1929.65	2305.58	1929.66
2314.17	1929.72	2339.1	1929.96	2341.69	1929.96	2349.71	1930	2430.07	1930
2470.35	1929	2510.72	1929	2516.17	1929.12	2527.6	1929.33	2552.75	1929.59
2563.85	1929.71	2565.22	1929.7	2587.11	1929.76	2613.57	1929.85	2617.97	1929.87
2632.66	1930	2766.12	1930	2766.34	1930.01	2782.14	1930.34	2796.51	1930.48
2804.76	1930.33	2814.27	1930.04	2824.31	1930	2831.8	1929.7	2837.27	1929.53
2840.68	1929.44	2844.5	1929.37	2856.39	1929.3	2861.1	1929.42	2872.79	1929.73
2873.16	1929.73	2877.4	1930	2879.27	1930.02	2902.01	1930.67	2909.41	1930.85
2913.5	1931	2914.8	1931	2918.62	1931.24	2920.33	1931.3	2933.67	1931.71
2937.96	1931.77	2941.62	1931.71	2944.74	1931.63	2947.95	1931.27	2949.78	1931.04
2961.69	1931.03	2971.53	1931	2973.66	1931	3003.73	1930.97	3020.28	1930.98
3025.26	1930.98	3033.7	1930.69	3042.46	1930.82	3053.75	1930.97	3057.46	1931
3061.46	1931	3064.2	1930.98	3066.13	1931	3078.82	1932	3081.64	1932.25
3084.88	1932.56	3092.17	1932.67	3096.92	1932.71	3103.1	1932.4	3109.12	1932.17
3112.93	1932	3123.51	1931.31	3130.22	1931	3133.26	1930.82	3141.2	1930.77
3149.93	1930.9	3151.8	1931	3159.41	1931.01	3160.94	1931	3178.09	1931
3180.04	1930.98	3198.85	1931	3224.61	1931	3231.83	1930.93	3235.88	1930.81
3244	1930.65	3245.04	1930.6	3249.65	1930.47	3265.94	1930	3269.23	1929.92
3291.15	1929.87	3314.5	1929.99	3315.23	1930	3337.69	1930	3359.95	1929.96
3363.27	1929.95	3388.62	1930	3432.05	1930	3432.98	1929.95	3446.6	1929.71
3457.2	1929.48	3475.79	1929.85	3480.4	1930.04	3488.01	1930.39	3491.31	1930.52
3494.39	1930.6	3495.82	1930.6	3505.66	1930.25	3510.96	1930	3528.16	1930

3535.06	1930.01	3547.85	1930.01	3559.89	1930.02	3567.12	1930.01	3599.87	1930.01
3601.05	1930	3635.33	1930	3660.61	1930.2	3666.19	1930.27	3667.79	1930.3
3682.99	1930.49	3687.39	1930.54	3706.91	1930.73	3716.56	1930.77	3719.74	1930.69
3721.68	1930.74	3722.92	1930.74	3727.26	1930.64	3743.04	1930.04	3743.91	1930
3751.08	1929.99	3758.59	1930.01	3761.33	1930.1	3762.82	1930.13	3792.84	1931
3826.16	1931	3831.34	1930.99	3862.22	1930.99	3876.04	1931	3880.13	1931.29
3890.4	1932	3893.76	1932.13	3894.85	1932.2	3903.1	1932.59	3906.48	1932.84
3908.86	1933	3911.81	1933.12	3920.19	1933.41	3924.09	1933.51	3928.39	1933.53
3930.87	1933.5	3939.55	1933.35	3945.4	1933.24	3948.68	1933.14	3952.64	1933
3961.33	1932.36	3973.02	1931.43	3974.35	1931.39	3986.75	1931.34	3989.22	1931.39
4004.11	1931.93	4011.01	1932.12	4016.05	1932.23	4025.8	1932.18	4037.13	1932.1
4040.74	1932	4044.95	1931.9	4046.58	1931.89	4048.9	1931.84	4056.85	1931.7
4062.75	1931.62	4071.45	1931.61	4074.51	1931.6	4078.78	1931.56	4086.31	1931.52
4093.4	1931.44	4099.29	1931.51	4102.19	1931.4	4107.45	1931.1	4109.45	1931
4114.98	1930.79	4125.07	1930.5	4126.96	1930.44	4134.56	1930.14	4138.6	1930
4145.83	1930	4151.77	1930.15	4153.58	1930.1	4161.84	1930.26	4178.63	1930.61
4189.55	1931	4195.45	1931.59	4199.12	1932	4206.79	1932.01	4213.36	1932
4222.42	1932.15	4225.06	1932.17	4231.36	1932.19	4242.92	1932.29	4256.56	1932.4
4264.62	1932.41	4272.53	1932.38	4282.24	1932.28	4290.16	1932.11	4293.97	1932
4305.7	1931	4313.84	1931	4317.69	1931.64	4320.37	1932	4322.76	1932.22
4323.97	1932.28	4326.29	1932.34	4327.16	1932.34	4336.13	1932.42	4338.75	1932.41
4341.59	1932.34	4341.99	1932.36	4351.88	1932.07	4355.76	1932	4359.74	1932
4362.64	1932.09	4365.15	1932.15	4373.61	1932.44	4386.23	1932.96	4387.23	1932.97
4397.76	1932.23	4400.67	1932	4406.37	1931.48	4411.95	1931	4416.65	1930.54
4422.68	1930	4432.08	1929.36	4436.85	1929	4447.2	1928.23	4457.98	1928
4480.35	1928	4493.08	1927.77	4502.64	1927.9	4528.72	1927.83	4553.18	1927.89
4573.43	1927.93	4602.5	1927.78	4605.32	1927.76	4613.95	1927.77	4619.85	1927.72
4625.52	1927.66	4632.79	1927.66	4641.36	1927.67	4644.8	1927.62	4649.85	1927.52
4655.83	1927.37	4662.24	1927.28	4677.12	1927	4690	1926.99	4698.64	1927
4704.43	1927	4706.53	1927.19	4715.79	1928	4721.14	1928.56	4723.92	1928.8
4726.47	1929	4736.88	1929.6	4744.12	1930	4766.97	1930	4791.56	1929
4929.52	1929	4930.44	1929.01	4936.42	1929	4958.73	1929	4963.42	1929.14
4972.87	1929.24	4985.66	1929.31	4986.74	1929.35	4992.9	1929.39	4996.36	1929.44
5003.23	1929.57	5013.74	1929.46	5030.8	1929.21	5037.57	1929	5041.36	1928.96
5075.47	1928.56	5085.31	1928.45	5091.87	1928.37	5121.1	1928	5143.47	1927.34
5156.06	1927	5198.83	1927	5205.96	1927.19	5206.47	1927.19	5237.49	1927.99
5248.13	1927.99	5250.54	1927.98	5261.95	1927.98	5287.85	1927.96	5291.57	1927.96
5308.76	1927.92	5313.42	1927.93	5319.04	1927.93	5334.08	1927.96	5341.89	1927.96
5349.51	1927.97	5361.42	1928	5368.9	1928.15	5384.42	1928.01	5392.24	1928.01
5411.88	1928	5440.25	1927	5454.75	1927	5459.06	1927.29	5459.4	1927.3
5462.88	1927.55	5469.38	1928	5471.48	1928	5478.57	1929	5487.86	1930
5494.84	1930.83	5496.15	1931	5499.88	1931.52	5503.62	1932	5508.82	1932.41
5511.77	1932.63	5516.79	1932.95	5518.08	1932.94	5519.2	1932.87	5523.99	1932.48
5530.24	1932	5535.37	1931.83	5544.34	1931.61	5546.43	1931.59	5555.69	1931.39
5567.41	1931.13	5571.35	1931.01	5580	1930.86	5587.72	1930.71	5609.75	1930.31
5611.21	1930.28	5621.68	1930.03	5623.6	1930.01	5629.95	1930.36	5644	1931
5678.15	1931	5685.1	1930.51	5691.65	1930	5699.12	1929.98	5713.59	1929.63
5716.93	1929.57	5728.65	1929	5737.95	1929	5738.69	1929.03	5744.31	1929.12
5745.4	1929.12	5755.71	1929.71	5761.31	1930	5769.98	1930	5787.62	1929
5807.91	1929	5810.07	1929.23	5811.8	1929.39	5818.73	1930	5824.43	1930.47
5835.52	1931	5836.63	1931.01	5841.52	1931.01	5846.98	1931.02	5852.74	1931.01
5859.33	1931.01	5860.04	1931	5867.64	1931	5870.47	1931.92	5874.18	1933.26
5876.43	1934.06	5881	1935.66	5881.88	1936	5883.29	1936.49	5890.15	1938.94
5892.65	1940	5895.56	1941	5901.18	1943	5902.69	1943.59	5904.95	1944.43
5906.58	1944.66	5910.64	1945.04	5916.35	1946	5916.89	1946.06	5917.69	1946.02
5922.39	1946.13	5926.98	1946.03	5927.66	1946	5983.83	1946	5994.66	1945.97
5998.65	1945.93								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	5998.65	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	5998.65	98.63	98.63	98.63	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1931.80	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.13	Wt. n-Val.		0.040	
W.S. Elev (ft)	1931.67	Reach Len. (ft)	98.63	98.63	98.63
Crit W.S. (ft)		Flow Area (sq ft)		7749.19	
E.G. Slope (ft/ft)	0.002843	Area (sq ft)		7749.19	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	4393.50	Top Width (ft)		4393.50	
Vel Total (ft/s)	2.89	Avg. Vel. (ft/s)		2.89	
Max Chl Dpth (ft)	4.68	Hydr. Depth (ft)		1.76	
Conv. Total (cfs)	420136.9	Conv. (cfs)		420136.9	
Length Wtd. (ft)	98.63	Wetted Per. (ft)		4394.99	
Min Ch El (ft)	1926.99	Shear (lb/sq ft)		0.31	
Alpha	1.00	Stream Power (lb/ft s)	5998.65	0.00	0.00
Frctn Loss (ft)	0.25	Cum Volume (acre-ft)		1979.14	
C & E Loss (ft)	0.00	Cum SA (acres)		938.92	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -8496.64

INPUT
Description:
Station Elevation Data num= 427

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1937.61	1358.8	1929.87	1363.54	1929.91	1366.54	1929.92	1375.36	1930
1499.98	1930	1500.22	1929.66	1501.03	1929	1519.87	1929	1521.33	1929.19
1523.28	1930	1525.09	1930.02	1545.72	1930.52	1549.93	1930.61	1554.75	1930.69
1555.64	1930.72	1570.77	1930.97	1572.86	1931	1757.68	1931	1759.86	1930.98
1773.34	1930.82	1780.4	1930.75	1785.64	1930.71	1792.44	1930.64	1798.17	1930.56
1802.61	1930.59	1828.1	1930.42	1835.27	1930.44	1845.08	1930.45	1880.86	1930.41
1929.74	1930.68	1979.89	1930.98	1982.78	1931	2082.66	1931	2083.14	1930.99
2128.27	1930.6	2136.28	1930.74	2138.51	1930.75	2151.88	1931	2163.05	1931
2174.29	1930.8	2186.97	1930.56	2212.54	1930	2226.63	1929.34	2233.78	1929
2341.26	1929	2348.33	1929.15	2354.15	1929.32	2371.19	1929.63	2377.64	1929.74
2383.6	1929.74	2390.12	1929.71	2403.69	1929.54	2413.58	1929.38	2416.51	1929.34
2424.73	1929.26	2440.29	1929	2478.77	1929	2485.36	1928.99	2496.27	1928.99
2510.13	1929	2610.53	1929	2617.54	1929.09	2628.93	1929.29	2637.44	1929.25
2649.46	1929.34	2657.41	1929.28	2661.12	1929.27	2665.56	1929.39	2678.37	1929.77
2683.03	1930	2814.29	1930	2833.1	1930.78	2838.94	1930.85	2843.26	1930.74
2854.06	1930.41	2861.55	1930.17	2868.71	1930	2875.11	1930	2877.44	1929.99
2889.98	1929.98	2898.34	1930	2927.65	1930	2931.24	1929.93	2940.94	1930
2971.13	1930	2974.44	1930.09	3001.81	1930.74	3006.64	1930.84	3009.41	1930.87
3015.72	1930.87	3021.78	1931	3023.03	1930.99	3037.33	1930.35	3041.36	1930.19
3045.04	1930.22	3056.41	1930.36	3065.16	1930.4	3070.59	1930.41	3078.01	1930.58
3088.57	1930.95	3093.51	1930.96	3093.87	1931	3104.83	1931.55	3105.75	1931.57
3110.87	1931.77	3113.38	1931.79	3119.6	1931.77	3128.65	1931.87	3142	1931.84
3150.73	1931.64	3161.97	1931.18	3165.32	1931.03	3168.77	1931.03	3175.9	1931
3179.04	1930.89	3196.77	1930.5	3201.59	1930.37	3219.26	1930	3233.06	1929.35
3233.89	1929.28	3238.21	1929	3382.35	1929	3386.76	1929.02	3391.44	1929.12
3401.83	1929.29	3402.76	1929.29	3426.42	1929	3445.67	1929	3462.51	1929.44
3468.75	1929.59	3483.19	1929.92	3488.48	1930	3507.45	1930	3509.53	1930.03
3513.85	1930	3534.43	1930	3549.09	1930.01	3554.46	1930	3614.18	1930
3615.4	1930.03	3632.99	1930.23	3661.11	1930.51	3662.57	1930.54	3673.17	1930.63
3680.46	1930.68	3685.13	1930.75	3688.49	1930.7	3692.27	1930.75	3694.92	1930.74
3697.85	1930.68	3703.1	1930.45	3704.22	1930.42	3710.29	1930	3717.81	1929.75
3743.21	1929.41	3752.97	1929.29	3758.95	1929.36	3764.71	1929.46	3775.23	1929.66
3786.74	1929.94	3788.94	1930	3795.95	1930.25	3800.4	1930.4	3810.79	1930.78
3812.39	1930.83	3819.14	1931	3825.55	1931	3830.97	1930.91	3857.89	1930.41
3864.44	1930.31	3879.8	1930	3897.08	1930	3910.65	1929.99	3923.25	1930
3947.72	1930	3956.7	1930.39	3973.16	1930.78	3979.41	1931	3983.66	1931.38
3993.48	1932	4000.61	1932.4	4003.09	1932.42	4004.42	1932.47	4008.92	1932.49
4019.16	1932.34	4038.66	1932.03	4038.9	1932.03	4047.1	1931	4049.94	1930.77
4051.72	1930.67	4059.18	1930.7	4070.11	1930.48	4081.88	1930.28	4082.71	1930.26
4097.74	1930	4102.67	1930	4118.61	1930.76	4124.42	1931	4128.71	1931
4148.75	1930.68	4152.5	1930.61	4157.11	1930.54	4175.32	1930.4	4187.24	1930.17
4188.97	1930	4213.38	1930	4216.87	1930.33	4225.07	1931	4227.47	1931.21
4235.88	1932	4239.52	1932.24	4242.66	1932.32	4245.02	1932.35	4247	1932.32
4254.81	1932	4258.27	1931.9	4265.51	1931.77	4268.24	1931.74	4277.36	1931.6
4283.25	1931.63	4292.48	1932	4304.61	1932.89	4306.02	1933	4321	1933
4322.45	1932.74	4331.5	1931	4336.01	1930	4346.06	1930	4350.8	1930.52
4364.46	1932	4370.64	1932.57	4375.16	1933	4375.38	1933	4380.27	1933.4
4389.12	1934	4394.51	1934	4399.97	1932.97	4408.27	1931.66	4411.37	1931.12
4414.4	1930.56	4417.74	1929.92	4421.19	1929.22	4424.6	1928.43	4426.08	1928
4433.12	1927.69	4446.14	1927.01	4451.99	1927.01	4460.56	1927.17	4467.48	1927.29
4468.71	1927.29	4497.73	1927.9	4512.3	1927.94	4595.88	1927.34	4630.13	1927.09
4639.03	1927.05	4648.44	1926.98	4649.49	1926.98	4658.45	1926.72	4685.71	1926
4686.89	1926	4698.43	1926.71	4702.32	1926.76	4705.5	1926.83	4709.58	1926.98
4718.04	1927.48	4725.23	1928	4732.36	1928.32	4742.15	1928.73	4748.2	1929
4748.98	1929	4755.31	1928.83	4761.2	1928.69	4789.49	1928.6	4802.65	1928.5
4814.6	1928.43	4829.91	1928.52	4854.32	1928.68	4855.27	1928.7	4858.71	1928.66
4859.92	1928.68	4864.47	1928.64	4869.16	1928.64	4871.95	1928.57	4896.5	1928.53
4917.71	1928.51	4930.87	1928.64	4938.74	1928.71	4950.4	1929	4994.8	1929
4996.97	1929.02	5009.21	1929.33	5020.13	1929.57	5029.56	1929.73	5033.02	1929.81
5036.68	1929.86	5038.53	1929.85	5041.27	1929.79	5052.87	1929.26	5058.1	1929
5058.85	1929	5069.57	1928.79	5110.64	1928.01	5115.01	1927.99	5157.71	1927.56
5178.69	1927.38	5179.16	1927.38	5213.64	1927.03	5220.04	1927.04	5226.08	1927.06
5237.04	1927.06	5245.56	1927.04	5245.71	1927.03	5267.55	1927.03	5272.26	1927
5299.1	1926.52	5306.64	1926.41	5310.75	1926.34	5324.26	1926.19	5331.25	1926.2
5334.33	1926.18	5337.85	1926.19	5342.43	1926.27	5354.74	1926.52	5355.3	1926.52
5358.71	1926.64	5363.08	1926.69	5366.6	1926.69	5370.59	1927	5374.36	1927.25
5388.12	1928	5396.42	1928.59	5401.56	1928.92	5403.08	1929	5414.52	1929
5422.35	1930	5423.85	1930.17	5424.66	1930.32	5429.15	1931	5446.85	1931
5456.98	1931.13	5458.2	1931.11	5459.79	1931	5465.06	1930.87	5466.1	1930.88
5477.64	1930.08	5479.64	1930	5485.63	1929.99	5488.49	1929.87	5492.05	1929.77
5493.7	1929.76	5496.64	1929.66	5505.96	1929.46	5513.67	1929.25	5521.44	1929.14
5523.18	1929.15	5543.03	1929.08	5558.22	1929.01	5558.89	1929	5567.71	1929
5568.94	1929.04	5590.77	1929.82	5593.88	1929.88	5597.72	1929.86	5601.61	1929.78
5605.13	1929.67	5608.25	1929.55	5615.15	1929	5621.91	1928.93	5629.04	1929
5632.97	1929.3	5633.34	1929.29	5646.32	1929.51	5653.25	1929.62	5665.26	1929.58
5675.55	1929.57	5683.88	1929.71	5686.86	1929.68	5690.9	1929.6	5693.38	1929.71
5696.1	1929.54	5697.16	1929.59	5698.04	1929.53	5702.42	1929.44	5705.81	1929.39
5708.18	1929.3	5711.05	1929.13	5712.46	1929.09	5717.79	1928.25	5726.47	1927
5737.49	1927	5743.1	1927.38	5744.15	1927.44	5752.04	1928	5761.56	1928.44
5765.76	1928.62	5771.58	1929	5776.17	1929.7	5780.04	1930	5781.11	1930.57

5782.86	1931.06	5788.22	1932	5794.11	1932.87	5799.08	1933.63	5807.9	1935
5814.37	1936.02	5820	1937.06	5825.24	1938	5832.13	1939.25	5838.64	1940.38
5842.97	1941	5847.41	1941.42	5853.95	1942	5857.95	1942.43	5862.96	1943
5871.89	1944	5873.63	1944.09	5886.33	1944.68	5890.77	1944.82	5892.8	1944.91
5896.98	1944.93	5902.2	1944.9	5904.09	1944.87	5911.55	1944.85	5919.56	1944.9
5924.53	1945	5930.78	1945						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	5930.78	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	5930.78	161.54	161.54	161.54	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1931.54	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.11	Wt. n-Val.		0.040	
W.S. Elev (ft)	1931.43	Reach Len. (ft)	161.54	161.54	161.54
Crit W.S. (ft)		Flow Area (sq ft)		8284.33	
E.G. Slope (ft/ft)	0.002306	Area (sq ft)		8284.33	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	4436.47	Top Width (ft)		4436.47	
Vel Total (ft/s)	2.70	Avg. Vel. (ft/s)		2.70	
Max Chl Dpth (ft)	5.43	Hydr. Depth (ft)		1.87	
Conv. Total (cfs)	466475.7	Conv. (cfs)		466475.7	
Length Wtd. (ft)	161.54	Wetted Per. (ft)		4439.18	
Min Ch El (ft)	1926.00	Shear (lb/sq ft)		0.27	
Alpha	1.00	Stream Power (lb/ft s)	5930.78	0.00	0.00
Frctn Loss (ft)	0.37	Cum Volume (acre-ft)		1960.98	
C & E Loss (ft)	0.00	Cum SA (acres)		928.92	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -8658.18

INPUT
Description:
Station Elevation Data num= 412

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1937.12	1318.2	1931.38	1323.17	1931.28	1337.91	1930.93	1338.16	1930.92
1360.56	1930.39	1360.69	1930.39	1363.11	1929.89	1370.59	1929.94	1378.12	1930
1487.91	1930	1489.05	1929.73	1490.8	1929	1510.44	1929	1514.18	1929.62
1517.4	1930	1520.69	1930	1556.04	1930.37	1577.18	1930.57	1586.5	1930.67
1615.07	1931	1718.73	1931	1719.31	1930.98	1757.05	1930.43	1763.76	1930.35
1776.93	1930.17	1783.09	1930.09	1791.43	1930	1968.02	1930	1988.14	1930.05
2007.03	1930.09	2009.54	1930.1	2019.06	1930.05	2025.07	1930	2040.07	1930
2046.75	1930.01	2061.67	1930.01	2064.09	1930.02	2084.71	1930.02	2115.7	1930.01
2125.48	1930	2145.11	1929.99	2159.56	1929.99	2198.91	1929.52	2199.77	1929.52
2205.79	1929.39	2208.04	1929.36	2211	1929.3	2221.48	1929	2370.65	1929
2372.71	1928.99	2380.69	1928.99	2393.8	1928.51	2407.86	1928	2421.6	1927.56
2421.82	1927.56	2438.02	1927.19	2448.68	1927.37	2449.84	1927.43	2453.86	1927.58
2465.91	1928	2475.96	1928.23	2481.4	1928.37	2495.66	1928.69	2511.78	1929
2539.9	1929	2574.05	1928.96	2599.06	1928.98	2611.16	1929	2621.51	1929
2653.71	1929.45	2667.7	1929.64	2669.58	1929.64	2678.28	1929.51	2697.41	1929.21
2699.5	1929.18	2708.91	1929	2728.52	1929	2735	1929.01	2742.1	1929.01
2752.28	1929.5	2752.56	1929.5	2756.76	1929.81	2758.39	1929.9	2759.43	1930
2763.65	1930.13	2768.19	1930.25	2771.57	1930.35	2782.36	1930.63	2783.76	1930.65
2790.44	1930.59	2800.62	1930.47	2802.67	1930.33	2805.34	1930.2	2807.72	1930.04
2808.85	1930.04	2810.15	1930	2813.78	1929.82	2817.97	1929.57	2818.71	1929.5
2830.76	1929	2843.57	1929	2849.2	1929.31	2851.04	1929.32	2854.75	1929.39
2862.75	1929.68	2867.45	1930	2869.07	1930.09	2871.51	1930	2913.41	1930
2924.49	1929.83	2930.13	1929.76	2934.21	1929.72	2944.94	1929.65	2945.98	1929.65
2965.21	1929.41	2971.74	1929.37	2988.14	1929	3005.52	1929	3019.71	1929.52
3026.99	1929.79	3032.92	1930	3034.5	1930.02	3053.62	1930.55	3066.78	1931
3086.03	1931.99	3086.27	1932	3114.83	1932	3122.17	1931.64	3135.02	1931
3141.91	1930.99	3143.65	1930.98	3149.83	1930.98	3163.25	1930.72	3168.84	1930.62
3180.84	1930.39	3197	1930	3197.9	1930	3249.87	1929.01	3252.23	1929
3258.09	1929	3261.51	1928.99	3302.65	1928.99	3306.16	1929	3389.06	1929
3389.35	1929.01	3409.27	1930	3443.72	1930	3462.71	1929.34	3467.98	1929.19
3474.3	1929	3512.26	1929	3516.22	1929.05	3519.75	1929	3527.53	1929
3533.3	1929.01	3547.57	1929.27	3563.06	1929.53	3565.93	1929.54	3571.55	1929.5
3580.98	1929.66	3599.75	1930	3631.37	1930	3645.3	1930.77	3649.52	1930.87
3650.53	1930.87	3655.87	1930.7	3659.21	1930.57	3660.55	1930.5	3668.08	1930.42
3671.44	1930.3	3673.87	1930.26	3680.74	1930.04	3686.79	1930	3730.94	1930
3750.64	1929.15	3752.65	1929	3765.96	1929	3774.1	1929.3	3794.07	1930
3798.48	1930.13	3805.89	1930.36	3822.22	1930.84	3825.14	1930.91	3829.18	1930.95
3833.23	1930.8	3847.51	1930.23	3851.08	1930.08	3853.52	1930	3855.85	1929.96
3866.94	1929.84	3869.15	1929.85	3878.42	1929.7	3886.57	1929.61	3892.76	1929.47
3900.19	1929.29	3901.49	1929.29	3904.7	1929.2	3907.17	1929.23	3917.86	1929.24
3929.43	1929.27	3937.52	1929.37	3960.42	1929.57	3961.21	1929.57	3974.89	1929.79
3985.64	1930	3986.62	1930.01	3997.87	1930.73	4002.16	1931	4006.31	1931.38
4011.4	1931.42	4016.98	1931.07	4019.82	1931	4037.55	1931	4047.43	1930.99

4060.29	1930.21	4067.31	1929.84	4071.11	1929.65	4077.86	1929.38	4086	1929.56
4103.84	1930	4107.83	1930	4116.73	1930.3	4118.2	1930.36	4129.61	1931
4135.53	1931	4147.52	1930.74	4182.11	1930	4227.18	1930	4233	1930.14
4262.85	1930.99	4263.06	1931	4268.04	1931	4273.89	1931.3	4279.31	1931.57
4283.67	1931.75	4290.39	1932	4297.38	1932.59	4299.84	1933	4307.07	1933.89
4308.16	1934	4311.34	1934	4314.06	1933.79	4317.82	1933.47	4318.39	1933.4
4323.31	1932.9	4326.25	1932.54	4331.23	1931.96	4334.07	1931.55	4338.24	1931
4344.62	1930.81	4365.47	1930.27	4373.87	1930	4377.39	1930	4385.75	1930.53
4393.82	1930.96	4405.06	1931.44	4409.97	1931.08	4412.39	1931.06	4415.75	1931
4421.19	1930.19	4422.81	1930	4424.18	1929.72	4427.49	1929	4432.1	1928.05
4436.75	1927	4469.2	1927	4490.07	1927.01	4498.62	1927	4782.69	1927
4787.67	1927.4	4788.63	1927.46	4799.81	1928	4877.26	1928	4881.37	1927.8
4889.62	1927.45	4899.58	1927	4933.67	1927	4947.45	1927.22	4981.02	1927.35
5005.41	1927.43	5008.6	1927.41	5016.6	1927.49	5028.74	1927.62	5038.73	1927.82
5043.49	1927.93	5045.35	1928	5049.78	1928.21	5067.2	1929	5178.33	1929
5181.59	1928.99	5205.1	1928.17	5206.32	1928.15	5210.33	1928	5217.88	1927.73
5239.53	1927	5248.75	1926.81	5252.05	1926.76	5254.29	1926.71	5273.98	1926.38
5296.86	1926	5370.92	1926	5378.68	1926.26	5391.39	1926.66	5400.3	1926.98
5401.77	1927.01	5409.36	1927.37	5414.75	1927.61	5419.97	1927.76	5424.02	1927.86
5428.78	1928	5442.52	1928.27	5450.23	1928.58	5456.71	1928.75	5459.38	1928.72
5460.97	1929	5466.05	1930	5469.95	1930.73	5473.34	1931	5480.04	1931.71
5483.76	1932	5495.73	1932.03	5497.51	1932.03	5507.08	1932	5508.87	1931.85
5510.43	1931.79	5512.91	1931.64	5515.2	1931.53	5518.59	1931.42	5527.52	1931
5531.62	1930.75	5535.58	1930.52	5538.26	1930.35	5543.27	1929.99	5554.88	1929
5559.84	1929	5564.48	1928.7	5566.52	1928.72	5572.52	1928.72	5574.57	1929
5577.42	1929.34	5578.66	1929.45	5581.38	1929.6	5583.11	1929.64	5594.39	1930
5597.1	1930	5605.15	1930.02	5611.57	1930	5621.62	1929	5631.32	1928.1
5632.34	1928	5633.22	1927.96	5647.64	1927.38	5649.48	1927.35	5671.84	1927.17
5673.5	1927.15	5675.83	1927.09	5683.72	1927	5687.78	1927	5690.61	1927.09
5714.75	1928	5728.72	1929.06	5729.8	1929.15	5737.46	1929.73	5739.9	1929.84
5741.06	1929.84	5742.58	1929.79	5754.12	1929	5760.41	1928.99	5763.85	1929
5779.48	1930	5783.9	1930.39	5790.38	1931	5795.14	1931.44	5801.34	1931.68
5802.92	1931.77	5805.9	1931.91	5809.27	1932.05	5821.78	1932.51	5823.46	1932.56
5825.75	1932.6	5828.5	1932.87	5831.71	1932.87	5839.79	1933	5840.92	1933.1
5846.18	1933.97	5850.04	1934	5853.26	1934.31	5858.25	1935	5860.46	1935.41
5861.61	1935.65	5863.02	1935.9	5868.87	1936.59	5872.45	1936.98	5873.8	1937.22
5880.5	1938.81	5886.63	1940	5891.35	1940.41	5892.73	1940.59	5896.35	1941.22
5901.54	1942	5907.24	1942.36	5908.67	1942.44	5915.98	1943	5918.87	1943.01
5924.04	1943.01	5931.88	1943.1	5937.26	1943.17	5958.05	1943.31	5973	1943.4
5976.06	1943.46	5978.89	1943.48						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	5978.89	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	5978.89	221.52	221.52	221.52	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1931.17	Element	Left OB	Channel	Right OB	
Vel Head (ft)	0.12	Wt. n-Val.		0.040		
W.S. Elev (ft)	1931.05	Reach Len. (ft)	221.52	221.52	221.52	
Crit W.S. (ft)		Flow Area (sq ft)		8123.49		
E.G. Slope (ft/ft)	0.002315	Area (sq ft)		8123.49		
Q Total (cfs)	22400.00	Flow (cfs)		22400.00		
Top Width (ft)	4237.70	Top Width (ft)		4237.70		
Vel Total (ft/s)	2.76	Avg. Vel. (ft/s)		2.76		
Max Chl Dpth (ft)	5.05	Hydr. Depth (ft)		1.92		
Conv. Total (cfs)	465522.1	Conv. (cfs)		465522.1		
Length Wtd. (ft)	221.52	Wetted Per. (ft)		4239.84		
Min Ch El (ft)	1926.00	Shear (lb/sq ft)		0.28		
Alpha	1.00	Stream Power (lb/ft s)	5978.89	0.00	0.00	
Frctn Loss (ft)	0.53	Cum Volume (acre-ft)		1930.56		
C & E Loss (ft)	0.00	Cum SA (acres)		912.83		

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -8879.7

INPUT
Description:
Station Elevation Data num= 430

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1936.9	1257.65	1929	1283.56	1929	1285.89	1929.03	1371.89	1930
1470.72	1930	1472.15	1929.38	1473.16	1929	1491.94	1929	1492.98	1929.77
1493.38	1930	1612.08	1930	1637.7	1930.26	1638.94	1930.28	1650.67	1930.28
1658.8	1930.23	1668.68	1930.13	1672.95	1930.07	1679.78	1930.01	1688.02	1930
1821.79	1930	1824.54	1929.97	1878.4	1929.71	1909.93	1929.57	1924.06	1929.63
1949.46	1929.54	1964.03	1929.55	1978.77	1929.58	1988.21	1929.53	2005.29	1929.62
2011.8	1929.66	2031.46	1929.92	2037.02	1930	2165.85	1930	2167.68	1929.93
2189.63	1929	2204.48	1928.43	2216.49	1928	2218.23	1928	2218.64	1927.96
2227.47	1927.76	2232.78	1927.55	2235.81	1927.52	2240.96	1927.68	2249.71	1927.66

2259.25	1927.71	2270.6	1927.79	2273.89	1927.84	2294.98	1928	2304.64	1928
2310.84	1928.02	2318.9	1928.02	2331.84	1928	2334.55	1928.01	2342.59	1928.01
2350.53	1928	2380.59	1927.65	2384.01	1927.58	2395.26	1927.43	2396.7	1927.39
2400.93	1927.34	2402.37	1927.3	2408.09	1927.25	2410.09	1927.16	2412.28	1927.11
2415.81	1927	2427.18	1927	2429.73	1927.03	2432.72	1927.04	2439.67	1927.11
2445.5	1927.21	2463.58	1927.57	2465.7	1927.6	2471.99	1927.72	2486.16	1928
2491	1928.26	2495.38	1928.43	2498.08	1928.52	2503.95	1928.64	2512.58	1928.67
2520.82	1928.62	2526.1	1928.62	2533.58	1928.52	2541.07	1928.5	2544.79	1928.4
2547.11	1928.37	2549.13	1928.37	2552.93	1928.42	2569.73	1928.55	2589.23	1928.94
2600.46	1928.98	2600.87	1929	2717.87	1929	2725.82	1928.98	2732.93	1928.98
2739.94	1929	2753.34	1929	2758.65	1929.05	2762.37	1929	2763.66	1929.01
2779.14	1929.01	2785.88	1929	2792.41	1929	2802.36	1928.98	2809.96	1929
2844.79	1929	2850.96	1928.99	2857.14	1928.99	2857.23	1929	2883.62	1929
2905.16	1929.28	2905.87	1929.3	2915.15	1929.43	2925.84	1929.55	2932.89	1929.62
2947.09	1930	2948.82	1930.01	2965.16	1930.53	2978.17	1931	2981.03	1931
2983.41	1930.95	2985.25	1930.94	2988.32	1930.88	3014.62	1930.26	3024.18	1930.05
3026.13	1930	3038.46	1929.48	3042.82	1929.31	3049.9	1929.09	3053.63	1929
3058.59	1929	3068.67	1929.21	3073.63	1929.34	3084.79	1929.32	3096.92	1929.28
3100.1	1929.26	3103.26	1929.26	3105.32	1929.23	3117.04	1929.19	3124.32	1929.01
3131.32	1929.01	3136.41	1929	3206.76	1929	3207.62	1929.26	3209.56	1930
3213.42	1931.15	3216.42	1932	3218.25	1932.48	3220.66	1933	3221.69	1933.17
3224.58	1933.56	3228.45	1934	3230.95	1934.07	3233.44	1933.99	3235.2	1933.64
3237.99	1933	3243.59	1931.77	3246.84	1931	3250.94	1929.9	3253.9	1929
3255.46	1928.49	3256.74	1928	3261.44	1927.87	3262.32	1927.87	3269.6	1927.6
3270.13	1927.59	3280.61	1927.9	3282.82	1928	3285.3	1928.22	3293.05	1929
3300.07	1929.62	3300.5	1929.68	3304.09	1930	3315.52	1930.1	3319.81	1930.08
3323.93	1930.31	3326.87	1930.26	3332.6	1930.2	3340.01	1930	3388.97	1930
3397.07	1930.18	3405.28	1930.35	3410.33	1930.45	3420.48	1930.63	3420.9	1930.63
3431.34	1930.78	3434.48	1930.8	3437.91	1930.8	3474.86	1930.38	3475.21	1930.38
3489.76	1930.12	3495.68	1930.01	3496.91	1930	3510.81	1929.59	3521.71	1929.31
3526.16	1929.22	3529.29	1929.17	3534.56	1929.05	3542.33	1929.06	3552.87	1929.11
3569.18	1929	3622.02	1929	3627.94	1929.83	3635.19	1930.76	3637.25	1931
3641.1	1931.53	3643.44	1932	3647.07	1932.64	3654.96	1934	3660.87	1935
3661.71	1935	3667.37	1933.6	3677.68	1931	3681.81	1929.94	3685.13	1929
3780.66	1929	3797.75	1929.62	3799.14	1929.7	3806.58	1930	3869.26	1930
3873.03	1929.71	3880.12	1929.1	3881.48	1929	3889.14	1929	3898.93	1928.99
3929.59	1928.95	3939.63	1928.96	3952.66	1928.95	3970.97	1928.97	4000.3	1928.98
4054.79	1928.98	4075.17	1929	4115.21	1929	4123.67	1929.42	4133.3	1929.93
4135.77	1929.96	4136.62	1930	4154.74	1930.68	4163.11	1931	4228.13	1931
4233.13	1931.2	4246.99	1931.85	4250.09	1932	4270.81	1932.01	4288.8	1932
4298.98	1931.97	4308.88	1932	4319.2	1932.55	4328.13	1933	4335.75	1933
4340.47	1932.61	4345.08	1932.34	4351.3	1932.12	4351.92	1932	4355.89	1931
4359.76	1930.1	4364.29	1929	4368.17	1928	4369	1927.83	4371.36	1927.67
4373.02	1927.53	4376.32	1927.3	4379.37	1927.03	4381.41	1926.83	4382.26	1926.78
4387.57	1926.33	4388.15	1926.33	4390.76	1926.16	4392.75	1926.15	4395.19	1926.24
4399.08	1926.35	4419.39	1926.3	4444.98	1926.18	4455.67	1926	4501.43	1926
4514.05	1926.1	4522.32	1926.04	4529.95	1926.15	4531.99	1926.23	4545.2	1927
4712.31	1927	4715.64	1926.91	4734.97	1926.47	4742.53	1926.35	4751.55	1926
4764.78	1926	4771.52	1926.21	4782.6	1926.53	4786.4	1926.65	4792.42	1926.8
4798.52	1927	4819.34	1927.03	4830.01	1927.03	4847.06	1927.01	4847.46	1927
5016.47	1927	5081.63	1927.9	5086.84	1927.97	5093.16	1928	5114.18	1928
5130.7	1928.41	5138.57	1928.57	5143.27	1928.64	5153.04	1928.49	5157.55	1928.26
5161.46	1928.09	5165.03	1927.96	5183.42	1927	5190.41	1926.89	5214.58	1926.49
5246.53	1926	5247.04	1926	5254.72	1925.71	5263.84	1925.34	5265.98	1925.27
5269.67	1925.1	5272.43	1925.08	5276.61	1925.08	5278.82	1925.18	5281.06	1925.22
5282.92	1925.28	5292.43	1925.75	5298.21	1926	5300.78	1926	5312.78	1925.92
5317	1925.91	5320.72	1925.93	5325.95	1926	5328.43	1926.02	5334.2	1926.03
5337.65	1926.11	5351.26	1927	5367.03	1927.48	5379.24	1927.33	5392.51	1927.04
5400.96	1927.02	5413.24	1927.02	5425.61	1926.98	5430.63	1926.92	5436.56	1926.97
5439.48	1927.08	5459.51	1928	5466.81	1929	5468.15	1929.21	5470.2	1929.42
5473.35	1929.6	5474.81	1929.59	5478.3	1929.69	5480.79	1929.74	5483.14	1929.74
5486.12	1929.98	5490.85	1929.98	5491.13	1929.95	5501.3	1929.21	5504.61	1929
5521.53	1928.97	5528.64	1928.98	5535.44	1928.98	5546.06	1929	5547.6	1929.02
5550.06	1929.16	5555.06	1929.34	5559.5	1929.46	5565.89	1929.99	5567.66	1929.99
5584.28	1929.23	5587.75	1929	5594.94	1929	5597.91	1928.99	5606.15	1929
5615.92	1929.81	5618.4	1930	5628.62	1930	5629.12	1929.88	5635.37	1929
5641.86	1928	5645.35	1927.39	5646.98	1927	5650.94	1926.45	5652.5	1926.49
5656.42	1926.46	5661.39	1926.6	5662.74	1926.66	5673.14	1926.98	5675.19	1927.06
5690.26	1928	5695.51	1928.29	5708.74	1929	5717.35	1929.36	5730.49	1929.86
5734.51	1930	5745.65	1930.49	5756.29	1931	5757.31	1931	5758.42	1931.42
5758.91	1932	5760.03	1932.89	5760.37	1933	5764	1933.55	5765.2	1933.71
5770.75	1934.54	5780.16	1936	5784.28	1937	5785.17	1937.3	5786.85	1937.94
5789.37	1938.77	5795.74	1940.65	5797.43	1941	5799.48	1941.32	5803.27	1942
5808.05	1942.55	5809.11	1942.71	5811.54	1943	5815.77	1943.34	5822.87	1944
5829.21	1944.46	5836.23	1945	5846.14	1945	5849.62	1944.9	5855.73	1944.6
5866.59	1944.01	5867.05	1944	5889.39	1944	5891.67	1943.97	5912.34	1943.74
5922.73	1943.72	5929.7	1943.72	5940.43	1943.71	5942.54	1943.7	5950.72	1943.72

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	5950.72	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	5950.72	134.91	134.91	134.91	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1930.63	Element	Left OB	Channel	Right OB

Vel Head (ft)	0.12	Wt. n-Val.		0.040	
W.S. Elev (ft)	1930.51	Reach Len. (ft)	134.91	134.91	134.91
Crit W.S. (ft)		Flow Area (sq ft)		8033.15	
E.G. Slope (ft/ft)	0.002489	Area (sq ft)		8033.15	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	4349.45	Top Width (ft)		4349.45	
Vel Total (ft/s)	2.79	Avg. Vel. (ft/s)		2.79	
Max Chl Dpth (ft)	5.43	Hydr. Depth (ft)		1.85	
Conv. Total (cfs)	449002.9	Conv. (cfs)		449002.9	
Length Wtd. (ft)	134.91	Wetted Per. (ft)		4352.54	
Min Ch El (ft)	1925.08	Shear (lb/sq ft)		0.29	
Alpha	1.00	Stream Power (lb/ft s)	5950.72	0.00	0.00
Frctn Loss (ft)	0.38	Cum Volume (acre-ft)		1889.48	
C & E Loss (ft)	0.00	Cum SA (acres)		891.00	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -9014.61

INPUT
Description:
Station Elevation Data num= 481

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1936.37	2.45	1936.36	156.94	1935.59	171.22	1935.53	171.5	1935.52
188.08	1935.45	193.08	1935.42	321.85	1934.81	327.69	1934.79	356.92	1934.7
366.49	1934.68	388.15	1934.58	447.65	1934.3	462.26	1934.24	508.82	1934.02
517.09	1933.99	533.09	1933.91	575.34	1933.72	600.87	1933.6	639.04	1933.43
669	1933.27	706.91	1933.07	718.91	1933.01	721.83	1933	731.64	1932.95
732.35	1932.94	771.32	1932.74	777.75	1932.7	780.53	1932.69	804.29	1932.56
810.99	1932.53	813.51	1932.51	848.75	1932.33	851.16	1932.31	856.4	1932.29
862.16	1932.26	872.27	1932.2	877.63	1932.18	882.44	1932.15	887.53	1932.13
889.72	1932.11	893.03	1932.1	921.39	1931.95	928.8	1931.95	947.65	1931.91
948.93	1931.91	976.85	1931.85	980.5	1931.85	980.94	1931.84	985.94	1931.84
986.03	1931.83	990.76	1931.83	991.28	1931.82	996.18	1931.82	996.78	1931.81
1002.3	1931.8	1006.19	1931.8	1016.97	1931.77	1020.98	1931.77	1028.37	1931.75
1031.84	1931.75	1047.99	1931.71	1072.01	1931.67	1231.33	1930.14	1231.77	1930.17
1232.54	1929.42	1233.06	1929	1237.89	1929.07	1245.95	1929.16	1316.04	1929.99
1316.56	1930	1450.29	1930	1455.69	1929.99	1459.83	1929.99	1463.87	1930
1469.38	1930	1472.37	1929.99	1474.03	1930	1574.53	1930	1590.59	1929.88
1609.92	1929.75	1669.28	1929.93	1690.66	1929.99	1691.68	1930	1738.82	1930
1753.11	1929.99	1764.44	1929.99	1766.44	1930	1783.38	1930	1783.82	1929.99
1801.25	1929.99	1828.73	1929.98	1852.7	1929.99	1856.85	1929.99	1864.71	1930
1893.02	1930	1893.85	1929.99	1902.82	1929.99	1906.32	1929.98	1910.8	1929.99
1918.27	1929.99	1947.36	1929.43	1958.25	1929.23	1959.25	1929.23	1966.53	1929.19
1980.08	1929.06	1982.81	1929	2121.51	1929	2128.4	1929.03	2129.89	1929.03
2143.94	1929.07	2157.58	1929.07	2183.7	1929	2191.53	1928.55	2203.92	1928
2214.5	1927	2322.93	1927	2323.53	1927.01	2352.53	1927.13	2352.92	1927.13
2363.43	1927	2402.42	1927	2409.58	1927.07	2450.75	1927.87	2453.74	1928
2455.21	1928.01	2457.55	1928.1	2462.67	1928.28	2473.15	1928.39	2475.32	1928.45
2477.99	1928.49	2479.58	1928.53	2482.31	1928.68	2485.49	1928.71	2488.65	1928.71
2495.32	1928.64	2500.88	1928.59	2510.74	1928.56	2518.77	1928.55	2521.91	1928.53
2526.04	1928.49	2532.42	1928.33	2533.76	1928.31	2543.88	1928	2551.58	1927.74
2557.55	1927.63	2569.65	1927	2584.73	1927	2602.59	1927.7	2608.97	1928
2618.96	1928.25	2637.3	1928.68	2640.54	1928.75	2653.89	1928.98	2658.51	1928.98
2665.73	1929	2671.83	1929.14	2684.35	1929.35	2692.39	1929.45	2697.71	1929.46
2698.59	1929.47	2704.68	1929.43	2712.89	1929.37	2723.02	1929.17	2728.65	1929.1
2740.46	1929.04	2747.95	1929.06	2765.56	1929	2805.05	1929	2806.53	1928.97
2816.93	1928.7	2829.1	1928.69	2842.36	1928.77	2843.33	1928.78	2844.54	1928.75
2845.75	1928.77	2850.71	1928.66	2855.9	1928.5	2859.79	1928.4	2869.13	1928.3
2872.64	1928.21	2879.3	1928.14	2885.1	1928	2938.54	1928	2950.18	1928.39
2966.26	1928.75	2969.77	1928.86	2976.25	1928.9	2982.92	1928.93	2989.99	1928.68
2996.09	1928.62	3010.64	1928.55	3022.87	1928.52	3023.94	1928.54	3026.8	1928.56
3028.96	1928.55	3042.18	1928.93	3044.76	1928.94	3057.94	1928.94	3063.37	1928.95
3065.62	1928.86	3083.91	1928.17	3086.86	1928.13	3101.17	1928.07	3103.85	1928.01
3108.33	1928	3117.97	1927.67	3136.56	1927	3182.92	1927	3188.74	1927.32
3198.21	1927.86	3201.12	1928	3207.38	1928.26	3216.96	1928.65	3226.91	1929
3255.18	1929	3256.5	1929.01	3276.51	1929.01	3281.04	1929	3327.5	1929
3340.04	1929.65	3347.23	1930	3353.73	1930.54	3357.46	1930.82	3358.59	1930.88
3359.79	1930.98	3361.81	1930.97	3362.86	1930.99	3369.72	1930.93	3376.43	1930.77
3378.83	1930.69	3393.05	1930.48	3399.71	1930.13	3400.72	1930.12	3402.39	1930
3467.1	1930	3474.81	1930.11	3484.95	1930.24	3486.96	1930.22	3495.03	1930.24
3504.02	1930.2	3515.27	1930.05	3517.02	1930	3536.9	1929.65	3538.56	1929.63
3547.77	1929.44	3569.82	1929	3613.34	1929	3616.77	1929.79	3622.95	1931.29
3628.44	1932.64	3633.82	1934	3634.72	1934.28	3636.09	1934.64	3637.59	1934.97
3638.23	1934.94	3639.7	1934.67	3641	1934.37	3642.31	1934	3645.94	1933.19
3646.68	1933	3650.25	1932.21	3651.12	1932	3654.37	1931.28	3659.84	1930
3660.91	1929.78	3662.74	1929.47	3668.37	1929	3672.79	1929	3675.14	1929.1
3686.22	1929.53	3690.01	1929.57	3694.29	1929.5	3699.37	1929.24	3702.94	1929.03
3704.71	1929	3891.11	1929	3892.64	1929.02	3903.07	1929.44	3909.11	1929.65
3914.5	1929.65	3918.48	1929.79	3920.18	1929.84	3923.67	1929.81	3932.11	1929.62
3948.92	1929	4002.86	1929	4010.6	1929.1	4011.63	1929.08	4017.65	1929
4024.73	1929.01	4025.1	1929	4099.37	1929	4110.88	1929.8	4112.99	1929.92
4114.82	1930	4127.39	1930.39	4128.78	1930.45	4131.79	1930.55	4140.35	1930.79

4141.69	1930.84	4148.25	1931	4158.02	1931	4171.74	1930.01	4174.26	1929.91
4195.56	1929	4205.93	1929	4210.68	1929.12	4224.26	1929.29	4280.19	1930
4308.84	1930	4313.56	1929.65	4316.74	1929.45	4319.41	1929.2	4321.14	1929.02
4321.95	1929	4323.08	1928.85	4328.95	1928	4331.34	1927.68	4338.56	1926.78
4344.52	1926	4358.61	1925.99	4396.37	1925.99	4413.38	1926	4417.06	1926.15
4423.05	1926.41	4437.03	1926.98	4437.38	1927	4596.9	1927	4602.32	1926.96
4606.01	1927	4611.76	1927	4614.54	1926.99	4616.52	1927	4692.22	1927
4693.94	1926.92	4710.11	1926	4764.8	1926	4770.74	1926.32	4772.52	1926.32
4779.93	1926.44	4788.6	1926.62	4805.45	1927	4870.67	1927	4870.94	1926.97
4874.71	1926.89	4875.85	1926.85	4894.4	1926.35	4896.03	1926.31	4900.27	1926.23
4903.41	1926.15	4906.52	1926.12	4909.55	1926.12	4910.84	1926.14	4917.43	1926.3
4929.4	1926.53	4931.84	1926.59	4949.48	1926.99	4962.33	1927.11	4970.55	1927.15
4978.49	1927.2	4994.54	1927.31	5030.95	1927.55	5048.23	1927.67	5054.74	1927.72
5058.64	1927.74	5084.89	1927.92	5096.3	1928	5110.75	1928	5117.18	1927.74
5119.14	1927.65	5128.34	1927.19	5132.27	1927	5157.64	1926.54	5167.12	1926.38
5174.62	1926.14	5179.23	1926	5194.39	1925.37	5200.16	1925.14	5204.29	1925
5269.55	1925	5272.25	1925.13	5278.67	1925.57	5281.18	1925.73	5284.65	1926
5291.62	1926.45	5300.22	1927	5303.79	1927.01	5330.85	1927.13	5341.2	1927.09
5344.76	1927.07	5346.85	1927.07	5349.64	1927.05	5360.31	1927	5371.78	1926.97
5376.47	1926.97	5381.91	1926.98	5400.61	1926.99	5404.29	1927	5406.55	1926.33
5408.19	1926.41	5411.57	1927	5417.49	1928	5423.13	1929.04	5428.02	1930
5432.68	1930.86	5434.28	1931	5461.24	1931	5463.61	1930.93	5465.67	1930.84
5475.09	1930.27	5478	1930	5479.26	1929.86	5483.22	1929.38	5484.91	1929.25
5486.09	1929.29	5487.96	1929.39	5489.58	1929.61	5491.83	1930	5493.31	1930.07
5496.21	1930.15	5498.23	1930.12	5500.47	1930.25	5502.65	1930.27	5509.27	1930.13
5513.97	1930.01	5518.12	1930	5534.46	1929	5538.65	1928.75	5546.36	1928.59
5551.46	1928.5	5560.34	1928.02	5560.83	1928	5567.1	1927.56	5570.17	1927.43
5579.27	1927	5619.14	1927	5626.09	1927.35	5640.94	1928	5645	1928.55
5650.12	1929	5654.03	1929.32	5662.56	1930	5678.84	1931	5687.08	1931.36
5693.86	1931.62	5702.56	1932	5706.68	1932	5711.49	1933	5714.21	1933.59
5716.17	1934	5720.7	1934.92	5722.41	1935.28	5725.44	1936	5728.8	1936.5
5731.95	1937	5733.58	1937.4	5735.83	1938	5738.4	1938.82	5739.23	1939.05
5740.72	1939.4	5743.63	1940	5747.37	1940.86	5747.88	1941	5749.89	1941.02
5751.27	1941.01	5753.73	1941.42	5754.44	1941.5	5760.43	1942.45	5763.5	1942.69
5765.96	1942.9	5776.64	1943.57	5777.73	1943.59	5784.57	1943.68	5785.34	1943.72
5798.11	1943.86	5799.35	1943.91	5805.44	1943.99	5806.81	1943.97	5808.69	1944
5885.73	1944								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	5885.73	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	5885.73	111.79	111.79	111.79	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1930.25	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.15	Wt. n-Val.		0.040	
W.S. Elev (ft)	1930.10	Reach Len. (ft)	111.79	111.79	111.79
Crit W.S. (ft)		Flow Area (sq ft)		7266.36	
E.G. Slope (ft/ft)	0.003301	Area (sq ft)		7266.36	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	4183.69	Top Width (ft)		4183.69	
Vel Total (ft/s)	3.08	Avg. Vel. (ft/s)		3.08	
Max Chl Dpth (ft)	5.10	Hydr. Depth (ft)		1.74	
Conv. Total (cfs)	389881.2	Conv. (cfs)		389881.2	
Length Wtd. (ft)	111.79	Wetted Per. (ft)		4185.97	
Min Ch El (ft)	1925.00	Shear (lb/sq ft)		0.36	
Alpha	1.00	Stream Power (lb/ft s)	5885.73	0.00	0.00
Frctn Loss (ft)	0.34	Cum Volume (acre-ft)		1865.79	
C & E Loss (ft)	0.00	Cum SA (acres)		877.79	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -9126.4

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1935.96	33.97	1935.81	50.34	1935.74	73.21	1935.65	125.44	1935.4
297.72	1934.55	303.27	1934.53	313.92	1934.47	315.81	1934.47	452.21	1933.81
478.58	1933.73	494.17	1933.69	505.63	1933.65	531.56	1933.53	573.62	1933.34
583.51	1933.3	585.88	1933.28	600.78	1933.22	638.56	1933.04	642.23	1933.03
655.69	1932.96	663.96	1932.93	666.93	1932.91	700.66	1932.76	730.2	1932.62
770.8	1932.43	794.49	1932.3	837.06	1932.08	851.64	1932.01	890.73	1931.8
893.87	1931.79	926.03	1931.61	931.06	1931.59	955.68	1931.45	970.66	1931.38
993.92	1931.26	1023.37	1931.1	1031.59	1931.1	1052.48	1931.06	1053.9	1931.05
1094.43	1930.97	1124.89	1930.92	1145.76	1930.87	1150.02	1930.87	1170.07	1930.83
1176.16	1930.81	1190.41	1930.79	1221.21	1930.73	1226.98	1930.26	1228.44	1929.59
1236.33	1929.68	1238.8	1929.67	1271.94	1929.88	1288.32	1929.99	1306.92	1929.99
1310.73	1930	1426.16	1930	1433.96	1929.64	1447.98	1929.62	1462.86	1929.68

1469.09	1930	1528.12	1930	1554.4	1929.99	1567.63	1930	1621.87	1930
1625.28	1929.95	1693.53	1929	1735.76	1929	1797.32	1929.95	1802.49	1930
1814.59	1930	1815.14	1929.99	1847.85	1929.65	1864.17	1929.49	1871.68	1929.49
1880.1	1929.53	1886.44	1929.52	1893.71	1929.62	1897.97	1929.61	1900.46	1929.64
1914.22	1930	1963.7	1930	1970.66	1929.78	1974.15	1929.75	1987.38	1929.45
1996.03	1929.4	2007.63	1929.23	2016.07	1929	2040.73	1929	2044.68	1928.85
2047.7	1928.76	2054.18	1928.54	2063.07	1928.31	2068.69	1928.24	2086.04	1928
2094.24	1927.97	2104.05	1927.82	2120.63	1927.68	2125.23	1927.68	2134.77	1927.62
2158.5	1927.27	2159.49	1927.24	2171.91	1927	2185.29	1926	2185.67	1926
2194.89	1926.54	2201.72	1926.52	2228.24	1926.99	2237.56	1926.99	2240.46	1927
2398.17	1927	2400.19	1927.06	2430.5	1927.89	2437.15	1928	2482.15	1928
2494.6	1927.84	2506.51	1927.73	2514.09	1927.62	2516.49	1927.57	2535.56	1927.53
2557.17	1927.64	2562.53	1927.65	2564.05	1927.69	2568.26	1927.69	2577.39	1927.9
2581.02	1928	2617.89	1928	2632.51	1927.45	2642.27	1927.43	2652.91	1927.5
2668.85	1928	2684.12	1928.73	2687.27	1928.84	2690.09	1928.82	2700.8	1929
2763.93	1929	2766.21	1929.04	2768	1929.03	2780.53	1929.1	2791.09	1929.11
2803.01	1929.08	2804.14	1929.07	2816.25	1929.06	2831.06	1929	2959.22	1929
2968.21	1928.99	2980.32	1928.99	2982.24	1929	2993.59	1929	2996.22	1929.03
3009.18	1929.64	3016.15	1929.88	3018.1	1929.87	3020.98	1929.77	3024.51	1929.78
3024.99	1929.74	3028.76	1929.73	3030.05	1929.7	3039.96	1929.64	3042.34	1929.66
3044.29	1929.6	3050.25	1929.22	3053.41	1929	3073.64	1929	3089.47	1929.04
3100.39	1929.02	3102.61	1929	3106.49	1928.83	3119.79	1928	3123.76	1927.67
3138.75	1926.33	3142.25	1926	3148.06	1926	3148.91	1926.1	3157.49	1927
3162.65	1927.58	3166.72	1928	3178.46	1928.66	3186.58	1929	3193.59	1929.02
3198.88	1929.02	3207.78	1929	3222.69	1929	3226.05	1929.09	3231.66	1929.06
3257.77	1929.75	3265.68	1930	3277.59	1930	3289.61	1929.7	3295.52	1929.53
3312.66	1929.29	3318.07	1929.46	3324.77	1929.9	3325.47	1929.91	3332.12	1930.8
3341.48	1932	3355.41	1932.81	3358.94	1933	3368.89	1933.05	3375.75	1933
3383.23	1932.39	3388.45	1932	3389.69	1931.84	3394.34	1931	3397.37	1930.5
3408.64	1929.38	3411.73	1929.55	3416.82	1929.96	3419.88	1930	3422.65	1930.22
3430.33	1930.61	3435.73	1930.44	3443.32	1930.05	3446.08	1930	3448.89	1929.98
3454.35	1929.97	3458.91	1929.99	3472.68	1930	3486.81	1930.31	3494.9	1930.51
3505.39	1930.73	3514.21	1930.89	3518.1	1931	3528.21	1931	3538.92	1930.74
3552.61	1930.44	3566.62	1930.05	3571.91	1930	3581.3	1929.51	3588.71	1929
3597.51	1928.34	3609.77	1927.47	3613.85	1927.19	3616.92	1927	3628.6	1927
3632.05	1927.38	3641.61	1928.32	3648.71	1929	3651.7	1929.44	3653.49	1929.64
3654.68	1929.7	3657.42	1929.67	3658.97	1929.71	3661.32	1929.7	3664.47	1929.61
3670.39	1929.53	3673.65	1929.39	3675.44	1929.38	3677.23	1929.04	3685.31	1929.03
3692.35	1929	3707.66	1929	3711.03	1929.02	3720.66	1929.03	3722.66	1929.05
3733.44	1929.09	3739.66	1929.07	3743.68	1929.07	3757.3	1929	3762.76	1928.79
3774.58	1928.4	3783.03	1928	3787.71	1927.68	3798.04	1927	3828.69	1927
3835.64	1927.13	3837.6	1927.19	3851.89	1927.45	3859.66	1927.57	3863.92	1927.79
3868.72	1928	3889.3	1928	3912.79	1927.44	3917.6	1927.31	3926.61	1927.17
3930.82	1927.12	3935.99	1927.2	3939.35	1927.23	3944.53	1927.37	3966.41	1927.98
3967.77	1928.04	3980.1	1928.7	3982.32	1928.75	3993.31	1928.96	3997.65	1929.05
4001.28	1929.15	4003.29	1929.24	4013.38	1929.49	4018.58	1929.61	4036.32	1929.22
4036.38	1929.21	4048.76	1928.65	4062.38	1928	4073.57	1927.55	4085.65	1927.49
4095.92	1927.47	4102.48	1927.7	4107.46	1928	4129.04	1929	4137.46	1929.02
4150.33	1929.06	4153.58	1929.06	4172.3	1929	4210.71	1928.99	4262.31	1928.99
4277.94	1928.47	4278.25	1928.47	4285.9	1928	4297.24	1927.07	4299.7	1926.89
4310.44	1926	4325.15	1925.27	4330.16	1925	4332.78	1925	4338.55	1925.27
4359.05	1926	4372.72	1926.04	4384.42	1926.08	4390.44	1926.11	4393.02	1926.11
4398.97	1926.14	4407.92	1926.12	4424.75	1926.21	4429.74	1926.26	4437.37	1926.37
4438.97	1926.24	4441.28	1926	4443.45	1926	4450.99	1926.46	4453.69	1926.66
4459.43	1927	4522.09	1927	4555.96	1926.23	4566.29	1926	4586.66	1926
4598.51	1927	4691.68	1927	4695.13	1926.86	4708.43	1926.22	4712.68	1926
4729.44	1926	4745.36	1925.99	4754.07	1925.99	4763.86	1926	4790.89	1926
4800.83	1926.38	4806.71	1926.43	4814.79	1926.52	4824.37	1926.68	4829.22	1926.77
4845.2	1927	4870.34	1927	4873.87	1926.97	4879.71	1926.88	4914.5	1926.64
4940.58	1926.66	4944.4	1926.81	4948.73	1927	4966.77	1927	5002.46	1927.01
5029.46	1927.01	5031.86	1927	5049.42	1927.01	5055.23	1927.02	5056.44	1927
5080.61	1927	5082.23	1927.04	5084.16	1927	5094.82	1926	5101.8	1925.41
5106.34	1925	5118.05	1924.98	5123.86	1924.99	5131.78	1924.99	5135.4	1925
5137.54	1924.98	5150.58	1924.97	5155.3	1924.99	5170.5	1924.99	5176.39	1925
5193.5	1925.01	5209.5	1925	5222.12	1925	5227.11	1925.3	5236.96	1925.96
5259.98	1926.65	5269.02	1926.91	5273.43	1927	5279.69	1927.01	5288.82	1927.01
5292.87	1927	5303.18	1927	5318.71	1927.01	5320.14	1927	5345.36	1926.99
5374.15	1926.99	5386.53	1927	5404.16	1927	5404.39	1927.12	5407.26	1928
5408.88	1928.18	5415.39	1928.57	5422.25	1929	5424.42	1929.2	5428.86	1929.66
5429.82	1929.69	5430.85	1929.8	5441.05	1929.94	5442.36	1930	5474.94	1930
5478.98	1929.79	5498.03	1929	5502.44	1928.99	5521.66	1928.09	5530.16	1927.63
5541.98	1927	5552.54	1926.32	5557.85	1926	5576.3	1926	5586.02	1926.45
5591.42	1926.61	5602.8	1926.98	5608.85	1927	5615.53	1927.14	5619.52	1927.04
5619.93	1927.09	5624.33	1927.97	5626.76	1928	5630.88	1928.48	5634.83	1929
5641.14	1930	5642.07	1930.07	5656.75	1930.96	5664.18	1931.34	5677.36	1932
5677.68	1932	5680.35	1933.28	5682.27	1934	5683.86	1934.52	5688.74	1936
5691.62	1937.08	5693.71	1937.29	5695.42	1937.33	5699.03	1936.82	5700.38	1936.77
5703.82	1938.27	5708.6	1940.18	5709.11	1940.41	5709.97	1940.63	5710.37	1940.91
5712.73	1941.97	5713.52	1942.09	5713.94	1941.97	5714.68	1941.49	5715.42	1941.27
5717.78	1941.18	5719.21	1940.95	5719.63	1940.76	5721.01	1939.58	5724.72	1938
5725.84	1937.28	5726.85	1936.82	5728.81	1937	5729.42	1937	5732.6	1937.3
5735.38	1937.82	5742.43	1938	5745.12	1938.42	5746.14	1939.04	5746.82	1939.34
5747.83	1939.63	5749.92	1939.97	5751.84	1939.99	5754.56	1939.73	5756.19	1939.67
5757.79	1939.78	5761.44	1940.23	5764.42	1940.52	5768.36	1940.77	5774.89	1940.97
5777.04	1941.14	5780.64	1941.96	5785.75	1942	5786.81	1942.07	5798.07	1943
5812.88	1943	5819.6	1943.96	5821.63	1944.22	5828.6	1945	5839.33	1945

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	5839.33	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	5839.33	121.55	121.55	121.55	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1929.90	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.15	Wt. n-Val.		0.040	
W.S. Elev (ft)	1929.75	Reach Len. (ft)	121.55	121.55	121.55
Crit W.S. (ft)		Flow Area (sq ft)		7136.71	
E.G. Slope (ft/ft)	0.002863	Area (sq ft)		7136.71	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3594.65	Top Width (ft)		3594.65	
Vel Total (ft/s)	3.14	Avg. Vel. (ft/s)		3.14	
Max Chl Dpth (ft)	4.78	Hydr. Depth (ft)		1.99	
Conv. Total (cfs)	418631.3	Conv. (cfs)		418631.3	
Length Wtd. (ft)	121.55	Wetted Per. (ft)		3596.67	
Min Ch El (ft)	1924.97	Shear (lb/sq ft)		0.35	
Alpha	1.00	Stream Power (lb/ft s)	5839.33	0.00	0.00
Frctn Loss (ft)	0.34	Cum Volume (acre-ft)		1847.30	
C & E Loss (ft)	0.00	Cum SA (acres)		867.81	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -9247.95

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1935.5	18.07	1935.43	46.74	1935.31	49.08	1935.31	54.32	1935.28
56.28	1935.28	63.38	1935.25	84.44	1935.17	87.94	1935.15	104.87	1935.09
126.03	1935	179.01	1934.75	190.72	1934.7	199.86	1934.67	225.41	1934.56
229.01	1934.54	274.51	1934.33	323.01	1934.09	437.18	1933.52	445.54	1933.47
457.88	1933.42	459.07	1933.41	476.44	1933.33	476.55	1933.32	482.77	1933.3
491.56	1933.25	582.65	1932.81	590.89	1932.79	613.72	1932.72	632.12	1932.66
645.64	1932.62	676.27	1932.48	713.31	1932.3	720.95	1932.27	741.15	1932.17
790.05	1931.95	799.65	1931.9	803.09	1931.89	828.25	1931.77	883.77	1931.51
896.01	1931.45	923.12	1931.3	960.57	1931.11	966.71	1931.07	972.01	1931.05
974.48	1931.03	983.35	1930.99	1000.76	1930.9	1001.35	1930.89	1040.77	1930.68
1052.51	1930.62	1066.05	1930.54	1075.08	1930.5	1075.61	1930.49	1082.81	1930.46
1089.13	1930.42	1095.78	1930.39	1102.01	1930.35	1114.55	1930.29	1117.29	1930.27
1129	1930.21	1138.13	1930.21	1144.28	1930.2	1150.34	1930.18	1162.93	1930.16
1174.16	1930.13	1203.08	1930.08	1209.99	1930.06	1214.93	1929.31	1216.52	1929
1339.41	1929	1360.35	1929.42	1366.77	1929.53	1386.63	1929.99	1386.83	1930
1410.66	1930	1411.46	1929.99	1418.64	1929.99	1423.77	1929.98	1441.71	1930
1455.47	1930	1467.12	1929.96	1474.56	1929.97	1480.63	1930	1494.57	1930
1501.37	1929.97	1507.59	1929.92	1510.73	1929.94	1536.34	1929.45	1539.38	1929.4
1556.34	1929.01	1558.77	1929	1761.06	1929	1770.11	1929.02	1787.22	1929
1807.93	1929	1826.88	1929.02	1866.25	1929.02	1880.6	1929.2	1888.81	1929.21
1896.57	1929.23	1917.44	1929.27	1931.52	1929.29	1943.55	1929.33	1956.07	1929.38
1968.03	1929.41	2029.22	1929.83	2032.81	1929.86	2049.26	1929.88	2052.11	1929.84
2078.22	1929.44	2090.87	1929.22	2104.01	1929	2111.26	1928.61	2122.04	1928
2126.18	1927.56	2130.18	1927	2136.87	1926	2210.54	1926	2211.83	1926.01
2230.91	1926.32	2271.66	1927	2360.54	1927	2361.08	1926.99	2372.14	1926.98
2393.2	1926.98	2410.91	1926.99	2423.75	1926.99	2436.19	1927	2500.03	1927
2528.03	1927.28	2532.37	1927.32	2595.11	1928	2611.68	1928	2614.21	1927.95
2629.89	1927.66	2639.26	1927.66	2641.5	1927.61	2649.94	1927.6	2651.44	1927.57
2658.84	1927.56	2661.17	1927.52	2666.81	1927.38	2671.2	1927.29	2674.5	1927.25
2680.35	1927.15	2683.68	1927.13	2687.64	1927.13	2691.24	1927.26	2710.78	1927.99
2715.83	1928	2720.12	1927.89	2726.12	1927.94	2730.67	1927.94	2732.93	1927.92
2745.51	1927.74	2748.44	1927.72	2756.18	1927.61	2760.47	1927.59	2762.02	1927.57
2782.35	1927.99	2785.4	1928	2799.38	1928	2808.54	1928.21	2810.47	1928.19
2818.19	1928.36	2833.88	1928.41	2835.55	1928.46	2858.46	1928.99	2862.5	1928.99
2906.6	1928.15	2912.48	1928.08	2920.87	1928	2924.8	1927.91	2932.81	1927.66
2948.32	1927.19	2953.73	1927	2962.06	1926.93	2965.84	1926.96	2969.07	1926.97
2971.87	1927	2977.37	1928	2978.77	1928.24	2981.17	1928.56	2982.14	1928.66
2983.73	1928.7	2984.75	1928.65	2986.53	1928.45	2988.03	1928.31	2990.13	1928
2996.09	1927	2998.39	1926.98	3009.27	1926.26	3011.58	1926.19	3014.44	1926.25
3019.81	1926.41	3032.29	1927	3088.71	1927	3094.17	1927.29	3098.22	1927.54
3113.34	1928.42	3123.44	1929	3125.94	1929.11	3141.32	1930	3149.64	1930.68
3153.09	1931	3158.24	1931.32	3168.96	1932	3181.08	1932.05	3189.51	1932.07
3210.48	1932	3218.21	1931.6	3230.51	1931	3240.27	1930.62	3257.6	1930
3268.51	1930	3282.19	1930.88	3284.92	1931	3286.67	1931.14	3288.56	1931.23
3295.74	1931.41	3299.68	1931.56	3301.96	1931.67	3306.09	1931.91	3307.24	1932
3313.05	1932.04	3320.5	1932	3327.37	1931.62	3343.2	1931	3343.31	1931
3354.25	1930.52	3365.81	1930	3379.24	1929.98	3398.62	1929.98	3409.62	1929.99
3410.8	1930	3412.74	1929.96	3414.41	1929.98	3420.92	1929.85	3431.61	1929.57
3441.59	1929.46	3445.95	1929.36	3449.64	1929.31	3454.72	1929.22	3457.15	1929.2
3463.17	1929.08	3465.64	1929.08	3476.56	1929.89	3477.65	1929.93	3483.15	1929.96
3489.57	1929.97	3493.02	1929.87	3498.88	1929.82	3515.03	1929.65	3530.4	1929.44

3541.39	1929.27	3542.43	1929.26	3548.4	1929.34	3560.25	1929.51	3561.67	1929.51
3566.09	1929.59	3566.29	1929.58	3571.64	1929.6	3571.78	1929.59	3579.19	1929.48
3595	1929.13	3600.36	1929	3621.88	1928.32	3628.79	1928	3652.46	1927.43
3656.57	1927.34	3660.07	1927.25	3670.81	1927	3693.16	1927	3694.17	1927.24
3702.27	1928	3704.2	1928.42	3710.46	1929.42	3714.04	1930	3716.34	1930.29
3718.63	1930.28	3721.23	1930.19	3723.39	1930	3732.14	1929.08	3732.91	1929.02
3736.09	1928.94	3742.86	1928.83	3744.94	1928.78	3756.41	1928	3770.73	1927.57
3772.4	1927.56	3795.87	1927.08	3808.81	1927.09	3815.07	1927.09	3819.99	1927.25
3835.65	1927.7	3838.23	1927.77	3839.63	1927.83	3844.04	1927.89	3848.54	1928
3860.5	1928	3862.83	1928.03	3876.24	1928.06	3878	1928.1	3897.11	1928.64
3898.71	1928.66	3904.23	1928.81	3909.41	1929	3931.99	1929	3937.46	1928.94
3943.76	1928.88	3988.59	1928.58	4011.04	1928.44	4014.02	1928.41	4023.77	1928.75
4030.17	1928.99	4032.1	1928.98	4053.42	1928.74	4057.52	1928.57	4063.18	1928.32
4069.49	1928	4075.31	1927.84	4079.67	1927.76	4089.08	1927.53	4103.87	1927.31
4110.5	1927.17	4119.3	1927	4128.61	1927	4145.48	1927.67	4151.37	1927.67
4153.62	1927.68	4164.66	1927.79	4168.78	1927.82	4177.18	1928	4195.62	1928
4197.18	1927.8	4206.91	1927.65	4209.38	1927.63	4218.57	1927.5	4223.04	1927.45
4228.32	1927.36	4229.57	1927.35	4235.23	1927.26	4236.91	1927.26	4249.17	1927.09
4254.63	1927.01	4259.44	1927	4265.12	1926.72	4281.36	1926.11	4284.42	1926
4298.57	1925.99	4305.01	1925.99	4313.39	1926	4432.12	1926	4441.82	1926.27
4454.11	1926.6	4461.96	1926.72	4475.05	1926.86	4487.13	1926.97	4488.4	1927
4649.71	1927	4665.71	1926.09	4668.57	1926.07	4672.23	1926	4703.51	1926
4717.86	1925.44	4727.25	1925.09	4729.45	1925.04	4741.25	1925.04	4753.14	1925.03
4755.46	1925.02	4757.57	1925.08	4761.46	1925.24	4779.19	1926	4811.55	1926
4827.69	1926.18	4831.36	1926.19	4863.61	1926.16	4898.62	1926.12	4906.74	1926
4972.73	1926	4981.91	1926.1	4986.18	1926.06	4988.25	1926	4994.38	1925.99
4996.19	1926	5000.33	1926.11	5012.83	1926.42	5023.48	1926.6	5026.08	1926.68
5029.42	1926.73	5033.98	1926.99	5034.94	1927	5044.45	1927.01	5052.34	1927.01
5066.45	1927	5072.08	1926.28	5083.94	1925	5096.44	1924.6	5105.57	1924.38
5109.97	1924.29	5116.78	1924.22	5121.29	1924.19	5123.84	1924.19	5128.27	1924.21
5134.36	1924.26	5143.5	1924.44	5170.12	1925	5175.69	1925	5178.41	1925.1
5204.53	1926	5205.03	1926	5276.9	1926.94	5279.83	1926.96	5282.55	1927
5412.86	1927	5415.91	1927.6	5417.86	1928	5423.09	1929	5427.67	1929.62
5429.81	1930	5442.2	1930	5449.79	1930.41	5451.19	1930.51	5454.78	1930.73
5459.74	1930.97	5461.65	1931	5465.41	1931	5473.01	1930.91	5474.5	1930.87
5476.55	1930.77	5484.08	1930.37	5487.44	1930.18	5490.65	1930.07	5491.23	1929.99
5494.13	1929.68	5501.13	1929	5509.37	1928.22	5512.72	1927.92	5516.68	1927.66
5526.33	1927	5530.75	1926.66	5537.03	1926	5579.65	1926	5586.46	1925.99
5592.2	1925.99	5593.87	1926	5599.9	1927	5606.78	1928	5611.18	1928.66
5613.57	1929	5615.89	1929.22	5623.09	1930	5636.97	1930.87	5638.13	1931
5639.4	1931.35	5639.9	1931.56	5642.96	1933	5643.91	1933.42	5645.67	1934
5649.84	1935	5651.36	1935.41	5656.48	1936.67	5665.33	1938.82	5670	1940
5673.54	1940.94	5677.28	1942	5681.06	1942.7	5682.76	1943	5689.79	1944
5697.02	1945	5700.86	1945.05	5702.71	1945.09	5704.87	1945.08	5710.27	1945.08
5714.8	1945.12	5716.56	1945.12	5720.48	1945.19	5729.86	1945.01	5734.19	1944.7
5742.81	1944	5744.16	1943.88	5745.61	1943.81	5749.48	1943.54	5760.88	1943
5785.67	1943	5788.15	1943.15	5802.98	1944	5817.96	1945	5823.55	1945.31

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	5823.55	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	5823.55	116.51	116.51	116.51	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1929.56	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.15	Wt. n-Val.		0.040	
W.S. Elev (ft)	1929.41	Reach Len. (ft)	116.51	116.51	116.51
Crit W.S. (ft)		Flow Area (sq ft)		7234.07	
E.G. Slope (ft/ft)	0.002761	Area (sq ft)		7234.07	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3618.24	Top Width (ft)		3618.24	
Vel Total (ft/s)	3.10	Avg. Vel. (ft/s)		3.10	
Max Chl Dpth (ft)	5.22	Hydr. Depth (ft)		2.00	
Conv. Total (cfs)	426335.1	Conv. (cfs)		426335.1	
Length Wtd. (ft)	116.51	Wetted Per. (ft)		3620.20	
Min Ch El (ft)	1924.19	Shear (lb/sq ft)		0.34	
Alpha	1.00	Stream Power (lb/ft s)	5823.55	0.00	0.00
Frctn Loss (ft)	0.33	Cum Volume (acre-ft)		1827.25	
C & E Loss (ft)	0.00	Cum SA (acres)		857.74	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -9364.46

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1935.11	5.48	1935.1	49.16	1934.95	57.29	1934.92	67.01	1934.87
94.43	1934.76	102.86	1934.72	115.11	1934.67	126.77	1934.63	129.63	1934.61

151.85	1934.53	156.99	1934.5	159.19	1934.5	164.6	1934.47	168.81	1934.46
184.66	1934.39	186.26	1934.39	197.98	1934.34	218.12	1934.26	232.49	1934.2
248.27	1934.13	292.24	1933.92	303.05	1933.88	347.02	1933.69	391.52	1933.48
448.39	1933.19	547.16	1932.69	554.86	1932.66	572.26	1932.57	592.19	1932.47
609.56	1932.39	685.9	1932.02	686.49	1932.01	695.19	1931.99	720.97	1931.9
741.75	1931.84	757.04	1931.79	821.8	1931.49	821.96	1931.48	853.27	1931.34
877.16	1931.22	889.82	1931.17	890.35	1931.16	897.4	1931.13	911.99	1931.06
930.16	1930.98	982.67	1930.73	996.22	1930.66	1026.27	1930.5	1038.48	1930.43
1055.54	1930.34	1056.47	1930.34	1077.57	1930.22	1083.13	1930.2	1091.3	1930.15
1094.05	1930.14	1104.14	1930.08	1137.31	1929.9	1143.96	1929.87	1150.2	1929.83
1164.47	1929.76	1179.8	1929.67	1187.06	1929.64	1200.6	1929.56	1209.88	1929.51
1292.81	1929	1368.17	1929	1376.82	1929.14	1380.96	1929.15	1387.48	1929.18
1426.81	1929.07	1449.26	1929	1498.87	1929	1513.36	1928.9	1521.04	1928.88
1535.27	1928.79	1545.57	1928.72	1552.45	1928.72	1553.44	1928.71	1561.8	1928.69
1567.21	1928.67	1576.81	1928.61	1587.76	1928.56	1620.02	1928.55	1652.38	1928.57
1655.62	1928.53	1659.6	1928.5	1669.62	1928.41	1679.04	1928.37	1687.68	1928.31
1693.79	1928.31	1698.56	1928.32	1714.73	1928.21	1722.89	1928.16	1735.14	1928.18
1745.2	1928.19	1768.22	1928.19	1774.35	1928.22	1782.48	1928.25	1795.65	1928.26
1805.99	1928.24	1820.1	1928.2	1823.05	1928.21	1839.73	1928.3	1847.99	1928.31
1882.37	1928.27	1895.24	1928.3	1925.73	1928.63	1932.43	1928.78	1943.76	1929
2061.39	1929	2063.08	1928.99	2068.71	1928.99	2074.84	1929	2075.66	1928.95
2077.74	1928.89	2079.66	1928.79	2091.86	1928	2093.16	1927.89	2094.37	1927.83
2103.89	1927	2106.79	1926.31	2108.9	1926	2211.1	1926	2220.62	1926.21
2223.18	1926.25	2238.75	1926.53	2247.28	1926.67	2256.51	1926.78	2261.63	1926.82
2265.92	1926.84	2276.48	1926.79	2277.14	1926.78	2302.55	1926.89	2304.56	1926.91
2309.18	1926.86	2314.77	1926.77	2323.15	1926.62	2353.23	1926	2427.94	1926
2430.92	1926.1	2433.05	1926.14	2435.71	1926.24	2451	1926.97	2461.43	1927
2549.34	1927	2574.77	1927.22	2582.6	1927.26	2601.78	1927.26	2621.51	1927.25
2631.61	1927.32	2640.4	1927.37	2654.94	1927.38	2669.59	1927.38	2677.74	1927.22
2685.34	1927.02	2689.29	1927	2734.19	1927	2751.59	1927.38	2785.34	1928
2787.48	1928.01	2799.86	1928.18	2808	1928.28	2819.59	1928.51	2847.81	1928.75
2868.93	1928.97	2879.08	1929	2894.87	1929.02	2900.49	1929.02	2911.67	1929
2928.83	1928.4	2938.33	1928	2943.84	1927.63	2944.63	1927.59	2959.04	1927
2964.76	1926.83	2989.97	1926	2994.06	1925.98	2997.21	1926	3016.74	1926.59
3029.92	1927	3033.53	1927.26	3043.43	1928	3054.89	1929.38	3057.84	1929.71
3063.38	1930.27	3070.45	1931	3077.43	1931.47	3083.36	1932	3120.82	1932
3121.99	1931.96	3127.41	1931.72	3135.94	1931.28	3138.49	1931.24	3144.29	1931.09
3147.35	1931.13	3151.33	1931.13	3154.15	1931.26	3158.89	1931.33	3161.32	1931.41
3164.77	1931.59	3167.02	1931.69	3173.01	1932	3181.28	1932.29	3186.05	1932.42
3190.93	1932.5	3204.47	1932.68	3227.66	1933	3296.89	1933	3309.73	1932
3318.77	1931	3321.97	1930.8	3324.38	1930.68	3332.36	1930.22	3338.61	1930
3356.76	1930	3368.22	1929.98	3369.55	1929.97	3379.42	1929.99	3386.13	1929.99
3388.26	1930	3402.82	1930.01	3433.77	1930.01	3434.46	1930	3453.98	1930
3459.87	1929.71	3464.67	1929.52	3466.74	1929.46	3473.22	1929.32	3474.85	1929.39
3477.52	1929.24	3481.17	1929.33	3495.12	1929.03	3509.65	1929.04	3533.65	1929.39
3539.78	1929.21	3543.4	1929.13	3545.56	1929.1	3547.91	1929.01	3554.66	1929.01
3562.26	1929	3573.06	1928.5	3588.27	1928	3598.41	1927.63	3599.58	1927.62
3601.17	1927.56	3614.48	1927.28	3626.49	1927.01	3634.21	1927	3646.4	1926
3656.7	1926	3658.64	1926.69	3661.18	1927.4	3663.16	1928	3666.91	1929
3670.77	1930	3674.79	1931	3682.32	1931	3685.24	1930.57	3692.53	1929.53
3695.78	1929	3697.01	1928.83	3702.68	1928	3703.68	1927.88	3712.4	1927
3714.24	1926.96	3728.6	1926.01	3750.34	1926.01	3769.26	1926	3833.58	1926
3839.85	1926.21	3846.21	1926.41	3863	1927	3891.93	1927	3899.23	1927.19
3912.44	1927.32	3918.27	1927.28	3938.94	1927.26	3940.21	1927.27	3944.63	1927.23
3947.67	1927.23	3956.59	1927.34	3961.4	1927.42	3968.22	1927.55	3991.65	1927.96
3993.73	1928	4003.94	1928.45	4013.72	1929	4022.05	1929.5	4027.18	1929.67
4029.93	1929.73	4031.49	1929.73	4034.12	1929.65	4036.21	1929.54	4039.94	1929.3
4043.88	1929	4048.65	1928.58	4055.48	1928	4120.79	1928	4140.18	1928.47
4148.28	1928.66	4150.15	1928.69	4154.37	1928.7	4158.12	1928.65	4169.98	1928.35
4178.58	1928	4187.24	1927.98	4188.21	1927.99	4193.55	1927.99	4211.07	1928.04
4216.95	1928.05	4222.74	1928.07	4242.81	1928	4243.35	1927.98	4259.26	1927
4263.09	1926.68	4270.73	1926	4284.22	1925.53	4292.08	1925.25	4294.79	1925.19
4301.51	1925	4309.11	1925.01	4318.45	1925.01	4324.79	1925.02	4338.25	1925.02
4354.13	1925	4383.81	1925	4415.17	1925.7	4418.05	1925.76	4428.23	1926
4467.14	1926	4485.59	1927	4573.14	1927	4579.74	1926.97	4612.47	1926.76
4622	1926.67	4644.97	1926.43	4651.18	1926.13	4654.42	1926	4701.02	1926
4714.5	1926.82	4716.38	1926.81	4718.65	1926.84	4720.24	1926.83	4729.72	1926.44
4739.03	1926	4758.07	1926	4758.88	1925.99	4768.12	1925.99	4769.55	1925.98
4785.55	1925.69	4801.91	1925.41	4805.38	1925.38	4812.44	1925.44	4822.65	1925.55
4825.48	1925.51	4827	1925.51	4832.95	1925.66	4840.46	1926	4924.96	1926
4937.03	1925.77	4940.71	1925.75	4957.62	1925.43	4964.86	1925.3	4967.25	1925.27
4970.69	1925.2	4977.08	1925.27	4998.8	1925.68	5009.16	1926	5013.76	1926.28
5024.42	1927	5045.68	1927	5055.3	1926.37	5062.33	1926	5075.95	1925.18
5078.55	1925	5104.73	1924.9	5109.05	1924.88	5135.69	1924.99	5139.79	1925
5144.6	1925.38	5148.84	1925.68	5152.66	1925.92	5153.56	1926	5169.4	1926
5175.88	1925.93	5181.58	1925.94	5188.03	1925.97	5188.43	1926	5222.37	1926
5228.7	1926.08	5252.07	1926.39	5264.63	1926.55	5274.99	1926.45	5290.87	1926.31
5292.88	1926.19	5294.37	1926.25	5301.02	1926.64	5305.72	1926.99	5306.13	1927
5397.82	1927	5403.02	1926.8	5404.71	1926.79	5410.24	1926.63	5413.65	1926.52
5421.38	1926.32	5428.56	1926	5435.25	1926	5440.42	1926.9	5446.41	1928
5448.63	1928.52	5449.7	1928.73	5451.66	1929	5454.21	1929.18	5462.03	1929.77
5465.91	1930.09	5470.75	1930.53	5473.7	1930.82	5475.59	1930.95	5476.31	1930.96
5477.76	1930.9	5479.93	1930.72	5487.52	1930	5490.49	1929.73	5497.12	1929
5498.44	1928.91	5501.03	1928.79	5511.65	1928.22	5515.35	1928.05	5521.43	1927.67
5532.8	1927	5536.47	1926.91	5545.29	1926.36	5552.46	1926	5552.91	1926
5559.74	1925.68	5568.93	1925.46	5572.24	1925.33	5578.08	1925.17	5582.56	1925
5596.98	1925	5601.87	1926	5606.11	1926.88	5606.8	1927	5608.16	1927.03
5610.63	1926.95	5612.01	1926.93	5613.93	1927	5616.13	1928	5618.34	1928.94

5620.45	1930	5622.73	1930.77	5625.41	1931.57	5628.65	1932.5	5633.35	1933.83
5634.15	1934.04	5638.39	1935	5642.39	1936	5653.46	1938.63	5657.8	1939.41
5660.97	1940	5671.46	1942	5678.28	1943.29	5682.08	1944	5686.83	1944.96
5687.56	1945.04	5701.48	1946	5708.87	1946.09	5711.56	1946.11	5717.26	1946.04
5722.48	1946.01	5723.96	1945.99	5726.53	1945.84	5730.22	1945.65	5734.6	1945.41
5741.49	1945	5744.14	1944.73	5752.07	1944.29	5753.66	1944.27	5759.78	1944.39
5765.33	1944.22	5766.75	1944.23	5770.71	1944.37	5771.86	1944.37	5774.78	1944.25
5782.39	1944.41	5788.79	1944.44	5798.44	1944.62	5801.24	1944.68	5809.81	1945

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	5809.81	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	5809.81	121.89	121.89	121.89	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1929.23	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.15	Wt. n-Val.		0.040	
W.S. Elev (ft)	1929.08	Reach Len. (ft)	121.89	121.89	121.89
Crit W.S. (ft)		Flow Area (sq ft)		7193.86	
E.G. Slope (ft/ft)	0.002912	Area (sq ft)		7193.86	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3713.10	Top Width (ft)		3713.10	
Vel Total (ft/s)	3.11	Avg. Vel. (ft/s)		3.11	
Max Chl Dpth (ft)	4.20	Hydr. Depth (ft)		1.94	
Conv. Total (cfs)	415119.6	Conv. (cfs)		415119.6	
Length Wtd. (ft)	121.89	Wetted Per. (ft)		3715.76	
Min Ch El (ft)	1924.88	Shear (lb/sq ft)		0.35	
Alpha	1.00	Stream Power (lb/ft s)	5809.81	0.00	0.00
Frctn Loss (ft)	0.38	Cum Volume (acre-ft)		1807.96	
C & E Loss (ft)	0.00	Cum SA (acres)		847.94	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -9486.35

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1934.78	83.58	1934.43	85.88	1934.43	92.2	1934.4	133.12	1934.26
137.1	1934.25	142.1	1934.22	144.28	1934.22	153.72	1934.17	157.8	1934.16
167.67	1934.11	171.25	1934.1	178.82	1934.06	183.17	1934.05	186.19	1934.03
190.44	1934.02	209.31	1933.94	217.85	1933.9	244.28	1933.8	256.51	1933.75
259.09	1933.73	289.98	1933.61	305.45	1933.54	328.88	1933.45	345.61	1933.38
348.76	1933.37	364.01	1933.29	403.1	1933.1	407.29	1933.09	415.6	1933.05
431.55	1932.99	450.67	1932.91	466.52	1932.84	471.46	1932.81	506.39	1932.64
571.91	1932.31	655.05	1931.89	663.77	1931.84	683.46	1931.75	706.04	1931.63
709.9	1931.62	787.13	1931.23	787.79	1931.23	826.31	1931.11	866.64	1930.97
905.43	1930.79	923.92	1930.7	928.85	1930.68	938.42	1930.63	941.88	1930.62
946.33	1930.59	958.83	1930.54	963.74	1930.51	984.41	1930.41	994.22	1930.37
1003.06	1930.32	1019.24	1930.25	1030.34	1930.19	1072.16	1930	1094.75	1929.88
1127.82	1929.7	1132.41	1929.68	1151.09	1929.58	1151.55	1929.57	1161.2	1929.52
1164.26	1929.51	1170.58	1929.47	1172.04	1929.47	1177.94	1929.43	1181.3	1929.42
1193.27	1929.35	1237.49	1928.29	1242.26	1928.31	1291.17	1928.65	1339.61	1928.99
1342.04	1929	1356.49	1928.99	1375.25	1928.99	1383.79	1928.77	1389.18	1928.77
1392.84	1928.76	1403.51	1928.65	1412.93	1928.57	1420.65	1928.52	1428.56	1928.38
1430.8	1928.33	1442.17	1928.19	1453.37	1928	1455.95	1927.98	1458.57	1927.98
1509.69	1927.86	1550.77	1927.79	1561.51	1927.78	1592.26	1927.78	1600.77	1927.77
1607.98	1927.76	1620.42	1927.76	1621.57	1927.75	1640.79	1927.7	1669.33	1927.63
1684.16	1927.59	1689.54	1927.58	1699.64	1927.55	1704.15	1927.53	1711.79	1927.51
1715.31	1927.49	1751.48	1927.24	1784.9	1927	1807.32	1927	1911.22	1927.89
1923.62	1928	1955.9	1928.38	2009.24	1929	2035.24	1929	2035.84	1928.99
2043.55	1928.61	2054.86	1928	2056.84	1927.82	2057.96	1927.61	2069.27	1926
2228.19	1926	2242.37	1926.46	2244.04	1926.51	2252.37	1926.66	2257.72	1926.74
2259.51	1926.8	2260.99	1926.8	2264.85	1926.63	2278.48	1926	2443.95	1926
2444.29	1926.01	2468.9	1926.29	2490.62	1926.46	2502.2	1926.54	2506.6	1926.6
2508.3	1926.6	2522.04	1926.82	2523.72	1926.83	2534.51	1927	2593.49	1927
2599.36	1927.37	2614.88	1928	2617.53	1928.01	2639.03	1928.01	2652.66	1928.03
2662.17	1928.06	2669.72	1928.04	2674.14	1928.05	2679.99	1928.08	2685.16	1928.09
2703.95	1928.65	2712.1	1928.86	2716.89	1928.94	2721.25	1928.94	2723.6	1928.91
2725.63	1928.85	2731.54	1928.72	2738.95	1928.52	2753.75	1928	2755.26	1927.92
2762.9	1927.46	2768.53	1927.11	2775.44	1927	2804.12	1927	2807.36	1927.1
2831.76	1927.97	2833.54	1928	2842.89	1928.23	2867.81	1928.3	2888.96	1928.35
2896.61	1928.13	2900.42	1928.01	2901.47	1928	2912.67	1927.18	2916.01	1927
2923.04	1926.38	2928.74	1926	2933.18	1925.61	2940.44	1925	2948.63	1925
2949.12	1925.08	2953.3	1926	2955.24	1926.45	2957.78	1927	2962.27	1928
2966.23	1928.84	2969.89	1929.37	2974.41	1929.9	2975.61	1930	2995.64	1930
3014.37	1929	3021.94	1928.63	3024.4	1928.54	3030.72	1928.35	3035.57	1928.16
3043	1928	3067.23	1928	3080.64	1928.16	3088.05	1928.19	3090.11	1928.21
3094.66	1928.31	3095.62	1928.32	3099.5	1928.45	3113.41	1929	3116.35	1929.15

3125.87	1929.46	3126.04	1929.45	3131.46	1929.59	3143.17	1929.98	3143.46	1930
3161.99	1930	3165.6	1929.62	3172.02	1929.12	3173.32	1929	3175.14	1929
3183.75	1928.6	3191.67	1928.41	3200.48	1928.32	3205.47	1928.31	3208.43	1928.34
3213.14	1928.52	3215.29	1928.54	3218.46	1928.61	3225.07	1928.93	3226.69	1929
3238.95	1929.93	3244.92	1930.26	3257.44	1931	3263.88	1931.71	3270.52	1932
3283.72	1932	3294.36	1931.28	3300.7	1930.84	3313.01	1930	3313.93	1929.93
3330.27	1928.76	3333.33	1928.75	3341.18	1928.48	3352.25	1928.04	3354.21	1928
3360.32	1928	3365.18	1928.16	3365.63	1928.16	3371.06	1928.3	3374.11	1928.35
3380.27	1928.41	3392.29	1928.44	3394.97	1928.42	3401.89	1928.48	3412.42	1928.64
3415.76	1928.64	3427.54	1929	3430.69	1929.09	3453.26	1929.71	3457.49	1929.79
3462.66	1929.86	3471.06	1930	3475.84	1930.01	3484.55	1930.01	3486.6	1930
3492.44	1929.44	3497.19	1929	3498.4	1928.98	3506.07	1928.68	3513.43	1928.44
3515.84	1928.33	3520.14	1928.11	3522.01	1928	3524.3	1927.81	3533.44	1927
3546.22	1927	3551.45	1927.11	3559.98	1927.25	3566.29	1927.34	3569.59	1927.35
3576.56	1927.6	3580.64	1927.66	3584.02	1927.78	3587.55	1928	3597.75	1929.12
3600.73	1929.42	3603.47	1929.63	3605.77	1929.68	3607.61	1929.67	3618.69	1929.28
3620.83	1929.03	3622.71	1929	3625.33	1928.64	3627.64	1928.27	3629.42	1927.86
3630.04	1927.64	3632.87	1927	3635.66	1926.21	3636.59	1926.04	3637.45	1926.01
3639.26	1926.21	3641.29	1926.47	3644.8	1927	3723.64	1927	3726.16	1926.99
3741.1	1926.99	3757.26	1926.98	3785.26	1927	4007.06	1927	4012.58	1927.59
4016.53	1928	4024.53	1928	4040.72	1927.84	4047.23	1927.77	4052.77	1927.7
4062.7	1927.63	4079.25	1927.99	4079.96	1928	4193.29	1928	4194.13	1927.95
4195.33	1927.94	4199.56	1927.79	4209.74	1927.37	4213.64	1927.25	4216.07	1927.19
4217.66	1927.13	4220.7	1927.11	4223.36	1927.02	4228.86	1927.03	4234.68	1927.05
4240.54	1927.03	4242.48	1927	4251.64	1926.66	4260.09	1926.38	4263.15	1926.3
4266.75	1926.18	4272.71	1926	4279.62	1926	4283.43	1925.91	4284.56	1925.9
4291.56	1926	4401.96	1926	4441.81	1925.27	4454.09	1925.01	4454.79	1925
4488.78	1925	4502.09	1925.35	4510.45	1925.46	4514.72	1925.49	4519.76	1925.57
4527.51	1925.6	4532.93	1925.65	4540.83	1925.8	4550.92	1926	4575.87	1926
4576.07	1926.01	4651.93	1926.01	4654.28	1926.04	4684.28	1926.12	4696.31	1926.18
4698.94	1926.12	4706.4	1926	4713.31	1925.99	4729.13	1925.99	4776.16	1925.35
4779.92	1925.32	4783.53	1925.27	4795.43	1925.15	4800.46	1925.12	4811.33	1925
4821.86	1924.99	4852.51	1924.05	4854.4	1924	4855.75	1924	4916.31	1924.99
4916.69	1925	4965.65	1925	4972.62	1925.82	4974.44	1926	4984.92	1926.48
4988.99	1926.56	4992.5	1926.69	4994.21	1926.7	5004.33	1927	5035.78	1927
5038.12	1926.71	5038.73	1926.66	5044.45	1926	5047.14	1925.68	5053.21	1925
5058.91	1924.99	5071.12	1924.99	5100.83	1924.97	5119.57	1924.99	5133.5	1924.99
5138.62	1925.3	5148.61	1926	5152.06	1926.23	5161.96	1927	5174.06	1927
5183.45	1926.57	5186.02	1926.48	5187.81	1926.39	5202.1	1926.01	5202.12	1926
5223.59	1926	5228.98	1925.99	5237.64	1925.99	5243	1926	5290.04	1926
5332.31	1926.47	5350.59	1926.67	5360.25	1926.81	5369.4	1927	5435.07	1927
5437.29	1926.99	5455.14	1926.95	5472.85	1927	5473.13	1927.03	5478.17	1928
5483.58	1928.34	5490.43	1928.7	5493.92	1928.9	5496.47	1929	5504.28	1929
5507.08	1928.87	5518.57	1928	5519.29	1927.95	5521.19	1927.89	5536.28	1927
5541.65	1926.25	5543.53	1926	5551.55	1925	5568.52	1925	5570.96	1925.26
5573.08	1925.52	5577.34	1926	5583.77	1926.76	5586.03	1927	5587.04	1927.63
5587.58	1927.88	5590.5	1929.05	5594.23	1930.29	5596.19	1931	5602.89	1931.87
5605.13	1932.15	5611.19	1933	5613.07	1933.14	5615.4	1933.4	5620.52	1933.84
5622.97	1933.39	5624.69	1933.1	5625.98	1933	5628.73	1932.98	5629.7	1933
5630.6	1933.3	5632.36	1934	5633.62	1934.74	5634.14	1935	5635.37	1935.38
5636.59	1935.61	5638.21	1935.68	5641.37	1935.63	5644.62	1935.93	5652.92	1936.15
5656.02	1936.32	5657.39	1936.51	5658.35	1936.92	5659.56	1937	5661.76	1937.58
5662.99	1938	5664.9	1938.55	5667.93	1938.76	5669.56	1938.98	5670.87	1939.24
5674.34	1940.14	5676.96	1941	5680.17	1941.44	5683.11	1942	5686.23	1942.63
5688.19	1943	5702.14	1943.77	5706.02	1944	5710.27	1944.4	5710.68	1944.47
5726.84	1945	5728.18	1945.04	5730.36	1945.19	5733.26	1945.36	5740.07	1946
5749.36	1945.98	5752.48	1945.98	5757.8	1946	5783.9	1946	5786.59	1945.97

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	5786.59	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	5786.59	99.54	99.54	99.54	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1928.85	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.16	Wt. n-Val.		0.040	
W.S. Elev (ft)	1928.69	Reach Len. (ft)	99.54	99.54	99.54
Crit W.S. (ft)		Flow Area (sq ft)		6972.96	
E.G. Slope (ft/ft)	0.003324	Area (sq ft)		6972.96	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3793.05	Top Width (ft)		3793.05	
Vel Total (ft/s)	3.21	Avg. Vel. (ft/s)		3.21	
Max Chl Dpth (ft)	4.69	Hydr. Depth (ft)		1.84	
Conv. Total (cfs)	388541.7	Conv. (cfs)		388541.7	
Length Wtd. (ft)	99.54	Wetted Per. (ft)		3795.67	
Min Ch El (ft)	1924.00	Shear (lb/sq ft)		0.38	
Alpha	1.00	Stream Power (lb/ft s)	5786.59	0.00	0.00
Frctn Loss (ft)	0.32	Cum Volume (acre-ft)		1788.14	
C & E Loss (ft)	0.00	Cum SA (acres)		837.44	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -9585.89

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1934.46	167.45	1933.76	177.25	1933.72	215.31	1933.59	227.94	1933.54
243.27	1933.47	248.27	1933.44	254.46	1933.42	267.1	1933.36	280.29	1933.31
285.62	1933.28	301.72	1933.22	311.44	1933.18	314.22	1933.16	320.83	1933.14
335.5	1933.08	352.8	1933	357.31	1932.99	366.95	1932.95	367.26	1932.94
393.49	1932.84	405.62	1932.78	411.13	1932.76	456.96	1932.57	460.56	1932.55
477.99	1932.47	511.98	1932.31	532.36	1932.22	566.04	1932.08	584.07	1931.99
589.68	1931.97	619.09	1931.83	693.28	1931.44	770.06	1931.05	788.9	1930.96
792.02	1930.94	817.22	1930.81	820.49	1930.8	839.22	1930.7	885.45	1930.47
896.89	1930.44	928.66	1930.33	954.32	1930.25	973.2	1930.18	1016.08	1929.98
1027.14	1929.92	1032.56	1929.9	1050.97	1929.81	1051.8	1929.8	1068.12	1929.73
1070.96	1929.71	1078.4	1929.68	1080.81	1929.66	1086.89	1929.64	1093.27	1929.6
1105.41	1929.55	1118.47	1929.48	1127.17	1929.44	1172.85	1929.22	1184.93	1929.16
1187.5	1928.44	1200.82	1928.12	1201.54	1928.09	1208.18	1928	1212.66	1928
1225.59	1928.03	1239.91	1928.07	1249.99	1928.09	1260.64	1928.12	1267.5	1928.11
1288.61	1928.1	1300.45	1928.09	1326.54	1928.03	1340.51	1928.06	1343.63	1928
1350.16	1927.99	1356.32	1927.94	1357.86	1927.91	1368.83	1927.62	1380.95	1927.33
1384.84	1927.23	1387.91	1927.18	1390.33	1927.12	1394.25	1927.09	1419.26	1927.32
1420.24	1927.32	1427.06	1927.26	1431.51	1927.28	1443.66	1927.32	1449.57	1927.29
1456.81	1927.31	1462.57	1927.26	1514.77	1927.28	1565.79	1927.29	1580.97	1927.25
1593.05	1927.23	1599.93	1927.23	1600.79	1927.22	1607.41	1927.22	1632.89	1927.2
1634.73	1927.19	1641.03	1927.19	1704.39	1927.03	1714.43	1927	1836.86	1927
1907.43	1927.71	1935.55	1928	1964.09	1928.01	1974.34	1928.02	1981.98	1928.01
2000.64	1928.01	2014.68	1928	2016.9	1927.77	2023.84	1927	2030.03	1926
2037.49	1925.99	2051.09	1925.41	2052.31	1925.37	2056.69	1925.29	2066.34	1925.18
2073.61	1925.07	2078.82	1925	2114.44	1925	2123.83	1925.36	2124.39	1925.36
2139.56	1925.67	2141.22	1925.72	2152.05	1926	2184.23	1926	2186.96	1925.97
2192.03	1925.89	2225.73	1925.82	2254.72	1925.77	2277.07	1926	2426.72	1926
2433.22	1926.08	2434.06	1926.08	2446.61	1926.39	2449.38	1926.44	2453.54	1926.48
2454.28	1926.51	2461.65	1926.54	2463.28	1926.59	2477.21	1926.71	2484.82	1926.78
2487.23	1926.77	2496.87	1926.56	2522.49	1926.01	2523.74	1926	2545.64	1926
2575.68	1926.9	2580.31	1926.89	2582.31	1926.87	2585.4	1926.99	2594.64	1926.98
2608.2	1926.98	2632.38	1927	2651.59	1927	2656.29	1926.99	2666.14	1926.99
2670.54	1926.98	2671.91	1926.99	2688.68	1926.99	2695.38	1927	2701.55	1927
2709.8	1927.01	2722.43	1927.01	2731.42	1927.31	2740.58	1927.45	2746.87	1927.52
2751.77	1927.56	2753.47	1927.59	2769.22	1927.98	2777.12	1928.25	2779.08	1928.18
2786.92	1928.32	2801.02	1928.37	2832.93	1928.72	2848.32	1929	2871.94	1929
2878.02	1928.63	2880.95	1928.44	2888.12	1928	2890.3	1927.83	2898.13	1927
2901.99	1926.57	2907.31	1926	2916.01	1925.39	2920.17	1925	2932.33	1925
2937.32	1925.87	2949	1928	2950.9	1928.45	2953.7	1929	2969.1	1929
2976.43	1928.99	2984.87	1929	3007.54	1929	3014.21	1929.36	3024.75	1930
3059.15	1930	3069.52	1929	3080.05	1928	3082.78	1927.82	3096.39	1927
3100.78	1926.77	3121.87	1926.81	3146.16	1926.89	3150.84	1927	3163.49	1927.01
3184.34	1927.01	3202.47	1927.37	3203.18	1927.37	3205.44	1927.46	3209.01	1927.46
3221.69	1928.05	3230.3	1928.42	3231.76	1928.46	3235.44	1928.61	3236.2	1928.66
3244.01	1929	3268.33	1928.34	3279.41	1928	3293.59	1927.99	3312.47	1927.99
3330.42	1927.07	3332.14	1927	3339.24	1926.99	3343.67	1927	3358.1	1927
3358.34	1926.98	3378.04	1926.8	3394.18	1926.79	3395.32	1926.81	3400.6	1926.83
3404.87	1926.79	3407.99	1926.8	3412.46	1926.78	3416.7	1926.65	3420.18	1926.6
3432.26	1926.17	3437.32	1926	3444.33	1926	3454.11	1926.4	3456	1926.46
3462.03	1926.71	3468.19	1927	3475.54	1927.41	3476.42	1927.45	3480.68	1927.57
3485.33	1927.59	3486.47	1927.61	3490.16	1927.6	3491.87	1927.53	3493.32	1927.43
3494.24	1927.41	3501.13	1927	3511.27	1926.78	3511.77	1926.78	3518.85	1926.64
3520.39	1926.65	3527.45	1926.54	3528.8	1926.55	3534.43	1926.49	3552.01	1926.43
3570.06	1926.35	3571.56	1926.33	3578.12	1926.37	3588.43	1926.52	3592.94	1926.38
3594.79	1926.29	3598.52	1926	3611.21	1926	3617.21	1925.99	3627.16	1926
3633.72	1926	3635.99	1926.08	3648.51	1926.17	3662.05	1926.25	3668.96	1926.1
3676.02	1926	3683.49	1925.87	3684.07	1925.85	3695.69	1925.65	3697.08	1925.61
3704.12	1925.47	3716.63	1925.7	3725.3	1925.93	3737.24	1926	3775.16	1926
3776.67	1926.11	3790.07	1927	3806.17	1927.66	3821.47	1928	3827.36	1928.01
3834.98	1928.01	3839.23	1928.2	3847.83	1928.56	3857.94	1928.49	3868.61	1928.28
3871.41	1928.2	3873.49	1928.17	3878.08	1928	3891.15	1928.01	3896.41	1928
3896.78	1928.02	3902.12	1928.49	3905.11	1928.74	3910.7	1928.73	3912.71	1928.71
3923.54	1928.52	3934.23	1928.2	3940.5	1928	3945.28	1927.88	3954.63	1927.62
3973.53	1927.69	4003.03	1927.98	4005.17	1927.95	4020.44	1927.42	4033.85	1927
4073.74	1927	4094.89	1927.7	4098.11	1927.74	4110.16	1927.99	4112.36	1928
4114.46	1928.15	4124.77	1929	4148.78	1929	4163.64	1928.19	4166.28	1928.05
4171.69	1927.81	4180.08	1927.46	4181.27	1927.49	4188.28	1927.26	4195.07	1927
4201.56	1927	4206.79	1926.99	4222.12	1926.98	4222.47	1926.99	4241.19	1926.99
4264.9	1926.01	4265.23	1926	4277.52	1926	4282.36	1925.99	4288.3	1925.99
4298.24	1926	4322.13	1926	4332.2	1925.99	4341.42	1926	4344.92	1925.81
4345.62	1925.8	4350.65	1925.54	4359.71	1925.03	4365.09	1925.04	4377.75	1925
4398.99	1925	4401.73	1925.03	4404.83	1925.09	4417.7	1925.42	4422.03	1925.55
4424.77	1925.61	4430.41	1925.69	4435.62	1925.82	4442.24	1926	4474.99	1926
4476.78	1925.98	4487.78	1925.89	4492.14	1925.82	4502.51	1925.61	4526.22	1925
4610.53	1925	4640.3	1926	4660.83	1926.61	4665.18	1926.71	4676.2	1926.88
4681.49	1927	4688.29	1927	4691.59	1926.93	4731.02	1926.06	4734.16	1926
4804.49	1926	4817.39	1925.84	4844.09	1925.53	4844.94	1925.5	4855.2	1925.41
4860.42	1925.34	4868.99	1925.17	4874.67	1925	5003.31	1925	5014	1925.53
5023.22	1926	5025.1	1926.03	5032	1926	5039	1925.86	5040.47	1925.78
5044.95	1925.64	5058.76	1925	5077.98	1925	5092.46	1924.99	5116.37	1924.99

5117.1	1925	5136.45	1925	5137.44	1925.07	5151.51	1926	5156.12	1926.45
5162.05	1927	5181.89	1927	5184.54	1926.97	5189.21	1926.87	5195.33	1927
5215.38	1927	5237.71	1926.35	5248.27	1926.08	5250.63	1926	5253.21	1926
5256	1926.03	5265.12	1926.06	5271.29	1926.31	5275.88	1926.31	5281.43	1926.29
5290.51	1926	5360.22	1926	5363.3	1926.07	5382.66	1926.4	5391.74	1926.56
5392.18	1926.56	5406.69	1926.73	5429.06	1927	5469.47	1927	5472.82	1926.86
5494.14	1926	5499.05	1925.94	5504.2	1926	5507.82	1927	5510.97	1927.19
5517.42	1927.1	5524.9	1927.16	5541.76	1927.01	5542.39	1927	5549.89	1926.07
5554.36	1925.46	5557.85	1925	5571.68	1925	5575.36	1925.31	5584.82	1926
5586.32	1926	5588.79	1927	5589.3	1927.18	5591	1928	5595.68	1930
5596.85	1930.13	5602.98	1931	5604.37	1931.17	5613.59	1932.22	5619.73	1933
5627.1	1933.64	5631.45	1934	5637.8	1935	5639.62	1936	5642.16	1937
5644.96	1937.83	5650.61	1939.62	5656.04	1941.36	5658.14	1942	5661.86	1943
5669.16	1943.09	5672.08	1943.08	5678.45	1943.32	5679.36	1943.32	5682.42	1943.24
5686.47	1943.1	5687.85	1943	5688.63	1942.81	5689.19	1942.75	5689.95	1942.79
5691.3	1943	5694.49	1943.19	5698.34	1943.28	5705.26	1943.61	5708.8	1943.72
5711.82	1943.84	5714.55	1944	5731.14	1944.64	5733.48	1944.74	5740.41	1945
5743.25	1945.16	5746.34	1945.26	5762.2	1945.85	5765.7	1946	5778.64	1946

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	5778.64	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	5778.64	161.16	161.16	161.16	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1928.52	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.15	Wt. n-Val.		0.040	
W.S. Elev (ft)	1928.38	Reach Len. (ft)	161.16	161.16	161.16
Crit W.S. (ft)		Flow Area (sq ft)		7280.23	
E.G. Slope (ft/ft)	0.003159	Area (sq ft)		7280.23	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	4067.25	Top Width (ft)		4067.25	
Vel Total (ft/s)	3.08	Avg. Vel. (ft/s)		3.08	
Max Chl Dpth (ft)	3.39	Hydr. Depth (ft)		1.79	
Conv. Total (cfs)	398554.0	Conv. (cfs)		398554.0	
Length Wtd. (ft)	161.16	Wetted Per. (ft)		4069.45	
Min Ch El (ft)	1924.99	Shear (lb/sq ft)		0.35	
Alpha	1.00	Stream Power (lb/ft s)	5778.64	0.00	0.00
Frctn Loss (ft)	0.52	Cum Volume (acre-ft)		1771.85	
C & E Loss (ft)	0.00	Cum SA (acres)		828.45	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -9747.05

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1934.17	246.92	1933.12	251.78	1933.1	257.97	1933.08	293.53	1932.95
298.59	1932.93	301.37	1932.91	305.46	1932.9	307.73	1932.88	309.6	1932.88
319.77	1932.83	324.97	1932.81	330.61	1932.78	351.82	1932.69	360.91	1932.65
361.25	1932.64	372.71	1932.6	390.88	1932.52	398.76	1932.48	405.71	1932.46
408.15	1932.44	412.48	1932.43	435.83	1932.33	443.69	1932.29	445.62	1932.29
448.4	1932.27	452.71	1932.26	464.69	1932.2	471.01	1932.18	497.22	1932.07
510.87	1932.01	514.85	1931.99	545.26	1931.86	567.02	1931.77	576.3	1931.72
583.44	1931.69	590.99	1931.65	626.33	1931.48	627.71	1931.48	636.15	1931.44
637.55	1931.44	640.62	1931.42	652.4	1931.37	654.08	1931.37	656.73	1931.35
681.43	1931.25	708.35	1931.12	732.23	1931	816.38	1930.56	867	1930.3
877.87	1930.24	889.36	1930.19	896.5	1930.15	930.68	1929.98	931.52	1929.97
939.81	1929.93	942.73	1929.92	943.06	1929.91	985.81	1929.7	986.62	1929.69
998.19	1929.66	998.48	1929.65	1033.68	1929.53	1062.14	1929.44	1083.11	1929.36
1130.77	1929.13	1133.9	1929.11	1139.9	1929.09	1151.55	1929.03	1160.27	1928.99
1161.19	1928.98	1176.43	1928.91	1178.9	1928.88	1197.62	1928.63	1243.37	1927.67
1259.54	1927.78	1264.36	1927.79	1269.26	1927.79	1294.24	1927.94	1304.54	1928
1316.55	1928	1319.18	1927.95	1343.82	1927.52	1355.96	1927.2	1362.17	1927
1739.57	1927	1746.9	1926.87	1757.79	1926.7	1769.65	1926.55	1797.19	1926.73
1836.85	1927	1847.79	1927	1870.41	1927.52	1877.51	1927.67	1881.86	1927.77
1882.17	1927.77	1892.56	1928	1905.7	1928.04	1919.58	1928.1	1924.44	1928.09
1943.51	1928	1949.06	1927.59	1956.83	1927	1963.89	1926.41	1967.9	1926
1993.41	1925.38	1994.57	1925.35	2007.37	1925.1	2013.33	1925	2196.33	1925
2209.95	1925.16	2231.33	1925.42	2238.26	1925.5	2264.58	1925.72	2274.73	1925.81
2278.17	1925.87	2286.34	1926	2337.78	1926	2347.44	1925.99	2354.88	1926
2462.78	1926	2478.83	1926.01	2489.17	1926.02	2506.53	1926.02	2509.88	1926.03
2520.38	1926.02	2524.72	1926.03	2535.18	1926.01	2538.31	1926.01	2539.39	1926
2556.39	1926	2565.96	1926.36	2571.17	1926.5	2572.13	1926.51	2576.49	1926.63
2583.95	1926.87	2586.87	1927	2645.86	1927	2656.7	1926.97	2657.51	1926.98
2661.22	1926.98	2663.43	1926.99	2669.95	1926.85	2675.71	1926.77	2678.57	1926.68
2690.38	1926.47	2693.06	1926.4	2698.33	1926.29	2699.11	1926.29	2703.41	1926.24
2708.44	1926.17	2714.11	1926	2759.2	1926	2768.04	1926.16	2777.13	1926.35

2784.97	1926.55	2804.1	1927	2807.44	1927.01	2828.63	1927.04	2835.44	1927.03
2853.02	1927	2865.21	1926.37	2872.85	1926	2887.07	1925.35	2894.28	1925
2920.79	1925	2926.15	1925.54	2927.68	1925.65	2929.2	1925.73	2931.99	1925.84
2934.3	1926	2941.11	1926	2948.1	1925.99	2952.45	1925.99	2955.61	1926
2957.06	1926.03	2962.82	1926.17	2966	1926.19	2970.64	1926.25	2972.49	1926.29
2980.98	1926.42	2986.52	1926.51	2988.23	1926.52	2994.43	1926.61	3008.72	1926.81
3020.72	1927	3025.75	1927	3030.49	1927.07	3033.13	1927.19	3039.34	1927.33
3042	1927.3	3044.19	1927.25	3052.2	1927	3057.94	1927	3067.58	1927.02
3070.22	1927.02	3070.91	1927.01	3081.69	1927.01	3088.63	1927	3095.52	1926.91
3105.12	1926.62	3106.31	1926.58	3118.62	1926.22	3120.95	1926.14	3122.33	1926.11
3126.02	1926	3138.8	1925.53	3139.23	1925.52	3144.85	1925.56	3152.15	1925.92
3154.77	1926	3156.83	1926.16	3167.44	1927	3172.76	1927.63	3174.74	1928
3179.02	1928.77	3180.58	1929	3190.07	1930.32	3194.76	1931	3199.51	1931
3203.76	1930.71	3212.41	1930.13	3216.97	1929.81	3228.33	1929	3232.99	1928.67
3242.28	1928	3253.78	1927.48	3267.98	1927.12	3272.61	1927.01	3273.49	1927.01
3276.64	1927.2	3287.65	1928	3293.64	1928	3298.65	1928.01	3307.62	1928.08
3317.88	1928.05	3327.49	1928.04	3328.33	1928	3331.16	1927.81	3342.89	1927
3347	1926.71	3352.44	1926.51	3362.08	1926.01	3362.86	1926	3364.53	1925.88
3367.79	1925.82	3384.89	1925.32	3391.14	1925.22	3398.58	1925.13	3401.23	1925.11
3404.29	1925.07	3406.61	1925.09	3412.05	1925.17	3415.53	1925.27	3419.49	1925.37
3421.82	1925.44	3431.26	1925.68	3433.76	1925.75	3444.66	1926	3466	1926
3468.09	1925.94	3474.84	1925.76	3488.43	1925.39	3490.79	1925.33	3492.07	1925.31
3496.9	1925.19	3506.67	1925.08	3507.14	1925.07	3520.86	1925.01	3521.56	1925
3580.51	1925	3583.03	1925.05	3588.34	1925.2	3607.85	1926	3622.17	1927
3641.79	1927	3644.54	1926.77	3650.34	1926.3	3653.8	1926	3670.12	1926
3670.34	1925.99	3684.07	1925.64	3687.62	1925.63	3688.58	1925.65	3703.4	1925.73
3723.59	1925.88	3727.44	1926	3794.12	1926	3799.66	1926.01	3806.63	1926.01
3812	1926	3820.28	1926.01	3831.05	1926.01	3832.36	1926	3850.71	1926
3858.81	1926.38	3859.5	1926.38	3880.08	1927	3893.97	1927	3924.39	1926.42
3934.61	1926.23	3960.06	1926.57	3963.78	1926.66	3973.25	1926.9	3976.17	1926.98
3977.9	1927	4107.73	1927	4108.48	1927.01	4142.92	1927.01	4153.53	1927
4230.45	1927	4243.56	1926.99	4246.21	1926.99	4247.75	1927	4257.39	1927
4262.81	1927.01	4265.46	1927.01	4276.8	1927.02	4282.3	1927.02	4289.81	1927.03
4294.55	1927.03	4297.83	1927.04	4306.61	1927.03	4315.57	1927.35	4316.82	1927.35
4320.57	1927.4	4324.46	1927.4	4327.89	1927.39	4334.53	1927.23	4335.4	1927.2
4338.28	1927.25	4341.41	1927	4344.91	1927	4350.76	1926.49	4356.46	1926
4360.75	1926	4367.78	1925.99	4372.37	1926	4382.26	1926	4385.4	1926.02
4386.42	1926.01	4388.5	1926.03	4390.87	1926	4392.65	1925.86	4404.11	1925
4448.12	1925	4452.09	1925.01	4461.28	1925	4464.97	1925.02	4465.22	1925
4714.59	1925	4723.68	1925.41	4725.16	1925.43	4731.9	1925.29	4742.94	1925
4755.44	1925	4756.93	1925.08	4763.42	1925.49	4767.79	1925.66	4768.46	1925.7
4774.72	1925.99	4775.07	1926	4823.7	1926	4829.98	1926.22	4836.06	1926.42
4842.39	1926.28	4844.4	1926.25	4846.24	1926.24	4846.47	1926.22	4857.28	1926.24
4861.42	1926.01	4871.36	1926.01	4878.56	1926	4892.01	1926	4940.53	1925.5
4941.62	1925.48	4953.13	1925.17	4959.23	1925	5200.6	1925	5214.52	1925.42
5220.95	1925.62	5224.05	1925.65	5241.66	1926	5244.22	1925.99	5246.68	1926
5251.38	1926	5273.8	1926.79	5279.89	1927	5282.35	1927	5287.74	1926.89
5291.77	1926.82	5294.88	1926.8	5299.04	1926.74	5306.94	1926.58	5311.98	1926.51
5319.69	1926.36	5330.48	1926	5357.17	1926	5361.86	1926.11	5366.9	1926.04
5371.02	1926.05	5373.81	1926.04	5375.58	1926.05	5378.37	1926.04	5381	1926
5383.97	1926	5384.58	1925.99	5392.48	1925.99	5407.56	1925.98	5420.55	1925.97
5428.48	1925.97	5432.26	1925.98	5467.1	1925.98	5472.46	1926	5558.31	1926
5568.17	1926.02	5576.16	1926	5578.61	1926	5589.1	1925.78	5590.05	1925.8
5593.39	1925.55	5595.85	1926	5598.02	1926.56	5598.58	1926.55	5602.02	1926.61
5605.35	1926.56	5609.06	1926.41	5618.02	1926	5630.87	1925	5644.66	1925
5647.89	1925.83	5648.5	1926	5650.99	1927	5651.21	1927.19	5652.61	1928
5653.42	1928.54	5654.17	1929	5656.28	1929.34	5658.35	1930	5665.75	1930.68
5669.31	1931	5679.52	1931.87	5681.21	1932	5687.06	1932.48	5689.91	1932.69
5693.9	1933	5697.4	1933.35	5698.72	1933.47	5701.41	1933.67	5705.37	1934
5707.48	1934.76	5709.07	1935.31	5710.94	1936	5712.78	1936.64	5713.6	1937
5716.03	1937.86	5718.75	1939	5720.48	1939.47	5721.86	1940	5725.26	1941
5727.83	1941.72	5729.89	1942.12	5732.95	1943	5736.33	1943.72	5738.19	1944
5743.86	1944.5	5750.48	1945	5758.33	1945	5766.86	1944.87	5773.5	1944.97
5778.12	1944.97	5778.6	1944.96	5781.47	1944.96	5783.55	1944.97	5790.42	1944.99
5792.2	1945	5797.64	1945	5803.8	1945.01	5810.55	1945	5815.32	1945
5816.61	1945.13	5817.12	1945.16	5823.23	1945.33	5827.39	1945.43	5828.65	1945.45
5829.04	1945.43	5835.14	1945.6	5848.7	1946	5852.03	1946	5869.09	1946.01

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	5869.09	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	5869.09	131.89	131.89	131.89	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1928.01	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.15	Wt. n-Val.		0.040	
W.S. Elev (ft)	1927.86	Reach Len. (ft)	131.89	131.89	131.89
Crit W.S. (ft)		Flow Area (sq ft)		7278.59	
E.G. Slope (ft/ft)	0.003297	Area (sq ft)		7278.59	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	4198.62	Top Width (ft)		4198.62	
Vel Total (ft/s)	3.08	Avg. Vel. (ft/s)		3.08	
Max Chl Dpth (ft)	2.86	Hydr. Depth (ft)		1.73	
Conv. Total (cfs)	390089.1	Conv. (cfs)		390089.1	
Length Wtd. (ft)	131.89	Wetted Per. (ft)		4200.26	

Min Ch El (ft)	1925.00	Shear (lb/sq ft)		0.36	
Alpha	1.00	Stream Power (lb/ft s)	5869.09	0.00	0.00
Frctn Loss (ft)	0.47	Cum Volume (acre-ft)		1744.92	
C & E Loss (ft)	0.00	Cum SA (acres)		813.16	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -9878.94

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1933.61	3.31	1933.6	11.81	1933.56	23.16	1933.52	24.23	1933.51
35.05	1933.47	37.92	1933.45	58.03	1933.37	68.58	1933.32	72.75	1933.31
85.59	1933.25	86.97	1933.25	94.72	1933.21	97.69	1933.2	390.25	1931.96
392.74	1931.96	395.86	1931.94	403	1931.92	432.3	1931.81	438.11	1931.79
441.3	1931.77	446.69	1931.75	462.42	1931.68	474.86	1931.62	488.1	1931.57
505.82	1931.49	515.61	1931.44	543.95	1931.33	558.15	1931.27	560.93	1931.25
567.9	1931.23	568.67	1931.22	606.59	1931.06	610.07	1931.05	635.62	1930.94
662.82	1930.83	665.57	1930.81	681.16	1930.75	720.41	1930.58	749.89	1930.46
772.55	1930.35	791.93	1930.25	799.05	1930.22	800.61	1930.22	810.15	1930.18
815.22	1930.15	833.44	1930.08	861.38	1929.96	884.57	1929.85	891.79	1929.81
905.72	1929.75	1000.15	1929.26	1035.6	1929.08	1038.54	1929.06	1056.2	1928.97
1062.77	1928.94	1093.95	1928.78	1097.39	1928.77	1105.42	1928.72	1121.18	1928.65
1128.63	1928.61	1141.58	1928.57	1169.66	1928.47	1195.23	1928.3	1215.08	1928.17
1224.51	1928.09	1229.37	1927.84	1273.27	1927.15	1277.54	1927	1285.41	1927
1298.94	1927.01	1310.5	1927	1321.51	1926.68	1330.01	1926.44	1338.91	1926.23
1346.33	1926.01	1346.43	1926	1402.75	1926	1406.72	1926.04	1413.68	1926.08
1421.2	1926.14	1430.45	1926.23	1474.82	1926.67	1506.39	1927	1615.9	1927
1649.68	1926.86	1694.85	1926.68	1696.01	1926.69	1698.33	1926.65	1708.75	1926.57
1715.54	1926.5	1721.29	1926.42	1733.73	1926.29	1749.25	1926	1804.6	1926
1813.32	1926.36	1818.38	1926.53	1820.58	1926.62	1822.02	1926.66	1832.13	1926.98
1835.31	1927	1846.97	1927	1847.26	1927.01	1863.15	1927.01	1880.62	1927
1894.62	1927	1908.14	1926.53	1923.14	1926	1938.75	1925.5	1940.1	1925.47
1945.14	1925.31	1947.03	1925.31	1947.95	1925.28	1949.69	1925.29	1953.93	1925.36
1973.07	1925.08	1978.43	1925.1	1992.08	1925.03	1994.87	1925.03	1998.79	1925
2028.02	1925	2035.44	1924.66	2040.66	1924.45	2043.5	1924.36	2046.13	1924.3
2048.28	1924.27	2050.62	1924.29	2088.53	1925	2097.5	1924.99	2119.56	1925
2293.91	1925	2295.32	1925.04	2314.73	1925.45	2318.59	1925.46	2339.43	1925.57
2345.15	1925.54	2359.12	1925.25	2370.44	1925.01	2385.83	1925.01	2386.35	1925.02
2399.78	1925	2432.15	1925	2466.33	1925.27	2487.65	1925.42	2495.2	1925.5
2496.48	1925.52	2499.08	1925.52	2532.27	1925.98	2533.12	1926	2594.54	1926
2596.84	1926.01	2613.58	1926.42	2619.55	1926.28	2628.77	1926.05	2630.17	1926
2650.83	1925.97	2656.74	1925.97	2660.98	1925.96	2678.26	1925.99	2682.6	1925.99
2686.41	1926	2704.65	1926.68	2713.08	1926.98	2713.88	1927	2742.97	1927
2745.16	1926.82	2753.33	1926	2877.28	1926	2885.53	1926.43	2889.45	1926.67
2894.96	1926.81	2903.38	1926	2903.95	1925.92	2912.12	1925	2932.45	1925
2943.18	1925.57	2946.67	1925.75	2951.21	1926	2971.27	1926.95	2972.63	1927.03
2982.96	1928	2985.31	1928.2	2993.84	1929	3020.68	1929	3032.13	1928.06
3033.02	1927.97	3044.78	1927.17	3047.34	1927	3055.36	1926.99	3062.43	1927
3064.35	1927.03	3065.04	1927.01	3076.01	1927.04	3085.77	1927.04	3095.66	1927.02
3097.81	1927	3110.31	1927	3114.56	1926.99	3123.08	1927	3129.07	1927
3133.55	1927.5	3137.65	1928	3140.76	1928.44	3144.37	1929	3146.2	1929.32
3147.41	1929.49	3148.29	1929.58	3149.7	1929.66	3151.67	1929.9	3153.18	1929.98
3155.26	1929.96	3163.05	1930	3207.83	1930	3222.56	1929.41	3233.38	1929
3233.84	1929	3240.9	1928.69	3249.36	1928.45	3250.24	1928.42	3263.8	1928.08
3267.11	1928	3271.67	1927.91	3278.12	1927.8	3278.88	1927.76	3287.04	1927.47
3294.61	1927.22	3301.1	1927	3302.37	1926.97	3306.35	1926.79	3320.77	1926
3324.59	1925.78	3337.42	1925	3363.52	1925	3370.14	1925.01	3375.95	1925.01
3379.86	1925	3388.06	1925.49	3393.58	1925.84	3396.5	1926	3448.92	1926
3475.83	1925.04	3479.41	1925	3482.04	1925	3485.6	1924.83	3498.6	1924.42
3499.24	1924.38	3503.32	1924.2	3506.34	1924.08	3508.77	1924	3547.32	1924
3558.03	1924.24	3566.28	1924.4	3574.4	1924.5	3578.91	1924.61	3589.5	1924.99
3594.54	1924.99	3598.55	1925	3614.92	1925	3620.88	1925.32	3641.79	1925.99
3643.08	1926	3659.8	1925.42	3660.3	1925.42	3668.13	1925.17	3669.8	1925.13
3673.61	1925	3720.71	1925	3731.32	1925.28	3742.71	1925.44	3771.44	1925.82
3776.18	1925.89	3780.12	1925.97	3781	1926	3784.61	1926	3799.15	1926.4
3817.02	1927	3819.46	1927.13	3834.11	1927.94	3835.12	1928	3853.76	1928
3855.65	1927.92	3857.78	1927.86	3861.09	1927.74	3867.5	1927.56	3883.88	1927.02
3884.87	1927	3926.62	1927	3928.65	1926.97	3945.62	1926.63	3960.69	1926.53
3971.72	1926.46	3975.44	1926.34	3977.18	1926.31	3979.28	1926.34	3980.06	1926.32
3984.41	1926.37	3989.74	1926.31	3997.65	1926.1	4000.75	1926	4044.07	1926
4047.23	1926.1	4048.65	1926.18	4049.07	1926.16	4053.2	1926.43	4058.54	1926.32
4063.77	1926.45	4138.16	1926.67	4139.84	1926.67	4149.92	1926.79	4159.65	1927
4226.19	1927	4235.59	1927.01	4340.8	1927.01	4353.7	1927.21	4374.55	1927.49
4375.51	1927.5	4390.83	1927.24	4404.73	1927	4426.87	1927	4438.96	1926.72
4465.88	1926.02	4469.04	1926	4471.38	1925.85	4474.29	1925.64	4483.51	1925
4508.83	1924.48	4533.35	1924	4540.97	1923.99	4544.87	1924	4548.56	1923.99
4557.39	1923.98	4577.84	1923.95	4589.39	1923.96	4610	1923.91	4618.34	1923.9
4622.37	1923.9	4625.63	1923.89	4652.56	1923.96	4660.26	1923.95	4667.55	1923.96
4680.21	1923.97	4692.02	1923.97	4700.42	1923.99	4704.84	1923.99	4711.85	1924
4716.05	1924.06	4720.16	1924.15	4724.2	1924.29	4745.13	1925	4758.15	1925

4763.56	1924.86	4770.53	1924.7	4788.27	1924	4820.96	1924	4822.29	1924.04
4835.12	1924.34	4839.81	1924.49	4844.91	1924.61	4847.29	1924.65	4850.47	1924.68
4851.45	1924.72	4853.7	1924.73	4856.93	1924.81	4859.71	1924.81	4862.03	1924.79
4864.43	1924.83	4867.96	1924.79	4868.99	1924.8	4872.72	1924.75	4881.94	1924.66
4889.47	1924.62	4894.45	1924.67	4898.84	1924.67	4909.56	1924.73	4914.46	1924.71
4925.79	1924.65	4940.09	1924.64	4957.29	1924.57	4962.63	1924.52	4974.5	1924.37
4997.07	1924.09	5002.59	1924	5017.64	1923.99	5029.44	1923.99	5030.03	1923.98
5044.2	1923.98	5054.7	1923.97	5070.41	1923.97	5080.83	1923.98	5109.92	1924
5122.08	1924	5124.02	1924.02	5126.36	1924.08	5129.63	1924.22	5147.26	1924.99
5149.63	1925	5151.31	1925.06	5155.7	1925.26	5171.16	1925.99	5185.71	1925.99
5191.2	1926	5205.71	1925.43	5211.87	1925.2	5217.77	1925	5324.17	1925
5369.57	1925.14	5376.93	1925.13	5383.43	1925.14	5424.27	1925.15	5470.29	1925.03
5474.24	1925	5497.24	1925	5510.12	1926.11	5520.23	1927	5524.16	1927
5526.15	1926.96	5527.45	1926.87	5535.73	1926.39	5539.95	1926.21	5549.07	1925.46
5553.46	1925	5559.32	1925	5560.85	1925.8	5562.02	1926.46	5562.95	1926.77
5564.02	1927	5565.29	1927.15	5566.31	1927.23	5569.42	1927.41	5575.26	1928
5578.36	1928.07	5581.38	1928.36	5582.33	1928.56	5584.63	1929	5588.32	1929
5589.19	1928.9	5596.06	1928	5600.43	1927.4	5603.06	1927	5604.01	1927
5607.91	1927.95	5613.34	1929	5619.77	1929.93	5621.46	1930.19	5627.34	1931.19
5632	1932	5637.93	1933	5640.78	1933.21	5645.29	1933.49	5649.31	1934
5651.64	1934.74	5652.36	1935	5654.85	1935.77	5656.2	1936.13	5663.06	1937.74
5668.53	1939.36	5670.88	1940	5673.23	1940.71	5674.75	1941	5677.43	1941.15
5680.51	1941.28	5687.55	1941.45	5689.63	1941.53	5699.26	1942	5700.58	1942.06
5703.23	1942.23	5704.91	1942.3	5707.74	1942.5	5708.56	1942.54	5714.95	1943
5723.02	1943.35	5728.99	1943.49	5735.23	1943.71	5737.22	1943.76	5742.28	1944
5748.22	1944.39	5758.04	1944.87	5760.46	1945	5770.41	1945	5773.98	1944.99
5775.82	1945	5779.47	1945.26	5782.88	1945.48	5786.67	1945.7	5788.92	1945.79
5789.9	1945.86	5796.2	1946	5797.28	1946	5803.3	1946.04	5814.26	1946.08

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	5814.26	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	5814.26	110.88	110.88	110.88	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1927.53	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.17	Wt. n-Val.		0.040	
W.S. Elev (ft)	1927.37	Reach Len. (ft)	110.88	110.88	110.88
Crit W.S. (ft)		Flow Area (sq ft)		6831.31	
E.G. Slope (ft/ft)	0.003847	Area (sq ft)		6831.31	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	4022.54	Top Width (ft)		4022.54	
Vel Total (ft/s)	3.28	Avg. Vel. (ft/s)		3.28	
Max Chl Dpth (ft)	3.48	Hydr. Depth (ft)		1.70	
Conv. Total (cfs)	361131.0	Conv. (cfs)		361131.0	
Length Wtd. (ft)	110.88	Wetted Per. (ft)		4024.07	
Min Ch El (ft)	1923.89	Shear (lb/sq ft)		0.41	
Alpha	1.00	Stream Power (lb/ft s)	5814.26	0.00	0.00
Frctn Loss (ft)	0.40	Cum Volume (acre-ft)		1723.56	
C & E Loss (ft)	0.00	Cum SA (acres)		800.72	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -9989.82

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1932.74	299.39	1931.45	303.46	1931.44	308.54	1931.41	315.43	1931.39
319.12	1931.37	322.54	1931.36	326.16	1931.34	327.55	1931.34	330.99	1931.32
335.14	1931.31	340.93	1931.28	344.89	1931.27	345.15	1931.26	364.03	1931.19
370.98	1931.16	379.27	1931.12	384.03	1931.11	387.46	1931.09	394.84	1931.06
406.28	1931.01	408.05	1931.01	413.19	1930.99	421.76	1930.95	616.23	1930.15
620.29	1930.14	631.39	1930.1	650.9	1930.04	657.77	1930.01	667.9	1929.96
675.75	1929.93	686.47	1929.88	715.7	1929.76	716.75	1929.75	729.8	1929.69
741.16	1929.65	742.53	1929.64	749.86	1929.61	757.97	1929.58	782.43	1929.48
793.02	1929.43	794.85	1929.43	805.71	1929.38	811.44	1929.36	833.69	1929.27
841.82	1929.24	842.74	1929.23	850.29	1929.2	853.67	1929.19	859.56	1929.16
866.75	1929.14	866.91	1929.13	869.18	1929.13	872.92	1929.11	881.34	1929.08
881.81	1929.07	889.76	1929.04	921.49	1928.91	924.7	1928.9	939.83	1928.84
942.85	1928.83	948.15	1928.8	988.5	1928.64	1017.3	1928.52	1021.37	1928.5
1022.71	1928.5	1029.56	1928.46	1039	1928.42	1048.96	1928.37	1059.66	1928.33
1059.8	1928.32	1064.11	1928.31	1075.09	1928.26	1076.92	1928.26	1082.39	1928.23
1084.22	1928.23	1100.74	1928.16	1101.85	1928.15	1133.92	1928.02	1159.09	1927.9
1159.18	1927.86	1160.54	1927.8	1166.67	1927.39	1181.81	1926.34	1190.58	1926.14
1190.74	1926.13	1196.24	1926	1292.8	1926	1310.08	1926.02	1319.52	1926.01
1326.44	1926	1347.52	1926	1347.92	1925.99	1362.86	1925.71	1364.61	1925.71
1388.46	1925.42	1390.57	1925.42	1400.33	1925.38	1405.64	1925.37	1406.9	1925.38
1462.92	1926	1522.76	1926	1581.64	1926.43	1613.95	1926.66	1616.19	1926.66

1618.68	1926.68	1620.41	1926.68	1627.19	1926.71	1629.63	1926.71	1642.57	1926.67
1659.69	1926.61	1663	1926.6	1663.64	1926.59	1673.42	1926.53	1675	1926.51
1679.23	1926.48	1690.05	1926.34	1691.57	1926.33	1710.31	1926.1	1710.5	1926.09
1718.11	1926	1719.68	1926	1736.84	1925.91	1749.87	1925.85	1755.17	1925.82
1762.13	1925.77	1762.78	1925.77	1770.09	1925.71	1782.83	1925.61	1784.93	1925.6
1809.32	1925.4	1817.48	1925.33	1856.85	1925	2008.58	1925	2012.35	1924.93
2036.84	1924.43	2048.81	1924.28	2060.86	1924.11	2069.3	1924	2086.42	1924
2088.87	1924.04	2090.43	1924.08	2094.28	1924.2	2117.98	1924.98	2118.43	1925
2561.88	1925	2572.4	1925.66	2579.7	1925.99	2580.35	1926	2583.96	1926.01
2584.76	1926.05	2599.39	1926.69	2600.71	1926.73	2605.47	1926.82	2607.9	1926.85
2609.61	1926.85	2611.69	1926.76	2620.43	1926.36	2626.83	1926	2629.76	1926
2635.64	1925.99	2650.56	1925.99	2669.45	1925.98	2674.3	1925.98	2692.49	1925.69
2693.87	1925.7	2700.21	1925.67	2708.9	1925.59	2715.86	1925.67	2718.18	1925.6
2720.19	1925.52	2728.44	1925	2778.04	1925	2784.41	1925.46	2784.78	1925.48
2790.17	1925.55	2795.42	1925.7	2804.82	1925.99	2805.05	1926	2832.32	1926
2833.87	1925.89	2847.36	1925	2852.86	1924.61	2856.58	1924.4	2859.33	1924.27
2863.98	1924.15	2869.03	1924	2870.86	1923.98	2874.49	1923.92	2874.74	1923.93
2879.05	1923.98	2880.68	1923.99	2884.01	1923.98	2886.83	1923.98	2887.62	1923.97
2890.02	1923.97	2891.82	1923.89	2900.51	1923.57	2901.16	1923.6	2913.16	1924
2915.13	1924.08	2921.35	1924.47	2922.9	1924.56	2927.27	1924.84	2929.86	1925
2951.08	1925.99	2951.39	1926	2981.11	1926	2999.53	1925.55	3007.53	1925.42
3012.77	1925.36	3013.5	1925.34	3015.82	1925.33	3018.1	1925.29	3019.38	1925.28
3031.63	1925.1	3037.72	1925	3043.74	1925	3056.04	1925.52	3063.35	1925.91
3065.19	1926	3069.56	1926.03	3071.42	1926.02	3075.59	1926.14	3076.48	1926.15
3079.41	1926.14	3090.47	1926.11	3102.58	1926.06	3104.96	1926	3127.7	1926
3133.5	1926.54	3135.45	1926.74	3138.99	1927	3141.88	1927.02	3146.98	1927.45
3148	1927.51	3153.87	1928	3162.34	1928.69	3166.03	1929	3180.26	1929.59
3189.53	1930	3192.27	1930.01	3197.57	1930.02	3211.12	1930.02	3226.4	1930
3227.69	1930	3231.05	1929.7	3231.72	1929.63	3234.64	1929	3237.43	1928.3
3238.82	1928	3242.71	1927	3244.49	1926.69	3246.36	1926.54	3247.63	1926.47
3250.39	1926.47	3258.05	1926.4	3263.57	1926.23	3267.37	1926.03	3269.12	1926.02
3270	1926	3271.69	1925.88	3272.85	1925.89	3275.99	1925.72	3293.23	1925.02
3294.08	1925.01	3295.74	1925.02	3296.64	1925	3340.29	1925	3343.7	1925.11
3350.9	1925.31	3361.29	1925.18	3366.13	1925.15	3372.33	1925.02	3380.1	1925.01
3390.22	1925.01	3398.59	1925.04	3400	1925	3411.38	1924.34	3416.32	1924
3528.11	1924	3533.13	1924.06	3540.43	1924.34	3554.81	1924.88	3557.85	1925
3637.54	1925	3654.42	1925.5	3668.46	1925.9	3671.8	1926	3672.26	1926
3674.88	1926.08	3684.2	1926.26	3686.56	1926.31	3702.89	1926.33	3718.69	1926.33
3720.15	1926.32	3736.66	1926	3741.04	1925.91	3744.65	1926	3767.22	1925.99
3779.56	1925.93	3812.42	1925.78	3818.14	1926	3830.82	1926	3838.23	1926.01
3851.09	1926.01	3871.89	1926	3897.46	1926	3907.41	1925.95	3929.19	1925.85
3934.46	1925.88	3938.2	1925.88	3942.15	1925.86	3944.87	1925.8	3989.05	1925.89
4021.92	1925.99	4038.65	1926	4054.79	1926	4061.78	1926.01	4077.72	1926.01
4132.85	1926.37	4140.01	1926.41	4141.16	1926.42	4165.68	1926.47	4186.43	1926.51
4192.98	1926.58	4199.25	1926.56	4202.94	1926.61	4205.51	1926.6	4212.71	1926.68
4215.09	1926.7	4216.44	1926.7	4219.4	1926.72	4222.35	1926.75	4225.98	1926.76
4237.83	1926.83	4243.97	1926.85	4258.33	1926.91	4273.44	1927	4439.94	1927
4447.91	1926.86	4452.7	1926.79	4502.64	1926	4518.25	1925.54	4520.32	1925.49
4538.38	1925	4547.7	1924.76	4549.76	1924.7	4575.49	1924	4576.51	1924
4592.59	1923.83	4608.63	1923.68	4612.44	1923.66	4615.31	1923.63	4616.27	1923.63
4631.02	1923.49	4640.75	1923.41	4642.47	1923.41	4666.21	1923.3	4681.46	1923.26
4692.97	1923.26	4703.97	1923.24	4713.2	1923.24	4722.2	1923.22	4734.11	1923.25
4752.03	1923.34	4753.33	1923.34	4775.52	1923.63	4779.13	1923.68	4793.91	1923.93
4795.62	1923.93	4798.19	1924	4914.3	1924	4924.43	1923.99	4928.65	1923.99
4934.7	1924	4958.16	1924	4964.74	1923.9	4967.23	1923.9	4968.05	1923.89
4972.65	1923.88	4976.56	1923.86	4979.32	1923.84	4991.58	1923.72	4999.04	1923.64
5002.04	1923.64	5003.04	1923.66	5007.62	1923.56	5062.32	1923.79	5086.16	1923.94
5102.02	1923.96	5114.46	1923.97	5122.98	1923.98	5142.12	1923.99	5142.6	1924
5153.31	1924.49	5163.8	1925	5173.41	1925.32	5182.25	1925.63	5193.39	1926
5253.94	1926	5262.42	1925.61	5271.95	1925.18	5276.15	1925	5384.97	1925
5386.45	1924.99	5411.71	1924.97	5416.13	1924.97	5417.33	1924.98	5428.4	1924.98
5437.09	1924.99	5456.82	1924.99	5467.42	1925.02	5472.01	1925.02	5473.48	1925.03
5482.77	1925	5489.03	1924.99	5492.32	1924.99	5499.08	1924.98	5506.22	1924.98
5515.6	1924.99	5516.52	1925	5525.1	1925	5526.87	1925.01	5530.29	1925.01
5539.48	1925.07	5541.72	1925	5551.51	1925	5553.17	1925.49	5555.09	1926
5556.41	1926.4	5557.9	1926.79	5560.23	1927.46	5562.48	1928.16	5563.58	1928.55
5564.68	1929	5566.69	1929.75	5567.45	1929.86	5569.31	1929.84	5580.42	1929.77
5580.94	1929.78	5586.05	1929.8	5588.42	1929.97	5590.54	1929.98	5590.98	1930
5593.39	1930	5593.57	1929.94	5598.21	1929	5600.32	1928.5	5602.27	1928
5605.18	1927.79	5608.11	1928	5609.25	1928.22	5613.97	1929	5617.62	1929.59
5620.74	1930.14	5630.32	1931.86	5636.27	1932.89	5636.88	1933	5639.74	1933.45
5643.16	1934	5649.84	1935	5651.42	1935.47	5659.83	1938	5661.69	1938.55
5663.09	1939	5666.38	1940	5671.79	1940.93	5673.2	1941.15	5675.48	1941.42
5678.61	1941.81	5680.36	1942	5689.15	1942.98	5689.48	1943.01	5705.96	1944
5724.67	1944.73	5726.89	1944.79	5728.41	1944.82	5734.21	1945	5744.86	1945
5749.45	1945.21	5758.82	1945.42	5764.36	1945.53	5770.05	1946	5775.02	1946.19
5776.65	1946.27	5785.8	1946.65	5790.5	1946.78	5797.03	1947	5805.21	1947

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	5805.21	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	5805.21	164.39	164.39	164.39	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1927.12	Element	Left OB	Channel	Right OB

Vel Head (ft)	0.15	Wt. n-Val.		0.040	
W.S. Elev (ft)	1926.97	Reach Len. (ft)	164.39	164.39	164.39
Crit W.S. (ft)		Flow Area (sq ft)		7110.27	
E.G. Slope (ft/ft)	0.003462	Area (sq ft)		7110.27	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	4108.05	Top Width (ft)		4108.05	
Vel Total (ft/s)	3.15	Avg. Vel. (ft/s)		3.15	
Max Chl Dpth (ft)	3.75	Hydr. Depth (ft)		1.73	
Conv. Total (cfs)	380705.3	Conv. (cfs)		380705.3	
Length Wtd. (ft)	164.39	Wetted Per. (ft)		4108.98	
Min Ch El (ft)	1923.22	Shear (lb/sq ft)		0.37	
Alpha	1.00	Stream Power (lb/ft s)	5805.21	0.00	0.00
Frctn Loss (ft)	0.43	Cum Volume (acre-ft)		1705.82	
C & E Loss (ft)	0.01	Cum SA (acres)		790.37	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -10154.2

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1930.82	10.83	1930.78	15.97	1930.77	158.51	1930.3	177.09	1930.22
214.06	1930.05	237.3	1929.95	260.38	1929.84	282.08	1929.75	300.6	1929.66
351.08	1929.42	362.3	1929.37	373.72	1929.31	397.54	1929.21	410.89	1929.14
414.25	1929.13	442.79	1928.99	484.13	1928.8	504.21	1928.72	517.37	1928.66
529.09	1928.62	547.92	1928.54	571.35	1928.45	578.18	1928.42	601.62	1928.33
621.41	1928.25	632.34	1928.2	739.64	1927.77	751.85	1927.72	755.88	1927.71
773.6	1927.64	775.32	1927.64	789.35	1927.58	795.64	1927.56	825.55	1927.44
845.7	1927.37	851.61	1927.34	866.25	1927.29	901.67	1927.15	951.2	1926.97
965.49	1926.93	978.71	1926.87	992.55	1926.82	996.33	1926.8	1009.62	1926.75
1027.76	1926.67	1047.04	1926.6	1063.15	1926.53	1068.88	1926.51	1070.43	1925.14
1070.94	1925	1072.22	1925	1074.22	1925.24	1075.04	1925.17	1078.68	1925.04
1085.51	1925.1	1095.22	1925.22	1146.95	1925.41	1178.74	1925.52	1200.26	1925.26
1216.72	1925.08	1222.86	1925	1245.37	1925	1255.77	1925.27	1262.98	1925.45
1284.23	1925.45	1306.76	1925.41	1314.74	1925.29	1330.63	1925	1338.28	1924.79
1367.67	1924	1381.51	1923.98	1392.52	1923.97	1403.09	1923.95	1407.58	1923.96
1437.55	1924	1449.45	1924.46	1465.77	1925	1553.54	1925	1570.73	1924.55
1587.71	1924.18	1593.25	1924	1614.92	1924	1658.03	1923.93	1714.82	1923.84
1732.66	1923.87	1735.77	1923.86	1766.32	1924	1889.61	1924	1902.62	1924.12
1923.21	1924.34	1924.21	1924.36	1965.07	1924.69	1978.13	1924.79	1981.3	1924.79
1999.54	1924.83	2019.81	1924.88	2024.98	1924.88	2032.23	1924.9	2044.22	1924.86
2046.81	1924.83	2056.4	1924.84	2062.47	1924.75	2067.36	1924.73	2070.8	1924.68
2084.58	1924.43	2100.24	1924.14	2108.32	1924	2128.87	1923.02	2132.38	1923
2143.22	1923.1	2153.85	1923.17	2157.3	1923.18	2161.85	1923.12	2169.1	1923.21
2209.02	1923.68	2213.01	1923.74	2228.04	1924	2238.37	1924.02	2243.62	1924.02
2262.99	1924.07	2281.63	1924.34	2303.1	1924.56	2306.19	1924.55	2314.58	1924.55
2326.94	1924.53	2329.03	1924.51	2336.04	1924.5	2365.29	1924.6	2411.14	1924.78
2417.14	1924.8	2420.55	1924.85	2423.26	1924.85	2428.51	1924.91	2434.06	1925
2515.95	1925	2522.19	1925.07	2527.99	1925.26	2544.82	1925.78	2548.23	1925.81
2551.38	1925.9	2553.43	1925.9	2555.46	1925.94	2558	1925.94	2560.99	1925.88
2563.85	1925.78	2565.84	1925.67	2573.2	1925.52	2574.61	1925.44	2588.58	1925.22
2592.54	1925.18	2599.62	1925.4	2607.56	1925.29	2608.48	1925.29	2613.12	1925.19
2615.9	1925.09	2617.58	1925	2621.75	1924.84	2628.09	1924.62	2636.89	1924.28
2644.35	1924.03	2646.17	1924	2661.48	1923.22	2663.69	1923	2735.66	1923
2743.38	1923.3	2762.61	1924	2782.87	1925	2795.27	1925.01	2804	1925.01
2818.2	1925	2820.58	1925.03	2826.08	1925	2848.68	1925	2851.7	1925.14
2869.65	1926	2873.57	1925.98	2878	1925.77	2881.99	1925.64	2900.33	1925.02
2902.51	1925	2912.77	1923.72	2915.11	1923.4	2918.31	1923	2923.43	1923
2932.86	1924.39	2936.52	1925	2938.7	1925.34	2942.71	1926	2951.91	1926.94
2962.41	1928	2964.14	1928.51	2965.97	1929	2969.34	1930	2970.26	1930
2972.46	1929.74	2978.34	1929	2980.6	1928.67	2980.9	1928.67	2985.02	1928.95
2990.67	1928.89	2999.69	1928.87	3002.51	1928.89	3007.4	1928.59	3008.81	1928.57
3015.77	1928.7	3018.87	1929	3029.79	1929	3032.5	1928.08	3035.51	1927
3038.67	1925.78	3039.63	1925.37	3043.29	1923.67	3049.5	1923.01	3059.04	1923
3067.57	1923	3084.03	1922.99	3091.73	1922.99	3106.13	1923	3114.67	1923
3123	1923.28	3130.46	1923.5	3145.9	1924	3146.1	1924	3147.51	1924.86
3148.82	1925.55	3150.06	1926	3150.97	1926	3153.61	1925	3154.87	1924.49
3161.25	1922	3188.43	1922	3243.54	1922.95	3246.68	1923	3255.13	1923
3258.9	1923.01	3272.35	1923.01	3293.84	1923.24	3311.88	1923.32	3320.6	1923.43
3352.72	1923.89	3360.08	1923.99	3366.03	1924.01	3370.83	1924.01	3398.76	1924.43
3403.14	1924.53	3406.37	1924.58	3418.15	1924.83	3423.33	1924.93	3428.18	1925
3442.75	1925	3452.25	1925.01	3456.29	1925.1	3484.79	1925.77	3497.06	1926
3507.49	1926.01	3521.75	1926.01	3534.34	1926	3537.45	1926.06	3550.78	1925.92
3551.68	1925.93	3569.85	1925.83	3572.74	1925.84	3589.44	1926	3593.87	1926
3612.49	1925.78	3636.86	1925.5	3638.42	1925.51	3643.92	1925.65	3654.03	1925.94
3655.76	1926	3657.97	1926.13	3669.19	1926.75	3672.3	1926.93	3674	1927
3678.08	1927	3698.81	1926.59	3701.83	1926.56	3705.47	1926.41	3710.05	1926
3719.55	1925.22	3721.79	1925	3722.69	1924.99	3736.81	1924.94	3746.95	1924.93
3755.02	1924.9	3762.48	1924.9	3765.16	1924.89	3770.81	1924.92	3777.26	1924.93
3790.7	1925	3907.54	1925	3926.42	1925.48	3937.23	1925.76	3945.91	1925.95
3949.08	1926	4004.84	1926	4017.37	1925.29	4022.77	1925	4101.34	1925

4111.65	1925.17	4117.41	1925.31	4170.27	1925.95	4173.85	1925.99	4183.04	1925.98
4258.89	1925.26	4277.6	1925.09	4283.83	1925.24	4284.82	1925.22	4286.36	1925.3
4296.73	1926	4304.56	1926.58	4310.06	1927	4315.62	1927.73	4323.86	1929
4330	1930	4333.86	1930.07	4340.69	1930	4343.25	1929.95	4346.66	1929.95
4350.82	1930	4354.57	1930.09	4356.01	1930.03	4357.04	1930.04	4358.96	1929.97
4364.2	1929	4371.34	1927.8	4372.72	1927.59	4377.29	1926.72	4380.49	1926
4383.23	1925.95	4389.77	1926	4391.96	1926.17	4394.87	1926.43	4400.79	1927
4409.91	1927.55	4416.54	1928	4424.53	1928.27	4433.43	1928.6	4440.78	1928.83
4444.85	1929	4464.41	1929	4469.61	1929.01	4481.78	1929.01	4495.94	1929
4505.02	1928.29	4509	1928	4522.89	1927.24	4526.51	1927	4535.56	1926.43
4542.94	1926	4544.91	1926	4557.27	1925.95	4571.68	1926	4583.53	1929
4584.29	1929.22	4585.89	1930	4586.22	1930.02	4588.13	1930.42	4589.25	1930.61
4591.6	1930.69	4594.32	1930.67	4597.11	1930.58	4598.94	1930.42	4601	1930.14
4602.12	1929.93	4606.61	1929	4610.66	1928.25	4612.22	1928	4613.64	1927.91
4615.37	1928.03	4616.68	1927.99	4617.48	1927.84	4620.92	1927	4623.84	1926.18
4624.68	1926	4636.01	1925.98	4638.14	1925.96	4642.07	1925.63	4643.37	1925.63
4647.98	1925.56	4652.28	1925.54	4658.94	1925.39	4663.17	1925.24	4665.43	1925.18
4670.11	1925	4675.43	1924.85	4676.53	1924.87	4683.87	1924.8	4685.4	1924.83
4686.95	1924.73	4689.3	1925	4692.15	1925.52	4693.56	1925.69	4694.85	1925.71
4696.02	1925.63	4697.14	1925.44	4699.18	1925	4702.26	1924	4704.7	1923.82
4709.19	1923.69	4714.15	1923.45	4715.65	1923.42	4729.94	1923	4892.41	1923
4914.9	1923.59	4933.17	1924	4995.09	1924	5008.18	1923.6	5028.75	1923
5154.5	1923	5163.75	1924	5174.99	1924.83	5180.3	1925	5209.4	1925
5215.7	1925.12	5228.03	1925.32	5239.03	1925.24	5255.08	1925.01	5255.44	1925
5333.1	1925	5350.02	1924.99	5362.26	1924.99	5362.73	1925	5385.47	1924.98
5394.26	1925	5410.39	1925	5421.46	1924.99	5423.04	1924.98	5431.91	1924.98
5463.99	1924.94	5482.92	1924.9	5488.89	1924.88	5507.73	1924.91	5523.7	1924.96
5539.12	1925	5554.61	1925.61	5567.03	1926	5570.12	1926	5577.1	1927
5581.02	1927.32	5585.24	1928	5590.15	1929	5593.01	1929.6	5594.46	1929.82
5603.02	1930.59	5606.55	1931	5615.91	1931.62	5626.1	1932.32	5630.94	1933
5634.42	1934	5636.95	1934.79	5642.24	1936.12	5646.51	1937	5651.08	1938
5651.91	1938.2	5656.81	1939.26	5658.96	1939.67	5661.44	1940.19	5663.41	1940.52
5664.02	1940.55	5664.65	1940.43	5665.79	1940.68	5668.32	1940.55	5675.15	1940.01
5675.44	1940	5686.53	1939.03	5688.4	1939	5691.24	1939.36	5693.96	1939.76
5695.39	1940	5699.1	1941	5700.31	1941.01	5702.15	1941.13	5716.18	1942
5719.15	1942.24	5720.15	1942.26	5723.45	1942.4	5735.14	1943	5735.5	1943
5743.17	1944	5753.94	1945	5757.14	1945.09	5782.94	1945.84	5787.45	1945.96
5790.92	1946.01	5806.87	1946.02	5811.21	1946.07	5822.9	1946.12	5836.67	1946.11

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	5836.67	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	5836.67	162.2	162.2	162.2	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1926.68	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.11	Wt. n-Val.		0.040	
W.S. Elev (ft)	1926.57	Reach Len. (ft)	162.20	162.20	162.20
Crit W.S. (ft)		Flow Area (sq ft)		8361.87	
E.G. Slope (ft/ft)	0.002038	Area (sq ft)		8361.87	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	4137.53	Top Width (ft)		4137.53	
Vel Total (ft/s)	2.68	Avg. Vel. (ft/s)		2.68	
Max Chl Dpth (ft)	4.57	Hydr. Depth (ft)		2.02	
Conv. Total (cfs)	496201.9	Conv. (cfs)		496201.9	
Length Wtd. (ft)	162.20	Wetted Per. (ft)		4141.65	
Min Ch El (ft)	1922.00	Shear (lb/sq ft)		0.26	
Alpha	1.00	Stream Power (lb/ft s)	5836.67	0.00	0.00
Frctn Loss (ft)	0.35	Cum Volume (acre-ft)		1676.62	
C & E Loss (ft)	0.00	Cum SA (acres)		774.81	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -10316.4

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1930.34	4.6	1930.33	7.88	1930.31	19.18	1930.28	20.45	1930.27
44.51	1930.2	55.47	1930.16	59.74	1930.15	67.22	1930.12	78.94	1930.08
84.43	1930.07	236.47	1929.57	258.29	1929.47	295.64	1929.31	317.84	1929.21
321.57	1929.19	331.76	1929.15	357.76	1929.03	368.04	1928.98	387.73	1928.89
429.69	1928.69	441.57	1928.64	453.66	1928.58	464.27	1928.54	469.39	1928.51
493	1928.41	496.55	1928.39	526.74	1928.25	559.83	1928.09	571.08	1928.05
572.15	1928.04	580.98	1928.01	594.84	1927.95	627.01	1927.82	646.02	1927.75
651.69	1927.72	658.87	1927.7	683.55	1927.6	701.43	1927.53	709.94	1927.49
715.87	1927.47	793.18	1927.16	805.91	1927.11	810.11	1927.1	828.59	1927.03
837.06	1926.99	856.66	1926.92	882.74	1926.82	892.31	1926.79	903.73	1926.74
918.27	1926.69	925.13	1926.66	948.78	1926.57	950.3	1926.57	962.03	1926.52

982.31	1926.45	984.02	1926.44	999.01	1926.4	1000.18	1926.39	1009.01	1926.36
1024.94	1926.29	1032.1	1926.27	1033.09	1926.26	1039.12	1925	1274.65	1925
1283.37	1925.01	1288.93	1925	1314.85	1925	1337.36	1924.11	1340.41	1924
1342.33	1923.95	1354.85	1923	1371.77	1923	1376.74	1923.03	1396.5	1923.37
1404.08	1923.52	1432.72	1924	1437.71	1924.09	1450.14	1924.27	1467.16	1924.37
1478.41	1924.39	1485.99	1924.39	1497.16	1924.31	1501.37	1924.3	1510.98	1924.22
1513.52	1924.22	1522.21	1924.1	1530.55	1924	1536.54	1923.96	1541.74	1923.91
1554.46	1923.81	1569.75	1923.76	1573.38	1923.74	1596.21	1923.57	1606.22	1923.51
1609.7	1923.5	1670.91	1923.41	1672.37	1923.41	1706.75	1923.46	1735.98	1923.5
1747.13	1923.48	1748.02	1923.47	1780.39	1923.63	1842.94	1923.92	1849.44	1924
1908.59	1924	1913.89	1924.05	1953.96	1924.37	1963.09	1924.36	1971.49	1924.38
1980.85	1924.41	1984.77	1924.41	1995.45	1924.39	2001.27	1924.39	2005.26	1924.4
2026.99	1924.32	2058.18	1924.14	2066.21	1924.05	2071.72	1924	2076.92	1923.88
2090.39	1923.56	2115.39	1923.01	2115.57	1923	2161.72	1923	2163.92	1923.01
2182.32	1923.01	2184.38	1923.02	2189.17	1923.18	2198.48	1923.48	2209.6	1923.72
2213.04	1923.78	2218.77	1923.85	2222.17	1923.94	2224.96	1923.94	2236.28	1923.99
2240.92	1923.98	2242.86	1923.92	2249.58	1923.8	2260.58	1923.83	2260.87	1923.8
2263.96	1923.8	2264.46	1923.77	2271.93	1923.63	2274.88	1923.61	2275.41	1923.59
2282.53	1923.41	2291.26	1923.27	2293.24	1923.23	2301.41	1923.1	2306.59	1923.12
2311.25	1923	2360.77	1923	2367.88	1923.5	2372.7	1923.48	2376.56	1923.5
2383.37	1923.6	2394.11	1923.79	2397.24	1923.86	2402.14	1923.93	2405.47	1923.96
2405.99	1923.98	2411.29	1924	2416.47	1924	2421.84	1924.05	2430.41	1924.09
2433.59	1924.12	2441.14	1924.23	2453.5	1924.21	2463.2	1924.29	2475.16	1924.38
2493.02	1924.45	2503.97	1924.48	2520.26	1924.48	2528.05	1924.45	2537.13	1924.4
2543.97	1924.33	2551.91	1924.26	2557.87	1924.19	2560.38	1924.18	2573.09	1924
2599.18	1923.33	2601.9	1923.27	2609.36	1923	2669.29	1923	2675.09	1923.34
2687.76	1924	2723.78	1924	2729.72	1923.99	2738.46	1924	2749.09	1925
2762.9	1925.81	2766.29	1926	2780.5	1926.01	2788.6	1926	2793.69	1926
2806.28	1925.98	2816.04	1925.98	2821.29	1925.99	2837.51	1926	2856.91	1926.38
2866.92	1926.55	2872.43	1926.44	2875.78	1926.36	2882.21	1926.38	2886.76	1926.25
2892.7	1926.13	2894.92	1926.12	2895.93	1926.09	2899.89	1926.08	2900.92	1926.09
2903.88	1926.23	2907.41	1926.26	2908.84	1926.4	2910.88	1926.47	2912.58	1926.67
2917.79	1927.22	2924.08	1928	2925.27	1928.46	2927.57	1929.42	2929.09	1930
2931.63	1931	2933.51	1931.11	2935.17	1931.48	2937.94	1930.56	2942.55	1929.1
2945.25	1928.18	2948.14	1927	2949.3	1926.95	2952.94	1927.03	2954.98	1927.16
2958.06	1927	2958.65	1927.02	2962.52	1927.7	2964.33	1928	2965.26	1928
2967.42	1927.6	2969.96	1927	2977.83	1926.11	2978.96	1925.95	2989.39	1924.69
2992.56	1924.29	2994.73	1924	2997.67	1923.53	2999.56	1923	3002.71	1922
3018.77	1922	3026.28	1922.06	3030.19	1922.04	3033.16	1922.04	3049.2	1922
3053.91	1922.12	3088.22	1922.74	3088.48	1922.75	3099.48	1922.87	3119.76	1922.77
3126.75	1922.77	3128.1	1922.78	3131.91	1922.77	3135.24	1922.55	3136.36	1922.55
3144.91	1922.6	3147.66	1922.61	3152.74	1922.67	3169.65	1922.78	3174.29	1922.83
3178.33	1922.84	3184.17	1922.83	3196.74	1923	3239.79	1923	3247.52	1923.1
3255.88	1923.2	3260.93	1923.27	3283.41	1923.55	3321.36	1924	3330.83	1924.16
3331.53	1924.16	3343.68	1924.37	3385.98	1924.99	3386.76	1925	3439.56	1925
3449.01	1925.63	3454.75	1926	3472.71	1926.61	3477.07	1926.73	3486.94	1926.78
3494.09	1926.81	3509.61	1926.62	3529.5	1926.3	3529.67	1926.3	3549.3	1926
3558.97	1925.72	3567.7	1925.5	3568.11	1925.5	3583.9	1925.27	3596.53	1925.03
3600.19	1925.03	3602.72	1925	3605.8	1924.8	3623.16	1924	3674.76	1924
3678.67	1924.23	3679.26	1924.23	3683.72	1924.51	3686.9	1924.48	3687.66	1924.51
3693.41	1924.67	3695.52	1924.65	3710.64	1924.73	3731.58	1924.91	3738.95	1925
3896.38	1925	3906.13	1925.23	3919.7	1925.53	3922.82	1925.56	3934.2	1925.64
3941.03	1925.77	3946.29	1925.85	3949.14	1925.88	3952.52	1925.81	3968.82	1925.44
3969.89	1925.4	3976.45	1925.24	3983.02	1925.03	3985.92	1925	4080.99	1925
4105.92	1925.4	4141.68	1926	4190.52	1925.57	4233.04	1925.37	4254.42	1925.28
4257.25	1925.29	4262	1925.37	4272.45	1925.63	4274.93	1925.71	4276.71	1925.73
4277.61	1925.77	4285	1926	4293.99	1926.51	4299.54	1927	4307.14	1927.81
4308.73	1928	4315.36	1928.13	4319.84	1928.07	4322.79	1928	4330.04	1927.29
4332.84	1927	4340.75	1926.32	4345.08	1926	4357.61	1925.31	4362.07	1925
4371.66	1925	4377.26	1925.68	4380.96	1926	4384.95	1926.37	4390.8	1927
4393.03	1927.03	4399.19	1927	4408.74	1926.68	4413.48	1926.62	4414.22	1926.59
4421.68	1926.61	4423.4	1926.63	4426.77	1926.73	4435.01	1927.09	4441.17	1927.31
4444.67	1927.74	4446.31	1927.96	4448.93	1927.96	4460.4	1928	4468.82	1928.35
4483.08	1928.97	4486.91	1929	4498.39	1929.13	4501.74	1929.16	4512.18	1929.04
4514.35	1929	4520.3	1928.56	4524.93	1928	4532.45	1927.03	4532.77	1927
4541.91	1926.99	4549.14	1926.97	4556.91	1926.98	4562.88	1926.8	4563.58	1926.83
4565.74	1926.74	4571.25	1927	4572.4	1927.19	4574.68	1927.66	4576	1928
4576.54	1928.05	4582.19	1929	4587.38	1930	4591.43	1931	4594.07	1931.64
4595.31	1932	4598.16	1933	4602.33	1933.02	4605.75	1933	4610.19	1931.99
4612.34	1931.33	4613.68	1931	4615.44	1930.51	4619.84	1929.4	4623.55	1928.51
4625.88	1928	4630.03	1928	4631.84	1928.85	4633.22	1929.38	4634.25	1929.71
4638.07	1930.69	4639.19	1931	4642.68	1931.88	4643.43	1931.83	4646.75	1931.35
4648.87	1930.96	4651.28	1930	4653.58	1929.16	4656.29	1928.13	4658.49	1927.45
4659.76	1927	4661.35	1926.48	4668.68	1924	4671.24	1923.67	4671.58	1923.68
4673.38	1923.48	4673.71	1923.5	4679.85	1923.18	4682.98	1923.2	4687.96	1923.1
4691.43	1923.06	4695.29	1923	4971.04	1923	5003.49	1922.99	5024.46	1923
5085.12	1923	5086.32	1924	5087.64	1925	5089.91	1925.37	5091.41	1925.44
5092.68	1925.46	5095.16	1925	5156.67	1925	5161.52	1925.8	5162.59	1926
5168.98	1926.59	5173.14	1926.99	5173.5	1927.01	5174.79	1927.23	5176.82	1927.37
5178.71	1927.47	5179.55	1927.45	5183.28	1927.66	5183.88	1927.74	5185.22	1927.76
5186.51	1928.01	5187.96	1928.22	5188.87	1928.26	5189.9	1928.21	5191.33	1927.93
5192.15	1927.59	5193.13	1927	5194.33	1926	5195.22	1925.73	5199.11	1925
5303.21	1925	5353.5	1924.45	5397.61	1924	5442.93	1924	5443.21	1924.03
5458.65	1925.38	5465.69	1926	5469.73	1926.79	5474.36	1927.78	5474.8	1928
5478.71	1930.34	5481.57	1932	5483.06	1933	5485.19	1934.19	5486.58	1935
5487.5	1935.48	5491.24	1937.58	5492.81	1938.41	5496.89	1940.5	5500.6	1942.34
5501.89	1943	5535.09	1943	5541.21	1943.05	5589.16	1943.46	5648.94	1943.99

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	5648.94	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	5648.94	148.82	148.82	148.82	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1926.32	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.13	Wt. n-Val.		0.040	
W.S. Elev (ft)	1926.20	Reach Len. (ft)	148.82	148.82	148.82
Crit W.S. (ft)		Flow Area (sq ft)		7804.38	
E.G. Slope (ft/ft)	0.002352	Area (sq ft)		7804.38	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3879.06	Top Width (ft)		3879.06	
Vel Total (ft/s)	2.87	Avg. Vel. (ft/s)		2.87	
Max Chl Dpth (ft)	4.20	Hydr. Depth (ft)		2.01	
Conv. Total (cfs)	461834.1	Conv. (cfs)		461834.1	
Length Wtd. (ft)	148.82	Wetted Per. (ft)		3881.68	
Min Ch El (ft)	1922.00	Shear (lb/sq ft)		0.30	
Alpha	1.00	Stream Power (lb/ft s)	5648.94	0.00	0.00
Frctn Loss (ft)	0.33	Cum Volume (acre-ft)		1646.52	
C & E Loss (ft)	0.00	Cum SA (acres)		759.89	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -10465.2

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1926	273.79	1925	276.97	1924.98	279.42	1924.94	295.45	1924.7
297.51	1924.66	302.61	1924.54	313.39	1924.29	320.16	1924.18	325.41	1924
329.1	1923.96	389.05	1923.64	419.86	1923.49	433.79	1923.49	453.04	1923.38
482.51	1923.22	486.37	1923.2	488.06	1923.18	490.47	1923.18	491.26	1923.17
494.18	1923.17	495.14	1923.16	497.22	1923.16	498.2	1923.15	501.27	1923.15
503.65	1923.14	531.43	1923	741.07	1923	752.11	1922.98	766.72	1922.96
769.43	1922.96	795.84	1922.94	800.09	1922.94	812.09	1922.92	817.71	1922.92
823.37	1922.93	840.98	1922.94	858.44	1922.97	859.58	1922.98	864.18	1922.98
877.81	1922.97	884.23	1922.97	885.02	1922.96	893.1	1922.99	901.49	1922.98
929.33	1922.98	944.19	1923	973.75	1923.21	995.48	1923.27	1000.46	1923.21
1001.29	1923.21	1006.65	1923.17	1008.91	1923.17	1013.08	1923	1023.04	1923.01
1025.05	1923	1034.17	1923	1037.71	1922.77	1041.64	1922.66	1044.25	1922.57
1048.98	1922.39	1052.47	1922.25	1057.91	1922	1103.6	1922	1106.28	1921.27
1110.98	1920	1113.86	1919.97	1116.87	1920	1117.43	1920.14	1120.27	1921
1120.99	1921.23	1123.48	1922	1144.97	1922.92	1146.65	1923	1159.09	1923.02
1162.79	1923.03	1170.01	1923.02	1179.05	1923	1192.69	1922.98	1204.5	1922.96
1206.28	1922.96	1209.71	1922.95	1211.69	1922.95	1224.19	1922.97	1226.29	1922.98
1235.27	1922.99	1238.27	1922.99	1247.65	1923	1367.67	1923	1374.68	1923.06
1425.61	1923.47	1429.73	1923.48	1436.94	1923.46	1439.79	1923.46	1441.99	1923.45
1451.41	1923.35	1465.37	1923.19	1467.36	1923.17	1470.28	1923.12	1471.39	1923.12
1479.31	1923	1501.4	1923	1501.71	1923.01	1516.25	1923.24	1517.75	1923.27
1543.04	1923.97	1544.46	1924.02	1550.97	1924.44	1559.59	1925	1570.51	1925
1574.59	1924.8	1576.75	1924.67	1586.9	1924	1587.22	1924	1588.07	1923.92
1589.21	1923.79	1589.62	1923.76	1596.65	1923.39	1603.12	1923.03	1603.71	1923
1614.15	1923	1616.63	1923.1	1620.04	1923.25	1622.99	1923.41	1635.58	1924
1636.03	1924.04	1639.36	1924.28	1640.22	1924.31	1641.99	1924.4	1648.1	1924.57
1649.84	1924.58	1650.48	1924.56	1654.32	1924.62	1659.95	1924.37	1661.55	1924.27
1666.79	1924	1709.76	1924	1712.48	1924.02	1716.69	1924.25	1717.23	1924.29
1718.67	1924.35	1719.91	1924.43	1721.95	1924.54	1729.41	1925	1736.23	1925.46
1737.38	1925.53	1746.36	1926	1748.7	1926.04	1750.19	1926.05	1761.95	1926.84
1763.86	1927	1766.81	1927	1768.76	1926.87	1781.19	1926	1785.45	1925.65
1785.93	1925.63	1788.8	1925.44	1789.66	1925.44	1791.44	1925.37	1792.78	1925.33
1795.91	1925.34	1798.03	1925.37	1804.58	1925.57	1809.18	1925.65	1810.72	1925.65
1811.54	1925.68	1814.51	1925.59	1815.57	1925.61	1818.08	1925.57	1818.61	1925.54
1819.68	1925.52	1820.78	1925.44	1832.8	1925	1837.39	1924.79	1840.29	1924.67
1847.33	1924.45	1853.4	1924.27	1858.18	1924.15	1859.16	1924.13	1865.68	1924.02
1872.15	1923.86	1872.91	1923.85	1885.25	1923.89	1885.59	1923.87	1890.92	1923.88
1893.17	1923.84	1897.19	1923.72	1898.46	1923.65	1900.35	1923.59	1901.67	1923.53
1902.26	1923.49	1905.31	1923.32	1909.89	1923	1915.36	1922.61	1917.13	1922.58
1919.1	1922.57	1924.82	1922.58	1930.31	1922.28	1933.39	1922.07	1937.78	1922
1950.71	1921.99	1956.2	1921.98	1960.02	1921.99	1971.3	1922	1997.84	1922.57
2013.12	1922.79	2016.12	1922.82	2020.48	1922.85	2025.27	1922.9	2033.16	1923
2114.8	1923	2214.59	1924	2268.38	1924	2298.1	1924.6	2309.79	1924.83
2314.22	1924.83	2321.01	1924.99	2338.74	1924.99	2346.51	1925	2369.44	1925
2379.17	1924.99	2392.76	1924.99	2403.9	1925	2405.35	1925.08	2421.29	1926
2440.49	1926.93	2442.12	1927	2451.76	1927	2456.69	1926.93	2464.02	1926.74
2473.54	1926.54	2477.43	1926.43	2483.81	1926.24	2491.5	1926	2492.91	1926
2503.91	1925.4	2511.21	1925.01	2511.58	1925	2521.28	1924.98	2532.84	1924.5
2533.6	1924.49	2547.04	1924.45	2559.28	1924.44	2561.7	1924.43	2568.74	1924.41
2569.83	1924.39	2575.12	1924.4	2580.62	1924.43	2588.93	1924.45	2593.83	1924.48

2596.36	1924.46	2603.19	1924.29	2616.58	1924	2625.85	1924	2633.43	1924.02
2644.31	1924.04	2644.99	1924.02	2646.97	1924.02	2654.41	1924.08	2664.81	1924.2
2732.71	1925	2734.4	1925	2745.36	1924.78	2747.33	1924.78	2748.49	1924.77
2780.9	1924.93	2792.54	1925	3033.04	1925	3037.82	1925.12	3038.04	1925.11
3039.22	1925.14	3039.54	1925.13	3041.14	1925.15	3044.19	1925.12	3046.87	1925.11
3046.92	1925.12	3050.77	1925.12	3056.48	1925.27	3061.32	1925.39	3064.9	1925.47
3091.32	1925.91	3108.94	1925.91	3112.77	1925.9	3116.33	1925.91	3151.82	1925.69
3159.79	1925.57	3193.31	1925.24	3198.13	1925.21	3214.31	1925.08	3216.29	1925.06
3218.3	1925.09	3224.29	1925.19	3224.64	1925.17	3227.06	1925.43	3231.92	1925.9
3232.84	1926	3235.76	1926.45	3239.86	1927	3242.33	1928	3245.01	1929.1
3247.23	1930	3249.28	1930.81	3250.13	1931.16	3251.37	1931.6	3252.5	1931.93
3252.81	1932	3253.31	1932	3263.31	1931	3265.38	1930.67	3267.12	1930.94
3267.29	1930.93	3268.64	1931	3271.54	1931.59	3272.66	1931.64	3273.57	1931.65
3274.38	1931.62	3275.26	1931.56	3276.39	1931.43	3278.04	1931.15	3278.82	1931
3282.94	1929.97	3285.67	1929.25	3290.57	1928	3293.42	1927.28	3294.49	1927
3295.97	1926.55	3297.91	1926	3302.01	1925.57	3307.89	1925	3310.64	1925
3317.3	1924.99	3324.45	1924.99	3332.98	1925	3337.46	1925.18	3340.19	1925.26
3348.64	1925.5	3348.73	1925.49	3358.31	1925.38	3375.43	1925	3402.91	1925
3402.96	1925.01	3411.53	1926.37	3414.82	1926.93	3417.41	1927.36	3421.02	1928
3422.48	1928.2	3434.11	1929	3437.87	1929.2	3439.49	1929.28	3443.23	1929.48
3444.87	1929.53	3449.6	1929.69	3452.53	1929.71	3453.53	1929.71	3455.24	1929.69
3462.87	1929.38	3466.61	1929.28	3467.19	1929.25	3472.14	1929.11	3477.93	1929.01
3478.26	1929	3491.15	1928.83	3492.74	1928.8	3493.86	1928.75	3495.93	1928.6
3498.37	1928.51	3499.8	1928.39	3502.51	1928.24	3508.94	1927.51	3513.48	1927
3519.1	1926.36	3520.61	1926.17	3521.83	1926	3524.79	1926	3540.33	1925.99
3542.1	1925.99	3559.28	1926	3561.08	1926.1	3571.08	1926.28	3578.82	1926.32
3583.02	1926	3591.44	1925.52	3600.43	1925	3609.18	1924.42	3615.64	1924
3619.32	1923.87	3622.68	1923.76	3624.03	1923.71	3643.67	1923	3645.64	1923
3688.11	1922.82	3723.89	1922.68	3724.39	1922.67	3752.87	1922.56	3813.29	1922.31
3826	1922.25	3827.48	1922.24	3842.3	1922.18	3851.33	1922.15	3857.57	1922.12
3864.83	1922.08	3880.73	1922.01	3882.34	1922	4025.67	1922	4036.57	1922.45
4040.08	1922.55	4040.34	1922.55	4046.35	1922.68	4057.47	1922.57	4071.43	1922.95
4071.94	1923	4075.37	1923	4078.78	1923.14	4081.99	1923.26	4084.49	1923.18
4086	1923.15	4088.08	1923.18	4088.17	1923.17	4091.03	1923.16	4093.7	1923.16
4093.91	1923.17	4097.07	1923.2	4110.07	1923.47	4134.11	1923.99	4141.92	1923.99
4156.45	1924	4165.24	1924.45	4175.42	1925	4209.19	1925	4211.49	1924.92
4213.3	1924.87	4216.65	1924.76	4227.66	1924.42	4230.76	1924.35	4233.85	1924.25
4235.38	1924.23	4238.93	1924.12	4240	1924.1	4241.4	1924.09	4247.82	1924
4267.21	1924	4275.84	1923.99	4287.17	1924	4306.49	1924	4308.22	1924.17
4319.77	1925	4323.25	1925.36	4323.72	1925.42	4329.11	1926	4333.43	1926.58
4336.25	1927	4342.79	1928	4348.12	1929	4348.78	1929.29	4350.69	1930.16
4352.37	1931	4356.44	1932.84	4358.58	1934	4361.6	1935.61	4362.36	1936
4364.26	1937	4367.98	1939	4368.67	1939.38	4373.57	1942	4374.26	1942.34
4375.5	1943	4376.81	1943.73	4377.48	1944	4379.23	1944.91	4379.44	1945
4381.71	1945.02	4384.09	1945	4389.06	1944.53	4389.73	1944.45	4394.03	1944
4399.57	1944	4403.93	1943.81	4405.06	1943.84	4405.86	1943.81	4407.87	1943.82
4414.78	1943.6	4421.02	1943.46	4422.65	1943.48	4435.57	1943.45	4452.67	1943.31
4456.79	1943.26	4468.92	1943.1	4477.23	1943	4538.33	1943	4553.88	1943.13

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	4553.88	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	4553.88	157.11	157.11	157.11	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1925.99	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.12	Wt. n-Val.		0.040	
W.S. Elev (ft)	1925.87	Reach Len. (ft)	157.11	157.11	157.11
Crit W.S. (ft)		Flow Area (sq ft)		8063.71	
E.G. Slope (ft/ft)	0.002123	Area (sq ft)		8063.71	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3898.60	Top Width (ft)		3898.60	
Vel Total (ft/s)	2.78	Avg. Vel. (ft/s)		2.78	
Max Chl Dpth (ft)	5.90	Hydr. Depth (ft)		2.07	
Conv. Total (cfs)	486158.3	Conv. (cfs)		486158.3	
Length Wtd. (ft)	157.11	Wetted Per. (ft)		3900.07	
Min Ch El (ft)	1919.97	Shear (lb/sq ft)		0.27	
Alpha	1.00	Stream Power (lb/ft s)	4553.88	0.00	0.00
Frctn Loss (ft)	0.32	Cum Volume (acre-ft)		1619.42	
C & E Loss (ft)	0.00	Cum SA (acres)		746.60	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -10622.3

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1930.2	24.83	1930.11	46.82	1930.04	53.6	1930.01	55.87	1930.01

87.91	1929.89	94.44	1929.87	142.02	1929.71	154.93	1929.66	173.86	1929.6
342.24	1929.01	349.9	1928.98	364.32	1928.91	382.41	1928.83	408.34	1928.71
433.22	1928.59	437.4	1928.58	448.84	1928.52	463.66	1928.45	478.19	1928.39
489.63	1928.33	511.83	1928.22	548.81	1928.04	575.68	1927.92	593.33	1927.83
623.87	1927.69	657.89	1927.53	684.83	1927.39	694.07	1927.36	701.17	1927.33
706.38	1927.31	719.19	1927.25	727.64	1927.22	737.95	1927.17	760.24	1927.08
781.64	1926.99	788.02	1926.96	795	1926.94	796.12	1926.93	823.97	1926.82
844.18	1926.73	847.85	1926.72	850.91	1926.7	860.52	1926.66	907.76	1926.47
914.01	1926.44	926.42	1926.39	943.25	1926.33	950.91	1926.29	962.54	1926.25
976.35	1926.19	977.85	1926.19	1006.71	1926.07	1029.98	1925.98	1044.43	1925.92
1053.23	1925.6	1063.55	1925	1338.26	1925	1340.61	1924.99	1348.07	1924.88
1357.07	1924.67	1373.86	1924.37	1380.04	1924.16	1384.06	1924.01	1384.96	1924
1448.3	1923.64	1479.06	1923.48	1486.67	1923.48	1493.23	1923.47	1513.32	1923.36
1546.81	1923.16	1548.49	1923.14	1552.43	1923.13	1557.85	1923.1	1560.06	1923.1
1579.65	1923	1761.63	1923	1765.36	1922.99	1771.79	1922.99	1779.44	1922.92
1783.33	1922.91	1805.22	1922.8	1817.59	1922.78	1829.22	1922.75	1843.52	1922.72
1857.57	1922.71	1866.51	1922.69	1887.83	1922.69	1900.2	1922.71	1903.11	1922.72
1906.82	1922.75	1919.2	1922.78	1928.85	1922.81	1929.03	1922.8	1933.57	1922.79
1939.09	1922.76	1949.94	1922.75	1951.17	1922.74	1958.21	1922.73	1982.76	1922.78
2014.86	1922.95	2018.04	1923	2028.94	1923.03	2037.31	1923.02	2046.89	1923.02
2052.37	1923	2094.49	1923	2094.98	1922.91	2100.43	1922	2149.41	1922
2152.88	1921	2156.29	1920	2158.32	1919.37	2159.58	1919	2160.8	1919
2162.56	1919.51	2167.22	1920.82	2171.25	1922	2176.1	1922.12	2180.98	1922.25
2202.81	1922.96	2207.07	1922.97	2214.54	1922.97	2220.32	1922.83	2222.15	1922.85
2223.6	1922.84	2249.26	1922.95	2270.25	1922.91	2284.34	1922.94	2287.28	1922.95
2307.4	1923	2463.87	1923	2481	1922.97	2486.78	1922.97	2498.45	1922.96
2500.02	1922.97	2510.94	1922.97	2517.45	1922.99	2523.43	1923	2587.73	1923
2599.53	1923.34	2600.57	1923.39	2605.26	1923.46	2608.19	1923.46	2615.1	1923
2617.87	1922.78	2624.89	1922.2	2627.44	1922	2630.7	1921.77	2632.55	1921.71
2634.18	1921.68	2637.58	1921.71	2640.68	1921.7	2641.65	1921.67	2644.93	1921.69
2645.86	1921.63	2653.63	1921.5	2662.5	1921.57	2666.1	1921.71	2670.89	1922
2677.15	1922.68	2677.59	1922.72	2682.73	1923.03	2684.89	1923.1	2688.63	1923.13
2696.62	1923.13	2706.77	1923.27	2708.59	1923.24	2709.7	1923.2	2712.35	1923
2715.23	1922.85	2730.45	1922	2732	1921.91	2734.45	1921.92	2738.49	1921.98
2739.36	1921.97	2749.35	1921.72	2749.85	1921.74	2757.49	1921.74	2765.84	1921.81
2767.31	1921.85	2779.45	1921.94	2781.26	1921.96	2783.48	1921.96	2784.75	1921.99
2796.75	1921.95	2805.62	1921.94	2809.07	1922	2855.73	1922	2864.33	1921.79
2874.91	1921.67	2896.2	1921.03	2896.35	1921	2906.37	1921	2909.56	1921.27
2912.17	1921.33	2914.92	1921.27	2918.83	1921.28	2922.38	1921.4	2928.23	1922
2931.98	1922.37	2932.69	1922.42	2936.62	1922.57	2938.54	1922.71	2943.89	1922.85
2946.77	1922.89	2947.9	1922.96	2951.77	1923	2974.54	1922.95	2977.5	1922.96
2989.87	1922.98	2992.2	1922.99	3001.01	1923	3002.25	1923.01	3012.35	1923.01
3017.71	1923.02	3024.07	1923.02	3046.98	1923.04	3058.23	1923.04	3061.21	1923.05
3068.92	1923.05	3103.33	1923.61	3106.22	1923.64	3117.75	1923.73	3137.69	1923.91
3147	1924	3147.9	1924	3154.03	1924.05	3166.15	1924.26	3180.37	1924.41
3180.68	1924.42	3189.23	1924.25	3193.71	1924.18	3196.33	1924.2	3207.3	1924.11
3211.87	1924.08	3214.68	1924	3229.33	1924	3233.17	1923.99	3247.87	1923.99
3258.65	1924	3297.16	1924	3302.95	1923.66	3305.82	1923.61	3309.83	1923.46
3312.48	1923.39	3319.6	1923.12	3321.07	1923.09	3323.16	1923	3375.78	1923
3379.64	1923.14	3390.51	1923.29	3399.62	1923.28	3403.1	1923.07	3404.72	1923
3407.11	1923	3407.93	1923.02	3415.81	1923.33	3418.94	1923.27	3421.63	1923.09
3423.29	1923	3427.48	1922.81	3429.03	1922.76	3430.9	1922.82	3433.16	1922.92
3433.95	1923	3443.46	1923.62	3444.91	1923.71	3450.17	1924	3462.3	1924.54
3467.73	1925	3470.65	1925.61	3473.33	1926	3475.47	1926.35	3477.04	1926.52
3478.51	1926.62	3480.01	1926.68	3482.35	1926.66	3483.87	1926.57	3485.27	1926.45
3487.22	1926.25	3489.02	1926.04	3490.33	1925.86	3498.53	1925.01	3502.07	1925
3505.32	1924.94	3518.46	1924.98	3522.22	1925	3562.96	1924.99	3601.73	1925
3779.38	1925	3790.7	1924.64	3808.7	1924	3814.57	1924	3834.16	1923.99
3846.62	1923.99	3861.35	1924	3870.06	1924.09	3876.78	1924.15	3877.03	1924.16
3908.3	1924.45	3922.46	1924.57	3924.48	1924.6	3927.79	1924.62	3938.81	1924.79
3952.17	1925	3957.9	1925	3959.02	1925.05	3962.31	1925.13	3977.32	1925.51
3983.53	1925.66	3992.33	1925.82	3995.91	1925.89	3999.03	1925.92	4001.21	1925.92
4006.7	1925.81	4010.38	1925.72	4015.88	1925.57	4018.14	1925.56	4020.07	1925.51
4029.28	1925.18	4034.93	1925	4061.88	1925	4096.4	1925.58	4098.69	1925.57
4102.83	1925.51	4108.57	1925.4	4112.15	1925.43	4118.66	1925.22	4122.7	1925.1
4124.08	1925.11	4126.76	1925.02	4133.27	1925.06	4137.12	1925	4147.04	1924.93
4148.92	1924.93	4158.5	1924.85	4170.63	1924.76	4171.55	1924.76	4181.51	1925
4222.57	1925	4246.02	1926	4253.85	1926.06	4254.38	1926.07	4260.02	1926.02
4264.43	1925.99	4281.02	1925.39	4286.53	1925.2	4286.74	1925.2	4291.45	1925
4293.99	1924.99	4303.25	1924.84	4313.73	1924.75	4355.45	1924.37	4360.41	1924.33
4363.89	1924.29	4370.56	1924.23	4388.73	1924.06	4390.12	1924.04	4393.33	1924.06
4395.12	1924	4398.37	1923.99	4400.6	1924	4402.96	1923.99	4422.55	1923.99
4428.07	1923.98	4439.44	1924.01	4442.59	1924.26	4446.32	1924.54	4451.32	1924.81
4455.56	1925	4458.73	1926	4461.5	1926.89	4463.14	1927.4	4464.15	1927.64
4465.61	1927.9	4467.5	1928.11	4473.81	1928.26	4477.1	1928.35	4480.02	1928.56
4480.8	1928.57	4494.38	1928.27	4495.25	1928.22	4497.74	1928	4502.9	1927.59
4503.07	1927.59	4505.52	1927	4511.61	1926.91	4512.52	1926.93	4514.72	1926.9
4518.06	1926.91	4521.48	1926.9	4523.89	1926.88	4548.81	1926.95	4562.04	1927
4577.64	1927	4578.48	1927.78	4579.66	1928.82	4580.63	1929.57	4581.28	1930
4582.14	1930.37	4582.62	1930.39	4583.21	1930.32	4584.04	1930.13	4584.68	1929.92
4587.1	1929	4588.94	1928.25	4590.05	1927.93	4597.02	1926	4620.99	1925.53
4627.58	1925.07	4628.63	1925.07	4640.36	1925	4652.77	1924.06	4654.07	1924
4654.88	1924	4679.83	1923.55	4692.49	1923.32	4707.95	1923	4718.61	1922.82
4725.81	1922.78	4752.21	1922.44	4761.95	1922.41	4764.99	1922.37	4767.57	1922.35
4772.97	1922.29	4776.92	1922.28	4780.34	1922.25	4782.38	1922.25	4849.22	1922
5038.56	1922	5048.59	1921.99	5108.59	1921.99	5109.06	1922	5133.18	1922
5137.45	1922.27	5149.15	1923	5170.02	1923.01	5183.19	1923	5250.64	1923
5253.83	1923.6	5256.5	1924	5265.4	1925	5271.89	1926	5274.78	1927.02

5280.53	1929	5282.48	1930	5285.89	1932	5286.75	1932.53	5288.73	1933.66
5289.52	1934.14	5290.73	1935	5291.88	1935.93	5293.57	1937.2	5294.68	1938
5295.6	1938.72	5297.7	1940.32	5301.25	1943	5302.39	1943.9	5303.82	1944.99
5305.2	1946	5306.21	1946.79	5306.56	1947	5319.63	1947.01	5329.45	1947
5375.31	1947	5384.23	1946.83	5391.56	1946.79	5391.72	1946.78	5399.78	1946.72
5405.77	1946.64	5417.89	1946.49	5423.76	1946.45	5424.08	1946.44	5430.62	1946.42
5431.68	1946.4	5436.3	1946.38	5444.48	1946.36	5451.09	1946.3	5465.92	1946.07
5472.19	1946	5483.36	1945.89	5489.28	1945.82	5497.42	1945.71	5505.2	1945.61
5514.12	1945.47	5517.7	1945.42	5531.95	1945.25	5537.74	1945.17	5543.13	1945.11

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	5543.13	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	5543.13	231.16	231.16	231.16	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1925.67	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.11	Wt. n-Val.		0.040	
W.S. Elev (ft)	1925.55	Reach Len. (ft)	231.16	231.16	231.16
Crit W.S. (ft)		Flow Area (sq ft)		8259.22	
E.G. Slope (ft/ft)	0.001990	Area (sq ft)		8259.22	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3943.40	Top Width (ft)		3943.40	
Vel Total (ft/s)	2.71	Avg. Vel. (ft/s)		2.71	
Max Chl Dpth (ft)	6.55	Hydr. Depth (ft)		2.09	
Conv. Total (cfs)	502082.6	Conv. (cfs)		502082.6	
Length Wtd. (ft)	231.16	Wetted Per. (ft)		3945.37	
Min Ch El (ft)	1919.00	Shear (lb/sq ft)		0.26	
Alpha	1.00	Stream Power (lb/ft s)	5543.13	0.00	0.00
Frctn Loss (ft)	0.41	Cum Volume (acre-ft)		1589.98	
C & E Loss (ft)	0.00	Cum SA (acres)		732.46	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -10853.5

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1929.9	14.68	1929.85	90.2	1929.57	114.38	1929.48	116.11	1929.48
127.38	1929.44	145.3	1929.37	148.91	1929.36	159.65	1929.32	166.86	1929.29
171.21	1929.28	176.99	1929.25	206.15	1929.15	206.91	1929.14	209.6	1929.14
224.66	1929.08	233.77	1929.05	248.06	1928.99	253.17	1928.98	254.77	1928.97
448.2	1928.26	451.34	1928.24	467.54	1928.17	470.08	1928.15	487.89	1928.07
517.11	1927.93	545.19	1927.8	549.91	1927.78	562.85	1927.72	579.69	1927.64
595.93	1927.56	609.05	1927.5	634.24	1927.37	663.19	1927.23	678.18	1927.15
693.48	1927.08	706.92	1927.02	713.41	1926.98	725.45	1926.93	743.42	1926.84
746.43	1926.82	747.94	1926.82	786.49	1926.63	804.28	1926.54	814.67	1926.49
816.09	1926.49	828.54	1926.43	842.98	1926.37	848.97	1926.35	852.5	1926.33
889.3	1926.17	920.72	1926.04	928.62	1926	929.9	1926	961.45	1925.86
984.4	1925.76	988.17	1925.74	990.34	1925.74	995.34	1925.71	1002.96	1925.68
1016.46	1925.62	1027.5	1925.58	1030.41	1925.36	1032.71	1925.2	1035.8	1925
1312.97	1925	1317.01	1924.87	1322.45	1924.67	1328.39	1924.48	1329.85	1924.42
1337.55	1924.23	1339.82	1924.14	1340.98	1924.13	1345	1924.02	1349.03	1924.01
1351.92	1923.97	1356.37	1923.89	1359.38	1923.83	1365.8	1923.71	1377.35	1923.46
1379.02	1923.42	1385.9	1923.31	1400.98	1923.11	1407.26	1923.04	1408.53	1923.02
1411.84	1923	1456.21	1923	1456.62	1922.99	1465.62	1922.88	1467.33	1922.87
1488.7	1922.78	1504.62	1922.72	1505.74	1922.71	1514.9	1922.7	1540.3	1922.64
1542.92	1922.64	1548.29	1922.63	1560.2	1922.58	1570.37	1922.54	1573.74	1922.53
1580.93	1922.52	1588.62	1922.5	1596.54	1922.47	1605.5	1922.45	1613.24	1922.43
1626.18	1922.43	1632.12	1922.42	1642.49	1922.42	1683.69	1922.41	1729.38	1922.35
1740.36	1922.29	1740.76	1922.28	1744.38	1922.28	1747.82	1922.27	1756.32	1922.27
1765.42	1922.2	1776.55	1922.1	1777.04	1922.1	1787.52	1922	1800.28	1921.99
1818.2	1921.99	1823.25	1921.98	1832.49	1921.98	1855.4	1921.99	1874.03	1922
2183.51	1922	2186.37	1921.48	2192.82	1920	2195.08	1919.46	2197.05	1919
2199.32	1919	2204.94	1920.13	2208.77	1921	2212.96	1922	2218.58	1922.18
2226.18	1922.4	2233.66	1922.62	2246.96	1923	2273.27	1923	2276.14	1922.97
2276.34	1922.96	2291.58	1922.83	2294.23	1922.71	2304.48	1922.57	2304.99	1922.54
2306.55	1922.53	2312.9	1922.41	2314.79	1922.42	2317.66	1922.45	2320.02	1922.44
2322.1	1922.46	2325.29	1922.51	2329.42	1922.44	2335.12	1922.32	2336.11	1922.28
2341.11	1922.03	2341.59	1922	2345.44	1921.6	2351.57	1921.01	2352.49	1921.03
2353.34	1921.09	2361.25	1921.7	2365.02	1922	2375.77	1922.94	2376.63	1923
2377.83	1923	2382.74	1922.77	2394.48	1922.18	2398.6	1922	2402.11	1921.9
2407	1921.78	2415.75	1921.68	2421.77	1921.54	2428.05	1921.43	2431.79	1921.35
2434.12	1921.28	2441.4	1921	2726.76	1921	2731.36	1921.06	2740.77	1921.17
2741.39	1921.17	2745.74	1921.26	2759.12	1921.53	2762	1921.58	2765.87	1921.67
2767.21	1921.69	2774.14	1921.83	2776.62	1921.86	2782.61	1922	2811.34	1922
2858.44	1922.4	2880.15	1922.54	2892.97	1922.62	2916.36	1922.83	2934.84	1923
2939.91	1923	2945.81	1924	2947.23	1924.1	2949.09	1924.14	2950.42	1924

2953.28	1923.13	2953.68	1923	3007.31	1923	3016.84	1922.99	3019.3	1923
3057.5	1923	3059.66	1923.12	3076.64	1924	3076.9	1924.02	3086.98	1925
3091.12	1926	3092.62	1926.42	3093.11	1926.53	3095	1926.8	3095.84	1926.79
3096.84	1926.6	3098.72	1926	3102.46	1925	3106.29	1924.46	3110.84	1924
3154.63	1924	3172.6	1924.86	3175.77	1925	3212.12	1925	3217.98	1924.87
3219.91	1924.84	3220.37	1924.82	3223.27	1924.77	3224.64	1924.7	3227.82	1924.52
3234.65	1924	3238.84	1923.72	3243.16	1923.53	3245.54	1923.39	3253.53	1923
3331.74	1923	3333.98	1923.01	3347.9	1923.42	3349.48	1923.47	3368.68	1924
3369.28	1924	3385.63	1924.38	3399.52	1924.71	3413.54	1924.97	3415.38	1925
3424.91	1925	3431.69	1924.62	3435.61	1924.39	3440.79	1924.12	3442.9	1924
3444.66	1924	3461	1923.65	3469.52	1923.48	3473.89	1923.52	3496	1923.54
3515.59	1923.56	3517.12	1923.55	3543.93	1923.57	3572.27	1923.59	3573.99	1923.58
3574.57	1923.59	3579.92	1923.57	3581.67	1923.58	3585.44	1923.57	3591.81	1923.6
3592.83	1923.6	3600.82	1923.63	3620.61	1923.9	3627.27	1924	3667.7	1924
3667.88	1923.99	3696	1923.3	3700.44	1923.27	3701.33	1923.25	3715.37	1923.1
3717.29	1923.09	3724.59	1923	3804.34	1923	3888.1	1923.9	3892.67	1923.95
3895.1	1923.96	3900.74	1924	3902.5	1924	3903.92	1924.11	3904.87	1924.13
3911	1924.03	3911.51	1924	3912.7	1924	3914.42	1924.46	3915.51	1924.99
3916.81	1925	3918.11	1926	3919.34	1926.87	3919.81	1927.13	3920.17	1927.28
3921.26	1927.59	3922.31	1928	3923.52	1928.42	3925.07	1929	3928.54	1929
3931.11	1928.2	3931.87	1927.88	3933.09	1927.5	3934.94	1927	3938.12	1926.02
3942.41	1924.81	3943.01	1924.56	3943.9	1924	3944.17	1923.87	3947.04	1923
3952.33	1923	3955.29	1923.28	3957.41	1923.45	3959.38	1923.55	3962.8	1923.77
3965.87	1924	3977.63	1924.47	3987.96	1924.87	3991.5	1925	3994.19	1925.15
4002.48	1925.58	4004.7	1925.66	4007.2	1925.79	4008.39	1925.81	4014.46	1925.99
4016.47	1926	4037.6	1926	4038.58	1925.91	4048.34	1925.05	4048.94	1925
4057.3	1924.54	4064.24	1924	4069.93	1923.65	4077.96	1923.18	4080.77	1923
4118.27	1923	4120.42	1923.07	4149.2	1923.73	4154.12	1923.84	4155.19	1923.84
4165.55	1923.98	4166.68	1924	4180.17	1924	4195.38	1924.01	4215.88	1924.01
4223.8	1924	4278.06	1924	4279.06	1924.01	4293.3	1924.08	4303.17	1924.03
4308.44	1924	4328.83	1924	4335.42	1923.99	4338.98	1923.99	4342.89	1924
4349.98	1924	4367.21	1924.91	4369.72	1925	4370.41	1925.27	4371.32	1925.46
4371.99	1925.45	4373.02	1925.21	4373.65	1925	4377.37	1924.77	4378.23	1924.71
4379.91	1924.62	4386.01	1924.32	4390.43	1924.45	4391.48	1924.43	4392.04	1924.47
4393.42	1924.48	4394.76	1924.52	4401.94	1925	4407.78	1925.09	4409.98	1925.13
4421.88	1925.33	4432.75	1925.52	4450.17	1925.85	4457.14	1926	4461.38	1926.23
4474.65	1927	4483.32	1927.63	4484.46	1927.72	4488.27	1928	4493.37	1928.01
4497.9	1928.01	4511.5	1928.19	4526.61	1928.35	4529.13	1928.22	4532.8	1928
4534.9	1927.85	4537.89	1927.77	4549.13	1927.34	4561.67	1927.1	4562.54	1927.07
4567.54	1927	4570.13	1926.99	4571.46	1927	4593.47	1927	4596.13	1927.02
4599.01	1927	4603.06	1926.2	4604.14	1926	4605.74	1925.74	4611.25	1925
4612.11	1924.89	4613.52	1924.67	4614.12	1924.56	4618.14	1924	4619.36	1923.89
4620.51	1923.76	4625.46	1923	4685.43	1923	4711.73	1922.24	4720.18	1922
4739.54	1921.61	4740.29	1921.6	4747.44	1921.46	4754.89	1921.3	4760.1	1921.2
4761.97	1921.17	4765.61	1921.14	4784.33	1921.2	4833.1	1921.37	4838.54	1921.39
4840.04	1921.4	4852.32	1921.46	4858.61	1921.5	4860.02	1921.5	4865.5	1921.54
4872.95	1921.58	4874.4	1921.58	4945.72	1922	5051.88	1922	5067.23	1921.53
5089.56	1921.04	5091.2	1921	5128.86	1921	5129.72	1921.01	5132.51	1921.07
5135.85	1921.27	5139	1921.42	5144.85	1921.77	5146.83	1921.86	5147.2	1921.89
5149.19	1921.96	5155.25	1922.2	5157.14	1922.33	5157.56	1922.39	5161.77	1922.58
5162.81	1922.69	5164.19	1922.78	5166.82	1923	5169.87	1924	5171.43	1924.52
5172.82	1925	5175.64	1925.89	5179.45	1927	5182.51	1927.95	5186.49	1929
5187.66	1929.53	5188.78	1930	5189.77	1930.73	5192.08	1932.41	5195.77	1934.57
5198.2	1936	5201.69	1938.04	5203.14	1939	5205.05	1940.11	5205.68	1940.44
5206.55	1941	5210.14	1943.19	5213.06	1945	5213.64	1945.33	5214.73	1946
5215.4	1946.38	5216.41	1947	5272.05	1947.93	5275.91	1948	5331.14	1948
5403.17	1947.34	5421.89	1947.17	5426.46	1947.14	5450.27	1947	5453.31	1946.98
5471.32	1946.88	5473.87	1946.87	5489.86	1946.77	5490.65	1946.77	5496.59	1946.73

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	5496.59	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	5496.59	178.64	178.64	178.64	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1925.25	Element	Left OB	Channel	Right OB	
Vel Head (ft)	0.10	Wt. n-Val.		0.040		
W.S. Elev (ft)	1925.15	Reach Len. (ft)	178.64	178.64	178.64	
Crit W.S. (ft)		Flow Area (sq ft)		8763.90		
E.G. Slope (ft/ft)	0.001581	Area (sq ft)		8763.90		
Q Total (cfs)	22400.00	Flow (cfs)		22400.00		
Top Width (ft)	3846.23	Top Width (ft)		3846.23		
Vel Total (ft/s)	2.56	Avg. Vel. (ft/s)		2.56		
Max Chl Dpth (ft)	6.15	Hydr. Depth (ft)		2.28		
Conv. Total (cfs)	563441.6	Conv. (cfs)		563441.6		
Length Wtd. (ft)	178.64	Wetted Per. (ft)		3849.23		
Min Ch El (ft)	1919.00	Shear (lb/sq ft)		0.22		
Alpha	1.00	Stream Power (lb/ft s)	5496.59	0.00	0.00	
Frctn Loss (ft)	0.28	Cum Volume (acre-ft)		1544.81		
C & E Loss (ft)	0.00	Cum SA (acres)		711.79		

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -11032.1

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1929.81	94.68	1929.47	174.82	1929.17	200.52	1929.07	205.36	1929.06
208.46	1929.04	233.42	1928.95	237.27	1928.94	242.93	1928.91	247.92	1928.9
250.98	1928.88	256.38	1928.86	261.02	1928.85	267.18	1928.82	298.27	1928.71
299.45	1928.7	318.03	1928.63	327.76	1928.6	350.19	1928.51	551.73	1927.76
560.99	1927.71	578.42	1927.63	581.17	1927.62	600.35	1927.53	631.84	1927.38
662.14	1927.23	667.25	1927.21	699.33	1927.05	716.98	1926.97	731.17	1926.9
758.43	1926.76	797	1926.57	827.98	1926.42	834.98	1926.38	847.98	1926.32
867.38	1926.22	872.26	1926.2	913.92	1925.99	935.72	1925.89	938.81	1925.87
944.33	1925.85	966.19	1925.75	972.64	1925.73	988.97	1925.65	1016.11	1925.54
1042.21	1925.42	1050.01	1925.39	1053.21	1925.37	1056.1	1925.29	1065.94	1924.99
1073.43	1924.54	1086.22	1924.51	1100.01	1924.47	1119.35	1924.55	1145.95	1924.65
1147.53	1924.64	1148.82	1924.66	1153.53	1924.64	1155.27	1924.66	1160.27	1924.61
1164.89	1924.51	1167.88	1924.51	1170.86	1924.48	1173.41	1924.44	1179.65	1924.44
1180.52	1924.41	1187.58	1924.39	1187.98	1924.38	1193.81	1924.34	1194.32	1924.33
1206.35	1924.26	1214.44	1924.22	1218.25	1924.3	1225.53	1924.43	1230.43	1924.51
1240.23	1924.69	1241.33	1924.7	1244.28	1924.76	1246.97	1924.77	1256.9	1924.84
1261.95	1924.88	1267.91	1924.82	1273.45	1924.8	1280.66	1924.7	1292.51	1924.62
1303.76	1924.44	1305.53	1924.43	1313.14	1924.3	1317.78	1924.25	1322.65	1924.21
1332.03	1924	1347.45	1923.69	1350.33	1923.65	1364.16	1923.4	1370.53	1923.3
1375.51	1923.24	1384.24	1923.17	1385.57	1923.15	1397.53	1923	1407.2	1923
1415.9	1922.99	1430.64	1922.98	1440.67	1922.98	1459.45	1922.97	1503.14	1922.97
1510.06	1922.98	1512.65	1922.95	1545.17	1922.52	1579.02	1922.08	1581.67	1922.06
1586.49	1922.05	1590.28	1922.03	1604.22	1922.01	1609.41	1922.01	1612.73	1922
1654.64	1922	1695.73	1922.02	1719.81	1922.03	1731.24	1922.03	1745.37	1922.02
1751.99	1922.02	1753.42	1922.01	1767.81	1922.01	1785.83	1922	1819.4	1921.8
1835.04	1921.71	1885.94	1921.6	1925.66	1921.55	1929.36	1921.56	1938.61	1921.56
1943.92	1921.55	1949.2	1921.53	1956.49	1921.52	1994.81	1921.68	2067.06	1921.98
2068.69	1922	2201.26	1922	2204.1	1921.59	2208.95	1921	2215.22	1920.46
2220.2	1920	2227.69	1919.97	2229.58	1919.82	2233.85	1919.98	2239.76	1920
2247.44	1920.96	2248.24	1921.07	2254.19	1922	2264.7	1922.76	2268.27	1923
2274.96	1923.01	2287.2	1923.01	2289.84	1923.02	2293.75	1923	2302	1922.16
2304.72	1922.06	2310.62	1922	2317.53	1921.81	2317.77	1921.83	2319.64	1921.79
2323.63	1921.84	2325.2	1921.9	2327.81	1921.91	2334	1921.78	2344.12	1921.53
2351.38	1921.37	2359.87	1921	2363.19	1920.88	2366.06	1920.83	2378.28	1920.49
2384.65	1920.41	2387.6	1920.34	2392.18	1920.27	2394.48	1920.26	2396.81	1920.23
2398.35	1920.23	2400.34	1920.18	2402.32	1920.15	2405.85	1920.15	2414.55	1920.24
2420.95	1920.3	2424.39	1920.3	2500.75	1921	2550.29	1921	2555.78	1921.01
2560.15	1921	2565.57	1921.01	2588.29	1921.01	2646.03	1921.84	2653.31	1922
2654.92	1922.26	2655.51	1922.31	2660.95	1923	2662.61	1923	2666.81	1922.29
2668.27	1922	2682.96	1922	2688.63	1922.46	2694.9	1923	2697.4	1924
2698.76	1924.61	2699.8	1925	2701.4	1925.64	2705.8	1927.27	2706.42	1927.49
2710.91	1929	2711.78	1929	2712.81	1928.69	2718.23	1927	2720.1	1926.44
2724.14	1925.15	2725.86	1924.64	2730.05	1923.53	2732.01	1923	2735.79	1922
2762.71	1921.49	2772.36	1921.31	2782.58	1921.13	2794.66	1921	2819.55	1921
2822.06	1921.03	2824.91	1921.09	2828.5	1921.21	2832.84	1921.33	2839.11	1921.54
2853.5	1922	2854.13	1922	2861.41	1922.06	2866.85	1922.11	2872.15	1922.14
2878.52	1922.2	2892.84	1922.3	2942.3	1922.67	2963.2	1922.83	2986.94	1923
2997.94	1923	2999.31	1923.23	3000.22	1923.33	3002.22	1923.37	3008.42	1923
3074.26	1923	3104.95	1923.11	3116.56	1923.07	3122.13	1923.06	3138.41	1923.01
3141.36	1923.01	3142.81	1922.99	3146.64	1922.97	3149.63	1922.97	3155.43	1923.02
3157.39	1923	3162.29	1923	3179.74	1922.98	3185.02	1922.98	3201.56	1923
3226.82	1923	3253.29	1923.72	3259.18	1923.84	3264.27	1924	3266.76	1924.01
3274.02	1924.02	3284.61	1924.04	3290.63	1924.06	3299.55	1924.08	3308.73	1924.08
3336.93	1924.92	3338.51	1925	3410.86	1925	3418.67	1924.51	3425.4	1924
3427.77	1924	3447.24	1923.67	3492.98	1923	3573.15	1923	3621.95	1922.99
3659.55	1922.99	3661.56	1923	3751.26	1923	3761.06	1922.99	3767.34	1922.99
3769.11	1923	3829.97	1923	3835.37	1923.01	3860.13	1923.01	3865.33	1923
3919.23	1923	3927.95	1923.51	3935.87	1924	3941.57	1924.28	3955.35	1925
3996.39	1925	4007.76	1924.43	4009.85	1924.39	4012.37	1924.29	4026.23	1924.15
4031	1924.07	4032.68	1924.05	4040.86	1924.03	4045.88	1924.05	4049.6	1924.02
4059.44	1924.04	4064.57	1924.03	4066.17	1924.04	4072.19	1924	4081.89	1923.96
4085.44	1923.96	4103.63	1923.92	4116.65	1923.93	4130.74	1923.92	4149.64	1923.97
4165.53	1923.98	4169.04	1924	4169.25	1924.03	4174.37	1925	4177.37	1925.84
4178.32	1926.08	4179.35	1926.01	4180.71	1926	4183.4	1925	4185.05	1924.54
4186.81	1924	4190	1923	4293.83	1923	4299.63	1923.1	4301.71	1923.12
4308.1	1923.22	4309.21	1923.23	4330.6	1923.54	4347.88	1923.8	4361.49	1924
4371.88	1924.05	4383.37	1924.08	4383.7	1924.09	4390.77	1924.06	4404.45	1924.01
4405.65	1924	4411.04	1923.63	4420.61	1923	4442.32	1923	4458.44	1923.54
4463.31	1923.63	4470.27	1923.84	4476.27	1923.99	4476.77	1923.99	4479.65	1923.85
4486.04	1923.41	4492.11	1923	4509.95	1923	4515.31	1923.61	4519.02	1924
4522.74	1924.9	4528.22	1926.19	4528.83	1926.38	4530.16	1926.73	4535.48	1928
4538.57	1929	4541.95	1930.04	4547.64	1932	4551.13	1933.22	4551.78	1933.22
4553.51	1933.49	4560.06	1933.54	4568.26	1933.62	4572.46	1933.65	4574.05	1933.6
4576.8	1933.4	4577.4	1933.34	4579.16	1933	4582.1	1932.38	4584.51	1932
4591.38	1931.53	4593.9	1931.37	4597.21	1931	4599.17	1930.33	4599.91	1930
4605.01	1927.62	4608.31	1926.23	4608.82	1926	4611.6	1925.74	4612.21	1925.55
4613.53	1925.49	4618.49	1925.89	4619.01	1926	4619.36	1925.99	4626.25	1925.23
4629.52	1925.27	4634.43	1925.43	4642.49	1925.52	4643.37	1925.52	4646.91	1925.75
4648.91	1925.98	4649.36	1926	4650.01	1926.4	4651.21	1927	4651.92	1927.39

4653.76	1928.23	4654.66	1928.45	4657.08	1928	4661.57	1927.5	4665.14	1927.14
4666.81	1926.92	4668.05	1926.64	4669.42	1926.29	4671.31	1925.77	4673.94	1925
4677.6	1924	4680.66	1923.85	4684.24	1923.65	4694.05	1923	4707.43	1922.83
4768.98	1922.01	4770.63	1922	4772.56	1921.94	4799.15	1921	4932.31	1921
4937.91	1921.06	4949.16	1921.15	4951.19	1921.15	4994.11	1921.08	4998.85	1921.06
5014.4	1921.04	5017.59	1921.03	5025.4	1921.03	5046.61	1921	5053.45	1921
5073.14	1920.99	5084.97	1920.99	5111.69	1921	5116.43	1921	5121.2	1921.33
5130.7	1922	5138.53	1922.74	5141.38	1923	5147.01	1924	5150.21	1924.96
5153.86	1926	5157.54	1927	5159.07	1927.38	5164.27	1928.71	5165.71	1929.13
5168.78	1930	5170.43	1930.8	5170.99	1931	5174.33	1934	5176.6	1936
5177.94	1937.26	5178.84	1938	5182.14	1941	5182.87	1941.43	5184.72	1942.42
5186.98	1943.55	5190.1	1945.18	5191.24	1946	5192.32	1946	5200.87	1945.83
5209.9	1945.83	5213.17	1945.84	5214.04	1945.82	5229	1945.57	5229.61	1945.57
5240.09	1945.63	5253.27	1945.71	5255.48	1945.76	5261.98	1945.83	5276.69	1945.92
5277.84	1945.92	5292.12	1945.99	5294.95	1945.98	5303.23	1945.9	5316.49	1945.78
5321.76	1945.74	5327.35	1945.73	5336.74	1945.69	5339.82	1945.67	5343.73	1945.67
5348.69	1945.66	5358.34	1945.65	5363.92	1945.67	5370.68	1945.67	5377.54	1945.64
5382.85	1945.64	5387.27	1945.63	5395.99	1945.58	5402.3	1945.56	5409.39	1945.49
5414.27	1945.46	5419.89	1945.41	5442.4	1945.33	5452.03	1945.3	5457.71	1945.3

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	5457.71	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	5457.71	228.13	228.13	228.13	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1924.97	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.10	Wt. n-Val.		0.040	
W.S. Elev (ft)	1924.86	Reach Len. (ft)	228.13	228.13	228.13
Crit W.S. (ft)		Flow Area (sq ft)		8648.21	
E.G. Slope (ft/ft)	0.001606	Area (sq ft)		8648.21	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3765.69	Top Width (ft)		3765.69	
Vel Total (ft/s)	2.59	Avg. Vel. (ft/s)		2.59	
Max Chl Dpth (ft)	5.04	Hydr. Depth (ft)		2.30	
Conv. Total (cfs)	558959.8	Conv. (cfs)		558959.8	
Length Wtd. (ft)	228.13	Wetted Per. (ft)		3768.32	
Min Ch El (ft)	1919.82	Shear (lb/sq ft)		0.23	
Alpha	1.00	Stream Power (lb/ft s)	5457.71	0.00	0.00
Frctn Loss (ft)	0.39	Cum Volume (acre-ft)		1509.11	
C & E Loss (ft)	0.00	Cum SA (acres)		696.18	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -11260.2

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1929.71	208.73	1928.94	329.38	1928.47	332.77	1928.45	339.21	1928.43
360.08	1928.35	364.3	1928.33	370.5	1928.31	373.59	1928.29	375.97	1928.29
379.32	1928.27	385.24	1928.25	389.36	1928.23	395.27	1928.21	397.08	1928.2
431.21	1928.07	432.5	1928.07	435.26	1928.05	452.92	1927.99	459.8	1927.96
463.63	1927.94	480.43	1927.88	488.32	1927.85	711.48	1926.98	721.79	1926.93
741.22	1926.84	744.28	1926.82	765.67	1926.72	800.85	1926.55	834.75	1926.38
840.46	1926.35	856.11	1926.28	876.51	1926.18	912.16	1926	942.83	1925.84
972.71	1925.69	1007.34	1925.52	1015.17	1925.48	1029.71	1925.41	1051.44	1925.3
1056.92	1925.27	1091.12	1925.1	1097.01	1924.56	1097.42	1924.55	1099.19	1924.4
1103.66	1924.42	1104.76	1924.36	1109.35	1924.38	1110.04	1924.35	1113.32	1924.36
1118.39	1924.19	1145.93	1923.97	1154.55	1923.96	1162.87	1923.97	1169.75	1923.97
1187.53	1923.96	1194.81	1923.96	1203.07	1923.95	1205.02	1923.96	1212.22	1923.96
1216.57	1923.97	1225.31	1923.98	1232.2	1923.98	1253.44	1924	1289.2	1924
1297.37	1924.01	1304.38	1924	1350.38	1924	1350.95	1923.99	1355.74	1923.86
1375.1	1923.31	1381.43	1923.18	1387.71	1923	1401.35	1922.71	1402.15	1922.7
1412.72	1922.49	1413.16	1922.49	1418.64	1922.37	1420.36	1922.39	1421.95	1922.35
1426.6	1922.27	1431.22	1922.31	1433.74	1922.28	1438.21	1922.24	1460.44	1922.36
1553.04	1922.98	1554.8	1923	1611.58	1923	1649.35	1922	1738.39	1922
1752.97	1922.01	1757.79	1922	1786.27	1922	1801.27	1921.85	1803.94	1921.83
1809.38	1921.76	1832.25	1921.51	1836.34	1921.47	1845.01	1921.36	1858.19	1921.26
1876.78	1921.1	1878.98	1921.07	1881.95	1921.05	1885.02	1921.02	1887.19	1921.02
1893.62	1921	1910.64	1921.01	1938.15	1921.01	1949.88	1921	1968.7	1921
1971.51	1920.99	1976.93	1920.99	1997.81	1920.98	2014.05	1920.99	2026.26	1921
2035.32	1921	2067.5	1921.5	2069.48	1921.52	2072.72	1921.57	2106.53	1921.97
2108.92	1922	2126.21	1922	2144.87	1921.67	2145.49	1921.65	2152.9	1921.52
2155.62	1921.48	2158.82	1921.42	2165.27	1921.32	2169.34	1921.27	2173.03	1921.25
2175.92	1921.25	2191.03	1921.21	2208.07	1921.16	2220.76	1921	2221.04	1920.98
2236.81	1920	2244.14	1919.51	2245.5	1919.39	2248.8	1919.16	2250.48	1919
2328.93	1919	2334.18	1919.01	2359.22	1919.47	2359.5	1919.48	2373.85	1919.8
2375.41	1919.83	2381.91	1919.99	2384.1	1920	2392.69	1920.06	2406.48	1920.15

2421.09	1920.23	2423.4	1920.25	2427.98	1920.27	2443.82	1920.37	2451.51	1920.42
2460.85	1920.47	2471.38	1920.54	2477.98	1920.57	2483.63	1920.6	2484.09	1920.61
2489.43	1920.63	2500.51	1920.68	2513.7	1920.75	2518.59	1920.78	2532.47	1920.95
2536.37	1921	2581.89	1921	2601.61	1921.18	2609.87	1921.26	2630.1	1921.43
2657.17	1921.64	2662.27	1921.7	2670.87	1921.78	2676.22	1921.84	2678.37	1921.85
2680.9	1921.88	2686.21	1921.91	2694.06	1921.96	2701.1	1921.98	2701.48	1922
2713.7	1922	2722.64	1922.01	2738.88	1922.01	2740.41	1922.02	2744.77	1922.02
2763.51	1922.04	2773.84	1922.03	2795.97	1922.05	2808.61	1922.03	2811.1	1922.03
2827.05	1922.25	2835.12	1922.14	2836.78	1922.13	2841.78	1922.25	2843.77	1922.27
2848.79	1922.36	2855.1	1922.49	2862.08	1922.61	2866.5	1922.68	2876.05	1922.51
2903.67	1922	2953.07	1922	2955.2	1922.01	2968.39	1922.09	2991.37	1922.22
2994.73	1922.23	2998.5	1922.27	3018.41	1922.37	3063.34	1922.6	3123.9	1923
3124.43	1923	3127.83	1923.24	3128.22	1923.26	3133.24	1923.44	3136.85	1923.53
3140.72	1923.57	3142.26	1923.53	3150.13	1923.56	3160.01	1923.41	3163.17	1923.3
3165.3	1923.26	3171.69	1923	3183.12	1922	3231.27	1922	3239.55	1922.26
3250.45	1922.57	3264.08	1923	3276.27	1923.38	3281.52	1923.54	3295.33	1924
3316.02	1924	3322.1	1924.01	3329.26	1924	3357.72	1924	3363.03	1924.14
3364.41	1924.15	3368.2	1924.25	3376.6	1924.49	3383.09	1924.7	3383.65	1924.71
3396.52	1925	3407.75	1925	3412.6	1924.89	3417.77	1924.71	3430.68	1924.32
3437.65	1923.9	3448.88	1923.28	3459.45	1923	3508.57	1923	3515.26	1922.95
3539.44	1922.21	3544.31	1922.07	3546.58	1922	3558.13	1921.98	3561.36	1921.98
3562.06	1921.97	3569.48	1921.99	3576.17	1922	3577.01	1922.65	3578.2	1923.6
3579.02	1924	3581.1	1924.83	3588.28	1927.42	3594.31	1929.54	3595.57	1930
3598.24	1931	3599.53	1931.43	3600.19	1931.56	3602.93	1932	3607.63	1932.84
3608.58	1933	3618.93	1933	3621.72	1932.54	3623.18	1932.32	3624.71	1932
3628.76	1931.73	3629.95	1931.66	3640.18	1931	3640.92	1931	3641.65	1931.06
3643.27	1931.1	3647.11	1931.16	3650.82	1931.13	3652.36	1931	3654.18	1930.44
3655.45	1930	3657.4	1929.44	3659.45	1928.71	3661.22	1928	3665.65	1926.32
3666.44	1926	3668.32	1925.29	3672.41	1923.67	3673.91	1923	3691.69	1923
3698.77	1923.01	3703.93	1923.01	3714.8	1923	3721.24	1922.99	3743.99	1922.98
3776.56	1922.96	3811.93	1922.98	3814.47	1922.98	3814.99	1922.99	3829.58	1922.99
3837.53	1923	3885.96	1923	3902.4	1922.76	3921.54	1922.78	3940	1922.97
3946.68	1923	3950.36	1923.16	3960.92	1923.61	3969.51	1923.77	3973.08	1923.86
3981.64	1923.97	3985.98	1924.01	3987.82	1924.01	3990.8	1923.95	3998.82	1923.7
4002.2	1923.65	4004.76	1923.57	4010.42	1923.61	4012.42	1923.49	4014.31	1923.35
4015.95	1923.29	4021.45	1923	4078.36	1923	4093.83	1923.78	4098.12	1924
4147.06	1924	4160.94	1923.71	4166.16	1923.53	4170	1923.38	4179.32	1923
4316.24	1923	4317.51	1923.57	4318.86	1924.09	4319.54	1924.21	4320.43	1924.25
4321.2	1924.13	4325.81	1923	4373.39	1923	4376.14	1923.01	4380.18	1923.01
4381.51	1923	4383.42	1923.01	4393.72	1923.02	4396.02	1923.01	4399.58	1923.01
4401.35	1923	4406.3	1923	4435.47	1922.99	4461.94	1923	4465.12	1922.93
4468.01	1922.95	4470.42	1922.95	4476.89	1923	4529.98	1923	4530.5	1923.16
4531.8	1923.61	4533.03	1924	4534.86	1924.52	4537	1925.01	4539.84	1925.52
4542.7	1926	4543.58	1926.16	4544.41	1926.15	4545.23	1926.11	4545.81	1926
4548.66	1925.3	4549.55	1925.16	4550.31	1925	4554.58	1924	4559.65	1923.98
4562.89	1923.99	4563.13	1924	4570.98	1924.61	4580.38	1925	4584.07	1926
4585.81	1926.45	4586.09	1926.48	4587.78	1926.46	4588.91	1926.41	4590.34	1926.19
4591.46	1926	4598.52	1925.99	4602.7	1925.99	4608.66	1926	4609.04	1926.15
4610.75	1927	4614.5	1928.35	4616.42	1929	4619.57	1929	4620.38	1928.81
4620.86	1928.73	4624.33	1928	4626.51	1927.97	4628.93	1927.99	4629.5	1927.98
4631.36	1927.99	4634	1927.98	4638.06	1927.68	4639.24	1927.64	4650.06	1927
4652.31	1926.99	4654.91	1926.99	4659.29	1926.8	4660.98	1926.79	4669.85	1926.39
4674.18	1926.17	4677.7	1926	4678.16	1925.99	4680.51	1925.88	4683	1925.82
4691.32	1925.42	4691.99	1925.42	4696.14	1925.56	4705.27	1925.92	4706.01	1926
4707.89	1926.02	4710.61	1926	4712.78	1925.91	4723.84	1925	4724.48	1924.94
4735.02	1924	4737.64	1923.79	4739.35	1923.68	4742.12	1923.52	4750.48	1923
4764.19	1923	4766.9	1922.99	4769.83	1923	4785.2	1923	4786.17	1922.99
4789.75	1922.77	4793.56	1922.52	4801.02	1922	4810.19	1921.59	4821.92	1921
4921.71	1921	5017.25	1920.23	5028.51	1920.17	5037.23	1920.12	5055.84	1920
5067.23	1920	5083.19	1919.99	5083.71	1919.98	5094.25	1919.97	5099.68	1919.98
5108.77	1919.99	5110.19	1920	5112.78	1920	5114.41	1920.13	5125.66	1921
5132.07	1921.47	5138.43	1922	5148.12	1923	5151.69	1923.96	5155.49	1925
5159.84	1926.11	5163.25	1927.07	5167.39	1928.54	5168.66	1929	5171.6	1930
5173.33	1930.67	5173.63	1931	5175.05	1932.91	5175.2	1933.08	5177.54	1936
5179.1	1937.9	5180.11	1939.18	5181.59	1941	5185.63	1946	5186.39	1947
5189.69	1947	5209.84	1946	5227.79	1945.37	5236.96	1945	5238.22	1944.97
5252.44	1944.3	5258.57	1944	5260.83	1943.87	5268.63	1943.64	5290.22	1943.01
5296.28	1943	5331.69	1942.06	5335.05	1941.96	5364.75	1941	5500.99	1941

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	5500.99	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	5500.99	226.83	226.83	226.83	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1924.58	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.11	Wt. n-Val.		0.040	
W.S. Elev (ft)	1924.47	Reach Len. (ft)	226.83	226.83	226.83
Crit W.S. (ft)		Flow Area (sq ft)		8329.12	
E.G. Slope (ft/ft)	0.001801	Area (sq ft)		8329.12	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3736.19	Top Width (ft)		3736.19	
Vel Total (ft/s)	2.69	Avg. Vel. (ft/s)		2.69	
Max Chl Dpth (ft)	5.47	Hydr. Depth (ft)		2.23	
Conv. Total (cfs)	527776.1	Conv. (cfs)		527776.1	

Length Wtd. (ft)	226.83	Wetted Per. (ft)		3738.75	
Min Ch El (ft)	1919.00	Shear (lb/sq ft)		0.25	
Alpha	1.00	Stream Power (lb/ft s)	5500.99	0.00	0.00
Frctn Loss (ft)	0.41	Cum Volume (acre-ft)		1464.65	
C & E Loss (ft)	0.00	Cum SA (acres)		676.54	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -11487.1

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1929.64	337.78	1928.35	432.05	1927.97	462.43	1927.85	468.15	1927.83
476.91	1927.79	478.8	1927.79	501.41	1927.7	512.71	1927.65	518.63	1927.63
522.27	1927.61	528.69	1927.59	536.24	1927.56	539.58	1927.54	541.54	1927.54
578.59	1927.39	582.99	1927.37	595.57	1927.32	602.19	1927.29	609.68	1927.26
613.84	1927.25	632.12	1927.17	638.65	1927.15	640.71	1927.14	884.56	1926.17
891.74	1926.14	895.87	1926.11	917.19	1926.01	920.55	1925.99	944.05	1925.88
982.73	1925.69	1020.04	1925.5	1043.23	1925.39	1043.58	1925.39	1066.08	1925.28
1087.83	1925.17	1088.02	1925.17	1138.19	1924.91	1142.98	1924.75	1163.81	1924.58
1172.23	1924.48	1252.53	1923.97	1286.94	1923.97	1290.81	1923.99	1294.62	1923.99
1294.74	1924	1361.28	1924	1362	1923.99	1374.66	1923.7	1392.46	1923.26
1393.44	1923.23	1402.6	1923	1418.48	1922.52	1431.06	1922.18	1437.03	1922
1507.47	1922	1532.41	1922.23	1545.15	1922.35	1546.06	1922.35	1608.46	1922.65
1636.2	1922.71	1640.8	1922.69	1642.35	1922.69	1647.37	1922.66	1653.7	1922.66
1658.53	1922.62	1667.64	1922.54	1682.71	1922.37	1694.33	1922.22	1697.07	1922.21
1710.89	1922	1724.35	1922	1854.73	1921.24	1856.04	1921.24	1867.65	1921.12
1878.11	1921	1881.62	1921	1888.3	1920.96	1912.73	1920.82	1914.38	1920.82
1965.05	1920.64	1998.73	1920.54	2002.15	1920.54	2027.73	1920.65	2069.95	1920.89
2075.65	1920.96	2080.33	1921	2093.67	1921.03	2100.09	1921.05	2109.11	1921.07
2112.11	1921.07	2162.91	1921.51	2164.12	1921.51	2169.5	1921.67	2172.09	1921.65
2175.24	1921.6	2175.45	1921.61	2177.53	1921.54	2178.34	1921.49	2181.09	1921.29
2182.23	1921.55	2183.18	1921.32	2183.33	1921.35	2183.78	1921.24	2183.95	1921.29
2184.31	1921.19	2184.5	1921.24	2185.01	1921.12	2185.33	1921.13	2185.91	1921.36
2187.73	1922	2188.56	1922.17	2189.3	1922.26	2189.81	1922.29	2190.48	1922.27
2192.67	1922.09	2193.38	1922.06	2196.11	1922.11	2197.24	1922.1	2199.56	1921.98
2206.51	1921.29	2207.38	1921.16	2208.16	1921	2208.9	1920.8	2210.47	1920.33
2212.57	1920	2221.97	1919.74	2222.83	1919.74	2224.71	1919.77	2227.93	1919.69
2231.92	1919.58	2244.76	1919	2266.63	1919	2274.71	1918.99	2281.66	1918.99
2286.35	1919	2318.04	1919	2340.85	1919.38	2353.18	1919.58	2354.88	1919.6
2369.87	1920	2372.87	1920	2377.7	1920.01	2421.14	1920.01	2429.41	1920.02
2439.65	1920.01	2444.71	1920.01	2461.53	1920.19	2461.71	1920.19	2469.58	1920.31
2470.99	1920.32	2481.7	1920.48	2485.48	1920.53	2516.94	1921	2648.11	1921
2650.48	1921.01	2663.79	1921.23	2666.45	1921.28	2671.84	1921.35	2672.67	1921.37
2677.22	1921.4	2677.87	1921.42	2714.39	1922	2881.07	1922	2890.42	1922.16
2900.39	1922.32	2920.35	1922.42	2925.66	1922.55	2942.89	1922.49	2949.15	1922.35
2960.9	1922.03	2961.92	1922	2985.46	1922	2989.83	1921.99	3007.63	1921.99
3028.24	1921.61	3030.62	1921.61	3031.6	1921.62	3054.29	1921.66	3057.66	1921.68
3094.05	1922	3241.21	1922	3242.16	1922.01	3245.14	1922.07	3246.36	1922.07
3251.84	1922.16	3252.32	1922.16	3253.09	1922.21	3262.63	1922.7	3267.65	1923
3272.44	1923.61	3280.45	1924.48	3283.34	1924.78	3285.31	1924.84	3286.33	1924.81
3289.83	1924.74	3291.41	1924.65	3293.61	1924.61	3301.24	1924.26	3306.99	1924.06
3308.25	1924.08	3310.48	1924.04	3311.89	1924	3317.98	1923.74	3324.98	1923.47
3328.55	1923.34	3329.29	1923.32	3334.37	1923.14	3335.28	1923.13	3340.31	1923
3420.07	1923	3421.4	1923.01	3425.26	1923.06	3425.94	1923.06	3428.35	1923.09
3455.82	1923.03	3469.24	1923	3563.74	1923	3578.69	1923.26	3586.65	1923.39
3587.71	1923.41	3601.77	1923.64	3602.93	1923.65	3607.8	1923.73	3622.18	1923.75
3638.95	1923.68	3639.66	1923.68	3647.15	1923.51	3649.46	1923.5	3659.99	1923.24
3661.69	1923.23	3665.43	1923.12	3668.07	1923.09	3670.36	1923.04	3671.46	1923
3730.77	1923	3754.38	1922.55	3755.78	1922.53	3762.29	1922.46	3788.53	1922
3796.74	1922	3803.7	1921.77	3813.58	1921.46	3817.97	1921.34	3820.87	1921.29
3829.36	1921.41	3855.39	1921.99	3857.03	1922	3857.77	1921.98	3859.45	1921.99
3869.13	1921.99	3871.54	1922	3887.27	1922.16	3889.37	1922.26	3897.13	1922.34
3898.34	1922.45	3899.88	1922.39	3902.27	1922.15	3902.56	1922.28	3903.26	1922.47
3905.67	1923	3906.98	1923.24	3910.48	1923.86	3911.12	1923.98	3913.41	1924.32
3914	1924.38	3915.15	1924.4	3916.55	1924.26	3918.42	1924	3923.54	1923.2
3924.98	1923	3927.99	1922.38	3928.29	1922.39	3929.67	1922.51	3931.95	1922.73
3932.22	1922.72	3938.86	1922.64	3944.49	1922.59	3946.85	1922.67	3959.63	1922.65
3976.04	1922.58	3976.28	1922.57	3994.53	1922.16	3996.22	1922.13	4001.49	1922
4006.25	1921.86	4029.89	1921.2	4037.36	1921	4045.31	1921	4045.99	1921.12
4050.78	1922	4053.64	1922.53	4056.25	1923	4061.81	1923.88	4062.26	1923.94
4072.38	1925	4079.14	1925	4079.69	1924.67	4080.58	1924	4081.05	1923.71
4082.05	1923	4083.5	1922	4113.62	1922	4117.89	1922.01	4122.19	1922
4151.24	1922	4162.59	1921.98	4165.08	1921.98	4173.78	1921.97	4227.9	1921.35
4245.93	1921.16	4246.17	1921.16	4260.95	1921.02	4263.36	1921	4270.78	1921
4274.34	1921.15	4277.63	1921.22	4287	1921.43	4311.44	1922	4319.3	1922.59
4321.32	1922.64	4325.73	1922.73	4327.23	1922.8	4328.19	1922.83	4329.53	1922.85
4331.94	1922.83	4333.8	1922.87	4336.23	1922.83	4353.74	1922.99	4382	1922.99
4395.98	1923	4411.57	1923	4419.43	1923.19	4430.94	1923.28	4440.28	1923.34
4441.77	1923.33	4442.67	1923.34	4449.11	1923.27	4457.59	1923.12	4461.06	1923
4484.9	1923	4491.94	1923.08	4495.12	1923.06	4498.76	1923.28	4501.62	1923.34

4503.05	1923.39	4505.66	1923.45	4507.82	1923.55	4513.7	1923.64	4516.97	1923.77
4520.06	1923.79	4521.28	1923.79	4525.21	1923.81	4531.1	1923.69	4532.4	1923.68
4533.42	1923.65	4545.79	1923	4563.2	1923	4565.47	1923.02	4568.73	1923.03
4578.21	1923.33	4578.69	1923.35	4582.77	1923.44	4592.22	1923.47	4600.84	1923.49
4602.61	1923.53	4607.71	1923.01	4608.03	1923	4610.02	1922.87	4611.87	1922.78
4612.31	1922.72	4614.22	1922.69	4614.78	1922.64	4616.69	1922.43	4618.46	1922.39
4621.08	1922	4621.7	1921.98	4623	1921.99	4628.06	1921.17	4628.7	1921.12
4630.73	1921.09	4632.09	1921.11	4634.77	1921.17	4639.43	1921.34	4642.85	1921.45
4659.41	1922	4660.48	1922.43	4662.03	1923	4664.52	1924	4666.51	1924.84
4669.78	1926	4671.8	1926	4674.7	1925.7	4681.39	1925	4684.18	1924.8
4686	1924.7	4686.08	1924.71	4688.87	1924.66	4691.42	1924.65	4694.4	1924.71
4697.95	1924.93	4701.74	1924.91	4703.12	1924.93	4704.93	1924.94	4708.52	1924.98
4708.98	1925	4711.05	1925	4712.16	1925.01	4715.81	1925.01	4719.41	1925
4741.92	1925	4745.88	1924.83	4749.21	1924.72	4757.26	1924.4	4760.01	1924.3
4764.19	1924.25	4764.39	1924.26	4771.51	1923.71	4779.89	1923.13	4781.6	1923
4783.12	1922.91	4788.61	1922.56	4796.95	1922	4798.04	1922	4803.04	1921.81
4808.29	1921.63	4818.75	1921.54	4835.92	1921.39	4837.82	1921.36	4856.35	1921
4921.46	1921	4932.37	1921.01	4950.69	1921.01	4981.04	1921	4996.86	1920.79
5009.23	1920.69	5020.82	1920.58	5079.16	1920.01	5083.34	1920.01	5086.38	1920
5098.24	1920	5101.33	1919.95	5115.35	1919.92	5118.29	1919.91	5135.57	1919.82
5156.76	1919.91	5170.61	1919.96	5171.83	1919.98	5174.51	1919.98	5176	1920
5181.07	1920.17	5192.72	1921	5193.41	1921.14	5198.49	1922	5201.94	1922.53
5204.66	1923	5206.05	1924	5209.28	1926.34	5210.22	1927	5211.44	1928
5212.14	1930	5213.22	1933	5214.02	1935.13	5214.65	1936.17	5215.42	1937.38
5216.03	1938.46	5216.31	1939	5216.93	1940	5217.45	1941	5219.81	1945
5224.09	1945.05	5225.35	1945.03	5228.29	1945	5246.89	1944.06	5248.16	1944
5249.41	1943.98	5250.72	1943.98	5279.95	1943	5284.96	1943	5304.59	1942.73
5328.79	1942.41	5346.88	1942.21	5366.88	1942	5384.67	1941.71	5403.11	1941.36
5414.87	1941.16	5422.38	1941	5460.82	1940.07	5463.93	1940	5526.06	1940

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	5526.06	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	5526.06	170.89	170.89	170.89	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1924.16	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.11	Wt. n-Val.		0.040	
W.S. Elev (ft)	1924.05	Reach Len. (ft)	170.89	170.89	170.89
Crit W.S. (ft)		Flow Area (sq ft)		8320.73	
E.G. Slope (ft/ft)	0.001853	Area (sq ft)		8320.73	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3806.47	Top Width (ft)		3806.47	
Vel Total (ft/s)	2.69	Avg. Vel. (ft/s)		2.69	
Max Chl Dpth (ft)	5.06	Hydr. Depth (ft)		2.19	
Conv. Total (cfs)	520319.2	Conv. (cfs)		520319.2	
Length Wtd. (ft)	170.89	Wetted Per. (ft)		3809.79	
Min Ch El (ft)	1918.99	Shear (lb/sq ft)		0.25	
Alpha	1.00	Stream Power (lb/ft s)	5526.06	0.00	0.00
Frctn Loss (ft)	0.28	Cum Volume (acre-ft)		1421.30	
C & E Loss (ft)	0.01	Cum SA (acres)		656.90	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -11657.9

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1929.53	13.3	1929.45	443.03	1927.76	545.26	1927.34	578.28	1927.21
580.65	1927.2	588.5	1927.16	591.92	1927.15	596.09	1927.13	633.02	1926.98
636.66	1926.97	637.99	1926.96	639.48	1926.96	643.44	1926.94	655.31	1926.89
656.45	1926.89	664.45	1926.85	704.92	1926.69	706.45	1926.68	709.73	1926.67
723.48	1926.61	730.72	1926.58	738.9	1926.55	743.46	1926.53	763.46	1926.45
772.88	1926.41	1041.3	1925.31	1049.24	1925.27	1053.81	1925.25	1077.42	1925.13
1081.14	1925.12	1107.19	1924.99	1150.11	1924.77	1162.07	1924.71	1163.98	1923.3
1165.62	1923	1169.77	1923	1178.76	1923.06	1203.6	1923.22	1226.39	1923.36
1240.01	1923.44	1249.02	1923.49	1255.1	1923.52	1261.91	1923.56	1264.26	1923.57
1264.74	1923.58	1292.88	1923.64	1316.82	1923.64	1321.74	1923.59	1328.24	1923.53
1329.78	1923.52	1339.01	1923.41	1349.4	1923.42	1360.98	1923.48	1361.69	1923.49
1363.71	1923.49	1375.14	1923.3	1375.34	1923.3	1387.54	1923.05	1390.2	1923
1394.5	1922.87	1395.91	1922.82	1418.18	1922	1533.04	1922	1535.08	1922.01
1586.73	1922.06	1618.84	1922.1	1656.02	1922.06	1682.6	1922.04	1704.13	1922.08
1717.7	1922	1717.94	1922	1750.13	1921.75	1757.11	1921.69	1763.12	1921.62
1764.06	1921.62	1769.47	1921.56	1777.94	1921.48	1784.32	1921.43	1786.03	1921.41
1796.27	1921.33	1802.13	1921.26	1815.95	1921.17	1817.59	1921.15	1830.21	1921.08
1830.53	1921.07	1846.15	1921	1847.94	1921	1850.45	1920.99	1862.31	1920.95
1868.58	1920.92	1870.4	1920.92	1870.59	1920.91	1889.94	1920.82	1894.83	1920.79
1902.12	1920.73	1904.09	1920.72	1923.32	1920.61	1930.4	1920.58	1936.14	1920.53

1937.12	1920.53	1944.86	1920.47	1953	1920.41	1957.84	1920.37	1959.12	1920.37
1962.58	1920.34	1963.75	1920.34	1969.44	1920.29	1973.79	1920.26	1974.09	1920.25
1976.46	1920.25	1989.19	1920.2	2003.45	1920.15	2007.51	1920.13	2008.52	1920.12
2023.88	1920.07	2041.37	1920	2079.24	1920	2084.04	1919.99	2089.04	1919.99
2091.39	1920	2098.75	1920	2107.1	1919.9	2109.21	1919.89	2115.62	1919.92
2117.64	1919.91	2119.49	1919.81	2120.49	1919.79	2122.55	1919.71	2126.53	1919.48
2135.99	1919	2139.25	1918.97	2143.71	1918.89	2175.05	1918.39	2181.94	1918.15
2186.46	1918	2228.94	1918	2229.87	1918.01	2243.29	1918.52	2248.59	1918.7
2249.26	1918.71	2252.48	1918.8	2253.24	1918.83	2259.21	1919	2267.68	1919.37
2272.48	1919.55	2276.47	1919.66	2277.34	1919.69	2278.74	1919.72	2280.83	1919.74
2284.06	1919.75	2285.66	1919.74	2294.85	1919.61	2296.13	1919.64	2297.91	1919.63
2301.86	1919.65	2304.51	1919.7	2307.62	1919.73	2310.57	1919.72	2318.83	1919.67
2319.73	1919.69	2327.73	1919.69	2335.99	1919.71	2355.24	1919.94	2359.9	1920
2360.26	1920.01	2380.9	1920.38	2383.61	1920.42	2386.03	1920.45	2394.39	1920.54
2400.06	1920.62	2402.26	1920.64	2407.49	1920.67	2412.94	1920.72	2413.35	1920.71
2416.77	1920.75	2417.2	1920.74	2419.14	1920.75	2420.94	1920.71	2422.96	1920.74
2430.09	1920.59	2434.22	1920.63	2462.32	1920.51	2482.33	1920.45	2489.61	1920.49
2494.43	1920.5	2498.95	1920.52	2508.46	1920.58	2521	1920.68	2521.22	1920.68
2536.14	1920.83	2536.27	1920.83	2550.59	1921	2552.72	1921	2618.93	1921.38
2621.42	1921.4	2656.77	1921.6	2659.62	1921.61	2726.83	1922	2738.69	1922
2742.9	1921.95	2747.13	1921.96	2756.38	1922	2845.78	1922	2889.87	1921.84
2927.29	1921.73	2929.49	1921.78	2933.2	1921.82	2938.5	1921.89	2939.84	1921.89
2948.97	1921.99	2953.72	1922.01	2957.63	1922.01	2958.71	1922	2961.62	1921.93
2964.05	1921.86	2997.88	1921	3104.26	1921	3120.32	1921.13	3132.19	1921.09
3141.07	1921.05	3145.07	1921.04	3147.14	1921.04	3158.96	1921	3257.44	1921
3266.83	1921.19	3269.53	1921.26	3270.25	1921.29	3278.78	1921.48	3282.77	1921.6
3292.86	1921.87	3293.23	1921.89	3296.66	1922	3298.63	1922	3308.16	1922.07
3310.15	1922.08	3313.47	1922.11	3325.04	1922.27	3351.2	1922.79	3373.4	1923
3379.15	1922.99	3398.17	1922.99	3416.89	1922.36	3418.6	1922.34	3422.05	1922.32
3424.99	1922.29	3431.5	1922.23	3440.41	1922.15	3449.01	1922.07	3450.55	1922.05
3451.59	1922.05	3454.07	1922.03	3457.07	1922.03	3457.11	1922.04	3459.44	1922.04
3461.69	1922.05	3463.6	1922.07	3464.52	1922.07	3466.5	1922.09	3475.76	1922.27
3512.31	1922.99	3560.23	1922.99	3565.53	1923	3582.71	1923	3589.78	1923.17
3596.19	1923.19	3609.8	1923.38	3618.36	1923.49	3624.04	1923.55	3628.67	1923.59
3657.3	1923.61	3688.26	1923.55	3695.82	1923.48	3703.84	1923.4	3715.84	1923.27
3720.8	1923.23	3723.94	1923.21	3727.89	1923.19	3729.53	1923.17	3745.18	1923
3777.2	1923	3784.09	1922.88	3800.9	1922.63	3833.95	1922.17	3835.35	1922.16
3837.13	1922.11	3839.33	1922.16	3841.55	1922	3844.33	1922	3884.52	1921.39
3894.27	1921.24	3900.57	1921.14	3904.07	1921.09	3907.81	1921	3928.88	1921
3937.68	1921.05	3939.22	1921.07	3940.73	1921.08	3943.58	1921.12	3945.91	1921.14
3960.63	1921.35	3971.95	1921.46	3997.53	1921.78	4001.38	1921.83	4012.52	1922
4115.9	1922	4153.87	1921.7	4179.44	1921.51	4208.48	1921.34	4223.08	1921.26
4223.65	1921.25	4227.93	1921.24	4229.01	1921.23	4246.29	1921.01	4246.79	1921
4386.45	1921	4395.37	1921.11	4411.04	1921.29	4411.41	1921.29	4419.43	1921.39
4430.5	1921.51	4438.03	1921.59	4445.98	1921.73	4459.34	1921.99	4459.92	1922
4475.57	1922.39	4482.94	1922.57	4491.8	1922.77	4493.79	1922.82	4498.87	1922.99
4499.84	1923	4502.95	1923	4509.44	1923.25	4522.71	1923.47	4530.94	1923.44
4531.2	1923.43	4537.16	1923.48	4537.87	1923.47	4541.63	1923.55	4546.95	1923.55
4548.88	1923.54	4550.84	1923.49	4554.25	1923.34	4557.56	1923.18	4561.04	1923
4604.71	1922.13	4605.4	1922.11	4609.93	1922.02	4611.26	1922	4623.73	1922
4639.69	1921.65	4641.57	1921.61	4651	1921.02	4651.84	1921.04	4667.13	1921.6
4667.25	1921.6	4671.28	1921.82	4674.4	1922	4678.33	1922	4685.36	1922.32
4686.38	1922.36	4700.03	1923	4724.67	1923	4729.82	1922.99	4738.09	1922.99
4744.36	1923	4762.04	1923	4763.99	1923.1	4768.76	1923.31	4771.29	1923.43
4776.92	1923.69	4783.55	1924	4786.24	1924.22	4790.53	1924.55	4791.2	1924.61
4792.66	1924.68	4795.14	1924.89	4798.37	1925	4798.54	1925	4801.7	1926
4802.58	1926.3	4804.79	1927	4806.67	1927.66	4810.3	1928.83	4811.23	1929.07
4811.81	1929.18	4812.51	1929.24	4813.24	1929.28	4813.97	1929.28	4814.55	1929.26
4815.28	1929.2	4815.91	1929.12	4816.68	1928.98	4817.37	1928.79	4818.13	1928.52
4819.26	1928	4821.73	1927	4823.44	1926.3	4826.65	1925	4831.39	1924.16
4832.37	1924	4844.58	1923.11	4846.04	1923	4846.62	1922.93	4854.95	1922
4863.77	1921	4875.31	1920.62	4901.1	1920	4931.54	1920	4934.55	1920.12
4957.6	1921	5024.8	1921	5027.58	1920.95	5028.73	1920.94	5032.24	1920.87
5050.65	1920.47	5057.33	1920.33	5061.81	1920.23	5063.51	1920.2	5070.24	1920.05
5072.61	1920	5073.5	1920	5122.65	1919.33	5125.14	1919.3	5148.01	1919
5190.05	1919	5193.52	1919.19	5209.15	1920	5213.92	1920.42	5221.52	1921
5226.28	1921.49	5231.71	1922	5236.62	1922.61	5239.55	1923	5241.21	1924.21
5242.52	1925	5244.36	1926	5246.16	1927	5246.93	1928	5247.29	1929
5248.34	1932	5248.51	1932.5	5249.86	1936.34	5250.25	1937.4	5250.67	1938
5250.84	1938.67	5251.18	1939.26	5251.58	1940	5252.25	1941	5253.41	1943
5254.01	1943.03	5258.69	1943.21	5260.1	1943.17	5264.15	1943	5270.67	1942.61
5273.06	1942.48	5276.68	1942.27	5278.41	1942.18	5280.54	1942.09	5282.04	1942.04
5283.4	1942.02	5285.86	1942.02	5287.18	1942.03	5289.4	1942.06	5291.53	1942.07
5292.64	1942.09	5298.83	1942.22	5301.24	1942.25	5310.23	1942.35	5318.8	1942.32
5324.17	1942.17	5329.44	1942	5349.03	1941.75	5352.64	1941.72	5356.84	1941.67
5360.47	1941.62	5363.64	1941.57	5379.88	1941.29	5381.27	1941.26	5395.99	1941
5407.5	1940.87	5414.38	1940.82	5438.79	1940.57	5440.02	1940.56	5460.06	1940.43
5481.69	1940.24	5490.27	1940.17	5505.88	1940.01	5520.36	1940	5547.29	1940

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	5547.29	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	5547.29	355.58	355.58	355.58	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1923.87	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.10	Wt. n-Val.		0.040	
W.S. Elev (ft)	1923.78	Reach Len. (ft)	355.58	355.58	355.58
Crit W.S. (ft)		Flow Area (sq ft)		9047.15	
E.G. Slope (ft/ft)	0.001507	Area (sq ft)		9047.15	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	4020.59	Top Width (ft)		4020.59	
Vel Total (ft/s)	2.48	Avg. Vel. (ft/s)		2.48	
Max Chl Dpth (ft)	5.78	Hydr. Depth (ft)		2.25	
Conv. Total (cfs)	577003.4	Conv. (cfs)		577003.4	
Length Wtd. (ft)	355.58	Wetted Per. (ft)		4021.75	
Min Ch El (ft)	1918.00	Shear (lb/sq ft)		0.21	
Alpha	1.00	Stream Power (lb/ft s)	5547.29	0.00	0.00
Frctn Loss (ft)	0.60	Cum Volume (acre-ft)		1387.23	
C & E Loss (ft)	0.00	Cum SA (acres)		641.55	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -12013.5

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1929.26	53.92	1928.95	546.76	1926.86	667.57	1926.33	706.9	1926.16
709.73	1926.15	719.1	1926.11	719.94	1926.1	723.2	1926.09	728.18	1926.07
757.66	1925.94	763.63	1925.91	776.81	1925.85	778.4	1925.85	781.41	1925.83
782.69	1925.83	793.38	1925.78	799.24	1925.76	800.61	1925.75	810.25	1925.71
859.13	1925.49	860.99	1925.49	864.95	1925.47	881.63	1925.4	890.42	1925.36
900.36	1925.31	905.9	1925.29	930.26	1925.18	938.99	1925.14	941.1	1925.14
941.74	1925.13	1142.36	1924.26	1154.49	1923.53	1154.77	1923.51	1156.91	1923.4
1159.94	1923.25	1161.33	1923	1186.43	1923	1189.81	1923.01	1195.64	1923.01
1215.22	1923.02	1237.99	1923.02	1247.97	1923.01	1253.3	1923.01	1263.41	1923
1265.66	1923	1268.83	1923.01	1273	1923.01	1276.55	1923	1283.74	1923
1289.35	1923.01	1292.62	1923	1297.33	1923	1301	1922.87	1308.69	1922.61
1309.58	1922.57	1329.01	1922	1583.46	1922	1595.53	1922.01	1602.73	1922.01
1613.56	1922	1620.7	1922	1623.21	1921.98	1630.38	1921.8	1640.45	1921.58
1647.93	1921.37	1658.73	1921.02	1659.68	1921	1807.2	1921	1881.93	1920.03
1884.06	1920	1894.22	1919.98	1933.93	1919.65	1966.41	1919.41	1966.95	1919.41
1978.67	1919.26	1979.46	1919.26	1985.23	1919.18	1985.62	1919.17	1987.71	1919.17
1989.82	1919.16	2000.33	1919	2004.91	1918.49	2006.47	1918.29	2007.87	1918.16
2008.78	1918.12	2009.66	1918.03	2011.21	1918.04	2012.58	1918.02	2016.66	1918.06
2020.46	1918.02	2021.49	1917.99	2029.89	1917.95	2036.92	1917.95	2056.15	1917.9
2056.66	1917.9	2065.5	1917.87	2069.54	1917.88	2080.35	1917.89	2097.97	1917.94
2102.13	1917.95	2103.81	1917.95	2109.18	1917.97	2109.93	1917.97	2120.98	1918
2122.13	1918.04	2133.16	1918.5	2143.2	1918.92	2144.79	1919	2145.15	1919
2147.4	1919.12	2150.09	1919.25	2151.27	1919.32	2164.74	1920	2198.4	1920
2208.27	1919.91	2215.08	1919.86	2224.65	1919.8	2224.95	1919.8	2256.44	1919.96
2264.72	1919.95	2295.77	1919.95	2311.39	1919.94	2315.73	1919.95	2319.43	1919.95
2329.51	1919.96	2332.34	1919.96	2344.67	1919.97	2384.87	1920	2397.53	1920
2399.46	1920.03	2421.45	1920.29	2421.92	1920.29	2516.56	1920.96	2524.42	1920.97
2526.86	1920.97	2538.26	1921	2551.95	1921.11	2552.12	1921.11	2601.58	1921.39
2627.65	1921.53	2629.98	1921.54	2650.96	1921.42	2686.39	1921.22	2689.65	1921.16
2700.34	1921	2702.83	1920.98	2714.08	1920.75	2725.34	1920.59	2726.24	1920.59
2734.87	1920.38	2736.47	1920.35	2753.5	1919.92	2753.9	1919.92	2761.21	1919.75
2763.08	1919.75	2791.86	1919.85	2796.18	1919.9	2808.58	1919.94	2810.34	1919.95
2813.48	1919.95	2814.04	1919.96	2819.12	1919.97	2820.69	1919.98	2823.97	1919.99
2833.78	1919.99	2835.11	1920.01	2841.84	1920.16	2853.97	1920.45	2854.25	1920.45
2858.26	1920.54	2861.17	1920.6	2862.19	1920.6	2886.63	1920.95	2890.34	1920.94
2892.82	1920.94	2894.56	1920.95	2898.54	1920.95	2902.3	1920.96	2910.2	1920.96
2910.63	1920.97	2918.96	1920.97	2920.6	1920.98	2947.47	1920.98	2960.68	1920.99
2965.26	1920.99	2968.32	1921	3266.4	1921	3275.34	1921.42	3275.67	1921.43
3289.83	1922	3296.59	1922.21	3324.68	1923	3328.77	1924.73	3331.24	1925.77
3331.87	1926	3334.61	1926.97	3336.8	1927.65	3337.32	1927.79	3339.01	1928.27
3339.88	1928.48	3341.96	1929	3342.77	1929	3343.92	1928.74	3345.2	1928.43
3347.64	1927.8	3350.34	1927	3353.72	1926.09	3354.54	1925.88	3359.6	1925
3363.84	1924.23	3365.15	1924	3367.05	1923.74	3371.49	1923	3636.3	1923
3657.59	1923.65	3659.38	1923.71	3664.71	1923.85	3666.07	1923.89	3668.65	1923.94
3672.8	1924	3676.18	1924.01	3676.89	1924.02	3679.6	1924.02	3699.74	1924.73
3701.23	1924.77	3703.81	1924.86	3707.4	1925	3743.86	1925	3749.37	1924.65
3758.77	1924	3760.71	1923.91	3767.61	1923.53	3768.25	1923.5	3773.34	1923.2
3773.83	1923.18	3777.09	1923	3818.86	1922.98	3834.91	1922.98	3835.24	1922.99
3849.12	1922.99	3854.08	1922.67	3854.76	1922.66	3856.15	1922.58	3856.79	1922.56
3858.91	1922.41	3863.91	1922	3865.47	1921.98	3873.72	1921.64	3882.01	1921.3
3887.29	1921.07	3888.82	1921	3897.49	1921.02	3899.9	1921.03	3903.69	1921.04
3912.99	1921.02	3919.57	1921	3919.99	1921.04	3923.42	1921.07	3924.15	1921.07
3928.97	1921.04	3933.25	1921	3951.21	1921	3952.89	1921.89	3954.95	1922.9
3957.21	1924	3957.4	1924.1	3959.52	1925.12	3961.45	1926.03	3965.45	1928
3965.97	1928.29	3966.16	1928.35	3967.17	1928.39	3968.16	1928.4	3969.29	1928
3972.38	1926.93	3973.18	1926.58	3973.65	1926.34	3977.53	1925	3980.4	1924
3982.64	1923.19	3983.99	1922.79	3991.09	1921	4042.4	1921	4045.9	1921.01
4047.8	1921.01	4093.66	1921.03	4101.95	1921.04	4113.16	1921.03	4127.34	1921.02
4139.78	1921.02	4162.28	1921	4170.08	1920.98	4174.91	1920.98	4179.65	1920.97

4186.54	1920.97	4190.85	1920.98	4194.57	1920.98	4206.25	1921	4211.26	1921
4224.95	1921.01	4234.31	1921	4239.06	1921	4243.59	1920.83	4243.62	1920.82
4246.23	1920.74	4251.05	1920.64	4261.9	1920.42	4263.81	1920.37	4272.15	1920.17
4280.38	1920	4317.96	1920	4318.87	1920.05	4332.17	1920.73	4337.86	1921
4343.83	1921.4	4344.27	1921.4	4345.93	1921.36	4352.01	1921.6	4352.55	1921.59
4362.99	1921.59	4366.16	1921.67	4390.42	1921.99	4393.73	1921.99	4407.61	1921.69
4425.51	1921.32	4426.02	1921.32	4428.5	1921.37	4429.92	1921.38	4434.55	1921.4
4435.43	1921.4	4441.3	1921.35	4442.99	1921.33	4444.93	1921.28	4445.23	1921.28
4454.03	1921	4458.69	1920.86	4458.93	1920.86	4467.4	1920.58	4473.34	1920.39
4482.95	1920.01	4483.66	1920	4498.19	1919.5	4512.35	1919	4564.62	1919
4570	1919.13	4574.97	1919.23	4578.3	1919.3	4585.29	1919.51	4599.68	1919.99
4600.99	1920	4614.02	1921	4618.93	1921.42	4622.75	1921.63	4624.93	1921.76
4628.33	1922	4640.36	1922.96	4641.01	1923.01	4648.58	1923.31	4652.66	1923.39
4655.93	1923.44	4666.41	1923.24	4669.6	1923.21	4672.94	1923.13	4676.8	1923
4685.31	1923	4694.09	1922.99	4720.96	1922.99	4729.21	1923	4734.55	1923.73
4736	1923.91	4738.73	1924.23	4741.45	1924.52	4744.78	1924.88	4745.99	1925
4758.19	1925	4759.98	1924.76	4762.3	1924.48	4763.11	1924.4	4764.49	1924.23
4765.67	1924.11	4766.51	1924	4770.93	1923.51	4774.76	1923.11	4779.48	1922.68
4786.73	1922	4793.78	1921.61	4795.84	1921.46	4798.92	1921.27	4802.02	1921.05
4802.84	1921	4807.63	1921	4810.41	1921.27	4812.52	1921.42	4813.95	1921.55
4819.14	1922	4829.31	1923	4842.5	1923	4844.14	1922.79	4844.35	1922.78
4848.21	1922.52	4854.68	1922	4860.78	1921.04	4861.18	1920.96	4866.15	1920
4869.56	1920	4873.06	1919.86	4878.56	1919.63	4878.67	1919.63	4884.7	1919.46
4885.15	1919.47	4886.17	1919.44	4902.91	1919.33	4913.05	1919.27	4916.69	1919.29
4927.49	1919.37	4936.13	1919.43	4942.33	1919.46	4943.32	1919.46	4967.89	1919.5
4989.35	1919.53	4991.25	1919.52	4994.83	1919.51	5002.78	1919.47	5014.08	1919.36
5031.3	1919.19	5031.39	1919.19	5046.38	1919	5164.06	1919	5173.83	1920
5175.71	1920.26	5181.4	1921	5183.9	1921.42	5187.41	1922	5190.73	1922.61
5194.16	1923.25	5198.02	1924	5201.51	1924.67	5203.11	1925	5204.2	1926.21
5205.3	1927.38	5205.98	1928	5206.75	1928.58	5207.02	1928.65	5208.7	1929
5209.96	1929.27	5212.04	1930	5216.18	1931	5218.17	1931.71	5219.48	1932.19
5221.46	1933	5223.53	1934	5225.32	1935	5225.67	1935.18	5227.14	1936
5227.67	1936.26	5228.97	1937	5229.71	1937.38	5230.83	1938	5231.16	1938.92
5231.21	1939	5246.33	1939	5249.13	1938.99	5257.26	1938.58	5265.37	1938.25
5266.88	1938.15	5268.94	1938	5271.61	1937.98	5272.1	1937.99	5278.67	1937.97
5284.5	1937.98	5285.32	1937.97	5290.99	1937.95	5293.45	1937.96	5315.25	1937.62
5316.84	1937.6	5318.28	1937.59	5319.38	1937.57	5321.15	1937.51	5323.44	1937.44
5324.49	1937.42	5336.86	1937	5399.47	1937	5406.21	1936.85	5437.68	1936
5461.96	1935.58	5470.95	1935.45	5477.3	1935.36	5496.79	1935	5504.55	1934.99

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	5504.55	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	5504.55	286.4	286.4	286.4	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1923.27	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.12	Wt. n-Val.		0.040	
W.S. Elev (ft)	1923.16	Reach Len. (ft)	286.40	286.40	286.40
Crit W.S. (ft)		Flow Area (sq ft)		8214.63	
E.G. Slope (ft/ft)	0.001900	Area (sq ft)		8214.63	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3756.41	Top Width (ft)		3756.41	
Vel Total (ft/s)	2.73	Avg. Vel. (ft/s)		2.73	
Max Chl Dpth (ft)	5.29	Hydr. Depth (ft)		2.19	
Conv. Total (cfs)	513931.3	Conv. (cfs)		513931.3	
Length Wtd. (ft)	286.40	Wetted Per. (ft)		3758.50	
Min Ch El (ft)	1917.87	Shear (lb/sq ft)		0.26	
Alpha	1.00	Stream Power (lb/ft s)	5504.55	0.00	0.00
Frctn Loss (ft)	0.57	Cum Volume (acre-ft)		1316.78	
C & E Loss (ft)	0.00	Cum SA (acres)		609.80	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -12299.9

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1929.15	48.38	1928.94	108.14	1928.58	163.34	1928.25	709.25	1925.88
844.97	1925.27	889.32	1925.07	892.51	1925.06	897.71	1925.03	907.72	1924.99
913.35	1924.96	953.43	1924.78	963.39	1924.74	968.35	1924.71	970.16	1924.71
973.56	1924.69	975.01	1924.69	977.58	1924.67	987.12	1924.63	995.32	1924.59
1003.33	1924.56	1006.25	1924.54	1061.75	1924.3	1087.33	1924.18	1097.33	1924.14
1108.66	1924.09	1142.73	1923.93	1155.09	1923.88	1155.83	1923.87	1171.1	1923.81
1173	1923.69	1174.94	1923.6	1177.54	1923.45	1180.47	1923.42	1183.21	1923.34
1185.55	1923.32	1186.5	1923.28	1189.31	1923.26	1190.94	1923.21	1199.28	1923.15
1204.12	1923.12	1206.86	1923.06	1208.69	1922.85	1214.22	1922.83	1216.14	1922.8
1217.67	1922.81	1223.58	1922.74	1231.14	1922.76	1233.12	1922.73	1237	1922.73

1241.96	1922.66	1247.22	1922.62	1254.9	1922.5	1257.44	1922.47	1265.14	1922.35
1267.39	1922.31	1283.44	1922	1285.03	1921.99	1288.45	1921.99	1290.6	1922
1300.56	1922	1305.03	1921.85	1310.56	1921.93	1318.49	1921.88	1338.48	1921.75
1353.81	1921.67	1447.99	1921.68	1545.52	1921.7	1551.35	1921.71	1578.04	1921.61
1637.38	1921.36	1638	1921.34	1641.92	1921.28	1645.05	1921.24	1646.24	1921.24
1656.23	1921.11	1664.22	1921	1847.66	1921	1856.66	1920.87	1859.72	1920.82
1871.04	1920.68	1919.75	1920.01	1920.71	1920	1926.67	1920	1939.78	1919.8
1994.52	1919	1994.72	1919	2015.67	1918.39	2018.69	1918.3	2029.23	1918
2040.33	1917.65	2042.78	1917.59	2044.66	1917.52	2045.3	1917.52	2048.64	1917.37
2049.71	1917.36	2053.61	1917.23	2070.55	1917.21	2073.41	1917.22	2077.23	1917.34
2090.47	1917.77	2092.62	1917.8	2092.96	1917.82	2095.21	1917.86	2096.95	1917.92
2098.57	1918	2104.93	1918.01	2106.4	1918.11	2112.36	1918.46	2123.01	1919
2258.42	1919	2295.5	1919.27	2336.55	1919.56	2337.17	1919.56	2348.99	1919.65
2351.04	1919.67	2355.59	1919.69	2375.64	1919.87	2390.57	1920	2401.41	1920
2497.85	1920.31	2552.61	1920.48	2554.31	1920.47	2557.18	1920.47	2572.06	1920.44
2589.34	1920.39	2597.58	1920.35	2607.51	1920.37	2614.23	1920.33	2622.05	1920.27
2623.53	1920.27	2634.5	1920.32	2638.3	1920.36	2641.57	1920.38	2645.95	1920.35
2650.85	1920.31	2663.36	1920	2669.1	1919.99	2674.28	1919.99	2684.27	1919.78
2703.15	1919.39	2707.02	1919.35	2712.14	1919.17	2716.57	1919	2768.85	1919
2774.01	1919.23	2782.07	1919.6	2786.66	1919.79	2790.25	1919.95	2791.68	1920
2794.19	1920.01	2811.96	1920.01	2813.21	1920.02	2820.2	1920.02	2839.97	1920.03
2847.77	1920.03	2849.89	1920.04	2854.96	1920.04	2859.63	1920.05	2865.79	1920.05
2901.49	1920.45	2907.74	1920.48	2918.21	1920.54	2919.82	1920.54	2961.02	1920.99
3012.17	1920.99	3048.14	1920.58	3072.53	1920.31	3083.25	1920.29	3086.55	1920.28
3090.04	1920.28	3104.32	1920.26	3121.75	1920.23	3140.22	1920.21	3142.45	1920.22
3152.35	1920.2	3200.34	1920.07	3208.11	1920.03	3214.95	1920	3215.82	1919.99
3220.53	1919.8	3232.23	1919.51	3233.52	1919.44	3236.39	1919.37	3237.58	1919.39
3238.05	1919.37	3239.01	1919.42	3241.1	1919.41	3243.83	1919.47	3249.09	1919.43
3252.53	1919.52	3254.02	1919.51	3260.96	1919.72	3269.77	1920	3275.55	1920
3278.61	1920.14	3281.07	1920.24	3294.64	1920.78	3299.62	1921	3306.02	1921
3312.38	1921.25	3314.28	1921.35	3315.82	1921.38	3318.05	1921.48	3319.5	1921.52
3331.5	1921.99	3334.74	1922	3351.61	1922	3388.64	1922.44	3389.86	1922.46
3398.09	1922.36	3410.14	1922.2	3412.07	1922.33	3414.41	1922.41	3421.76	1922.57
3424.18	1922.59	3426.27	1922.63	3428.43	1922.6	3431.24	1922.5	3435.31	1922.4
3442.6	1922.06	3444.4	1922	3465.93	1922	3467.3	1921.99	3481.89	1921.99
3491.96	1921.98	3503.84	1921.99	3510.87	1921.99	3519.59	1921.98	3526.5	1921.99
3554.43	1921.99	3555.2	1922	3568.59	1922	3575.79	1922.02	3592.55	1922.09
3596.84	1922.14	3600.15	1922.25	3608.06	1922.4	3608.55	1922.39	3610.61	1922.43
3611.09	1922.42	3630.86	1922.62	3665.76	1923	3676.96	1923	3679.87	1923.13
3683.21	1923.29	3684.05	1923.32	3694	1923.81	3697.21	1923.88	3698.39	1923.92
3699.1	1923.92	3708.82	1924	3727.36	1924	3728.71	1923.92	3730.76	1923.77
3734.84	1923.57	3736.92	1923.43	3738.18	1923.37	3744	1923	3812.82	1923
3817.47	1923.27	3819.49	1923.38	3820.7	1923.46	3824.43	1923.64	3827.97	1923.86
3829.56	1923.92	3832.63	1924	3835.65	1924.02	3837.4	1924.01	3838.46	1924.04
3840.7	1924.07	3844.16	1924	3845.79	1924.01	3853.56	1924.02	3859.23	1924.01
3867.77	1924.01	3871.54	1923.99	3872.69	1923.91	3876.99	1923.67	3881.96	1923.35
3892.54	1922.58	3895.07	1922.38	3899.72	1922	3902.07	1921.78	3911.22	1921
3930.35	1920.5	3945.46	1920	3957.25	1919.96	3971.7	1919.93	3982.75	1919.96
3995.32	1920	4006.92	1920.61	4014.19	1921	4137.81	1921	4155.38	1920.81
4181.71	1920.77	4205.81	1920.74	4209.48	1920.68	4211.69	1920.66	4218.13	1920.56
4218.8	1920.56	4229.44	1920.44	4233.59	1920.4	4236.46	1920.34	4240.47	1920.27
4240.98	1920.28	4245.69	1920.23	4249.98	1920.21	4250.97	1920.22	4257.33	1920.2
4261.35	1920.2	4286.67	1920.27	4308.42	1920.31	4326.27	1920.24	4350.63	1920.15
4373.77	1920.59	4373.94	1920.58	4377.25	1920.75	4377.77	1920.75	4379.55	1920.83
4380.47	1920.84	4383.38	1921	4385.54	1922	4388.49	1923	4393.71	1924.64
4395.01	1925	4398.49	1926	4398.9	1926	4403.94	1925	4405.48	1924.7
4407.05	1924.29	4409.06	1923.69	4411.7	1923	4414.53	1922.42	4416.74	1922
4422.25	1921	4484.38	1921	4504.45	1921.01	4522.58	1921	4525.29	1920.9
4529.95	1920.74	4540.26	1920.58	4542.79	1920.46	4546.88	1920.38	4550.32	1920.32
4557.75	1920	4572.25	1920	4572.38	1919.99	4579.6	1919.8	4590.83	1919.51
4593.61	1919.49	4595.65	1919.46	4604.83	1919.4	4610.72	1919.32	4620.92	1919.27
4624.88	1919.22	4625.63	1919.22	4629.73	1919.33	4643.33	1919.73	4643.5	1919.73
4663.97	1921	4665.4	1921.16	4672.36	1922	4674.47	1922.24	4676.93	1922.54
4680.99	1923	4682.71	1923.01	4686.67	1923.14	4692.06	1923.29	4706.64	1923.66
4713	1923.85	4718.35	1924	4718.67	1924.2	4720.92	1925	4722.05	1925.75
4722.5	1926	4723.45	1926.66	4724.04	1927	4724.88	1927.33	4725.47	1927.46
4726.13	1927.51	4728	1927.47	4730.8	1927.27	4733.56	1927	4737.18	1926.66
4742.37	1926.07	4742.71	1926.02	4743.58	1926.05	4744.46	1926	4746.67	1925.05
4747.85	1924.5	4751.29	1923	4754.17	1923	4764.32	1922.73	4773.46	1922.5
4774.09	1922.48	4781.45	1922.09	4787.67	1922.05	4791.69	1922.02	4794.63	1922.01
4795.86	1921.99	4800.05	1921.78	4803.06	1921.62	4812.87	1921.04	4815.9	1921
4826.99	1921	4834.64	1921.98	4838.21	1923	4839.21	1923.31	4840.94	1924
4844.42	1925	4848.17	1926	4851.5	1926.93	4851.88	1927	4852.54	1927
4852.89	1926.82	4853.54	1926	4854.58	1924.76	4855.56	1924	4857.82	1923
4859.1	1922.52	4860.61	1922	4861.31	1921.72	4863.4	1921	4864.33	1920.76
4868.13	1920	4877.7	1919.18	4878.93	1919	4963.69	1919	4995.31	1918.61
4995.81	1918.6	5003.04	1918.58	5009.86	1918.57	5013.96	1918.58	5018.32	1918.48
5024.63	1918.32	5025.08	1918.32	5034.17	1918	5106.3	1918	5112.02	1918.06
5159.29	1918.61	5186.13	1918.91	5189.67	1918.94	5195	1919	5196.69	1919
5207.45	1919.57	5210.91	1920	5214.24	1920.69	5220.48	1921.87	5221.78	1922.13
5226.91	1923	5231.14	1923.93	5231.53	1924	5234.63	1926	5236.26	1926.89
5238.42	1928	5242.9	1930.36	5244.09	1931	5245.26	1931.6	5245.92	1932
5247.31	1932.64	5247.97	1933	5250.28	1934.2	5251.75	1935	5253.7	1936.02
5255.37	1937	5256.29	1937.51	5257.1	1938	5259.33	1938.56	5259.98	1939
5276.08	1939	5329.8	1938	5330.02	1938	5335.25	1937.85	5339.09	1937.78
5355.01	1937.37	5375.47	1937.07	5377.06	1937.04	5385.77	1936.94	5389.66	1936.92
5390.9	1936.89	5394.09	1936.79	5398.9	1936.7	5399.31	1936.68	5403.56	1936.57
5421.19	1936	5425.4	1935.87	5446.75	1935	5450.93	1934.99	5463.03	1934.81

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	5463.03	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	5463.03	243.05	243.05	243.05	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1922.70	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.13	Wt. n-Val.		0.040	
W.S. Elev (ft)	1922.58	Reach Len. (ft)	243.05	243.05	243.05
Crit W.S. (ft)		Flow Area (sq ft)		7835.33	
E.G. Slope (ft/ft)	0.002070	Area (sq ft)		7835.33	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3559.47	Top Width (ft)		3559.47	
Vel Total (ft/s)	2.86	Avg. Vel. (ft/s)		2.86	
Max Chl Dpth (ft)	5.37	Hydr. Depth (ft)		2.20	
Conv. Total (cfs)	492362.8	Conv. (cfs)		492362.8	
Length Wtd. (ft)	243.05	Wetted Per. (ft)		3561.37	
Min Ch El (ft)	1917.21	Shear (lb/sq ft)		0.28	
Alpha	1.00	Stream Power (lb/ft s)	5463.03	0.00	0.00
Frctn Loss (ft)	0.65	Cum Volume (acre-ft)		1264.02	
C & E Loss (ft)	0.01	Cum SA (acres)		585.75	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -12543.0

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1928.88	18.59	1928.78	73.19	1928.47	124.13	1928.19	194.24	1927.88
247.25	1927.56	296.17	1927.27	892.4	1924.66	1041.04	1923.99	1089.64	1923.77
1093.13	1923.76	1098.83	1923.73	1104.74	1923.71	1105.77	1923.7	1109.81	1923.68
1115.97	1923.66	1152.52	1923.49	1159.93	1923.46	1170.85	1923.41	1176.29	1923.38
1178.27	1923.38	1183.59	1923.35	1188.42	1923.33	1193.61	1922.78	1197.67	1922
1199.86	1922.11	1200.08	1922.09	1204.1	1921.97	1226.23	1921.83	1231.39	1921.77
1241.69	1921.69	1251.07	1921.57	1259.89	1921.44	1276.46	1921.19	1282.48	1921.12
1289.3	1921	1327.52	1921	1337.26	1921.01	1351.39	1921.02	1353.83	1921.02
1355.69	1921.03	1376.15	1921.3	1378.72	1921.28	1385.22	1921.24	1390.19	1921.22
1420.64	1921.22	1451.99	1921.23	1466.99	1921.25	1527.12	1921.02	1540.9	1921.02
1572.69	1921.01	1610.6	1921.01	1659.9	1921	1664.61	1921	1671.34	1920.95
1749.59	1920.71	1795.88	1920.56	1798.22	1920.56	1805.04	1920.57	1808.98	1920.57
1844.37	1920.44	1926.18	1920.01	1926.75	1920	1970.87	1919.28	1990.11	1919
1994.15	1919	2001.3	1918.79	2017.77	1918	2029.22	1917.54	2050.6	1917.06
2053.09	1917.01	2056.99	1917.01	2064.65	1917	2081.51	1917	2085	1916.99
2087.05	1916.99	2094.08	1917	2100.22	1917.34	2110.1	1917.87	2112.56	1918
2115.12	1918.03	2123.54	1918.37	2126.37	1918.49	2128.06	1918.53	2132.94	1918.83
2133.61	1918.83	2134.69	1918.87	2135.8	1918.88	2141.58	1919	2297.15	1919
2325.37	1919.73	2330.91	1919.87	2336.55	1920	2536.32	1920	2536.99	1919.98
2545.79	1919.75	2551.59	1919.65	2560.29	1919.42	2560.95	1919.4	2565.39	1919.3
2569.38	1919.2	2571.41	1919.16	2585.74	1919.06	2586.69	1919.05	2593.14	1919.02
2595.61	1919	2609.82	1918.84	2612	1918.83	2614.41	1918.8	2618.16	1918.74
2627.26	1918.62	2633.99	1918.46	2637.15	1918.4	2643.62	1918.23	2646.04	1918.19
2648.01	1918.17	2653.58	1918.17	2657.15	1918.21	2662.14	1918.25	2699.51	1918.93
2710.13	1918.95	2716.67	1918.96	2725.11	1918.96	2727.65	1918.97	2734.57	1918.97
2743.26	1919	2754.58	1919.14	2768.69	1919.31	2782.75	1919.43	2814.62	1919.71
2815.14	1919.71	2819.71	1919.75	2824.93	1919.8	2828.81	1919.83	2843.56	1919.96
2847.49	1919.97	2848.65	1919.98	2864.17	1919.98	2866.07	1919.97	2893.29	1919.95
2900.73	1920	2980.23	1920	2982.77	1919.99	3041.08	1919.99	3093.29	1919.54
3101.85	1919.52	3111.17	1919.43	3117.76	1919.37	3118.73	1919.37	3128.66	1919.28
3141.96	1919.15	3146.93	1919.12	3149.84	1919.09	3155	1919.05	3157.34	1919.04
3162.78	1919	3178.92	1919	3183.34	1919.16	3185.48	1919.23	3190.36	1919.43
3203.42	1920	3211.9	1920.48	3220.33	1920.56	3229.08	1920.47	3229.54	1920.46
3232.88	1920.23	3236.56	1920	3237.74	1919.98	3241.34	1919.8	3248.69	1919.45
3255.02	1919.24	3262.27	1919.03	3266.13	1919.04	3271.1	1919	3279.21	1919
3280.65	1919.33	3285.8	1920.53	3287.76	1921	3290.12	1921.99	3291.99	1922
3293.95	1922.47	3299.06	1923.71	3300.23	1924	3303.69	1924.82	3304.36	1924.8
3308.34	1924	3313.17	1923	3314.56	1922.68	3317.87	1922	3319.73	1921.58
3322.58	1921	3334.14	1921	3343.38	1921.57	3346.98	1921.67	3347.85	1921.7
3358.49	1921.72	3368.91	1921.72	3371.68	1921.68	3385.22	1921.55	3394.33	1921.46
3407.88	1921.32	3408.21	1921.31	3429.75	1921.08	3433.9	1921.04	3435.73	1921.06
3439.81	1921.09	3447.86	1921.33	3449.19	1921.38	3451.39	1921.43	3470.84	1922
3481.7	1922	3486.07	1921.98	3491.7	1921.97	3494.23	1921.96	3501.83	1921.97
3515.85	1921.86	3518.37	1921.83	3525.8	1921.8	3529.12	1921.78	3538.74	1921.7
3540.37	1921.69	3547.65	1921.67	3552.56	1921.64	3580.26	1921.83	3591.19	1921.94
3605.33	1921.97	3610.19	1921.99	3612.42	1921.99	3616.05	1922	3621.91	1922.26
3639.51	1923	3653.27	1923.03	3656.11	1923.03	3657.91	1923.04	3663.23	1923.05
3667.69	1923.05	3672.13	1923.04	3678.45	1923.03	3680.06	1923.02	3684.36	1923.02
3685.64	1923.01	3690.41	1923.01	3691.99	1923	3693.74	1923.01	3696.13	1923

3698.93	1923	3700.27	1923.01	3702.93	1923.01	3704.5	1923.02	3705.82	1923.04
3708.85	1923.06	3717.28	1923.14	3722.97	1923.2	3729.25	1923.14	3740.88	1923.05
3744.16	1923.03	3751.37	1923	3763.69	1922.84	3768.25	1922.77	3770.05	1922.73
3774.56	1922.65	3777.13	1922.58	3777.71	1922.58	3784.97	1922.38	3796.78	1922.01
3798.26	1922	3804.73	1922	3811.07	1921.99	3817.05	1921.99	3823.3	1922
3838.56	1922	3841.63	1922.29	3849.22	1923	3850.82	1923.17	3857.72	1923.8
3860.04	1924	3863.42	1924.02	3873.75	1924.05	3877.36	1924.12	3892.46	1924.36
3899.23	1924.15	3912.38	1923.73	3919.58	1923.48	3922.48	1923.36	3927.14	1923.16
3930.48	1923	3940.17	1922.47	3948.63	1922	3950.57	1921.83	3960.37	1921
3969.59	1920.46	3974.84	1920.01	3976.58	1920	3986.75	1919.97	3995.59	1919.94
4000.33	1919.93	4007.13	1919.95	4022.58	1920	4028.05	1920.24	4046.77	1921
4084.68	1921	4085.78	1921.41	4086.78	1922	4087.91	1922.42	4088.8	1922.63
4090.02	1922.78	4090.95	1922.83	4092.48	1922.87	4094.52	1922.85	4095.48	1922.81
4095.92	1922.77	4097.66	1922.56	4103.5	1922	4107.17	1921.62	4108.81	1921.35
4109.97	1921.11	4110.39	1921	4149.78	1921	4168.85	1920.55	4173.63	1920.48
4178.4	1920.36	4181.22	1920.3	4190.21	1920.29	4198.54	1920.29	4200.67	1920.32
4202.23	1920.33	4204.5	1920.36	4212.51	1920.49	4213.91	1920.52	4228.14	1920.88
4230.07	1920.92	4232.9	1921	4289.73	1921	4293.38	1920.99	4296.94	1921
4403.43	1921	4405.29	1921.09	4413.37	1921.47	4416.68	1921.63	4417	1921.64
4426.23	1922	4433.7	1922.38	4435.19	1922.47	4443.64	1923	4464.49	1923
4466.99	1922.75	4469.58	1922.42	4470.39	1922.29	4472.98	1922	4478.35	1921.43
4482.23	1921	4486.48	1920.55	4490.94	1920	4501.69	1919.77	4511.01	1919.54
4514.57	1919.46	4519.98	1919.32	4532.95	1919	4555.79	1919	4568.23	1919.92
4570.03	1920.05	4583.56	1921	4664.87	1921	4670	1920.89	4671.45	1920.9
4674.33	1920.85	4679.07	1920.99	4694.25	1920.98	4712.54	1921	4755.15	1921
4761.3	1922	4766.25	1922.8	4767.83	1923.05	4770.83	1923.49	4775.15	1924.03
4783.29	1925	4784.66	1925.17	4786.93	1925.29	4792.1	1925.7	4801.18	1926
4803.92	1926.08	4805.49	1926.14	4807.45	1926.16	4808.5	1926.15	4813.77	1926.02
4820.39	1925.71	4821.5	1925.63	4823.41	1925.4	4825.94	1925	4828.04	1924.6
4830.97	1924	4832.4	1923.73	4835.64	1923	4838.93	1922.38	4840.98	1922
4843.29	1921.56	4846.34	1921	4856.27	1920.31	4862.14	1920	4874.75	1919.62
4890.5	1919.18	4896.23	1919.01	4897.08	1919	4942.73	1918.14	4949.38	1918
4952.34	1917.98	4957.02	1917.91	4976.4	1917.61	4987.83	1917.45	4988.09	1917.45
4995.04	1917.37	4999.91	1917.32	5000.72	1917.32	5005.37	1917.27	5008.81	1917.25
5021.98	1917.31	5045.04	1917.44	5048.12	1917.44	5051.47	1917.5	5055.92	1917.59
5061.07	1917.7	5068.75	1917.88	5070.1	1917.88	5073.79	1918	5077.49	1918.1
5078.17	1918.1	5088.52	1918.33	5091.33	1918.34	5129.89	1918.84	5134.4	1918.86
5139.98	1918.9	5149.33	1919	5287.79	1919	5294.71	1919.75	5297.05	1920.01
5300.23	1920.39	5305.41	1921	5305.47	1921	5308.52	1921.5	5311.26	1922
5315.89	1923	5319.69	1924	5320.68	1924.37	5322.42	1925	5325.48	1926.18
5329.38	1927.64	5329.73	1927.74	5330.84	1928	5332.1	1928.55	5333.56	1929
5334.98	1931.03	5335.59	1932	5337.52	1935	5338.17	1936	5338.54	1936.54
5339.74	1938.37	5340.17	1939	5341.42	1939.6	5341.68	1939.59	5346.24	1939.5
5350.98	1939.61	5354.41	1939.8	5355.19	1939.82	5357.36	1939.99	5358.27	1939.99
5362.65	1939.92	5365.78	1939.88	5371.89	1939.77	5404.43	1939.27	5421.92	1939
5426.92	1938.98	5427.85	1938.98	5434.05	1938.96	5435.57	1938.95	5454.31	1938.88
5461.06	1938.85	5482.33	1938.91	5497.7	1938.79	5506.49	1938.96	5508.97	1939
5512.36	1939.08	5513.22	1939.09	5526.64	1939.33	5528.63	1939.34	5535.36	1939.44
5536.73	1939.45	5544.08	1939.48	5548.7	1939.43	5554.61	1939.33	5556.81	1939.28

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	5556.81	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	5556.81	85.86	85.86	85.86	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1922.05	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.18	Wt. n-Val.		0.040	
W.S. Elev (ft)	1921.87	Reach Len. (ft)	85.86	85.86	85.86
Crit W.S. (ft)		Flow Area (sq ft)		6596.89	
E.G. Slope (ft/ft)	0.003587	Area (sq ft)		6596.89	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3496.90	Top Width (ft)		3496.90	
Vel Total (ft/s)	3.40	Avg. Vel. (ft/s)		3.40	
Max Chl Dpth (ft)	4.88	Hydr. Depth (ft)		1.89	
Conv. Total (cfs)	374024.0	Conv. (cfs)		374024.0	
Length Wtd. (ft)	85.86	Wetted Per. (ft)		3498.66	
Min Ch El (ft)	1916.99	Shear (lb/sq ft)		0.42	
Alpha	1.00	Stream Power (lb/ft s)	5556.81	0.00	0.00
Frctn Loss (ft)	0.27	Cum Volume (acre-ft)		1223.75	
C & E Loss (ft)	0.01	Cum SA (acres)		566.07	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -12628.8

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev

0	1927.5	241.8	1926.53	324.87	1926.08	397.19	1925.69	430.71	1925.51
462.15	1925.34	544.58	1924.99	576.46	1924.8	606.06	1924.63	1182.36	1922.22
1183.52	1922.22	1184.17	1922.21	1186.2	1922.21	1187.66	1922.16	1190.05	1922.09
1191.4	1922.08	1200.64	1921	1202.06	1921	1202.49	1920.99	1238	1920.99
1242.29	1920.98	1254.25	1920.55	1257.95	1920.52	1272.48	1920.27	1273.51	1920.26
1279.24	1920.14	1286.2	1920	1301.06	1920	1312.89	1920.63	1320.75	1921
1323.52	1921.04	1323.84	1921.05	1345.72	1921.36	1355.66	1921.5	1356.06	1921.51
1358.82	1921.55	1385.41	1921.98	1386.4	1922	1502.4	1922	1572.92	1921.22
1592.04	1921	1595.76	1920.9	1635.8	1920	1636.23	1919.99	1648.2	1919.74
1651.67	1919.67	1651.83	1919.67	1685.99	1919.99	1709.45	1919.99	1712.76	1920
1813.37	1920	1814.3	1920.01	1866.69	1920.01	1883.88	1920	1914.54	1920
1924.27	1919.71	1926.19	1919.64	1931.84	1919.46	1936.43	1919.31	1946.48	1919
1949.5	1918.97	1980.85	1918.61	2030.55	1918	2040.81	1917	2050.86	1916.61
2065.75	1916.24	2070.54	1916.1	2071.97	1916.07	2073.45	1916.05	2075.16	1916.02
2076.88	1916.01	2077.28	1916	2087.02	1916	2087.54	1916.01	2090.1	1916.08
2098.39	1916.32	2101.36	1916.46	2109.62	1916.89	2111.46	1917	2114.47	1917.08
2115.28	1917.11	2119.32	1917.22	2131.83	1917.55	2133.16	1917.59	2135.35	1917.64
2136.4	1917.68	2150.74	1918	2153.75	1918	2167.8	1918.16	2172.23	1918.2
2173.44	1918.22	2175.12	1918.23	2176.63	1918.25	2181.55	1918.3	2189.84	1918.39
2217.1	1918.66	2227.88	1918.75	2228.13	1918.75	2242.45	1918.89	2242.59	1918.89
2254.41	1919	2256.74	1919	2258.12	1919.03	2258.58	1919.03	2293.02	1919.12
2322.19	1919.18	2331.55	1919.12	2342.21	1919.06	2342.89	1919.06	2350.22	1919
2355.87	1918.99	2361.07	1918.99	2363.18	1918.98	2364.5	1918.98	2370.16	1919
2403.41	1919	2406.03	1918.93	2409.43	1918.76	2414.96	1918.61	2418.01	1918.54
2418.6	1918.54	2419.7	1918.5	2420.29	1918.47	2420.8	1918.47	2421.69	1918.45
2429.21	1918	2434.91	1917.83	2442.55	1917.6	2446.4	1917.53	2449.57	1917.49
2464.65	1917.98	2479.25	1917.98	2505.98	1918	2518.5	1918	2536.79	1918.41
2546.2	1918.62	2555.97	1918.65	2558.94	1918.65	2561.97	1918.68	2562.75	1918.68
2597.48	1918.97	2600.17	1918.99	2600.34	1919	2628.68	1919	2639.09	1919.01
2725.18	1919.01	2725.85	1919	2727.31	1919	2727.87	1919.01	2755.65	1919.07
2780.15	1919.1	2785.4	1919.1	2794.82	1919.11	2803.22	1919.11	2848.49	1919.07
2850.61	1919.07	2857.67	1919.06	2862.14	1919.05	2865.92	1919.05	2869.93	1919.04
2882.47	1919.03	2885.93	1919.03	2892.84	1919.02	2895.65	1919.02	2909.65	1919
2966.91	1919	2976.31	1918.8	2977.89	1918.8	2988	1918.72	2997.18	1918.93
3000.48	1919	3044.06	1919	3046.25	1920	3047.4	1920.54	3048.32	1920.84
3048.76	1920.97	3049.85	1921.18	3051.18	1921.3	3052.19	1921.35	3055.63	1921.57
3058.33	1921.89	3059.42	1921.99	3060.4	1922.04	3061.31	1922.06	3062.06	1922.03
3062.99	1921.98	3065.86	1921.71	3067.46	1921.52	3071.42	1921	3071.76	1920.96
3073.48	1920.69	3074.26	1920.55	3074.94	1920.44	3076.59	1920.07	3078.46	1919.6
3080.7	1919	3160.78	1919	3161.57	1919.01	3165.2	1919.02	3166.17	1919.02
3168.43	1919.03	3172.36	1919.02	3174.18	1919.02	3178.25	1919.04	3191.49	1919.04
3198.87	1919.01	3200.99	1919	3202.78	1919	3204.69	1919.07	3228.37	1920
3237.13	1920.46	3241.57	1920.58	3251.34	1920.99	3258.02	1921	3263.71	1921.11
3265.92	1921.13	3268.25	1921.14	3271.93	1921.19	3273.84	1921.21	3285.19	1921.21
3285.76	1921.2	3288.64	1921.21	3290.35	1921.19	3291.56	1921.19	3292.49	1921.2
3304.88	1921.08	3312.38	1921.01	3313.64	1921	3327.92	1921	3352.7	1921.03
3358.25	1921.04	3359.66	1921.03	3388.27	1921.06	3393.56	1921	3438.62	1921
3445.56	1921.17	3448.54	1921.22	3449.47	1921.23	3457.3	1921.42	3457.9	1921.42
3469.62	1921.51	3478.68	1921.55	3479.07	1921.56	3481.3	1921.51	3481.69	1921.51
3488.97	1921.29	3494.15	1921.06	3497.74	1921.06	3500.9	1921	3511.77	1921
3533.48	1920.99	3542.02	1920.99	3556.69	1921	3565.35	1921	3575.24	1921.64
3583.22	1921.82	3584.44	1921.87	3592.81	1922	3597.01	1922.01	3601.8	1922.06
3603.23	1922.09	3606.86	1922.13	3608.18	1922.15	3614.46	1922.28	3616.3	1922.32
3618.1	1922.35	3625.65	1922.5	3629.96	1922.59	3637.34	1922.68	3643.87	1922.84
3646.26	1922.91	3648.79	1923	3653.11	1923	3656.78	1923.01	3658.64	1923.01
3674.95	1923.03	3692.23	1923.02	3709.24	1923.02	3711.15	1923.01	3714.98	1923.02
3719.21	1923.01	3745.87	1923.01	3750.79	1923	3774.06	1923	3775.1	1922.95
3792.56	1922	3803.89	1921.41	3808.3	1921.19	3811.92	1921	3861.8	1921
3867.07	1921.3	3881.84	1921.91	3882.71	1921.95	3884.03	1922	3896.28	1922.49
3897.39	1922.53	3900.45	1922.68	3901.29	1922.71	3904.45	1922.86	3906.29	1922.93
3907.93	1923	3963.34	1923	3966.96	1922.81	3983.97	1922	3985.31	1921.91
3987.14	1921.81	3992.74	1921.42	3993.92	1921.33	3998.49	1921	4000.59	1920.99
4022.55	1920.93	4025.79	1920.94	4029.75	1920.94	4046.46	1920.99	4048.17	1920.99
4049.42	1921	4139.28	1921	4148.73	1920.59	4153.05	1920.4	4153.35	1920.39
4159.24	1920	4175.65	1919.53	4184.24	1919.29	4188.65	1919.17	4193.09	1919.08
4194.63	1919.06	4195.56	1919.03	4198.38	1919.01	4204.71	1919	4213.19	1919
4214.31	1919.03	4215	1919.06	4216.23	1919.13	4238.89	1920	4244.13	1920.36
4244.64	1920.39	4245.86	1920.43	4247.3	1920.52	4247.65	1920.55	4262.94	1920.97
4263.35	1920.99	4264.05	1921	4420.16	1921	4459.54	1920.13	4460.65	1920.12
4462.58	1920.12	4463.05	1920.1	4463.92	1920.11	4464.69	1920.09	4467.58	1920
4476.93	1920	4477.17	1919.99	4494.36	1919.61	4495.12	1919.59	4497.14	1919.56
4498.63	1919.52	4506.24	1919.43	4522.94	1919.16	4532.79	1919.21	4532.81	1919.2
4537.08	1919.27	4540.39	1919.31	4540.62	1919.32	4542.25	1919.34	4543.41	1919.36
4545.37	1919.38	4546.6	1919.4	4566.36	1919.86	4568.9	1919.93	4570.03	1919.93
4572.74	1919.95	4576.89	1919.96	4581.59	1919.99	4584.51	1919.99	4586.62	1920.04
4594.77	1920.26	4595.36	1920.27	4620.76	1920.99	4625.55	1920.99	4628.35	1921
4675.8	1921	4683.27	1920.36	4689.01	1920	4690.72	1919.97	4690.96	1919.96
4694.09	1919.96	4698.15	1919.92	4699.62	1919.92	4714.59	1919.59	4716.04	1919.58
4729.34	1919.6	4744.08	1919.64	4746.5	1919.63	4755.55	1919.88	4756.04	1919.88
4760.17	1920	4769.02	1920.64	4770.57	1920.74	4774.34	1921	4776.11	1921.02
4779.95	1921.05	4781.56	1921.06	4782.52	1921.06	4787.94	1921	4789.94	1920.83
4799.28	1920	4815.9	1919.22	4817.15	1919.16	4818.76	1919.1	4821.02	1919
4822.28	1919	4825.19	1918.91	4826.58	1918.88	4827.39	1918.85	4833.44	1918.68
4836.1	1918.58	4837.21	1918.53	4841.68	1918.36	4843.99	1918.28	4845.96	1918.22
4857.76	1918	4863.11	1917.92	4865.49	1917.87	4865.65	1917.86	4881.11	1917.6
4885.58	1917.52	4887.48	1917.48	4900.22	1917.31	4901.24	1917.29	4908.49	1917.18
4918.54	1917.02	4919.48	1917	4968.81	1917	4982.77	1917.61	4985.26	1917.72
4986.59	1917.79	4990.3	1918	5003.76	1918.74	5008.42	1919	5274.47	1919

5276.48	1919.01	5278.19	1919.01	5279.44	1919.15	5282.54	1919.45	5282.61	1919.45
5286.76	1920	5291.1	1920.63	5293.58	1921	5297.16	1921.56	5299.99	1922
5305.14	1923.01	5308.47	1924	5311.57	1924.86	5315.73	1926	5316.74	1926.28
5323.06	1928	5323.89	1928.22	5326.27	1929	5329.3	1930	5331.33	1930.76
5332.04	1931	5334.46	1933	5335.93	1934.22	5338.06	1936	5338.97	1936.75
5339.34	1937.11	5340.29	1938	5341.34	1939	5345.37	1939.55	5345.73	1939.61
5348.37	1940	5355.79	1940.88	5357.28	1941	5362	1941	5378.64	1940.32
5386.71	1940	5413.39	1939.12	5416.75	1939	5418.94	1938.99	5443.5	1938.99
5458.91	1939	5461.35	1939.05	5507.74	1939.29	5536.7	1939.4	5541.31	1939.43
5549.52	1939.27	5550.17	1939.27	5563.04	1939.02	5563.36	1939.02	5565.55	1938.98

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	5565.55	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	5565.55	239.2	239.2	239.2	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1921.77	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.15	Wt. n-Val.		0.040	
W.S. Elev (ft)	1921.62	Reach Len. (ft)	239.20	239.20	239.20
Crit W.S. (ft)		Flow Area (sq ft)		7207.34	
E.G. Slope (ft/ft)	0.002753	Area (sq ft)		7207.34	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3578.21	Top Width (ft)		3578.21	
Vel Total (ft/s)	3.11	Avg. Vel. (ft/s)		3.11	
Max Chl Dpth (ft)	5.62	Hydr. Depth (ft)		2.01	
Conv. Total (cfs)	426889.4	Conv. (cfs)		426889.4	
Length Wtd. (ft)	239.20	Wetted Per. (ft)		3579.86	
Min Ch El (ft)	1916.00	Shear (lb/sq ft)		0.35	
Alpha	1.00	Stream Power (lb/ft s)	5565.55	0.00	0.00
Frctn Loss (ft)	0.58	Cum Volume (acre-ft)		1210.15	
C & E Loss (ft)	0.01	Cum SA (acres)		559.09	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -12868.0

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1924.7	228.25	1923.95	821.38	1921.77	842.32	1921.66	860.81	1921.57
869.47	1921.52	877.65	1921.48	975.23	1921.1	981.84	1921.06	988	1921.03
1116.3	1920.52	1117.26	1920.52	1131	1920.47	1134.31	1920.45	1136.49	1920.45
1143.74	1920.42	1147.4	1920.45	1156.64	1920.54	1201.16	1920.99	1201.62	1921
1211.56	1921	1223.48	1920.05	1224.07	1920	1274.28	1920	1277.84	1920.07
1288.23	1920.18	1296.81	1920.23	1298.27	1920.25	1312.77	1920.27	1316.41	1920.31
1323.61	1920.25	1327.39	1920.29	1336.33	1920.21	1339.39	1920.24	1350.11	1920.1
1350.79	1920.11	1358.08	1920	1367.09	1920	1376.35	1919.99	1445.85	1919.99
1452.45	1919.76	1455.46	1919.73	1459.65	1919.67	1476.79	1919.36	1496.01	1919.01
1498.55	1919	1503.83	1919	1507.15	1918.97	1514.53	1918.89	1520.84	1918.83
1521.38	1918.82	1554.71	1918.5	1564.6	1918.43	1577.69	1918.36	1585.33	1918.34
1605.61	1918.4	1633.6	1918.47	1634.58	1918.47	1640.5	1918.51	1647.11	1918.57
1655.19	1918.63	1657.94	1918.64	1669.09	1918.73	1688.83	1918.9	1690.97	1918.91
1699.51	1919	1948.64	1919	1979.79	1918.05	1981.58	1918	1987.25	1916
1990.71	1915	1992.9	1914.38	1994.17	1914	1995.34	1914.04	2002.78	1914.58
2002.95	1914.58	2005.97	1914.81	2019.67	1914.9	2024.67	1914.96	2031.84	1915
2036.54	1915.21	2041	1915.44	2052.94	1916	2056.78	1916.19	2067.67	1917
2087.63	1918	2089.18	1918.01	2111.03	1918.11	2122.89	1918.13	2142.97	1918.17
2166.32	1918.09	2175.55	1918.07	2180.85	1918.05	2195.91	1918.03	2198.79	1918
2205.33	1917.83	2213.78	1917.67	2226.01	1917.37	2234.76	1917.18	2237.75	1917.13
2243.98	1917.07	2254.07	1917	2262.14	1917	2273.34	1917.13	2281.58	1917.22
2285.68	1917.29	2294.04	1917.46	2294.5	1917.46	2298.83	1917.53	2309.25	1917.72
2319.77	1917.85	2326.61	1917.93	2327.99	1917.95	2330.78	1917.97	2333.6	1918
2410.01	1918	2429.07	1918.11	2451.89	1918.09	2468.62	1918.05	2485.37	1918
2486.22	1917.99	2490.57	1917.99	2504.1	1917.98	2508.52	1917.98	2513.92	1917.97
2523.54	1917.97	2529.44	1917.96	2536.39	1917.96	2543.55	1917.95	2555.78	1917.97
2564.21	1917.99	2570.48	1917.99	2571.63	1918	2577.47	1918	2591.25	1918.13
2593.21	1918.16	2601.65	1918.36	2627	1918.99	2634.66	1918.99	2638.81	1919
2649.48	1918.78	2650.96	1918.77	2661.63	1918.68	2670.2	1918.62	2670.76	1918.62
2677.73	1918.58	2684.29	1918.56	2687.14	1918.52	2695.72	1918.49	2696.7	1918.48
2699.89	1918.47	2700	1918.46	2721.41	1918.29	2731.26	1918.21	2761.68	1918.15
2796.33	1918	2799.92	1918	2803.27	1917.89	2818.35	1917.5	2818.85	1917.49
2827.97	1917.38	2833.87	1917.25	2834.98	1917.24	2848.72	1917.01	2849.48	1917
2892.03	1917	2893.99	1917.02	2898.17	1917.05	2913.21	1917.18	3012.07	1918
3068.26	1918	3068.95	1918.36	3069.79	1919	3071.21	1919.8	3073.43	1921.03
3075.24	1922	3077.06	1923	3077.96	1923.53	3078.87	1924	3080.86	1925.2
3081.22	1925.36	3083.02	1926.31	3083.38	1926.47	3084.93	1927	3088.48	1927
3090.61	1926.57	3092.86	1926.06	3093.48	1925.96	3095.77	1925.68	3096.2	1925.59
3097.15	1925.45	3098.29	1925.24	3099.72	1924.95	3101.59	1924.53	3103.37	1924.11

3107.55	1923	3111.24	1922	3113.86	1921.32	3115.03	1921	3116.93	1920.56
3118.97	1920	3120.89	1919.37	3121.66	1919.49	3122.27	1919.34	3122.61	1919.39
3122.78	1919.34	3141.25	1919.43	3175.15	1919.91	3181.62	1919.98	3188.78	1920
3198.5	1920.71	3202.83	1921	3208.97	1921.49	3215.27	1922	3218.95	1922.18
3222.59	1922.32	3224.92	1922.38	3228.65	1922.49	3231.74	1922.57	3236.05	1922.67
3239.12	1922.73	3242.01	1922.69	3247.59	1922.44	3253.6	1922	3267.99	1921.02
3268.67	1920.98	3283.84	1920	3284.55	1919.99	3309.69	1919.94	3323.63	1919.92
3335.96	1919.9	3367.79	1919.96	3369.14	1919.96	3387.72	1920	3389.32	1920.02
3403.87	1920.23	3415.55	1920.37	3423.69	1920.46	3428.9	1920.51	3450.41	1920.98
3451.49	1921	3477.32	1921	3482.79	1920.92	3499.1	1920.62	3507.55	1920.37
3519.74	1920	3524.34	1920	3526.71	1919.95	3532.2	1919.86	3537.35	1919.76
3540.81	1919.71	3569.1	1919.21	3574.24	1919.13	3577.83	1919.1	3582.49	1919.09
3584.15	1919.07	3586.52	1919.07	3589.68	1919.16	3591.16	1919.15	3592.16	1919.16
3593.42	1919.2	3609.1	1920	3615.94	1920.68	3621.35	1921.21	3622.49	1921.31
3627.67	1921.79	3630.07	1922	3637.79	1922.01	3640.45	1922.01	3647.22	1922.09
3649.06	1922	3658.22	1921.5	3660.43	1921.46	3671.79	1921.13	3674.46	1921.12
3679.38	1921.08	3684.31	1921	3743.54	1921	3744.92	1921.08	3758.74	1922
3768.53	1922	3774.15	1921.73	3778.52	1921.57	3781.38	1921.48	3784	1921.36
3787.72	1921.32	3789.29	1921.28	3792.95	1921	3817.68	1921	3818.43	1921.06
3831.01	1922	3836.77	1922.35	3838.13	1922.36	3839.29	1922.42	3847.81	1922.51
3858.78	1922.7	3863.78	1922.78	3864.22	1922.77	3869.35	1922.8	3870.6	1922.77
3872.49	1922.64	3880.19	1922.07	3880.94	1922	3888.05	1921.21	3890.05	1921
3897.64	1920.45	3905.16	1920	3931.99	1919.94	3935.65	1919.94	3965	1919.98
3970.72	1919.99	3970.89	1920	3977.6	1920.54	3981.56	1921	3988.46	1921.77
3990.73	1922	3994.8	1922.14	4013	1922.27	4013.37	1922.26	4014.8	1922.29
4016.74	1922.35	4018.3	1922.34	4022.48	1922.24	4027.42	1922.02	4028.3	1922
4029.72	1921.92	4033.2	1921.68	4041.89	1921.1	4043.34	1921	4046.61	1921
4053.92	1920.99	4058.68	1921	4066.08	1921	4074.46	1921.34	4083.82	1921.54
4084.24	1921.53	4091.97	1921.47	4102.38	1921.37	4105.46	1921.33	4116.26	1921.05
4120.32	1921	4122.42	1920.91	4128.57	1920.59	4130.48	1920.5	4132.85	1920.41
4133.47	1920.37	4138.23	1920.18	4138.46	1920.18	4144.33	1920	4147.92	1920
4155.32	1919.99	4170.68	1919.99	4171.11	1919.98	4179.56	1919.98	4181.71	1919.97
4210.98	1919.51	4211.37	1919.5	4225.75	1919.33	4229.62	1919.29	4232.49	1919.25
4254.67	1919	4267.8	1919	4277.14	1919.02	4290.22	1919.02	4307.35	1919.04
4308.88	1919.07	4310.32	1919.07	4313.07	1919.11	4315.77	1919.18	4319.53	1919.23
4333.94	1919.67	4338.9	1919.78	4342.59	1919.87	4345.17	1920	4350.41	1920.35
4360.4	1921	4364.39	1921.03	4376.56	1921.4	4384.91	1921.56	4385.98	1921.56
4389.64	1921.8	4392.38	1922	4393.18	1922	4399.06	1922.18	4405.92	1922.5
4420.32	1923	4494.94	1923	4501.97	1922.37	4503.29	1922.24	4505.91	1922
4517.06	1921	4524.48	1920.34	4529.03	1920	4535.28	1919.9	4537.75	1919.93
4541.2	1919.96	4543.4	1920	4546.44	1920.77	4551.25	1922	4553.54	1922.6
4555.12	1923	4557.26	1923.56	4558.05	1923.75	4559.21	1924	4562.85	1924.62
4565.02	1925	4568.66	1925.45	4569.84	1925.56	4573.55	1926	4575.65	1926.04
4577.75	1926	4579.4	1925.37	4580.21	1925	4582.8	1924	4584.66	1923.31
4588.79	1921.69	4590.77	1921	4593.35	1920	4596.05	1919	4598.86	1918.98
4604.54	1918.98	4608.72	1918.69	4609.48	1918.67	4619.74	1918	4622.29	1917.88
4625.9	1917.78	4634.86	1917.48	4635.99	1917.43	4651.31	1917	4701.16	1917
4734.13	1917.3	4758.66	1917.51	4766.37	1917.57	4781.15	1917.7	4808.55	1918
4816.73	1918	4826.56	1918.07	4943.14	1919	5290.89	1919	5292.8	1919.12
5295.35	1919.33	5299.3	1919.64	5303.51	1920	5310.92	1921	5311.42	1921.18
5312.99	1922	5313.46	1922.81	5313.64	1923	5314.05	1923.6	5314.25	1924
5314.63	1924.37	5315.17	1925	5315.81	1926	5315.96	1926.38	5316.5	1927.58
5317.16	1928.97	5317.71	1930	5319.21	1933	5320.73	1936	5321.26	1937
5325.96	1937.01	5332.85	1937.02	5340.46	1937.01	5344.5	1937	5356.82	1937
5363.15	1937.09	5370.51	1937.19	5373.08	1937.21	5374.84	1937.26	5378.27	1937.22
5381.05	1937.21	5385.98	1937.3	5409.49	1937.37	5428.9	1937.42	5431.9	1937.4
5443.49	1937.26	5444.7	1937.24	5448.23	1937.22	5449.99	1937.2	5455.66	1937.16
5456.85	1937.16	5470.47	1937.09	5478.91	1937.06	5479.94	1937.05	5491.53	1937
5502.47	1937	5508.91	1936.9	5523.7	1936.81	5526.54	1936.79	5536.31	1936.66

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	5536.31	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	5536.31	291.82	291.82	291.82	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1921.18	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.12	Wt. n-Val.		0.040	
W.S. Elev (ft)	1921.06	Reach Len. (ft)	291.82	291.82	291.82
Crit W.S. (ft)		Flow Area (sq ft)		7903.91	
E.G. Slope (ft/ft)	0.002150	Area (sq ft)		7903.91	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3741.65	Top Width (ft)		3741.65	
Vel Total (ft/s)	2.83	Avg. Vel. (ft/s)		2.83	
Max Chl Dpth (ft)	7.06	Hydr. Depth (ft)		2.11	
Conv. Total (cfs)	483124.7	Conv. (cfs)		483124.7	
Length Wtd. (ft)	291.82	Wetted Per. (ft)		3744.72	
Min Ch El (ft)	1914.00	Shear (lb/sq ft)		0.28	
Alpha	1.00	Stream Power (lb/ft s)	5536.31	0.00	0.00
Frctn Loss (ft)	0.59	Cum Volume (acre-ft)		1168.66	
C & E Loss (ft)	0.00	Cum SA (acres)		539.00	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -13159.9

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1923.53	512.19	1921.8	987.57	1920.03	1016.07	1920.02	1037.42	1920
1039.67	1920	1058.2	1919.97	1061.16	1919.97	1112.86	1919.85	1125.44	1919.82
1127.87	1919.82	1171.67	1919.77	1187.45	1919.76	1190.87	1919.73	1199.91	1919.8
1207.76	1919.81	1215.66	1919.81	1217.25	1919.79	1219.16	1919.77	1229.38	1919.79
1232.99	1919.79	1233.18	1919.8	1244.24	1919.72	1247.63	1919.72	1252.17	1919.69
1275.54	1919.69	1299.52	1919.71	1301.83	1919.71	1302.54	1919.7	1315.68	1919.8
1322.3	1919.85	1336.78	1919.82	1350.42	1919.8	1353.17	1919.8	1401.18	1919.98
1427.75	1919.98	1512.25	1919.26	1539.29	1919.03	1540.63	1919	1541.11	1919
1548.87	1918.9	1580.43	1918.53	1606.51	1918.26	1613.45	1918.18	1616.24	1918.15
1616.86	1918.14	1631.56	1918	1746.09	1918	1768.52	1918.01	1774.9	1918.01
1795.04	1918	1883.76	1918	1894.55	1918.25	1897.17	1918.26	1902.74	1918.36
1907.07	1918.42	1907.49	1918.43	1909.11	1918.43	1915.37	1918.53	1915.83	1918.52
1918.22	1918.56	1920.73	1918.59	1943.7	1918.52	1982.29	1918.32	1983.01	1918.31
1983.85	1918.31	1998.42	1918.13	1999.78	1918.12	2009.66	1918	2014.94	1916.5
2016.67	1916	2020.11	1915.14	2021.11	1914.88	2024.6	1914	2035.3	1914
2044.7	1914.39	2045.88	1914.41	2064.36	1914.86	2069.41	1914.99	2073.05	1914.99
2074.16	1915	2076.83	1915	2080.57	1915.29	2086.82	1915.77	2088.04	1915.86
2089.77	1916	2090.68	1916.03	2099.64	1916.37	2114.14	1916.79	2115.08	1916.82
2121.47	1917	2191.29	1917	2194.2	1916.96	2194.7	1916.95	2203.98	1916.78
2204.26	1916.77	2207.09	1916.71	2207.94	1916.69	2209.02	1916.68	2209.3	1916.69
2209.85	1916.67	2210.4	1916.68	2211.55	1916.63	2212.26	1916.65	2215.03	1916.52
2246.49	1916.68	2306.49	1917	2537.14	1917	2569.37	1917.01	2576.24	1917.01
2632.44	1917.24	2633.76	1917.22	2634.52	1917.22	2637.1	1917.23	2638.46	1917.22
2643.13	1917.19	2644.9	1917.2	2645.72	1917.2	2656.48	1917.1	2664.72	1917.01
2666.5	1917	2934.21	1917	2935.78	1917.1	2936.02	1917.11	2949.59	1918
2954.04	1918.3	2954.66	1918.29	2959.11	1918.52	2960.63	1918.49	2965.61	1918.61
2968.94	1918.66	2974.4	1918.64	2981.3	1918.56	3002	1918.58	3005.87	1918.66
3010.89	1918.75	3011.11	1918.75	3017.15	1918.96	3019.1	1919	3053.93	1919
3061.81	1919.17	3063.19	1919.21	3069.07	1919.4	3069.72	1919.42	3076.33	1919.64
3076.81	1919.66	3078.1	1919.7	3080.99	1919.8	3082.75	1919.83	3085.68	1919.93
3086.42	1919.96	3087.64	1919.95	3088.84	1919.95	3090.56	1919.94	3093.57	1919.91
3104.2	1919.56	3104.94	1919.54	3112.99	1919.38	3113.77	1919.34	3115.4	1919.27
3118.81	1919.12	3120.95	1919.07	3121.83	1919	3449.21	1919	3453.16	1919.02
3454	1919.03	3459.62	1919.01	3463.74	1919.01	3483.57	1919.03	3515.88	1919.03
3528.44	1919.04	3566.67	1919.02	3589.88	1919	3602.05	1919	3609.05	1918.99
3612.03	1918.99	3629.69	1919	3637.69	1919	3649.43	1919.54	3652.42	1919.67
3654.12	1919.76	3655.28	1919.8	3656.47	1919.85	3656.96	1919.86	3657.4	1919.88
3658.15	1919.9	3659.62	1919.9	3659.73	1919.91	3660.75	1919.95	3661.12	1919.97
3662.41	1919.96	3664.36	1919.99	3665.52	1920	3704.98	1920	3708.15	1920.01
3710.47	1920.01	3711.3	1920	3717.29	1920	3719.15	1920.01	3719.89	1920
3720.98	1920	3734.13	1920.06	3739.47	1920.04	3744.61	1920	3747.68	1920
3748.84	1920.07	3752.21	1920.26	3755.43	1920.45	3757.98	1920.61	3764.32	1921
3780.8	1921.95	3781.78	1922	3787.09	1922.22	3791.23	1922.38	3792.67	1922.44
3793.89	1922.48	3810.37	1923	3812.76	1923.01	3813.65	1923.02	3844.38	1923.78
3849.4	1923.85	3852.98	1924	3863.35	1924.86	3864.71	1925	3888.11	1925
3891.84	1924.62	3897.47	1924	3901.93	1923.51	3906.45	1923	3911.55	1922.44
3915.24	1922	3918.86	1921.58	3926.18	1921	3928.18	1921	3930.69	1920.99
3932.28	1921	3957.55	1921.71	3959.62	1921.76	3961.9	1921.82	3964.3	1921.89
3965.94	1921.93	3968.09	1921.96	3968.58	1921.95	3968.96	1921.96	3970.07	1921.94
3972.38	1921.91	3977.61	1921.86	3978.14	1921.84	3983.11	1921.69	4002.12	1921.03
4003.38	1921.02	4004.85	1921	4016.82	1920.11	4018.25	1920	4019.18	1919.96
4036.51	1919	4082.35	1919	4084.28	1919.11	4084.54	1919.12	4085.19	1919.11
4088.42	1919.17	4109.07	1919.72	4117.47	1920	4120.89	1920	4130.95	1920.01
4136.57	1920.01	4140.61	1920	4151.04	1920	4153.17	1919.92	4155.93	1919.8
4169.8	1919.22	4174.32	1919	4190.03	1919	4192.21	1919.17	4192.75	1919.22
4193.85	1919.31	4197.04	1919.59	4199.37	1919.78	4201.9	1920	4202.17	1920
4223.75	1920.62	4236.72	1921	4237.37	1921	4238.07	1921.01	4240.99	1921.15
4247.01	1921.41	4255.39	1921.6	4256.15	1921.63	4258.37	1921.67	4259.24	1921.7
4259.51	1921.7	4260.15	1921.73	4271.68	1921.85	4273.66	1921.9	4279.82	1921.95
4282.4	1922	4282.96	1922	4283.78	1922.03	4308.04	1922.95	4308.94	1922.98
4310.04	1922.99	4310.73	1922.99	4311.25	1923	4311.83	1922.99	4312.79	1922.92
4314.5	1922.81	4324.09	1922	4326.09	1921.82	4334.5	1921	4336.74	1920.89
4337.52	1920.86	4338.25	1920.84	4346.8	1920.81	4354.71	1920.97	4356.69	1920.99
4357.3	1921.02	4358.07	1921.01	4363.99	1921.09	4365.99	1921.08	4370.8	1921
4419.05	1921	4421.68	1921.2	4425.53	1921.47	4426.46	1921.56	4429.15	1921.86
4429.37	1921.88	4430.41	1922	4430.55	1922	4431	1922.04	4432.09	1922.12
4434.51	1922.24	4436.02	1922.29	4443.59	1922.6	4445.87	1922.62	4446.67	1922.62
4447.4	1922.61	4447.43	1922.62	4448.38	1922.59	4449.52	1922.66	4450.33	1922.7
4454.29	1922.64	4462.58	1922.38	4463.99	1922.33	4470.14	1922	4481.26	1921.2
4484.28	1921	4489.1	1920.66	4490.69	1920.57	4492.19	1920.49	4496.56	1920.2
4501.77	1920	4512.6	1919.56	4522.1	1919	4524.83	1918.86	4540.59	1918
4541.2	1917.92	4548.75	1917	4556.83	1916.04	4557.21	1916	4609.53	1916
4610.94	1916.01	4611.6	1916.02	4612.94	1916.02	4616.93	1916.05	4634.68	1916.19
4639.96	1916.22	4648.21	1916.28	4654.4	1916.36	4655.66	1916.37	4666.85	1916.52
4667.23	1916.52	4692.41	1916.87	4692.56	1916.87	4695.67	1916.92	4699.11	1916.97
4699.35	1916.97	4701.47	1917	4702.46	1917	4704.25	1917.01	4739.01	1917.26
4747.06	1917.33	4755	1917.39	4778.28	1917.58	4781.07	1917.6	4783.05	1917.62
4793.31	1917.7	4797.94	1917.73	4799.46	1917.75	4802.89	1917.77	4804.39	1917.79

4813.75	1917.87	4817.97	1917.9	4823.29	1917.94	4825.77	1917.96	4826.98	1917.96
4834.61	1918	4841.58	1918	4862.55	1918.13	4862.75	1918.13	4869.15	1918.17
4870.99	1918.18	4881.97	1918.28	4916.02	1918.57	4918.65	1918.59	4920.41	1918.61
4922.15	1918.62	4924.58	1918.65	4939.8	1918.77	4947.36	1918.82	4950.08	1918.84
4951.35	1918.86	4953.28	1918.87	4955.26	1918.89	4968.74	1919	5191.78	1919
5196.36	1918.91	5212.33	1918.58	5214.56	1918.53	5221.12	1918.37	5221.68	1918.35
5224.12	1918.28	5233.42	1918	5255.44	1917.54	5262.26	1917.41	5264.14	1917.37
5279.95	1917.02	5281.51	1917.02	5281.57	1917.01	5288.84	1917.01	5290.62	1917
5304.17	1917	5314.23	1917.37	5327.95	1917.64	5335.5	1917.8	5344.52	1918
5344.66	1918	5347.31	1918.17	5356.89	1918.82	5359.03	1919	5369.8	1919.82
5372.09	1920	5372.2	1921.01	5372.51	1922	5372.83	1923	5373.13	1923.96
5373.47	1925	5373.79	1926	5374.13	1927	5374.39	1927.82	5374.71	1928.75
5375.4	1930	5375.59	1930.33	5376.01	1931	5376.34	1931.58	5376.54	1932
5376.94	1932.71	5377.09	1933	5377.66	1934	5378.32	1935.14	5378.56	1936
5378.9	1937	5379.2	1938	5379.49	1939	5396.89	1939	5401.6	1938.99
5403.32	1938.98	5404.77	1938.99	5409.68	1939	5418.79	1939.47	5431.74	1940
5435.92	1940.01	5446.76	1940.01	5455.85	1940.02	5485	1940.02	5496.52	1940.03
5510.81	1940.01	5511.94	1940.01	5518.02	1940.07	5518.93	1940.08	5519.84	1940.08
5526.58	1940.04	5528.35	1940.07	5530.45	1940.05	5531.11	1940.07	5532.03	1940.06
5532.1	1940.07	5533.32	1940.07	5546.07	1940.12	5546.4	1940.13	5552.76	1940.16

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	5552.76	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	5552.76	329.18	329.18	329.18	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1920.60	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.11	Wt. n-Val.		0.040	
W.S. Elev (ft)	1920.49	Reach Len. (ft)	329.18	329.18	329.18
Crit W.S. (ft)		Flow Area (sq ft)		8428.11	
E.G. Slope (ft/ft)	0.001882	Area (sq ft)		8428.11	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3978.06	Top Width (ft)		3978.06	
Vel Total (ft/s)	2.66	Avg. Vel. (ft/s)		2.66	
Max Chl Dpth (ft)	6.49	Hydr. Depth (ft)		2.12	
Conv. Total (cfs)	516320.0	Conv. (cfs)		516320.0	
Length Wtd. (ft)	329.18	Wetted Per. (ft)		3979.69	
Min Ch El (ft)	1914.00	Shear (lb/sq ft)		0.25	
Alpha	1.00	Stream Power (lb/ft s)	5552.76	0.00	0.00
Frctn Loss (ft)	0.72	Cum Volume (acre-ft)		1113.95	
C & E Loss (ft)	0.00	Cum SA (acres)		513.14	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -13489.0

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1922.49	5.13	1922.46	53.19	1922.23	62.6	1922.17	87.35	1922
108.58	1921.86	602.29	1920.09	633.9	1920.09	647.44	1920.08	654.48	1920.08
682.15	1920.07	731.09	1920.04	740.61	1920.04	770.69	1920.02	777.44	1920.01
791.26	1920.01	794.07	1920	799.02	1920	897.37	1919.91	917.48	1919.89
929.16	1919.88	945.77	1919.86	965.23	1919.84	1119.41	1919.7	1123.15	1919.69
1132.46	1919.68	1161	1919.66	1163.55	1919.33	1164.64	1919.01	1175.17	1919
1190.57	1919	1192.28	1918.99	1198.8	1918.99	1200.65	1918.98	1206.24	1918.98
1225.96	1918.96	1229.23	1918.96	1235.63	1918.95	1277.51	1918.94	1311.32	1918.94
1330.5	1918.96	1334.33	1918.96	1342.3	1918.97	1347.32	1918.97	1350.68	1918.98
1364.67	1918.98	1376.44	1919	1390.96	1919	1440.43	1919.01	1493.99	1919.01
1506.6	1919	1558.37	1919	1558.61	1918.99	1566.47	1918.8	1570.06	1918.7
1583.93	1918.32	1594.86	1918	1594.94	1918	1606.73	1917.61	1625.25	1917
1783.95	1917	1796.35	1917.12	1796.74	1917.13	1822.42	1917.34	1823.22	1917.35
1839.29	1917.48	1847.35	1917.54	1868.6	1917.66	1876.88	1917.71	1886.43	1917.78
1907.32	1917.88	1924.82	1917.86	1928.04	1917.9	1928.92	1917.9	1931.8	1917.83
1933.67	1917.83	1936.86	1917.74	1948.17	1917.65	1951.99	1917.69	1956.61	1917.79
1959.09	1917.42	1959.77	1917.41	1961.83	1917	1964.91	1916.4	1965.6	1916.28
1968.31	1915.76	1969.47	1915.47	1970.67	1915	1972.93	1914.68	1974.85	1914
1984.54	1913.99	1996.12	1913.99	1998.28	1914	2003.55	1914	2022.03	1914.8
2031.45	1915.18	2033.53	1915.25	2040.5	1915.51	2043.9	1915.64	2048.4	1915.78
2054.86	1915.99	2055.83	1916	2059.21	1916	2087.55	1916.35	2094.25	1916.43
2139.32	1917	2211.45	1917	2218.34	1916.99	2220.89	1916.99	2229.45	1917
2255.79	1917	2260.14	1916.99	2266.03	1916.92	2267.93	1916.88	2275.15	1916.76
2278.51	1916.69	2283.13	1916.62	2284.59	1916.59	2298.36	1916.36	2321	1916
2333.76	1916	2335.35	1915.99	2348.17	1915.99	2397.52	1915.97	2411.91	1915.98
2413.83	1915.98	2427.34	1915.97	2431.36	1915.97	2443.16	1915.95	2467.42	1915.95
2470.09	1915.96	2475.66	1915.96	2485.42	1915.97	2492.79	1915.97	2505.6	1916
2509.55	1916.12	2522.25	1916.54	2532.85	1917	2548.38	1917	2552.14	1916.92
2557.02	1916.77	2558.24	1916.72	2564.52	1916.55	2572.63	1916.34	2576.82	1916.29

2578.68	1916.23	2580.64	1916.19	2583.17	1916.16	2589.9	1916.14	2592.06	1916.11
2594.58	1916.06	2596.48	1916	2621.14	1916	2628.64	1915.99	2647.97	1915.99
2648.28	1916	2669.67	1916	2673.65	1916.05	2673.94	1916.06	2680.6	1916.15
2688.91	1916.27	2691.42	1916.31	2713.89	1916.61	2716.22	1916.65	2721.3	1916.72
2721.73	1916.73	2727.79	1916.8	2728.09	1916.8	2742.34	1917	2746.62	1917
2752.82	1917.09	2754.36	1917.12	2775.97	1917.38	2777.15	1917.4	2797.57	1918
2811.46	1918.87	2814.93	1919	2818.55	1919.17	2825.71	1919.64	2827.29	1919.73
2831.64	1920	2834.29	1920.12	2834.76	1920.13	2844.23	1920.46	2848.39	1920.45
2850.19	1920.52	2856.95	1920.5	2864	1920.59	2865.92	1920.58	2877.88	1920.54
2893.34	1920.46	2893.78	1920.46	2906.16	1920.2	2914.85	1920.01	2916.39	1920
2935.12	1919.34	2939.57	1919.17	2944.44	1919	2953.94	1918.99	2966.93	1918.98
2978.96	1918.9	2989.17	1918.83	3022.89	1918.8	3029.16	1918.77	3038.17	1918.71
3042.17	1918.57	3046.1	1918.46	3048.91	1918.39	3055.42	1918.21	3067.45	1918
3178.95	1918	3182.38	1918.01	3185.99	1918.01	3196.41	1918.03	3203.92	1918.02
3216.43	1918.01	3219.12	1918	3271.83	1918	3277.26	1918.19	3280.06	1918.28
3280.41	1918.28	3283.67	1918.34	3289.01	1918.47	3298.66	1918.76	3300.79	1918.8
3301.41	1918.8	3302.74	1918.84	3304.56	1918.84	3306.25	1918.9	3307.74	1918.89
3313.09	1919	3332.29	1919	3340.71	1918.99	3346.87	1918.99	3347.08	1919
3420.1	1919	3422.57	1918.96	3434.99	1918.78	3465.03	1918.8	3467.6	1918.8
3467.99	1918.81	3469.89	1918.81	3473.01	1918.82	3489.91	1918.72	3499.71	1918.63
3505.29	1918.59	3508.68	1918.55	3512.75	1918.51	3522.68	1918.46	3531.33	1918.43
3540.83	1918.25	3547.52	1918.11	3553.07	1918	3556.45	1918	3572.34	1917.99
3577.58	1917.98	3583.04	1917.99	3590.5	1917.99	3601.78	1918	3610.73	1918.34
3622.19	1918.84	3623.42	1918.89	3625.58	1919	3628.28	1919	3639.67	1919.01
3653.06	1919	3658	1919	3658.55	1918.99	3661.32	1918.99	3662.16	1919
3665.64	1919	3676.27	1919.59	3683.13	1920	3684.53	1920.01	3698.15	1920.5
3711.57	1921	3718.36	1921	3723.06	1920.84	3727.26	1920.69	3729.26	1920.61
3740.31	1920.11	3742.57	1920	3743.08	1919.95	3748.8	1919.33	3753.79	1919
3761.43	1918.29	3761.99	1918.23	3764.59	1918	3809.69	1918	3818.27	1918.37
3822.24	1918.48	3825.2	1918.55	3833.37	1918.63	3841.12	1918.73	3849.86	1918.92
3851.86	1919	3859.03	1919.01	3862.56	1919.01	3878.86	1919.39	3879.99	1919.4
3883.5	1919.38	3887.47	1919.32	3887.73	1919.33	3889.73	1919.31	3891.51	1919.32
3893.29	1919.35	3894.84	1919.35	3902.04	1919.61	3905.29	1919.73	3913.6	1919.94
3914.21	1919.97	3915.78	1920	3927.28	1920.36	3937.27	1921	3948.91	1921.77
3950.84	1921.85	3953.55	1921.94	3956.35	1922	3965.73	1922.16	3966.11	1922.16
3976.78	1922.34	3980.52	1922.3	3983.68	1922.2	3992.53	1922	3993.51	1921.99
4006.67	1921.78	4008.05	1921.74	4011.71	1921.6	4013.66	1921.54	4019.27	1921.32
4026.2	1921.01	4027.98	1921	4033.17	1920.72	4041.21	1920.3	4042.39	1920.23
4046.7	1920	4053.09	1919.86	4054.27	1919.84	4064.75	1919.63	4085.08	1919.2
4095.85	1919	4136.12	1919	4141.17	1919.38	4149.54	1920	4149.75	1920
4159.36	1920.27	4165.23	1920.42	4172.21	1920.53	4189.74	1920.77	4193.75	1920.84
4201.09	1920.95	4207.46	1920.99	4211.16	1920.99	4212.06	1921	4226.27	1921
4229.15	1920.98	4233.97	1920.92	4234.92	1920.88	4237.56	1920.81	4239.3	1920.74
4240.51	1920.68	4249.14	1920.51	4255.06	1920.51	4256.2	1920.49	4257.16	1920.53
4262.37	1920.47	4263.07	1920.48	4264.73	1920.44	4271.18	1920.34	4272.08	1920.3
4274.43	1920.25	4276.97	1920.18	4278.38	1920.13	4289.62	1919.62	4302.37	1919
4312.78	1918.86	4320.39	1918.75	4335.53	1918.41	4349.75	1918.06	4351.95	1918.06
4354.1	1918.04	4360.42	1918	4383.32	1917.05	4387.18	1916.91	4388.56	1916.87
4415.1	1916	4415.55	1916	4435.64	1915.64	4442.06	1915.53	4445.81	1915.46
4449.46	1915.4	4471	1915.03	4472.61	1915	4485.58	1915	4566.91	1915.92
4572.17	1915.98	4573.52	1916	4575.75	1916.01	4590.38	1916.42	4611.54	1917
4612.7	1917	4637.45	1917.22	4664.37	1917.44	4667.13	1917.46	4691.64	1917.7
4704.53	1917.82	4720.09	1917.99	4721.53	1918	4730.99	1918.01	4737.57	1918.01
4749.13	1918.02	4761.25	1918.02	4763.91	1918.01	4768.42	1918.01	4777.39	1918
4873.58	1918	4886.19	1918.11	4889.94	1918.13	4921.56	1918.38	4939.32	1918.51
4941.41	1918.53	5002.63	1919	5030.97	1919	5034.02	1919.09	5037.54	1919.2
5060.53	1919.15	5087.82	1919.05	5089.9	1919	5093.41	1918.83	5112.83	1918
5117.4	1918	5154.58	1917.51	5173.49	1917.27	5189.56	1917	5195.06	1917
5196.27	1916.99	5200	1917	5209.26	1917	5213.03	1916.98	5216.83	1917
5234.86	1917	5256.99	1916.99	5259.89	1916.99	5283.35	1917	5287.59	1917.38
5289.7	1917.59	5294.3	1918	5299.72	1918.52	5302.82	1918.79	5305.54	1919
5309.62	1919.41	5315.56	1920	5319.6	1921	5321.15	1922	5322.73	1923
5323.12	1923.23	5324.32	1924	5325.96	1925	5327.64	1926	5329.61	1927.2
5329.94	1927.37	5331.62	1928	5332.85	1928.5	5333.67	1929	5335.6	1931
5336.13	1931.52	5337.1	1932.55	5338.12	1933.57	5339.51	1935	5340.5	1935.94
5341.48	1937	5341.84	1937.35	5342.47	1938.08	5342.7	1938.4	5343.05	1939
5343.68	1940	5344.65	1940.12	5345.39	1940.16	5348.81	1940.46	5357.75	1940.64
5359.46	1940.62	5359.79	1940.6	5361.89	1940.61	5363.72	1940.53	5374.68	1940.03
5382.72	1940.03	5408.79	1940.31	5409.42	1940.32	5431.13	1940.5	5436.8	1940.55

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	5436.8	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	5436.8	201.71	201.71	201.71	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1919.87	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.14	Wt. n-Val.		0.040	
W.S. Elev (ft)	1919.74	Reach Len. (ft)	201.71	201.71	201.71
Crit W.S. (ft)		Flow Area (sq ft)		7524.97	
E.G. Slope (ft/ft)	0.002562	Area (sq ft)		7524.97	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3776.08	Top Width (ft)		3776.08	
Vel Total (ft/s)	2.98	Avg. Vel. (ft/s)		2.98	
Max Chl Dpth (ft)	5.75	Hydr. Depth (ft)		1.99	

Conv. Total (cfs)	442578.2	Conv. (cfs)		442578.2	
Length Wtd. (ft)	201.71	Wetted Per. (ft)		3777.28	
Min Ch El (ft)	1913.99	Shear (lb/sq ft)		0.32	
Alpha	1.00	Stream Power (lb/ft s)	5436.80	0.00	0.00
Frctn Loss (ft)	0.53	Cum Volume (acre-ft)		1053.68	
C & E Loss (ft)	0.00	Cum SA (acres)		483.84	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -13690.7

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1920.98	99.46	1920.42	101.27	1920.41	143.49	1920.21	144.38	1920.2
146.73	1920.19	148.73	1920.17	194.36	1920.01	239.29	1920.01	288.17	1920.02
326.46	1920.01	360.62	1920	373.37	1920	424.26	1919.95	471.82	1919.95
492.12	1919.94	498.76	1919.94	860.12	1919.62	865.17	1919.62	873.05	1919.61
878.62	1919.6	882.99	1919.6	893.93	1919.59	899.74	1919.59	900.34	1919.58
910.17	1919.58	925.08	1919.56	945.11	1919.55	945.96	1919.54	953.34	1919.54
960.72	1919.53	1036.25	1919.46	1047.84	1919.45	1049.82	1919.22	1095.21	1918
1118.75	1918	1136.6	1918.2	1211.52	1919	1418.43	1919	1419.55	1918.99
1431.41	1918.83	1438.15	1918.66	1439.98	1918.63	1443	1918.57	1465.48	1918
1490.2	1917.34	1505.48	1917	1554.29	1917	1565.61	1916.99	1575.92	1916.99
1592.46	1917	1822.61	1917	1824.84	1916.59	1829.52	1915.57	1832.55	1915
1835.55	1914.44	1837.88	1914	1842.28	1913.85	1867.88	1913.71	1887.13	1913.64
1895.13	1913.77	1907.32	1914	1907.46	1914	1910.08	1914.08	1912.3	1914.14
1936.92	1914.87	1942.13	1915.02	1955.61	1915.31	1962.8	1915.47	1966.93	1915.56
1988.15	1916	2007.86	1916.01	2014.69	1916.01	2024.28	1916	2039.47	1916
2054.41	1915.21	2058.1	1915.03	2058.62	1915	2118.98	1915	2120.47	1915.01
2126.83	1915.01	2193.46	1915.58	2205.75	1915.66	2207.16	1915.68	2209.1	1915.7
2232.25	1915.99	2238.21	1916.01	2238.71	1916.02	2240.55	1916.02	2241.55	1916.03
2267.43	1916.1	2281.8	1916.18	2327.52	1916.19	2333.19	1916.08	2336.8	1916
2338.3	1916	2341.17	1915.94	2355.69	1915.87	2368.51	1915.83	2371.84	1915.83
2372.93	1915.85	2374.02	1915.85	2375.68	1915.84	2396.31	1915.96	2402.47	1915.99
2446.27	1915.99	2454.89	1916	2458.19	1916	2462.16	1916.11	2462.7	1916.13
2483.5	1917	2547.58	1917	2554.61	1916.99	2566.6	1917	2740.16	1917
2747.6	1917.25	2752.49	1917.43	2755.49	1917.55	2758.21	1917.64	2759.81	1917.7
2767.01	1918	2784.82	1918.06	2788.76	1918.05	2802	1918	2834.12	1917.99
2865.27	1917.99	2875.52	1918	2890.13	1918.01	2912.38	1918.01	2915.36	1918
2925.35	1918	2927.19	1917.99	2933.36	1917.78	2937.87	1917.65	2956.74	1917
2966.73	1917	2976.38	1917.11	2987.1	1917.21	2987.73	1917.22	2991.42	1917.23
2991.79	1917.24	2996.09	1917.25	3001.41	1917.28	3040.47	1918	3101.9	1918
3114.35	1917.71	3127.66	1917.62	3137.17	1917.57	3137.69	1917.56	3138.85	1917.56
3140.6	1917.55	3165.06	1917.55	3190.38	1917.57	3197.06	1917.67	3200.03	1917.73
3200.72	1917.72	3206.78	1917.88	3210.29	1917.99	3211.57	1917.99	3215.71	1918.06
3272.84	1919	3294.53	1919	3295.8	1918.95	3299.19	1918.83	3302.5	1918.7
3320.19	1918	3326.68	1917.7	3331.09	1917.5	3333.36	1917.39	3337	1917.23
3338	1917.18	3342.36	1917	3370.4	1917	3371.81	1917.01	3380.32	1917.15
3383.58	1917.19	3391.72	1917.26	3392.52	1917.26	3394.21	1917.29	3394.75	1917.29
3396.03	1917.31	3458.18	1917.97	3459.14	1917.99	3470.84	1917.99	3476.19	1918
3478	1918	3484.65	1918.36	3494.95	1919	3495.63	1919.01	3510.04	1919.4
3521.6	1919.7	3534.16	1920	3544.09	1920	3545.14	1920.02	3546.51	1920.07
3547.94	1920.14	3549.59	1920.21	3552.91	1920.4	3560.36	1920.79	3564.25	1921
3573.59	1921	3574.51	1920.89	3582.27	1920	3586.18	1919.54	3590.84	1919
3593.42	1918.8	3596.01	1918.59	3597.95	1918.44	3598.76	1918.37	3599.57	1918.32
3601.14	1918.24	3604.24	1918.1	3605.29	1918.02	3606.51	1918	3609.48	1917.99
3611.46	1917.99	3612.59	1917.89	3624.54	1917.71	3626.83	1917.7	3627.87	1917.67
3629.16	1917.62	3635.27	1917.22	3636.24	1917.18	3638.87	1917	3652.29	1917
3654.55	1917.27	3661.08	1918	3664.76	1918.43	3669.8	1919	3671.93	1919.25
3675.82	1919.73	3677.85	1920	3680.93	1920.3	3687.73	1921	3692.36	1921.38
3698.84	1922	3715.91	1922.99	3716.36	1923.02	3727.1	1923.64	3728.69	1923.69
3732.2	1923.87	3732.99	1923.89	3734.09	1923.9	3735.28	1923.89	3736.98	1923.89
3737.87	1923.87	3739.03	1923.86	3741.45	1923.82	3745.49	1923.71	3748.09	1923.65
3749.16	1923.63	3750.81	1923.57	3751.4	1923.56	3758.4	1923.24	3763.13	1923.01
3764.99	1923.01	3769.14	1923	3775.07	1922.72	3776.57	1922.7	3788.73	1922.17
3788.95	1922.15	3792.53	1922	3806.7	1921.35	3807.77	1921.29	3813.33	1921.04
3814.85	1921	3828.73	1920.35	3830.34	1920.25	3834.64	1920	3835.63	1919.99
3837.17	1920	3859.12	1921	3873.02	1921.41	3873.25	1921.42	3876.43	1921.48
3878.14	1921.49	3886.76	1921.98	3889.56	1921.98	3896.3	1921.99	3908.71	1921.99
3909.98	1922	3910.06	1921.99	3915.36	1921.82	3916.55	1921.81	3925.89	1921.89
3926.43	1921.88	3938.59	1921.95	3939.34	1921.94	3940.1	1921.89	3942.1	1921.86
3943.12	1921.8	3943.75	1921.75	3950.21	1921	3956.9	1920.48	3958.83	1920.31
3962.64	1920	3971.31	1919.31	3976.16	1918.93	3979.06	1918.72	3986.83	1918.13
3988.73	1918	4000.64	1918	4005.23	1918.26	4011.09	1918.58	4015.94	1918.87
4018.55	1919	4023.62	1919.24	4026.28	1919.2	4044.12	1919.02	4045.78	1919.02
4055.17	1919.01	4067.75	1919	4093.21	1919	4095.24	1919.15	4099.76	1919.51
4100.64	1919.59	4106.28	1920	4111.61	1920.46	4117.77	1921	4118.59	1921.05
4127.54	1921.86	4128.6	1921.95	4129.44	1922	4130.37	1922.19	4132.03	1922.5
4134.59	1923	4135.11	1923.11	4135.93	1923.34	4137.58	1924	4139.6	1924.82
4140.08	1925	4141.55	1925.59	4142.74	1926	4142.91	1926.01	4143.99	1926.21
4144.93	1926.35	4145.95	1926.33	4147.59	1926.26	4149.18	1926.12	4149.92	1926.01

4150.86	1925.78	4152.33	1925.33	4153.63	1924.83	4155.57	1924	4157.25	1923.39
4158.2	1923	4160.96	1922.02	4163.66	1921	4166.37	1920	4169.11	1919
4169.58	1918.86	4169.98	1918.68	4171.84	1918	4172.47	1917.91	4177.33	1917
4177.48	1916.99	4191.13	1916.29	4192.69	1916.23	4194.53	1916.15	4198.56	1916
4200.08	1915.98	4201.85	1915.89	4204.52	1915.78	4222.15	1915.01	4222.25	1915
4321.79	1915	4324.32	1915.01	4346.45	1915.01	4350.49	1915.02	4357.92	1915.01
4361.1	1915	4418.84	1915	4429.26	1915.3	4437.65	1915.53	4442.94	1915.68
4443.43	1915.69	4454.41	1916	4471.16	1916.32	4477.32	1916.43	4482.4	1916.51
4502.38	1916.86	4505.49	1916.92	4510.27	1917	4524.18	1917.28	4528.86	1917.37
4531.01	1917.4	4536.63	1917.5	4536.86	1917.51	4544.64	1917.66	4557.86	1917.82
4559.06	1917.83	4560.04	1917.85	4562.21	1917.88	4574.44	1918	4623.2	1918
4623.58	1918.01	4629.7	1918.01	4636	1918	4764.9	1918	4791.48	1918.38
4806.79	1918.59	4807.92	1918.59	4833.97	1918.68	4851.72	1918.72	4853.93	1918.72
4854.25	1918.71	4855.75	1918.71	4875.22	1918.73	4895.86	1918.75	4897.02	1918.76
4900.34	1918.75	4901.39	1918.74	4903.56	1918.74	4907.85	1918.72	4910.96	1918.7
4914.71	1918.67	4918.23	1918.62	4922.82	1918.57	4928.58	1918.57	4934.52	1918.58
4935.72	1918.58	4937.13	1918.57	4943.89	1918.43	4944.57	1918.43	4957.85	1918.16
4959.12	1918.14	4965.93	1918.01	4966.99	1918.01	4968.15	1917.98	4968.54	1917.98
4972.67	1917.87	4975.83	1917.82	4986.29	1917.56	4995.69	1917.4	5006.63	1917.19
5010.78	1917.1	5012.26	1917.08	5016.21	1917	5018.43	1917	5024.41	1916.94
5026.01	1916.92	5028.77	1916.9	5030.57	1916.87	5078.88	1916.93	5108.97	1916.99
5134.1	1917	5140.95	1917.52	5147.09	1918	5154.51	1918.88	5155.47	1919
5156.88	1919.19	5162.96	1920	5165.44	1921	5167.04	1921.68	5168.87	1922.53
5170.32	1923.21	5172.1	1924	5172.58	1924.22	5174.74	1925	5175.29	1925.35
5175.99	1926	5177	1927.34	5177.85	1928.42	5179.67	1930.81	5179.8	1931
5180.19	1931.9	5180.31	1932	5180.58	1932.09	5181.49	1932.34	5184.07	1933
5184.77	1933.14	5188.07	1934	5189.19	1934.28	5191.97	1935	5194.06	1935.36
5196.62	1936	5199.12	1936.37	5206.55	1937	5208.13	1937.14	5211.52	1937.41
5216.07	1937.84	5217.65	1938	5221.57	1938.42	5226.15	1938.94	5226.71	1939
5228.63	1939.08	5229.97	1939.13	5253.94	1940	5283.64	1940	5289.55	1940.04

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	5289.55	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	5289.55	192.98	192.98	192.98	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1919.34	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.15	Wt. n-Val.		0.040	
W.S. Elev (ft)	1919.19	Reach Len. (ft)	192.98	192.98	192.98
Crit W.S. (ft)		Flow Area (sq ft)		7263.80	
E.G. Slope (ft/ft)	0.002745	Area (sq ft)		7263.80	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3640.34	Top Width (ft)		3640.34	
Vel Total (ft/s)	3.08	Avg. Vel. (ft/s)		3.08	
Max Chl Dpth (ft)	5.55	Hydr. Depth (ft)		2.00	
Conv. Total (cfs)	427567.5	Conv. (cfs)		427567.5	
Length Wtd. (ft)	192.98	Wetted Per. (ft)		3641.70	
Min Ch El (ft)	1913.64	Shear (lb/sq ft)		0.34	
Alpha	1.00	Stream Power (lb/ft s)	5289.55	0.00	0.00
Frctn Loss (ft)	0.53	Cum Volume (acre-ft)		1019.43	
C & E Loss (ft)	0.00	Cum SA (acres)		466.67	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -13883.7

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1920.69	20.96	1920.57	118.96	1920.01	120.56	1920	124.36	1920
179.83	1919.97	186.22	1919.96	200.18	1919.97	209.72	1919.96	215.71	1919.96
254.6	1919.97	282.43	1919.97	311.43	1919.96	321.37	1919.96	334.32	1919.94
371.77	1919.91	409.46	1919.91	414.54	1919.9	429.63	1919.89	440.61	1919.9
711.56	1919.64	720.93	1919.64	724.96	1919.63	728.12	1919.63	736.02	1919.62
740.64	1919.62	745.5	1919.61	747.72	1919.61	758.43	1919.6	772.17	1919.59
773.38	1919.59	778.63	1919.58	783.92	1919.58	837.4	1919.53	903.06	1919.47
911.11	1919.46	918.45	1919.45	931.59	1919.44	937.45	1919.44	952.82	1919.42
956.32	1919.42	973.28	1919.4	976.23	1919.4	1008.09	1919.37	1008.8	1919.37
1029.42	1919.35	1052.73	1919.33	1054.32	1918.27	1055.08	1918	1117.07	1918
1149.56	1918.55	1181.68	1919	1283.69	1919	1288.82	1918.99	1294.7	1918.99
1296.39	1918.98	1306.37	1918.98	1375.05	1918.58	1377.89	1918.57	1384.66	1918.52
1392.98	1918.47	1393.25	1918.46	1403.8	1918.39	1417.56	1918.3	1431.88	1918.2
1451.27	1918.05	1451.83	1918.05	1456.45	1918.02	1458.72	1918	1459.35	1918
1475.47	1917.57	1497.76	1917	1578.23	1916.98	1580.49	1916.98	1618.86	1916.99
1629.88	1916.99	1666.72	1917	1807.36	1917	1810.6	1916.79	1820.72	1916
1823.77	1915	1824.44	1914.77	1826.8	1914	1894.38	1914	1899.03	1914.01
1906.42	1914.01	1907.82	1914.02	1913.24	1914.01	1917.35	1914.01	1925.99	1914.15
1926.18	1914.16	1934.9	1914.13	1935.6	1914.14	1942.4	1914.12	1948.38	1914

1991.62	1914	1999.72	1914.72	2000.18	1914.75	2001.21	1914.79	2001.97	1914.81
2003.97	1914.85	2005.32	1914.93	2009.66	1914.94	2009.68	1914.95	2010.82	1914.98
2011.21	1915	2275.91	1915	2289.4	1915.01	2317.35	1915.01	2339.02	1915
2380.33	1915	2381.18	1915.04	2382.52	1915.09	2383.17	1915.13	2388.9	1915.38
2400.39	1916	2406.26	1916.32	2406.75	1916.35	2408.04	1916.4	2409.42	1916.47
2422.57	1916.92	2424.53	1917	2425.2	1917.02	2430.51	1917.01	2434.51	1917.02
2441.21	1917.02	2450.14	1917	2460.42	1916.46	2468.31	1916	2469.23	1915.99
2470	1915.99	2474.15	1915.97	2475.38	1915.96	2519.04	1915.13	2525.49	1915.01
2525.95	1915	2577.99	1915	2582.88	1915.37	2591.24	1916	2595.42	1916.25
2595.64	1916.25	2605.79	1916.65	2614.31	1916.99	2620.83	1916.99	2622.51	1917
2668.14	1917	2683.98	1916.92	2686.46	1916.84	2687.12	1916.83	2689.94	1916.73
2690.84	1916.71	2691.78	1916.68	2695.19	1916.58	2699.79	1916.46	2700.25	1916.44
2704.32	1916.32	2717.62	1916	2740.4	1916	2742.4	1916.08	2742.62	1916.08
2744.49	1916.14	2760.5	1916.73	2768.77	1916.89	2769.79	1916.92	2773.08	1916.96
2773.11	1916.97	2777.75	1917	2916.7	1917	2926.55	1917.2	2926.75	1917.21
2927.48	1917.21	2938.21	1917.43	2957.96	1917.55	2970.56	1917.61	2976.04	1917.51
2977.2	1917.51	2981.09	1917.41	2988.27	1917.19	2990.28	1917.13	2990.41	1917.13
2994.59	1917	3228.64	1917	3236.89	1917.22	3250.31	1917.73	3252.92	1917.82
3257.37	1918	3257.61	1918	3296.85	1918.97	3297.7	1919	3346.52	1919
3349.56	1918.8	3363.83	1918	3366.33	1917.83	3375.93	1917.17	3376.81	1917.1
3377.03	1917.09	3378.36	1917	3422.72	1917	3432.61	1917.6	3434.72	1917.71
3439.65	1918	3442.81	1918.19	3449.61	1918.59	3454.54	1918.89	3456.58	1919
3463.79	1919	3475.26	1919.01	3484.15	1919	3492.75	1919	3502.76	1918.38
3508.52	1918	3524.16	1918	3534.18	1918.32	3536.64	1918.35	3538.91	1918.41
3543.85	1918.5	3547.23	1918.53	3555.54	1918.68	3571.04	1918.99	3571.45	1919
3572.13	1919.05	3577.66	1919.44	3580.04	1919.59	3582.4	1919.69	3583.82	1919.8
3584.12	1919.81	3585.63	1919.91	3587.3	1920	3589.23	1920.09	3593.61	1920.28
3595.41	1920.34	3597.52	1920.39	3601.34	1920.44	3608.17	1920.57	3611.98	1920.69
3616.58	1920.73	3618.25	1920.73	3618.93	1920.7	3619.64	1920.7	3620.36	1920.67
3621.01	1920.67	3621.7	1920.63	3623.03	1920.54	3623.97	1920.51	3624.26	1920.49
3628.78	1920	3633.9	1919.27	3635.84	1919	3636.87	1918.85	3642.86	1918.02
3652.85	1917	3689.66	1917	3691.52	1917.09	3691.99	1917.13	3692.94	1917.19
3703.53	1917.98	3715.03	1918.43	3718.27	1918.55	3729.44	1919	3743.02	1919.89
3744.82	1920	3745.26	1920.01	3747.51	1920.01	3771.7	1920.47	3792.25	1920.75
3798.71	1920.84	3798.98	1920.83	3803.67	1921	3817.77	1921	3826.34	1920.49
3832.07	1920.27	3834.94	1920.18	3836.89	1920.09	3841.72	1920	3849.34	1919.82
3849.52	1919.82	3853.5	1919.91	3855.27	1919.97	3856.46	1919.98	3857.55	1920
3860.68	1920.3	3868.02	1921	3880.12	1921.98	3880.52	1922.01	3892.71	1923
3900.32	1923.97	3900.72	1924.03	3907.94	1925	3921.98	1925	3928.63	1924.52
3933.04	1924.18	3934.89	1924.04	3935.31	1924	3944.3	1923.27	3946.66	1923
3949.51	1922.78	3951.96	1922.67	3959.82	1922.28	3964.07	1922.05	3965.86	1922
3968.6	1921.95	3970.96	1921.94	3973.47	1922	3977.24	1922	3983.03	1922.01
3985.73	1922.11	3988.65	1922.26	3994.95	1922.42	4004	1922.19	4004.05	1922.19
4007.5	1922.03	4010.44	1922	4016.52	1921.75	4018.23	1921.69	4024.69	1921.41
4025.93	1921.38	4027.33	1921.31	4034.07	1921.04	4036.24	1921.04	4041.73	1921
4045.47	1920.89	4046.09	1920.88	4048.18	1920.8	4048.61	1920.77	4054.78	1920.61
4056.09	1920.55	4064.37	1920.01	4064.4	1920.01	4065.49	1920.27	4067	1920.28
4068.74	1920.31	4077.11	1920.02	4077.6	1920	4079.37	1919.99	4080.97	1920
4082.53	1920	4082.58	1919.99	4085.16	1919.93	4098.83	1919.44	4109.58	1919.06
4110.99	1919	4112.49	1918.86	4123.35	1918	4129.27	1917.15	4130.25	1917
4131.76	1916.79	4134.55	1916.43	4136.87	1916.14	4138.78	1915.89	4139.66	1915.87
4147.03	1915.63	4151.51	1915.53	4162.26	1915.14	4163.54	1915.11	4166.65	1915
4197.88	1915	4213.76	1914.99	4228.91	1915	4258.06	1915	4299.11	1915.47
4299.53	1915.48	4301.3	1915.49	4304.11	1915.52	4328.35	1915.65	4344.85	1915.67
4345.25	1915.68	4345.89	1915.67	4348.38	1915.67	4348.55	1915.68	4351.87	1915.65
4355.69	1915.63	4356.09	1915.63	4361.82	1915.56	4362.62	1915.56	4371.71	1915.42
4372.89	1915.41	4380.78	1915.29	4381.09	1915.29	4382.87	1915.26	4383.24	1915.26
4384.44	1915.24	4384.82	1915.24	4386.18	1915.22	4394.89	1915	4396.47	1915
4396.64	1915.01	4407.82	1915.25	4409.03	1915.26	4412.06	1915.34	4416.06	1915.38
4433.07	1915.8	4437.69	1915.89	4441.07	1916	4465.37	1916.86	4470.43	1917
4547.8	1917	4558.01	1917.11	4559.44	1917.11	4560.58	1917.12	4561.75	1917.12
4563.49	1917.13	4569.04	1917.17	4569.44	1917.17	4584.26	1917.3	4585.23	1917.3
4585.98	1917.31	4588.18	1917.31	4633.65	1917.43	4668.7	1917.47	4670.1	1917.46
4677.16	1917.45	4683.18	1917.45	4683.64	1917.44	4690.71	1917.43	4709.58	1917.53
4741.89	1917.74	4745.27	1917.79	4755.26	1917.96	4756.39	1917.99	4758	1918
4758.92	1918	4780.58	1918.01	4812.44	1918.01	4850.86	1918	4879.45	1918
4888.81	1917.86	4890.29	1917.84	4918.19	1917.53	4923.83	1917.47	4938.69	1917.22
4941.02	1917.19	4951.05	1917	4964.24	1916.67	4995.21	1916	5005.56	1915.9
5005.81	1915.9	5041.06	1915.66	5063.53	1915.57	5063.97	1915.57	5071.43	1915.65
5081.22	1915.75	5081.65	1915.75	5088.9	1915.99	5094.77	1916	5112.05	1916.47
5115.31	1916.56	5131.83	1916.99	5133.06	1917	5136.84	1917.73	5138.07	1918
5139.21	1918.21	5143.41	1919	5144.64	1919.44	5147.14	1920	5147.27	1921
5147.42	1922	5147.53	1922.89	5147.66	1923.8	5147.73	1924	5148.08	1924.87
5148.79	1926	5149.45	1927	5150.08	1928	5150.32	1928.41	5150.54	1928.54
5151.6	1928.88	5153.17	1929.4	5153.79	1929.62	5154.81	1930	5155.3	1930.19
5156.57	1930.7	5158.29	1931.43	5159.62	1932	5160.41	1932.32	5167.32	1935
5168.11	1935.31	5169.91	1936	5171.66	1936.68	5174.33	1937.71	5175.07	1938
5177.13	1938.79	5177.66	1939	5199.72	1939.69	5208.36	1939.94	5210.32	1940
5222.55	1940	5223.49	1940.11	5224.19	1940.2	5231.42	1941	5261.83	1941

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	5261.83	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	5261.83	174.9	174.9	174.9	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1918.81	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.16	Wt. n-Val.		0.040	
W.S. Elev (ft)	1918.64	Reach Len. (ft)	174.90	174.90	174.90
Crit W.S. (ft)		Flow Area (sq ft)		6947.63	
E.G. Slope (ft/ft)	0.002775	Area (sq ft)		6947.63	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3283.99	Top Width (ft)		3283.99	
Vel Total (ft/s)	3.22	Avg. Vel. (ft/s)		3.22	
Max Chl Dpth (ft)	4.64	Hydr. Depth (ft)		2.12	
Conv. Total (cfs)	425204.0	Conv. (cfs)		425204.0	
Length Wtd. (ft)	174.90	Wetted Per. (ft)		3285.48	
Min Ch El (ft)	1914.00	Shear (lb/sq ft)		0.37	
Alpha	1.00	Stream Power (lb/ft s)	5261.83	0.00	0.00
Frctn Loss (ft)	0.52	Cum Volume (acre-ft)		987.95	
C & E Loss (ft)	0.00	Cum SA (acres)		451.33	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -14058.6

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1920.45	59.21	1920	61.41	1920	66.03	1919.99	68.58	1919.98
76.82	1919.98	114.52	1919.97	197.69	1919.88	220.22	1919.88	237.51	1919.86
241.07	1919.86	258.75	1919.87	272.66	1919.87	313.88	1919.82	322.97	1919.81
347.38	1919.81	357.71	1919.8	383.44	1919.8	501.22	1919.69	507.64	1919.69
508.4	1919.68	516.89	1919.68	521.54	1919.67	528.01	1919.67	530.28	1919.66
532.58	1919.66	555.73	1919.64	584.12	1919.61	590.77	1919.61	596.45	1919.6
598.98	1919.6	605.62	1919.59	615.58	1919.59	615.73	1919.58	629.47	1919.57
638.67	1919.56	650.82	1919.55	864	1919.47	903.38	1919.46	927.01	1919.45
943.82	1919.44	948.61	1919.44	1021.34	1919.41	1033.23	1919.41	1046.23	1919.4
1052.93	1919.4	1109.11	1919.38	1112.33	1919.38	1122.99	1919.37	1133.87	1919.37
1136.25	1919.1	1138.59	1919	1140.48	1919	1142.43	1918.94	1155	1918.54
1157.01	1918.48	1170.03	1918	1187.25	1918	1192.61	1918.06	1259.96	1918.92
1267.89	1918.93	1279.03	1918.67	1285.97	1918.49	1337.89	1918.11	1353.28	1918.01
1354.06	1918	1397.98	1918	1399.47	1917.99	1456.88	1917.59	1458.04	1917.59
1463.05	1917.57	1468.69	1917.54	1475.42	1917.5	1483.35	1917.46	1500.04	1917.4
1513.58	1917.37	1519.49	1917.32	1526.52	1917.25	1527.44	1917.25	1532.38	1917.19
1538.21	1917.13	1547.17	1917.01	1549.67	1917	1566.34	1916.9	1687	1916.77
1791.92	1916.78	1797.14	1916.83	1800.72	1916.83	1804.04	1916.82	1805.78	1916.84
1811.69	1916.84	1817.52	1916.82	1825.22	1916.79	1826.28	1916.79	1829.55	1916.75
1833.33	1916.69	1842.42	1916.69	1847.32	1916.59	1854.94	1916.63	1855.26	1916.62
1858.79	1916.63	1862.4	1916.54	1864.7	1916.55	1872.23	1916.2	1873	1916.19
1876.39	1916	1881.25	1915	1883.34	1914.62	1886.66	1914	1888.98	1913.55
1891.98	1913	1896.27	1912.93	1910.02	1912.8	1916.64	1912.83	1924.06	1912.8
1934.81	1912.89	1945.14	1913	1948.42	1913.11	1962.47	1913.49	1977.45	1914
1985.14	1914.21	1987.26	1914.26	1996.37	1914.49	2001.2	1914.61	2013.07	1914.91
2016.27	1915	2111.7	1915	2118.48	1914.85	2119.19	1914.86	2128.3	1914.69
2129.71	1914.71	2135.93	1914.63	2136.7	1914.63	2142.65	1914.58	2147.77	1914.55
2177.83	1914.99	2178.45	1915	2307.82	1915	2310.85	1914.94	2321.69	1914.7
2325.67	1914.61	2360.56	1914.41	2413.39	1914.96	2417.57	1915	2420.92	1915.07
2428.99	1915.22	2429.22	1915.22	2435.02	1915.31	2452.22	1915.6	2455.68	1915.67
2473.45	1915.99	2474.45	1916	2488.84	1916.05	2499.2	1916.08	2509.68	1916.04
2512.36	1916.04	2513.63	1916.03	2522.04	1916	2523.11	1916	2524.63	1915.95
2531.71	1915.74	2536.25	1915.61	2544.82	1915.4	2550.89	1915.24	2558.39	1915
2558.84	1915	2577.02	1914.72	2592.69	1914.49	2593.62	1914.48	2604.25	1914.3
2621.77	1914	2641.11	1914	2652.34	1913.99	2658.36	1914	2666.58	1914
2671.7	1914.2	2677.85	1914.47	2688.76	1915	2694.22	1915	2696.12	1915.02
2723.85	1915.25	2747.56	1915.33	2751.87	1915.3	2761.83	1915.15	2768.11	1915.02
2770.28	1915	2809.96	1915	2817.33	1915.36	2830.72	1916	2833.84	1916.01
2839.63	1916.18	2841.42	1916.19	2849.02	1916.22	2859.79	1916.27	2867.93	1916.35
2880.96	1916.47	2930.07	1916.94	2936	1917	2968.54	1917	2968.8	1916.99
3020.7	1916	3063.17	1916	3072.71	1916.09	3086.1	1916.21	3093.07	1916.26
3105.95	1916.4	3108.09	1916.41	3109.67	1916.44	3111.08	1916.44	3124.84	1916.64
3126.39	1916.66	3149.97	1917	3151.37	1917.01	3160.18	1917.04	3161.63	1917.04
3177.54	1917.13	3178.87	1917.14	3180.97	1917.14	3183.02	1917.15	3185.11	1917.18
3218.83	1917.07	3237.69	1917	3241.26	1917	3247.22	1917.05	3254.86	1917.1
3258.05	1917	3273.54	1916.98	3280.43	1916.98	3289.74	1916.97	3297.26	1916.97
3322.07	1917	3325.01	1917.09	3334.47	1917.36	3339.67	1917.5	3348.41	1917.69
3350.11	1917.75	3358.12	1918	3401.59	1918	3406.22	1917.81	3423.56	1917.37
3429.85	1917.29	3434.78	1917.42	3441.32	1917.44	3442.5	1917.44	3449.65	1917.49
3456.48	1917.49	3460.98	1917.48	3468.28	1917.47	3468.72	1917.48	3472.81	1917.46
3474.64	1917.48	3483.3	1917.5	3491.45	1917.51	3495.14	1917.46	3500.2	1917.41
3506.48	1917.33	3513.4	1917.23	3521.34	1917.01	3526.05	1917	3532.51	1917
3536.96	1917.25	3538.68	1917.34	3548.27	1918	3552.09	1918.26	3553.92	1918.41
3560.91	1919	3564.02	1919.33	3569.98	1920	3580.41	1920	3580.6	1920.01
3590.61	1920.41	3599.42	1920.76	3599.68	1920.75	3602.65	1921	3611.17	1921
3611.82	1920.96	3613.32	1920.73	3615.12	1920.43	3617.49	1920	3623.31	1918.91
3628.02	1918	3629.35	1917.75	3633.03	1917	3637.48	1916	3646.9	1916
3653.4	1916.01	3657.48	1916.02	3662.28	1916	3665.62	1916	3666.47	1916.06

3668.64	1916.19	3670.19	1916.3	3683.17	1917	3684.01	1917.05	3689.35	1917.39
3694.6	1917.72	3698.47	1918	3698.95	1918	3700.25	1918.12	3709.5	1918.53
3713.2	1918.65	3713.51	1918.65	3715.7	1918.58	3719.53	1918.39	3719.72	1918.39
3723.77	1918	3734.53	1917.07	3737.39	1916.83	3741.96	1916.46	3743.76	1916.33
3744.72	1916.24	3746.27	1916.15	3747.62	1916	3755.45	1915.53	3759.38	1915.28
3760.11	1915.24	3762.34	1915.09	3764.06	1915	3765.76	1915	3767.29	1915.07
3779.11	1916	3783.71	1916.72	3785.57	1917	3792.11	1918	3794.72	1918.35
3799.41	1919	3808.67	1919.79	3811.33	1920	3813.53	1920.21	3821.47	1921
3823.35	1921.09	3831.29	1921.18	3841.94	1921.11	3849.64	1921.13	3851.41	1921.11
3853.04	1921.11	3855.93	1921.08	3859.15	1921	3868.99	1920.73	3880.05	1920.42
3889.63	1920	3890.71	1919.95	3900.4	1919.48	3903.51	1919.27	3905.03	1919.19
3905.54	1919.18	3907.26	1919.08	3908.02	1919.12	3910.93	1919.37	3912.75	1919.52
3917.84	1920	3933.1	1920.87	3934.52	1920.91	3935.33	1920.92	3939.58	1920.74
3945.58	1920.44	3947.42	1920.33	3950.64	1920.15	3953.09	1920	3955.08	1919.89
3972.6	1919	3987.59	1919	3989.32	1919.13	3990.48	1919.24	3996.33	1920
4001.32	1920.61	4004.34	1921	4007.74	1921.42	4008.29	1921.48	4011.59	1921.89
4012.54	1922	4016.36	1922.02	4018.11	1922.02	4022.08	1922	4022.26	1921.99
4029.84	1921.74	4030.91	1921.69	4039.07	1921.44	4041.99	1921.36	4043.28	1921.29
4047.69	1921	4048.61	1920.97	4050.68	1920.93	4056.57	1920.72	4057.99	1920.72
4058.6	1920.56	4060.27	1920.39	4060.98	1920.37	4066.28	1920.32	4069.62	1920.07
4071.06	1920	4074.09	1919.58	4077.24	1919.33	4080.96	1919	4085.79	1918.54
4091.26	1918	4092.41	1917.87	4094.39	1917.62	4100.68	1917	4108.87	1916.26
4111.54	1916	4118.48	1915.58	4132.6	1915	4178.84	1915	4180.88	1915.1
4198.35	1916	4225.94	1916	4256.77	1915	4257.45	1914.98	4277.36	1914.26
4279.93	1914.18	4282.28	1914.1	4284.64	1914.04	4285.34	1914.04	4290.37	1914
4322.28	1914	4325.03	1914.09	4346.52	1915	4355.58	1915.35	4363.92	1915.52
4369.06	1915.6	4371.13	1915.6	4376.49	1915.58	4382.6	1915.54	4384.52	1915.52
4395.99	1915.29	4397.13	1915.26	4410.45	1915	4502.61	1915	4519.35	1915.69
4526.47	1916	4570.94	1916.82	4580.19	1917	4788.25	1917	4800.74	1917.19
4804.79	1917.26	4824.92	1917.69	4829.12	1917.77	4831.61	1917.81	4832.3	1917.83
4834.61	1917.87	4840.19	1918	4997.18	1918	5011.53	1917.66	5018.54	1917.5
5040.53	1916.99	5075	1916	5103.66	1915.66	5103.86	1915.66	5163.85	1915
5166.13	1915	5166.29	1915.01	5176.8	1915.53	5176.92	1915.54	5188.39	1916
5194.87	1916.48	5201.56	1917	5207.04	1917.49	5212.2	1918	5219.34	1919
5224.84	1920	5229.49	1921.49	5231.26	1922	5233.15	1922.61	5234.68	1923
5238.85	1924.2	5241.53	1925	5242.65	1925.32	5244.96	1926	5248.41	1927
5250.37	1927.75	5251.6	1928.25	5253.6	1929	5256.04	1929.93	5258.77	1931
5261.29	1932	5263.92	1933	5266.4	1933.89	5269.37	1935	5272.23	1936
5273.98	1936.38	5276.74	1937	5277.15	1937.06	5282.91	1938	5285.1	1938.14
5285.32	1938.14	5295.77	1938.3	5298.26	1938.36	5314.6	1938.68	5314.74	1938.68

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	5314.74	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	5314.74	138.34	138.34	138.34	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1918.29	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.16	Wt. n-Val.		0.040	
W.S. Elev (ft)	1918.13	Reach Len. (ft)	138.34	138.34	138.34
Crit W.S. (ft)		Flow Area (sq ft)		6881.10	
E.G. Slope (ft/ft)	0.003134	Area (sq ft)		6881.10	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3511.83	Top Width (ft)		3511.83	
Vel Total (ft/s)	3.26	Avg. Vel. (ft/s)		3.26	
Max Chl Dpth (ft)	5.32	Hydr. Depth (ft)		1.96	
Conv. Total (cfs)	400142.3	Conv. (cfs)		400142.3	
Length Wtd. (ft)	138.34	Wetted Per. (ft)		3513.38	
Min Ch El (ft)	1912.80	Shear (lb/sq ft)		0.38	
Alpha	1.00	Stream Power (lb/ft s)	5314.74	0.00	0.00
Frctn Loss (ft)	0.44	Cum Volume (acre-ft)		960.19	
C & E Loss (ft)	0.00	Cum SA (acres)		437.69	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -14197.0

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1919.9	9.31	1919.88	30.04	1919.86	37.54	1919.86	56.68	1919.82
66.94	1919.81	74.97	1919.8	363.39	1919.69	387.65	1919.68	402.24	1919.67
415.63	1919.67	460.89	1919.65	476.45	1919.65	480.65	1919.64	515.95	1919.63
524.7	1919.63	532.76	1919.62	556.24	1919.62	559.33	1919.61	566.83	1919.61
860.65	1919.5	887.96	1919.49	896.35	1919.48	906.43	1919.48	913.98	1919.47
919.55	1919.45	934.4	1919.39	935.46	1919.38	941.29	1919.36	954.54	1919.31
955.9	1919.3	965.78	1919.26	967.57	1919.25	991.67	1919.15	993.47	1919.15
1009.05	1919.08	1020.87	1919.03	1040.26	1918.96	1040.93	1918.92	1047.21	1918.63
1057.93	1918.16	1059.18	1918.11	1061.66	1918	1131.79	1918	1137.02	1918.01

1143.79	1918	1157.62	1917.9	1174.96	1917.81	1175.37	1917.8	1195.12	1917.68
1195.79	1917.67	1212.08	1917.56	1217.38	1917.53	1230.6	1917.44	1232.55	1917.43
1234.37	1917.41	1238.9	1917.39	1247.23	1917.32	1256.26	1917.28	1277.85	1917.15
1281.63	1917.12	1295.12	1917	1304.88	1917	1326.19	1916.87	1348.86	1916.74
1365.63	1916.64	1377.65	1916.56	1404.82	1916.44	1423.42	1916.38	1433.96	1916.24
1448.77	1916	1450.85	1915.99	1463.23	1915.97	1465.2	1915.97	1565.93	1915.76
1568.26	1915.76	1576.96	1915.78	1673.39	1915.91	1677.31	1915.94	1678.9	1915.94
1679.78	1915.95	1681.26	1915.95	1682.35	1915.96	1683.63	1915.96	1692.15	1916.01
1697.54	1916.03	1720.39	1916.11	1746.2	1916.01	1749.03	1916.02	1750.02	1916
1759.81	1915.26	1762.42	1915	1766.3	1914.37	1768.65	1914	1773.63	1913.21
1774.88	1913	1781.58	1913	1787.09	1912.74	1787.36	1912.74	1789	1912.64
1790.57	1912.58	1796.25	1912.25	1797.39	1912.21	1798.6	1912.13	1800.16	1912
1829.9	1912	1833.59	1912.17	1835.42	1912.21	1838.09	1912.29	1838.58	1912.3
1849.78	1912.68	1850.58	1912.7	1863.44	1913	1864.07	1913	1883.57	1913.22
1888.09	1913.28	1890.98	1913.31	1921.21	1913.66	1923.88	1913.7	1930	1913.78
1933.36	1913.83	1946.01	1914	1948.88	1914	1961.43	1914.28	1964.37	1914.33
1978.92	1914.61	1979.65	1914.61	1985.35	1914.73	1987.46	1914.73	1987.57	1914.74
1989.59	1914.74	2004.03	1914.84	2010.65	1914.88	2015.03	1914.88	2015.15	1914.87
2016.88	1914.87	2035.34	1915	2245.09	1915	2249.91	1914.98	2253.45	1914.97
2262.82	1915	2433.11	1915	2456.34	1914.44	2460.51	1914.35	2467.03	1914.16
2472.77	1914	2475.39	1913.97	2477.05	1913.96	2479.39	1913.96	2496.81	1913.62
2516.52	1913.27	2524.96	1913	2541.21	1913	2545.01	1913.29	2547.12	1913.46
2547.95	1913.52	2549.1	1913.62	2552.71	1914	2558.61	1914.61	2562.26	1915
2676.55	1915	2680.96	1915.23	2695.99	1916	2700.31	1916.01	2701.95	1916.01
2732.11	1916.37	2750.42	1916.48	2753.51	1916.47	2756.56	1916.47	2769.66	1916.22
2776.48	1916.05	2779.96	1916.05	2780.21	1916.04	2784.47	1916.04	2785.67	1916.03
2789.48	1916.01	2790.21	1916	2846.42	1916	2863.83	1916.36	2889.83	1916.86
2895.88	1916.98	2897.94	1917	3026.43	1917	3038.69	1917.01	3049.79	1917
3061.36	1917	3063.9	1916.89	3064.33	1916.88	3075.73	1916.43	3085.87	1916.28
3087.49	1916.25	3090.44	1916.18	3096.29	1916.07	3099.42	1916.02	3101.57	1916.02
3113.64	1916.1	3114.3	1916.1	3121.23	1916.14	3127.56	1916.18	3133.93	1916.18
3139.97	1916.17	3143.57	1916.18	3147.9	1916.2	3147.98	1916.21	3151.08	1916.21
3152.45	1916.22	3153.89	1916.24	3158.07	1916.33	3158.42	1916.33	3166.37	1916.5
3166.96	1916.52	3169.52	1916.58	3172.66	1916.63	3178.46	1916.78	3195.21	1917
3332.9	1917	3339.16	1917.42	3340.07	1917.45	3342.37	1917.48	3351.17	1917.58
3357.15	1917.66	3362.67	1917.71	3366.48	1917.76	3374.76	1917.79	3377.35	1917.82
3379.76	1917.81	3383.64	1917.81	3387.15	1917.7	3388.17	1917.7	3390.31	1917.66
3401.59	1917.26	3402.94	1917.21	3404.24	1917.15	3408.43	1917	3425.24	1917
3441.24	1917.9	3443.86	1918.02	3445.02	1918.14	3448.68	1918.47	3449.13	1918.5
3454.59	1919	3459	1919.45	3464.67	1920	3470.05	1920.21	3473.25	1920.31
3481.8	1920.55	3492.17	1920.55	3505.11	1920.44	3511.57	1920.24	3518.32	1920.01
3519.1	1920	3533.42	1919.1	3534.09	1919.05	3535.55	1918.96	3547.9	1918
3552.52	1917.72	3559.66	1917.45	3564.68	1917.21	3568.46	1917.14	3571.73	1917
3576.69	1916.94	3579.29	1916.88	3588.15	1916.82	3594.5	1916.97	3602.31	1916.99
3605.14	1917	3607.57	1917.2	3613.77	1917.72	3614.27	1917.77	3617.02	1918
3646.59	1918	3653.6	1917.56	3660.65	1917	3663.87	1916.55	3669.08	1916
3678.26	1915	3687.89	1915	3694.94	1915.91	3696.38	1916.09	3703.53	1917
3707.97	1917.11	3711.93	1917.2	3717.28	1917.34	3739.88	1917.99	3740.13	1918
3749.94	1918.69	3754.48	1919	3773.92	1920	3774.26	1920	3776.06	1920.25
3777.32	1920.37	3778.79	1920.52	3779.85	1920.61	3782.06	1920.86	3783.66	1920.98
3785.04	1920.84	3786.35	1920.67	3789.87	1920.19	3791.15	1920	3791.22	1920
3791.98	1919.82	3792.56	1919.74	3795.04	1919.28	3795.66	1919.18	3796.87	1919.08
3797.97	1919	3800.18	1918.98	3801.94	1919.01	3803.83	1919.13	3808.9	1919.48
3809.36	1919.49	3811.4	1919.64	3811.83	1919.63	3817.67	1919.71	3822.42	1919.7
3823.22	1919.68	3829.6	1919.58	3834.59	1919.53	3836.35	1919.47	3843	1919.49
3843.51	1919.47	3845.17	1919.47	3851.51	1919.48	3853.41	1919.5	3854.69	1919.49
3861.18	1919.58	3861.33	1919.57	3863.93	1919.51	3867.55	1919.4	3867.87	1919.4
3874.11	1919	3881.54	1918.26	3884.68	1918	3889.62	1917.38	3892.67	1917
3894.22	1916.78	3898.88	1916	3903.51	1915.43	3904.51	1915.37	3911.83	1915
3996.36	1915	3998.28	1915.02	4066.61	1915.24	4110.4	1915.37	4111.3	1915.36
4111.81	1915.37	4114.02	1915.34	4123.72	1915.2	4135.75	1915	4136.21	1915
4141.5	1914.76	4143.55	1914.68	4153.92	1914.22	4154.1	1914.22	4159.91	1914.03
4162.18	1914.04	4163.05	1914.05	4168.34	1914.07	4169.73	1914.08	4181.24	1914.02
4182.88	1914.03	4184.39	1914.02	4185.77	1914.02	4188.33	1914.01	4194.5	1914.02
4197.3	1914.02	4201.12	1914.03	4205.15	1914.03	4215.47	1914.16	4239.83	1914.44
4241.5	1914.45	4245.17	1914.45	4278.58	1914.51	4306.6	1914.54	4314.98	1914.54
4343.2	1914.71	4388.5	1915	4395.54	1915	4407.28	1915.41	4427.98	1916
4431.83	1916.2	4434.85	1916.35	4438.3	1916.53	4442.27	1916.7	4443.74	1916.74
4444.21	1916.77	4445.8	1916.8	4446.16	1916.82	4453.95	1916.98	4456.5	1917
4698.98	1917	4700.88	1917.01	4709.68	1917.17	4716.72	1917.26	4722.41	1917.33
4725.17	1917.36	4727.92	1917.38	4761.57	1917.47	4786.85	1917.53	4803.23	1917.55
4820.39	1917.56	4823.52	1917.55	4836.3	1917.39	4862.75	1917.06	4864.45	1917.02
4866.43	1916.99	4866.96	1916.99	4873.88	1916.83	4888.65	1916.55	4888.93	1916.54
4900.77	1916.36	4907.16	1916.29	4913.1	1916.19	4921.12	1916.04	4921.44	1916.04
4923.35	1916	4940.79	1915.79	4952.58	1915.69	4957.19	1915.64	4968.91	1915.6
4983.95	1915.53	4993.98	1915.46	5001.72	1915.41	5006.06	1915.39	5006.85	1915.38
5049.96	1915.04	5054.37	1915	5056.82	1915	5057.22	1915.01	5080.19	1915.62
5081.01	1915.59	5082.59	1915.6	5083.39	1915.58	5084.16	1915.6	5084.92	1915.58
5086.03	1915.59	5090.49	1915.69	5097.6	1915.94	5099.16	1916.05	5111.78	1917
5115.38	1917.2	5119.24	1917.43	5121.45	1917.55	5122.91	1917.65	5129.49	1917.99
5129.62	1918	5132.81	1918.66	5134.1	1919	5134.94	1919.25	5135.85	1919.58
5137.19	1920	5138.02	1920.29	5140.16	1921	5142.52	1921.8	5143.65	1922.16
5145.42	1923	5146.6	1923.59	5147.51	1924	5149.06	1924.73	5150.01	1925.14
5151.88	1926	5152.44	1926.25	5154.21	1927	5156.15	1927.81	5159.47	1929
5159.98	1929.14	5162.44	1930	5163.81	1930.39	5165.54	1931	5168.56	1931.75
5169.53	1932	5171.15	1932.32	5174.53	1933	5176.16	1933.39	5177.24	1933.7
5178.03	1934	5181.84	1935.57	5182.93	1936	5185.26	1936.89	5185.75	1937
5213.44	1937	5221.13	1936.97	5224.6	1936.98	5229.4	1937	5241.15	1937.45

5242.07	1937.5	5248.2	1937.77	5253.82	1938	5262.79	1938.29	5264.79	1938.38

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	5264.79	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	5264.79	251.45	251.45	251.45	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

			Left OB	Channel	Right OB
E.G. Elev (ft)	1917.85	Element			
Vel Head (ft)	0.16	Wt. n-Val.		0.040	
W.S. Elev (ft)	1917.68	Reach Len. (ft)	251.45	251.45	251.45
Crit W.S. (ft)		Flow Area (sq ft)		6872.57	
E.G. Slope (ft/ft)	0.003237	Area (sq ft)		6872.57	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3587.26	Top Width (ft)		3587.26	
Vel Total (ft/s)	3.26	Avg. Vel. (ft/s)		3.26	
Max Chl Dpth (ft)	5.68	Hydr. Depth (ft)		1.92	
Conv. Total (cfs)	393730.3	Conv. (cfs)		393730.3	
Length Wtd. (ft)	251.45	Wetted Per. (ft)		3588.41	
Min Ch El (ft)	1912.00	Shear (lb/sq ft)		0.39	
Alpha	1.00	Stream Power (lb/ft s)	5264.79	0.00	0.00
Frctn Loss (ft)	0.82	Cum Volume (acre-ft)		938.35	
C & E Loss (ft)	0.00	Cum SA (acres)		426.41	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -14448.4

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1919.63	2.04	1919.63	14.66	1919.61	17.69	1919.6	169.75	1919.41
172.54	1919.4	179.03	1919.39	184.25	1919.39	199.31	1919.37	212.78	1919.35
247.36	1919.31	301.61	1919.23	356.79	1919.16	359.73	1919.16	383.53	1919.13
392	1919.11	408.37	1919.09	414.39	1919.09	415.48	1919.08	422.01	1919.08
422.58	1919.07	428.09	1919.07	432.04	1919.06	437.1	1919.06	438.54	1919.05
444.93	1919.05	505.08	1918.97	510.68	1918.96	539.17	1918.92	550.71	1918.91
561.06	1918.89	573.93	1918.88	595.35	1918.85	598.35	1918.84	601.52	1918.84
605.2	1918.83	650.89	1918.77	686.59	1918.73	735.78	1918.66	779.66	1918.6
780.55	1918.6	818.35	1918.55	841.96	1918.52	875.68	1918.48	908.29	1918.44
908.69	1918.43	971.04	1918.35	991.91	1918.33	1011.69	1918.3	1015.91	1916.3
1017.97	1915	1023.2	1915.01	1024.82	1915	1032.52	1915	1068.34	1916
1098.1	1916.01	1150.46	1916.01	1175.1	1916	1227.13	1916	1262.11	1916.01
1279.58	1916.01	1321.59	1916	1334.53	1915.69	1340.73	1915.55	1342.97	1915.51
1353.04	1915.29	1355.56	1915.25	1362.04	1915.17	1366.23	1915.1	1371.15	1915.03
1372.52	1915	1409.22	1915	1462.06	1914.56	1464.53	1914.55	1480.08	1914.46
1482.72	1914.45	1494.68	1914.38	1495.85	1914.38	1504.79	1914.32	1509.85	1914.3
1515.73	1914.27	1520.39	1914.24	1523.78	1914.23	1526.49	1914.21	1544.58	1914.29
1584.58	1914.47	1585.46	1914.49	1589.67	1914.55	1596.52	1914.54	1603.56	1914.54
1604.52	1914.56	1610.11	1914.53	1611.2	1914.55	1613.65	1914.56	1617.72	1914.6
1621.23	1914.65	1631.95	1914.87	1640.91	1915	1644.69	1915	1647.95	1915.01
1651.73	1915	1654.92	1915.03	1656.83	1915.02	1658.03	1915.03	1661.65	1915.02
1668.57	1915.04	1673.78	1915.03	1676	1915	1682.54	1914.65	1683.09	1914.63
1688.14	1914.37	1695.16	1914	1703.76	1913.16	1706.73	1912.8	1712.94	1912
1749.67	1912	1761.48	1912.33	1780.93	1912.71	1791.54	1912.94	1792.87	1912.94
1798.91	1913	1913.8	1913	1915.15	1913.02	1927.22	1913.03	1934.24	1913.05
1952.47	1913	1986.59	1913	1992.51	1913.13	1994.27	1913.16	1999.42	1913.27
2034.37	1914	2057.91	1914	2060.13	1913.99	2063.39	1913.94	2066.39	1913.87
2071.15	1913.74	2075.29	1913.71	2076.49	1913.67	2095.42	1913.63	2112.25	1913.6
2114.99	1913.58	2119.06	1913.79	2119.37	1913.79	2122.87	1914	2133.19	1914.13
2144.62	1914.28	2152.82	1914.38	2154.44	1914.39	2166.27	1914.55	2166.87	1914.55
2174.3	1914.63	2179.54	1914.68	2208.47	1914.78	2209.63	1914.78	2218.02	1914.73
2219.94	1914.71	2222.68	1914.71	2228.12	1914.68	2231.61	1914.65	2234.81	1914.64
2282.57	1914.35	2337.58	1914	2378.15	1914	2386.6	1913.84	2395.41	1913.65
2406.83	1913.41	2428.33	1913.07	2430.4	1913.03	2434.93	1913.02	2440.15	1913
2546.29	1913	2564.59	1914	2569.79	1914.16	2584.46	1914.57	2592.03	1914.77
2599.9	1915	2612.86	1915.64	2616.87	1915.86	2619.7	1916	2742.45	1916
2752.61	1916.37	2764.75	1916.82	2770.06	1917.02	2841.75	1917	2846.49	1916.99
2849.82	1916.97	2861.87	1916.61	2869.45	1916.45	2878.63	1916.25	2882.2	1916.16
2886.96	1916	2906.6	1916	2914.05	1916.01	2924.35	1916.03	2929.61	1916.14
2931.68	1916.15	2957.91	1916.38	2958.18	1916.38	2965.42	1916.25	2967.29	1916.28
2972.61	1916.24	2973.23	1916.25	2983.39	1916.14	2983.73	1916.13	2990	1916.04
2995.83	1916	2999.22	1915.96	3001.38	1915.91	3007.39	1915.63	3008.87	1915.57
3021.08	1915	3050.95	1915	3054.27	1915.12	3060.66	1915.33	3065.78	1915.46
3065.93	1915.47	3073.2	1915.71	3074.15	1915.75	3081.5	1916	3099.59	1916.27
3100.76	1916.29	3143.19	1916.98	3150.82	1916.98	3159.44	1917	3188.96	1917
3189.89	1916.97	3214.54	1916.51	3224.42	1916.39	3225.42	1916.36	3226.92	1916.41
3230.36	1916.47	3230.93	1916.5	3238.24	1916.51	3239.12	1916.53	3251.36	1916.85
3255.03	1916.96	3258.24	1917	3265.69	1917.21	3288.75	1917.42	3303.88	1917.48

3304.69	1917.48	3315.04	1917.34	3315.59	1917.34	3325.94	1917.16	3334.59	1917
3335.37	1917	3345.86	1916.49	3355	1916	3361.2	1915.99	3364.3	1916
3372.6	1916.37	3373.34	1916.39	3379.84	1916.67	3383.8	1916.66	3388.09	1916.61
3391.82	1916.49	3396.69	1916.35	3399.56	1916.24	3403.93	1916.16	3404.39	1916.14
3408.5	1916.09	3409.61	1916.06	3412.71	1916.06	3415.86	1916.15	3424.73	1916.3
3426.6	1916.38	3435.37	1916.58	3442.46	1916.96	3443.3	1917	3458.77	1917.4
3464.68	1917.54	3470.02	1917.57	3474.97	1917.58	3475.34	1917.56	3477.63	1917.66
3478.54	1917.52	3481.07	1917.06	3484.14	1916.3	3485.6	1916	3488.49	1915.68
3491.78	1915.36	3495.9	1915	3505.26	1914.97	3518.72	1914.95	3520.8	1914.94
3524.75	1914.95	3532.97	1914.59	3533.11	1914.59	3537.72	1915	3538.52	1915.5
3539.44	1916	3540.06	1916.4	3540.68	1916.62	3541.53	1917	3542.12	1917.47
3542.61	1917.55	3544.16	1918.19	3546.04	1919	3548.39	1920.03	3548.98	1920.17
3549.77	1920.29	3550.6	1920.32	3551.39	1920.3	3555.71	1919.84	3557.59	1919.72
3558.99	1919.5	3561.3	1919	3566.68	1918.99	3572.81	1918.22	3575.01	1918
3584.55	1917.42	3588.8	1917	3595.41	1916.99	3600.62	1917	3605.42	1917
3607.92	1916.87	3611.09	1916.77	3620.13	1916.39	3628.55	1916.17	3632.9	1916.04
3636.6	1915.9	3637.14	1915.87	3641.39	1915.7	3642.97	1915.61	3649.24	1915.31
3655.31	1915	3680.16	1915	3680.68	1915.01	3685.78	1915.38	3695.22	1916
3696.45	1916.07	3699.12	1916.49	3703.41	1917	3706.08	1917.9	3711.7	1920
3714.4	1921	3715.87	1921	3721.39	1920	3721.98	1919.98	3723.39	1919.58
3725.81	1919.11	3727.48	1918.61	3729.94	1918.2	3731.39	1918	3736.26	1917.39
3739.07	1917	3740.4	1916.85	3746.61	1916	3747.77	1915.93	3757.84	1915
3760.85	1914.99	3780.67	1914.99	3795.32	1914.98	3801.26	1914.99	3810.66	1914.99
3813.58	1915	4072.19	1915	4084.02	1914.76	4108.46	1914.24	4117.1	1914.06
4119.29	1914.02	4129.19	1913.73	4151.9	1913.1	4155.35	1913	4184.8	1913
4188.61	1913.11	4195.68	1913.3	4201.43	1913.45	4217.97	1914	4218.21	1914.02
4223.57	1914.03	4239.9	1914.36	4251.74	1914.5	4260.31	1914.5	4265.39	1914.52
4270.23	1914.52	4285.34	1914.74	4301.82	1915	4315.89	1915	4320.57	1914.96
4324.51	1914.99	4324.69	1914.98	4330.41	1915	4356.25	1915	4357.66	1914.99
4360.17	1915	4370.84	1914.99	4380.33	1914.99	4380.82	1915	4390.75	1915
4399.63	1915.26	4409.15	1915.52	4420.22	1915.7	4434.73	1915.98	4437.08	1915.98
4438.93	1916	4585.71	1916	4672.39	1916.5	4728.48	1916.83	4734.3	1916.86
4738.04	1916.89	4743.34	1916.92	4744.69	1916.92	4756.94	1917	4811.52	1917
4824.42	1916.48	4826.5	1916.39	4837.71	1916	4844.58	1915.75	4856.76	1915.37
4862.44	1915.18	4871.15	1915	4878.04	1914.97	4885.87	1914.93	4887.58	1914.93
4895.2	1914.88	4907.15	1914.97	4910.52	1914.98	4911.15	1915	5012.75	1915
5014.15	1915.05	5017.29	1915.13	5048.64	1916	5059.7	1917	5061.15	1917.23
5062.26	1917.29	5063.43	1917.41	5067.81	1918	5071.21	1918.35	5077.65	1919
5084.94	1919.78	5087.05	1920	5091.19	1920.57	5093.35	1920.81	5098.8	1921.34
5105.05	1922	5111.03	1922.6	5114.05	1923	5118.92	1923.71	5120.71	1924
5123.58	1924.37	5127.79	1925	5130.37	1925.65	5131.56	1926	5132.47	1926.32
5134.74	1926.83	5135.24	1926.98	5135.7	1927	5139.86	1927.97	5140.42	1928
5141.63	1928.26	5145.59	1929.14	5146.99	1929.53	5149.23	1929.97	5149.87	1930.04
5152.46	1930.51	5154.87	1930.99	5156.88	1931.33	5160.7	1932.02	5167.47	1933
5173.26	1933	5198.36	1933.85	5201.6	1934	5203.27	1934.03	5208.68	1934.04
5213.17	1934.08	5214.6	1934.15	5216.72	1934.14	5218.16	1934.32	5219.06	1934.36
5219.63	1934.44	5220.52	1934.51	5223.03	1934.81	5223.96	1934.89	5225.32	1934.91
5228.5	1934.88	5229.17	1934.94	5240.58	1934.86	5242.57	1934.97	5244.01	1934.98
5253.94	1934.97	5257.66	1934.98	5260.34	1935	5261.59	1935.27	5264	1935.25
5268.01	1935.56	5268.57	1935.62	5275.53	1935.58	5285.62	1935.99	5288.82	1935.99

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	5288.82	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	5288.82	170.92	170.92	170.92	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1917.03	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.17	Wt. n-Val.		0.040	
W.S. Elev (ft)	1916.87	Reach Len. (ft)	170.92	170.92	170.92
Crit W.S. (ft)		Flow Area (sq ft)		6846.68	
E.G. Slope (ft/ft)	0.003276	Area (sq ft)		6846.68	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3585.25	Top Width (ft)		3585.25	
Vel Total (ft/s)	3.27	Avg. Vel. (ft/s)		3.27	
Max Chl Dpth (ft)	4.87	Hydr. Depth (ft)		1.91	
Conv. Total (cfs)	391346.8	Conv. (cfs)		391346.8	
Length Wtd. (ft)	170.92	Wetted Per. (ft)		3587.24	
Min Ch El (ft)	1912.00	Shear (lb/sq ft)		0.39	
Alpha	1.00	Stream Power (lb/ft s)	5288.82	0.00	0.00
Frctn Loss (ft)	0.51	Cum Volume (acre-ft)		898.75	
C & E Loss (ft)	0.01	Cum SA (acres)		405.71	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -14619.3

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1919.6	17.19	1919.58	31.18	1919.56	63.41	1919.52	67.36	1919.51
79.66	1919.5	93.8	1919.48	132.93	1919.43	182.49	1919.36	235.19	1919.29
269.5	1919.25	323.81	1919.18	391.93	1919.09	470.63	1918.98	500.8	1918.94
524.36	1918.91	665.47	1918.73	712.87	1918.66	923.22	1918.39	1044.68	1918.23
1046.5	1915.25	1046.67	1914.69	1056.58	1914.9	1065.09	1915	1092.83	1915.02
1103.24	1915.02	1115.94	1915.03	1129.41	1915.04	1161.62	1915.04	1172.3	1915.03
1206.87	1915.14	1218.79	1915.08	1221.65	1915.09	1225.47	1915.1	1227.18	1915.09
1239.3	1915	1250.64	1914.92	1257.47	1914.9	1258.99	1914.89	1271.05	1914.85
1273.41	1914.84	1285.51	1914.77	1291.89	1914.74	1293.08	1914.74	1294.53	1914.75
1302.2	1914.69	1302.44	1914.69	1309.06	1914.64	1365.41	1914.83	1413.5	1915
1493.59	1915	1508.58	1914.79	1518.44	1914.66	1538.06	1914.39	1546.06	1914.29
1557	1914.16	1557.41	1914.16	1570.19	1914	1625.33	1914	1639.98	1914.37
1642.61	1914.39	1660.72	1914.42	1677.46	1914.44	1681.73	1914.47	1686.44	1914.24
1691.01	1914	1692.93	1914	1698.79	1913.42	1703.13	1913	1707.01	1912.53
1710.27	1912	1731.24	1912	1738.01	1912.03	1739.12	1912.03	1741.8	1912.06
1742.16	1912.06	1751.76	1912.28	1768.29	1912.27	1785.17	1912.28	1855.88	1913
1995.09	1913	2007.94	1913.01	2018.69	1913.01	2107.61	1913.82	2123.95	1913.91
2129.12	1913.94	2130.73	1913.98	2132.25	1914	2176.89	1914	2196.2	1914.01
2207.39	1914	2236.32	1914	2241.59	1913.95	2260.67	1913.79	2261.74	1913.79
2288.08	1913.56	2328.02	1913	2485.96	1913	2488.48	1912.99	2500.71	1912.99
2528.46	1913	2573.1	1913	2573.88	1913.09	2581.26	1914	2587.85	1914.74
2590.23	1915	2702.01	1915	2715.98	1915.01	2751.2	1915.03	2753.8	1915
2790.09	1915	2792.9	1915.02	2793.33	1915.02	2794.88	1915.05	2805.27	1915.23
2819.22	1915.36	2824.44	1915.43	2836.94	1915.55	2845.08	1915.63	2856.12	1915.78
2858.81	1915.79	2872.36	1916	2874.01	1916.04	2874.24	1916.04	2890.22	1916.38
2890.59	1916.38	2894.42	1916.46	2894.71	1916.46	2900.9	1916.55	2901.57	1916.55
2904.43	1916.58	2906	1916.57	2921.5	1916.71	2947.32	1916.95	2947.4	1916.96
2948.4	1916.97	2949.92	1917	2991.52	1917	2995.26	1916.97	3017.56	1916.77
3021.58	1916.69	3021.68	1916.68	3026.76	1916.57	3026.99	1916.57	3050.64	1916
3050.68	1916	3074.11	1915	3123.3	1915	3125.03	1915.04	3140.94	1915.42
3142.85	1915.47	3159.15	1915.84	3165.27	1915.97	3166.33	1916	3168.93	1916.01
3170.53	1916.01	3171.85	1916.02	3172.84	1916.01	3175.5	1916.01	3177.44	1916
3193.59	1916	3211.12	1915.66	3224.16	1915.47	3242.04	1915.37	3253.86	1915.31
3258.66	1915.33	3261.89	1915.35	3263.46	1915.35	3264.71	1915.36	3291.39	1915.24
3332.06	1915	3382.28	1915	3384.16	1915.01	3397.01	1915.01	3397.69	1915.02
3404.26	1915.02	3416.24	1915.01	3435.62	1915	3441.14	1914.58	3448.99	1914
3452.44	1914	3454.96	1915	3455.3	1915.12	3457.2	1915.75	3459.33	1916.48
3463.84	1918	3466.17	1918.79	3466.82	1919	3469.77	1920	3476.88	1920
3478.83	1919.71	3480.07	1919.55	3482.28	1919.29	3484.36	1919	3485.03	1918.91
3491.27	1918	3492.79	1917.77	3497.91	1917	3501.58	1916.96	3502.84	1916.95
3505.49	1916.98	3508.6	1917	3512.99	1917.36	3513.36	1917.4	3514.03	1917.45
3515.15	1917.55	3519.17	1917.84	3520.97	1918	3521.3	1918	3521.67	1918.03
3524.01	1918.16	3534.82	1919	3537.51	1919.84	3538.08	1920	3538.55	1920.12
3541.81	1921	3544.54	1921.72	3545.58	1922	3547.02	1922.35	3550.38	1923
3553.34	1923	3555.12	1922.73	3557.76	1922.52	3559.86	1922.32	3560.51	1922.25
3563.02	1922	3566.6	1921.74	3569.31	1921.94	3570.29	1922	3572.47	1922.4
3575.85	1923	3581.45	1924	3583.88	1924.02	3585.63	1924.04	3588.22	1924.01
3589.2	1924.01	3590.05	1924	3590.94	1923.97	3592.02	1923.97	3593	1923.94
3596.49	1923.89	3601.19	1923.12	3601.65	1923	3603.72	1922.4	3604.78	1922.1
3605.16	1922	3608.8	1921	3609.7	1920.68	3611.06	1920.36	3612.41	1920
3612.55	1919.98	3616.08	1919	3619.69	1918.32	3621.42	1918	3625.88	1917.17
3629.07	1916.58	3630	1916.42	3631.74	1916.18	3632.48	1916.07	3632.81	1916
3633.92	1915.91	3635.01	1915.83	3645.52	1915	3649.51	1914.87	3668.13	1914.09
3672.86	1914.03	3673.75	1914.03	3675.54	1914	3764.31	1914	3785.5	1914.4
3786.12	1914.41	3818.52	1914.72	3829.57	1914.8	3832.13	1914.8	3832.95	1914.79
3839.49	1914.77	3845.75	1914.76	3853.1	1914.73	3858.35	1914.69	3863.76	1914.65
3872.63	1914.63	3877.62	1914.57	3879.63	1914.56	3881.79	1914.54	3890.45	1914.48
3892.88	1914.47	3895.25	1914.47	3895.67	1914.46	3896.89	1914.46	3905.53	1914.42
3906.34	1914.41	3910.33	1914.4	3911.4	1914.39	3925.81	1914.46	3947.37	1914.58
3948.62	1914.61	3954.14	1914.61	3955.52	1914.64	3958.62	1914.64	3961.1	1914.69
3962.92	1914.72	3964.64	1914.73	3965	1914.74	3965.79	1914.74	3966.86	1914.76
3967.93	1914.77	3970.12	1914.78	3973.71	1914.78	3974.19	1914.77	3978.5	1914.73
3985.86	1914.61	3986.74	1914.6	4006.27	1914.15	4006.98	1914.13	4012.51	1914
4024.05	1913.91	4029.62	1913.87	4065.22	1913.58	4075.79	1913.51	4117.29	1913.28
4133.46	1913.2	4133.61	1913.2	4139.82	1913.12	4149.76	1913	4172.37	1913
4178.9	1912.99	4187.81	1912.99	4189.7	1913	4273.9	1913	4297.69	1913.29
4299.77	1913.29	4310.88	1913.43	4344.15	1913.87	4346.65	1913.88	4348.7	1913.88
4350.98	1914	4355.15	1914	4356.08	1914.01	4356.86	1914.01	4357.1	1914.02
4358.04	1914.02	4360.09	1914.15	4363.82	1914.34	4365.08	1914.38	4367.85	1914.42
4369.48	1914.46	4372.47	1914.55	4382.93	1915	4393.7	1915	4398.85	1914.85
4398.95	1914.86	4403.32	1914.95	4410.89	1914.91	4417.04	1914.88	4421.71	1914.87
4425.91	1914.9	4437.76	1915	4452.49	1915	4476.38	1915.01	4485.31	1915.01
4504.9	1915	4548.2	1915	4563.51	1915.22	4564.21	1915.22	4566	1915.25
4569.33	1915.28	4629.82	1916	4645.71	1916	4645.88	1915.99	4659.05	1915.62
4667.81	1915.6	4668.44	1915.57	4672	1915.56	4673.22	1915.52	4673.56	1915.52
4677.64	1915.41	4678.61	1915.4	4679.51	1915.38	4685.01	1915.35	4688.84	1915.22
4690.5	1915.17	4691.94	1915.14	4693	1915.13	4694.8	1915.1	4695.91	1915.1
4704.08	1915.03	4704.11	1915.04	4705.71	1915.04	4707.83	1915.06	4709.26	1915.1
4710.21	1915.12	4710.34	1915.13	4712.55	1915.2	4715.05	1915.29	4718.39	1915.43
4725.12	1915.49	4725.84	1915.52	4727.33	1915.55	4727.85	1915.57	4732.89	1915.53
4733.46	1915.54	4740.3	1915.57	4748.32	1915.57	4756.5	1915.36	4757.09	1915.35
4758.55	1915.31	4760.24	1915.25	4760.53	1915.25	4767.19	1915	4934.8	1915
4940.75	1914.8	4949.5	1915	4954.9	1915	4955.02	1915.01	4957.64	1915.33
4959.46	1915.43	4960.82	1915.5	4960.94	1915.5	4961.42	1915.56	4963.7	1916
4967.15	1917	4969.91	1917.87	4970.48	1918.08	4972.85	1919	4974.18	1919.49
4975.6	1920	4976.68	1920.56	4977.72	1921	4977.8	1921.11	4978.31	1922
4978.45	1922.23	4979.02	1923.27	4979.41	1924	4980.85	1926.63	4981.42	1927.7

4981.59	1928	4981.98	1928.73	4982.54	1929.75	4983.24	1931	4985.25	1931.21
4990.95	1932	4996.87	1932.36	4999.05	1932.51	4999.71	1932.55	5001.27	1932.63
5003.84	1932.75	5004.65	1932.78	5009.93	1932.96	5010.79	1933	5011.39	1933.02
5016.81	1933.27	5030.76	1934	5035.13	1934.14	5036.51	1934.18	5045.54	1934.34
5052.39	1934.37	5058.16	1934.88	5058.22	1934.88	5059.5	1935	5071.76	1935.85
5074.8	1936	5086.28	1936.3	5086.46	1936.3	5092.08	1936.42	5106.07	1936.75
5106.71	1936.77	5108.03	1936.8	5112.11	1936.9	5115.9	1937	5119.5	1937
5128.86	1936.98	5133.93	1936.98	5144.04	1936.96	5146.56	1936.96	5151.51	1936.95
5159.74	1936.95	5165.06	1936.96	5173.48	1936.96	5179.99	1936.95	5201.68	1936.62
5208.92	1936.42	5210.14	1936.41	5211.46	1936.38	5214.4	1936.33	5227.71	1936
5234.33	1935.81	5235.44	1935.78	5237.07	1935.73	5238.24	1935.69	5247.57	1935.43

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	5247.57	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	5247.57	281.06	281.06	281.06	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1916.52	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.15	Wt. n-Val.		0.040	
W.S. Elev (ft)	1916.37	Reach Len. (ft)	281.06	281.06	281.06
Crit W.S. (ft)		Flow Area (sq ft)		7264.32	
E.G. Slope (ft/ft)	0.002707	Area (sq ft)		7264.32	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3602.42	Top Width (ft)		3602.42	
Vel Total (ft/s)	3.08	Avg. Vel. (ft/s)		3.08	
Max Chl Dpth (ft)	4.37	Hydr. Depth (ft)		2.02	
Conv. Total (cfs)	430551.3	Conv. (cfs)		430551.3	
Length Wtd. (ft)	281.06	Wetted Per. (ft)		3604.57	
Min Ch El (ft)	1912.00	Shear (lb/sq ft)		0.34	
Alpha	1.00	Stream Power (lb/ft s)	5247.57	0.00	0.00
Frctn Loss (ft)	0.80	Cum Volume (acre-ft)		871.07	
C & E Loss (ft)	0.00	Cum SA (acres)		391.61	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -14900.4

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1919.12	54.32	1919.03	56.73	1919.03	101.11	1918.99	104.76	1918.99
108.71	1918.98	112.86	1918.98	122.99	1918.97	127.97	1918.97	373.04	1918.78
377.12	1918.77	388.68	1918.76	395.65	1918.76	414.25	1918.74	418.91	1918.74
432.94	1918.73	438.24	1918.73	464.65	1918.71	473.27	1918.7	487.69	1918.69
498.02	1918.68	504.23	1918.68	513.53	1918.67	515.26	1918.67	518.34	1918.66
525.97	1918.66	534.82	1918.65	536.48	1918.64	547.52	1918.63	580.99	1918.59
582.88	1918.59	593.55	1918.58	600.55	1918.58	609.45	1918.57	615.39	1918.56
632.79	1918.54	638.81	1918.54	642.38	1918.53	645.81	1918.53	678.3	1918.5
721.07	1918.46	743.57	1918.43	776.17	1918.4	781.22	1918.4	868.85	1918.28
874.03	1918.28	894.95	1918.25	899.76	1918.25	901.62	1918.24	906.12	1918.24
938.57	1918.2	942.25	1918.19	946.31	1918.19	975.59	1918.15	983.45	1918.14
992.59	1918.13	1015.95	1918.1	1017.23	1918.1	1019.3	1918.09	1022.87	1918.09
1027.34	1916.09	1028.33	1915.76	1028.9	1915.51	1030.35	1915.11	1030.95	1914.87
1034.72	1914	1075.06	1914	1116.53	1913.51	1133.06	1913.32	1135.02	1913.32
1135.35	1913.31	1142.43	1913.31	1154.55	1913.29	1162.82	1913.28	1165.54	1913.28
1170.85	1913.31	1174.37	1913.32	1175	1913.33	1176.69	1913.33	1190.38	1913.25
1198.59	1913.2	1218.19	1913.26	1253.56	1913.36	1254.22	1913.36	1257.42	1913.38
1326.02	1913.49	1378.28	1913.53	1385.83	1913.45	1394.53	1913.35	1400.73	1913.24
1408.78	1913.09	1413.18	1913	1432.92	1912.99	1444.8	1912.99	1478.4	1912.98
1497.21	1912.98	1509.68	1912.99	1545.27	1912.99	1549	1913	1563.08	1912.98
1565.81	1912.98	1567.6	1913	1624.75	1913	1629.86	1912.91	1630.75	1912.9
1633.71	1912.9	1634.72	1912.89	1647.32	1912.89	1648.7	1912.87	1651.54	1912.86
1653.91	1912.82	1661.15	1912.81	1671.88	1912.8	1675.44	1912.69	1675.93	1912.69
1676.79	1912.66	1677.88	1912.64	1700	1912	1883.46	1912	1918.04	1912.67
1930.89	1913	1986.94	1913	2020.9	1912.99	2070	1912.99	2070.1	1913
2093.35	1913	2107.39	1912.92	2153.61	1913	2405.9	1913	2409.13	1912.99
2410.63	1912.99	2426.73	1912.61	2439.03	1912.35	2454.54	1912	2546.35	1912
2553.82	1912.34	2567.72	1913	2573.39	1913.53	2578.46	1914	2593.44	1914.98
2593.7	1915	2623.45	1915	2626.79	1914.91	2629.92	1914.89	2639.23	1914.72
2648.39	1914.62	2663.14	1914.39	2680.26	1914.32	2692.54	1914.28	2696.46	1914.18
2702.46	1914	2702.97	1914	2704.99	1913.95	2708.31	1913.89	2721.43	1913.86
2728.51	1913.85	2728.61	1913.86	2730.86	1913.84	2744.49	1913.85	2759.13	1914
2759.9	1914.01	2784.93	1914.58	2786.96	1914.62	2792.46	1914.74	2811.35	1915
2830.13	1915	2844.11	1915.13	2846.7	1915.14	2846.93	1915.15	2849.74	1915.16
2862.13	1915.26	2888.34	1915.47	2889.89	1915.49	2900.5	1915.57	2907.57	1915.63
2911.4	1915.67	2913.26	1915.68	2922.61	1915.76	2928.2	1915.81	2936.72	1915.78
2949.48	1915.72	2950.18	1915.73	2951.06	1915.7	2954.02	1915.75	2955.51	1915.7
2962.75	1915.8	2962.97	1915.79	2967.23	1915.83	2968.92	1915.83	2969.84	1915.84

2970.2	1915.83	2972.64	1915.82	2978.95	1915.68	2987.72	1915.54	2993.58	1915.45
2994.94	1915.45	2995.07	1915.44	2997.25	1915.43	2999.35	1915.41	3000	1915.41
3001.16	1915.46	3018.26	1915.83	3018.6	1915.83	3030.29	1915.91	3032.03	1915.91
3032.86	1915.92	3039.5	1915.88	3044.47	1915.82	3046.01	1915.85	3049.02	1915.85
3054.45	1915.77	3055.36	1915.76	3056.54	1915.72	3061.03	1915.64	3063.85	1915.58
3071.68	1915.4	3072.38	1915.38	3082.85	1915.05	3087.59	1915	3112.84	1915
3155.39	1915.91	3159.11	1916	3230.24	1916	3284.72	1915.5	3316.5	1915.21
3318.77	1915.19	3319.62	1915.19	3331.63	1915	3354.41	1915	3356.26	1915.55
3358.11	1916	3359.38	1916.3	3360.28	1916.49	3361.6	1916.74	3362.48	1916.88
3364.11	1917.1	3365.02	1917.19	3366.34	1917.24	3367.79	1917.24	3368.77	1917.19
3374.99	1916.81	3375.88	1916.75	3377.86	1916.7	3380.35	1916.59	3385.14	1916.58
3388.13	1916.57	3389.13	1916.55	3389.89	1916.48	3390.38	1916.39	3391.5	1916.12
3392.29	1915.96	3394.24	1915.73	3395.52	1915.64	3396.29	1915.65	3396.98	1915.69
3398.78	1915.98	3398.97	1916	3399.97	1916	3401.19	1915.81	3402.44	1915.58
3403.79	1915.43	3404.62	1915.39	3405.01	1915.35	3407.19	1915	3412.97	1914.09
3413.6	1914	3423.36	1913.94	3424.33	1913.93	3426.15	1913.93	3430.27	1913.95
3435.81	1914	3439.76	1914.29	3448.73	1915	3458.6	1915.94	3459.27	1916
3460.05	1916.1	3467.91	1917	3469.4	1917.56	3470.62	1918	3472.68	1918.65
3474.1	1919	3474.81	1919.14	3476.15	1919.3	3477.12	1919.37	3477.22	1919.4
3477.7	1919.36	3477.85	1919.38	3480.04	1919.09	3481.83	1918.94	3482.67	1918.89
3483.22	1918.8	3484	1918.61	3486.11	1918	3488.41	1917.85	3488.53	1917.86
3490.68	1917.81	3495.95	1917.65	3511.51	1917.02	3512.65	1917	3517.9	1916.54
3523.63	1916	3528.87	1915.68	3533.04	1915.36	3536.75	1915.07	3539.9	1914.86
3543.89	1914.62	3552.39	1914	3585.6	1914	3585.74	1914.02	3593.34	1915
3596.68	1915.41	3597.69	1915.51	3603.35	1916	3620.72	1916	3622.24	1915.71
3623.61	1915.43	3624.96	1915	3631.3	1914.36	3633.29	1914.24	3634.37	1914.19
3639.29	1914	3650.13	1913.48	3656.49	1913.1	3657.31	1913.06	3658.03	1913
3729.03	1913	3731.03	1913.06	3735.63	1913.19	3737.2	1913.22	3748.78	1913.51
3749.98	1913.53	3754.05	1913.61	3755.8	1913.63	3756.26	1913.65	3757.38	1913.67
3757.52	1913.66	3760.71	1913.78	3760.95	1913.77	3761.82	1913.8	3763.69	1913.84
3764.95	1913.86	3771.4	1913.88	3777.64	1913.89	3779.07	1913.88	3795.01	1913.8
3808.36	1913.74	3809.86	1913.73	3811.94	1913.73	3812.7	1913.72	3827.47	1913.67
3849.09	1913.59	3861.08	1913.54	3864.92	1913.51	3876.76	1913.46	3891.84	1913.38
3917.08	1913.26	3930.42	1913.2	3931.16	1913.2	3949.76	1913.09	3963.82	1913
3965.02	1913	3981.24	1912.87	3987.04	1912.83	3992.29	1912.79	3993.28	1912.78
4040.15	1912.54	4065.23	1912.42	4068.9	1912.42	4072.68	1912.43	4076.16	1912.4
4080.09	1912.36	4080.67	1912.36	4088.57	1912.28	4088.81	1912.28	4100.3	1912.18
4109.65	1912.07	4116.29	1912	4156.47	1912	4182.72	1912.86	4187.49	1913
4194.68	1913.24	4218.58	1914	4256.26	1914	4261.18	1913.99	4273.35	1913.85
4292.29	1913.64	4320.45	1913.68	4356.5	1913.83	4357.86	1913.84	4366.74	1913.99
4370.72	1914	4371.69	1914.06	4382.57	1914.58	4391.21	1915	4392.66	1915
4551.74	1915.99	4553.63	1916	4594.52	1916	4596.66	1915.93	4601.73	1915.75
4616.67	1915.24	4618.63	1915.16	4621.03	1915.07	4622.46	1915	4634.66	1914.6
4638.39	1914.52	4638.93	1914.52	4642.43	1914.46	4645.27	1914.42	4646.58	1914.42
4647.79	1914.4	4649.08	1914.41	4649.55	1914.4	4650.66	1914.41	4664.25	1914.3
4684.64	1914.11	4690.18	1914	4704.84	1914	4707.32	1913.99	4742.87	1913.9
4772.51	1913.82	4772.98	1913.82	4775.85	1913.77	4782.13	1913.65	4782.62	1913.65
4786.33	1913.57	4800.65	1913.32	4807.6	1913.22	4816.33	1913.02	4818.35	1913
4825.98	1913	4855.02	1913.9	4857.73	1914	4861.31	1914.34	4866.24	1914.84
4868.13	1915	4869.27	1915.16	4874.97	1916	4882.98	1916.85	4884.35	1917
4887.58	1917.29	4895.39	1918	4901.42	1918.54	4905.71	1918.94	4906.52	1919.03
4913.45	1920	4916.96	1920.44	4925.77	1921	4928.35	1921.26	4934.74	1922
4935.4	1922	4940.44	1923	4946.36	1924	4952.2	1925	4955.04	1925.74
4955.85	1926	4958.74	1927	4965.57	1927.9	4965.96	1928	4967.84	1928.23
4976.14	1929.31	4981.49	1930	4987.63	1930.52	4991.62	1931	5001.94	1931.27
5010.74	1931.48	5024.37	1931.84	5030.35	1932	5037.39	1932.87	5038.56	1933
5039.53	1933.02	5042.42	1933.02	5048.2	1933.01	5048.97	1933.04	5050.94	1933.04
5052.2	1933.05	5053.87	1933.1	5063.5	1933.24	5070.79	1933.32	5075.02	1933.23
5077.37	1933.22	5085.9	1933.02	5087.4	1933	5148.98	1933	5159.92	1933.01
5176.99	1933.01	5182.11	1933.02	5214.97	1933.07	5219.42	1933	5245.24	1933

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	5245.24	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	5245.24	208.31	208.31	208.31	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1915.72	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.17	Wt. n-Val.		0.040	
W.S. Elev (ft)	1915.55	Reach Len. (ft)	208.31	208.31	208.31
Crit W.S. (ft)		Flow Area (sq ft)		6793.47	
E.G. Slope (ft/ft)	0.002984	Area (sq ft)		6793.47	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3278.58	Top Width (ft)		3278.58	
Vel Total (ft/s)	3.30	Avg. Vel. (ft/s)		3.30	
Max Chl Dpth (ft)	3.55	Hydr. Depth (ft)		2.07	
Conv. Total (cfs)	410073.2	Conv. (cfs)		410073.2	
Length Wtd. (ft)	208.31	Wetted Per. (ft)		3279.75	
Min Ch El (ft)	1912.00	Shear (lb/sq ft)		0.39	
Alpha	1.00	Stream Power (lb/ft s)	5245.24	0.00	0.00
Frctn Loss (ft)	0.63	Cum Volume (acre-ft)		825.72	
C & E Loss (ft)	0.00	Cum SA (acres)		369.41	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -15108.7

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1919.03	16.65	1919.01	20.65	1919.01	22.1	1919	28.74	1919
34.94	1918.99	39.4	1918.99	43.41	1918.98	47.08	1918.98	51	1918.97
59.11	1918.97	62.22	1918.96	66.24	1918.96	74.06	1918.95	81.97	1918.95
86.31	1918.94	94.83	1918.94	98.81	1918.93	103.34	1918.93	108.53	1918.92
115.46	1918.92	126.64	1918.91	141.68	1918.89	154.72	1918.88	160.77	1918.88
166.63	1918.87	175.21	1918.86	187.93	1918.84	197.19	1918.83	198.5	1918.82
201.96	1918.82	216.03	1918.79	250.07	1918.74	252.6	1918.73	277.34	1918.69
477.76	1918.36	481.9	1918.35	557.66	1918.3	563.83	1918.3	570.52	1918.29
577.53	1918.29	594.59	1918.27	602.95	1918.27	706.99	1918.19	712.61	1918.19
729.26	1918.18	734.56	1918.17	738.05	1918.17	763.48	1918.15	769.84	1918.15
788.96	1918.14	796.16	1918.13	831.96	1918.11	843.6	1918.1	863.03	1918.09
878.16	1918.08	879.54	1918.07	885.26	1918.07	897.71	1918.06	905.93	1918.06
908.48	1918.05	914.35	1918.05	925.74	1918.03	928.37	1918.03	943.08	1918.01
949.77	1918.01	964.71	1918	972.76	1917.99	984.31	1917.98	992.01	1917.97
1008.61	1917.96	1018.28	1913.93	1020.79	1913	1039.59	1913	1059.49	1913.02
1063.51	1913.02	1071.65	1913.03	1077.38	1913.03	1079.39	1913.04	1085.51	1913.04
1090.54	1913.05	1101.6	1913.05	1109.02	1913.04	1115.74	1913.04	1118.62	1913.03
1126.36	1913.03	1127.54	1913.02	1141.25	1913.02	1143.02	1913.03	1176.96	1913.24
1188.63	1913.26	1191.43	1913.27	1202.61	1913.35	1203.39	1913.36	1244.51	1913.1
1251.72	1913.04	1256.21	1913.01	1308.54	1913.01	1329.74	1913	1380.01	1913
1398.67	1912.99	1441.34	1912.99	1481.92	1912.47	1504.49	1912.19	1509.14	1912.16
1513.89	1912.16	1527.82	1912.13	1538.47	1912.12	1540.46	1912.12	1549.83	1912.21
1618.5	1912.9	1625.93	1913	1629.17	1913.01	1638.91	1913.01	1640.27	1913
1645.5	1913	1652.29	1912.85	1668.07	1912.51	1668.88	1912.5	1684.37	1912
1691.84	1912	1719.9	1912.87	1723.88	1913	1763.59	1913	1766.36	1912.84
1774.46	1912.14	1776.19	1912	1839	1912	1843.95	1912.45	1849.64	1913
1894.27	1913	1897.61	1912.83	1897.85	1912.81	1902.17	1912.54	1909.53	1912.1
1911.35	1912	1924.88	1911.99	1946.94	1911.56	1958.88	1911.35	1965.77	1911.36
1968.88	1911.37	1970.19	1911.38	1978.67	1911.49	1995.01	1911.72	1999.76	1911.83
2003.45	1911.89	2009.05	1912	2011.14	1912.58	2012.7	1913	2015.51	1913.72
2016.45	1913.91	2016.79	1914	2018.18	1914.63	2018.6	1914.62	2019.38	1914.73
2020.2	1914.7	2023.07	1914.3	2024.99	1914	2031.5	1913.06	2031.95	1913
2038.26	1912.05	2038.39	1912	2069.22	1912	2074.65	1912.15	2074.67	1912.14
2105.25	1912.32	2126.95	1912.39	2127.49	1912.39	2147.05	1912.28	2158.4	1912.23
2197.03	1912.3	2198.27	1912.3	2211.28	1912.32	2215.71	1912.32	2219.99	1912.33
2224.91	1912.35	2234.99	1912.37	2251.44	1912.53	2295.98	1913	2401.12	1913
2402.15	1912.98	2410.17	1912.79	2421.75	1912.53	2423.68	1912.49	2440.63	1912.12
2446.56	1912	2544.15	1912	2545.13	1912.06	2558.9	1913	2574.47	1913.78
2582.83	1914.23	2584.32	1914.3	2586.32	1914.38	2594.56	1914.48	2601.91	1914.45
2603.75	1914.41	2612.63	1914.24	2612.91	1914.24	2623.59	1914	2626.35	1914
2650.45	1913.99	2652.29	1913.99	2661.07	1914	2688.5	1914	2695.37	1914.01
2729.37	1914.01	2736.12	1914.02	2745.8	1914.02	2764.93	1914.53	2771.81	1914.63
2772.18	1914.64	2787.72	1914.85	2792.04	1914.91	2794.76	1914.93	2797.7	1914.9
2799.43	1914.84	2800.75	1914.81	2802.87	1914.74	2805.24	1914.68	2807.22	1914.62
2814.61	1914.37	2817.97	1914.28	2821.93	1914.24	2837.22	1914.01	2837.53	1914
2856.62	1914	2859.69	1914.08	2875.73	1914.52	2879.97	1914.71	2884.91	1915
2902.53	1915	2905.74	1915.01	2914.12	1915.01	2939.26	1915	2991.63	1915
2991.72	1915.01	2997.16	1915.2	3008.89	1915.6	3014.28	1915.7	3015.57	1915.72
3019.53	1915.76	3022.32	1915.78	3030.38	1915.99	3030.52	1916	3047.04	1916
3050.73	1915.99	3054.41	1915.99	3066.73	1915.34	3070.38	1915.22	3072.45	1915.16
3076.76	1915	3097.04	1915.9	3098.2	1915.95	3099.75	1915.98	3106.06	1916
3113.17	1916.04	3115.81	1916.01	3120.16	1916.01	3120.72	1916	3125.23	1916
3154.13	1915.48	3163.87	1915.31	3177.08	1915.4	3177.87	1915.4	3184.51	1915.44
3190.37	1915.47	3197.93	1915.49	3201.89	1915.49	3206.22	1915.5	3211.62	1915.47
3216.55	1915.45	3222.9	1915.45	3247.43	1915.43	3273.7	1915.41	3275.31	1915.4
3298.68	1915.22	3325.92	1915	3330.43	1915	3337.4	1914.99	3345.2	1914.99
3350.03	1915	3351.36	1915.65	3352.12	1916	3352.6	1916.25	3354.79	1917.3
3356.18	1918	3356.93	1918.36	3358.19	1919	3360.49	1919.44	3362.6	1919.79
3363.58	1920.03	3366.15	1921	3367.97	1921.62	3368.96	1922	3371.45	1922.49
3372.22	1922.59	3376.08	1923	3387.17	1923	3390.42	1922	3392.51	1921.44
3393.88	1921	3395.08	1920.63	3396.78	1920	3399.35	1919	3400.11	1918.66
3400.77	1918.42	3404.52	1917.02	3405.01	1917.01	3408.62	1917.08	3409.3	1917.05
3410.02	1917.1	3415.29	1917.24	3416.04	1917.27	3419.05	1917.48	3420.97	1917.59
3422.4	1917.63	3422.89	1917.61	3427.06	1917	3432.53	1916	3435.11	1915.54
3436.84	1915.15	3437.75	1914.92	3441.15	1914	3444.89	1913.21	3445.82	1913
3468.44	1913	3469.79	1913.28	3473.69	1913.28	3476.19	1913.51	3481.85	1914
3482.22	1914.01	3484.01	1914.13	3486.04	1914.24	3488.43	1914.25	3491.81	1914.23
3502.65	1914.2	3503.76	1914.19	3505.83	1914.15	3510.19	1914	3514.37	1913.89
3515.71	1913.91	3517.77	1913.88	3520.82	1913.85	3528.85	1913.82	3529.87	1913.83
3536.27	1913.82	3536.98	1913.84	3539.73	1913.82	3539.84	1913.83	3549.03	1913.68
3591.64	1913	3850.38	1913	3853.78	1912.99	3857.05	1912.99	3867.27	1912.92
3903.16	1912.66	3903.95	1912.66	3912.64	1912.6	3924.78	1912.52	3935.58	1912.43
3936.28	1912.43	3949.01	1912.3	3969.3	1912.08	3969.88	1912.08	3976.77	1912
4008.02	1911.33	4018.51	1911.15	4027.6	1911	4073.63	1911	4078.62	1911.29
4090.35	1912	4098.69	1912.49	4100.53	1912.55	4111.94	1912.99	4114.79	1912.99
4117.35	1913	4219.41	1913	4228.35	1912.81	4241.36	1912.66	4250.16	1912.55
4272.77	1912.01	4274.76	1911.99	4303.52	1911.86	4309.2	1911.88	4333.79	1912

4341.04	1912.57	4342.63	1912.69	4347.28	1913	4404.94	1913	4419.02	1913.44
4427.03	1913.66	4427.96	1913.68	4440.13	1914	4507.77	1914	4533.4	1913.99
4541.69	1913.99	4567.99	1914	4574.14	1914	4574.38	1913.99	4577.74	1913.93
4586.27	1913.7	4591.76	1913.54	4604.59	1913.15	4607.63	1913.06	4610.23	1912.97
4614.95	1912.82	4617.96	1912.74	4624.31	1912.47	4630.19	1912.5	4639.94	1912.46
4651.69	1912.39	4659.99	1912.32	4667.99	1912.22	4672.17	1912.17	4675.08	1912.14
4678.3	1912.12	4679.2	1912.12	4681.05	1912.1	4684.15	1912.09	4698.18	1912.07
4711.51	1912.02	4715.47	1912	4780.99	1912	4793.81	1912.13	4795.61	1912.16
4799.69	1912.25	4808.78	1912.51	4809.44	1912.52	4825.68	1913	4830.02	1913.35
4837.45	1914	4840.64	1914.3	4841.7	1914.41	4844.39	1914.65	4845.6	1914.73
4852.11	1915	4928.79	1915	4934.77	1914.53	4940.83	1914	4944.22	1913.93
4947.5	1914	4950.48	1914.65	4952.18	1915	4954.18	1915.32	4961.35	1916
4965.7	1916.42	4971.85	1917	4975.95	1917.41	4977.05	1917.53	4981.21	1918
4985.18	1918.38	4991.43	1919	5001.1	1920	5005.05	1920.8	5006.24	1921
5009.11	1922	5011.89	1923	5014.58	1924	5017.23	1925	5020.69	1926.23
5025.77	1928	5030.26	1929	5033.94	1929.74	5035.49	1930	5037.85	1930.31
5046.04	1931	5048.13	1931.11	5050.61	1931.25	5058.8	1931.56	5069.91	1931.99
5071.68	1931.99	5073.93	1932	5086.55	1933	5107.63	1933.89	5109.75	1934
5111.56	1934.07	5137.4	1935	5140.99	1935	5158.34	1935.01	5165.2	1935.01
5177.29	1935.02	5180.62	1935.02	5203.55	1935.01	5208.74	1935	5216.13	1935
5247.72	1934.1	5251.39	1934	5257.8	1933.84	5295.98	1933	5310.04	1932.67

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	5310.04	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	5310.04	100.05	100.05	100.05	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1915.08	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.17	Wt. n-Val.		0.040	
W.S. Elev (ft)	1914.91	Reach Len. (ft)	100.05	100.05	100.05
Crit W.S. (ft)		Flow Area (sq ft)		6734.73	
E.G. Slope (ft/ft)	0.003096	Area (sq ft)		6734.73	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3297.35	Top Width (ft)		3297.35	
Vel Total (ft/s)	3.33	Avg. Vel. (ft/s)		3.33	
Max Chl Dpth (ft)	3.91	Hydr. Depth (ft)		2.04	
Conv. Total (cfs)	402581.0	Conv. (cfs)		402581.0	
Length Wtd. (ft)	100.05	Wetted Per. (ft)		3299.31	
Min Ch El (ft)	1911.00	Shear (lb/sq ft)		0.39	
Alpha	1.00	Stream Power (lb/ft s)	5310.04	0.00	0.00
Frctn Loss (ft)	0.36	Cum Volume (acre-ft)		793.37	
C & E Loss (ft)	0.00	Cum SA (acres)		353.69	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -15208.8

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1918.79	10.82	1918.78	17.19	1918.77	22.09	1918.77	24.83	1918.76
68.75	1918.72	95.24	1918.7	98.68	1918.69	105.94	1918.69	111.1	1918.68
116.87	1918.68	122.89	1918.67	125.61	1918.67	136.73	1918.66	142.02	1918.65
149.66	1918.65	149.81	1918.64	155.71	1918.64	163.12	1918.63	168.65	1918.63
171.75	1918.62	176.73	1918.62	183.42	1918.61	186.64	1918.61	195.61	1918.6
199.3	1918.6	204.31	1918.59	209.83	1918.59	213.98	1918.58	216.33	1918.58
225.93	1918.57	231.31	1918.57	261.63	1918.54	279.26	1918.52	286.18	1918.51
295.39	1918.51	296.26	1918.5	344.95	1918.46	348	1918.46	348.58	1918.45
358.34	1918.45	359.61	1918.44	362.67	1918.44	371.73	1918.43	378.23	1918.43
384.08	1918.42	389.44	1918.42	403.58	1918.4	411.91	1918.4	417.28	1918.39
428.62	1918.38	437.2	1918.38	437.5	1918.37	449.02	1918.37	455.58	1918.36
458.62	1918.36	464.36	1918.35	470.87	1918.35	478.35	1918.34	480.86	1918.34
488.3	1918.33	504.31	1918.32	525.8	1918.3	544.39	1918.28	552.99	1918.28
561.31	1918.27	573.48	1918.26	582.67	1918.24	591.46	1918.23	604.1	1918.21
606.38	1918.2	611.24	1918.2	631.03	1918.16	678.63	1918.08	682.17	1918.08
716.52	1918.02	795.44	1917.89	800.59	1917.89	894.24	1917.82	901.84	1917.82
910.05	1917.81	918.64	1917.81	939.54	1917.79	949.75	1917.79	967.73	1917.78
974.28	1917.77	992.79	1917.76	999.85	1917.76	1003.91	1917.75	1023.39	1917.74
1023.48	1914.62	1026.62	1913	1131.58	1913	1184.81	1913.36	1233.5	1913.68
1233.87	1913.68	1256.59	1913.58	1301.43	1913.37	1307.39	1913.28	1318.55	1913.12
1327.76	1913	1592.75	1913	1593.64	1913.01	1596.01	1913.01	1624.47	1913.49
1626.73	1913.52	1658.59	1913.99	1660.11	1914	1672.22	1914.57	1674.52	1914.63
1676.21	1914.66	1678.44	1914.67	1680.99	1914.66	1682.41	1914.62	1684.35	1914.54
1688.24	1914.21	1689	1914.19	1690.51	1914	1697.48	1912.99	1708.99	1912
1710.9	1912	1729.5	1912.66	1731.2	1912.71	1742.05	1913	1800.23	1913
1800.32	1912.99	1825.42	1912.41	1834.21	1912.2	1839.45	1912	1855.53	1911.59
1865.36	1911.36	1883.55	1911	1891.44	1911	1904.89	1911.34	1910.87	1911.52
1924.45	1912	1930.03	1912.41	1931.13	1912.48	1938.22	1912.89	1940.22	1913

1956.1	1913	1959.66	1912.96	1960.61	1912.92	1966.22	1912.8	1974.46	1912.39
1975.45	1912.35	1983.19	1912	1983.39	1912	1991.8	1911.84	1998.74	1911.72
1999.57	1911.71	2009.7	1911.55	2016.06	1911.52	2023.31	1911.49	2049.26	1911.01
2050.35	1911.01	2089.14	1911.83	2089.99	1911.85	2093.7	1912	2099.48	1912.37
2103.66	1912.57	2108.9	1912.77	2115.83	1913	2141.4	1913	2169.45	1912
2193.56	1912	2205.04	1911.99	2247.3	1911.99	2262.04	1911.98	2270.84	1911.98
2291.96	1912	2294.23	1912	2295.51	1912.04	2302.61	1912.2	2313.58	1912.37
2319.28	1912.35	2321.59	1912.33	2327.07	1912.34	2357.92	1912.91	2362.69	1913
2466.82	1913	2480.77	1912.23	2485.16	1912	2493.27	1911.74	2529.24	1911.49
2547.31	1911.37	2549.9	1911.39	2557.58	1911.44	2582.99	1911.64	2604.07	1911.82
2622.54	1911.99	2624.34	1912	2648.99	1912.46	2651.38	1912.5	2656.7	1912.6
2675.36	1913	2685.32	1913	2686.45	1913.03	2694.18	1913.1	2700.92	1913.15
2702.12	1913.15	2713.35	1913.18	2714.63	1913.17	2720.05	1913.21	2722.81	1913.2
2725.45	1913.22	2727.77	1913.21	2729.57	1913.23	2732.64	1913.19	2739	1913.2
2745.71	1913.23	2787.7	1913.52	2806.96	1913.65	2811.44	1913.67	2823.39	1913.69
2829.09	1913.71	2833.5	1913.73	2837.39	1913.73	2838.43	1913.74	2840.94	1913.74
2841.14	1913.73	2870.13	1913.73	2902.29	1913.72	2933.15	1913.7	2938.06	1913.62
2947.84	1913.41	2948.04	1913.4	2950.89	1913.45	2952.95	1913.45	2954.07	1913.42
2955.78	1913.4	2961.17	1913.4	2964.55	1913.35	2967.05	1913.35	2970.26	1913.33
2977.96	1913.24	2988.37	1913.1	2990.22	1913.07	2993.49	1913	2995.35	1913
2996.18	1913.03	3006.21	1913.31	3023.28	1913.81	3024.92	1913.86	3031.43	1914
3041.76	1914.34	3056.75	1914.91	3059.18	1915	3065.87	1915.35	3067.73	1915.47
3070.42	1915.63	3076.25	1916	3092.13	1916.83	3093.7	1916.91	3095.77	1917
3121.88	1917	3125.57	1916.83	3128.86	1916.75	3132.12	1916.63	3136.99	1916.44
3145.22	1916.13	3148.15	1916	3157.21	1915.43	3164.13	1915	3174.26	1915
3203.03	1914.99	3252.62	1914.99	3264.47	1915	3337.32	1915	3341.18	1914.95
3347.49	1914.85	3397.08	1914	3419.3	1914	3421.01	1913.91	3428.02	1913.59
3431.42	1913.44	3437.28	1913.36	3442.59	1913.22	3444.29	1913.18	3446.99	1913.16
3448.03	1913.12	3449.7	1913.14	3456.01	1913.04	3457.79	1913.05	3464.19	1913
3736.42	1913	3751.81	1912.97	3799.85	1912.88	3804.27	1912.91	3804.56	1912.9
3807.82	1912.92	3823.53	1912.92	3833.57	1912.91	3843.64	1912.91	3858.18	1912.98
3869.85	1912.96	3896.01	1912.93	3900.26	1912.94	3942.18	1913	3942.7	1913
3948.22	1912	3958.04	1911.96	3969.67	1911.76	3999.16	1911.26	4009.1	1911
4054.14	1911	4057.94	1911.11	4080.56	1911.72	4090.59	1912	4093.28	1912
4094.51	1912.01	4097.73	1912.01	4110.85	1912.05	4112.99	1912.05	4119.6	1912.12
4147.73	1912.3	4152.98	1912.34	4155.21	1912.34	4157.86	1912.36	4159.37	1912.36
4165.17	1912.41	4165.94	1912.41	4170.79	1912.45	4181.25	1912.55	4185.67	1912.59
4191.65	1912.65	4196.18	1912.7	4199.81	1912.73	4201.51	1912.73	4205.03	1912.77
4213.26	1912.8	4219.79	1912.81	4222.78	1912.81	4223.42	1912.8	4225.87	1912.8
4231.91	1912.7	4260.66	1912.03	4261.63	1912	4262.94	1911.99	4268.2	1911.99
4276.25	1911.98	4298.46	1911.94	4302.14	1911.93	4306.11	1911.93	4307.16	1911.94
4312.36	1911.95	4315.99	1911.95	4317.81	1911.96	4328.18	1911.98	4331.4	1911.98
4334.06	1911.99	4340.25	1911.95	4342.67	1912	4343.17	1912	4352.53	1912.28
4352.8	1912.28	4356.08	1912.39	4364.1	1912.68	4364.82	1912.72	4369.37	1912.91
4371.73	1913	4469.93	1913	4476.52	1912.97	4479.04	1912.98	4481.52	1913
4514.32	1913	4521.57	1912.99	4525.44	1912.99	4547.59	1912.98	4575.65	1913
4588.24	1913	4591.54	1912.24	4592.87	1912	4594.87	1911	4604.15	1911
4610.25	1910.99	4640.32	1910.98	4651.48	1910.98	4663.96	1910.99	4688.35	1911
4695.27	1911	4705.59	1911.56	4708.48	1911.75	4713.13	1912	4714.44	1912.02
4721.35	1912.44	4722.92	1912.52	4730.52	1913	4732.46	1913.11	4748.96	1914
4753.8	1914.32	4757.61	1914.42	4764.8	1914.78	4772.18	1915	4777.35	1915.28
4777.61	1915.28	4781.16	1915.4	4784.25	1915.45	4789.02	1915.49	4790.4	1915.49
4791.1	1915.51	4795.32	1915.45	4797.78	1915.46	4799.57	1915.49	4805.44	1915.57
4809.58	1915.67	4811.96	1915.63	4815.34	1915.52	4816.09	1915.55	4818.6	1915.33
4819.18	1915.32	4823.27	1915	4828.29	1914.92	4832.63	1914.84	4855.76	1914.43
4860.76	1914.35	4864.27	1914.3	4868.3	1914.22	4877.67	1914	4896.75	1913.96
4909.52	1913.95	4920.68	1913.97	4939.35	1914	4953.4	1914.39	4959.08	1914.56
4974	1915	5017.17	1915	5032.56	1914.28	5038.59	1914	5044.17	1913.99
5048.21	1914	5055.16	1915	5057.87	1915.4	5061.7	1916	5068.23	1917
5072.53	1918	5074.04	1919	5075.52	1920	5076.96	1921	5078.44	1922
5079.53	1922.76	5081.38	1924	5083.74	1925.63	5085.91	1927	5087.68	1928.14
5088.06	1928.21	5089.35	1928.65	5093.27	1928.86	5094.3	1928.99	5094.94	1929
5097	1929.09	5098.82	1929.19	5099.99	1929.27	5102.11	1929.35	5107.31	1929.66
5111.31	1929.84	5113.8	1929.87	5118.99	1930	5128.35	1930.22	5131.95	1930.33
5136.03	1930.41	5150.18	1931	5155.21	1931.25	5160.69	1931.55	5169.07	1932
5172.44	1932.14	5178.41	1932.37	5182.1	1932.5	5189.49	1932.72	5190.2	1932.73
5199.36	1932.93	5203.38	1932.91	5208.18	1932.96	5212.82	1932.98	5213.98	1933
5229.45	1933.57	5240.86	1934	5245.47	1934.27	5258.13	1935	5274.47	1935.85
5277.49	1936	5328.78	1936	5336.06	1935.83	5345.9	1935.63	5347.66	1935.59
5362.28	1935.28	5374.61	1935	5387.67	1934.62	5408.44	1934	5409.62	1933.96

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	5409.62	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	5409.62	134.51	134.51	134.51	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1914.72	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.20	Wt. n-Val.		0.040	
W.S. Elev (ft)	1914.52	Reach Len. (ft)	134.51	134.51	134.51
Crit W.S. (ft)		Flow Area (sq ft)		6270.82	
E.G. Slope (ft/ft)	0.004307	Area (sq ft)		6270.82	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3533.97	Top Width (ft)		3533.97	
Vel Total (ft/s)	3.57	Avg. Vel. (ft/s)		3.57	

Max Chl Dpth (ft)	3.54	Hydr. Depth (ft)		1.77	
Conv. Total (cfs)	341334.8	Conv. (cfs)		341334.8	
Length Wtd. (ft)	134.51	Wetted Per. (ft)		3535.44	
Min Ch El (ft)	1910.98	Shear (lb/sq ft)		0.48	
Alpha	1.00	Stream Power (lb/ft s)	5409.62	0.00	0.00
Frctn Loss (ft)	0.56	Cum Volume (acre-ft)		778.44	
C & E Loss (ft)	0.00	Cum SA (acres)		345.84	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -15343.3

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1918.48	108.66	1918.39	117.79	1918.39	120.87	1918.38	125.66	1918.38
160.08	1918.34	165.51	1918.34	171.47	1918.33	173.33	1918.33	195.62	1918.31
209.58	1918.3	218.92	1918.29	224.37	1918.28	231.2	1918.28	246.24	1918.26
255.31	1918.25	262.28	1918.25	266.18	1918.24	328.71	1918.18	366.42	1918.15
371.33	1918.14	376.43	1918.14	379.35	1918.13	389.19	1918.13	392.81	1918.12
397.23	1918.12	405.79	1918.11	409.68	1918.11	433.04	1918.08	442.2	1918.07
448.49	1918.07	452.54	1918.06	463.1	1918.05	470.97	1918.05	475.39	1918.04
482.48	1918.04	492.41	1918.03	496.6	1918.02	509.37	1918.01	512.19	1918.01
514.63	1918	521.77	1918	526.05	1917.99	529.64	1917.99	535.55	1917.98
538.9	1917.98	552.57	1917.97	555.64	1917.97	558.06	1917.96	560.23	1917.96
603.44	1917.92	606.23	1917.92	615.1	1917.91	628.56	1917.9	638.42	1917.89
640.15	1917.88	645.86	1917.88	652.79	1917.87	722.19	1917.81	723.12	1917.8
730.54	1917.8	733.58	1917.79	743.09	1917.79	747.44	1917.78	760.35	1917.77
777.97	1917.75	780.85	1917.75	785.6	1917.74	795.69	1917.74	805.76	1917.73
809.11	1917.72	817.65	1917.72	825.3	1917.71	841.47	1917.7	853.71	1917.69
857.78	1917.68	866.74	1917.68	870.56	1917.67	879.92	1917.67	880.35	1917.66
884.26	1917.66	892.44	1917.65	901.73	1917.65	912.39	1917.64	915.98	1917.64
947.01	1917.61	949.43	1917.61	965.02	1917.59	980.08	1917.58	1006.59	1917.56
1018.86	1917.55	1028.66	1917.54	1114.58	1914.94	1127.17	1914.56	1170.53	1913.24
1173.61	1913.15	1178.23	1913	1254.76	1913	1264.71	1912.92	1265.24	1912.92
1275.42	1912.86	1284.46	1912.81	1290.28	1912.81	1307.13	1912.75	1309.48	1912.75
1329.68	1912.99	1330.85	1913	1363.09	1913	1437.36	1912.08	1441.89	1912
1442.6	1912	1446.48	1911.92	1460.54	1911.73	1462.11	1911.72	1472.22	1911.58
1472.78	1911.58	1479.66	1911.49	1480.51	1911.49	1485.58	1911.44	1487.88	1911.43
1491.98	1911.4	1493.61	1911.42	1516.77	1911.44	1520.77	1911.46	1521.76	1911.47
1540.59	1911.58	1541.48	1911.59	1548.4	1911.64	1569.37	1911.82	1569.74	1911.82
1589.24	1912	1713.02	1912	1718.25	1911.82	1725.77	1911.73	1736.49	1911.36
1763.51	1911.5	1765.76	1911.51	1767.69	1911.53	1777.58	1911.61	1789.48	1911.67
1793.97	1911.71	1829.9	1912	1906.34	1912	1923.36	1911.67	1926.92	1911.57
1935.21	1911.4	1948.45	1911	1955.42	1910.13	1956.58	1910	1962.09	1910
1963.17	1910.68	1963.71	1911	1966.47	1912.42	1967.65	1913	1968.36	1913
1970.37	1913.14	1977.92	1913.41	1978.95	1913.42	1981.49	1913.42	1982.39	1913.41
1983.8	1913.37	1985.49	1913.3	1988.68	1913	1991.6	1912.36	1992.91	1912.17
1994.59	1912	1995.91	1911.84	1997.54	1911.69	1999.89	1911.55	2001.03	1911.42
2002.85	1911.16	2003.82	1911	2130.57	1911	2161.99	1910.99	2169.07	1910.99
2204.16	1911	2266.14	1911	2271.14	1910.97	2276.71	1910.97	2286.85	1911
2467.73	1911	2471.45	1911.02	2472.99	1911.02	2479.98	1911	2490.65	1911
2497.99	1911.01	2499.89	1911.03	2519.71	1911.12	2521.99	1911.17	2536.46	1911.26
2539	1911.27	2540	1911.3	2541.12	1911.31	2544.19	1911.38	2549.42	1911.51
2550.19	1911.52	2552.57	1911.58	2554.69	1911.62	2572.03	1912	2573.87	1912.64
2574.79	1913	2576.44	1913.56	2577.97	1914	2580.33	1914.7	2581.19	1915
2582.24	1915.32	2584.34	1916	2586.79	1916.75	2587.58	1917	2589.78	1917
2591.67	1916.27	2592.32	1916.08	2594.17	1915.59	2596.49	1914.99	2598.02	1914.58
2600.11	1914	2602.99	1913	2603.17	1912.93	2604.56	1912	2619.31	1912
2620.13	1912.04	2625.75	1912.28	2629.13	1912.42	2641.92	1913	2817.51	1913
2818.12	1913.01	2840.85	1913.2	2853.5	1913.3	2873.24	1913.47	2892.34	1913.62
2895.94	1913.66	2899.49	1913.68	2905.98	1913.74	2923.92	1913.85	2947.94	1914
2964.57	1914	2965.9	1913.98	2979.71	1913.82	2983.57	1913.82	2985.07	1913.79
2987.41	1913.72	2990.54	1913.66	2990.68	1913.65	2999.62	1913.45	2999.93	1913.44
3003.19	1913.44	3008.43	1913.33	3021.06	1913.4	3040.58	1913.61	3040.87	1913.61
3056.36	1914	3060.61	1914.1	3097.51	1914.99	3097.84	1915	3262.64	1915
3262.79	1914.99	3272.48	1914	3277.55	1913.48	3283.52	1913	3289.78	1912.88
3290.94	1912.89	3300.06	1912.76	3311.45	1912.68	3335.15	1912.51	3335.29	1912.5
3347.25	1912.39	3347.69	1912.38	3357.83	1912.29	3360.15	1912.28	3361.66	1912.26
3371.08	1912.19	3380.49	1912.11	3384.59	1912.08	3394.12	1912	3473.67	1912
3476.14	1912.03	3484.48	1912.11	3484.62	1912.1	3496.83	1912.01	3498.92	1912.02
3503.81	1912.02	3507.62	1912.01	3522.57	1912.01	3527	1912	3574.47	1912
3576.39	1912.01	3600.55	1912.01	3601.34	1912.02	3619.98	1912.02	3636.68	1912.01
3657.45	1912.08	3661.55	1912.04	3667.05	1912	3757.58	1912	3774.62	1912.23
3823.77	1912.94	3828.08	1913	3831.15	1913	3832.28	1912.67	3834.65	1912
3840.88	1911.07	3841.4	1911	3843.91	1911	3885.05	1910.98	3887.83	1910.98
3900.57	1910.99	3929.26	1910.99	3933.38	1911	3933.86	1911.01	4030.5	1912
4048.8	1912	4069.22	1912.01	4082.26	1912.01	4087.56	1912	4101.37	1912
4102.02	1911.99	4117.46	1911.85	4120.25	1911.8	4125.08	1911.75	4129.34	1911.68
4141.46	1911.54	4145.24	1911.5	4149.54	1911.47	4157.41	1911.42	4157.95	1911.41
4168.17	1911.33	4172.07	1911.28	4176.38	1911.23	4191.33	1911.01	4192.15	1911
4218.77	1911	4234.73	1911.35	4236.9	1911.44	4240.13	1911.54	4242.75	1911.61

4245.1	1911.69	4252.09	1912	4254.4	1912.07	4261.2	1912.21	4266.38	1912.29
4267.7	1912.29	4275.64	1912.38	4275.9	1912.37	4278.72	1912.41	4302.31	1912.32
4303.61	1912.33	4356.46	1912.8	4372.01	1912.95	4377.97	1912.96	4388.58	1912.96
4394.73	1912.97	4400.51	1912.97	4423.82	1912.99	4434.93	1912.99	4439.11	1913
4440.92	1912.68	4447.37	1911.76	4448.25	1911.6	4450.69	1911	4460.94	1910.99
4475.28	1910.98	4486.65	1910.98	4492.24	1910.97	4509.25	1910.97	4510.09	1910.96
4521.83	1910.97	4560.52	1910.99	4562.44	1910.99	4567.32	1911	4568.36	1911.08
4579.15	1911.96	4585.46	1912.46	4592.35	1913	4592.57	1913	4597.44	1913.3
4601.04	1913.51	4609.21	1914	4611.34	1914	4613.93	1914.07	4621.81	1914.27
4623.13	1914.28	4629.94	1914.3	4637.83	1914.33	4667.58	1914.58	4671.09	1914.62
4690.3	1914.83	4693.97	1914.85	4699.21	1914.86	4704.21	1914.86	4706.66	1914.85
4711.43	1914.82	4717.8	1914.73	4723.2	1914.64	4734.37	1914.44	4734.76	1914.44
4757.35	1914	4757.9	1913.98	4792.98	1913.88	4798.56	1913.86	4804.6	1913.88
4832.43	1913.86	4834.84	1913.9	4840.48	1913.95	4849.01	1914.01	4852.09	1914.06
4853.68	1914.11	4870.38	1914.39	4875.97	1914.44	4881.41	1914.43	4890.17	1914.4
4892.75	1914.35	4897.76	1914.34	4908.49	1914.12	4910.88	1914.06	4912.43	1914
4917.65	1913.73	4924.2	1913.48	4931.14	1913.78	4932.23	1914	4935.07	1914.45
4938.01	1914.88	4938.41	1914.93	4946.03	1916	4953.3	1917	4955.02	1917.56
4956.62	1918	4958.44	1919	4960.14	1919.87	4962.44	1921.12	4966.05	1923.15
4967.5	1924	4969.43	1925.08	4970.98	1925.96	4972.68	1927	4973.8	1927.67
4974.35	1928.06	4975.79	1929	4987.86	1929.78	4988.77	1929.81	4992.89	1929.92
4994.64	1930	5007.59	1930.44	5010.13	1930.48	5022.5	1930.93	5024.5	1931
5038.94	1931	5040.21	1931.01	5050.82	1931.22	5053.63	1931.3	5055.01	1931.35
5055.95	1931.37	5064.09	1931.64	5065.21	1931.67	5074.72	1932	5078.37	1932.14
5083.5	1932.31	5089.53	1932.43	5104.81	1932.79	5112.03	1933	5115.42	1933.15
5135.25	1934	5143.12	1934.37	5149.39	1934.66	5155.08	1934.93	5156.95	1935
5159.72	1935.02	5168.02	1935.32	5176.81	1935.61	5177.87	1935.64	5183.77	1935.78
5186.58	1935.83	5186.76	1935.84	5189.36	1935.87	5189.47	1935.88	5193.5	1935.92
5194.68	1935.95	5196.55	1935.96	5200.35	1935.96	5203.42	1935.94	5204.09	1935.95
5207	1935.92	5210.57	1935.91	5219.11	1935.82	5238.74	1935.63	5248.25	1935.4
5252.99	1935.27	5262.98	1935	5265.52	1934.97	5267.67	1934.97	5278.3	1934.69

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	5278.3	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	5278.3	130.44	130.44	130.44	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1914.16	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.20	Wt. n-Val.		0.040	
W.S. Elev (ft)	1913.96	Reach Len. (ft)	130.44	130.44	130.44
Crit W.S. (ft)		Flow Area (sq ft)		6239.83	
E.G. Slope (ft/ft)	0.003985	Area (sq ft)		6239.83	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3292.15	Top Width (ft)		3292.15	
Vel Total (ft/s)	3.59	Avg. Vel. (ft/s)		3.59	
Max Chl Dpth (ft)	3.96	Hydr. Depth (ft)		1.90	
Conv. Total (cfs)	354825.7	Conv. (cfs)		354825.7	
Length Wtd. (ft)	130.44	Wetted Per. (ft)		3294.67	
Min Ch El (ft)	1910.00	Shear (lb/sq ft)		0.47	
Alpha	1.00	Stream Power (lb/ft s)	5278.30	0.00	0.00
Frctn Loss (ft)	0.46	Cum Volume (acre-ft)		759.12	
C & E Loss (ft)	0.01	Cum SA (acres)		335.30	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -15473.7

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1917.88	315.56	1917.65	324.22	1917.65	325.97	1917.64	335.05	1917.64
339.78	1917.63	388.69	1917.59	390.88	1917.59	391.69	1917.58	396.39	1917.58
404.84	1917.57	407.49	1917.57	439.03	1917.54	458.69	1917.52	471.95	1917.51
479.71	1917.51	479.78	1917.5	489.27	1917.5	510.45	1917.48	523.21	1917.47
524.23	1917.46	533.01	1917.46	538.49	1917.45	626.09	1917.37	678.67	1917.32
686.11	1917.32	689.57	1917.31	699.87	1917.31	710.34	1917.3	715.37	1917.29
721.5	1917.29	733.39	1917.27	738.77	1917.27	771.13	1917.24	783.8	1917.23
788.06	1917.23	789.3	1917.22	798.09	1917.22	812.66	1917.2	820.63	1917.2
822.65	1917.19	829.62	1917.19	834.06	1917.18	839.38	1917.18	853.05	1917.17
858.82	1917.16	876.38	1917.15	879.23	1917.14	883.61	1917.14	893.4	1917.13
899.28	1917.12	904.19	1917.12	912.3	1917.11	916.89	1917.11	935.62	1917.09
939.82	1917.09	943.13	1917.08	944.92	1917.08	946.03	1915.75	946.42	1915.88
948.04	1914.57	948.92	1911	952.5	1911	953.4	1912.3	953.63	1912.17
955.81	1911	1013.16	1911	1015.99	1911.04	1017.48	1911.05	1077.38	1911.62
1092.55	1911.76	1098.86	1911.78	1128.37	1911.76	1131.57	1911.74	1139.79	1911.75
1144.57	1911.75	1148.33	1911.74	1149.22	1911.73	1152.9	1911.73	1153.28	1911.72
1161.04	1911.7	1164.12	1911.69	1165.7	1911.69	1188.36	1911.59	1230.92	1911.41
1231.93	1911.41	1241.92	1911.36	1260.46	1911.38	1281.04	1911.4	1282.62	1911.37

1282.93	1911.38	1283.76	1911.36	1288.25	1911.44	1296.43	1911.66	1297.39	1911.7
1298.1	1911.71	1301.32	1911.78	1304.3	1911.83	1304.44	1911.84	1307.51	1911.88
1307.72	1911.89	1309.93	1911.91	1312.79	1911.92	1315.39	1911.89	1316.25	1911.86
1318.42	1911.82	1325.9	1911.58	1334.71	1911.25	1336.16	1911.21	1338.49	1911.12
1341.75	1911	1530.1	1911	1534.79	1910.99	1549.63	1910.99	1553.49	1911
1598.56	1911	1607.04	1910.99	1609.22	1910.99	1612.23	1910.98	1616.96	1910.99
1633.06	1910.99	1651.25	1911	1654.78	1911	1667.59	1911.43	1683.01	1912
1741.26	1912	1761.84	1912.18	1765.69	1912.17	1782.3	1912.06	1788.03	1912.02
1792.24	1912.01	1794.61	1912	1806.53	1911.49	1822.93	1911	1902.56	1911
1903.85	1911.46	1904.96	1911.89	1905.87	1912.28	1907.68	1913	1908.37	1913.24
1910.28	1914	1912.36	1914.79	1913.68	1915.27	1914.25	1915.43	1914.68	1915.48
1915.36	1915.68	1915.96	1915.7	1916.36	1915.76	1917.87	1915.83	1920.14	1916
1924.15	1916.16	1925.95	1916.07	1926.93	1915.98	1927.87	1915.71	1930.13	1915
1932.93	1914.04	1933.61	1913.89	1934.58	1913.81	1935.42	1913.64	1936.16	1913.41
1938.06	1912.74	1940.05	1912	1941.79	1911.26	1942.43	1911	2089.61	1911
2096.52	1910.82	2103.15	1910.66	2120.37	1910.25	2126.61	1910.1	2127.02	1910.1
2130.58	1910	2221.15	1910	2226.59	1910.04	2259.94	1910.29	2282.22	1910.36
2291.15	1910.4	2295.03	1910.42	2295.35	1910.43	2297.17	1910.43	2351.07	1911
2565.22	1911	2567.33	1910.94	2570.01	1910.93	2573.57	1910.98	2575.68	1910.97
2576.73	1910.95	2579.82	1910.87	2588.86	1910.57	2592.8	1910.61	2601.23	1911
2610.36	1911.43	2618.58	1911.79	2621.68	1911.92	2623.7	1912	2648.26	1912.63
2650.93	1912.73	2657.69	1912.91	2660.89	1913	2734.9	1913	2743.19	1912.79
2744.39	1912.79	2745.73	1912.72	2759.84	1912.85	2769.62	1912.98	2776.2	1913
2778.02	1913	2789.48	1913.51	2800.42	1914	2807.23	1914.01	2809.64	1914.01
2816.93	1914	2818.4	1914.03	2820.84	1914.05	2820.88	1914.06	2822.6	1914.08
2828.19	1914.17	2829.82	1914.19	2840.6	1914.38	2842.04	1914.39	2845.37	1914.43
2848.24	1914.47	2849.74	1914.46	2853.52	1914.48	2854.6	1914.47	2855.32	1914.48
2856.74	1914.46	2864.96	1914.45	2873.28	1914.47	2873.99	1914.47	2877.66	1914.51
2879.94	1914.54	2881.68	1914.55	2892.98	1914.67	2911.32	1914.89	2913.66	1914.93
2915.04	1914.94	2918.47	1915	2954.24	1915	2955.76	1914.93	2967.1	1914.33
2970.78	1914.2	2970.85	1914.19	2972.39	1914.25	2973.17	1914.25	2975.82	1914.29
2976.83	1914.32	2978.64	1914.36	2987.95	1914.73	2990.82	1914.88	2992.92	1915
3097.22	1915	3101.67	1914.55	3105.65	1914.14	3110.92	1913.66	3118.26	1913
3120.77	1912.84	3130.21	1912.45	3134.11	1912.28	3137.73	1912.13	3141.17	1912
3143.85	1911.77	3155.33	1911.14	3157.72	1911	3207.92	1911	3217.87	1911.59
3224.3	1912	3239.98	1912.95	3241.09	1913	3242.59	1913.01	3246.23	1913.13
3250.23	1913.24	3251.49	1913.31	3252.28	1913.33	3256.23	1913.05	3256.83	1913
3269.48	1912.78	3271.47	1912.73	3274.24	1912.61	3282.93	1912.02	3284.72	1912
3316	1912	3340.11	1911.99	3342.56	1911.99	3350.6	1911.97	3399.76	1911.85
3412.28	1911.89	3418.1	1911.87	3434.37	1911.93	3437.35	1911.93	3448.24	1911.95
3460.02	1911.96	3469.77	1911.98	3472.33	1911.98	3481.6	1911.99	3490.98	1911.99
3494.37	1912	3495.72	1911.99	3499.01	1911.99	3500.62	1911.98	3515.25	1911.92
3528.15	1911.87	3530.95	1911.85	3539.73	1911.81	3552.66	1911.76	3554.09	1911.76
3598.6	1911.87	3599.32	1911.87	3647.01	1911.8	3650.68	1911.82	3653.39	1911.83
3658.53	1911.78	3670.09	1911.61	3671.04	1911.62	3673.61	1911.54	3673.99	1911.55
3675.91	1911.5	3682.19	1911.52	3683.11	1911.53	3683.72	1911.51	3687.7	1911.59
3688.83	1911.58	3691.47	1911.6	3692.46	1911.59	3694.02	1911.6	3696.91	1911.43
3703.64	1911	3705.28	1910.99	3707.73	1910.99	3737.35	1910.88	3751.01	1910.93
3764.85	1910.97	3770.8	1910.99	3771.31	1911	3851.98	1911	3863.93	1911.16
3866.33	1911.17	3878.8	1911.24	3879.85	1911.25	3882.82	1911.26	3884.35	1911.27
3931.03	1911.02	3934.17	1911	4109.19	1911	4120.89	1911.33	4140.89	1912
4170.5	1912.3	4171.83	1912.32	4173.31	1912.33	4174.87	1912.35	4198.73	1912.59
4200.08	1912.61	4234.38	1913	4263.23	1913	4266.08	1912.99	4266.91	1913
4269.99	1912.06	4270.28	1912	4270.78	1911.81	4272.82	1911	4274.77	1910.95
4282.05	1910.75	4319.1	1910.92	4323.68	1910.92	4330.54	1910.91	4336.43	1910.92
4344.94	1910.94	4354.48	1910.96	4360.43	1910.96	4371.06	1910.97	4375.62	1910.98
4397.86	1910.99	4403.07	1910.99	4405.04	1911	4410.83	1911	4415.75	1911.22
4424.24	1912	4427.37	1912.28	4435.56	1913	4459.59	1913.83	4462.18	1914
4480.72	1914	4487.37	1914.06	4520.17	1914.36	4530.47	1914.39	4551.31	1914.42
4571.56	1914.44	4581.58	1914.38	4593.66	1914.32	4601	1914.24	4610.37	1914.13
4619.47	1914	4626.34	1913.68	4627.66	1913.63	4628.51	1913.62	4635.64	1913.31
4643.28	1913.28	4643.95	1913.26	4647.35	1913.26	4648.1	1913.27	4649.89	1913.2
4650.48	1913.2	4658.37	1913.14	4664.75	1913.14	4666.48	1913.16	4675.81	1913.24
4676.07	1913.24	4685.03	1913.3	4685.48	1913.31	4687.37	1913.32	4691.36	1913.35
4693.95	1913.38	4702.03	1913.44	4706.63	1913.49	4707.68	1913.49	4709.41	1913.51
4733.75	1913.69	4738.88	1913.7	4745.23	1913.65	4754.25	1913.57	4759.23	1913.47
4765.57	1913.5	4780.5	1913	4784.02	1913	4788.34	1914.18	4791.15	1915
4793.46	1915.97	4793.57	1916	4800.59	1917	4802.51	1918.2	4802.78	1918.3
4805.03	1919	4805.5	1919.14	4806.25	1919.42	4806.7	1919.62	4807.69	1920.1
4809.46	1921	4810.46	1921.5	4812.65	1922.57	4817.73	1924.91	4817.9	1925
4819.84	1925.91	4820.01	1926	4821.98	1926.89	4822.49	1927.19	4822.89	1927.26
4824.71	1927.4	4829.77	1927.87	4831.04	1928	4836.75	1928.43	4844.02	1929
4853.89	1929.51	4863.94	1930	4871.1	1930.42	4880.93	1931	4882.26	1931.01
4909.13	1931.44	4935.85	1931.84	4940.6	1931.9	4945.05	1932	4964.61	1932.7
4965.76	1932.74	4973.61	1933	4977.44	1933.13	4995.49	1933.84	4999.47	1934
5000.52	1934.03	5018.32	1934.52	5019.36	1934.53	5044.51	1934.99	5053.28	1934.99
5054.31	1935	5057.51	1935	5060.91	1935.07	5061.12	1935.06	5070.96	1935.24
5071.7	1935.23	5097.67	1935.12	5101.54	1935.14	5109.8	1935.14	5120.26	1935.1
5121.28	1935.09	5122.89	1935.09	5123.42	1935.08	5132.21	1935.06	5133.08	1935.06
5142.98	1935.04	5145.46	1935.04	5150.32	1935	5153.65	1934.88	5161.73	1934.6

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	5161.73	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	5161.73	69.83	69.83	69.83	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1913.70	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.17	Wt. n-Val.		0.040	
W.S. Elev (ft)	1913.52	Reach Len. (ft)	69.83	69.83	69.83
Crit W.S. (ft)		Flow Area (sq ft)		6699.63	
E.G. Slope (ft/ft)	0.003110	Area (sq ft)		6699.63	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3262.64	Top Width (ft)		3262.64	
Vel Total (ft/s)	3.34	Avg. Vel. (ft/s)		3.34	
Max Chl Dpth (ft)	3.52	Hydr. Depth (ft)		2.05	
Conv. Total (cfs)	401679.3	Conv. (cfs)		401679.3	
Length Wtd. (ft)	69.83	Wetted Per. (ft)		3267.46	
Min Ch El (ft)	1910.00	Shear (lb/sq ft)		0.40	
Alpha	1.00	Stream Power (lb/ft s)	5161.73	0.00	0.00
Frctn Loss (ft)	0.20	Cum Volume (acre-ft)		739.75	
C & E Loss (ft)	0.00	Cum SA (acres)		325.49	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -15543.5

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1917.67	439.79	1917.35	447.69	1917.35	449.51	1917.34	460.01	1917.34
460.22	1917.33	466.97	1917.33	521.81	1917.28	526.85	1917.28	530.46	1917.27
539.92	1917.26	542.89	1917.26	578.23	1917.23	600.26	1917.21	615.1	1917.2
623.7	1917.19	626.65	1917.19	631.14	1917.18	634.5	1917.18	658.2	1917.16
672.48	1917.14	683.44	1917.14	689.58	1917.13	787.52	1917.04	846.25	1916.99
853.87	1916.98	861.79	1916.98	866.33	1916.97	869.91	1916.97	881.6	1916.96
887.21	1916.95	894.05	1916.95	907.31	1916.93	913.31	1916.93	949.83	1916.9
955.19	1912.36	956.18	1911	971.64	1911	975.14	1910.99	1006.17	1910.99
1014.47	1910.98	1051.08	1911	1067.26	1911	1070	1911.01	1084.62	1911
1279.05	1911	1290.18	1910.95	1337.2	1910.72	1364.73	1910.62	1385.75	1910.55
1387.51	1910.54	1394.32	1910.53	1401.36	1910.51	1407.92	1910.48	1411.46	1910.47
1419.07	1910.43	1469.35	1910.41	1474.04	1910.43	1487.78	1910.34	1506.42	1910.22
1507.24	1910.23	1513.43	1910.23	1524.2	1910.39	1561.03	1910.99	1562.38	1911
1574.42	1911	1580.65	1910.88	1582.22	1910.8	1584.68	1910.81	1587.23	1910.77
1588.27	1910.72	1589.8	1910.69	1605.46	1910	1628.3	1910	1657.99	1910.54
1659.2	1910.56	1691.33	1910.93	1697.23	1911	1709.66	1911.36	1713.8	1911.43
1719.2	1911.54	1721.41	1911.59	1726.1	1911.68	1732.53	1911.81	1740.02	1912
1749.74	1912.34	1757	1912.44	1763.54	1912.6	1767.82	1912.64	1768.72	1912.67
1783.97	1912.8	1784.59	1912.82	1793.71	1912.92	1800.58	1912.95	1804.02	1912.95
1807.24	1912.92	1811.49	1912.89	1813.56	1912.86	1816.97	1912.78	1822.72	1912.72
1834.24	1912.4	1838.94	1912.31	1848.65	1912	1863.64	1911.73	1874.03	1911.63
1890.62	1911.4	1898.79	1911.32	1909.23	1911.23	1921.79	1911.02	1925.04	1911.02
1925.65	1911.01	1935.87	1911.01	1940.14	1911.02	1957.37	1911.02	1964.11	1911.01
1973.87	1911	1987.94	1911	2001.81	1910.99	2040.62	1910.99	2053.37	1911
2062.25	1910.77	2063.3	1910.74	2064.88	1910.73	2066.83	1910.7	2070.3	1910.67
2070.99	1910.65	2080.41	1910.53	2082.68	1910.52	2086.89	1910.4	2094.82	1910
2097.06	1910	2098.83	1911	2100.82	1912	2102.78	1913	2103.5	1913.38
2104.39	1913.68	2105.66	1914	2110.37	1915	2112.22	1915.42	2113.12	1915.64
2117.83	1916.68	2118.35	1916.81	2121.83	1917.59	2123.88	1918	2124.82	1918
2125.42	1917.85	2129.21	1917	2133.64	1916	2136.27	1915.43	2137.98	1915
2138.68	1914.61	2140.25	1914	2142.99	1912.4	2143.72	1912	2145.4	1911
2146.34	1910.46	2147.29	1910	2150.45	1910	2153.14	1910.33	2153.27	1910.32
2159.27	1910.43	2164.1	1910.46	2170.66	1910.31	2180.05	1910	2220.01	1910
2222.76	1911	2226.15	1912.18	2229.11	1913	2232.57	1914	2238.72	1914
2242.32	1913.41	2248.29	1912	2253.18	1910.32	2253.92	1910	2266.78	1910
2269.01	1910.01	2273.37	1910.01	2277.92	1910.02	2290.41	1910.15	2317.53	1910.38
2326.3	1910.41	2341.4	1910.45	2347.07	1910.47	2354.02	1910.49	2355.4	1910.49
2361.66	1910.55	2377.13	1910.58	2394.36	1910.61	2425.22	1911	2587.91	1911
2590.52	1911.5	2592.65	1912	2593.68	1912.32	2596.07	1913	2597.86	1913.57
2599.37	1914	2601.1	1914.03	2603.3	1914	2607.8	1913.5	2612.35	1913
2613.6	1912.96	2614.31	1912.97	2616.25	1912.75	2616.66	1912.75	2617.31	1912.63
2617.7	1912.5	2619.46	1912.14	2620.29	1912	2626.68	1911	2639.85	1911
2643.55	1911.35	2646.11	1911.57	2649.09	1911.76	2652.3	1912	2655.97	1912
2664.62	1912.24	2671.3	1912.32	2679.33	1912.34	2686.84	1912.35	2691.23	1912.33
2697.63	1912.27	2702.24	1912.24	2704.93	1912.23	2724.68	1912.1	2730.99	1912.04
2740.51	1912	2764.37	1912	2776.85	1912.45	2783.51	1912.67	2786.51	1912.75
2793.7	1913	2793.86	1913.01	2804.03	1914	2804.56	1914.07	2807.74	1914.28
2809.88	1914.38	2810.41	1914.36	2818.32	1914.29	2818.85	1914.27	2822.58	1914
2830.25	1914	2832.98	1914.01	2834.73	1914	2840.9	1914	2852.31	1913.53
2853.23	1913.52	2856.94	1913.39	2860.17	1913.34	2860.81	1913.35	2864.01	1913.33
2866.83	1913.36	2871.38	1913.44	2878.05	1913.65	2879.39	1913.68	2881.97	1913.77
2885.39	1913.9	2887.71	1914	2889.64	1914.12	2895.53	1914.41	2898.04	1914.55
2901.87	1914.73	2908.06	1915	2915.46	1915	2922.35	1915.04	2928.18	1915.08
2949.11	1915.13	2957	1915.19	2968.44	1915.52	2983.02	1915.88	2983.39	1915.84
2984.07	1916	2985.63	1916.62	2986.54	1917	2988.11	1917.58	2989.47	1918
2992.22	1918.23	2996.44	1918.57	2997.32	1918.66	3000.82	1918.93	3001.85	1919
3010.17	1919.61	3015.9	1921	3016.42	1921.14	3018.6	1921.51	3019.38	1921.62

3020.95	1921.59	3021.93	1921.61	3028.97	1921.92	3030.9	1921.96	3032.5	1921.68
3033.66	1921.51	3035.76	1921	3036.61	1920.88	3043.11	1920	3048.83	1919.24
3050.59	1919	3053.41	1918.77	3056.14	1918.6	3063.16	1918.13	3067.31	1918
3068.82	1917.91	3071.1	1917.75	3072.29	1917.63	3075.6	1917.33	3078.74	1917.07
3083.33	1916.6	3087.43	1916	3090.43	1915.39	3096.19	1914.06	3097.03	1913.86
3100.81	1913	3105.16	1912	3106.87	1911.6	3110.32	1911	3268.8	1911
3280.71	1911.02	3283.33	1911.02	3311.99	1911.27	3336.33	1911.42	3345.15	1911.39
3354.9	1911.35	3356.84	1911.35	3369.99	1911.28	3382.29	1911.27	3385.38	1911.27
3412.04	1911.2	3414.95	1911.21	3434.16	1911.17	3455.17	1911.13	3456.76	1911.14
3459.91	1911.12	3464.21	1911.12	3465.68	1911.13	3492.4	1911.13	3496.98	1911.15
3548.56	1911.12	3576.2	1911.04	3589.7	1911	3621.73	1911	3626.08	1911.01
3628.87	1911.01	3636.31	1911.02	3640.06	1911.03	3647.23	1911.04	3668.31	1911.01
3673.01	1911	3698.34	1911	3712.38	1910.03	3712.64	1910	3721.44	1910
3734.83	1910.09	3743.1	1910.11	3749.43	1910.13	3751.03	1910.13	3762.68	1910.05
3771.48	1910.01	3775.52	1910	3789.57	1910	3798.84	1910.1	3807.56	1910.19
3814.38	1910.21	3823.87	1910.26	3829.32	1910.35	3829.93	1910.35	3834.57	1910.43
3845.08	1910.53	3852.96	1910.57	3854.94	1910.59	3860.43	1910.69	3869.9	1911
4085.01	1911	4087.72	1911.04	4091.77	1911.05	4099.87	1911.22	4116.21	1911.51
4131.06	1911.95	4132.65	1912	4209.71	1913	4217.85	1913	4220	1912.38
4220.33	1912.09	4220.53	1912.22	4221.42	1911.93	4223.94	1911	4262.66	1910.13
4265.89	1910.06	4268.2	1910	4271.29	1910	4276.41	1910.05	4278.66	1910.08
4286.53	1910.17	4352.37	1910.99	4355.2	1911	4369.01	1911.81	4373.06	1912
4373.44	1912	4375.81	1912.11	4377.25	1912.2	4377.7	1912.25	4387.44	1912.72
4389.28	1912.84	4392.08	1913	4392.61	1913	4394.46	1913.06	4402.66	1913.28
4407.85	1913.4	4411.23	1913.41	4427.81	1913.77	4430.92	1913.86	4433.56	1913.87
4444.39	1913.94	4448.86	1913.95	4456.82	1913.9	4462.92	1913.92	4479.12	1914
4492.84	1914.05	4508.38	1914	4530.64	1914	4557.53	1914.03	4558.53	1914.03
4563.51	1914	4587.72	1914	4604.73	1913.12	4607.44	1913	4641.15	1913
4642.14	1912.99	4644.49	1913	4682.8	1913	4697.54	1913.11	4719.7	1913.27
4721.68	1913.27	4737.12	1913.15	4754.62	1913	4758	1913	4759.17	1912.99
4760.94	1913	4761.5	1913.25	4763.43	1914	4764.56	1914.32	4769.15	1915.55
4770.49	1916	4772.62	1916.78	4773.27	1917	4774.79	1918	4778.95	1920.79
4780.72	1921.96	4783.87	1924	4785.39	1925	4786.83	1925.78	4787.52	1925.9
4788.33	1926	4789.88	1926.03	4791.45	1926.11	4797.91	1926.41	4806.59	1927
4810.66	1927.24	4816.51	1927.56	4819.84	1927.75	4823.33	1927.91	4824.49	1928
4827.56	1928.27	4833.1	1928.73	4835.32	1928.92	4850.78	1930	4855.04	1930.25
4868.22	1931	4871.98	1931.01	4872.62	1931	4883.03	1931	4903.64	1931.56
4910.85	1931.76	4912	1931.78	4922.1	1931.99	4923.8	1932	4924.94	1932.04
4953.55	1933	4957.18	1933.12	4979.9	1933.82	4984.69	1934	4990.33	1934
5019.55	1934.49	5027.06	1934.65	5040.74	1934.91	5045.98	1935	5058.31	1935.04
5065.96	1935.02	5067.63	1935.02	5071.08	1935	5118.25	1935	5122.81	1935.02

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	5122.81	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	5122.81	97.76	97.76	97.76	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1913.49	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.16	Wt. n-Val.		0.040	
W.S. Elev (ft)	1913.34	Reach Len. (ft)	97.76	97.76	97.76
Crit W.S. (ft)		Flow Area (sq ft)		7039.32	
E.G. Slope (ft/ft)	0.002623	Area (sq ft)		7039.32	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3248.75	Top Width (ft)		3248.75	
Vel Total (ft/s)	3.18	Avg. Vel. (ft/s)		3.18	
Max Chl Dpth (ft)	3.33	Hydr. Depth (ft)		2.17	
Conv. Total (cfs)	437382.3	Conv. (cfs)		437382.3	
Length Wtd. (ft)	97.76	Wetted Per. (ft)		3254.16	
Min Ch El (ft)	1910.00	Shear (lb/sq ft)		0.35	
Alpha	1.00	Stream Power (lb/ft s)	5122.81	0.00	0.00
Frctn Loss (ft)	0.28	Cum Volume (acre-ft)		728.73	
C & E Loss (ft)	0.00	Cum SA (acres)		320.27	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -15641.3

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1917.39	532.99	1917.02	541.84	1917.01	546.07	1917.01	549.36	1917
557.49	1917	563.42	1916.99	624.81	1916.94	627.56	1916.94	628.57	1916.93
634.48	1916.93	645.07	1916.92	648.38	1916.92	687.91	1916.88	712.52	1916.86
729.11	1916.85	738.72	1916.84	740.59	1916.84	741.88	1916.83	750.78	1916.83
777.26	1916.8	794.7	1916.79	799.13	1916.78	805.44	1916.78	812.29	1916.77
909.96	1916.69	911.45	1915.97	916.33	1915.76	933.17	1913.33	933.22	1913.32
939.65	1912.99	940.89	1912.83	946.21	1912.57	946.84	1912.5	952.44	1912.24
952.97	1912.18	963.3	1911.66	963.94	1911.6	965.6	1911.52	967.01	1911.48

968.32	1911.36	969.71	1911.34	970.27	1911.29	970.93	1911.29	971.18	1911.26
972.83	1911.23	974.48	1910.16	975.93	1910.15	985.84	1910.15	996.7	1910.16
999.41	1910.17	1013.18	1910.21	1016.74	1910.23	1018.12	1910.23	1025.38	1910.26
1040.15	1910.31	1064.72	1910.48	1142.01	1911	1282.05	1911	1350.94	1910.64
1352.13	1910.64	1355.16	1910.62	1357.95	1910.61	1360.6	1910.59	1384.93	1910.47
1431.38	1910.22	1434.13	1910.21	1458.37	1910.1	1465.65	1910.06	1480.67	1910.03
1492.74	1910	1509.82	1910	1527.55	1910.4	1530.17	1910.49	1538.86	1910.67
1543.02	1910.76	1545.85	1910.94	1546.93	1911	1566.57	1911	1571.83	1910.86
1596.7	1910	1624.83	1910	1632.36	1910.18	1634.59	1910.21	1637.17	1910.3
1639.62	1910.34	1640.26	1910.37	1642.46	1910.41	1645.48	1910.51	1647.15	1910.55
1648.37	1910.59	1661.39	1911	1675.44	1911.48	1681.28	1911.69	1683.9	1911.79
1689.61	1912	1689.78	1912	1695.59	1912.18	1711.71	1912.62	1715.78	1912.71
1724.37	1912.93	1727.02	1912.99	1729.55	1912.98	1732.38	1912.94	1765.7	1912.83
1795.56	1912.84	1797.03	1912.95	1797.98	1913	1800.47	1913.54	1801.03	1913.71
1801.49	1913.78	1801.72	1913.86	1802.36	1913.88	1804.7	1913.8	1805.76	1913.71
1806.36	1913.62	1807.31	1913.37	1808.45	1912.98	1810.88	1912	1820.3	1911.88
1833.87	1911.71	1843.1	1911.6	1852.67	1911.44	1875.8	1911.04	1877.78	1911
1974.07	1911	1975.55	1910.96	1978.21	1910.99	1980.54	1911	2084.03	1911
2085.54	1910.98	2104.03	1910.82	2129.53	1910.63	2130.09	1910.65	2131.66	1910.67
2134.62	1910.67	2139.12	1910.66	2139.64	1910.68	2142.42	1910.71	2144.32	1910.74
2147.44	1910.77	2151.11	1910.76	2155.44	1910.73	2155.82	1910.74	2157.26	1910.71
2157.95	1910.71	2160.9	1910.65	2165.5	1910.5	2166.24	1910.49	2168.11	1910.43
2171.89	1910.35	2173.43	1910.31	2180.22	1910.01	2182.92	1910	2185.85	1910
2192.9	1910.91	2193.53	1911	2199.6	1911.9	2200.42	1912.06	2204.13	1913
2204.82	1913.39	2205.55	1914	2206.79	1914.39	2210.11	1915	2212.01	1915.49
2214.67	1916	2218.61	1917	2220.46	1917.43	2221.48	1917.46	2222.45	1917.35
2222.59	1917.37	2223.19	1917.28	2224.61	1917	2229.48	1916.36	2231.94	1916
2237.86	1915.46	2238.35	1915.38	2239.27	1915.19	2240.02	1915	2240.68	1914.73
2243.06	1913.5	2243.99	1913	2247.87	1911	2248.16	1910.82	2249.75	1910
2253.72	1909.83	2264.71	1909.45	2269	1909.36	2271.89	1909.33	2272.06	1909.32
2277	1909.29	2279.92	1909.35	2280.09	1909.34	2290.66	1909.35	2303.05	1909.39
2314	1909.52	2318.3	1909.59	2336.19	1909.92	2338.1	1909.96	2339.94	1909.96
2343.22	1909.97	2346.38	1910	2363.72	1910.67	2376.1	1911	2480.28	1911
2480.8	1910.98	2502.05	1910	2503.07	1910	2504.85	1909.92	2505.34	1909.93
2512.31	1909.71	2516.63	1909.58	2517.9	1909.59	2523.85	1909.46	2534.52	1909.46
2547.16	1909.54	2549.35	1909.57	2561.44	1909.77	2571.05	1909.95	2572.6	1910
2574.25	1910	2579.65	1910.05	2583.14	1910.06	2586.39	1910	2621.64	1910
2641.77	1910.89	2644.08	1911	2682.96	1911.79	2688.21	1911.9	2691.1	1911.95
2693.29	1912	2694.72	1912.02	2697.53	1912.03	2698.08	1912.04	2700.7	1912.03
2702.72	1912.04	2712.22	1912.52	2713.27	1912.56	2720.15	1913	2778.2	1913
2780.22	1912.96	2784.6	1912.79	2788.44	1912.66	2795.2	1912.37	2799.89	1912.19
2804.51	1912	2805.05	1912	2812.28	1911.37	2816.49	1911	2818.39	1910.99
2822.35	1910.96	2823.31	1910.97	2828.26	1911	2830.42	1911.36	2834.96	1912
2838.28	1912.26	2841.73	1912.49	2846.93	1913	2855.6	1914	2858.91	1914.57
2861.29	1915.02	2862.36	1915.18	2863.15	1915.28	2863.81	1915.41	2864.93	1915.55
2868.76	1915.74	2870.9	1915.93	2875.15	1916.03	2876.47	1916.01	2877.35	1915.97
2878.29	1915.86	2878.95	1915.68	2879.69	1915.43	2880.91	1914.94	2882.03	1914.42
2882.86	1914	2883.12	1913.64	2883.82	1913	2884.45	1912.63	2887.26	1912
2890.56	1912	2896.73	1912.75	2899.07	1913	2905.18	1913.61	2908.84	1914
2915.53	1915	2920.7	1916	2923.86	1916.58	2925.97	1917	2930.05	1917.78
2931.27	1918	2932.39	1918.15	2938.47	1919	2944.48	1919.78	2946.3	1920
2946.63	1920.02	2947.87	1920.04	2949.5	1920	2952.94	1918.8	2955.19	1918
2958.55	1916.85	2960.85	1916	2961.72	1915.69	2963.58	1915	2969	1913
2974.81	1912.12	2975.57	1912	2978.03	1911.7	2983.67	1911	2988.11	1910.48
2991.31	1910.13	2994.01	1910.22	3010.56	1910.81	3015.28	1911	3017.24	1911
3022.94	1911.01	3026.71	1911.01	3032.3	1911	3168.76	1911	3224.27	1910.98
3241.76	1910.99	3288.36	1910.99	3293.94	1911	3619.19	1911	3642.61	1910.52
3669.4	1910	3670.5	1910	3671.08	1909.98	3675.67	1909.57	3679.13	1909.27
3681.07	1909	3694.45	1909	3695.34	1909.03	3702.21	1909.22	3703.84	1909.27
3729.87	1910	3760.98	1910	3772.72	1910.19	3776.83	1910.24	3795.31	1910.39
3803.26	1910.45	3819.89	1910.71	3822.09	1910.76	3823.57	1910.78	3834.89	1911
3919.26	1911	3926.14	1910.99	3932.95	1911	3987.74	1911	3990.05	1910.97
4019.12	1910.6	4022.13	1910.59	4025.47	1910.59	4025.92	1910.58	4037.1	1910.66
4052.46	1910.8	4053.22	1910.81	4055.87	1910.81	4056.64	1910.82	4074.68	1911
4077.69	1911	4084.26	1912	4084.88	1912	4104.28	1912.12	4121.69	1912.02
4124.88	1912	4126.07	1911.69	4129.75	1911	4134.76	1910.89	4143.18	1911
4166.5	1911	4221.64	1910.46	4223.86	1910.46	4257.95	1910.95	4263.26	1911.03
4263.56	1911.04	4266.41	1911.04	4274.9	1911.42	4284.13	1911.68	4289.93	1911.87
4293.06	1912	4297.08	1912.33	4306.29	1913	4310.35	1913.31	4314.21	1913.62
4318.04	1914	4322.97	1914.33	4323.76	1914.31	4332.47	1914.02	4335.9	1914.02
4350.9	1914	4354.16	1914	4368.03	1913.67	4384.94	1913.41	4393.99	1913.36
4402.25	1913.4	4408.47	1913.45	4416.69	1913.53	4418.74	1913.56	4420.61	1913.57
4423.78	1913.6	4442.17	1913.68	4454.28	1913.73	4465.44	1913.45	4467.18	1913.46
4473.31	1913.48	4474.91	1913.47	4486.24	1913.1	4486.91	1913.09	4490.55	1913
4567.42	1913	4571.91	1912.99	4576.48	1913	4637.76	1913	4642.98	1912.99
4653.08	1912.99	4658.35	1912.98	4687.47	1912.98	4692.78	1912.99	4698.62	1912.99
4702.23	1913	4703.87	1913.89	4704.05	1914	4704.91	1914.16	4710.19	1915
4712.4	1915.41	4713.92	1915.65	4716.01	1916	4716.39	1916.25	4718.81	1918.19
4719.81	1918.95	4721.11	1919.99	4722.43	1921	4725.14	1923	4725.45	1923.26
4726.42	1924	4726.8	1924.32	4727.68	1925	4728.14	1925.39	4729.07	1926
4729.75	1926.32	4731.38	1927	4732.46	1927.48	4733.39	1927.91	4736.06	1928.99
4736.67	1928.9	4740.04	1928	4743.66	1927.06	4747.42	1926	4766.25	1926
4768.66	1926.1	4771.73	1926.26	4785.1	1927	4785.23	1927	4787.64	1927.22
4795.23	1928	4802.73	1928.88	4803.79	1929	4804.05	1929	4809.49	1929.32
4809.59	1929.32	4817.62	1929.73	4817.72	1929.73	4826.31	1930	4832.43	1930
4839.71	1930.92	4840.38	1931	4842.46	1931.08	4870.21	1932	4882.7	1932.31
4905.04	1933	4908.74	1933.12	4917.14	1933.34	4932.5	1933.75	4941.76	1934
4942.62	1934	4953.84	1934.26	4960.58	1934.4	4961.41	1934.4	4974.47	1934.49

4979.4	1934.56	5003.65	1935	5043.12	1935	5058.45	1934.74	5095.79	1934.11
5096.87	1934.08	5099.16	1934	5101.06	1934	5102.11	1933.94	5113.82	1933.33

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	5113.82	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	5113.82	82.86	82.86	82.86	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1913.21	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.17	Wt. n-Val.		0.040	
W.S. Elev (ft)	1913.05	Reach Len. (ft)	82.86	82.86	82.86
Crit W.S. (ft)		Flow Area (sq ft)		6844.55	
E.G. Slope (ft/ft)	0.003089	Area (sq ft)		6844.55	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3426.54	Top Width (ft)		3426.54	
Vel Total (ft/s)	3.27	Avg. Vel. (ft/s)		3.27	
Max Chl Dpth (ft)	4.05	Hydr. Depth (ft)		2.00	
Conv. Total (cfs)	403056.8	Conv. (cfs)		403056.8	
Length Wtd. (ft)	82.86	Wetted Per. (ft)		3429.38	
Min Ch El (ft)	1909.00	Shear (lb/sq ft)		0.38	
Alpha	1.00	Stream Power (lb/ft s)	5113.82	0.00	0.00
Frctn Loss (ft)	0.19	Cum Volume (acre-ft)		713.15	
C & E Loss (ft)	0.01	Cum SA (acres)		312.78	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -15724.2

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1917.22	646.88	1916.78	656.33	1916.78	658.51	1916.77	664.37	1916.77
670.24	1916.76	679.4	1916.76	744.93	1916.7	749.21	1916.7	750.94	1916.69
755.24	1916.69	766.53	1916.68	770.07	1916.68	812.2	1916.64	838.51	1916.62
856.09	1916.6	866.53	1916.6	866.79	1916.59	875.17	1916.59	879.15	1916.58
907.33	1916.56	924.28	1916.55	925.64	1916.54	930.72	1916.54	935.75	1911.11
938.04	1910	949.44	1909.96	962.3	1910	1067.93	1910	1071.84	1910.04
1074.24	1910.07	1106.11	1910.4	1130.16	1910.61	1143.06	1910.72	1154.6	1910.83
1156.14	1910.84	1157.9	1910.86	1174.59	1911	1398.48	1911	1429.61	1910.85
1494.91	1910.55	1502.38	1910.54	1509.93	1910.52	1512.4	1910.51	1537.63	1910.39
1580.93	1910.16	1584.72	1910.13	1592.43	1910.08	1601.23	1910	1604.21	1910
1605.52	1909.97	1608.74	1909.97	1625.23	1909.48	1626.5	1909.45	1627.23	1909.42
1628.38	1909.39	1632.89	1909.25	1633.66	1909.23	1641.37	1909	1674.79	1909
1677.63	1909.1	1678.33	1909.11	1679.29	1909.14	1683.1	1909.24	1704.5	1909.79
1707.28	1909.87	1712	1910	1727.28	1910.84	1729.91	1910.95	1731.5	1911
1736.19	1911.25	1736.9	1911.34	1738.25	1911.48	1741.66	1911.75	1742.32	1911.82
1743.2	1911.9	1744.41	1912	1758.8	1912	1760.24	1911.99	1768.2	1911.99
1769.9	1911.98	1772.72	1911.97	1777.78	1911.96	1778.89	1911.96	1785.35	1911.95
1789.12	1911.95	1790.11	1911.96	1792.37	1911.96	1797.44	1911.99	1798.15	1912.01
1798.77	1912.08	1799.25	1912.15	1800.7	1912.3	1801.78	1912.37	1810.36	1912.19
1812.62	1912.1	1813.79	1912.09	1815.6	1912.11	1816.39	1912.14	1817.61	1912.1
1823.16	1912.23	1825.1	1912.25	1826.97	1912.26	1833.11	1912.22	1833.84	1912.2
1850.42	1912.11	1850.61	1912.12	1853.93	1912.08	1854.15	1912.08	1860.42	1912
1868.05	1911.87	1869.5	1911.83	1869.89	1911.8	1874.08	1911.76	1875.16	1911.69
1876.65	1911.65	1878.01	1911.59	1879.16	1911.53	1886.7	1911	1979.03	1911
1995.61	1910.58	1996.59	1910.55	2004.12	1910.31	2012.84	1910.01	2013.93	1910
2027.06	1910	2031.89	1909.86	2042.42	1909.57	2042.94	1909.57	2048.77	1909.55
2052.78	1909.58	2057.3	1909.62	2058.54	1909.62	2063.93	1909.61	2070.75	1909.71
2072.54	1909.72	2075.78	1909.99	2076.03	1910	2259.43	1910	2282.58	1909.08
2285.81	1909	2330.6	1909	2333.35	1909.14	2333.58	1909.14	2361.08	1909.27
2366.83	1909.35	2377.69	1909.51	2389.16	1909.71	2392.85	1909.74	2396.38	1909.8
2397.17	1909.81	2407.87	1910	2411.04	1910.01	2412.27	1910.01	2415.22	1910.03
2417.05	1910.03	2419.26	1910.04	2420.42	1910.04	2425.4	1910.14	2451.31	1910.6
2451.91	1910.6	2464.06	1910.67	2472.89	1910.71	2473.14	1910.71	2477.84	1910.62
2478.5	1910.61	2484.82	1910.5	2485.14	1910.5	2491.84	1910.39	2494.09	1910.36
2496.05	1910.34	2500.56	1910.38	2503.11	1910.21	2505.99	1910	2507.13	1910
2508.51	1909.89	2515.3	1909.38	2520.03	1909	2536.91	1909	2547.01	1909.77
2548.39	1910	2548.9	1910.27	2550.36	1911	2552.38	1911.7	2554.42	1913
2555.7	1913.82	2555.99	1913.85	2558.04	1914	2567.29	1914.79	2567.83	1914.82
2568.35	1914.82	2569.12	1914.79	2577.16	1914	2578.6	1913.81	2579.76	1913.69
2580.09	1913.64	2581.03	1913.46	2581.92	1913.24	2582.85	1913	2583.32	1912.85
2583.77	1912.68	2585.89	1912	2591.81	1911.15	2592.95	1911.07	2593.43	1911.06
2594.75	1911.01	2595.52	1911	2596.49	1910.91	2602.37	1910	2615.57	1910
2616.6	1910.07	2619.71	1910.02	2623.05	1910.03	2635.68	1910.09	2642.89	1910.1
2644.98	1910.11	2653.44	1910.06	2661.93	1910	2701.79	1910	2701.87	1910.01
2703.28	1910.02	2714.22	1910.39	2720.75	1910.53	2720.99	1910.54	2722.17	1910.55
2730.1	1910.68	2734.73	1910.74	2746.28	1911	2747.38	1911.03	2752.35	1911.14
2755.74	1911.18	2758.52	1911.2	2771.43	1911.28	2776.5	1911.3	2780.67	1911.28

2790.02	1911.29	2793.03	1911.27	2806.82	1911.3	2817.24	1911.27	2823.95	1911.13
2827.85	1911.02	2830.19	1911.01	2830.57	1911	2831.5	1911	2834.78	1910.82
2841.44	1910.45	2849.45	1910	3003.7	1910	3005.37	1910.05	3008.45	1910.15
3020.63	1910.55	3030.88	1910.88	3034.5	1911	3052.33	1911	3058.31	1910.96
3061.52	1911	3087.37	1911	3120.72	1910.99	3142.18	1911	3143.87	1911
3164.46	1910.99	3195.1	1910.99	3214.58	1910.98	3234.05	1910.98	3274.09	1910.97
3287.67	1910.97	3315.17	1910.98	3319.67	1910.98	3329.13	1910.99	3350.68	1910.99
3352.69	1911	3678.76	1911	3680.72	1910.93	3681.67	1910.89	3686.23	1910.61
3691.46	1910.31	3696.64	1910	3706.5	1909.67	3724.32	1909	3741.82	1909
3743	1909.01	3746.78	1909.11	3753.7	1909.29	3771.03	1909.7	3779.65	1910
3866.36	1910	3868.66	1910.02	3868.82	1910.03	3871.53	1910.06	3872.73	1910.07
3875.87	1910.12	3882.52	1910.16	3890.05	1910.2	3890.79	1910.2	3896.79	1910.27
3909.65	1910.43	3910.97	1910.44	3912.88	1910.49	3914.7	1910.51	3917.51	1910.58
3918.74	1910.59	3922.85	1910.69	3926.43	1910.74	3929.1	1910.77	3929.71	1910.79
3931.02	1910.8	3931.34	1910.81	3933.12	1910.83	3934.6	1910.84	3938.62	1910.84
3940.92	1910.83	3941.77	1910.83	3944	1910.82	3945.48	1910.8	3947.45	1910.76
3951.95	1910.72	3955.43	1910.65	3958.12	1910.62	3961.35	1910.58	3962.08	1910.56
3966.86	1910.51	3970.56	1910.48	3971.49	1910.48	3971.63	1910.47	3994.34	1910.18
3999.7	1910.11	4013.38	1910.09	4014.92	1910.09	4016.68	1910.1	4019.18	1910.13
4032.06	1910.14	4034.27	1910.17	4037.33	1910.2	4040.06	1910.24	4053.73	1910.28
4061	1910.24	4069.31	1910.18	4070.92	1910.26	4071.86	1910.24	4073.33	1910.31
4073.92	1910.3	4074.72	1910.31	4076.59	1910.39	4077.01	1910.4	4083.26	1910.48
4084.09	1910.52	4084.93	1910.52	4085.77	1910.51	4087.1	1910.48	4087.56	1910.5
4089.48	1910.55	4094.49	1910.31	4095.14	1910.29	4102.18	1910	4115.38	1910
4120.86	1910.17	4122.38	1910.13	4125.64	1910.2	4127.1	1910.24	4128.94	1910.2
4152.42	1910.51	4187.89	1910.99	4188.54	1911	4214.68	1911	4228.43	1910.85
4229.49	1910.86	4239.91	1911	4256.52	1911	4272.74	1911.94	4276.96	1912.27
4285.74	1913	4287	1913.12	4297.37	1914.06	4301.52	1914.43	4303.25	1914.49
4308.72	1914.62	4308.94	1914.63	4312.1	1914.72	4312.35	1914.74	4317.32	1914.98
4318.5	1915	4319.68	1915.13	4319.81	1915.13	4322.09	1915.38	4322.45	1915.37
4325.17	1915.19	4326.32	1915.21	4328.74	1915.15	4334.32	1915.04	4336.79	1914.98
4340.01	1914.72	4347.86	1914	4350.55	1914	4352.71	1913.99	4369.4	1913.43
4386.99	1913	4392.28	1913	4433.85	1913.24	4461.82	1913.39	4469.73	1913.2
4477.35	1913	4653.16	1913	4658.66	1912.99	4660.66	1912.99	4667.34	1912.98
4676.75	1912.97	4682.05	1912.97	4686.44	1912.98	4700	1913	4701.17	1913.33
4702.23	1913.72	4703.04	1914	4704.59	1914.47	4706.2	1915	4707.06	1915.27
4708.47	1915.7	4709.39	1916	4712.44	1916.96	4712.58	1917	4715.96	1918.03
4718.07	1918.62	4719.01	1919	4721.07	1919.89	4721.29	1920	4721.72	1920.31
4722.13	1920.49	4722.86	1920.9	4723.05	1921.08	4724.52	1922.54	4725.01	1923
4725.7	1923.69	4725.99	1924	4726.39	1924.56	4726.77	1924.82	4726.97	1925
4727.22	1925.27	4727.59	1925.58	4728.21	1926	4732.32	1926.82	4733.26	1927
4738.58	1928	4738.9	1928.07	4741.94	1928.33	4744.19	1928.33	4744.42	1928.29
4745.45	1928	4748.69	1927.21	4749.6	1927	4750.43	1926.82	4754.13	1926
4775.23	1926	4782.36	1926.63	4786.94	1927	4798.16	1927.95	4798.78	1928
4801.51	1928.15	4802.01	1928.17	4804.29	1928.31	4815.7	1929	4836.22	1929.89
4837.09	1929.92	4838.82	1930	4839.11	1930.03	4847.1	1931	4857.8	1931.58
4867.01	1931.94	4868.32	1932	4890.12	1932.55	4907.87	1933	4914.68	1933.2
4940.5	1934	4941.32	1934.02	4963.54	1934.52	4968.03	1934.61	4969.39	1934.64
4970.66	1934.66	4974.49	1934.75	4977.55	1934.8	4978.44	1934.8	4990.01	1934.87
5003.95	1934.96	5004.35	1934.96	5006.34	1935	5027.6	1935	5052.51	1934.58
5053.25	1934.57	5083.14	1934.23	5102.05	1934	5102.94	1934	5103.06	1933.99

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	5103.06	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	5103.06	68.5	68.5	68.5	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1913.01	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.12	Wt. n-Val.		0.040	
W.S. Elev (ft)	1912.88	Reach Len. (ft)	68.50	68.50	68.50
Crit W.S. (ft)		Flow Area (sq ft)		7908.18	
E.G. Slope (ft/ft)	0.001830	Area (sq ft)		7908.18	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3321.24	Top Width (ft)		3321.24	
Vel Total (ft/s)	2.83	Avg. Vel. (ft/s)		2.83	
Max Chl Dpth (ft)	3.88	Hydr. Depth (ft)		2.38	
Conv. Total (cfs)	523565.8	Conv. (cfs)		523565.8	
Length Wtd. (ft)	68.50	Wetted Per. (ft)		3323.82	
Min Ch El (ft)	1909.00	Shear (lb/sq ft)		0.27	
Alpha	1.00	Stream Power (lb/ft s)	5103.06	0.00	0.00
Frctn Loss (ft)	0.12	Cum Volume (acre-ft)		699.12	
C & E Loss (ft)	0.00	Cum SA (acres)		306.36	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -15792.7

INPUT
Description:

Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1917	36.16	1916.98	55.33	1916.97	79.64	1916.95	90.79	1916.94
722.91	1916.52	733.07	1916.52	735.4	1916.51	741.7	1916.51	748	1916.5
751.02	1916.5	757.84	1916.49	828.18	1916.44	831.14	1916.43	839.24	1916.43
851.6	1916.42	852.66	1916.41	855.15	1916.41	900.34	1916.37	902.82	1916.37
908.9	1913.14	914.09	1912.46	916.81	1911.52	923.36	1910.83	924.38	1910.55
924.69	1910.52	924.86	1910.47	925	1910.48	930.32	1910.62	930.83	1910.51
936.05	1910.64	936.49	1910.56	938.67	1910.19	940.55	1909.13	943.41	1909.14
945.21	1909.13	946.31	1909.14	955.82	1909.17	970.74	1909.22	972.04	1909.22
976.2	1909.25	981.72	1909.3	983.64	1909.31	984.22	1909.31	985.87	1909.32
986.45	1909.33	1004.8	1909.45	1008.83	1909.48	1016.53	1909.53	1046.81	1909.76
1075.37	1909.99	1077.88	1909.99	1078.76	1910	1095.42	1910.22	1123.17	1910.61
1125.86	1910.65	1150.75	1911	1256.6	1911	1267.58	1910.82	1276.21	1910.69
1276.3	1910.69	1282.91	1910.62	1288.26	1910.56	1295.44	1910.51	1295.88	1910.51
1301.42	1910.47	1302.6	1910.47	1305.04	1910.49	1356.31	1910.6	1434.56	1910.76
1435.73	1910.76	1441.09	1910.79	1442.17	1910.79	1445.16	1910.81	1446.66	1910.81
1447.7	1910.82	1479.34	1911	1509.94	1911	1510.97	1910.98	1561.04	1910.37
1561.17	1910.37	1567.14	1910.14	1569.43	1910.03	1569.93	1910.03	1571.95	1910
1599.66	1910	1631.49	1909.62	1651.09	1909.37	1679	1909.01	1679.4	1909
1728.53	1909	1734.71	1909.77	1737.05	1910	1739.53	1910.56	1741.5	1911
1742.84	1911.37	1743.13	1911.43	1743.61	1911.47	1744.04	1911.49	1744.97	1911.55
1745.62	1911.53	1746.71	1911.63	1748.45	1911.85	1749.53	1912	1750.16	1912.07
1752.51	1912.3	1753.32	1912.33	1754.05	1912.35	1755.13	1912.32	1762.14	1912
1762.86	1911.97	1764.25	1911.88	1766.61	1911.69	1774.96	1911	1776.08	1910.95
1776.74	1910.95	1778.35	1910.89	1786.01	1910.81	1792.65	1910.77	1793.47	1910.8
1797.48	1910.87	1798.72	1910.89	1798.91	1910.9	1800.09	1910.91	1801.09	1910.91
1801.17	1910.92	1801.79	1910.92	1802.44	1910.91	1804.17	1910.98	1804.54	1911
1809.06	1911	1810.08	1910.99	1822.37	1910.99	1823.58	1911	1969.4	1911
1969.77	1911.12	1970.05	1911.23	1973.07	1912	1976.88	1913	1977.69	1913.22
1978.88	1913.52	1979.03	1913.55	1980.51	1913.79	1980.66	1913.79	1981.17	1913.86
1981.71	1913.9	1982.57	1913.89	1983.15	1913.82	1983.84	1913.69	1984.11	1913.67
1984.54	1913.61	1985.07	1913.51	1986.69	1913.09	1987.08	1913	1987.37	1912.95
1989.44	1912.52	1991.92	1912.03	1992.03	1912	1993.09	1911.83	1994.82	1911.6
1997.01	1911	2003.39	1911	2004.24	1910.94	2004.83	1910.92	2008.98	1910.69
2010.07	1910.64	2011.11	1910.57	2020.84	1910.01	2021.23	1910	2023.98	1910
2024.81	1909.98	2026.43	1909.95	2048.57	1909.55	2058.05	1909.37	2059.03	1909.35
2064.03	1909.28	2071.03	1909.11	2074.11	1909	2128.91	1909	2134.73	1909.1
2141.81	1909.21	2176.86	1909.74	2187.63	1909.9	2189.18	1909.93	2189.47	1909.93
2194.06	1910	2280.18	1910	2281.19	1909.99	2302.39	1909.85	2305.13	1909.85
2314.83	1909.76	2358.88	1909.99	2359.31	1910	2373.6	1910	2396.9	1909.61
2397.48	1909.63	2399.08	1909.65	2411.03	1909.82	2411.16	1909.82	2421.74	1910
2437.04	1910	2446.24	1909.85	2446.36	1909.85	2460.72	1909.99	2498.03	1909.99
2507.59	1910	2508.62	1910	2510.58	1910.08	2513.95	1910.16	2516.65	1910.24
2541.05	1910.97	2542.91	1910.98	2544.61	1910.98	2544.78	1910.99	2549.61	1910.99
2549.75	1910.98	2551.58	1910.93	2560.05	1910.71	2560.71	1910.7	2561.37	1910.68
2564.49	1910.61	2568.67	1910.49	2569.18	1910.49	2571.22	1910.44	2572.31	1910.43
2574.05	1910.43	2579.12	1910.31	2587.24	1910.29	2596.36	1910.23	2609.09	1910.06
2609.41	1910.06	2612.21	1910.03	2615.54	1910	2617.28	1909.99	2631.14	1909.89
2631.23	1909.89	2642.32	1909.82	2642.55	1909.82	2645.22	1909.79	2652.43	1909.83
2658.41	1909.83	2661.99	1909.8	2664.21	1909.79	2665.2	1909.78	2678.16	1909.68
2688.25	1909.6	2689.15	1909.6	2710.18	1909.5	2725.26	1909.43	2726.85	1909.43
2773.56	1909.71	2819.86	1910	2876.48	1910	2898.29	1910.01	2953.27	1910.01
2958.22	1910	3030.28	1910	3039.72	1910.14	3040.03	1910.14	3041.06	1910.16
3041.96	1910.17	3049.71	1910.23	3112	1910.98	3113.43	1911	3259.75	1911
3270.87	1910.99	3275.86	1910.99	3279.93	1910.98	3317.25	1910.95	3327.6	1910.96
3337.7	1910.96	3376.43	1911	3671.64	1911	3676.3	1910.83	3677.83	1910.76
3690.11	1910.26	3695.36	1910.05	3696.37	1910	3699.49	1909.84	3700.69	1909.79
3711.51	1909.36	3718.57	1909.06	3719.01	1909.04	3720.58	1909	3748.66	1909
3750.69	1909.01	3755.45	1909.01	3755.97	1909.02	3761.52	1909.02	3763.01	1909.03
3766.53	1909.03	3767.16	1909.02	3772.37	1909.01	3780.78	1909.19	3781.8	1909.19
3784.01	1909.18	3786.26	1909.18	3787.39	1909.19	3788.58	1909.21	3789.04	1909.21
3798.54	1909.35	3798.63	1909.34	3801.36	1909.39	3804.52	1909.43	3817.41	1909.43
3830.72	1909.44	3832.09	1909.45	3832.81	1909.46	3839.19	1909.5	3846.86	1909.55
3861.75	1909.66	3868.8	1909.72	3870.97	1909.74	3881.53	1909.82	3894.98	1909.94
3899.33	1909.98	3900.97	1909.98	3901.8	1909.99	3902.02	1910	3906.95	1910
3908.93	1910.02	3917.42	1910	3920.75	1910	3932.88	1909.98	3934.07	1909.98
3954.47	1909.95	3975	1909.98	3975.25	1909.99	3976.33	1909.99	3994.26	1909.94
4010.39	1909.89	4028.15	1910	4097.68	1910	4115.8	1910.2	4116.25	1910.21
4126.9	1910.32	4164.78	1910.74	4167.91	1910.77	4169.97	1910.8	4176.64	1910.87
4179.84	1910.9	4180.43	1910.91	4185.09	1910.96	4185.37	1910.96	4188.22	1911
4189.75	1911	4190.45	1911.01	4191.08	1911.01	4194.7	1911.17	4206.56	1911.53
4209.74	1911.66	4211.06	1911.71	4212.58	1911.78	4213.34	1911.81	4213.97	1911.82
4219.15	1911.99	4219.38	1912	4219.52	1912.03	4225.81	1913	4230.73	1913.35
4232.02	1913.42	4232.67	1913.46	4234.15	1913.52	4234.6	1913.55	4235.12	1913.57
4235.85	1913.58	4242.6	1913.99	4247.24	1913.99	4252.47	1914	4254.64	1914
4264.08	1914.49	4266.22	1914.71	4268.24	1914.93	4268.85	1915	4270.98	1915.73
4271.84	1916	4272.53	1916.18	4273.4	1916.39	4275.97	1917	4276.74	1917.16
4278.72	1917.52	4279.53	1917.66	4279.95	1917.71	4280.89	1917.84	4282.31	1918
4283.54	1918.12	4287.4	1918.45	4288.71	1918.55	4289.26	1918.6	4289.91	1918.7
4290.77	1918.86	4291.42	1919	4291.71	1919.09	4294.33	1920	4300.02	1920
4301.38	1919.44	4302.49	1919	4304.74	1918.03	4306.8	1917.31	4307.38	1917.12
4307.97	1916.97	4311.62	1916	4312.57	1915.68	4315.01	1915	4322.15	1914.6
4334.14	1914	4341.22	1913.64	4341.75	1913.6	4342.62	1913.55	4343.91	1913.49
4345.73	1913.39	4350.5	1913.14	4352.89	1913.03	4353.38	1913	4362.68	1913
4390.09	1913.01	4403.23	1913.01	4432.92	1913	4441.82	1913	4444.5	1913.02
4445.1	1913	4627.81	1913	4630.21	1912.99	4633.55	1912.99	4635.94	1912.98
4639.06	1912.98	4648.89	1912.96	4653.45	1912.95	4660.28	1912.96	4677.35	1913

4680.61	1913.78	4681.5	1914	4681.9	1914.13	4684.7	1915	4687.27	1915.75
4687.89	1916	4690.32	1917	4691.84	1917.61	4692.75	1918	4693.94	1918.48
4695.2	1919	4695.66	1919.23	4696.89	1920	4697.91	1920.77	4698.52	1921.21
4700.34	1922.55	4700.98	1923	4703.57	1923.79	4704.65	1924	4711.58	1924.96
4711.78	1925	4712.14	1925.01	4712.61	1925.07	4715.86	1925.46	4717.99	1925.67
4720.89	1926	4721.42	1926.02	4722.57	1926.02	4723.58	1926	4751.76	1926
4755.89	1926.29	4763.61	1927	4769.35	1927.35	4777.66	1928	4782.39	1928.31
4793.26	1929	4813.95	1929.87	4817.07	1930	4826.63	1931	4846.6	1931.88
4848.79	1932	4849.1	1932	4872.08	1932.72	4880.72	1933	4881.61	1933.01
4882.82	1933.01	4900.35	1933.49	4901.9	1933.53	4903.25	1933.57	4912.11	1933.84
4917.74	1934	4924.68	1934.19	4926.92	1934.24	4940.12	1934.6	4958.92	1935
4997.5	1935	5022.37	1934.71	5049.87	1934.39	5081.49	1934	5086.03	1933.73

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	5086.03	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	5086.03	89.96	89.96	89.96	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1912.89	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.12	Wt. n-Val.		0.040	
W.S. Elev (ft)	1912.77	Reach Len. (ft)	89.96	89.96	89.96
Crit W.S. (ft)		Flow Area (sq ft)		8174.86	
E.G. Slope (ft/ft)	0.001625	Area (sq ft)		8174.86	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3300.36	Top Width (ft)		3300.36	
Vel Total (ft/s)	2.74	Avg. Vel. (ft/s)		2.74	
Max Chl Dpth (ft)	3.77	Hydr. Depth (ft)		2.48	
Conv. Total (cfs)	555759.8	Conv. (cfs)		555759.8	
Length Wtd. (ft)	89.96	Wetted Per. (ft)		3301.97	
Min Ch El (ft)	1909.00	Shear (lb/sq ft)		0.25	
Alpha	1.00	Stream Power (lb/ft s)	5086.03	0.00	0.00
Frctn Loss (ft)	0.14	Cum Volume (acre-ft)		686.48	
C & E Loss (ft)	0.00	Cum SA (acres)		301.16	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -15882.6

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1916.86	50.72	1916.82	165.67	1916.75	167.96	1916.75	168.88	1916.74
182.08	1916.74	183.86	1916.73	197.68	1916.73	216.61	1916.71	218.2	1916.71
233.2	1916.7	238.66	1916.7	246.74	1916.69	263.45	1916.68	281.46	1916.67
312.07	1916.65	367.38	1916.61	396.8	1916.59	434.2	1916.57	451.36	1916.55
801.18	1916.32	802.36	1916.32	812	1916.31	814.49	1916.31	817.17	1916.3
821.19	1916.3	827.91	1916.29	838.39	1916.29	897.57	1916.23	915.11	1912.41
915.23	1912.39	930.65	1909.46	930.98	1909.39	931.18	1909.36	932.88	1909
974.24	1909	1038.42	1909.79	1057.71	1910	1060.39	1910.01	1062.99	1910.01
1066.3	1910.03	1070.75	1910.03	1078.82	1910.06	1080.6	1910.06	1095.29	1910.2
1156.57	1910.75	1161.62	1910.78	1182.81	1910.98	1182.95	1910.99	1184.49	1911
1274.15	1911	1289.4	1910.29	1295.78	1910	1309.58	1910	1319.82	1909.99
1330.89	1910	1343.28	1910	1357.85	1910.09	1390.35	1910.29	1441.55	1910.57
1463.34	1910.7	1469.57	1910.73	1469.96	1910.73	1483.14	1910.79	1487.26	1910.81
1490.68	1910.82	1519.54	1911	1558.24	1911	1564.52	1910.99	1573.97	1910.99
1587.66	1910.98	1602.85	1910.98	1629.48	1911	1669.37	1911	1669.53	1910.99
1669.85	1910.99	1673.71	1910.81	1680.5	1910.51	1681.26	1910.48	1684.78	1910.26
1685.16	1910.24	1689.05	1910	1691.34	1909.84	1704.48	1909	1767.91	1909
1768.4	1909.15	1771.14	1910	1773.28	1910.68	1774.41	1911	1777.46	1911.96
1777.59	1912	1779.92	1912.67	1780.54	1912.84	1781.76	1913.12	1781.88	1913.14
1782.37	1913.24	1782.78	1913.31	1783.86	1913.45	1785.74	1913.68	1786.36	1913.73
1787.07	1913.78	1787.55	1913.81	1788.08	1913.82	1788.44	1913.81	1788.65	1913.79
1788.87	1913.8	1789.05	1913.78	1789.24	1913.78	1789.42	1913.75	1789.87	1913.71
1790.08	1913.68	1790.87	1913.54	1792.31	1913.27	1792.62	1913.21	1793.61	1913
1794.59	1912.8	1794.96	1912.73	1797.11	1912.27	1798.11	1912	1799.86	1911.46
1801.05	1911.36	1801.87	1911.32	1808.89	1911.53	1815.35	1911.54	1818.24	1911.57
1819.15	1911.58	1820.62	1911.6	1821.4	1911.6	1822.21	1911.59	1823.3	1911.59
1823.82	1911.58	1832.24	1911.13	1832.55	1911.12	1832.92	1911.1	1834.61	1911
1877.69	1911	1877.84	1910.99	1882.01	1910.93	1909.48	1910.53	1910	1910.53
1910.09	1910.52	1911.74	1910.52	1912.27	1910.51	1913.24	1910.51	1930.26	1910.43
1943.84	1910.4	1959.69	1910.61	1988.27	1911	2001.25	1911	2002.14	1910.97
2012.35	1910.7	2019.16	1910.51	2037.9	1910	2038.14	1910	2038.49	1909.98
2039.09	1909.96	2043.4	1909.86	2081.22	1909.01	2081.67	1909	2143.97	1909
2146.14	1908.99	2146.75	1908.99	2165.62	1908.97	2169.18	1908.97	2173.04	1908.98
2179.41	1909	2194.79	1909.57	2206.96	1910	2262.51	1910	2277.1	1909.7
2308.78	1909.06	2310.61	1909	2510.64	1909	2513.23	1909.05	2514.4	1909.11
2519.3	1909.3	2529.58	1909.14	2530.18	1909.14	2537.95	1909	2564.63	1909
2574.43	1909.18	2577.3	1909.18	2580.08	1909.15	2581.93	1909.15	2583.41	1909.17

2585.76	1909.15	2585.99	1909.15	2586.22	1909.16	2586.93	1909.17	2594.4	1909.27
2594.67	1909.28	2595.18	1909.28	2598.84	1909.34	2599.13	1909.34	2601.2	1909.39
2602.37	1909.4	2603.71	1909.39	2604.4	1909.39	2610.28	1909.42	2618.61	1909.52
2620.96	1909.53	2627.35	1909.5	2634.6	1909.47	2635.72	1909.45	2642.16	1909.44
2643.21	1909.42	2643.78	1909.42	2644.35	1909.41	2645.74	1909.41	2646.28	1909.4
2646.8	1909.4	2647.53	1909.39	2648	1909.4	2648.95	1909.4	2653.72	1909.34
2654.86	1909.36	2655.87	1909.38	2656.29	1909.39	2659.44	1909.36	2662.23	1909.34
2662.79	1909.35	2663	1909.35	2663.4	1909.36	2683.44	1909.32	2712.25	1909.01
2714.64	1909	2815.49	1909	2824.21	1909.01	2825.39	1909.01	2833.61	1909
2882.02	1909	2888.87	1909.21	2894.56	1909.36	2895.25	1909.38	2902.11	1909.55
2902.32	1909.56	2902.52	1909.56	2902.9	1909.57	2920.17	1910	2962.1	1910.4
2964.14	1910.42	2994.69	1910.67	3007.6	1910.76	3008.69	1910.78	3010.86	1910.79
3019.6	1911	3256.9	1911	3354.07	1910.69	3360.62	1910.67	3420.47	1910.6
3421.92	1910.6	3428	1910.64	3434.88	1910.68	3435.46	1910.69	3439.16	1910.66
3441.14	1910.65	3443.31	1910.63	3447.77	1910.66	3448	1910.66	3450.37	1910.68
3454.72	1910.68	3456.84	1910.67	3465.83	1910.66	3466.32	1910.66	3469.79	1910.65
3470.05	1910.65	3504.29	1910.88	3521.25	1911	3678.29	1911	3698.63	1910.28
3702.99	1910.12	3706.53	1910	3736.57	1909.57	3757.31	1909.27	3776.69	1909
3784.12	1909	3810.66	1908.99	3831.14	1909	3912.51	1909	3916.8	1909.05
3920.65	1909.07	3936.94	1909.15	3938.94	1909.15	3939.89	1909.16	3940.95	1909.16
3945.45	1909.19	3951.97	1909.24	3956.46	1909.23	3960.57	1909.22	3975.15	1909.32
4011.39	1909.56	4012.24	1909.56	4012.5	1909.57	4013.4	1909.57	4015.12	1909.59
4015.41	1909.59	4023.58	1909.65	4033.62	1909.72	4040.25	1909.78	4044.72	1909.81
4047.17	1909.83	4047.64	1909.83	4065.96	1910	4084.02	1910	4089.01	1910.02
4090.02	1910.02	4090.33	1910.01	4090.92	1910.02	4091.11	1910.02	4093.69	1910.01
4098.02	1910.01	4102.5	1910.07	4103.96	1910.08	4105.43	1910.1	4106.98	1910.11
4107.17	1910.12	4109.75	1910.18	4117.53	1910.35	4128.67	1910.55	4138.81	1910.84
4144.17	1911	4147.32	1911.29	4150.91	1911.64	4155.27	1912	4164.12	1912.71
4168.04	1913	4168.35	1913.01	4169.57	1913.04	4169.64	1913.05	4173.93	1913.15
4179.12	1913.24	4183.37	1913.31	4183.82	1913.31	4184.53	1913.32	4192.09	1913.56
4205.08	1913.99	4205.92	1913.99	4206.11	1914	4216.7	1914	4221.56	1914.41
4222.09	1914.46	4225.27	1914.69	4228.34	1914.98	4229.09	1915	4229.26	1915
4232.98	1916	4233.07	1916.03	4235.84	1917	4236.95	1917.4	4239.83	1918.48
4241.22	1919	4241.44	1919.08	4242.2	1919.28	4242.7	1919.39	4242.84	1919.45
4243.02	1919.48	4244.83	1919.64	4245.78	1919.71	4246.13	1919.76	4246.51	1919.86
4246.92	1920	4248.12	1920.45	4249.66	1921	4253.4	1921.63	4253.86	1921.7
4255.93	1922	4260.31	1922.52	4262.94	1922.71	4266.72	1922.91	4268.05	1922.97
4268.43	1922.97	4269.32	1923	4270.5	1923	4271.22	1922.98	4272.17	1922.92
4272.28	1922.92	4273.19	1922.84	4273.94	1922.75	4274.54	1922.67	4278.61	1922
4279.89	1921.68	4282.58	1921	4282.72	1920.97	4283	1920.89	4284.12	1920.66
4285.38	1920.39	4286.24	1920.17	4286.83	1920	4287.09	1919.92	4287.34	1919.85
4288.17	1919.58	4289.04	1919.29	4289.9	1919	4291.08	1918.61	4292.9	1918
4295.89	1917	4295.9	1917	4298.41	1916.19	4299.01	1916	4300.48	1915.53
4301.38	1915.24	4302	1915.03	4302.08	1915	4304.68	1914	4305.2	1913.78
4305.32	1913.75	4305.5	1913.73	4311.85	1913	4413.11	1913	4413.34	1912.99
4419.96	1912.99	4421.47	1912.98	4436.11	1912.96	4437.1	1912.96	4453.51	1912.99
4457.33	1912.99	4465.09	1913	4572.58	1913	4580.55	1912.9	4592.48	1912.76
4592.51	1912.76	4610.67	1912.63	4624.17	1912.57	4625.54	1912.57	4626.01	1912.56
4637.87	1912.73	4644.84	1912.92	4656.48	1912.98	4658.58	1912.99	4661.39	1913
4661.84	1913.32	4662.78	1914	4664.34	1914.51	4666.07	1915	4667.04	1915.43
4668.33	1916	4671.28	1917.3	4672.86	1918	4674.56	1918.67	4675.39	1919
4676	1919.24	4677.78	1920	4679.29	1920.65	4680.12	1921	4682.28	1921.99
4682.3	1922	4683.8	1923	4684.51	1923.51	4685.25	1924	4686.58	1925
4686.6	1925	4689.81	1925.12	4702.58	1925.51	4712.46	1925.99	4712.84	1925.99
4715.86	1926	4731.62	1926.55	4736.43	1926.75	4742.31	1927	4742.38	1927
4745.63	1927.27	4746.92	1927.38	4747.86	1927.47	4755.3	1928	4762.35	1928.44
4770.1	1929	4782.93	1929.4	4801.78	1930	4805.23	1930.16	4806.86	1930.24
4811	1930.45	4813.98	1930.6	4815.87	1930.69	4821.78	1931	4830.76	1931.43
4842.51	1932	4848.6	1932.27	4865.51	1933	4878.06	1933.44	4896.7	1934
4897.83	1934.03	4898.49	1934.04	4899.98	1934.08	4935.68	1935	4990.5	1935
4991.48	1934.99	4992.31	1934.99	5024.78	1934.52	5046.5	1934.21	5059.86	1934.04

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	5059.86	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	5059.86	104.77	104.77	104.77	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1912.74	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.11	Wt. n-Val.		0.040	
W.S. Elev (ft)	1912.63	Reach Len. (ft)	104.77	104.77	104.77
Crit W.S. (ft)		Flow Area (sq ft)		8267.19	
E.G. Slope (ft/ft)	0.001535	Area (sq ft)		8267.19	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3253.48	Top Width (ft)		3253.48	
Vel Total (ft/s)	2.71	Avg. Vel. (ft/s)		2.71	
Max Chl Dpth (ft)	3.66	Hydr. Depth (ft)		2.54	
Conv. Total (cfs)	571710.8	Conv. (cfs)		571710.8	
Length Wtd. (ft)	104.77	Wetted Per. (ft)		3254.86	
Min Ch El (ft)	1908.97	Shear (lb/sq ft)		0.24	
Alpha	1.00	Stream Power (lb/ft s)	5059.86	0.00	0.00
Frctn Loss (ft)	0.16	Cum Volume (acre-ft)		669.50	
C & E Loss (ft)	0.00	Cum SA (acres)		294.39	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -15987.4

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1916.87	223.78	1916.28	238.64	1916.28	244.73	1916.27	254.34	1916.27
298.39	1916.24	304.36	1916.24	368.1	1916.2	373.79	1916.19	390.13	1916.19
411.93	1916.17	415.68	1916.17	425.92	1916.16	428.9	1916.16	470.16	1916.14
473.09	1916.14	480.01	1916.13	488.94	1916.13	634.87	1916.04	826	1915.92
839.96	1915.92	850.57	1915.91	855.66	1915.91	858.41	1915.9	873.23	1915.9
875.83	1915.89	878.12	1915.63	897.45	1913.41	913.32	1911.55	922.15	1908.77
933.64	1909	956.59	1909	965.59	1909.01	972.19	1909.01	993.48	1909
1011.24	1909	1081.94	1909.46	1083.45	1909.46	1096.38	1909.58	1097.94	1909.59
1120.72	1909.79	1121.24	1909.8	1141.08	1909.97	1145.57	1910.01	1236.66	1910.94
1242.64	1911	1352.2	1911	1355.31	1910.87	1360.38	1910.73	1368.41	1910.49
1383.95	1910.01	1384.51	1910	1494.41	1910	1496.33	1911	1498.31	1912
1500.73	1913	1501.67	1913.15	1503.27	1913.3	1505.49	1913.41	1506.37	1913.42
1511.38	1913.11	1512.12	1913	1514.07	1912	1515.01	1911.49	1516.86	1911
1520.36	1910	1528.4	1910	1544.17	1910.77	1548.5	1911	1561.88	1911.02
1570.88	1911.01	1575.23	1911	1576.4	1910.99	1580.26	1910.9	1589.07	1910.74
1594.29	1910.66	1608.02	1910.5	1614.27	1910.44	1617.69	1910.45	1620.89	1910.47
1650.16	1910.1	1657.73	1910	1691.75	1910.69	1701.12	1911	1706.21	1911.01
1713.02	1911.01	1719.48	1911	1725.69	1910.5	1728.44	1910.26	1730.88	1910
1733.12	1909.84	1735.29	1909.71	1736.85	1909.6	1744.03	1909.12	1745.76	1909
1747.17	1909	1757.73	1909.82	1760.27	1910	1761.84	1910.95	1763.72	1911.98
1763.9	1912.05	1767.09	1913	1767.98	1913.34	1771.3	1914.56	1775.05	1916
1777.96	1916.01	1780.88	1916	1781.07	1915.96	1786.7	1915.03	1794.59	1914.04
1795.09	1913.95	1797.93	1913	1800.42	1912.14	1803.63	1911	1809.43	1910.96
1814.28	1911	1816.94	1911	1827.79	1910.98	1847.31	1910.99	1856.75	1910.99
1862.73	1911	1872.01	1911	1874.26	1910.89	1876.3	1910.84	1891.93	1910.32
1900.84	1910.01	1905.13	1910	1923.97	1909.99	1941.05	1909.99	1952.61	1910
1959.33	1910	1960.08	1910.27	1963.93	1911	1965.49	1911.34	1965.84	1911.4
1966.85	1911.41	1968.79	1911.11	1976.2	1910.54	1978.41	1910	1985.11	1909.99
1991.94	1909.82	2001.34	1909.62	2015.69	1909.36	2030.55	1909	2047.4	1908.28
2049.6	1908.18	2054.14	1908	2071.59	1907.19	2073.7	1907.13	2075.19	1907.12
2082.01	1907.04	2083.1	1907.04	2083.34	1907.07	2088.86	1907.99	2091.01	1908
2091.93	1908.11	2094.08	1908.32	2095.52	1908.48	2096.59	1908.56	2097	1908.55
2099.93	1908.35	2101.34	1908.22	2103.4	1908	2109.38	1907.98	2111.14	1907.96
2113.96	1907.96	2118.58	1907.93	2121.76	1907.95	2134.58	1907.97	2136.42	1907.98
2143.5	1907.99	2145.66	1908	2148.31	1908.23	2149.58	1908.36	2163.18	1909
2163.63	1909.14	2164.09	1909.17	2165.17	1909.14	2170.93	1909.34	2171.54	1909.3
2173.3	1909	2207.59	1909	2231.64	1909.01	2238.87	1909.01	2241.51	1909.22
2246.18	1909.58	2249.39	1909.57	2252.55	1909.01	2323.34	1909.01	2340.78	1909.15
2342.53	1909.13	2343.3	1909.14	2354.28	1909.01	2357.09	1909.01	2361.36	1909
2364.57	1909	2381.76	1908	2442.72	1908	2449.36	1908.14	2463.83	1908.47
2467.47	1908.54	2468.49	1908.57	2479.2	1908.76	2490.27	1908.94	2494.63	1909
2524.34	1909	2558.3	1909.57	2570.31	1909.77	2592.5	1909.77	2599.42	1909.8
2610.43	1909.87	2613.84	1909.85	2629.65	1909.81	2632.32	1909.82	2636.8	1909.82
2644.93	1909.78	2652.4	1909.75	2655.85	1909.76	2658.93	1909.78	2659.83	1909.77
2662.95	1909.78	2663.7	1909.77	2671.79	1909.72	2684.92	1909.63	2687.05	1909.62
2692.18	1909.57	2709.8	1909.43	2716.37	1909.4	2725.69	1909.38	2736.07	1909.34
2738.38	1909.32	2740.01	1909.32	2747.42	1909.26	2750.47	1909.26	2769.53	1909.16
2811.91	1909.43	2813.02	1909.43	2827.73	1909.57	2846.9	1909.75	2871.83	1910
2872.07	1910	2877.63	1910.17	2877.98	1910.16	2913.07	1910.4	2988.42	1910.96
2998.05	1910.96	3004.51	1910.97	3009.07	1910.97	3012.91	1910.98	3017.38	1910.98
3040.51	1910.89	3043.22	1910.9	3045.46	1910.89	3049.66	1910.92	3059.18	1910.95
3062.22	1910.95	3065.7	1910.94	3085.43	1910.84	3105.47	1910.86	3152.3	1910.7
3167.65	1910.66	3185.44	1910.61	3188	1910.61	3188.31	1910.6	3214.42	1910.58
3242.11	1910.51	3264.09	1910.46	3282.73	1910.46	3287.26	1910.45	3340.08	1910.31
3428.31	1910.08	3432.08	1910.06	3445.51	1910	3446.81	1909.99	3469.65	1909.96
3475.12	1909.96	3475.96	1909.95	3480.13	1909.95	3497.14	1909.96	3501.59	1909.96
3516.6	1909.82	3528.65	1909.85	3531.49	1909.84	3535.13	1909.85	3549.85	1910
3587.16	1910	3595.43	1910.29	3598.91	1910.39	3611.86	1910.66	3613.08	1910.7
3629.32	1911	3649.25	1911	3656.59	1910.92	3680.39	1910.62	3693.39	1910.46
3706.76	1910.31	3709.4	1910.27	3728.18	1910	3731.79	1909.91	3733.76	1909.9
3741.89	1909.74	3745.82	1909.71	3747.89	1909.66	3748.87	1909.66	3751.23	1909.61
3779.52	1909.3	3783.99	1909.26	3806.75	1909.01	3816.51	1909	3818.34	1908.99
3836.37	1908.98	3848.25	1908.96	3865.03	1908.98	3879.05	1909	3959.64	1909
3997.09	1909.53	4013.57	1909.66	4041.32	1909.89	4047.88	1909.94	4050.91	1909.97
4054.84	1910	4057.53	1910	4058.18	1910.02	4069.03	1910.11	4070.59	1910.2
4071.37	1910.22	4073.08	1910.35	4074.11	1910.4	4080	1911	4089.41	1911.91
4094.17	1912.32	4100.83	1912.86	4102.06	1913	4106.46	1913.62	4109.25	1914
4112.91	1915	4117.88	1916.28	4118.74	1916.34	4121.79	1915.61	4124.62	1915
4128.08	1914.24	4130.8	1913.65	4134.33	1913	4135.98	1912.99	4137.35	1912.82
4144.11	1912.08	4144.99	1912.07	4146.02	1912.17	4146.48	1912.19	4148.71	1912.56
4149.38	1912.63	4151.28	1912.99	4151.49	1913.01	4152.95	1913.27	4153.36	1913.29
4155.73	1913.58	4157.8	1913.64	4160.02	1913.66	4161.4	1913.62	4162.17	1913.66
4162.74	1913.62	4165.21	1913.59	4167.02	1913.48	4171.56	1913.13	4171.96	1913.13
4175.33	1913.01	4178.78	1912.99	4180.53	1913	4182.18	1913.5	4183.91	1914
4185.45	1914.47	4186.7	1914.8	4187.38	1915.01	4190.3	1916	4191.48	1916.41
4192.45	1916.47	4196.56	1917	4197.99	1917.99	4199.62	1918.79	4200.42	1919.16

4201.15	1919.45	4201.81	1919.58	4203	1919.59	4203.35	1919.65	4204.52	1919.63
4204.99	1920	4205.38	1920.4	4205.81	1920.45	4206.06	1920.54	4206.87	1920.44
4208.18	1919.99	4209.92	1919.16	4210.25	1919.07	4211.63	1918.79	4212.31	1918.58
4213.75	1918	4219.41	1918	4220.34	1918.31	4222.17	1919	4223.52	1919.44
4225.03	1920	4226.36	1920.47	4227.8	1921	4229.5	1921.47	4231.06	1922
4233.16	1922.54	4243.71	1924.18	4248.21	1925	4250.16	1925	4257.28	1924
4263.83	1923.11	4264.96	1922.95	4269.44	1922	4270.75	1921.35	4272.08	1920.75
4276.12	1919	4279.01	1917.76	4281.65	1916.64	4285.46	1915	4287.82	1914
4289.65	1913.32	4290.4	1913	4412.17	1913	4424.6	1912.97	4432.35	1912.96
4434.5	1912.95	4453.24	1912.91	4459.19	1912.92	4462.31	1912.92	4487.61	1912.97
4499.83	1912.98	4503.61	1913	4552.18	1913	4559.17	1912.98	4563.66	1912.96
4616.58	1912.26	4616.73	1912.26	4631.11	1912.02	4632.47	1912	4648.67	1912
4650.05	1912.79	4652.45	1914	4654.34	1915	4655.12	1915.39	4657.55	1916.66
4660.09	1918	4660.58	1918.47	4661.67	1919.62	4662.06	1920	4664.52	1922.5
4664.75	1922.63	4667.57	1924	4670.03	1924.28	4673.4	1924.61	4675.05	1924.8
4677.01	1925	4688.13	1925.75	4689.54	1925.79	4689.91	1925.82	4697.13	1926
4698.4	1926.01	4700.26	1926.09	4701.11	1926.15	4704.86	1926.31	4707.02	1926.43
4713.99	1927	4727.42	1927.88	4729.44	1928	4735.18	1928.3	4745.75	1928.82
4749.18	1929	4767.46	1929.54	4783.58	1930	4788.89	1930.32	4795.1	1930.54
4796.72	1930.62	4802.8	1930.85	4812.67	1931.29	4828.95	1932	4839.28	1932.39
4851.62	1932.94	4854.36	1933.05	4879.57	1934	4891.16	1934.3	4918.34	1935
5001.37	1935	5017.12	1934.61	5034.67	1934.17	5041.72	1934	5046.59	1933.76

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	5046.59	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	5046.59	74.87	74.87	74.87	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1912.58	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.12	Wt. n-Val.		0.040	
W.S. Elev (ft)	1912.47	Reach Len. (ft)	74.87	74.87	74.87
Crit W.S. (ft)		Flow Area (sq ft)		8197.63	
E.G. Slope (ft/ft)	0.001545	Area (sq ft)		8197.63	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3198.61	Top Width (ft)		3198.61	
Vel Total (ft/s)	2.73	Avg. Vel. (ft/s)		2.73	
Max Chl Dpth (ft)	5.43	Hydr. Depth (ft)		2.56	
Conv. Total (cfs)	569884.8	Conv. (cfs)		569884.8	
Length Wtd. (ft)	74.87	Wetted Per. (ft)		3202.16	
Min Ch El (ft)	1907.04	Shear (lb/sq ft)		0.25	
Alpha	1.00	Stream Power (lb/ft s)	5046.59	0.00	0.00
Frctn Loss (ft)	0.11	Cum Volume (acre-ft)		649.70	
C & E Loss (ft)	0.00	Cum SA (acres)		286.63	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -16062.3

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1917.01	352.28	1916.09	364.85	1916.08	369.08	1916.08	375.96	1916.07
386.82	1916.07	436.58	1916.04	439.73	1916.04	443.31	1916.03	515.26	1915.99
521.68	1915.99	529.57	1915.98	540.11	1915.98	548.73	1915.97	551.54	1915.97
564.69	1915.96	568.92	1915.96	580.46	1915.95	583.82	1915.95	630.32	1915.92
641.41	1915.92	651.47	1915.91	815.67	1915.81	880.68	1915.77	913.18	1910.68
914.84	1910.34	915.93	1910.17	917.93	1909.91	923.49	1909.36	923.58	1909.34
927.47	1909	985.74	1909	1010.1	1908.99	1018.2	1908.99	1030.19	1908.98
1035.94	1908.99	1048.17	1908.99	1056.77	1909	1065.09	1909	1073.65	1909.07
1097.4	1909.28	1127.71	1909.53	1128.33	1909.53	1143.34	1909.66	1153.79	1909.72
1172.48	1909.85	1177.65	1909.89	1180.85	1909.91	1189.44	1909.95	1195.81	1910
1220.8	1910	1224.5	1910.03	1239.06	1910.21	1254.73	1910.46	1254.99	1910.46
1285.95	1910.85	1297.93	1911	1364.53	1911	1373.38	1910.81	1385.51	1910.57
1421.7	1910.06	1423.64	1910.04	1425.99	1910	1470.92	1910	1474.32	1910.66
1477.74	1911.31	1478.84	1911.53	1482.01	1912	1483.26	1912.2	1484.57	1912.26
1485.64	1912.22	1489.6	1912	1493.42	1911.68	1494.02	1911.65	1495.15	1911.65
1497.92	1911.58	1499.14	1911.47	1500.23	1911.29	1501.42	1911.12	1501.75	1911.12
1508.62	1910.89	1509.89	1910.67	1511.25	1910.34	1512.52	1910	1531.37	1910
1534.27	1909.99	1548.71	1909.99	1557.88	1909.73	1558.63	1909.73	1569.96	1909.63
1596.73	1909.37	1598.29	1909.36	1598.77	1909.34	1601.32	1909.32	1608.44	1909
1612.31	1909	1617.86	1909.12	1655.97	1910	1664.56	1910.24	1694.41	1910.97
1698.01	1911	1702.64	1911.32	1707.32	1911.24	1713.7	1911.01	1716.04	1911
1724.57	1911.66	1728.92	1912	1731.56	1912.15	1733.59	1912.21	1733.87	1912.19
1735.22	1912	1741.77	1911	1746.97	1910.21	1752.77	1909.36	1755.07	1909
1757.6	1909	1758.3	1908.99	1770.95	1908.19	1772.19	1908.13	1775.58	1908.07
1781.37	1908.74	1782.13	1908.82	1785.32	1908.94	1786.23	1908.99	1788.28	1908.98
1789.61	1908.96	1791.06	1908.99	1795.49	1908.95	1799.17	1908.97	1800.58	1909
1810.66	1909.67	1812.5	1910	1815.78	1910.77	1817.76	1911.25	1820.93	1912

1822.37	1912.35	1825.16	1913	1827.11	1913.47	1829.2	1914	1846	1914
1848.14	1913.62	1851.8	1913	1852.46	1912.86	1853.09	1912.65	1854.92	1912
1856.31	1911.43	1859.68	1910	1860.64	1909.99	1865.75	1909.59	1868.66	1909.37
1874.88	1909	1894.04	1909	1898.2	1909.26	1898.52	1909.25	1902.05	1909.46
1902.39	1909.44	1903	1909.48	1917.13	1909.41	1927.84	1909.36	1937.45	1909.46
1967.62	1909.66	1983.36	1909.72	1984.59	1909.72	1989.31	1909.65	1990.74	1909.66
1995.96	1909.58	1998.67	1909.53	2003.68	1909.51	2010.87	1909.41	2016.67	1909.29
2025.31	1909.12	2027.05	1909.09	2031.32	1909	2035.51	1909	2036.43	1909.57
2036.99	1910	2039.03	1911.28	2039.59	1911.56	2040.59	1912	2041.44	1912.31
2043.57	1913	2045.57	1913	2049.26	1911.7	2055.31	1909.53	2056.84	1909
2058.16	1908.82	2059.37	1908.68	2062.85	1908.24	2065.12	1908	2065.65	1908
2068.24	1907.87	2074.59	1907.61	2077.93	1907.46	2079.66	1907.43	2085.47	1907
2086.58	1907	2091.77	1907.16	2093.5	1907.19	2097.43	1907.3	2113.06	1907.75
2115.45	1907.83	2120.93	1908	2137.89	1908	2151.39	1908.57	2154.7	1908.69
2157.46	1908.77	2160.58	1908.84	2162.75	1908.91	2168.22	1909	2182.78	1909
2184.86	1908.99	2186.31	1909	2278.32	1909	2281.26	1908.93	2291.89	1908.82
2300.73	1908.77	2301.7	1908.76	2307.59	1908.81	2309.76	1908.75	2312.55	1908.77
2317.4	1908.65	2327.3	1908.56	2330.39	1908.49	2333.28	1908.45	2342.28	1908
2403.49	1908	2404.28	1908.01	2419.92	1908.29	2428.85	1908.41	2437.48	1908.44
2445.65	1908.65	2447.83	1908.68	2449.77	1908.72	2454.47	1908.78	2454.81	1908.79
2463.29	1908.94	2464	1908.96	2466.92	1909	2489.55	1909	2497.13	1908.97
2501.13	1908.97	2501.89	1908.96	2507.5	1908.96	2512.59	1908.97	2516.74	1908.97
2519.91	1908.98	2525.99	1908.98	2543.82	1909	2549.85	1909	2584.39	1909.01
2588.69	1909.02	2597.85	1909.01	2612.35	1909.01	2625.38	1909	2669.74	1909
2673.29	1909.02	2686.16	1909.07	2699.2	1909.08	2710.74	1909	2799.44	1909
2809.13	1909.2	2827.75	1909.58	2829.67	1909.6	2832.05	1909.65	2856.16	1909.99
2862.79	1910	2880.04	1910.74	2882.2	1910.8	2890.16	1910.97	2891.31	1911
2921.65	1911	3025.71	1910.48	3061.97	1910.34	3062.64	1910.35	3076.55	1910.24
3080.44	1910.25	3083.74	1910.23	3086.83	1910.22	3098.05	1910.21	3104.41	1910.21
3106.7	1910.2	3106.84	1910.21	3109.51	1910.19	3110.7	1910.2	3162.49	1910.26
3207.25	1910.31	3224.03	1910.25	3236	1910.22	3237.43	1910.22	3262.8	1910.19
3289.82	1910.16	3297.75	1910.14	3303.98	1910.13	3310.59	1910.13	3357.35	1910
3477.76	1910	3479.05	1909.98	3487.59	1909.82	3527.45	1909.3	3537.27	1909.2
3541.55	1909.21	3556.22	1909.17	3559.13	1909.17	3572.41	1909.31	3576.45	1909.37
3583.13	1909.53	3585.38	1909.54	3589.49	1909.63	3594.05	1909.67	3595.95	1909.71
3597.69	1909.73	3599.73	1909.77	3607.32	1909.9	3612.36	1910	3621.84	1910.1
3641.4	1910.21	3657.51	1910.26	3679.94	1910.26	3697.17	1910.16	3716.76	1910
3718.79	1910	3722.2	1909.94	3724.4	1909.91	3745.68	1909.57	3759.85	1909.33
3776.33	1909.01	3777.83	1909	3785.5	1908.99	3813.85	1908.96	3839.57	1908.93
3848.23	1908.94	3852.97	1908.94	3876.83	1908.92	3886.34	1908.89	3894.86	1908.9
3898.62	1908.9	3908.33	1908.93	3909.53	1908.94	3912.31	1908.94	3913.1	1908.95
3916.6	1908.95	3917.5	1908.96	3921.3	1908.96	3924.06	1908.97	3929.87	1908.98
3931.89	1908.99	3934.31	1908.99	3938.27	1909	3949.66	1909	3962.2	1908.96
3968.01	1909	3977.27	1909	3987.52	1909.16	3990.86	1909.25	3994.85	1909.39
4011.19	1910	4015.83	1910.35	4027.25	1911	4032.83	1911.14	4046.64	1911.68
4053.69	1911.41	4061.37	1911	4078.82	1911	4081.14	1911.13	4082.69	1911.25
4085.53	1911.59	4086.29	1911.66	4088.91	1912	4089.94	1912.37	4091.98	1913
4093.3	1913.67	4094.89	1914.5	4096.67	1915.41	4099.09	1916.96	4099.75	1917.32
4101.53	1918.22	4102.38	1918.53	4103.02	1918.69	4103.84	1918.84	4104.53	1919
4115.86	1919	4121.43	1918.42	4123.45	1918.34	4124.26	1918.35	4126.92	1918.3
4129.19	1918.1	4130.75	1918	4140.87	1917.53	4141.96	1917.44	4145.92	1917
4147.55	1916.81	4152.6	1916.13	4157.23	1915.41	4159.8	1915	4162.93	1914.45
4165.59	1914	4167.09	1913.93	4169.39	1914	4173.36	1914.27	4177.76	1914.88
4178.51	1915	4180.01	1915.06	4196.14	1915.99	4199.7	1916	4206.24	1917
4207.43	1917.36	4209.62	1918	4211.28	1918.52	4212.91	1919	4215.52	1919.85
4216.07	1920	4221.26	1920	4222.3	1919.82	4224.41	1919.43	4225.61	1919.19
4227.81	1918.72	4231.72	1918	4237.47	1917.72	4243.7	1917.34	4249.12	1917
4251.95	1916.75	4259.02	1916	4264.36	1915.24	4265.97	1915	4273.18	1913.41
4274.97	1913	4415.86	1913	4453.43	1912.88	4466.26	1912.85	4490.46	1912.88
4506.04	1912.89	4540.35	1912.98	4543.35	1912.99	4543.46	1913	4584.2	1913
4592.68	1912.75	4594.43	1912.71	4607.4	1912.44	4628.71	1912	4632.17	1912
4637.29	1911.99	4642.27	1912	4644.21	1913	4647.05	1914.16	4649.13	1915
4650.64	1915.73	4651.9	1916.27	4653.31	1917	4656.33	1918.45	4657.58	1919
4660.1	1920	4662.48	1921	4664.8	1922	4668.19	1923	4672.89	1923.99
4676.09	1924.42	4680.48	1925	4685.23	1925.32	4685.71	1925.37	4694.67	1926
4700.57	1926.41	4707.95	1927	4712.96	1927.25	4725.34	1928	4730.32	1928.27
4743.12	1929	4751.34	1929.3	4766.57	1929.85	4771.01	1930	4790.08	1930.84
4792.95	1931	4798.35	1931.16	4819.1	1931.78	4826.56	1932	4858.88	1933
4861.52	1933.09	4866.3	1933.23	4891.45	1934	4895.13	1934.09	4925.67	1934.86
4930.7	1935	5005.82	1935	5009.95	1934.95	5011.29	1934.89	5013.07	1934.84
5019.06	1934.56	5020.4	1934.51	5025.74	1934.25	5031.29	1934	5047.18	1933.5

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	5047.18	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	5047.18	97.47	97.47	97.47	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1912.47	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.11	Wt. n-Val.		0.040	
W.S. Elev (ft)	1912.37	Reach Len. (ft)	97.47	97.47	97.47
Crit W.S. (ft)		Flow Area (sq ft)		8588.43	
E.G. Slope (ft/ft)	0.001314	Area (sq ft)		8588.43	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3182.36	Top Width (ft)		3182.36	

Vel Total (ft/s)	2.61	Avg. Vel. (ft/s)		2.61	
Max Chl Dpth (ft)	5.37	Hydr. Depth (ft)		2.70	
Conv. Total (cfs)	617933.2	Conv. (cfs)		617933.2	
Length Wtd. (ft)	97.47	Wetted Per. (ft)		3186.22	
Min Ch El (ft)	1907.00	Shear (lb/sq ft)		0.22	
Alpha	1.00	Stream Power (lb/ft s)	5047.18	0.00	0.00
Frctn Loss (ft)	0.13	Cum Volume (acre-ft)		635.27	
C & E Loss (ft)	0.00	Cum SA (acres)		281.15	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -16159.7

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1917.05	402.13	1916.01	415.61	1916	420.14	1916	427.53	1915.99
439.18	1915.98	492.67	1915.95	499.93	1915.95	577.54	1915.9	584.47	1915.89
598.32	1915.89	600.89	1915.88	613.74	1915.88	616.78	1915.87	631.99	1915.87
635.6	1915.86	648.11	1915.86	651.76	1915.85	702.24	1915.82	705.82	1915.82
714.3	1915.81	725.24	1915.81	878.23	1915.71	911.21	1910.52	912.84	1910.32
921.78	1909.39	925.57	1909	962.71	1909	974.15	1908.99	987.17	1908.99
991.33	1908.98	1015.03	1908.97	1018.66	1908.97	1023.79	1908.96	1032.43	1908.97
1076.31	1909	1091.83	1909.12	1122.08	1909.32	1141.07	1909.45	1154.34	1909.51
1163.56	1909.56	1166.82	1909.57	1195.33	1909.78	1225.87	1910	1235.15	1910
1271.09	1910.48	1276.95	1910.56	1281.76	1910.63	1283.83	1910.65	1309.51	1910.99
1310.75	1911	1352.34	1911	1359.77	1910.98	1368.12	1910.97	1385.74	1910.93
1390.28	1910.94	1393.17	1910.94	1406.23	1910.97	1411.82	1910.99	1418.57	1910.92
1423.04	1910.86	1434.79	1910.88	1447.37	1910.93	1451.69	1911	1453.22	1911
1461.93	1911.02	1468.17	1911.01	1470.8	1911.01	1476.19	1911.02	1482.49	1911.91
1483.52	1912.06	1484.97	1912.2	1485.7	1912.25	1487.56	1912.25	1492.23	1912.43
1493.14	1912.45	1498.35	1912.03	1499.21	1911.97	1500.56	1911.93	1502.9	1911.9
1503.94	1911.79	1504.7	1911.74	1505.92	1911.6	1508.09	1911.3	1509.42	1911.13
1509.99	1911.12	1510.82	1911.01	1512.5	1911.01	1513.17	1910.98	1513.56	1910.92
1514.22	1910.69	1515.78	1910	1516.55	1909.69	1517.19	1909.69	1518.82	1909.3
1519.35	1909.2	1527.27	1909	1565.02	1909.01	1590.07	1909.01	1609.76	1909
1614.75	1909	1617.87	1909.05	1663.15	1909.88	1667.98	1909.97	1670.01	1910
1670.94	1910	1681.1	1910.88	1691.71	1911.65	1692.81	1911.66	1693.62	1911.64
1696.57	1911.8	1697.06	1911.81	1701.68	1911.75	1708.15	1911.78	1715.18	1911.82
1715.45	1911.83	1723.75	1912	1730.58	1913	1734.73	1913.55	1737.97	1914
1742.44	1914.61	1744.22	1914.75	1747.17	1915	1748.58	1915	1749.9	1914.71
1752.77	1914	1755.84	1913.29	1758.64	1912.62	1760.03	1912.22	1760.88	1912
1762.5	1911.68	1767.05	1911	1769.28	1910.52	1771.97	1910	1775.29	1909.29
1776.72	1909	1781.56	1908	1783.78	1907.55	1790.14	1907.33	1793.5	1907.3
1803.22	1907.4	1808.91	1907.48	1818.28	1907.58	1824.57	1907.67	1829.38	1907.71
1833.75	1907.78	1841.22	1907.93	1843.74	1907.96	1850.84	1907.97	1857.88	1907.97
1863.58	1907.98	1865.23	1908	1866.38	1908.03	1870.09	1908.08	1871.47	1908.12
1906.77	1909	1912.81	1909.01	1924.24	1909.02	1956.18	1909.07	1965.24	1909.07
1989.88	1909.03	1992.88	1909.03	2000.73	1909.02	2004.57	1909.01	2009.28	1909.03
2015.23	1908.96	2025.07	1908.55	2025.76	1908.53	2035.18	1908	2048.24	1907.42
2049.56	1907.38	2056.54	1907.01	2059.82	1907	2064.03	1907	2066.41	1907.09
2068.81	1907.09	2070.74	1907.14	2073.56	1907.23	2078	1907.4	2083.16	1907.58
2086.86	1907.68	2093.47	1907.75	2097.56	1908	2104.76	1908.14	2106.72	1908.17
2110.97	1908.22	2125.2	1908.46	2131.87	1908.57	2141.82	1908.76	2147.61	1908.89
2152.73	1909	2228.41	1909	2231.65	1908.87	2249.82	1908.16	2255.88	1908
2263.98	1907.98	2273.52	1907.98	2290.37	1907.78	2294.1	1907.77	2312.82	1907.99
2348.79	1907.99	2369.88	1908	2374.17	1908.13	2387.35	1908.5	2389	1908.52
2391.74	1908.58	2397.83	1908.66	2402.53	1908.74	2405.94	1908.76	2426.13	1909
2516.25	1909	2523.12	1908.99	2529.99	1908.99	2540.76	1909	2545.51	1908.99
2607.99	1908.99	2634.68	1909	2752.76	1909	2782.27	1909.36	2782.51	1909.36
2801.89	1909.55	2802.47	1909.55	2810.01	1909.64	2810.33	1909.65	2818.3	1909.74
2823.61	1909.81	2827.92	1909.85	2838.53	1910	2853.74	1910	2858.64	1910.12
2859.61	1910.13	2875.49	1910.54	2893.52	1911	2909.97	1911	2921.12	1910.92
3046.62	1910.08	3047.72	1910.08	3058.38	1910	3486.28	1910	3508.5	1909.47
3516.67	1909.33	3523.15	1909.19	3537.26	1909	3605.59	1909	3607.36	1909.03
3618.26	1909.19	3623.19	1909.26	3627.32	1909.25	3632.33	1909.25	3679.82	1909.2
3715.17	1909.04	3725.51	1909	3755.65	1909	3773.25	1908.99	3791.19	1908.99
3802.94	1909	3854.5	1909	3859.28	1908.97	3862.33	1908.97	3862.45	1908.96
3868.39	1908.96	3882.96	1908.73	3887.3	1908.68	3908.02	1908.68	3927.37	1908.93
3937.69	1908.98	3940.45	1909	3941.75	1909.13	3947.8	1909.7	3950.59	1909.98
3952.46	1910.25	3958.32	1911	3963.98	1911.76	3971.02	1912.69	3981.82	1912.83
3992.11	1912.99	3995.03	1913	3998.74	1913	4003.27	1912.78	4021.29	1912
4024.3	1911.71	4032.46	1911	4043.42	1911	4044.8	1912.35	4045.5	1913
4047.07	1914.54	4047.52	1915	4048.58	1916	4049.77	1917	4051.24	1918
4054.25	1920	4057.3	1920	4060	1918.89	4062.23	1918	4064.69	1917
4068.7	1915.34	4070.53	1914.55	4073.31	1913.4	4073.65	1913.27	4074.55	1913
4077.01	1913	4077.35	1912.99	4081.85	1912.99	4087.22	1913	4088.5	1913.09
4089.49	1913.2	4092.29	1913.46	4093.05	1913.55	4095.75	1914	4097.04	1914.49
4097.51	1914.61	4099.5	1914.91	4100.45	1915.07	4101.29	1915.24	4104.14	1915.86
4104.84	1915.97	4105.99	1916.04	4108.96	1916.14	4112.99	1916.32	4114.17	1916.33
4115.26	1916.29	4117.49	1916.14	4119.03	1915.96	4121.8	1915.95	4122.92	1915.93
4125.08	1915.97	4128.59	1916.06	4129.16	1916.05	4131.84	1916.11	4132.9	1916

4139.02	1915.29	4141.62	1915	4143.74	1914.69	4147.96	1914.37	4152.84	1913.9
4153.29	1913.73	4153.79	1913	4154.34	1912.42	4154.55	1912	4154.88	1911.98
4156.59	1911.97	4156.87	1912	4157.43	1912.22	4159.73	1913	4162.19	1914
4164.75	1915	4168.69	1915.61	4171.04	1916	4176.77	1916.36	4177.71	1916.41
4183.79	1916.43	4189.99	1916.4	4190.69	1916.33	4192.83	1916.22	4194.63	1916.14
4198.88	1916	4203.52	1915.86	4204.1	1915.8	4205.2	1915.74	4206.75	1915.62
4216.46	1914.45	4220.77	1914	4224.28	1913.55	4226.28	1913.26	4228.22	1913
4230.49	1913	4238.14	1912.82	4239.24	1912.81	4254.57	1912.85	4260.54	1912.87
4268.23	1913	4287.18	1913	4291.26	1914	4294.22	1914.77	4295.05	1915
4298.41	1915.76	4299.66	1916	4303.65	1916	4304.42	1915.87	4307.07	1915.37
4308.86	1915	4310.01	1914.85	4316.23	1914	4317.73	1913.8	4323.22	1913
4344.74	1913	4346.47	1913.01	4353.09	1913.21	4360.21	1913.4	4370.42	1913.4
4380.75	1913.1	4386.79	1913	4389.73	1913	4420.09	1912.73	4429.94	1912.64
4444.32	1912.5	4479	1912.36	4506.21	1912.39	4510.33	1912.34	4515.07	1912.29
4518	1912.25	4519.89	1912.29	4522.72	1912.39	4524.1	1912.37	4531.77	1912.49
4546.9	1912.45	4565.94	1912.36	4571.36	1912.27	4573.15	1912.25	4578.7	1912.21
4588.48	1912	4602.2	1911.97	4609.38	1911.99	4614.69	1912	4617.05	1913
4618.84	1914	4619.76	1914.37	4621.23	1915	4623.24	1915.54	4625.39	1916
4626.92	1916.51	4628.64	1917	4630.8	1919.94	4631.01	1920.21	4631.85	1921
4632.29	1921.25	4633.1	1921.53	4634.41	1921.77	4635	1921.92	4637.56	1923
4638.07	1923.09	4639.39	1923.26	4639.95	1923.31	4642.19	1923.46	4642.72	1923.45
4644.33	1923.6	4648.34	1923.4	4649.53	1923.48	4651.09	1923.52	4652.36	1923.61
4655.53	1924	4661.23	1924.92	4663.3	1925.14	4666.05	1925.41	4667.33	1925.56
4672.21	1926	4680.13	1926.44	4690.86	1927	4694.88	1927.18	4709.01	1928
4715.92	1928.25	4719.69	1928.38	4722.8	1928.48	4727.65	1928.61	4730.67	1928.67
4732.66	1928.7	4738.38	1929	4746.11	1929.34	4759.29	1930	4765.08	1930.23
4786.93	1931	4791.29	1931.13	4803.25	1931.48	4816.02	1931.86	4820.6	1932
4837.16	1932.52	4850.5	1933	4867.06	1933.5	4876.89	1933.79	4884.14	1934
4894.31	1934.24	4894.66	1934.24	4903.63	1934.45	4903.95	1934.45	4908.45	1934.54
4908.92	1934.53	4927.1	1934.56	4946.59	1934.5	4957.64	1934.5	4966.1	1934.35
4967.84	1934.34	4981.34	1934.09	4983.23	1934.07	4986.36	1934	4987.29	1933.99
4997.35	1933.76	5007.46	1933.57	5009.29	1933.54	5013.05	1933.46	5020.25	1933.28

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	5020.25	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	5020.25	78.15	78.15	78.15	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1912.35	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.11	Wt. n-Val.		0.040	
W.S. Elev (ft)	1912.24	Reach Len. (ft)	78.15	78.15	78.15
Crit W.S. (ft)		Flow Area (sq ft)		8554.59	
E.G. Slope (ft/ft)	0.001282	Area (sq ft)		8554.59	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3095.16	Top Width (ft)		3095.16	
Vel Total (ft/s)	2.62	Avg. Vel. (ft/s)		2.62	
Max Chl Dpth (ft)	5.24	Hydr. Depth (ft)		2.76	
Conv. Total (cfs)	625536.6	Conv. (cfs)		625536.6	
Length Wtd. (ft)	78.15	Wetted Per. (ft)		3097.57	
Min Ch El (ft)	1907.00	Shear (lb/sq ft)		0.22	
Alpha	1.00	Stream Power (lb/ft s)	5020.25	0.00	0.00
Frctn Loss (ft)	0.11	Cum Volume (acre-ft)		616.09	
C & E Loss (ft)	0.00	Cum SA (acres)		274.12	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -16237.9

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1917.13	461.88	1915.93	476.11	1915.92	480.9	1915.92	488.7	1915.91
501.01	1915.91	557.55	1915.87	561.14	1915.87	565.23	1915.86	647.39	1915.81
654.75	1915.81	663.78	1915.8	672.14	1915.8	675.87	1915.79	689	1915.79
705.13	1915.78	708.96	1915.77	722.23	1915.77	726.1	1915.76	779.71	1915.73
783.52	1915.73	802.61	1915.71	804.15	1915.71	888.42	1915.66	906.26	1912.85
907.05	1912.75	908.31	1912.56	913.42	1912.02	914.52	1911.86	921.76	1911.13
921.85	1911.11	924.36	1910.85	925.54	1910.77	926.5	1910.73	930.42	1910.22
936.17	1908.85	942.33	1908.87	959.54	1908.87	960.54	1908.86	1025.28	1908.86
1095.46	1908.96	1102.33	1909	1109.63	1909	1122.38	1909.08	1122.77	1909.09
1141.58	1909.18	1161.53	1909.27	1174.72	1909.36	1202.82	1909.57	1205.96	1909.58
1208.4	1909.6	1217.58	1909.66	1232.34	1909.8	1253.26	1910	1255.33	1910.01
1279.75	1910.33	1298.07	1910.56	1319.47	1910.84	1329.98	1910.98	1331.96	1911
1351.78	1911	1353.74	1910.99	1357.21	1910.99	1367.66	1910.97	1370.8	1910.97
1373.37	1910.96	1382.17	1910.98	1387.24	1910.98	1390.82	1910.99	1393.86	1910.99
1408.85	1911	1438.2	1911	1448.06	1910.99	1455.52	1910.99	1474.11	1911
1476.35	1911	1486.66	1911.02	1495.53	1911.01	1498	1911.01	1498.75	1911
1503.28	1911	1506.6	1911.01	1509.03	1911.01	1515.11	1911	1517.29	1910.77

1525.19	1910	1526.4	1909.99	1533.93	1909.9	1537.65	1909.87	1543.39	1909.83
1577.08	1909	1633.87	1909	1636.89	1909.05	1662.41	1909.49	1662.71	1909.5
1672.37	1909.66	1691.82	1910	1691.96	1910.01	1712.29	1910.76	1715.36	1910.85
1719.32	1911	1742.2	1911.86	1743.6	1911.93	1745.58	1912	1746.2	1912
1748.65	1911.93	1758.72	1911.54	1763.07	1911.53	1765.18	1911.54	1766.69	1911.56
1769.13	1911.62	1772.14	1911.74	1776.58	1912	1778.68	1912.01	1780.81	1912
1781.71	1912.01	1790.41	1912.01	1790.89	1912	1793.12	1912	1793.57	1911.85
1794.22	1911.56	1800.05	1911	1803.16	1910.52	1809.63	1909.53	1812.96	1909.1
1813.57	1909	1814.92	1908.73	1819.78	1907.57	1821.9	1907	1869.11	1907
1872.1	1907.11	1896.13	1908	1899.29	1908.1	1921.11	1908.72	1928.92	1908.95
1930	1908.96	1935.56	1908.99	1938.84	1908.99	1940.42	1909	1944.05	1909
1965.46	1909.03	1988.4	1909	1996.77	1909	2002.56	1909.01	2013.29	1909.01
2013.48	1909	2016.93	1909	2023.02	1908.53	2029.74	1908	2030.59	1907.94
2033.41	1907.77	2047.39	1907	2073.89	1907	2078.23	1907.21	2079.96	1907.3
2081.38	1907.39	2085.08	1907.51	2085.41	1907.53	2089.46	1907.71	2096.66	1908.04
2110.56	1909	2243.97	1909	2244.51	1908.97	2251.22	1908.55	2252.87	1908.45
2258.73	1908.14	2261.65	1908	2266.82	1908	2271.03	1907.89	2272.19	1907.88
2274.85	1907.82	2275.48	1907.79	2278.41	1907.78	2281.85	1907.76	2293.83	1907.48
2305.54	1907.32	2311.65	1907.25	2312.87	1907.25	2323.79	1907.37	2360.18	1907.83
2368.02	1908	2368.23	1908	2377.11	1908.24	2387.84	1908.51	2390	1908.54
2396.57	1908.72	2405.49	1908.88	2408.08	1908.92	2415.15	1908.94	2415.98	1908.93
2418.97	1908.93	2452.27	1908.97	2474.53	1909	2598.76	1909	2626.65	1908.99
2678.37	1908.99	2729.47	1909	2750.75	1909	2780.58	1909.36	2845.65	1910
2876.2	1910	2912.36	1911	2916.06	1911	2929.49	1910.91	2933.13	1910.88
3005.25	1910.32	3043.88	1910	3209.34	1910	3214.91	1909.88	3219.6	1909.8
3220.87	1909.79	3229.41	1909.56	3229.83	1909.57	3234.97	1909.44	3236.73	1909.41
3238.05	1909.42	3272.66	1909.64	3330.82	1910	3525.85	1910	3530.18	1909.95
3531.47	1909.94	3549.73	1909.75	3550.53	1909.75	3554.25	1909.71	3559.05	1909.67
3567.18	1909.58	3589.44	1909.31	3610.15	1909.01	3654.65	1909.01	3656.44	1909.02
3684.42	1909.02	3686.74	1909.01	3698.14	1909.01	3718.09	1909	3758.87	1909
3765.66	1908.95	3768.39	1908.91	3773.03	1908.8	3776.22	1908.74	3779.3	1908.67
3789.03	1908.48	3798.21	1908.25	3815.19	1908.01	3815.25	1908	3844.53	1908
3849.79	1908.09	3853.97	1908.18	3865.14	1908.3	3873.64	1908.38	3874.08	1908.37
3880.11	1908.3	3889.96	1908.42	3916.65	1908.8	3924.13	1909	3925.14	1909
3928.78	1909.42	3929.39	1909.44	3931.94	1909.56	3936.47	1909.79	3938.3	1909.9
3939.25	1909.94	3941.88	1910	3943.54	1910.25	3948.19	1911	3951.71	1912
3953.28	1912.7	3954.04	1913	3954.36	1913.25	3957	1915.25	3959.05	1916.81
3959.61	1917.22	3960.94	1918.23	3962.37	1919.33	3964.58	1921	3969.95	1921
3973.77	1920.51	3976.24	1920.21	3977.75	1920.04	3981.21	1919.7	3982.28	1919.61
3984.34	1919.46	3985.52	1919.39	3987.51	1919.37	3989.04	1919.3	3990.81	1919.11
3991.05	1919	3992.91	1918	3993.7	1917.66	3995.35	1917	3995.62	1916.98
3996.57	1916.81	3997.94	1916.85	3998.61	1916.85	4000.25	1916.76	4001.15	1916.6
4002.1	1916.46	4003.72	1916.09	4004.4	1915.83	4004.97	1915.46	4005.74	1915
4009.7	1914.43	4010.85	1914.32	4012.01	1914	4015.2	1913.41	4016.54	1913.19
4017.86	1913	4022.12	1913	4026.63	1912.99	4037.83	1912.03	4038.23	1912.02
4044.91	1912.62	4046.54	1912.76	4047.92	1912.77	4056.39	1913	4074.84	1913
4076.81	1913.24	4081.54	1914	4085.98	1915.09	4090.36	1916.27	4093.09	1917
4096.48	1917.95	4097.31	1918.13	4098.71	1918.36	4099.96	1918.54	4100.97	1918.66
4102.36	1918.8	4103.84	1918.85	4104.78	1918.76	4110.09	1918	4113.08	1917.61
4117.51	1917	4119.29	1916.77	4123.84	1916	4128.57	1915	4129.37	1914.82
4133.28	1914	4134.14	1913.81	4135.6	1913.52	4136.62	1913.3	4137.86	1913
4138.9	1912.72	4141.23	1912	4142.28	1911.64	4144.02	1911	4176.48	1911
4177.04	1911.29	4177.87	1912	4178.84	1912.54	4179.73	1913	4180.62	1913.49
4181.78	1914	4183.93	1915	4187.47	1915.73	4188.93	1916	4196.21	1916.81
4197.2	1916.89	4198.08	1916.93	4198.62	1916.93	4200.51	1916.64	4201.43	1916.52
4203.74	1916.15	4205.56	1915.88	4211.21	1915	4215.36	1914.37	4217.62	1914
4219.67	1913.7	4226.65	1913	4230.38	1912.7	4232.88	1912.48	4238.69	1912
4247.49	1911.59	4250.63	1911.54	4256.24	1911.38	4261	1911.33	4261.24	1911.32
4264.31	1911.3	4269.54	1911.24	4274.52	1911.28	4276.72	1911.29	4282.03	1911.48
4289.55	1911.83	4289.71	1911.83	4293.22	1912	4297.91	1912.65	4300.17	1913
4300.83	1913.14	4304.41	1914	4307.02	1914.7	4308.3	1915	4312.47	1916
4320.73	1916	4324.85	1915.27	4326.3	1915	4328.7	1914.66	4332.86	1914.02
4333.48	1913.78	4335.86	1913	4356.31	1913	4363.71	1914	4374.44	1914
4381.48	1913.21	4383.38	1913	4392.27	1912.96	4394.73	1912.96	4399.55	1912.94
4404.68	1912.93	4405.55	1912.94	4407.99	1912.93	4411.41	1912.95	4460.35	1912.51
4460.68	1912.51	4467.19	1912.43	4476.44	1912.31	4497.68	1912	4500.98	1911.99
4508.27	1911.98	4515.25	1911.96	4518.53	1911.96	4529.84	1911.97	4536.93	1911.97
4550.65	1912	4556.22	1912	4559.92	1912.01	4562.42	1912	4566.16	1912
4577.86	1911.69	4590.22	1911.65	4606.7	1911.92	4607.54	1912	4612.32	1912.91
4612.62	1913	4617.89	1914	4622.71	1914.88	4623.34	1915	4624.05	1915.28
4625.94	1916	4626.43	1916.73	4626.81	1917.01	4627.48	1917.32	4628.15	1917.53
4628.68	1917.74	4629.3	1918.06	4630.77	1918.91	4632.07	1919.61	4632.52	1919.79
4633.18	1920.13	4633.71	1920.27	4634.18	1920.3	4634.38	1920.46	4634.77	1920.63
4635.3	1920.63	4635.9	1920.8	4637.68	1920.83	4638.09	1920.99	4638.52	1921
4638.84	1921.06	4639.61	1921.13	4642.41	1921.62	4644.33	1921.98	4644.67	1922
4646.93	1922.53	4649.95	1923	4657.13	1924	4672.21	1924.89	4674.51	1925
4676.22	1925.03	4704.65	1926	4704.71	1926	4726.32	1927	4731.05	1927.41
4736.43	1928	4741.6	1928.36	4751.33	1929	4769.29	1929.8	4774.62	1930
4783.52	1930.32	4804.44	1931	4815.39	1931.43	4830.05	1932	4854.78	1932.68
4866.57	1933	4879.93	1933.36	4904.13	1934	4917.61	1934.02	4926.73	1934.04
4938.16	1934.04	4959.7	1934	4961.18	1934	4982.77	1933.64	5012.46	1933.24

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	5012.46	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	5012.46	59.93	59.93	59.93	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1912.24	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.11	Wt. n-Val.		0.040	
W.S. Elev (ft)	1912.13	Reach Len. (ft)	59.93	59.93	59.93
Crit W.S. (ft)		Flow Area (sq ft)		8403.24	
E.G. Slope (ft/ft)	0.001456	Area (sq ft)		8403.24	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3255.97	Top Width (ft)		3255.97	
Vel Total (ft/s)	2.67	Avg. Vel. (ft/s)		2.67	
Max Chl Dpth (ft)	5.13	Hydr. Depth (ft)		2.58	
Conv. Total (cfs)	587093.2	Conv. (cfs)		587093.2	
Length Wtd. (ft)	59.93	Wetted Per. (ft)		3258.06	
Min Ch El (ft)	1907.00	Shear (lb/sq ft)		0.23	
Alpha	1.00	Stream Power (lb/ft s)	5012.46	0.00	0.00
Frctn Loss (ft)	0.09	Cum Volume (acre-ft)		600.88	
C & E Loss (ft)	0.00	Cum SA (acres)		268.43	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -16297.8

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1917.17	498.87	1915.87	513.53	1915.86	518.46	1915.86	526.49	1915.85
539.17	1915.85	597.41	1915.81	601.11	1915.81	605.32	1915.8	689.92	1915.75
697.49	1915.75	706.79	1915.74	715.4	1915.74	719.23	1915.73	729.42	1915.73
732.74	1915.72	748.28	1915.71	753.29	1915.71	766.95	1915.7	770.93	1915.7
826.09	1915.67	827.08	1915.66	839.28	1915.66	851.24	1915.65	888.87	1915.63
896.86	1914.37	899.19	1914.02	901.85	1913.74	903.57	1913.49	907.65	1913.07
908.47	1912.97	910.28	1912.8	910.95	1912.77	919.49	1911.66	932.05	1908.66
945.45	1908.72	948.62	1908.71	956.63	1908.71	962.69	1908.72	963.6	1908.71
1019.62	1908.71	1077.99	1908.79	1110.09	1908.99	1121.99	1908.99	1127.58	1909
1135.13	1909	1147.78	1909.06	1152.95	1909.08	1165.52	1909.17	1171.52	1909.21
1172.38	1909.21	1190.67	1909.33	1209.47	1909.51	1225.9	1909.64	1230.24	1909.68
1237.18	1909.73	1237.78	1909.74	1268.22	1910	1277.49	1910.12	1286.15	1910.24
1288.13	1910.26	1310.46	1910.53	1320.63	1910.66	1322.28	1910.67	1332.03	1910.8
1332.67	1910.8	1359.91	1910.98	1365.45	1910.98	1366.01	1910.99	1377.05	1910.99
1385.97	1911	1460.93	1911	1468.83	1910.99	1476.29	1910.99	1477.95	1911
1484.12	1911	1504.06	1910.67	1506.12	1910.63	1523.15	1910.08	1525.09	1910.04
1525.72	1910	1543.59	1909.75	1554.99	1909.6	1556.86	1909.58	1566.12	1909.53
1582.65	1909.43	1600.08	1909	1641.52	1909	1642.99	1909.03	1660.28	1909.32
1669.78	1909.49	1676.47	1909.65	1683.33	1909.72	1688.17	1909.78	1691.06	1909.8
1706.93	1909.99	1708	1910	1723.11	1910.43	1723.72	1910.46	1729.51	1910.68
1732.36	1910.8	1733.38	1910.82	1738.23	1911	1740.69	1911.04	1742.05	1911.04
1745.01	1911	1751.82	1911	1754.56	1910.99	1757.58	1910.99	1762.12	1911
1804	1911	1812.09	1911.57	1814.67	1911.68	1817.33	1912	1821.91	1912.45
1823.31	1912.49	1824.65	1912.47	1825.81	1912.22	1826.64	1912	1828.29	1911.42
1828.89	1911.24	1829.77	1910.83	1831.64	1910.26	1832.21	1910.06	1833.4	1909.76
1835.66	1909	1837.29	1908.42	1838.57	1907.81	1840.86	1907	1876.28	1907
1893.64	1907.66	1901.9	1908	1918.9	1908.78	1920.57	1908.84	1926.95	1909
1934.18	1909	1937.88	1909.01	1942.74	1909.01	1966.91	1909.02	1979.74	1909.02
1986.53	1909.01	1994.12	1909.01	1998.46	1909	2011.83	1908.14	2013.82	1908
2015.45	1907.99	2018.59	1908	2022.53	1907.98	2028.76	1907.81	2034.36	1907.5
2038.47	1907.36	2039.95	1907.3	2044.54	1907	2048.31	1907	2051.46	1907.02
2058.07	1907.17	2068.82	1907.58	2076.77	1907.79	2079.92	1907.96	2086.15	1908.21
2097.57	1908.64	2101.88	1908.87	2104.09	1908.96	2104.72	1909	2241.82	1909
2243.67	1908.96	2245.23	1908.85	2247.89	1908.69	2250.93	1908.47	2251.67	1908.4
2257.42	1908	2266.28	1907.78	2271.61	1907.62	2282.11	1907.35	2288.37	1907.21
2291.96	1907.17	2303.68	1907.11	2317.38	1907.03	2318.42	1907.01	2320.77	1907.04
2323.29	1907.09	2363.26	1908	2367.41	1908.11	2395.75	1908.63	2403.95	1908.74
2415.25	1908.78	2423.88	1908.8	2427.8	1908.79	2431.52	1908.79	2459.73	1908.82
2490.72	1908.86	2495.2	1908.88	2496.86	1908.88	2517.22	1908.97	2522.52	1909
2604.01	1909	2639.35	1908.99	2663.82	1909	2748.1	1909	2750.23	1909.03
2786.18	1909.38	2849.69	1910	2883.94	1910	2901.29	1910.5	2908.33	1910.65
2911.2	1910.75	2919.29	1910.9	2922.23	1910.91	2947.98	1910.7	3021.87	1910.12
3036.29	1910	3189.03	1910	3199.4	1909.71	3204.33	1909.58	3206.17	1909.54
3210.21	1909.41	3217.5	1909.21	3226.8	1909	3243.5	1909	3267.3	1909.2
3271.85	1909.23	3275.36	1909.26	3294.88	1909.45	3304.31	1909.54	3309.23	1909.58
3313.67	1909.63	3314.42	1909.63	3319.53	1909.68	3327.77	1909.75	3348.92	1909.94
3351.69	1909.97	3356.98	1910	3536.94	1910	3543.78	1909.85	3546.25	1909.79
3550.56	1909.7	3552.61	1909.65	3557.82	1909.55	3569.26	1909.28	3573.72	1909.22
3576.29	1909.16	3594.72	1909	3595.18	1909	3612.8	1908.92	3614.87	1908.9
3621.09	1908.86	3649.29	1908.72	3670.79	1908.65	3671.3	1908.64	3673.83	1908.65
3677.99	1908.58	3684.58	1908.59	3688.76	1908.54	3694.93	1908.49	3699.06	1908.45
3707.09	1908.4	3712.9	1908.35	3715.63	1908.34	3721.88	1908.3	3734.09	1908.3
3758.22	1908.09	3767.1	1908.01	3778.23	1908	3803.09	1908	3818.84	1907.99
3856.93	1907.99	3879.13	1908	3880.1	1907.99	3886.13	1908	3890.49	1908.16
3907.14	1909	3910.47	1909.43	3911.36	1909.53	3915.91	1910	3920.03	1910.62
3921.55	1910.82	3922.75	1911	3924.13	1911.15	3928.93	1912	3929.6	1912.47

3931.28	1913.52	3935	1915.75	3937.04	1917	3940.37	1919	3941.99	1920
3945.84	1920	3948.62	1919.53	3951.55	1919	3956.42	1918.32	3961.75	1917.55
3964.12	1917.2	3965.62	1917	3968.85	1917	3970.06	1917.49	3971.46	1918
3974.04	1919	3975.72	1919.62	3976.62	1920	3978.41	1920.68	3979.17	1920.92
3979.74	1921.05	3981.97	1921.43	3986	1922.16	3987.29	1922.52	3987.63	1922.53
3988.53	1922.46	3993.52	1921.66	3994.13	1921.53	3996.19	1921	3999.04	1920.39
4000.97	1920	4001.98	1919.71	4003.71	1919	4006.23	1918	4006.98	1917.9
4009.19	1917.79	4011.04	1917.75	4012.68	1917.85	4014.98	1917.94	4017.56	1917.98
4018.91	1917.97	4022.06	1917.88	4023.39	1917.92	4033.83	1918.99	4034.96	1919
4036.12	1918.85	4037.94	1918.52	4040.75	1917.99	4042.14	1917.65	4043.45	1917.38
4045.67	1916.86	4047.34	1916.44	4049.85	1915.83	4053.2	1915	4054.67	1914.62
4060.59	1913	4092.07	1913	4094.49	1913.49	4096.55	1913.77	4098.46	1914
4100.47	1914.04	4101.88	1914.01	4102.61	1914.02	4103.13	1913.91	4106.67	1913.28
4110.25	1912.59	4113.2	1912	4116.56	1911.39	4118.54	1911	4126.97	1911
4127.99	1911.05	4133.55	1911.11	4135.22	1911.11	4137.9	1911.09	4144.96	1911.15
4151.24	1911	4157.01	1911.01	4159.32	1911.06	4165.65	1911.12	4166.85	1911.14
4170.29	1911.17	4192.88	1911.27	4214.81	1911.19	4215	1911.2	4223.41	1911
4237.75	1911	4237.79	1911.01	4247.28	1911.24	4249.3	1911.26	4256.51	1911.39
4267.61	1911.61	4278.42	1911.77	4278.79	1911.77	4287.58	1912	4310.71	1912
4311.83	1912.03	4316.45	1912.03	4319.98	1912	4333.69	1911.99	4339.15	1911.99
4346.42	1912	4365.08	1911.14	4367.12	1911.06	4372.32	1911	4374.56	1911
4375.81	1911.04	4387.62	1911.27	4395.01	1911.4	4397.12	1911.54	4398.22	1911.56
4401.79	1912	4406.88	1912.57	4408.16	1912.7	4409.71	1912.82	4411.19	1912.91
4412.6	1912.95	4415.34	1912.97	4420.15	1912.93	4426.01	1912.89	4428.28	1912.85
4431.28	1912.78	4432.61	1912.73	4433.42	1912.67	4435.75	1912.57	4440.89	1912.28
4444.41	1912	4451.19	1912	4455.15	1911.97	4468.55	1911.85	4469.14	1911.85
4482.58	1911.78	4488.12	1911.74	4489.07	1911.72	4503.7	1911.64	4536.21	1911.39
4538.77	1911.36	4574.11	1911	4584.38	1911	4588.01	1912	4591.48	1912.28
4593.96	1912.47	4600.38	1913	4601.34	1913.18	4603.97	1914	4605.58	1914.56
4607.92	1915.92	4610.5	1917	4612.44	1917.64	4613.9	1918.17	4616.4	1919
4617.26	1919.31	4620.11	1920.43	4621.63	1921	4624.22	1922	4625.85	1922.71
4626.63	1923	4627.3	1923.21	4628.69	1923.58	4629.78	1923.76	4630.28	1923.87
4639.02	1925	4641.71	1925.38	4642.82	1925.56	4644.53	1925.81	4646.74	1926.18
4647.52	1926.29	4649.71	1926.68	4651.31	1927	4662.32	1928	4668.22	1928.32
4668.54	1928.33	4674.89	1928.69	4675.06	1928.68	4692.51	1929	4702.25	1930
4707.93	1930	4719.38	1930.17	4724.71	1930.29	4726.6	1930.32	4738.99	1930.56
4752	1930.86	4755.02	1930.9	4757.12	1930.96	4759.19	1931	4764.18	1931.01
4772.45	1931.02	4778.91	1931.02	4789.75	1931.01	4793.71	1931	4812.39	1931
4828.91	1931.52	4842.56	1932	4858.62	1932.54	4862.04	1932.63	4862.8	1932.66
4870.88	1932.87	4875.22	1933	4879.21	1933.03	4890.68	1933.22	4893.42	1933.24
4894.6	1933.26	4896.78	1933.27	4901.34	1933.39	4905.1	1933.48	4934.03	1933.62
4951.05	1933.69	4960.3	1933.64	4965.31	1933.6	4966.3	1933.6	4973.16	1933.54

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	4973.16	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	4973.16	88.24	88.24	88.24	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1912.15	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.11	Wt. n-Val.		0.040	
W.S. Elev (ft)	1912.04	Reach Len. (ft)	88.24	88.24	88.24
Crit W.S. (ft)		Flow Area (sq ft)		8491.05	
E.G. Slope (ft/ft)	0.001512	Area (sq ft)		8491.05	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3437.48	Top Width (ft)		3437.48	
Vel Total (ft/s)	2.64	Avg. Vel. (ft/s)		2.64	
Max Chl Dpth (ft)	5.04	Hydr. Depth (ft)		2.47	
Conv. Total (cfs)	576139.4	Conv. (cfs)		576139.4	
Length Wtd. (ft)	88.24	Wetted Per. (ft)		3439.66	
Min Ch El (ft)	1907.00	Shear (lb/sq ft)		0.23	
Alpha	1.00	Stream Power (lb/ft s)	4973.16	0.00	0.00
Frctn Loss (ft)	0.13	Cum Volume (acre-ft)		589.26	
C & E Loss (ft)	0.00	Cum SA (acres)		263.82	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -16386.0

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1917.17	529.96	1915.79	545.25	1915.79	545.72	1915.78	558.76	1915.78
571.99	1915.77	632.71	1915.73	636.57	1915.73	640.95	1915.72	729.18	1915.67
737.08	1915.66	749.03	1915.66	752.83	1915.65	759.76	1915.65	770.38	1915.64
773.85	1915.64	790.06	1915.63	795.28	1915.63	809.53	1915.62	813.68	1915.62
871.23	1915.58	871.83	1915.56	886.7	1913.63	908.56	1908.41	931.91	1908.5
943.12	1908.5	949.64	1908.51	993.89	1908.51	1035.71	1908.57	1102.96	1908.98
1110.22	1908.98	1115.02	1908.99	1134.96	1908.99	1142.24	1909	1154.22	1909

1162.67	1909.06	1166.31	1909.09	1168.93	1909.12	1170.11	1909.12	1172.06	1909.14
1177.49	1909.19	1182.23	1909.23	1185.28	1909.26	1186.73	1909.27	1190.23	1909.31
1213.36	1909.5	1270.1	1910	1272.19	1910	1274.99	1910.04	1276.4	1910.05
1277.78	1910.08	1291.71	1910.26	1301.89	1910.39	1316.34	1910.48	1341.76	1910.68
1342.09	1910.68	1358.99	1910.84	1362.94	1910.88	1371.23	1910.95	1373.99	1910.98
1377.08	1911	1446.07	1911	1451.85	1910.92	1456.49	1910.86	1522.11	1910
1524.45	1909.98	1525.46	1909.98	1544.57	1909.57	1557	1909.34	1562.33	1909.24
1566.94	1909.18	1569.67	1909.14	1570.26	1909.14	1589.35	1909.03	1594.98	1909
1599.54	1909	1606.39	1908.82	1606.59	1908.82	1610.46	1908.76	1621.06	1908.72
1624.24	1908.73	1626.34	1908.73	1634.17	1908.77	1644.07	1908.92	1644.4	1908.92
1648.31	1909	1660.02	1909.13	1667.4	1909.18	1670.89	1909.22	1672.26	1909.24
1677.79	1909.3	1683.29	1909.38	1696.65	1909.59	1705.75	1909.58	1719.58	1909.34
1721	1909.18	1721.07	1909.18	1722.9	1909	1731.68	1909	1733.05	1909.09
1734.35	1909.2	1734.84	1909.25	1741.82	1910	1746.68	1910.22	1748.92	1910.4
1751.32	1910.55	1756.41	1911	1762.33	1911.52	1766.68	1911.63	1769.5	1911.69
1769.67	1911.68	1774.91	1911.98	1776.34	1912.08	1778.03	1912.18	1781.34	1912.41
1783.25	1912.53	1786.86	1912.63	1787.61	1912.72	1788	1912.73	1789.26	1912.82
1790.72	1913	1792.76	1913.31	1794.34	1913.45	1800.3	1913.96	1801.63	1914
1804.63	1914.01	1808.77	1914.01	1811.63	1914	1814.43	1913.41	1816.29	1913
1820.17	1912.2	1821.09	1912	1826	1910.98	1829.07	1910	1831.32	1909
1832.31	1908.54	1834.7	1907.46	1835.9	1907	1859.81	1907	1876.96	1907.66
1879.13	1907.74	1885.92	1908	1890.07	1908	1899.03	1908.28	1899.21	1908.29
1926.67	1909	1933.29	1909	1956.16	1909.01	1980.11	1909	1985.03	1909
2000.41	1908	2022.6	1907.31	2031.74	1907	2035.69	1907	2037.86	1907.1
2050.91	1907.57	2053.98	1907.69	2056.44	1907.77	2058.29	1907.85	2062.51	1908
2082.02	1908.79	2088.64	1909	2193.87	1909	2205.87	1908.65	2209.35	1908.56
2218.05	1908	2220.87	1907.88	2221.61	1907.84	2223.06	1907.79	2229.67	1907.49
2232.07	1907.42	2234.65	1907.38	2234.99	1907.36	2237.62	1907.26	2237.82	1907.26
2245.19	1907.19	2255.73	1907.01	2256.66	1907	2300.91	1907	2324	1907.53
2324.42	1907.53	2339.77	1908	2340.85	1908.01	2342.86	1908.04	2344.38	1908.04
2347.42	1908.06	2351.69	1908.06	2361.27	1908.23	2378.39	1908.46	2401.65	1908.54
2419.7	1908.58	2421.08	1908.58	2431.68	1908.56	2432.49	1908.56	2452.59	1908.58
2474.67	1908.62	2476.71	1908.62	2478.3	1908.63	2479.49	1908.63	2493.98	1908.69
2511.91	1908.78	2513.71	1908.79	2514.82	1908.79	2515.68	1908.8	2518.82	1908.81
2519.96	1908.82	2523.47	1908.83	2527.1	1908.85	2541.96	1908.91	2556.73	1909
2696.93	1909	2697.63	1909.01	2711.14	1909.07	2712.13	1909.07	2715.51	1909.09
2718.13	1909.09	2721.36	1909.12	2726.83	1909.16	2746.48	1909.28	2746.94	1909.29
2761.18	1909.37	2762.93	1909.39	2764.19	1909.39	2764.87	1909.4	2776.73	1909.47
2795.74	1909.6	2797.5	1909.61	2797.73	1909.62	2836.99	1910	2878.58	1910
2880.56	1910.07	2901.82	1910.48	2910.29	1910.63	2914.43	1910.65	2917.83	1910.68
2918.52	1910.68	3004.32	1910.01	3004.99	1910	3162.9	1910	3163.19	1909.99
3174.43	1909.73	3175.63	1909.71	3178.36	1909.63	3222.39	1909	3250.94	1909
3264.65	1909.12	3305.3	1909.47	3305.54	1909.47	3313.69	1909.52	3314.55	1909.52
3324.6	1909.57	3326.33	1909.59	3327.97	1909.59	3328.28	1909.6	3339.9	1909.64
3340.49	1909.64	3354	1909.69	3354.26	1909.7	3386.98	1910	3477.82	1910
3512.99	1909.22	3515.99	1909.17	3524.15	1909	3525.18	1909	3537.15	1908.92
3556.8	1908.81	3561.27	1908.79	3573.44	1908.73	3601.04	1908.56	3687.16	1908
3708.9	1908	3748.31	1907.63	3764.29	1907.49	3776.38	1907.38	3788	1907.25
3790.1	1907.24	3795.58	1907.24	3807.02	1907.05	3810.25	1907	3836.99	1907
3838.92	1907.04	3842.5	1907.06	3857.37	1907.91	3858.48	1907.96	3859.15	1908.04
3866.69	1909	3869.83	1909.41	3872.73	1909.77	3874.49	1910	3879.64	1911
3880.28	1911.13	3880.66	1911.18	3881.22	1911.3	3881.86	1911.38	3882.43	1911.48
3883.49	1911.69	3889.27	1913	3890.55	1913.26	3891.21	1913.28	3892.81	1913.39
3894.07	1913.44	3896.53	1913.28	3898.38	1913.24	3898.92	1913.2	3899.86	1913.22
3906.51	1913.42	3907.59	1913.49	3909.08	1913.56	3909.8	1913.56	3910.33	1913.61
3911.18	1913.61	3911.53	1913.57	3914.91	1913.55	3916.49	1913.44	3917.62	1913.39
3920.34	1913.33	3921.59	1913.33	3921.72	1913.34	3927.58	1913.59	3930.56	1913.76
3935.15	1914	3940.39	1914.3	3945.43	1914.6	3947.73	1914.75	3949.74	1914.87
3951.59	1915	3953.55	1915.02	3957.48	1915	3958.09	1915	3958.68	1914.97
3962.35	1914.74	3967.06	1914.41	3967.43	1914.39	3975.15	1914.09	3976.82	1914
3978.63	1913.97	3981.68	1914	3982.66	1914.13	3983.35	1914.2	3984.52	1914.27
3984.97	1914.28	3986.18	1914.28	3987.33	1914.25	3988.96	1914.15	3990.61	1914
3995.8	1913.59	4003.45	1913	4003.53	1912.99	4008.14	1912.7	4008.29	1912.71
4009.47	1912.68	4009.68	1912.7	4010.36	1912.69	4016.9	1912.64	4023.4	1912.69
4024.35	1912.72	4025.95	1912.75	4027.1	1912.76	4028.08	1912.8	4028.82	1912.81
4035.74	1913	4037.84	1912.99	4043.14	1912.99	4048.54	1912.98	4049.8	1912.97
4053.97	1912.98	4056.5	1912.98	4060.36	1913	4093.02	1913	4094.92	1912.9
4096.07	1912.83	4101.01	1912.55	4103.91	1912.38	4109.57	1912	4128.78	1911.15
4133	1911	4153.35	1911	4155.38	1911.07	4164.17	1911.44	4171.03	1911.72
4177.3	1912	4177.47	1912	4179.31	1912.16	4191.13	1913	4239.87	1913
4247.4	1912.99	4248.82	1912.98	4249.67	1912.99	4255.44	1912.99	4256.25	1913
4284.74	1913	4292.65	1912.18	4293.52	1912.08	4294.34	1912	4295.72	1912
4301.27	1911.98	4313.18	1911.94	4316.22	1911.94	4323.33	1911.9	4324.54	1911.9
4353.92	1911.43	4354.8	1911.41	4356.91	1911.41	4362.96	1911.28	4368.96	1911.06
4370.93	1911.06	4373.3	1911.03	4375.81	1911.01	4376.92	1911.01	4377.1	1911
4544.52	1911	4546.17	1911.38	4546.57	1911.49	4548.86	1912	4551.62	1912.63
4553.22	1913	4556.13	1913.64	4557.64	1914	4560.48	1914.65	4561.96	1915
4563.75	1915.67	4564.59	1916	4566.99	1917	4569	1917.87	4569.32	1918
4570.1	1918.36	4571.71	1919	4574.3	1920	4577.89	1921.33	4579.76	1922
4583.16	1923.19	4585.17	1923.85	4586.06	1924.13	4586.97	1924.39	4587.2	1924.47
4588.22	1924.75	4589.24	1925	4591.22	1925.7	4591.73	1926	4593.1	1926.69
4593.8	1927	4594	1927.02	4595.55	1927.66	4596.19	1927.89	4596.6	1928
4596.91	1928.01	4597.21	1928.12	4598.37	1928.31	4599.06	1928.46	4599.35	1928.54
4599.98	1928.64	4600.39	1928.74	4601.18	1929.01	4603.68	1930	4605.48	1930.01
4606.64	1930.01	4610.04	1930.02	4613.87	1930.02	4623.36	1930.23	4628.32	1930.31
4630.96	1930.36	4656.39	1931	4658.06	1931	4658.33	1930.99	4698.81	1930.28
4698.89	1930.28	4717	1930	4764.06	1930	4780.17	1930.46	4781.55	1930.51
4785.21	1930.61	4786.42	1930.65	4798.02	1931	4807.35	1931.37	4824.91	1932

4829.81	1932.11	4831.36	1932.14	4846.88	1932.47	4854.26	1932.57	4861.37	1932.7
4864.09	1932.73	4864.91	1932.73	4866.57	1932.76	4867.28	1932.76	4870.4	1932.81
4872.61	1932.84	4873.4	1932.84	4874.74	1932.86	4888.78	1933	4928.18	1933

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	4928.18	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	4928.18	103.96	103.96	103.96	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1912.02	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.11	Wt. n-Val.		0.040	
W.S. Elev (ft)	1911.91	Reach Len. (ft)	103.96	103.96	103.96
Crit W.S. (ft)		Flow Area (sq ft)		8456.55	
E.G. Slope (ft/ft)	0.001412	Area (sq ft)		8456.55	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3233.60	Top Width (ft)		3233.60	
Vel Total (ft/s)	2.65	Avg. Vel. (ft/s)		2.65	
Max Chl Dpth (ft)	4.91	Hydr. Depth (ft)		2.62	
Conv. Total (cfs)	596034.1	Conv. (cfs)		596034.1	
Length Wtd. (ft)	103.96	Wetted Per. (ft)		3235.78	
Min Ch El (ft)	1907.00	Shear (lb/sq ft)		0.23	
Alpha	1.00	Stream Power (lb/ft s)	4928.18	0.00	0.00
Frctn Loss (ft)	0.15	Cum Volume (acre-ft)		572.09	
C & E Loss (ft)	0.00	Cum SA (acres)		257.06	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -16490.0

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1917.22	575.87	1915.73	592.2	1915.72	597.04	1915.71	605.71	1915.71
619.41	1915.7	682.33	1915.66	686.33	1915.66	690.87	1915.65	782.29	1915.6
790.47	1915.59	800.53	1915.58	813.97	1915.58	824.98	1915.57	828.57	1915.57
845.37	1915.56	846.52	1915.55	850.78	1915.55	865.55	1915.54	874.01	1915.54
875.09	1915.4	905.27	1908.19	937.51	1908.32	945.13	1908.31	948.77	1908.31
957.78	1908.32	959.23	1908.32	961.45	1908.33	988.63	1908.33	1015.72	1908.37
1061.13	1908.64	1114.28	1908.99	1152.43	1908.99	1153.47	1909	1164.01	1909
1181.1	1909.15	1286.31	1909.99	1288.75	1910	1290.64	1910	1292.24	1910.02
1292.93	1910.02	1296.13	1910.05	1297.58	1910.07	1298.21	1910.07	1317.29	1910.27
1329.54	1910.4	1341.78	1910.52	1350.14	1910.59	1355.46	1910.63	1361.49	1910.67
1363.67	1910.69	1365.81	1910.7	1366.22	1910.71	1370.04	1910.74	1374.31	1910.77
1388.33	1910.85	1388.58	1910.85	1408.89	1910.95	1415.23	1910.98	1416.16	1910.99
1419	1910.99	1428.07	1910.98	1442.33	1910.96	1445.76	1910.95	1450.13	1910.92
1464.31	1910.83	1468.62	1910.79	1475.62	1910.73	1478.2	1910.71	1498.06	1910.52
1501.16	1910.5	1510.92	1910.4	1520.42	1910.32	1550.38	1910	1553.28	1910
1561.24	1909.78	1563.79	1909.72	1568.42	1909.6	1588.46	1909	1600.01	1908.55
1606.7	1908.33	1609.61	1908.23	1612.86	1908.13	1614.51	1908.1	1615.73	1908.06
1618.23	1908	1626.17	1908	1632.59	1908.02	1640.4	1908.02	1641.84	1908.03
1644.75	1908.06	1647.04	1908.1	1651.19	1908.2	1652.02	1908.21	1655.36	1908.3
1655.58	1908.3	1660.09	1908.39	1669.42	1908.62	1673.37	1908.72	1677.11	1908.8
1679.29	1908.83	1685.81	1909	1696.14	1909.05	1701.12	1909.06	1704.99	1909.09
1707.58	1909.09	1712.68	1909.08	1715.4	1909.1	1723.57	1909.04	1728.57	1909.01
1729.06	1909	1731.45	1908.99	1735.67	1908.98	1743.15	1909	1748.73	1909.62
1757.99	1910.68	1767.71	1911.77	1769.87	1912	1776.39	1912.99	1776.48	1913
1781.43	1913.79	1783.71	1914.16	1787.49	1914.72	1789.27	1915	1806.43	1915
1810.61	1914.99	1814.89	1915	1824.42	1915	1825.89	1914.57	1827.52	1914
1829.42	1913.38	1831.38	1912.67	1833.27	1912	1834.79	1911.45	1836.1	1911
1838.16	1910.17	1838.6	1910	1840.41	1909.18	1842.98	1908	1844.57	1907.21
1845.02	1907	1863.12	1907	1866.8	1907.01	1868.74	1907	1877.39	1907
1888.72	1907.42	1898.66	1907.8	1903.67	1908	1908.98	1908.14	1939.17	1909
1940.07	1909	1941.37	1909.06	1942.39	1909.12	1943.45	1909.17	1948.26	1909.46
1949.37	1909.46	1960.28	1909.6	1975.16	1909.27	1975.97	1909.27	1977.37	1909.25
1979.28	1909	1983.06	1908.52	1984.18	1908.36	1985.48	1908.2	1987.29	1908
1990.96	1907.84	1991.8	1907.8	1997.59	1907.5	1999.24	1907.44	2000.55	1907.4
2003.63	1907.37	2012.45	1907	2043.81	1907	2045.17	1907.04	2046.35	1907.09
2064.71	1908	2086.18	1908.8	2091.96	1909	2166.54	1909	2169.09	1908.87
2171.19	1908.77	2174.76	1908.61	2176.59	1908.55	2182.96	1908.37	2190.32	1908.19
2193.27	1908.09	2195.05	1908	2204.7	1907.39	2208.47	1907.16	2210.41	1907.09
2214.73	1907	2222.72	1907	2224.99	1907.01	2225.52	1907	2287.42	1907
2314.39	1907.35	2315.74	1907.37	2321.85	1907.45	2330.46	1907.62	2332.43	1907.64
2337.79	1907.73	2350.67	1908	2352.26	1908.02	2357	1908.05	2361.01	1908.05
2373.66	1908.22	2407.3	1908.34	2433.5	1908.39	2434.87	1908.39	2450.23	1908.37
2450.75	1908.36	2463.84	1908.38	2478.2	1908.4	2480.07	1908.4	2481.88	1908.41
2502.94	1908.5	2504.99	1908.52	2506.1	1908.52	2513.55	1908.56	2521.23	1908.59
2531.61	1908.64	2542.35	1908.7	2543.18	1908.71	2544.71	1908.71	2546.22	1908.72
2571.49	1909	2677.61	1909	2678.46	1909.01	2697.78	1909.17	2715.78	1909.29

2716.49	1909.29	2726.15	1909.33	2727.48	1909.34	2731.06	1909.34	2733.46	1909.35
2743.92	1909.37	2756.84	1909.46	2778.69	1909.63	2787.29	1909.69	2788.4	1909.7
2794.46	1909.73	2795.93	1909.74	2797.7	1909.76	2798.68	1909.76	2821.36	1909.9
2835.34	1910	2893.8	1910	2894.03	1910.01	2898.6	1910.01	2906.14	1910.15
2919.9	1910.4	2920.52	1910.4	2926.39	1910.44	2931.88	1910.48	2932.68	1910.48
2993.39	1910	3143.99	1910	3162.77	1909.86	3179.11	1909.73	3198.22	1909.59
3211.04	1909.49	3211.4	1909.49	3238.31	1909.28	3239.05	1909.28	3251.31	1909.19
3265.35	1909	3286.89	1909	3289.36	1909.02	3294.88	1909.07	3395.7	1910
3423.28	1910	3423.81	1909.99	3434.21	1909.85	3466.4	1909.43	3466.78	1909.42
3469.38	1909.42	3491.98	1909.22	3503.75	1909.06	3510.99	1909.05	3513.63	1909.04
3518.6	1909	3537.52	1908.83	3560.95	1908.64	3601.14	1908.3	3621.67	1908.15
3622.13	1908.15	3627.11	1908.1	3635.15	1908.04	3636.02	1908.03	3642.93	1908
3643.71	1908	3658.89	1907.91	3664.77	1907.87	3687.55	1907.73	3693.56	1907.68
3707.89	1907.6	3719.35	1907.54	3728.08	1907.46	3729.62	1907.45	3741.79	1907.33
3742.45	1907.33	3758.44	1907.17	3759.81	1907.16	3774.16	1907	3820.49	1907
3822.53	1907.24	3828.72	1908	3836.62	1908.96	3836.97	1909	3844.85	1909.83
3849.09	1910.29	3855.93	1911	3863.01	1911.4	3869.99	1912	3876.39	1912.75
3880.06	1913	3883.87	1914	3887.57	1915	3888.58	1915.26	3891.51	1916
3893.35	1916.48	3895.81	1917	3899.15	1917.4	3900.1	1917.43	3903	1917.46
3904.23	1917.42	3905.69	1917.36	3909.21	1917.18	3911.08	1917.2	3911.95	1917.15
3912.99	1917.13	3914.91	1917	3915.12	1916.97	3916.46	1916.7	3918.58	1916.35
3919.54	1916.16	3920.54	1915.99	3922.3	1915.64	3924.52	1915.18	3926.47	1914.84
3931.79	1914	3934.37	1913.59	3937.76	1913	3940.63	1912.54	3943.82	1912
3949.77	1911	3954.13	1910.97	3954.77	1910.97	3957.02	1910.95	3960.25	1910.93
3969.19	1910.86	3971.68	1910.88	3973.71	1910.89	3973.97	1910.9	3986.44	1910.93
3988.8	1911	3989.1	1911.32	3989.65	1911.76	3990	1912	3990.76	1912.37
3991.52	1912.72	3991.98	1912.91	3992.26	1913	3995.9	1913.65	3996.36	1914
3997.06	1914.46	3997.23	1914.6	3997.85	1915	3998.24	1915.02	3998.72	1915.11
3999.59	1915.19	4000.52	1915.15	4001.62	1915	4002.25	1914.79	4003.19	1914.62
4005.77	1914	4008.09	1913.39	4008.66	1913.28	4010.6	1913	4012.22	1912.53
4013.73	1912	4015.2	1911.46	4016.7	1911	4020.11	1910.99	4033.26	1910.99
4041.49	1911	4067.14	1911	4070.53	1910.99	4073.04	1911	4254.07	1911
4261.81	1911.01	4264.73	1911.01	4287.46	1911.38	4309.72	1911.75	4310.76	1911.77
4313.72	1911.72	4314.05	1911.72	4318.62	1911.65	4320.5	1911.63	4321.57	1911.61
4326.3	1911.49	4336.7	1911.13	4338.33	1911.06	4339.86	1911.03	4341.37	1911.01
4351.95	1911.07	4356.46	1911.05	4361.95	1911.03	4363.82	1911.01	4364.52	1911.02
4366.75	1910.98	4370.13	1910.87	4376.48	1910.65	4382.64	1910.44	4383.37	1910.42
4389.83	1910.18	4393.73	1910.13	4395.59	1910.11	4398.06	1910.11	4403.59	1910.15
4404.8	1910.17	4405.96	1910.16	4406.25	1910.17	4411.93	1910.29	4444.56	1911
4522.02	1911	4523.27	1911.02	4524.05	1911.02	4525.53	1911.04	4527.07	1911.05
4529.69	1911.01	4529.8	1911	4532.25	1911	4535.86	1911.46	4539.78	1912
4543.44	1912.54	4548.25	1913	4563.47	1913.97	4564.49	1914.08	4569.3	1914.69
4572.23	1915	4573.21	1915.18	4579.71	1916	4584.89	1917	4588.6	1917.75
4589.6	1918	4590.47	1918.86	4590.58	1919	4590.95	1919.34	4592.59	1921
4593.48	1922	4593.79	1922.3	4594.4	1923	4595.34	1924	4596.2	1924.76
4596.42	1925	4597.31	1925.9	4598.32	1927	4599.46	1928.15	4600.95	1929.74
4601.22	1930	4602.18	1931	4605.82	1931.02	4606.54	1931.03	4610.14	1931
4612.42	1931	4617.52	1930.99	4623.15	1930.99	4628.24	1930.89	4656.27	1930.33
4656.67	1930.33	4659.8	1930.23	4660.2	1930.23	4667.17	1930	4688.91	1929.6
4695.25	1929.49	4727.19	1929	4765.97	1929	4793.49	1929.55	4817.92	1930
4818.9	1930.03	4820.07	1930.05	4844.89	1930.68	4857.75	1931	4871.56	1931.3
4892.45	1931.78	4898.58	1931.91	4901.83	1932	4913	1932.14	4913.98	1932.15

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	4913.98	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	4913.98	145.78	145.78	145.78	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1911.87	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.11	Wt. n-Val.		0.040	
W.S. Elev (ft)	1911.76	Reach Len. (ft)	145.78	145.78	145.78
Crit W.S. (ft)		Flow Area (sq ft)		8463.49	
E.G. Slope (ft/ft)	0.001552	Area (sq ft)		8463.49	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3477.10	Top Width (ft)		3477.10	
Vel Total (ft/s)	2.65	Avg. Vel. (ft/s)		2.65	
Max Chl Dpth (ft)	4.76	Hydr. Depth (ft)		2.43	
Conv. Total (cfs)	568606.5	Conv. (cfs)		568606.5	
Length Wtd. (ft)	145.78	Wetted Per. (ft)		3479.84	
Min Ch El (ft)	1907.00	Shear (lb/sq ft)		0.24	
Alpha	1.00	Stream Power (lb/ft s)	4913.98	0.00	0.00
Frctn Loss (ft)	0.25	Cum Volume (acre-ft)		551.90	
C & E Loss (ft)	0.00	Cum SA (acres)		249.06	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -16635.8

INPUT

Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1917.29	635.98	1915.64	652.45	1915.63	657.99	1915.63	667.02	1915.62
681.26	1915.61	746.69	1915.57	755.57	1915.57	850.6	1915.51	859.1	1915.5
869.55	1915.49	881.11	1915.49	882.21	1913.76	887.87	1913.22	896.97	1910.17
902.72	1908.02	929.64	1908.02	948.56	1908.09	959.86	1908.08	971.85	1908.1
975.25	1908.11	977.36	1908.11	978.07	1908.12	986.67	1908.12	996.16	1908.13
1012.09	1908.23	1132.16	1909	1162.75	1909	1204.07	1909.23	1215.34	1909.31
1238.02	1909.46	1266.63	1909.67	1309.92	1910	1311.41	1910	1326.59	1910.14
1334.87	1910.2	1336.61	1910.22	1346.86	1910.3	1355.13	1910.37	1356.52	1910.38
1363.42	1910.42	1364.36	1910.42	1379.55	1910.51	1384.77	1910.56	1385.1	1910.56
1389.36	1910.6	1394.62	1910.66	1398.69	1910.69	1423.4	1910.79	1436.49	1910.84
1441.89	1910.82	1448.55	1910.8	1449.3	1910.79	1456.75	1910.78	1468.12	1910.76
1471.01	1910.76	1491.6	1910.63	1558.27	1910.21	1578.48	1910.03	1581.21	1910
1581.78	1910	1589.89	1909.7	1590.53	1909.68	1603.1	1909.24	1605.19	1909.16
1609.89	1909	1621.04	1908.52	1632.79	1908	1704.49	1908	1709.24	1908.09
1711.99	1908.1	1713.18	1908.13	1714.81	1908.14	1716.55	1908.19	1718.51	1908.27
1721.52	1908.38	1724.14	1908.49	1728.87	1908.73	1729.01	1908.73	1734.51	1908.98
1735.24	1908.98	1749.79	1908.96	1751	1908.96	1764.12	1909	1769.65	1909.56
1774.03	1910	1777.08	1910.32	1783.79	1911	1787.03	1911.35	1791.39	1911.76
1794.2	1912	1799.28	1912.56	1807.4	1913	1809.56	1913.21	1811.83	1913.45
1812.77	1913.6	1813.11	1913.62	1814.49	1913.77	1815.21	1913.8	1815.5	1913.79
1816.98	1913.67	1819.94	1913.46	1820.3	1913.44	1823.32	1913.35	1826.33	1913.09
1827.77	1913	1835.89	1913	1837.72	1913.1	1838.44	1913.13	1839.89	1913
1840.92	1912.75	1847.13	1910.89	1849.85	1910	1853.07	1908.7	1855.64	1907.64
1857.09	1907	1862.45	1907	1864.63	1907.33	1869.43	1908	1873.73	1908.99
1873.88	1909	1875.53	1909.19	1876.8	1909.3	1877.51	1909.31	1878.25	1909.35
1883.61	1909.01	1884.95	1908.99	1887.28	1908.99	1888.55	1908.98	1889.72	1908.94
1890.76	1908.89	1891.74	1908.79	1892.08	1908.71	1892.44	1908.56	1893.08	1908
1894.28	1907.6	1896.2	1907	1903.6	1907	1906.15	1907.34	1909.59	1907.77
1910.53	1907.87	1911.17	1907.91	1912.11	1908	1916.83	1908.03	1917.83	1908.05
1941.74	1908.68	1945.44	1908.79	1949.53	1908.89	1950.36	1908.92	1953.82	1909
1962.43	1909	1963.3	1909.23	1966.08	1910	1967.67	1910.43	1969.83	1911
1971.85	1911.54	1977.54	1913.04	1981.04	1914	1984.01	1914	1986.45	1913.28
1988.36	1912.73	1990.86	1912	1991.54	1911.81	1994.35	1910.98	1997.89	1910
1999.49	1909.53	2001.34	1909	2002.84	1908.56	2005.91	1907.52	2007.69	1907
2018.86	1906.99	2022.98	1906.99	2033.72	1907	2038.24	1907	2040.08	1907.07
2050.77	1907.45	2053.94	1907.57	2058.44	1907.73	2060.53	1907.8	2062.27	1907.85
2064.61	1907.94	2066.63	1908	2068.59	1908.07	2069.4	1908.09	2081.24	1908.44
2094.55	1908.84	2095.39	1908.86	2095.95	1908.89	2099.82	1909	2105.18	1909
2108.19	1908.93	2108.38	1908.93	2116.59	1908.86	2123.93	1908.83	2126.51	1908.79
2127.85	1908.75	2133.75	1908.77	2133.99	1908.76	2135.62	1908.76	2137.02	1908.74
2142.89	1908.53	2144.22	1908.5	2159.11	1908	2162.02	1907.83	2165.68	1907.65
2172.64	1907.32	2180.11	1907	2265.76	1907	2269.09	1907.06	2270.88	1907.08
2276.49	1907.13	2281.53	1907.17	2295.41	1907.23	2326.64	1907.39	2351.7	1907.66
2377.17	1907.96	2380.29	1908	2391.46	1908.01	2418.64	1908.11	2453.89	1908.18
2455.25	1908.18	2465.39	1908.17	2475.89	1908.15	2481.39	1908.15	2487.2	1908.16
2489.61	1908.16	2493.39	1908.18	2498.08	1908.2	2498.95	1908.21	2500.59	1908.21
2512.81	1908.28	2517.21	1908.3	2518.5	1908.3	2519.82	1908.31	2525.26	1908.33
2530.89	1908.37	2531.79	1908.37	2534.09	1908.39	2535.41	1908.39	2590.41	1909
2676.09	1909	2683.36	1909.07	2684.78	1909.08	2686.41	1909.1	2696.82	1909.24
2699.87	1909.25	2703.45	1909.28	2715.12	1909.4	2715.52	1909.4	2730.64	1909.53
2740.86	1909.59	2742.34	1909.6	2750.27	1909.63	2756.97	1909.63	2758.31	1909.64
2767.52	1909.65	2777.31	1909.68	2800.78	1909.84	2820.5	1909.99	2824.93	1910
2871.78	1910	2892.81	1910.01	2923.42	1910.01	2923.98	1910	2927.63	1910
2935.61	1910.15	2936.44	1910.15	2944.58	1910.21	2944.63	1910.2	2952.4	1910.26
2953.32	1910.26	2986.92	1910	3134.72	1910	3139.39	1909.97	3142.61	1909.97
3147.34	1909.94	3160.96	1909.66	3163.63	1909.66	3166.03	1909.65	3175.05	1909.56
3175.63	1909.56	3242	1909.01	3242.59	1909	3248.99	1909	3251.58	1909.01
3330.89	1909.01	3333.03	1909.03	3394.25	1909.59	3397.09	1909.59	3402.71	1909.62
3419.66	1909.47	3457.71	1909.01	3464.3	1909	3540.25	1909	3542.48	1908.96
3586.56	1908	3588.91	1908	3592.22	1907.92	3599.33	1907.77	3619.72	1907.75
3653.57	1907.61	3668.01	1907.53	3678.01	1907.47	3685.74	1907.43	3692.26	1907.4
3720.08	1907.22	3730.63	1907.15	3754.72	1907	3806.18	1907	3806.55	1907.03
3808.61	1907.48	3809.6	1907.8	3809.82	1907.85	3810.24	1908	3810.32	1908
3811.83	1908.32	3815.22	1909	3820.38	1910	3821.41	1910.24	3825.19	1911
3825.78	1912	3826.24	1912.97	3826.9	1914	3827.31	1914.6	3827.66	1915
3828.02	1915.2	3829.62	1916	3831.33	1916.63	3832.3	1917	3835.09	1918
3838.03	1919	3839.7	1919.63	3840.75	1920	3842.78	1920	3843.33	1919.93
3846.34	1919.41	3846.84	1919.31	3849.35	1919	3850.63	1918.89	3856.3	1918
3856.69	1917.95	3860.08	1917.23	3861.68	1916.92	3866.47	1916	3869.74	1915.23
3870.62	1915	3871.4	1914.72	3874.04	1913.71	3875.8	1913	3877.12	1912.56
3878.64	1912	3878.8	1912.01	3879.04	1912.12	3879.77	1912.11	3880.64	1912.14
3889.33	1913	3895.9	1913.13	3896.51	1913.13	3897.93	1913.25	3903.43	1913.91
3905.52	1913.96	3908.74	1913.95	3933.64	1913.3	3941.35	1913.12	3942.14	1913.09
3943.62	1913.07	3945.24	1913.01	3946.76	1913	3953.82	1912.68	3955.03	1912.62
3965.91	1911.82	3969.04	1911.64	3971.74	1911.46	3978.54	1911	3982.56	1910.6
3989.44	1910	4014.69	1909.98	4037.32	1909.98	4050.46	1909.99	4052.04	1909.99
4056.39	1910	4063.08	1910	4064.74	1910.4	4067.34	1911	4069.54	1911.5
4072.55	1911.93	4073.25	1912	4073.64	1912.02	4078.54	1912.2	4078.86	1912.22
4081.9	1912.3	4082.09	1912.3	4083.63	1912.37	4085.53	1912.37	4087.07	1912.35
4090.6	1912.2	4093.94	1912.02	4094.62	1912	4095.61	1911.91	4096.98	1911.76
4101.32	1911	4218.4	1911	4224.3	1910.75	4247.89	1910	4369	1910
4379.32	1910.22	4380.45	1910.23	4384.07	1910.29	4405.15	1910.99	4405.34	1911
4539.15	1911	4542.16	1911.44	4546.06	1912	4550.33	1912.4	4556.86	1913
4558.38	1913.34	4561.43	1914	4564.51	1914.66	4566.12	1915	4567.53	1915.29
4570.92	1916	4572.95	1916.44	4574.93	1917	4576.75	1917.53	4578.08	1918

4578.77	1918.46	4579.73	1919	4580.43	1921	4581.17	1923	4581.76	1924.43
4581.87	1924.55	4583.94	1925.99	4583.98	1926.01	4584.53	1926.6	4585.82	1928.25
4586.58	1929	4587.01	1929.31	4587.87	1930	4588.55	1930.5	4589.56	1931.13
4590.18	1931.36	4590.56	1931.47	4591.66	1931.69	4591.82	1931.66	4594.53	1931.85
4595.52	1931.89	4602.52	1931.73	4626.12	1931.52	4684.26	1931	4691.55	1931
4697.05	1931.07	4698.18	1931.06	4700.13	1931.06	4704.36	1931	4706.87	1931
4709.3	1930.98	4710.7	1930.99	4715.25	1930.89	4726.1	1930.74	4729.26	1930.7
4732.42	1930.65	4733.32	1930.63	4746.3	1930.36	4760.5	1930.03	4763.86	1930.02
4765.34	1930	4775.38	1929.7	4779.48	1929.59	4780.23	1929.59	4787.62	1929.4
4790.19	1929.35	4796.29	1929.34	4805.55	1929.23	4810.23	1929.17	4811.36	1929.16
4822.75	1929.17	4832.2	1929.19	4845.56	1929.24	4847.85	1929.27	4848.49	1929.27
4851.9	1929.31	4865.35	1929.5	4894.68	1929.98	4898.37	1929.98	4900.79	1930
4904.51	1930.15	4908.43	1930.33	4926.28	1931	4930.69	1931.29	4932.17	1931.35

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	4932.17	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	4932.17	194.81	194.81	194.81	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1911.62	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.12	Wt. n-Val.		0.040	
W.S. Elev (ft)	1911.50	Reach Len. (ft)	194.81	194.81	194.81
Crit W.S. (ft)		Flow Area (sq ft)		7958.31	
E.G. Slope (ft/ft)	0.001849	Area (sq ft)		7958.31	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3397.40	Top Width (ft)		3397.40	
Vel Total (ft/s)	2.81	Avg. Vel. (ft/s)		2.81	
Max Chl Dpth (ft)	4.51	Hydr. Depth (ft)		2.34	
Conv. Total (cfs)	520982.3	Conv. (cfs)		520982.3	
Length Wtd. (ft)	194.81	Wetted Per. (ft)		3401.90	
Min Ch El (ft)	1906.99	Shear (lb/sq ft)		0.27	
Alpha	1.00	Stream Power (lb/ft s)	4932.17	0.00	0.00
Frctn Loss (ft)	0.38	Cum Volume (acre-ft)		524.43	
C & E Loss (ft)	0.00	Cum SA (acres)		237.55	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -16830.6

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1917.33	759.26	1915.44	780.09	1915.42	787.12	1915.42	798.59	1915.41
816.75	1915.39	874.94	1915.35	876.71	1913.63	879.03	1913.32	879.59	1913.04
885.07	1907.99	895.07	1907.99	896.56	1908	1011.41	1908	1024.24	1908.11
1038.58	1908.17	1050.9	1908.23	1052.1	1908.23	1057.89	1908.29	1065.35	1908.38
1068.47	1908.41	1069.97	1908.43	1071.1	1908.44	1092.13	1908.66	1094.55	1908.68
1124.99	1909	1214.5	1909	1283.37	1909.36	1287.88	1909.41	1294.06	1909.49
1300.74	1909.59	1301.07	1909.59	1312.14	1909.77	1315.88	1909.83	1321.91	1909.94
1323.2	1909.96	1324.15	1909.97	1326.32	1910	1432.31	1910	1470.12	1910.13
1470.8	1910.12	1500.15	1910.01	1502.1	1910	1565.65	1910	1567.84	1910.64
1569.28	1911	1570.43	1911.28	1573.41	1912	1581.39	1914	1584.16	1914.01
1589.36	1914.01	1592.57	1914	1593.48	1914	1594.35	1913.99	1595.77	1913.76
1597.09	1913.58	1599.33	1913.52	1603.51	1913.21	1605.27	1913	1606.74	1912.7
1607.54	1912.55	1611.2	1912	1613.17	1911.71	1613.68	1911.63	1616.43	1911
1620.75	1910	1627.72	1910	1628.68	1910.19	1633.17	1911	1637.77	1911.95
1640.03	1912.3	1644.69	1913	1645.51	1913.12	1645.54	1913.11	1647.23	1913.02
1648.58	1913.03	1650.8	1913	1651.7	1912.87	1655.43	1912	1659.14	1911.15
1660.18	1910.92	1665.05	1910	1668.27	1909.39	1670.48	1909	1679.45	1909
1680.09	1909.22	1682.5	1910	1684.68	1910.67	1685.78	1911	1686.74	1911.3
1689.19	1912.05	1692.09	1913	1694.28	1913.68	1695.35	1914	1698.62	1915
1701.9	1916	1704.87	1916	1707.69	1915.13	1710.19	1914.4	1712.32	1913.8
1715.11	1913	1718.67	1911.99	1721.86	1911	1723.7	1910.49	1725.38	1910
1727.71	1909.35	1728.91	1909	1767.67	1909	1774.61	1908.3	1777.38	1908
1784.96	1907.88	1785.76	1907.87	1791.4	1907.79	1796.1	1907.72	1805.34	1907.63
1812.94	1907.89	1815.66	1907.99	1816.12	1908	1830.45	1908	1832	1908.38
1837.07	1909.59	1838.8	1910	1841.47	1910.08	1841.89	1910.12	1845.01	1910.3
1849.88	1910.22	1851.59	1910.18	1851.73	1910.17	1853.49	1910.12	1853.64	1910.11
1856.4	1910	1861.08	1910	1862.3	1909.99	1871.24	1909.99	1874.2	1910
1875.75	1910	1876.42	1910.04	1880.74	1910.19	1882.6	1910.16	1886.68	1910
1886.97	1910	1891.32	1909.6	1894.7	1909	1896.88	1908.64	1900.86	1908
1903.34	1907.59	1906.96	1907	1907.24	1906.99	1911.46	1906.61	1914.36	1906.36
1920.2	1906	1923.7	1905.79	1933.67	1905.93	1941.44	1905.87	1945.92	1905.87
1954.17	1905.86	1958.03	1905.84	1960.81	1905.85	1977.92	1905.87	1979.21	1905.87
1998.48	1905.96	2006.26	1905.96	2015.18	1905.99	2016.04	1905.99	2017.52	1906
2019.08	1906	2020.55	1906.05	2020.74	1906.05	2033.12	1906.39	2033.92	1906.4
2034.82	1906.39	2036.06	1906.35	2037.61	1906.37	2039.75	1906.37	2040.05	1906.39
2040.68	1906.38	2041.53	1906.43	2041.82	1906.42	2045.87	1906.4	2050.41	1906.56

2053.94	1906.62	2056.6	1906.66	2062.19	1906.74	2069.31	1906.85	2069.48	1906.85
2074.26	1907	2150.53	1907	2256.51	1907.95	2260.28	1907.99	2261.57	1908
2366.06	1908	2372.47	1908.05	2378.55	1908.1	2443.05	1908.5	2467.69	1908.66
2468	1908.66	2534.77	1908.93	2551.74	1909	2689.05	1909	2711.05	1909.18
2711.53	1909.19	2717.29	1909.19	2733.11	1909.22	2757.81	1909.3	2761.46	1909.32
2765.69	1909.33	2778.99	1909.4	2795.58	1909.47	2808.4	1909.53	2809.52	1909.54
2810.93	1909.54	2811.63	1909.55	2906.06	1909.99	2918.04	1909.99	2920.26	1910
2932.47	1910	2935.91	1910.01	2938.74	1910.03	2940.68	1910.03	2941.99	1910.04
2955.12	1910.09	2959.22	1910.08	2977.7	1910	2988.43	1909.49	2998.64	1909
3014.81	1909	3041.16	1908.99	3113	1908.99	3115.65	1909	3127.52	1909
3129.77	1908.99	3169.15	1908.99	3199.8	1909	3315.8	1909	3330.38	1908.84
3334.88	1908.8	3339.96	1908.76	3356.47	1908.6	3359.73	1908.57	3361.65	1908.55
3364.97	1908.52	3368.88	1908.48	3419.57	1908.02	3421.92	1908	3427.52	1908
3429.11	1907.97	3432.36	1907.9	3477.19	1907	3700.61	1907	3705.12	1907.4
3711.44	1908	3714.24	1908.25	3723.38	1909	3727.08	1909.33	3734.68	1910
3740.35	1910.6	3742.53	1910.74	3745.27	1910.99	3745.71	1911	3747.1	1911.31
3748.53	1911.47	3749.15	1911.58	3751.96	1911.93	3752.47	1911.99	3752.81	1912
3753.73	1912.33	3754.32	1912.58	3754.86	1912.69	3755.32	1912.73	3756.35	1912.99
3758.36	1912.99	3759.21	1912.98	3760.18	1912.99	3762.42	1913.19	3767.15	1913.58
3769.42	1913.66	3770.55	1913.68	3771.47	1913.67	3777.98	1913.89	3778.02	1913.9
3778.98	1913.98	3779.61	1913.98	3780.59	1914	3783.36	1914.12	3783.67	1914.14
3786.17	1914.26	3786.31	1914.28	3787.7	1914.35	3787.78	1914.36	3789.19	1914.44
3789.51	1914.47	3789.82	1914.48	3793.44	1914.81	3794.8	1914.94	3795.64	1914.94
3796.77	1914.96	3797.42	1915	3801.14	1915	3801.55	1914.95	3808.88	1914
3810.33	1913.82	3814.05	1913.39	3816.05	1913.17	3820.1	1912.71	3826.6	1912
3834.22	1911.19	3835.99	1911	3839.66	1910.61	3840.22	1910.54	3843.51	1910.19
3845.13	1910	3845.79	1910	3846.27	1910.09	3847.68	1910.34	3849.64	1910.64
3850.24	1910.74	3851.61	1911	3854.25	1911.62	3854.58	1911.69	3855.39	1911.83
3856.32	1911.94	3857.32	1912.02	3858.23	1912.08	3858.35	1912.08	3860.75	1912.17
3861.92	1912.18	3867.67	1912.21	3868.05	1912.2	3868.98	1912.15	3869.31	1912.11
3869.99	1912	3870.34	1911.93	3872.22	1911.51	3872.58	1911.4	3873.16	1911.24
3873.63	1911	3898.87	1911	3900.79	1911.08	3915.14	1911.79	3916.41	1911.85
3917.05	1911.89	3918.66	1911.97	3919.49	1912	3919.7	1912	3923.03	1913
3924.95	1913.59	3925.06	1913.64	3925.75	1913.85	3926.34	1914	3932.48	1914
3933.16	1913.95	3933.91	1913.87	3935.21	1913.71	3936.8	1913.46	3937.2	1913.39
3938.78	1913.09	3939.21	1913	3941.59	1912.46	3943.86	1912	3948.75	1911
3951.44	1910.41	3953.4	1910	3954.74	1909.98	3961.19	1909.96	3962.31	1909.95
3964.39	1909.96	3971.39	1909.85	3972.67	1909.85	3974.55	1909.87	3975.93	1909.87
3976.19	1909.86	3976.63	1909.87	3985.65	1910	3991.41	1910	4018.83	1909.56
4032.53	1909.35	4032.63	1909.35	4044.19	1909.25	4060.29	1909.1	4060.99	1909.09
4067.91	1909	4092.35	1909	4111.85	1909.02	4127.22	1909.06	4160.26	1909.07
4160.94	1909.06	4165.48	1909.01	4165.53	1909	4177.25	1909	4177.78	1909.01
4191.6	1909.01	4196.74	1909.02	4200.15	1909.02	4203.32	1909.03	4206.58	1909.03
4223.32	1909.44	4224.46	1909.46	4230.06	1909.48	4231.38	1909.5	4234.2	1909.52
4239.17	1909.58	4240.25	1909.59	4252.05	1909.94	4252.52	1909.95	4254.27	1909.95
4256.06	1909.97	4257.77	1909.97	4260.97	1909.99	4262.24	1909.99	4262.72	1910
4265.64	1910.13	4273.41	1911	4280.31	1911.94	4281.5	1911.96	4282.51	1911.97
4283.48	1911.94	4284.12	1911.91	4285.06	1911.93	4285.97	1911.91	4288.93	1911.83
4290.45	1911.81	4292.95	1911.76	4297.03	1911.58	4309.05	1911	4468.14	1911
4469.03	1911.1	4476.26	1912	4481.22	1912.49	4488.72	1913	4495.47	1914
4499.58	1914.76	4500.62	1915	4504.8	1916	4508.51	1916.9	4512.79	1917.93
4513.03	1918	4513.61	1918.99	4514.27	1920	4514.91	1921	4515.23	1921.51
4515.61	1922	4516.28	1923	4516.53	1923.4	4516.98	1924	4517.64	1925
4518.1	1925.67	4518.61	1926.43	4519.77	1927	4523.06	1927.72	4524.38	1928
4526.36	1928.41	4527.89	1928.64	4529.94	1929	4530.23	1929.01	4533.43	1929.43
4534.3	1929.55	4537.86	1930	4541.29	1930.41	4546.02	1931	4553.5	1932
4567.95	1932.53	4572.49	1932.7	4578.46	1932.91	4580.65	1933	4626.9	1933
4631.88	1932.84	4638.32	1932.6	4649.09	1932	4656.17	1931.8	4656.74	1931.8
4667.09	1931.58	4672.54	1931.46	4679.1	1931.32	4679.65	1931.3	4693.4	1931.03
4694.68	1931	4698.37	1930.9	4698.6	1930.89	4702.7	1930.78	4706.5	1930.67
4708.02	1930.63	4710.02	1930.57	4725.22	1930.12	4726.61	1930.07	4729.1	1930
4753.44	1930	4764.19	1929.99	4836.23	1929.99	4838.18	1930	4865.63	1930

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	4865.63	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	4865.63	160.97	160.97	160.97	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1911.24	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.13	Wt. n-Val.		0.040	
W.S. Elev (ft)	1911.11	Reach Len. (ft)	160.97	160.97	160.97
Crit W.S. (ft)		Flow Area (sq ft)		7628.79	
E.G. Slope (ft/ft)	0.002039	Area (sq ft)		7628.79	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3290.20	Top Width (ft)		3290.20	
Vel Total (ft/s)	2.94	Avg. Vel. (ft/s)		2.94	
Max Chl Dpth (ft)	5.31	Hydr. Depth (ft)		2.32	
Conv. Total (cfs)	496086.2	Conv. (cfs)		496086.2	
Length Wtd. (ft)	160.97	Wetted Per. (ft)		3293.87	
Min Ch El (ft)	1905.79	Shear (lb/sq ft)		0.29	
Alpha	1.00	Stream Power (lb/ft s)	4865.63	0.00	0.00
Frctn Loss (ft)	0.32	Cum Volume (acre-ft)		489.57	
C & E Loss (ft)	0.00	Cum SA (acres)		222.60	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -16991.6

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1917.38	842.65	1915.36	847.32	1915.35	864.63	1915.31	878.03	1915.28
878.62	1915.28	879.03	1914.9	888.87	1908	1003.66	1908	1019.32	1908.13
1059.16	1908.54	1102.74	1909	1266.58	1909	1269.55	1909.04	1309.34	1909.46
1319.65	1909.64	1319.93	1909.64	1334.29	1909.91	1337.82	1909.99	1339.73	1910
1364.68	1910.59	1365.25	1910.6	1367.06	1910.64	1372.78	1910.76	1373.27	1910.76
1378.54	1910.86	1380.84	1910.9	1382.01	1910.9	1382.6	1910.91	1383.68	1910.92
1388.44	1910.92	1394.32	1910.91	1394.4	1910.9	1411.91	1910.95	1426.17	1911
1441.04	1911	1453.23	1910.87	1455.38	1910.82	1459.89	1910.72	1460.94	1910.71
1470.12	1910.63	1470.52	1910.61	1471.4	1910.59	1484.28	1910	1489.86	1909.91
1490.86	1909.9	1545.47	1909.02	1547.52	1909.01	1550.31	1909.01	1552.27	1909
1560.1	1908.99	1564.25	1908.99	1567.53	1909	1570.69	1909	1584.77	1909.39
1585.28	1909.4	1598.79	1909.6	1606.86	1909.64	1611.27	1909.52	1613.33	1909.55
1614.94	1909.49	1617.3	1909.39	1618.18	1909.4	1619.13	1909.4	1620.1	1909.39
1628.32	1909	1701.38	1909	1708.87	1909.13	1714.16	1909.15	1718.19	1909.2
1720.64	1909.24	1720.86	1909.25	1725.29	1909.25	1725.78	1909.26	1748.51	1909.29
1754.18	1909.33	1780.71	1909	1817.24	1909	1821.44	1908.65	1828.94	1908
1830.93	1907.83	1839.98	1907	1845.11	1906.57	1845.48	1906.54	1846.55	1906.47
1851.15	1906	1860.6	1905.03	1860.9	1905	1895.8	1905	1905.99	1905.58
1912.62	1905.98	1912.76	1905.99	1913.56	1906	1915.03	1906.08	1920.08	1906.36
1930.57	1906.99	1931.73	1907	2009.57	1907	2055.41	1907.63	2074.66	1907.89
2075.88	1907.86	2076.51	1907.88	2084.09	1908	2086.43	1908.13	2086.69	1908.16
2087.17	1908.19	2087.89	1908.22	2088.82	1908.27	2097.14	1908.7	2099.9	1908.76
2101.72	1908.77	2101.98	1908.78	2103.08	1908.78	2103.82	1908.77	2105.1	1908.77
2106.41	1908.74	2107.16	1908.71	2107.66	1908.68	2112.58	1908.63	2115.42	1908.51
2116.54	1908.47	2125.54	1908	2129.26	1907.89	2129.65	1907.88	2154.55	1907.1
2157.49	1907.1	2159.64	1907.08	2161.39	1907.08	2165.31	1907.05	2167.64	1907.04
2169.86	1907.02	2172.72	1907.02	2173.21	1907.01	2174.44	1907.01	2174.64	1907
2240.32	1907	2261.05	1907.09	2301.46	1907.25	2302.84	1907.25	2302.94	1907.24
2308.24	1907.22	2314.69	1907.22	2315.97	1907.24	2336.68	1907.34	2404.2	1907.77
2405.19	1907.78	2431.58	1907.78	2431.66	1907.77	2432.08	1907.82	2432.29	1907.8
2432.74	1907.85	2432.85	1907.84	2433.25	1907.88	2433.35	1907.87	2433.67	1907.9
2433.75	1907.89	2434.26	1907.93	2435.13	1907.96	2436.07	1908	2554.97	1908
2555.19	1908.01	2556.57	1908.01	2558.4	1908.03	2559.18	1908.03	2619.48	1908.46
2642.76	1908.63	2654.98	1908.69	2656.94	1908.7	2657.64	1908.7	2663.45	1908.73
2664.16	1908.74	2666.55	1908.75	2670.52	1908.77	2673.73	1908.79	2673.99	1908.8
2681.92	1908.84	2686.83	1908.87	2688.03	1908.88	2690.28	1908.89	2713.79	1909
2969.89	1909	2988.7	1908.12	2990.38	1908.05	2991.68	1908	3040.1	1908
3054.03	1908.12	3054.15	1908.13	3067.61	1908.25	3109.56	1908.62	3143.46	1909
3144.82	1909	3154.46	1908.93	3154.72	1908.92	3155.26	1908.92	3183.77	1908.7
3295.16	1908.01	3306.33	1908.01	3317.09	1908	3319.79	1908	3320.21	1907.99
3329.32	1907.73	3330.07	1907.71	3344.87	1907.33	3357.44	1907.01	3361.68	1907
3617.63	1907	3628.08	1906.99	3639.18	1906.97	3653.03	1906.97	3672.47	1907
3680.93	1907.81	3683.19	1908	3688.02	1908.67	3690.43	1909	3691.14	1909.1
3698.83	1910	3702.66	1910.5	3708.25	1911.12	3708.51	1911.16	3710.09	1911.36
3711.16	1911.48	3712.44	1911.64	3715.32	1912.02	3718.91	1912.48	3723.06	1913
3723.12	1913	3724.18	1913.11	3726.12	1913.3	3727.61	1913.42	3728.38	1913.5
3729.5	1913.59	3730.5	1913.68	3731.83	1913.78	3733.64	1913.92	3734.79	1914
3737.57	1914.2	3738.35	1914.26	3742.66	1915	3749.55	1915	3753.25	1914.8
3753.68	1914.78	3754.94	1914.69	3758.43	1914.48	3758.85	1914.45	3762.87	1914
3767.04	1913.53	3771.1	1913.06	3771.66	1913	3775.78	1912.52	3780.33	1912
3785.27	1911.42	3788.73	1911	3803.15	1911	3805.45	1911.6	3807	1912
3807.61	1912.14	3810.64	1912.77	3811.77	1913	3816.59	1914	3819.94	1914.73
3821.27	1915	3822.14	1915	3823.51	1914.75	3827.57	1914	3831.67	1913.27
3833.17	1913	3834.91	1912.69	3839.54	1912	3845.83	1911.72	3845.97	1911.71
3846.9	1911.68	3850.45	1911.51	3857.46	1911.27	3862.95	1911.02	3865.18	1911.01
3865.78	1911	3874.82	1911	3880.98	1911.35	3883.33	1911.48	3892.32	1912
3896.22	1912.38	3898.27	1912.53	3899.57	1912.61	3904.05	1913	3906.84	1913.33
3912.87	1914	3914.23	1914.14	3915.63	1914.28	3916.87	1914.42	3920.06	1914.71
3920.47	1914.76	3921.47	1914.85	3922.67	1915	3923.75	1915.01	3927.31	1915.06
3929.11	1915.04	3931.21	1915.03	3933.14	1915	3940.17	1914.43	3945.62	1914
3949.85	1913.74	3950.7	1913.75	3950.87	1913.76	3955.65	1913.74	3962.76	1913.64
3966.99	1913.54	3968.61	1913.5	3970.53	1913.46	3979.52	1913.28	3983.68	1913.21
3988.37	1913	4003.64	1912.08	4004.82	1912	4005.36	1911.93	4010.82	1911
4011.01	1910.97	4016.88	1910	4021.98	1909.11	4022.64	1909	4028.57	1908.03
4029.32	1908.02	4030.03	1908.02	4031	1908.03	4037.64	1908.25	4039.9	1908.14
4052.92	1908.03	4053.76	1908.03	4056.42	1908.02	4057.19	1908.02	4059.59	1908
4074.15	1908	4098.25	1908.41	4099.88	1908.44	4101.04	1908.45	4126.28	1909
4160.07	1909	4160.62	1909.02	4162.8	1909.19	4165.59	1909.34	4166.87	1909.37
4167.67	1909.37	4168	1909.39	4169.51	1909.39	4171.07	1909.48	4171.44	1909.47
4173.24	1909.58	4173.93	1909.56	4174.26	1909.58	4174.52	1909.57	4187.66	1909.68
4207.61	1909.86	4209.65	1909.9	4211.87	1909.95	4215.89	1910.01	4216.32	1910.01
4220.78	1910.04	4221.32	1910.05	4232.53	1910.23	4232.87	1910.24	4233.65	1910.24
4239.42	1910.3	4244.57	1910.32	4245.16	1910.32	4246.1	1910.33	4247.63	1910.33
4255.85	1910.39	4258.19	1910.39	4260.84	1910.38	4266.17	1910.34	4272.31	1910.29
4272.73	1910.28	4280.83	1910.19	4281.66	1910.17	4282.48	1910.17	4283.51	1910.14

4283.97	1910.14	4293.96	1910.05	4297.92	1910.01	4298.75	1910	4323.58	1910
4325.33	1910.02	4327.26	1910.03	4331.49	1910.14	4351.71	1910.66	4362.77	1910.99
4362.93	1911	4393	1911	4395.2	1910.96	4409.6	1910.71	4425.65	1910.51
4425.69	1910.51	4430.23	1910.82	4431.19	1910.89	4433.03	1910.99	4433.35	1911
4445.88	1911	4446.61	1911.15	4450.96	1912	4457.32	1913	4462.03	1913.71
4464.2	1914	4466.34	1914.4	4469.37	1915	4470.83	1915.45	4472.74	1916
4474.64	1916.6	4475.94	1917	4478.2	1917.7	4479.18	1918	4481.66	1918.75
4482.46	1919	4485.65	1919.94	4489.12	1921	4491.51	1921.78	4492.29	1922
4492.87	1922.37	4493.48	1923	4493.77	1923.38	4494.4	1924	4495.3	1924.96
4495.38	1925.04	4496.26	1926	4497.46	1926.54	4498.07	1927	4500.36	1927.85
4500.78	1928	4501.52	1928.15	4505.79	1929	4507.62	1929.47	4509.44	1930
4515.88	1931	4521.25	1931.47	4522.81	1931.6	4526.06	1931.88	4527.55	1932
4527.67	1932	4532.27	1932.32	4536.16	1932.58	4537.69	1932.68	4538.29	1932.71
4540.53	1932.85	4541.6	1932.89	4542.84	1932.95	4543.98	1932.97	4544.63	1932.97
4546.25	1932.93	4561.76	1932.61	4569.92	1932.45	4581.96	1932.16	4584.51	1932.11
4588.43	1932	4606.23	1931.41	4606.88	1931.38	4608.64	1931.32	4613.64	1931.14
4617.59	1931	4627.03	1930.83	4630.21	1930.78	4630.67	1930.77	4645.92	1930.54
4646.66	1930.52	4647.47	1930.51	4656.34	1930.38	4656.97	1930.37	4657.58	1930.37
4661.87	1930.31	4665.27	1930.28	4667.91	1930.25	4670.02	1930.22	4684.84	1930.11
4685.19	1930.1	4695.52	1930.03	4698.12	1930.01	4698.89	1930	4719.21	1929.99
4722.23	1929.99	4730.31	1929.98	4742.85	1929.98	4752.16	1929.97	4772.28	1929.97
4799.46	1929.99	4804.6	1929.99	4810.33	1930	4811.59	1930.04	4817.96	1930.19
4842.92	1930.83	4850.55	1931	4851.21	1931	4856.56	1931.01	4860.24	1931.01

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	4860.24	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	4860.24	156.29	156.29	156.29	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1910.92	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.14	Wt. n-Val.		0.040	
W.S. Elev (ft)	1910.78	Reach Len. (ft)	156.29	156.29	156.29
Crit W.S. (ft)		Flow Area (sq ft)		7572.30	
E.G. Slope (ft/ft)	0.001934	Area (sq ft)		7572.30	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3105.72	Top Width (ft)		3105.72	
Vel Total (ft/s)	2.96	Avg. Vel. (ft/s)		2.96	
Max Chl Dpth (ft)	5.78	Hydr. Depth (ft)		2.44	
Conv. Total (cfs)	509372.6	Conv. (cfs)		509372.6	
Length Wtd. (ft)	156.29	Wetted Per. (ft)		3107.56	
Min Ch El (ft)	1905.00	Shear (lb/sq ft)		0.29	
Alpha	1.00	Stream Power (lb/ft s)	4860.24	0.00	0.00
Frctn Loss (ft)	0.33	Cum Volume (acre-ft)		461.48	
C & E Loss (ft)	0.00	Cum SA (acres)		210.78	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -17147.9

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1917.39	728	1915.69	732.06	1915.68	747.14	1915.64	758.8	1915.62
769.57	1915.59	780.8	1915.57	788.09	1915.55	789.36	1915.55	789.92	1915.54
791.86	1915.54	794.37	1915.53	798.28	1915.53	799.71	1915.52	801.45	1915.52
813.28	1915.49	815.16	1915.49	816.23	1915.48	817.83	1915.48	854	1915.39
864.12	1915.37	865.73	1915.37	865.99	1915.31	866.09	1915.31	868.28	1914.97
891.59	1907.8	913.15	1907.78	915.49	1907.77	930.12	1907.77	935.98	1907.76
943.24	1907.77	944.11	1907.77	969.16	1907.91	977.87	1907.89	990.02	1907.93
1002.91	1907.96	1012.3	1907.96	1016.42	1907.98	1019.48	1908	1045.36	1908.85
1050.93	1909	1237.75	1909	1242.74	1909.06	1267.92	1909.25	1274.52	1909.32
1280.53	1909.37	1310.79	1909.64	1319.05	1909.71	1319.62	1909.71	1333.7	1909.84
1334.03	1909.85	1345.09	1909.95	1345.89	1909.95	1351.63	1910	1356.37	1910.16
1358.21	1910.22	1370.73	1910.59	1372.95	1910.68	1374.59	1910.74	1375.81	1910.77
1377.17	1910.81	1379.36	1910.87	1383.07	1910.95	1386.24	1911	1393.26	1911
1394.36	1910.98	1402.46	1910.84	1404.45	1910.8	1405.02	1910.78	1416.67	1910.58
1419.82	1910.48	1426.13	1910.4	1435.22	1910.14	1440.09	1910	1441.65	1909.97
1442.42	1909.95	1444.99	1909.87	1448.43	1909.8	1462.37	1909.49	1463.62	1909.46
1478.33	1909.06	1478.93	1909.04	1480.48	1909	1481.81	1909	1483.7	1908.99
1501.77	1908.99	1511.32	1908.98	1513.56	1908.98	1526.13	1908.97	1532.81	1908.97
1546.66	1908.95	1565.51	1908.97	1580.99	1908.98	1581.08	1908.99	1581.48	1908.98
1583.54	1908.99	1590.34	1908.99	1592.55	1909	1596.25	1909	1596.8	1908.99
1609.3	1908.97	1618.13	1908.99	1627.69	1908.99	1633.07	1909	1636.71	1910
1639.17	1910.72	1640.22	1911	1643.28	1911.84	1643.9	1912	1646.38	1912.69
1647.52	1913	1649.44	1913.16	1649.98	1913.21	1656.49	1913.72	1657.58	1913.81
1658.6	1913.88	1659.11	1913.91	1660.82	1914	1661.57	1914	1663.14	1914.12
1664.67	1914.2	1664.77	1914.21	1666.06	1914.29	1667.22	1914.38	1668.7	1914.47
1671.73	1914.68	1673.08	1914.75	1678.95	1915	1683.59	1915.03	1684.32	1915.04

1685.94	1915.05	1690.48	1915.35	1704.89	1916	1708.12	1916.23	1708.44	1916.25
1708.88	1916.26	1709.79	1916.31	1710.61	1916.35	1711.44	1916.38	1714.76	1916.47
1716.08	1916.53	1716.21	1916.53	1718.13	1916.57	1718.18	1916.58	1719.83	1916.52
1722.2	1916.39	1722.25	1916.39	1723.15	1916	1725.19	1915.14	1727.26	1914.28
1727.88	1914	1728.79	1913.57	1730.04	1913	1731.2	1912.39	1732.01	1912
1732.53	1911.76	1733.95	1911	1735.07	1910.42	1735.93	1910	1747.27	1910
1748.46	1909.97	1748.69	1910	1749.32	1910.16	1750.01	1910.3	1750.66	1910.4
1751.05	1910.41	1751.36	1910.38	1751.67	1910.37	1753.58	1910.07	1754.15	1909.95
1759.9	1909	1761.28	1908.91	1764.09	1908.6	1765.87	1908.44	1768.75	1908.24
1769.48	1908	1770.95	1907.45	1772.13	1907	1773.43	1906.52	1773.69	1906.43
1774.27	1906.25	1774.53	1906.16	1775.09	1905.93	1777.32	1905	1823.95	1905
1826.15	1905.23	1828.23	1905.23	1833.12	1905.39	1835.1	1905.46	1841.31	1905.7
1846.34	1905.9	1848.6	1906	1862.82	1906.44	1871.81	1906.75	1878.77	1907
2419.89	1907	2457.05	1907.51	2463.96	1907.55	2464.11	1907.55	2472.76	1907.59
2473.23	1907.59	2508.61	1907.87	2521.06	1907.98	2522.7	1907.98	2525.13	1907.99
2537.7	1907.99	2542.7	1908	2545.31	1908	2559.93	1908.07	2569.34	1908.12
2606.93	1908.29	2607.17	1908.29	2650.25	1908.5	2653.32	1908.51	2654.1	1908.52
2655.46	1908.52	2656.76	1908.53	2680	1908.65	2682.71	1908.66	2685.74	1908.68
2713.14	1908.78	2751.14	1908.94	2751.58	1908.94	2767.31	1909	2932.98	1909
2953.04	1908.33	2963.2	1908	3053.57	1908	3064.56	1908.01	3069.72	1908.01
3074.55	1908	3131.02	1908	3164.09	1907.91	3201.67	1907.82	3203.74	1907.79
3204.34	1907.8	3205.02	1907.8	3206.37	1907.78	3207.85	1907.78	3208.59	1907.77
3211.96	1907.78	3214.85	1907.74	3219.83	1907.74	3222.23	1907.7	3228.15	1907.68
3235.85	1907.64	3241.71	1907.57	3243.25	1907.56	3252.24	1907.43	3252.77	1907.42
3253.32	1907.42	3256.55	1907.36	3257.22	1907.35	3263.14	1907.24	3264.01	1907.23
3276.65	1907	3622.98	1907	3623.43	1907.03	3641.02	1908	3644.07	1908.39
3648.9	1909	3650.35	1909.19	3657.06	1910	3664.48	1910.91	3665.2	1911
3667.13	1911.22	3673.59	1911.93	3674.25	1912	3676.6	1912.23	3686.59	1913
3702.75	1913	3706.83	1912.73	3708.74	1912.61	3709.4	1912.56	3711.12	1912.45
3712.32	1912.36	3717.38	1912	3723.73	1912	3724.79	1911.93	3729.4	1911.91
3734.82	1911.83	3745.51	1911.83	3757.78	1911.92	3758.12	1911.92	3764.93	1911.95
3765.12	1911.96	3766.22	1911.93	3769.01	1911.92	3769.11	1911.91	3770.03	1911.9
3770.61	1911.88	3771.04	1911.84	3771.39	1911.83	3772.16	1911.79	3772.74	1911.74
3773.46	1911.69	3780.78	1911	3784.79	1910.65	3787	1910.46	3789.22	1910.25
3791.63	1910	3815.65	1910	3823.03	1909.87	3824.44	1909.84	3825.23	1909.83
3826.19	1909.83	3826.59	1909.82	3827.56	1909.81	3827.94	1909.8	3829.89	1909.78
3830.17	1909.77	3833.91	1909.72	3834.21	1909.72	3843.89	1909.61	3846.85	1909.6
3849.81	1909.61	3858.43	1909.75	3858.56	1909.75	3869.97	1910	3870.96	1910.04
3871.79	1910.06	3872.83	1910.11	3885.19	1910.6	3894.74	1911	3931.06	1911
3951.12	1910.06	3952.36	1910	3953.24	1909.99	3954.76	1909.99	3955.77	1910
3962.25	1910.65	3965.75	1911	3967.69	1911.14	3968.34	1911.19	3972.15	1911.42
3973.03	1911.46	3973.7	1911.47	3974.45	1911.51	3975.01	1911.52	3975.73	1911.52
3976.23	1911.51	3977.12	1911.47	3978.1	1911.41	3980.15	1911.26	3981.63	1911.12
3982.94	1911	3984.74	1910.82	3986.43	1910.63	3987.21	1910.55	3989.19	1910.31
3991.78	1909.98	3998.36	1909	4000.42	1908.69	4006.39	1908.48	4008.94	1908.36
4010.78	1908.29	4014.4	1908.16	4016.59	1908.01	4017.22	1908.01	4017.37	1908
4019.31	1908	4041.99	1907.46	4048.94	1907.3	4049.94	1907.3	4051.83	1907.31
4052.19	1907.32	4061.05	1907.51	4081.05	1907.99	4082.27	1907.99	4083.82	1908
4084.63	1908	4098.29	1908.92	4099.85	1909	4113.52	1909	4114.14	1909.2
4115.39	1909.57	4117.15	1910	4117.58	1910.09	4118.18	1910.19	4118.98	1910.27
4119.66	1910.31	4120.87	1910.29	4122.68	1910.2	4124.04	1910.1	4124.73	1910.02
4125.56	1909.91	4128.91	1909.38	4131.17	1909	4180.13	1909	4181.37	1909.01
4182.34	1909.01	4197.19	1909.03	4203.51	1909.03	4222.33	1909	4243.6	1909
4254.41	1909.16	4255.16	1909.17	4256.73	1909.2	4257.87	1909.2	4258.15	1909.21
4260.14	1909.25	4260.9	1909.26	4268	1909.4	4275.51	1909.58	4277.1	1909.61
4284.55	1909.79	4287.78	1909.87	4292.5	1910	4294.2	1910	4301.73	1910.32
4302.65	1910.36	4303.24	1910.4	4317.89	1911	4329.81	1911	4338.08	1910.62
4349.63	1910	4351.34	1909.99	4359.24	1909.97	4369.56	1909.95	4384.08	1909.91
4415.97	1909.99	4417.18	1910	4418	1910	4426.75	1911	4431.14	1911.42
4436.84	1912	4440.42	1912.48	4444.05	1913	4448.27	1913.83	4449.1	1914
4449.42	1914.11	4452.94	1915.24	4455.26	1916	4457.28	1916.64	4458.4	1917
4460.64	1917.73	4461.45	1918	4462.35	1918.29	4464.47	1919	4465.68	1919.44
4467.02	1920	4468.63	1920.75	4469.18	1921	4471.41	1921.99	4471.44	1922.01
4474.2	1923	4475.49	1923.48	4476.93	1924	4478.29	1924.56	4479.49	1925
4481.25	1925.66	4482.18	1926	4483.54	1926.58	4484.76	1927	4486.84	1927.77
4487.23	1927.83	4488.62	1928	4494.88	1928.7	4495.64	1928.81	4497.19	1929
4502.35	1929.39	4506.39	1930	4506.88	1930.03	4510.46	1930.19	4513.8	1930.35
4514.5	1930.39	4522.78	1931	4538.44	1931.02	4554.73	1931.04	4562.26	1931.05
4576.44	1931.03	4602.6	1931	4608.55	1930.82	4633.72	1930	4644.8	1929.73
4645.92	1929.7	4651.76	1929.57	4672.93	1929.15	4677.54	1929.05	4680.28	1929
4715.14	1929	4718.56	1929.07	4728.78	1929.26	4730.25	1929.28	4732.21	1929.32
4734.71	1929.36	4745.12	1929.56	4746.58	1929.59	4748.27	1929.62	4755.4	1929.76

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	4755.4	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	4755.4	178.24	178.24	178.24	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1910.59	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.15	Wt. n-Val.		0.040	
W.S. Elev (ft)	1910.44	Reach Len. (ft)	178.24	178.24	178.24
Crit W.S. (ft)		Flow Area (sq ft)		7211.97	
E.G. Slope (ft/ft)	0.002300	Area (sq ft)		7211.97	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	

Top Width (ft)	3131.00	Top Width (ft)		3131.00	
Vel Total (ft/s)	3.11	Avg. Vel. (ft/s)		3.11	
Max Chl Dpth (ft)	5.44	Hydr. Depth (ft)		2.30	
Conv. Total (cfs)	467038.3	Conv. (cfs)		467038.3	
Length Wtd. (ft)	178.24	Wetted Per. (ft)		3133.35	
Min Ch El (ft)	1905.00	Shear (lb/sq ft)		0.33	
Alpha	1.00	Stream Power (lb/ft s)	4755.40	0.00	0.00
Frctn Loss (ft)	0.44	Cum Volume (acre-ft)		434.96	
C & E Loss (ft)	0.00	Cum SA (acres)		199.59	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -17326.1

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1917.4	613.48	1916.01	616.95	1916	629.82	1915.97	639.76	1915.95
658.47	1915.91	664.66	1915.89	667.86	1915.89	669.99	1915.88	672.46	1915.88
673.31	1915.87	676	1915.87	686.01	1915.85	686.79	1915.84	689.86	1915.84
720.41	1915.77	741.77	1915.72	773.26	1915.65	791.98	1915.6	828.63	1915.52
829.29	1915.52	851.55	1915.47	852.7	1914.01	853.52	1913.99	855.62	1912.4
857.1	1912.39	858.22	1911.77	858.64	1911.77	858.82	1911.67	864.32	1911.65
866.45	1911.02	872.92	1911	874.14	1910.74	882.25	1910.64	883.23	1910.49
893.54	1907.35	902.91	1907.33	909.9	1907.32	917.21	1907.3	928.53	1907.3
946.13	1907.4	1002.63	1907.97	1005.02	1908	1005.95	1908.03	1021.44	1908.47
1022.37	1908.47	1024.31	1908.53	1025.91	1908.53	1030.39	1908.63	1033.24	1908.7
1036.6	1908.76	1039.84	1908.8	1045.26	1908.79	1050.6	1908.79	1051.78	1908.78
1053.8	1908.81	1058.15	1908.84	1075.48	1908.76	1076.68	1908.76	1123.06	1909
1258.81	1909	1277.74	1909.01	1306.01	1909.01	1324	1909.09	1328.16	1909.12
1329.24	1909.12	1332.7	1909.15	1363.48	1909.23	1392.02	1909.24	1403.54	1909.11
1409.6	1909.02	1412.11	1909	1456.6	1908.91	1492.85	1908.85	1506.68	1908.87
1518.87	1908.9	1546.91	1908.95	1555.03	1908.97	1565.67	1908.99	1568.7	1909
1571.64	1909	1586.31	1909.65	1590.74	1909.85	1594.46	1910	1596.04	1910.21
1602.58	1911	1609.99	1912	1612.95	1912.07	1615.9	1912	1618.7	1911.71
1619.09	1911.66	1623.76	1911.2	1625.62	1911	1630.61	1910.92	1635.59	1911
1644.15	1911.8	1646.21	1912	1649.98	1912.44	1651.48	1912.61	1654.42	1912.89
1656.12	1913	1658.2	1913.02	1662.49	1913.03	1664.38	1913.02	1665.82	1913.11
1678.7	1913.33	1680.57	1913.18	1681.71	1913.17	1684.35	1913	1686.55	1912.28
1687.47	1912	1688.22	1911.74	1690.75	1911	1694.07	1910	1696.91	1909.1
1697.51	1909	1701.64	1908.37	1706.92	1907.5	1708.96	1907	1710.3	1906.63
1712.68	1906	1716.27	1905	1724.77	1905	1729.84	1904.99	1736.86	1904.99
1748.46	1905	1749.03	1905.01	1762.28	1905.83	1763.77	1905.91	1764.75	1905.93
1766.35	1906	1770.77	1906.03	1773.89	1906.02	1791.15	1906.3	1793.77	1906.35
1797.39	1906.43	1798.64	1906.45	1800.86	1906.5	1813.11	1906.89	1821.77	1906.94
1823.1	1906.94	1825.46	1907	1901.63	1907	1904.48	1907.12	1908.62	1907.28
1911.72	1907.37	1917.31	1907.51	1919.47	1907.53	1920.67	1907.52	1921.23	1907.54
1928.17	1907.49	1934.11	1907.59	1941	1907.72	1946.94	1907.86	1955.03	1908
2010.95	1908	2013.54	1907.88	2023.95	1907.37	2031.87	1907	2096.2	1907
2194.81	1906.81	2196.7	1906.83	2198.72	1906.83	2200.27	1906.82	2203.37	1906.82
2212.99	1906.78	2221.88	1906.74	2263.52	1906.87	2304.27	1907	2420.52	1907
2421.12	1907.01	2447.63	1907.42	2465.4	1907.68	2467.15	1907.7	2483.66	1907.84
2484.17	1907.84	2500.77	1907.99	2502.68	1908	2538.07	1908	2542.47	1908.01
2546.09	1908.01	2598.93	1908.24	2601.06	1908.24	2664.04	1908.39	2706.49	1908.49
2709.45	1908.49	2716.48	1908.51	2721.5	1908.51	2726.37	1908.52	2729.11	1908.52
2774.02	1908.5	2822.5	1908.48	2876.61	1908.26	2899.72	1908.11	2913.67	1908.01
2915.36	1908	2918.01	1908	2926.56	1907.74	2930.13	1907.66	2932.23	1907.59
2932.49	1907.59	2934.85	1907.5	2935.08	1907.5	2940.09	1907.32	2940.46	1907.33
2943.1	1907.24	2943.4	1907.25	2961.56	1907.02	2965.99	1907.02	2978.23	1907.03
2990.19	1907.03	2998.98	1907.04	3023.17	1907.04	3025.4	1907.05	3034.22	1907.13
3034.69	1907.14	3065.68	1907.4	3070.93	1907.37	3076.41	1907.33	3082.59	1907.29
3086.79	1907.29	3087.63	1907.28	3090.75	1907.28	3102.93	1907.18	3106.11	1907.15
3114.4	1907.09	3124.08	1907.01	3125.63	1907	3143.96	1906.8	3144.58	1906.79
3157.31	1906.65	3159.46	1906.64	3168.75	1906.54	3174.22	1906.53	3181.76	1906.46
3188.33	1906.45	3194.92	1906.43	3201.77	1906.37	3202.3	1906.37	3207.25	1906.33
3211.79	1906.3	3214.74	1906.27	3242.72	1906.28	3273.38	1906.3	3276.97	1906.31
3378.95	1907	3456.74	1907	3469.69	1906.8	3476.03	1906.69	3487.04	1906.49
3489.96	1906.45	3502.06	1906.24	3515.2	1906.01	3516.54	1906	3522.68	1905.79
3544.4	1905	3558.17	1905	3566.68	1905.41	3578.71	1906	3586.61	1906.49
3594.38	1907	3600.02	1907.56	3604.56	1908	3607.38	1909.47	3609.94	1910.79
3610.38	1911	3612.31	1912	3614.29	1913	3616.73	1913.02	3619.29	1913
3623.54	1912.39	3627.99	1911.49	3630.49	1911	3632.08	1910.99	3636.33	1910.98
3642.4	1911	3652.9	1911.68	3657.47	1912	3661.33	1912.22	3663.32	1912.36
3666.96	1912.58	3673.47	1913	3676.57	1913	3676.79	1913.01	3680.67	1913.01
3682.1	1913	3684.47	1913	3688.53	1913.14	3689.99	1913.17	3692.29	1913.27
3700.36	1913.68	3705.4	1913.81	3705.57	1913.83	3706.44	1913.79	3707.05	1913.79
3708.72	1913.6	3720.19	1913.06	3721.63	1913	3729.1	1912.71	3730.06	1912.65
3734.21	1912	3740.24	1911.02	3740.7	1910.94	3742.52	1910.55	3746.69	1909.53
3748.81	1909	3753.47	1909	3755.85	1910	3756.26	1910.16	3758.09	1911
3759.1	1911.32	3760.9	1911.74	3762.07	1911.98	3762.39	1912	3764.66	1912.06
3767.19	1912	3771.83	1911.85	3772.77	1911.88	3773.48	1911.88	3775.6	1911.83
3780.79	1911.95	3782.42	1911.98	3786.15	1912	3790.97	1912.37	3793.7	1912.54

3795.14	1912.62	3795.61	1912.66	3797.01	1912.72	3799.24	1912.8	3801.29	1912.89
3804.2	1913	3807.96	1913.01	3808.66	1913	3812.83	1912.75	3821.96	1912
3825.27	1911.18	3830.35	1910	3833.16	1909.33	3835.25	1909	3840.53	1909
3841.91	1909.24	3845.9	1909.91	3849.31	1910.44	3853.03	1911	3858.86	1911.86
3859.88	1912	3864.6	1912	3869.51	1911.35	3869.99	1911.28	3871.29	1911.04
3873.14	1910.62	3875.56	1910	3879.68	1909	3882.66	1908.99	3885.79	1909
3887.53	1909.25	3889.69	1909.47	3892.62	1909.71	3894.75	1909.59	3895.7	1909.72
3896.3	1909.73	3897.08	1909.68	3897.6	1909.71	3898.94	1909.58	3901.8	1909.05
3902.02	1909	3904.11	1908	3908.76	1907.56	3912.89	1907.38	3916.06	1907.19
3918.22	1907.12	3920.12	1907.07	3921.01	1907.02	3923.51	1907.01	3923.89	1907
3931.53	1907.02	3937.26	1907.01	3938.4	1907	3994.15	1907	4014.4	1907.66
4024.62	1908	4030.37	1908.17	4038.92	1908.43	4040.45	1908.46	4052.19	1908.55
4070.27	1908.71	4076.96	1908.81	4087.35	1908.96	4090.35	1909	4105.68	1909
4112.12	1909.01	4118.78	1909.01	4128.06	1909.37	4128.75	1909.38	4143.98	1909.76
4148.75	1909.86	4153.07	1910	4164.32	1910.61	4167.06	1910.68	4169.05	1910.71
4170.52	1910.75	4175.31	1910.93	4176	1910.96	4177.73	1911	4233.52	1911
4241.9	1910.28	4244.94	1910	4259.34	1909.11	4260.44	1909	4347.42	1909
4352.07	1909.06	4352.27	1909.07	4356.25	1909	4360.87	1909	4365.1	1909.34
4372.98	1910	4382.41	1910.92	4383.14	1911	4388.49	1911.63	4390.08	1911.8
4400.84	1913	4403.15	1913.28	4413.84	1914.81	4415.19	1915	4419.07	1915.56
4421.37	1915.86	4428.4	1916.79	4432.49	1918	4433.78	1918.39	4435.85	1919
4437.64	1919.54	4439.26	1920	4442.16	1920.93	4446.01	1922.1	4449.06	1923
4450.09	1923.31	4452.46	1924	4454.98	1924.7	4456.48	1925	4462.05	1926
4463.4	1926.25	4467.57	1927	4471.38	1927.69	4473.02	1928	4476.25	1928.58
4478.52	1929	4480.49	1929.16	4496.13	1930.27	4496.66	1930.29	4502.49	1930.69
4502.6	1930.69	4510	1930.86	4515.04	1930.99	4518.11	1931	4519.95	1931.16
4527.44	1932	4539.63	1932.91	4541.17	1933	4591.64	1933	4594.53	1932.88
4609.31	1932.25	4615.73	1932.13	4625.34	1932	4629.21	1931.96	4630.45	1931.93
4633.35	1931.83	4635.25	1931.8	4640.44	1931.76	4644.13	1931.71	4658.25	1931.62
4660.1	1931.58	4662.33	1931.52	4675.12	1931.07	4675.84	1931.04	4677.43	1931
4679.56	1930.99	4680.41	1931	4683.98	1931.07	4693.43	1931.25	4700.13	1931.34
4709.19	1931.23	4714.02	1931.26	4717.92	1931.31	4720.35	1931.31	4727.66	1931.29
4732.43	1931.33	4734.83	1931.39	4742.72	1931.37	4744.89	1931.41	4748.55	1931.41

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	4748.55	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	4748.55	116.07	116.07	116.07	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1910.15	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.17	Wt. n-Val.		0.040	
W.S. Elev (ft)	1909.99	Reach Len. (ft)	116.07	116.07	116.07
Crit W.S. (ft)		Flow Area (sq ft)		6870.16	
E.G. Slope (ft/ft)	0.002618	Area (sq ft)		6870.16	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3055.21	Top Width (ft)		3055.21	
Vel Total (ft/s)	3.26	Avg. Vel. (ft/s)		3.26	
Max Chl Dpth (ft)	5.00	Hydr. Depth (ft)		2.25	
Conv. Total (cfs)	437772.0	Conv. (cfs)		437772.0	
Length Wtd. (ft)	116.07	Wetted Per. (ft)		3058.08	
Min Ch El (ft)	1904.99	Shear (lb/sq ft)		0.37	
Alpha	1.00	Stream Power (lb/ft s)	4748.55	0.00	0.00
Frctn Loss (ft)	0.30	Cum Volume (acre-ft)		406.15	
C & E Loss (ft)	0.01	Cum SA (acres)		186.94	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -17442.2

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1917.47	537.14	1916.29	540.15	1916.29	551.28	1916.26	559.87	1916.24
567.78	1916.22	576.02	1916.21	581.35	1916.19	584.1	1916.19	585.94	1916.18
589.84	1916.18	591.11	1916.17	599.72	1916.15	603.03	1916.15	629.22	1916.09
636.51	1916.07	647.49	1916.05	670.36	1916	673.26	1915.99	674.34	1915.99
690.26	1915.95	721.32	1915.89	721.88	1915.89	754.08	1915.81	773.02	1915.77
788.22	1915.74	798.91	1915.72	804.97	1915.7	807.63	1915.7	810.07	1915.69
820.14	1915.67	862.74	1915.57	863.6	1915.57	863.81	1913.52	863.9	1912.84
864.3	1909.14	864.67	1907	964.66	1907	967.95	1907.05	970.29	1907.1
988.16	1907.4	997.15	1907.55	999.69	1907.58	1005.61	1907.68	1022.1	1907.9
1028.8	1908	1035.39	1908.07	1037.06	1908.09	1047.21	1908.17	1053.85	1908.23
1056.13	1908.22	1057.71	1908.23	1060.48	1908.22	1113.78	1908.49	1215.48	1909
1327.72	1909	1340.44	1909.01	1376.74	1909.01	1379.73	1909	1383.95	1909
1395.79	1908.61	1398.02	1908.6	1402.52	1908.5	1405.76	1908.43	1412.02	1908.34
1414.25	1908.33	1417.16	1908.29	1419.18	1908.29	1420.61	1908.27	1424.11	1908.24
1426.03	1908.22	1428.96	1908.22	1429.64	1908.23	1430.88	1908.21	1432.36	1908.23
1459.22	1908.31	1552.84	1908.95	1569.03	1908.98	1572.05	1908.98	1572.68	1908.99

1573.61	1908.99	1581.32	1908.98	1582.49	1908.98	1584.95	1908.99	1586.31	1909
1592.52	1909.11	1592.78	1909.11	1596.34	1909.22	1598.96	1909.28	1600.18	1909.32
1606.71	1909.5	1610.2	1909.58	1611.32	1909.61	1615.54	1909.7	1620.12	1909.58
1620.77	1909.61	1621.31	1909.61	1631.07	1909.08	1632.28	1909	1635.19	1908.99
1640.94	1908.98	1643.53	1908.99	1645.97	1908.99	1648.3	1909	1651.81	1909.01
1655.15	1909.01	1657.06	1909	1662.62	1908.6	1663.95	1908.51	1666.36	1908.39
1667.42	1908.37	1669.67	1908.34	1670.02	1908.34	1671.31	1908	1673.45	1907.09
1674	1906.86	1676.22	1906	1679.09	1905.05	1679.25	1905	1680.68	1905
1689.08	1904.98	1694.98	1904.98	1700.49	1904.99	1707.53	1904.99	1713.44	1905
1716.6	1905	1722.69	1904.99	1731.14	1905	1733.21	1905	1735.34	1905.03
1736.71	1905.06	1739.48	1905.13	1740.56	1905.15	1773.57	1906	1774.7	1906.02
1782.07	1906.09	1854.51	1906.85	1861.07	1906.92	1868.15	1907	1871.3	1907
1879.26	1907.17	1880.51	1907.18	1881.42	1907.2	1882.94	1907.2	1883.87	1907.23
1884.87	1907.25	1891.57	1907.44	1901.32	1907.55	1903.6	1907.53	1904.33	1907.53
1905.55	1907.51	1918.23	1907.51	1931.13	1907.52	1931.99	1907.53	1937.04	1907.57
1943.1	1907.63	1964.74	1907.9	1970.71	1907.99	1973.57	1908	2009.97	1908
2011.95	1907.95	2015.17	1907.84	2019.12	1907.72	2021.73	1907.63	2040.66	1907
2041.35	1906.99	2042.64	1906.99	2212.71	1906	2261.71	1906	2281.38	1906.34
2285.32	1906.42	2287.08	1906.46	2301.58	1906.73	2315.3	1907	2392.72	1907
2450.87	1907.36	2533.26	1907.86	2533.66	1907.86	2547.19	1908	2687.98	1908
2697.85	1908.02	2699.25	1908.02	2729.27	1908	2879.57	1908	2880.7	1907.98
2897	1907.73	2898.9	1907.7	2904.61	1907.58	2918.63	1907.27	2919.89	1907.24
2922.06	1907.2	2922.75	1907.18	2929.11	1907.06	2931.56	1907	2943.35	1907
2954.64	1906.99	2985.44	1906.99	2992.02	1907	3005.99	1907	3010.03	1907.01
3014.06	1907	3016.72	1907	3018.13	1906.99	3033.23	1906.99	3041.31	1906.97
3046.07	1906.97	3050.96	1906.96	3052.73	1906.96	3057.57	1906.95	3059.2	1906.95
3125.12	1906.26	3128.49	1906.24	3130.8	1906.22	3140.81	1906.15	3140.86	1906.14
3162.17	1906	3214.96	1906	3222.37	1906.01	3239.6	1906.01	3293.42	1906.5
3324.26	1906.77	3326.04	1906.79	3326.96	1906.79	3331.81	1906.83	3335.99	1906.85
3337.25	1906.86	3360.96	1907	3419.62	1907	3423.34	1906.96	3427.99	1906.92
3430.42	1906.89	3430.87	1906.89	3435.08	1906.82	3437.03	1906.82	3438.95	1906.81
3439.23	1906.8	3452.33	1906.63	3453.68	1906.63	3455.82	1906.6	3463.01	1906.56
3472.15	1906.49	3488.3	1906.32	3489.13	1906.3	3508.89	1906.05	3512.63	1906
3517.44	1906	3520.38	1905.9	3530.14	1905.46	3536.77	1905.18	3537.72	1905.13
3540.49	1905	3553.9	1905	3561.67	1905.65	3565.98	1906	3570.69	1906.31
3576.02	1906.71	3576.97	1906.77	3579.95	1907	3581.55	1907.07	3597.06	1908
3606.57	1908.69	3610.73	1909	3615.7	1909	3622.52	1909.01	3649.76	1909.01
3658.23	1909.15	3659.3	1909.19	3660.34	1909.14	3663.52	1909	3665.49	1909
3666.52	1908.99	3668.41	1909	3670.67	1909	3674.15	1909.49	3674.63	1909.53
3675.12	1909.6	3675.37	1909.6	3676.4	1909.73	3676.77	1909.7	3677.03	1909.73
3678.49	1909.74	3679.04	1909.7	3680.58	1909.63	3681.43	1909.57	3684.99	1909.34
3685.62	1909.29	3687.55	1909.16	3689.08	1909.1	3690.36	1909.07	3690.87	1909.05
3702.33	1909.01	3702.61	1909.06	3703.32	1909.11	3703.4	1909.13	3704.18	1909.2
3704.81	1909.28	3705.72	1909.58	3706.04	1909.65	3707.05	1910	3707.97	1910.28
3709.03	1910.58	3709.4	1910.72	3709.56	1910.75	3710.29	1911	3711.73	1911.42
3712.12	1911.52	3712.42	1911.63	3713.63	1912	3714.24	1912.16	3714.59	1912.27
3716.56	1912.78	3716.71	1912.83	3717.4	1913	3717.56	1913.01	3718.12	1913.12
3719.58	1913.38	3720.03	1913.43	3720.49	1913.46	3720.86	1913.44	3724.69	1913
3725.46	1912.92	3725.95	1912.9	3727.65	1912.91	3728.2	1912.88	3728.99	1912.79
3729.41	1912.73	3733.85	1912	3739.32	1911.11	3739.92	1911	3740.68	1910.83
3741.13	1910.71	3743.19	1910	3746.13	1909	3747.77	1908.41	3748.56	1908.39
3749.89	1908.31	3750.76	1908.25	3751.8	1908.22	3752.63	1908.23	3758.76	1908.28
3761.82	1908.23	3767.63	1908.24	3767.71	1908.23	3774.56	1908.2	3775.54	1908.19
3777.4	1908.13	3778.1	1908.14	3779.86	1908.12	3781.2	1908.1	3781.77	1908.11
3790.1	1908.28	3816.13	1908.9	3820.26	1909	3833.53	1909	3836.76	1908.84
3848.81	1908.23	3850.66	1908.24	3852.42	1908.24	3856.44	1908.03	3857.63	1907.98
3862.56	1907.87	3862.92	1907.87	3867.57	1908	3868.66	1908.12	3874.59	1908.68
3876.52	1908.87	3876.9	1908.9	3877.67	1909	3879.49	1909.26	3881.24	1909.57
3883.25	1909.91	3883.69	1909.97	3884.03	1909.98	3884.89	1909.81	3885.99	1909.51
3887.67	1909	3888.94	1908.66	3891.8	1908	3896.04	1907	3980.13	1907
3983.38	1907.01	3987.1	1907	4002.9	1907	4003.34	1907.01	4032.3	1908
4033.13	1908	4064.66	1908.98	4065.33	1909	4132.56	1909	4138.55	1909.46
4139.96	1909.51	4140.73	1909.52	4142.03	1909.56	4143.95	1909.61	4144.86	1909.66
4147.29	1909.71	4147.88	1909.74	4150.42	1909.77	4150.65	1909.78	4151.78	1909.79
4151.91	1909.8	4153.64	1909.8	4156.33	1909.89	4157.42	1909.92	4159.89	1909.9
4162.15	1909.86	4164.11	1909.84	4167.26	1909.78	4176.18	1909.63	4177.22	1909.61
4191.13	1909.29	4198.92	1909.17	4199.33	1909.17	4204.29	1909	4212.39	1908.61
4225.01	1908.14	4229.59	1908	4260.6	1908	4261.86	1908.02	4262.06	1908.03
4274.17	1908.24	4282.55	1908.39	4317.28	1909	4344.37	1909.97	4345.15	1910.01
4349.12	1910.39	4351.59	1910.62	4353.91	1910.84	4355.03	1910.93	4355.77	1911
4361.13	1911.47	4361.98	1911.55	4364.14	1911.73	4366.61	1911.94	4367.45	1912
4369.76	1912.03	4373.76	1912.07	4375.13	1912.07	4379.86	1912.4	4388.24	1912.44
4390.28	1912.48	4392.39	1912.57	4395.63	1912.92	4395.66	1912.92	4398.12	1913.23
4399.68	1913.42	4403.12	1913.87	4404.88	1914.09	4406.38	1914.27	4407.1	1914.38
4410.23	1914.83	4411.17	1914.96	4411.39	1915	4416.55	1915.85	4416.63	1915.85
4423.15	1916	4425.67	1916	4429.97	1916.12	4433.04	1916.26	4434.29	1916.33
4436.57	1916.47	4444.44	1917	4446.45	1917.61	4447.77	1918	4449.35	1918.48
4452.96	1919.56	4456.3	1920.57	4460.99	1922	4464.02	1922.91	4464.5	1923.05
4467.65	1924	4472.93	1925	4479.37	1925.93	4480.04	1926.03	4486.24	1927
4490.69	1927.67	4492.97	1928	4508.36	1928.83	4511.28	1929	4520.49	1929
4521.72	1928.99	4522.83	1929	4525.67	1929	4546.21	1929.23	4561.67	1929.36
4561.76	1929.36	4569	1929.24	4578.52	1929.01	4579.33	1929	4769.28	1929

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	4769.28	.045

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.

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            0 4769.28            84.68   84.68   84.68             .1       .3
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CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1909.85	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.15	Wt. n-Val.		0.040	
W.S. Elev (ft)	1909.70	Reach Len. (ft)	84.68	84.68	84.68
Crit W.S. (ft)		Flow Area (sq ft)		7249.36	
E.G. Slope (ft/ft)	0.002529	Area (sq ft)		7249.36	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3403.46	Top Width (ft)		3403.46	
Vel Total (ft/s)	3.09	Avg. Vel. (ft/s)		3.09	
Max Chl Dpth (ft)	4.72	Hydr. Depth (ft)		2.13	
Conv. Total (cfs)	445448.7	Conv. (cfs)		445448.7	
Length Wtd. (ft)	84.68	Wetted Per. (ft)		3407.65	
Min Ch El (ft)	1904.98	Shear (lb/sq ft)		0.34	
Alpha	1.00	Stream Power (lb/ft s)	4769.28	0.00	0.00
Frctn Loss (ft)	0.22	Cum Volume (acre-ft)		387.34	
C & E Loss (ft)	0.00	Cum SA (acres)		178.33	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -17526.8

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1917.58	453.12	1916.6	455.82	1916.59	465.79	1916.57	473.48	1916.55
480.56	1916.54	487.92	1916.52	492.69	1916.51	495.15	1916.51	496.79	1916.5
499.35	1916.5	501.41	1916.49	509.11	1916.48	509.71	1916.47	512.06	1916.47
535.45	1916.42	541.96	1916.4	551.75	1916.38	572.13	1916.34	575.67	1916.33
589.85	1916.3	617.47	1916.24	617.97	1916.24	646.58	1916.18	663.38	1916.14
676.86	1916.11	686.33	1916.09	691.7	1916.08	694.06	1916.07	696.51	1916.07
700.32	1916.06	742.81	1915.97	743.67	1915.96	746.66	1915.96	763.68	1915.92
779.62	1915.89	783.7	1915.88	786.05	1915.87	790.81	1915.86	806.36	1915.83
812.16	1915.82	829.83	1915.78	838.4	1915.76	863.07	1915.71	868.6	1915.69
875.56	1915.68	875.92	1911.49	876.48	1907	988.77	1907	1058.45	1907.9
1066.53	1908	1077.05	1908	1240.2	1908.91	1244.83	1908.94	1252.31	1908.97
1257.8	1909	1343.28	1909	1347.72	1908.9	1370.96	1908.36	1388.31	1908
1389.07	1907.98	1396.74	1907.83	1397.11	1907.84	1423.26	1907.79	1446.68	1907.75
1447.23	1907.76	1451.44	1907.79	1467.58	1907.97	1473.52	1907.98	1475.59	1907.99
1478.34	1907.99	1485.25	1908	1488.8	1908.04	1489.23	1908.05	1495.61	1908.15
1497.01	1908.17	1530.72	1908.99	1531.2	1909	1543.06	1909	1547.25	1909.01
1558.79	1909.01	1593.29	1909.98	1593.77	1910	1594.45	1910.07	1598.21	1910.4
1600.04	1910.55	1601.17	1910.55	1601.93	1910.54	1607.72	1910.91	1611.17	1910.91
1618.29	1911	1621.09	1911.18	1623.93	1911.04	1625	1911.05	1626.52	1911
1634.13	1910	1635.62	1909.56	1637.73	1909	1641.17	1908	1644.6	1907.03
1644.83	1906.97	1647.83	1906	1650.85	1905	1652.95	1904.99	1654.64	1904.99
1659.25	1904.97	1667.4	1905	1671.03	1905.01	1690.24	1905.01	1692.94	1905.02
1700.04	1905.02	1718.55	1905.52	1727.15	1905.74	1728.56	1905.77	1729.04	1905.79
1732.38	1905.86	1733.58	1905.89	1738.53	1905.99	1739.96	1906	1747.05	1906.14
1748.92	1906.18	1750.13	1906.22	1751.83	1906.25	1753.01	1906.29	1754.22	1906.32
1762.62	1906.51	1767.89	1906.58	1777.52	1906.79	1782.66	1906.84	1787.13	1906.9
1792.63	1907	1794.28	1907	1806.62	1907.01	1813.08	1907	1826.1	1907
1837.46	1906.99	1839.84	1906.99	1847.08	1907	1853.96	1907	1854.22	1907.14
1856.05	1908	1857.27	1908.5	1858.18	1908.83	1858.57	1909	1860.7	1909.86
1861.01	1910	1863.4	1911	1865.25	1911.79	1865.76	1912	1870.58	1912.85
1871.46	1913	1877.57	1913.92	1880.03	1914.28	1884.82	1915	1889.26	1915
1890.3	1914.84	1890.95	1914.72	1893.19	1914.28	1894.84	1914	1898.45	1913.34
1900.33	1913	1904.25	1912	1904.59	1911.74	1906.2	1910.35	1908.87	1908
2021.33	1908	2021.72	1907.99	2024.78	1907.86	2027.24	1907.75	2030.14	1907.61
2040.28	1907.17	2044	1907	2044.61	1907	2045.3	1906.97	2049.22	1906.77
2051.86	1906.65	2066.77	1906	2070.81	1906	2075.99	1905.99	2078.73	1906
2081.31	1906	2084.59	1906.02	2094.37	1906.05	2099.13	1906.09	2115.67	1906.15
2118.75	1906.12	2120.14	1906.1	2121.05	1906.1	2138.2	1906	2188.33	1906
2196.96	1905.99	2210.3	1905.99	2216.2	1905.98	2232.87	1905.98	2239.99	1905.99
2267.48	1905.99	2281.79	1906	2292.74	1906	2313.55	1906.23	2319.27	1906.31
2323.22	1906.37	2325.71	1906.4	2328.09	1906.44	2329.24	1906.45	2330.29	1906.47
2354.91	1906.83	2355.46	1906.84	2365.7	1907	2370.27	1907	2446.2	1907.37
2484.95	1907.54	2525.06	1907.57	2560.43	1907.6	2561.99	1907.59	2567.73	1907.58
2585.91	1907.58	2589.7	1907.57	2605.46	1907.57	2619.17	1907.55	2658.68	1907.55
2665.53	1907.57	2679.32	1907.6	2694.52	1907.63	2696.34	1907.64	2701.17	1907.65
2711.47	1907.66	2711.91	1907.67	2719.03	1907.68	2724.8	1907.68	2734.04	1907.69
2743.59	1907.71	2748.16	1907.71	2767.27	1907.75	2788.33	1907.78	2818.15	1907.83
2838.17	1907.85	2838.42	1907.86	2843.58	1907.82	2852.31	1907.76	2857.03	1907.69
2858.02	1907.69	2875.5	1907.51	2876.05	1907.51	2881.98	1907.43	2890.1	1907.33
2891.52	1907.32	2893.16	1907.3	2899.68	1907.26	2906.33	1907.19	2913.1	1907.11
2921.53	1907	2948.64	1907	2961.29	1906.9	2996.24	1906.74	3002.07	1906.79
3008.85	1906.86	3011.61	1906.84	3014.56	1906.83	3019.25	1906.81	3020.08	1906.81
3024.91	1906.79	3033.71	1906.76	3034.2	1906.76	3043.44	1906.72	3048.07	1906.73
3050.31	1906.71	3053.2	1906.72	3055.45	1906.7	3056.68	1906.68	3057.3	1906.68
3058.21	1906.66	3080.82	1906.63	3109	1906.58	3110.35	1906.57	3127.66	1906.47

3138.85	1906.39	3147.05	1906.34	3157.56	1906.28	3169.25	1906.21	3173.25	1906.19
3173.36	1906.18	3194.97	1906.01	3195.98	1906	3294.65	1906	3305.37	1906.1
3326.82	1906.27	3377.91	1906.13	3417.27	1906	3454.66	1906	3466.48	1905.99
3470.32	1905.98	3482.17	1905.97	3517.04	1905.92	3519.41	1905.93	3521.9	1905.93
3550.19	1905.97	3569.39	1905.99	3573.82	1905.99	3575.04	1906	3579.35	1906.62
3580.99	1907	3585.14	1908	3586.87	1908.41	3589.84	1909	3591.37	1909.31
3592.09	1909.49	3592.71	1909.69	3593.61	1910	3594.86	1910.82	3595.17	1911
3597.25	1912	3599.54	1913	3600.7	1913.52	3601.42	1913.81	3601.96	1914
3602.74	1914.24	3603.29	1914.38	3604.65	1914.69	3606.28	1915	3608	1915.31
3610.29	1916	3611.84	1916.48	3613.56	1917	3615.24	1917.53	3615.5	1917.62
3618.48	1918.49	3618.72	1918.57	3620.18	1919	3620.36	1919.03	3622.83	1919.51
3624.2	1919.59	3625.31	1919.59	3625.82	1919.54	3626.87	1919.35	3629.51	1919
3636.82	1918.01	3636.93	1918	3644.46	1917	3645.08	1916.91	3648.07	1916
3651.36	1914.18	3652.08	1913.8	3655.26	1912	3655.56	1911.84	3656.83	1911
3657.52	1910.66	3658.54	1910	3659.26	1909.57	3660.18	1909	3676.93	1908.22
3682.3	1908	3694.45	1907.37	3694.59	1907.37	3696.58	1907.28	3698.87	1907.23
3703.43	1907.34	3718.56	1907.75	3721.44	1907.88	3723.14	1907.95	3724.75	1908
3725.42	1907.97	3739.77	1907	3768.66	1907	3775.72	1907.28	3781.63	1907.5
3794.55	1907.93	3796.25	1907.98	3799.02	1907.98	3801.76	1907.96	3803.22	1907.96
3805.6	1907.97	3808.11	1907.97	3808.59	1907.98	3811.89	1907.98	3815.21	1908
3816.39	1908	3817.45	1908.06	3819.27	1908.2	3821.23	1908.34	3822.68	1908.45
3825.99	1908.72	3827.2	1908.79	3830.39	1909	3832.87	1909.63	3834.28	1910
3836.05	1910.45	3838.14	1911	3839.17	1911.21	3841.66	1911.34	3847.01	1911.78
3847.44	1911.81	3849.14	1911.9	3850.53	1911.93	3851.18	1911.93	3852.77	1911.9
3854.56	1911.81	3855.09	1911.77	3860.62	1911.31	3862.5	1911.11	3863.43	1911
3865.96	1910.36	3867.36	1910	3872.49	1908.7	3873.81	1908.31	3874.75	1908
3877.99	1907	4007.54	1907	4012.86	1907.17	4013.63	1907.19	4023.59	1907.51
4024.06	1907.52	4025.98	1907.53	4049.49	1907.97	4052.16	1907.97	4059.07	1908
4064.89	1908.26	4065.17	1908.27	4070.17	1908.51	4075.71	1908.8	4079.31	1909
4079.9	1909.01	4080.59	1909	4155.12	1909	4168.88	1908.95	4207.03	1908.03
4208.17	1908	4269.02	1908	4283.34	1908.77	4286.34	1908.93	4287.35	1908.99
4287.71	1909	4294.97	1909	4320.24	1909.4	4334.35	1909.63	4336.13	1909.65
4356.34	1909.99	4359.24	1910	4360.6	1910.08	4379.39	1911	4390.46	1912
4393.21	1912.27	4400.83	1913	4409.7	1914	4411.01	1914.15	4415.02	1914.59
4417.16	1914.84	4418.59	1915	4419.26	1915.12	4420.33	1915.33	4420.67	1915.36
4425.66	1915.98	4427.03	1915.99	4429.31	1915.98	4431.53	1915.99	4432.39	1916
4433.02	1916.03	4450.88	1917	4454.81	1917.19	4463.92	1918	4466.01	1918.29
4470.97	1919	4472.98	1919.45	4476.85	1920	4479.28	1920.6	4480.92	1921
4484.12	1921.8	4484.94	1922	4485.99	1922.27	4488.9	1923	4492.07	1923.79
4493.78	1924.21	4500.64	1925.95	4500.92	1926	4512.09	1927	4523.31	1928
4524.35	1928.03	4542.52	1928.51	4543.46	1928.53	4546.87	1928.57	4550.42	1928.66
4561.1	1928.75	4565.12	1928.83	4567.62	1928.86	4568.58	1928.86	4570.04	1928.89
4571.37	1928.9	4571.83	1928.89	4573.42	1928.91	4592.36	1929	4794.51	1929

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	4794.51	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	4794.51	139.39	139.39	139.39	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1909.63	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.16	Wt. n-Val.		0.040	
W.S. Elev (ft)	1909.48	Reach Len. (ft)	139.39	139.39	139.39
Crit W.S. (ft)		Flow Area (sq ft)		7084.44	
E.G. Slope (ft/ft)	0.002554	Area (sq ft)		7084.44	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3236.38	Top Width (ft)		3236.38	
Vel Total (ft/s)	3.16	Avg. Vel. (ft/s)		3.16	
Max Chl Dpth (ft)	4.51	Hydr. Depth (ft)		2.19	
Conv. Total (cfs)	443207.7	Conv. (cfs)		443207.7	
Length Wtd. (ft)	139.39	Wetted Per. (ft)		3241.57	
Min Ch El (ft)	1904.97	Shear (lb/sq ft)		0.35	
Alpha	1.00	Stream Power (lb/ft s)	4794.51	0.00	0.00
Frctn Loss (ft)	0.39	Cum Volume (acre-ft)		373.41	
C & E Loss (ft)	0.00	Cum SA (acres)		171.88	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -17666.2

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1917.75	316.25	1917.08	318.5	1917.07	326.79	1917.05	339.06	1917.03
345.18	1917.01	349.14	1917.01	349.83	1917	354.12	1917	354.66	1916.99
356.38	1916.99	363.73	1916.98	363.78	1916.97	365.21	1916.97	384.59	1916.93
389.98	1916.92	398.07	1916.9	414.92	1916.87	417.85	1916.86	429.55	1916.83
452.33	1916.79	452.75	1916.78	476.29	1916.73	490.1	1916.7	501.34	1916.68
508.94	1916.66	513.35	1916.66	515.28	1916.65	517.29	1916.65	524.35	1916.63

555.2	1916.57	555.86	1916.56	558.34	1916.56	572.25	1916.53	585.26	1916.5
588.55	1916.49	590.5	1916.49	607.06	1916.45	626.16	1916.41	633.13	1916.4
653.17	1916.36	670.28	1916.32	672.18	1916.32	673.13	1916.31	676.11	1916.31
701.22	1916.25	708.18	1916.24	712.16	1916.23	714.53	1916.22	716.12	1916.22
775.98	1916.09	889.8	1915.85	890.02	1915.29	891.07	1915.32	891.16	1915.29
896.23	1913.18	913.02	1913.01	916.05	1912.64	937.32	1912.44	938.04	1912.41
938.9	1912.34	946.43	1912.03	947.25	1911.98	956.27	1911.61	956.77	1911.58
963.33	1911.28	964.36	1911.21	982.55	1910.33	983.43	1910.28	1009.81	1909
1010.31	1908.97	1040.97	1907.3	1041.06	1907.3	1046.59	1907	1047.9	1907
1057.36	1907.15	1062.03	1907.17	1067.96	1907.2	1083.01	1907.34	1086.75	1907.38
1095.59	1907.42	1111.48	1907.52	1128.99	1907.66	1133.96	1907.68	1140.48	1907.73
1158.41	1907.81	1162.03	1907.84	1183.57	1907.92	1184.04	1907.93	1188.9	1907.96
1191	1907.96	1192.42	1907.97	1196.18	1907.97	1210.58	1908	1218.91	1908
1226.54	1908.01	1242.34	1908.02	1247.92	1908	1252.29	1908	1266.04	1907.94
1267.08	1907.94	1283.81	1907.86	1286.47	1907.84	1289.7	1907.81	1304.66	1907.72
1305.1	1907.72	1310.84	1907.66	1314.22	1907.63	1317.37	1907.61	1327.65	1907.56
1336.33	1907.45	1343.85	1907.42	1347.26	1907.36	1353.29	1907.33	1355.12	1907.33
1358.94	1907.28	1372.44	1907.08	1372.72	1907.08	1378.72	1907	1414.86	1907
1434.34	1907.26	1480.69	1907.67	1519.07	1908	1543.9	1908	1558.05	1908.54
1564.82	1908.79	1571.48	1909	1575.26	1909.24	1584.88	1909.16	1588.49	1909.05
1592.82	1909.04	1596.3	1909	1599.51	1908	1602.16	1907.18	1602.71	1907
1603.73	1906.63	1605.87	1905.87	1608.17	1905	1627.23	1904.97	1639.29	1904.96
1640.59	1904.96	1670.11	1905	1676.68	1905.29	1685.82	1905.67	1688.12	1905.76
1690.03	1905.82	1692.51	1905.93	1694.03	1905.98	1698.8	1906.2	1699.34	1906.21
1707.37	1906.57	1714.36	1906.52	1714.99	1906.54	1722.15	1906.6	1722.77	1906.62
1731.21	1907	1843.63	1907	1844.59	1907.41	1847.32	1908.71	1847.89	1909
1849.7	1909.77	1850.21	1910	1850.95	1910.25	1853.11	1911	1854.97	1911.61
1858.28	1912.65	1859.52	1913	1860	1913.05	1861.25	1913.1	1861.68	1913.16
1863.61	1913.26	1864.1	1913.23	1866.33	1913	1869.59	1912.61	1873.82	1912.21
1875.54	1912	1877.1	1911.79	1878.35	1911.59	1879.55	1911.36	1880.15	1911.26
1881.35	1911	1881.81	1910.88	1884.63	1910	1885.96	1909.37	1887.93	1908.41
1888.75	1908	1890.53	1907.47	1891.77	1907.44	1893.27	1907.37	1895.72	1907
1958.66	1907	1959.04	1907.01	1969.93	1907.01	1982.47	1907.02	1985.23	1907.02
1989.51	1907.01	2004.36	1907.01	2020.31	1907	2029.81	1906.54	2039.89	1906
2041.2	1905.99	2044.83	1905.98	2049.92	1905.97	2050.93	1905.96	2106.99	1905.9
2137.91	1905.86	2210.24	1905.98	2223.64	1906	2235.6	1906.16	2240.4	1906.18
2258.93	1906.38	2259.31	1906.38	2291.63	1906.63	2305.33	1906.74	2312.03	1906.76
2340.71	1907	2712.41	1907	2768.77	1907.08	2875.88	1907.22	2904.06	1907.01
2905.94	1907	2927.16	1907	2945.21	1906.15	2948.28	1906	3028.65	1906
3033.52	1906.1	3034.19	1906.12	3041.82	1906.29	3046.93	1906.41	3062.2	1906.76
3064.38	1906.8	3073.93	1907	3106.43	1907	3107.61	1906.96	3109.14	1906.92
3112.82	1906.8	3114.43	1906.76	3115.07	1906.73	3117.91	1906.66	3118.17	1906.66
3122.05	1906.57	3122.62	1906.55	3128.23	1906.44	3129.04	1906.41	3140.51	1906.14
3146.89	1906	3194.3	1906	3296.1	1905.99	3388.53	1905.99	3401.33	1906
3406.68	1906	3409.07	1906.01	3414.91	1906.01	3426.87	1906.34	3427.59	1906.37
3432.67	1906.47	3437.36	1906.64	3438.37	1906.66	3439.15	1906.7	3441.36	1906.77
3442.62	1906.83	3444.71	1906.88	3446.98	1906.89	3448.72	1906.87	3451.96	1906.82
3457.5	1906.72	3461.9	1906.65	3464.85	1906.59	3469	1906.51	3479.99	1906.22
3480.89	1906.2	3488.13	1906	3488.37	1906	3491.89	1905.89	3496.38	1905.76
3499.73	1905.66	3503.93	1905.53	3510.29	1905.36	3513.22	1905.29	3519.84	1905.08
3521.62	1905.06	3522.34	1905.04	3524.53	1905.02	3528.14	1905	3539.17	1905
3549.37	1905.12	3557.57	1905.21	3558.69	1905.22	3561.22	1905.27	3561.55	1905.29
3563.75	1905.35	3567.34	1905.48	3581.25	1906	3592.57	1906.89	3593.83	1907
3598.59	1907	3609.93	1907.4	3618.79	1907.71	3630.05	1908	3630.84	1908.06
3640.62	1909	3649.42	1909.91	3650.26	1910	3651.81	1910.01	3652.92	1910
3674.46	1910	3680.03	1909.87	3699.49	1909.43	3700.08	1909.41	3704.32	1909.42
3704.94	1909.4	3707.1	1909.41	3717.19	1909.1	3718.99	1909.03	3719.54	1909
3720.37	1909	3722.47	1908.98	3723.91	1908.98	3729.93	1908.8	3730.6	1908.8
3730.94	1908.76	3735	1908.51	3738.99	1908.15	3740.74	1908	3751.78	1907.25
3752.48	1907.22	3754.32	1907.17	3759.04	1907.08	3759.51	1907.06	3762.63	1907.03
3762.65	1907.02	3763.91	1907.02	3767.1	1907.05	3767.97	1907.07	3793.43	1908
3798.48	1908.99	3798.93	1909.07	3803.92	1910	3805.52	1910.21	3806.37	1910.24
3807.31	1910.29	3808.33	1910.36	3810.64	1910.54	3816.87	1911	3823	1911.31
3823.92	1911.36	3828.91	1911.42	3833.29	1911.44	3836.17	1911.07	3838.67	1910.68
3842.96	1910	3847.3	1909.32	3849.26	1909	3854.18	1908.05	3854.9	1907.9
3861.33	1906.54	3861.54	1906.53	3868.62	1906.43	3872.6	1906.18	3876.08	1906.18
3877.12	1906.21	3878.73	1906.13	3881.52	1906.09	3893.11	1906.2	3898.95	1906.27
3911.35	1906.43	3920.14	1906.62	3932.91	1906.99	3934.7	1906.99	3935.05	1907
4025.4	1907	4041.73	1907.44	4049.05	1907.58	4054.25	1907.66	4056.5	1907.71
4058.26	1907.73	4068.51	1908	4078.1	1908	4079.82	1908.02	4081.54	1908.02
4084.2	1908.11	4084.53	1908.11	4088.37	1908.33	4099.63	1909	4110.56	1908.99
4121.76	1908.99	4140.54	1909	4143.94	1909	4148.46	1910	4149.08	1910.14
4152.98	1911	4157.53	1912.02	4162.04	1913	4171.27	1913	4171.71	1912.94
4177.91	1912	4181.6	1911.43	4183.81	1911.12	4187.28	1910.62	4191.17	1910
4193.41	1909.63	4197.29	1909	4202.48	1908.62	4212.64	1908	4215.71	1907.86
4223.68	1907.53	4224.77	1907.48	4226.62	1907.42	4231.41	1907.19	4235.25	1907.18
4239.15	1907.16	4241.91	1907.16	4245.59	1907.22	4248.52	1907.57	4248.57	1907.57
4252.14	1908	4254.87	1908	4256.31	1908.07	4264.63	1908.45	4267.51	1908.6
4270.38	1908.76	4275.2	1909	4362	1909	4374.17	1909.42	4384.24	1909.76
4406.8	1910	4416.6	1910	4417.96	1910.08	4430.08	1911	4437.49	1911.6
4442.12	1912	4447.84	1912.51	4452.41	1913	4454.76	1913.26	4455.37	1913.34
4460.9	1914	4466.38	1914.68	4468.19	1914.9	4469.1	1915	4469.33	1915
4471.37	1915.07	4474.49	1915.17	4481.26	1915.31	4483.44	1915.37	4494	1916
4497.94	1916.71	4499.48	1917	4504.02	1918	4509.08	1919.13	4513.25	1920
4515.65	1920.51	4517.85	1921	4522.27	1922	4524.82	1922.62	4526.5	1923
4529.98	1923.88	4530.72	1924.06	4534.77	1925	4537.5	1925.68	4538.9	1926
4542.19	1926.81	4543	1927	4552.52	1927.81	4554.7	1928	4566.36	1928
4595.7	1928.21	4623.34	1928.41	4658.11	1928.37	4699.07	1928.31	4700.73	1928.32

4706.59	1928.39	4709.28	1928.43	4711.63	1928.45	4719.15	1928.42	4727.69	1928.38
4728.16	1928.37	4733.37	1928.41	4737.45	1928.38	4742.63	1928.44	4750.12	1928.38
4751.62	1928.37	4754.62	1928.32	4757.51	1928.24	4764.12	1928	4765.73	1927.9
4769.43	1927.82	4772.7	1927.79	4774.26	1927.79	4776.61	1927.76	4780.35	1927.64

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	4780.35	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	4780.35	98.38	98.38	98.38	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1909.24	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.18	Wt. n-Val.		0.040	
W.S. Elev (ft)	1909.05	Reach Len. (ft)	98.38	98.38	98.38
Crit W.S. (ft)		Flow Area (sq ft)		6547.46	
E.G. Slope (ft/ft)	0.003160	Area (sq ft)		6547.46	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3120.05	Top Width (ft)		3120.05	
Vel Total (ft/s)	3.42	Avg. Vel. (ft/s)		3.42	
Max Chl Dpth (ft)	4.09	Hydr. Depth (ft)		2.10	
Conv. Total (cfs)	398461.3	Conv. (cfs)		398461.3	
Length Wtd. (ft)	98.38	Wetted Per. (ft)		3122.52	
Min Ch El (ft)	1904.96	Shear (lb/sq ft)		0.41	
Alpha	1.00	Stream Power (lb/ft s)	4780.35	0.00	0.00
Frctn Loss (ft)	0.29	Cum Volume (acre-ft)		351.60	
C & E Loss (ft)	0.00	Cum SA (acres)		161.71	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -17764.6

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1917.97	148.99	1917.65	150.83	1917.64	157.61	1917.63	172.66	1917.6
175.9	1917.59	177.58	1917.59	178.69	1917.58	181.83	1917.58	187.06	1917.57
187.54	1917.56	189.07	1917.56	204.95	1917.53	209.37	1917.52	216.01	1917.5
229.84	1917.47	232.24	1917.47	260.57	1917.41	260.9	1917.41	280.27	1917.36
291.63	1917.34	300.75	1917.32	307.15	1917.31	310.78	1917.3	312.37	1917.3
313.83	1917.29	316.6	1917.29	319.85	1917.28	345.29	1917.22	347.88	1917.22
359.36	1917.19	370.11	1917.17	372.82	1917.17	372.86	1917.16	377.12	1917.16
377.65	1917.15	388.12	1917.13	392.03	1917.12	409.69	1917.09	426.28	1917.05
430.06	1917.04	440.46	1917.02	442.04	1917.02	442.82	1917.01	445.29	1917.01
452.15	1916.99	466.12	1916.96	471.9	1916.95	475.2	1916.94	478.49	1916.94
528.24	1916.83	634.79	1916.6	635.57	1916.6	706.98	1916.44	725.76	1916.4
729.41	1916.4	732.42	1916.39	734.21	1916.39	741.03	1916.37	743.44	1916.37
745.81	1916.36	748.04	1916.36	749.09	1916.35	784.32	1916.28	848.56	1916.14
849.67	1916.14	864.71	1916.1	878.12	1916.07	879.18	1916.07	890.31	1916.05
900.61	1916.03	901.46	1916.02	901.69	1915.64	902.35	1914.5	905.62	1908.97
906.34	1907.73	906.65	1907.95	907.87	1906	911.12	1906	960.59	1906.26
961.85	1906.26	967.62	1906.3	971.62	1906.32	980.67	1906.38	996.71	1906.46
1008.93	1906.51	1023.09	1906.62	1041.64	1906.77	1047.07	1906.8	1051.01	1906.83
1055.25	1906.87	1058.85	1906.9	1061.36	1906.91	1073.25	1907	1074.83	1907
1079.65	1907.01	1081.25	1907.02	1113.58	1907.19	1113.87	1907.19	1127.83	1907.25
1157.38	1907.3	1183.61	1907.33	1184.33	1907.34	1193.77	1907.34	1198.77	1907.35
1203.59	1907.35	1207.86	1907.36	1232.22	1907.28	1262.98	1907.19	1263.42	1907.18
1264.17	1907.19	1264.76	1907.18	1272.93	1907.15	1276.21	1907.15	1289.5	1907.1
1306.37	1907.01	1313.8	1907.01	1315.79	1907	1400.38	1907	1408.79	1907.01
1464.33	1907.44	1498.77	1907.69	1511.27	1907.8	1528.63	1907.96	1530.59	1907.98
1531.08	1907.98	1533.46	1908	1536.52	1908.18	1536.82	1908.19	1542.89	1908.45
1546.03	1908.58	1550.02	1908.73	1556.58	1909	1562.42	1909.04	1568.73	1909.08
1574.53	1909.05	1577.33	1909.03	1579.91	1909	1581.23	1908.18	1581.54	1908
1582.73	1907	1583.96	1906.14	1584.33	1905.87	1586.45	1905	1588.63	1905
1589.96	1904.99	1600.32	1904.97	1604.54	1904.96	1612.46	1904.95	1639.15	1904.98
1640.07	1904.99	1646.69	1904.99	1648.31	1905	1649.84	1905	1653.53	1905.18
1656	1905.31	1659.62	1905.51	1662.6	1905.67	1666.49	1905.86	1669.27	1906
1677.84	1906.51	1679.64	1906.62	1680.12	1906.66	1685.8	1907	1751.34	1907
1760.55	1906.34	1762.24	1906.25	1763.61	1906.17	1765.68	1906.08	1766.81	1906.07
1767.33	1906.03	1768.34	1906.04	1768.77	1906.03	1771.98	1906.05	1776.91	1906.12
1780.61	1906.19	1782.89	1906.14	1785.12	1906.18	1785.17	1906.17	1791.77	1906.46
1804.22	1907	1979.35	1907	1980.79	1906.95	1980.99	1906.95	1990.57	1906.39
1992.15	1906.33	1993.45	1906.27	1996.85	1906.13	2000.9	1906	2001.74	1905.99
2004.29	1905.91	2008.4	1905.76	2010.61	1905.69	2028.76	1905	2032.55	1905
2035.49	1905.04	2036.04	1905.06	2046.05	1905.07	2102.26	1905.31	2248.5	1906
2250.33	1906.01	2251.92	1906.04	2273.98	1906.4	2275.88	1906.42	2276.76	1906.44
2303.21	1906.77	2310.6	1906.88	2315.5	1906.94	2321.51	1907	2885.14	1907
2890.9	1906.79	2899.46	1906.64	2914.6	1906.29	2919.79	1906.2	2922.65	1906.16
2926.73	1906.11	2928.24	1906.11	2929.15	1906.12	2930.86	1906.09	2931.31	1906.1
2933.06	1906.08	2934.29	1906.11	2936.04	1906.09	2936.23	1906.1	2948.5	1906.05

2948.66	1906.06	2960.23	1906.01	2960.66	1906	3067.99	1906	3076.19	1906.01
3079.11	1906.01	3087.9	1906	3091.33	1906	3093.81	1905.96	3104.88	1905.84
3109.73	1905.78	3109.98	1905.78	3112.41	1905.74	3113.17	1905.76	3116.17	1905.71
3148.05	1905.99	3149.46	1906	3162.25	1906	3217.61	1905.99	3254.66	1905.99
3332.5	1905.98	3375.81	1905.98	3391.95	1905.97	3407.46	1905.97	3494.77	1905.17
3494.95	1905.18	3496.23	1905.15	3499.69	1905.11	3501.79	1905.08	3506.44	1905
3570.52	1905	3574.18	1905.52	3579.69	1906	3585.57	1906.82	3586.45	1906.89
3587.61	1906.95	3589.06	1907.01	3594.12	1907.2	3598.37	1907.38	3599.34	1907.43
3600.1	1907.48	3602.3	1907.58	3602.9	1907.63	3605.87	1907.83	3608.09	1907.99
3608.63	1908.01	3616.13	1908.25	3620.96	1908.36	3622.66	1908.31	3627.01	1908.27
3628.77	1908.28	3633.53	1908.18	3639.97	1908.03	3640.28	1908.03	3640.64	1908
3642.06	1907.99	3643.27	1907.99	3649.73	1907.59	3652.14	1907.49	3654.18	1907.4
3662.96	1907	3665.89	1907	3666.05	1907.02	3673.6	1907.74	3676.46	1907.94
3676.88	1908	3678.4	1908.39	3680.86	1909	3681.28	1909.1	3685.22	1910
3686.17	1910.23	3687	1910.35	3687.46	1910.4	3687.95	1910.43	3688.99	1910.46
3689.72	1910.46	3691.02	1910.43	3691.78	1910.34	3692.51	1910.27	3693.36	1910.26
3696.86	1910.29	3700.66	1910.32	3701.71	1910.39	3703.24	1910.56	3703.76	1910.58
3704.44	1910.63	3707.48	1910.9	3708.34	1911	3711.58	1911.36	3713.7	1911.58
3714.65	1911.65	3715.56	1911.68	3718.78	1911.73	3729.06	1911.76	3732.5	1911.78
3733.69	1911.74	3734.27	1911.7	3735.1	1911.7	3735.71	1911.66	3736.2	1911.65
3737.8	1911.54	3739.55	1911.38	3741.64	1911.16	3742.93	1911	3744.18	1910.81
3745.25	1910.64	3747.17	1910.41	3750.46	1910	3750.78	1909.97	3757.97	1909
3767.36	1908.71	3776.93	1908.37	3787.04	1908	3791.98	1908	3793.84	1908.62
3795.21	1909	3797.38	1909.5	3800.06	1910	3805.69	1910.09	3805.91	1910.1
3808.29	1910.13	3810.22	1910.11	3814.05	1910.06	3816.55	1910.03	3817.92	1910.06
3817.93	1910.07	3818.91	1910	3829.68	1909.28	3832.62	1909	3834.24	1908.56
3836.27	1908	3839.93	1907.02	3840.43	1906.88	3843.35	1906	3845.87	1905.91
3847.4	1905.85	3853.29	1905.64	3860.42	1905.38	3869.79	1905.03	3870.89	1905
3879.84	1905	3881.22	1905.05	3884.52	1905.19	3905.42	1906	3912.54	1906.2
3936.14	1906.99	3964.23	1906.99	3980.07	1907	4027.02	1907	4027.66	1907.13
4031.4	1908	4032.43	1908.22	4036.14	1909	4040.98	1910	4044.49	1910.72
4045.8	1911	4047.2	1911.32	4050.24	1912	4051.26	1912.03	4052.26	1912.05
4053.6	1912.04	4055.22	1912	4058.66	1911.17	4063.34	1910.11	4065.62	1909.59
4067.93	1909.1	4068.57	1908.97	4071.62	1908.96	4078.52	1908.93	4081.79	1908.99
4082.8	1909	4088.45	1909	4092.06	1909.37	4098.26	1910	4104.48	1910.02
4106.52	1910.03	4113.41	1910.01	4115.83	1909.99	4125.84	1909.46	4130.82	1909.2
4134.49	1909	4136.18	1908.85	4136.51	1908.83	4149.71	1908	4159.9	1907.82
4163.92	1907.74	4174.47	1907.52	4176.35	1907.47	4177.97	1907.44	4198.46	1907
4212.95	1907	4223.29	1907.45	4236.26	1908	4241.9	1908.26	4260.16	1909
4416.25	1909	4421.52	1909.16	4428.14	1909.38	4428.92	1909.4	4444.81	1910
4446.39	1910.14	4456.72	1911	4464.75	1911.75	4467.5	1912	4468.63	1912.11
4476.21	1913	4477.87	1913.19	4484.83	1914	4493.5	1915	4494.29	1915.11
4500.15	1916	4505.19	1916.79	4506.56	1917	4508.57	1917.32	4508.79	1917.34
4513.09	1918	4517.87	1918.7	4519.25	1918.82	4522.09	1919	4530.16	1919.52
4530.47	1919.53	4532.02	1919.65	4534.63	1919.89	4535.2	1920	4540.1	1920.98
4540.21	1921	4544.8	1922	4548.29	1922.66	4550.22	1923	4555.36	1923.94
4557.26	1924.28	4560.46	1924.83	4561.47	1925	4565.25	1925.6	4567.84	1926
4568.05	1926.04	4577.55	1927	4587.29	1927.04	4590.69	1927.05	4595.87	1927.07
4596.69	1927.07	4603.2	1927.1	4610.06	1927.08	4624.39	1927.2	4624.47	1927.2
4636.39	1927.02	4637.99	1927	4650.33	1926.67	4655.48	1926.62	4658.86	1926.55
4666.94	1926.31	4668.37	1926.28	4669.61	1926.24	4672.92	1926.15	4674.98	1926.11
4680.88	1926	4682.54	1925.98	4687.85	1925.89	4687.95	1925.89	4696.03	1925.8
4702.7	1925.73	4706.79	1925.71	4722.15	1925.71	4738.64	1925.76	4739.9	1925.77

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	4739.9	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	4739.9	110.89	110.89	110.89	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1908.94	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.17	Wt. n-Val.		0.040	
W.S. Elev (ft)	1908.77	Reach Len. (ft)	110.89	110.89	110.89
Crit W.S. (ft)		Flow Area (sq ft)		6762.57	
E.G. Slope (ft/ft)	0.002806	Area (sq ft)		6762.57	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3092.35	Top Width (ft)		3092.35	
Vel Total (ft/s)	3.31	Avg. Vel. (ft/s)		3.31	
Max Chl Dpth (ft)	3.82	Hydr. Depth (ft)		2.19	
Conv. Total (cfs)	422863.0	Conv. (cfs)		422863.0	
Length Wtd. (ft)	110.89	Wetted Per. (ft)		3096.58	
Min Ch El (ft)	1904.95	Shear (lb/sq ft)		0.38	
Alpha	1.00	Stream Power (lb/ft s)	4739.90	0.00	0.00
Frctn Loss (ft)	0.34	Cum Volume (acre-ft)		336.57	
C & E Loss (ft)	0.00	Cum SA (acres)		154.69	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -17875.5

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1918.29	.69	1918.28	2.28	1918.28	6.11	1918.27	7.59	1918.27
19.27	1918.24	22.52	1918.24	27.41	1918.23	37.6	1918.2	39.38	1918.2
46.47	1918.18	74.89	1918.12	83.31	1918.1	90.18	1918.09	94.83	1918.08
97.53	1918.07	99.94	1918.07	101.86	1918.06	104.27	1918.06	123.22	1918.02
123.62	1918.01	125.16	1918.01	141.75	1917.97	144.99	1917.97	147.39	1917.96
155.22	1917.95	158.15	1917.94	171.38	1917.91	183.84	1917.88	186.68	1917.88
194.5	1917.86	196.32	1917.86	196.5	1917.85	198.14	1917.85	213.83	1917.82
218.19	1917.81	220.68	1917.8	223.16	1917.8	260.82	1917.71	342.06	1917.54
342.66	1917.53	397.57	1917.41	412.08	1917.38	414.9	1917.38	421.36	1917.36
423.89	1917.36	425.76	1917.35	427.59	1917.35	430.13	1917.34	507.57	1917.17
508.44	1917.17	520.21	1917.14	530.72	1917.12	531.56	1917.12	548.39	1917.08
561.48	1917.05	564.07	1917.05	581.71	1917.01	592.4	1916.99	603.88	1916.96
606.07	1916.96	616.25	1916.93	629.69	1916.9	631.99	1916.9	635.75	1916.89
646.61	1916.87	659.46	1916.84	669.99	1916.82	673.9	1916.81	687.71	1916.78
696.23	1916.76	701.79	1916.75	714.55	1916.72	737.73	1916.67	944.78	1915.7
966.38	1908.43	967.79	1907.96	1004.86	1907.45	1005.29	1907.39	1026.72	1906.69
1026.92	1906.66	1047.6	1906	1061.41	1906	1068.49	1906.05	1069.91	1906.05
1073.24	1906.08	1076.04	1906.1	1121.56	1906.44	1123.4	1906.45	1134.01	1906.52
1134.8	1906.52	1143.21	1906.56	1143.86	1906.57	1150.68	1906.6	1151.35	1906.6
1182.61	1906.76	1230.09	1907	1288.66	1907	1292.56	1906.93	1293.23	1906.93
1301.05	1906.79	1302.38	1906.8	1356.38	1906.62	1390.73	1906.51	1392.98	1906.51
1393.57	1906.52	1396.78	1906.52	1396.88	1906.53	1418.35	1906.6	1447.03	1906.7
1447.24	1906.7	1486.95	1906.98	1491.79	1906.99	1500.11	1906.99	1501	1907
1514.05	1907	1545.12	1907.32	1564.99	1907.38	1565.57	1907.39	1574.8	1907.66
1579.02	1907.8	1584.2	1908	1586.2	1908.14	1589.1	1908.36	1597.27	1909
1602.08	1909	1604.76	1908	1607.35	1907	1609.84	1906	1610.53	1905.69
1611.97	1905	1616.02	1904.24	1617.19	1904	1619.5	1903.75	1624.22	1903.26
1625.54	1903.21	1626.48	1903.19	1627.24	1903.2	1631.35	1903.28	1631.81	1903.3
1635.25	1903.39	1642.53	1903.62	1649.12	1903.86	1658.66	1904.36	1659.23	1904.38
1661.34	1904.48	1672.08	1905	1680.67	1905	1685.21	1905.01	1692.14	1905.01
1702.78	1905.14	1726.39	1905.43	1728.03	1905.43	1729.22	1905.44	1751.71	1905.91
1756.14	1906	1832.18	1906	1837.62	1905.81	1849.42	1905.96	1852.42	1906
1853.23	1906	1855.15	1906.02	1869.39	1906.1	1882.11	1906.13	1885.6	1906.15
1890.79	1906.19	1903.76	1906.21	1914.75	1906.24	1919.47	1906.23	1920.09	1906.24
1927.06	1906.24	1929.51	1906.25	1935.07	1906.3	1943.77	1906.39	1950.69	1906.5
1951.36	1906.52	1959.27	1906.64	1964.06	1906.71	1973.36	1906.86	1973.92	1906.86
1982.46	1906.98	1984.08	1907	1999.45	1907	2001.02	1906.93	2003.72	1906.85
2006.01	1906.79	2008.84	1906.7	2018.09	1906.53	2020.87	1906.41	2021.78	1906.38
2027.03	1906	2035.95	1905.7	2043.63	1905.47	2054.6	1905	2058.58	1905
2092.79	1905.24	2152.46	1905.64	2155.14	1905.66	2162.91	1905.71	2165.87	1905.72
2178.16	1905.79	2180.76	1905.81	2194.99	1905.87	2202.88	1905.89	2203.59	1905.9
2224.51	1906	2317.51	1906	2319.53	1906.01	2330.2	1906.14	2344.62	1906.29
2345.3	1906.29	2378.61	1906.55	2436.37	1907	2920.28	1907	2935.34	1906.27
2941.08	1906	2942.61	1905.99	2945.04	1905.91	2946.04	1905.87	2956.01	1905.53
2960.47	1905.39	2963.94	1905.26	2976.15	1905.26	3009.63	1905.71	3011.62	1905.75
3023.21	1906	3070.67	1906	3084.97	1905.76	3100.91	1905.51	3111.66	1905.35
3135.35	1905	3154.48	1905	3188.73	1905.3	3205.36	1905.41	3215	1905.47
3215.75	1905.48	3255.46	1905.74	3257.7	1905.76	3282.86	1905.92	3283.41	1905.92
3295.5	1906	3296.26	1906	3303.2	1906.12	3309.24	1906.21	3314.24	1906.28
3324.59	1906.38	3327.07	1906.42	3336.06	1906.48	3337.66	1906.5	3341.92	1906.5
3347.13	1906.49	3350.03	1906.47	3353.65	1906.46	3355.33	1906.46	3358.34	1906.45
3363.45	1906.44	3370.47	1906.48	3377.15	1906.42	3385.84	1906.33	3386.35	1906.32
3400.32	1906	3403.1	1906	3419.61	1905.58	3423.08	1905.56	3424.49	1905.54
3426.74	1905.49	3470.35	1905.02	3474.54	1905	3597.4	1905	3600.64	1905.48
3604.08	1906	3609.28	1906.73	3610.85	1907	3613.18	1907.36	3617.23	1908
3621.93	1908.77	3623.84	1909	3624.48	1909.17	3628.54	1910	3632.92	1911
3637.04	1911.85	3637.81	1912	3639.31	1912.25	3641.04	1912.47	3642.12	1912.65
3643.27	1912.77	3644.77	1913	3648.9	1913.59	3651.91	1914	3652.81	1914.13
3654.65	1914.29	3655.97	1914.32	3656.39	1914.26	3657.62	1914	3661.76	1913.05
3662.71	1913	3676.01	1912.54	3677.11	1912.47	3682.47	1912	3690.81	1911.25
3693.46	1911	3697.3	1910.61	3699.67	1910.38	3709.43	1909.44	3714.02	1909
3724.77	1908.5	3732.88	1908	3735.59	1908	3739.6	1907.91	3754.24	1907.6
3771.9	1907.36	3780.07	1907.28	3789.14	1907	3797.06	1907	3805.11	1907.64
3807.66	1907.82	3809.25	1907.92	3810.93	1908	3813.18	1908.01	3815.45	1908.08
3823	1908.14	3823.64	1908.14	3835.54	1908.08	3837.58	1908.02	3847.07	1908
3847.92	1908	3848.65	1907.96	3850.32	1907.84	3860.82	1907	3866.61	1906.49
3872.22	1906	3874.72	1905.99	3875.73	1905.96	3879.65	1905.86	3893.79	1905.87
3907.73	1905.89	3909.48	1905.94	3912.39	1906	3913.15	1906.01	3915.38	1906.08
3920.97	1906.23	3921.92	1906.25	3923.87	1906.31	3926.93	1906.42	3927.7	1906.43
3933.99	1906.54	3938.72	1906.57	3940.31	1906.61	3941.66	1906.59	3953.01	1906.8
3954.44	1906.79	3957.55	1906.69	3959.88	1906.6	3962.29	1906.5	3966.48	1906.3
3967.74	1906.25	3972.57	1906	3977.49	1906	3986.43	1905.99	3995.38	1905.99
3997.19	1906	4013.39	1906	4018.74	1906.02	4027.36	1906.04	4028.03	1906.06
4029.15	1906.06	4032.37	1906.1	4034.71	1906.18	4043.54	1906.37	4048.26	1906.44
4051.65	1906.57	4052.85	1906.6	4061.39	1907	4068.09	1907.81	4069.93	1908
4075.82	1908.8	4076.06	1908.81	4076.99	1909	4082.99	1909	4088.48	1909.22
4089.33	1909.24	4092.43	1909.28	4100.77	1909.49	4101.4	1909.52	4103.08	1909.54
4103.67	1909.57	4104.41	1909.57	4105.18	1909.63	4106	1909.61	4107.32	1909.71
4107.67	1909.69	4113.32	1909.47	4125.03	1909	4135.04	1909	4140.44	1909.01
4146.47	1909	4155.07	1909	4158.63	1909.12	4161.51	1909.01	4163.78	1909.02
4164.89	1909.01	4167.54	1909	4180.43	1908.13	4182.2	1908	4186.92	1907.71
4199.83	1907	4223.7	1906.99	4228.1	1906.99	4247.1	1907	4275.49	1907
4286.78	1907.13	4313.67	1907.43	4314.08	1907.44	4319.63	1907.4	4325.92	1907.36
4326.59	1907.36	4331.55	1907.4	4338	1907.46	4348.15	1907.62	4351.58	1907.69

4357.19	1907.79	4364.88	1907.94	4366.26	1907.97	4368.21	1908	4379.55	1908
4390.69	1907.86	4395.18	1907.85	4396.13	1907.84	4403.5	1907.99	4417.03	1907.99
4432.46	1908	4434.91	1908	4435.33	1908.03	4450.84	1909	4462.05	1909.95
4463.49	1910.06	4475.28	1911	4488.19	1912	4495.38	1912.55	4501.35	1913
4504.38	1913.38	4508.9	1914	4517.21	1916	4520.83	1916.88	4529.8	1919
4530.4	1919.15	4532.29	1919.36	4534.58	1919.6	4536.97	1919.98	4537.51	1920
4541.49	1920.7	4543.4	1921.07	4548.1	1922	4550.75	1922.51	4553.02	1923
4560.69	1923.36	4563.55	1923.38	4576.45	1923.42	4588.02	1923.44	4589.66	1923.43
4590.34	1923.41	4591.73	1923.4	4595.3	1923.33	4598.12	1923.32	4601.35	1923.27
4604.88	1923.28	4607.04	1923.28	4608.66	1923.29	4617.25	1923.31	4634.95	1923.59
4636.33	1923.64	4637	1923.64	4638.42	1923.69	4640.54	1923.74	4641.79	1923.76
4646.06	1923.88	4650.72	1924	4658.5	1924	4662.57	1924.15	4671.15	1924.47
4673.63	1924.5	4682.94	1924.54	4683.56	1924.55	4689.7	1924.59	4696.89	1924.64
4714.36	1924.94	4728.52	1924.94	4733.84	1924.99	4735.63	1925	4747.19	1925

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	4747.19	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	4747.19	37.92	37.92	37.92	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1908.60	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.18	Wt. n-Val.		0.040	
W.S. Elev (ft)	1908.42	Reach Len. (ft)	37.92	37.92	37.92
Crit W.S. (ft)		Flow Area (sq ft)		6574.78	
E.G. Slope (ft/ft)	0.003293	Area (sq ft)		6574.78	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3252.07	Top Width (ft)		3252.07	
Vel Total (ft/s)	3.41	Avg. Vel. (ft/s)		3.41	
Max Chl Dpth (ft)	5.23	Hydr. Depth (ft)		2.02	
Conv. Total (cfs)	390369.0	Conv. (cfs)		390369.0	
Length Wtd. (ft)	37.92	Wetted Per. (ft)		3253.82	
Min Ch El (ft)	1903.19	Shear (lb/sq ft)		0.42	
Alpha	1.00	Stream Power (lb/ft s)	4747.19	0.00	0.00
Frctn Loss (ft)	0.12	Cum Volume (acre-ft)		319.59	
C & E Loss (ft)	0.00	Cum SA (acres)		146.62	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -17913.4

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1918.61	6.27	1918.6	11.62	1918.59	13.62	1918.58	20.67	1918.57
25.03	1918.56	27.88	1918.55	34.45	1918.54	46.42	1918.51	735.32	1915.49
961.42	1914.5	963.23	1913.89	966.18	1913.85	968.57	1913.52	971.15	1913.43
973.31	1913.19	977.16	1913.07	978.36	1912.97	980.45	1912.9	981.37	1912.82
983.8	1912.74	984.59	1912.67	987	1912.58	988.13	1912.5	992.42	1912.36
993.57	1912.28	999.04	1912.1	1003.05	1911.84	1048.71	1909.61	1052.83	1909.38
1123.4	1905.99	1129.86	1905.99	1137.67	1906	1141.83	1906	1149.27	1906.01
1156.8	1906.01	1171.17	1906.02	1172.24	1906.03	1174.49	1906.03	1200.82	1906.05
1221.37	1906.05	1249.83	1906.02	1258.48	1906.02	1277.32	1906	1372.43	1906
1403.5	1906.26	1419.82	1906.39	1421.45	1906.4	1426.37	1906.44	1430.79	1906.48
1436.99	1906.53	1473.96	1906.78	1485.19	1906.86	1486.05	1906.85	1486.95	1906.85
1490.9	1906.9	1493.98	1906.93	1498.03	1906.96	1499.19	1906.96	1499.67	1906.97
1501.72	1906.97	1512.53	1906.99	1514.72	1907	1519.89	1907	1529.46	1907.16
1538.44	1907.3	1539.19	1907.33	1540.14	1907.35	1540.7	1907.37	1550.92	1907.55
1552	1907.57	1552.78	1907.59	1554.73	1907.63	1556.75	1907.66	1557.02	1907.67
1563.9	1907.78	1564.39	1907.79	1571.71	1908	1579.27	1908	1584.08	1908.57
1587.73	1909	1601.15	1909	1603.3	1908.44	1604.54	1908.12	1605.04	1908
1605.34	1907.91	1608.52	1907	1611.7	1906.08	1612.09	1905.96	1615.43	1905
1617.05	1904.44	1618.37	1904	1625.98	1903.41	1631.29	1903	1654.34	1903
1655.31	1903.06	1671.45	1904	1693.42	1904.66	1693.88	1904.67	1696.03	1904.73
1698.94	1904.82	1704.91	1904.98	1705.73	1905	1743.86	1905	1745.48	1905.24
1745.99	1905.29	1748.66	1905.66	1749.86	1905.77	1750.54	1905.81	1751.38	1905.85
1752.63	1905.89	1752.74	1905.9	1755.49	1905.92	1757.29	1905.99	1759.45	1906
1761.47	1906.17	1761.84	1906.23	1762.14	1906.23	1762.44	1906.32	1763.05	1906.58
1763.3	1906.66	1767.47	1906.55	1771.02	1906.84	1773.06	1906.84	1783.43	1906.74
1787.71	1906.99	1792.04	1907	1809.41	1907	1812.17	1906.93	1814.86	1906.81
1824.57	1906.87	1825.26	1906.81	1832.13	1906.52	1833.89	1906	1838.52	1905.48
1844.51	1905	1913.18	1905	1920.81	1905.15	1924.12	1905.22	1934.27	1905.43
1940.38	1905.55	1950.51	1905.77	1952.67	1905.82	1953.82	1905.84	1960.72	1906
1992.35	1906	1997	1905.82	1997.54	1905.79	1998.23	1905.77	2000.88	1905.65
2005.89	1905.41	2008.48	1905.29	2009.41	1905.24	2014.98	1905	2095.81	1905
2119.24	1905.17	2121.06	1905.19	2122.05	1905.19	2123.82	1905.2	2124.33	1905.21
2126	1905.22	2126.99	1905.22	2128.56	1905.24	2129.27	1905.24	2131.19	1905.26
2137.32	1905.29	2151.28	1905.4	2158.91	1905.44	2168.12	1905.48	2168.64	1905.48
2174.87	1905.51	2183.36	1905.58	2225.13	1905.78	2240.14	1905.85	2248.19	1905.88

2250.22	1905.88	2251.3	1905.89	2261.64	1905.89	2263.26	1905.9	2267.23	1905.9
2288.07	1906	2381.29	1906	2413.04	1906.34	2416.3	1906.38	2424.74	1906.47
2440.4	1906.64	2467.18	1906.91	2468.59	1906.93	2475.56	1907	2720.13	1907
2726.28	1906.99	2727.74	1906.99	2730.98	1906.98	2742.35	1906.98	2754.1	1906.97
2762.28	1906.96	2768.95	1906.96	2769.53	1906.95	2771.3	1906.95	2779.12	1906.94
2783.69	1906.94	2801.08	1906.95	2805.48	1906.95	2812.18	1906.96	2823.43	1906.96
2824.37	1906.97	2836.86	1906.97	2871.54	1907	2905.51	1907	2908.19	1906.96
2909.07	1906.96	2922.63	1906.5	2930.11	1906.35	2936.73	1906	2941.56	1905.79
2942.29	1905.79	2950.72	1905.5	2951.32	1905.5	2952.33	1905.47	2957.16	1905.36
2971.69	1905.42	2992.45	1905.51	2997	1905.59	3003.13	1905.69	3006.35	1905.72
3022.07	1906	3049.66	1906	3053.65	1905.97	3053.79	1905.96	3054.59	1905.96
3056.15	1905.93	3059.15	1905.87	3065.88	1905.71	3065.98	1905.71	3073.01	1905.55
3073.12	1905.55	3077.84	1905.47	3081.38	1905.42	3081.59	1905.42	3084.29	1905.38
3111.24	1905.01	3150.27	1905.01	3195.08	1905	3199.44	1905	3200	1905.01
3283.4	1905.76	3287.3	1905.8	3291.66	1905.86	3292.04	1905.86	3300.5	1906
3301.8	1906	3315.63	1906.38	3337.76	1907	3376.33	1907	3377.68	1906.95
3381.65	1906.83	3405.6	1906.04	3410.12	1906	3410.58	1906	3413.63	1905.94
3418.39	1905.85	3443.74	1905.43	3469.19	1905	3609	1905	3611.03	1905.46
3613.6	1906.08	3616.88	1906.79	3618.15	1907.05	3620.99	1907.66	3622.62	1908
3626.36	1908.74	3627.63	1909	3628.59	1909.19	3632.94	1910	3635.76	1910.48
3639.4	1911	3642	1911.79	3642.72	1912	3643.85	1912.31	3646.42	1913
3648	1913.44	3648.74	1913.58	3649.36	1913.67	3651.8	1914	3655.96	1914.52
3656.52	1914.6	3659.05	1915	3662	1915	3662.52	1914.94	3664.02	1914.78
3667.36	1914.4	3671.91	1913.89	3678.66	1913.16	3680.06	1913	3686.19	1912.36
3689.66	1912	3689.79	1912	3695.53	1911.59	3698.21	1911.42	3699.98	1911.3
3704.7	1911	3714.9	1910.3	3719.39	1910	3725.27	1909.6	3736.23	1909
3738.47	1908.89	3739.4	1908.86	3745.57	1908.61	3745.87	1908.59	3755.64	1908
3764.94	1907.8	3766.03	1907.77	3772.65	1907.64	3773.4	1907.62	3776.03	1907.56
3777.1	1907.53	3777.51	1907.53	3787	1907.29	3787.77	1907.29	3797.95	1907.05
3801.91	1907.06	3803.97	1907.06	3804.84	1907.05	3806.03	1907.06	3816.68	1907.06
3816.76	1907.05	3820.16	1907.05	3821.93	1907.12	3830.5	1907.37	3838.68	1907.42
3844.03	1907.41	3849.28	1907.38	3855.22	1907.33	3865.5	1907.07	3867.11	1907.02
3868.23	1907.02	3869.91	1907.01	3872.5	1907.01	3874.08	1907	3879.05	1906.31
3881.39	1906	3882.41	1905.89	3884.59	1905.77	3886.29	1905.69	3890.18	1905.58
3891.34	1905.55	3892.07	1905.51	3892.44	1905.53	3907.24	1905.94	3908.9	1905.98
3918.69	1905.98	3938.85	1905.64	3939.74	1905.63	3941.01	1905.64	3941.43	1905.63
3942.08	1905.64	3944.89	1905.64	3945.5	1905.63	3946.2	1905.63	3952.04	1905.6
3959.34	1905.6	3959.59	1905.61	3960.56	1905.61	3961.56	1905.62	3962.09	1905.61
3964.72	1905.67	3965.97	1905.65	3997.84	1905.98	4022.22	1905.98	4025.31	1905.99
4046.38	1905.99	4051.76	1906	4053.05	1906	4054.81	1906.9	4055.67	1907.32
4056.99	1908	4059.14	1909.01	4061	1910	4062.15	1910.65	4062.86	1911
4064.32	1911.93	4065.42	1912.54	4066.3	1913	4074.92	1913	4076.25	1912.92
4077.5	1912.83	4078.01	1912.8	4079.27	1912.69	4080.81	1912.58	4081.44	1912.55
4082.58	1912.48	4083.52	1912.4	4084.6	1912.28	4086.23	1912.09	4086.88	1912
4087.86	1911.84	4092.67	1911	4095.46	1910.1	4095.91	1909.97	4099.33	1909
4101.7	1908.33	4102.83	1908	4104.81	1908	4106.09	1908.41	4106.43	1908.44
4108.46	1908.52	4115.11	1908.66	4115.25	1908.67	4121.07	1908.99	4122.09	1908.99
4122.38	1909	4139.7	1909	4143.93	1909.01	4145.79	1909.01	4149.88	1909
4169.19	1909	4169.89	1908.98	4172.13	1908.87	4179.96	1908.51	4180.92	1908.47
4191.77	1908	4199.95	1907.67	4203.3	1907.53	4213.27	1907	4222.67	1906.99
4228.35	1906.99	4234.2	1906.98	4248.63	1906.96	4255.67	1906.96	4262.66	1906.98
4266.11	1906.98	4268.3	1906.99	4274.16	1906.99	4275.78	1907	4349.67	1907
4361.57	1907.01	4368.2	1907.01	4380.03	1907	4404.28	1907	4408.49	1907.12
4416.64	1907.35	4436.34	1908	4445.55	1908.51	4447.2	1908.6	4449.61	1908.75
4454.19	1909	4460.31	1909.67	4465.85	1910.22	4473.95	1911	4480.17	1911.52
4486.45	1912	4496.43	1912.94	4497.12	1913.02	4498.01	1913.14	4504.44	1914
4505.72	1914.24	4509.33	1915	4511.75	1915.52	4514.06	1916	4519.74	1917.17
4523.84	1918	4524.32	1918.1	4528.84	1919	4528.86	1919	4532.06	1919.59
4534.06	1919.95	4534.3	1920	4538.34	1920.71	4540.03	1921	4542.17	1921.34
4545.76	1922	4550.62	1922.87	4551.72	1923	4579.16	1923	4584.39	1922.98
4586.09	1922.99	4589.26	1923	4596.74	1923.01	4615.19	1923.01	4626.46	1923.02
4637.71	1923.02	4652.24	1923.43	4652.75	1923.45	4654.13	1923.47	4654.31	1923.48
4663.55	1923.63	4671.95	1923.82	4678.88	1923.99	4679.36	1924	4680.58	1924.04

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	4680.58	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	4680.58	69.26	69.26	69.26	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1908.48	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.17	Wt. n-Val.		0.040	
W.S. Elev (ft)	1908.31	Reach Len. (ft)	69.26	69.26	69.26
Crit W.S. (ft)		Flow Area (sq ft)		6705.19	
E.G. Slope (ft/ft)	0.002889	Area (sq ft)		6705.19	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3095.52	Top Width (ft)		3095.52	
Vel Total (ft/s)	3.34	Avg. Vel. (ft/s)		3.34	
Max Chl Dpth (ft)	5.31	Hydr. Depth (ft)		2.17	
Conv. Total (cfs)	416779.1	Conv. (cfs)		416779.1	
Length Wtd. (ft)	69.26	Wetted Per. (ft)		3097.93	
Min Ch El (ft)	1903.00	Shear (lb/sq ft)		0.39	
Alpha	1.00	Stream Power (lb/ft s)	4680.58	0.00	0.00
Frctn Loss (ft)	0.19	Cum Volume (acre-ft)		313.81	
C & E Loss (ft)	0.00	Cum SA (acres)		143.85	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -17982.7

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1917.52	181.67	1916.78	214.09	1916.64	223.94	1916.6	224.74	1916.6
357.09	1916.06	408.07	1915.85	424.65	1915.78	430.41	1915.76	431.61	1915.76
678.97	1914.75	887.92	1913.89	952.86	1913.63	954.69	1911.19	960.04	1905
961.02	1905	975.8	1905.09	976.07	1905.09	1069.54	1905.54	1102.07	1905.68
1102.41	1905.69	1104.07	1905.69	1104.72	1905.7	1105.66	1905.7	1110.13	1905.72
1121.21	1905.73	1132.5	1905.73	1133.4	1905.74	1144.21	1905.74	1194.12	1905.98
1215.62	1905.98	1225.39	1905.97	1228.46	1905.98	1239.68	1905.98	1247.34	1905.99
1250.71	1905.99	1262.18	1906	1504.86	1906	1525.02	1906.41	1533.82	1906.58
1535.07	1906.61	1560.78	1906.96	1562.12	1906.96	1564.01	1906.97	1566.86	1906.98
1568.76	1906.98	1574.98	1906.99	1576.1	1907	1577.7	1907	1579.01	1907.01
1587.79	1907.01	1590.7	1907.02	1593.46	1907.01	1600.69	1907	1601.51	1906.64
1602.87	1906	1604.9	1905	1605.43	1904.77	1607.06	1904	1625.23	1903.99
1629.48	1903.99	1636.98	1904	1652.67	1904	1663.07	1904.35	1664.36	1904.4
1666.12	1904.46	1668.58	1904.54	1679.35	1904.9	1682.67	1905	1704.33	1905
1707.27	1904.92	1713.34	1904.74	1713.46	1904.74	1717.68	1904.61	1718.66	1904.59
1728.12	1904.41	1733.5	1904.34	1736	1904.42	1740.36	1904.59	1744.29	1905
1750.74	1905.7	1752.24	1906	1753.76	1906.37	1757.13	1907	1760.15	1907.44
1769.93	1907.77	1771.38	1907.84	1771.87	1907.85	1773.41	1907.98	1773.85	1907.98
1774.27	1908	1774.83	1908	1777.31	1908.01	1777.93	1908.01	1780.4	1908
1781.26	1907.83	1782.07	1907.64	1785.23	1907	1821.28	1907	1824.64	1906.85
1838.76	1906.16	1839.9	1906.11	1840.44	1906.08	1842.04	1906	1845.05	1905.87
1863.06	1905	2120.82	1905	2166.15	1905.23	2218.51	1905.48	2218.74	1905.48
2223.35	1905.5	2224.06	1905.51	2231.44	1905.51	2238.64	1905.54	2245.03	1905.57
2248.43	1905.57	2304.59	1905.85	2334.26	1906	2387.3	1906	2388.01	1906.01
2397.78	1906.11	2397.9	1906.12	2398.89	1906.13	2399.85	1906.13	2400.81	1906.14
2401.14	1906.15	2402.88	1906.17	2429.12	1906.48	2441.19	1906.62	2446.84	1906.66
2451.36	1906.69	2451.54	1906.69	2455.67	1906.72	2459.18	1906.74	2468.56	1906.75
2478.25	1906.77	2481.51	1906.77	2497.37	1907	2609.71	1907	2642.66	1906.99
2647.65	1906.99	2647.88	1907	2667.23	1907	2670.55	1906.99	2679.86	1906.99
2685.23	1907	2690.38	1907	2692.61	1906.99	2695.81	1906.99	2696.43	1906.98
2696.83	1906.98	2703.28	1906.98	2708.53	1906.96	2710.65	1906.96	2740.4	1906.9
2751.79	1906.9	2760.76	1906.89	2804.09	1906.99	2806.12	1906.99	2808.45	1907
2829.14	1907	2856.1	1906.85	2882.08	1906.74	2882.44	1906.74	2883.41	1906.72
2883.69	1906.71	2887.34	1906.73	2890.35	1906.68	2895.16	1906.7	2897.3	1906.7
2902.31	1906.54	2902.85	1906.54	2903.58	1906.53	2914.47	1906.12	2914.81	1906.12
2918.01	1906	2928.43	1905.62	2929.71	1905.57	2945.62	1905.03	2947.5	1905
2977.34	1905	2978.42	1905.01	2986.75	1905.14	2991.57	1905.21	2992.84	1905.22
2994.84	1905.25	2995.59	1905.25	2996.14	1905.27	3022.34	1905.27	3050.9	1905.2
3052.45	1905.16	3053.66	1905.14	3053.71	1905.13	3054.54	1905.12	3057.45	1905.07
3058.29	1905.06	3060.29	1905.03	3063.06	1905	3219.96	1905	3226.62	1905.06
3229.32	1905.06	3230.77	1905.08	3230.85	1905.09	3243.98	1905.09	3244.88	1905.1
3250.28	1905.1	3251.14	1905.12	3259.37	1905.14	3259.58	1905.15	3263.4	1905.17
3266.12	1905.19	3266.42	1905.2	3267.18	1905.21	3278.59	1905.35	3282.64	1905.4
3289.99	1905.5	3296.55	1905.59	3306.55	1905.77	3308.8	1905.81	3309.74	1905.82
3310.03	1905.83	3316.87	1905.98	3318.6	1905.98	3319.67	1906	3326.16	1906.15
3326.46	1906.14	3343.8	1906	3347.3	1906	3347.99	1906.01	3349.87	1906.01
3355.13	1906.05	3379.72	1906.24	3380.23	1906.24	3381.13	1906.23	3387.6	1906.17
3389.45	1906.15	3397.39	1906.1	3398.05	1906.09	3401.2	1906.07	3402.29	1906.07
3406.92	1906.13	3407.41	1906.13	3407.48	1906.14	3408.16	1906.14	3408.92	1906.16
3409.54	1906.17	3412.21	1906.24	3413.3	1906.26	3414.74	1906.3	3415.59	1906.32
3427.85	1906.48	3436.71	1906.51	3436.92	1906.51	3439.51	1906.42	3439.94	1906.42
3444.39	1906.3	3444.54	1906.3	3447.28	1906.18	3450.7	1906	3450.79	1906
3451.77	1905.94	3466.09	1905	3605.07	1905	3605.78	1905.09	3612.33	1906
3619.53	1906.96	3619.99	1907.03	3627.4	1908.5	3629.72	1909	3634.31	1909.82
3635.12	1909.9	3636.3	1910	3646.24	1910.72	3650.04	1911	3651.59	1911.03
3652.67	1911.03	3654.42	1911.01	3654.69	1911	3688.93	1911	3695.44	1910.98
3696.82	1910.98	3700.05	1910.99	3700.88	1910.99	3704.61	1910.85	3705.16	1910.87
3707.23	1911	3714	1911.59	3717.58	1911.93	3718.46	1912	3724.36	1912.44
3724.77	1912.45	3724.91	1912.44	3726.7	1912.39	3729.2	1912.22	3729.23	1912.22
3730.82	1912	3731.21	1911.94	3736.91	1911	3753.57	1910.17	3755.99	1910.1
3757.51	1910.11	3758.5	1910.03	3758.65	1910.05	3759.07	1910.02	3759.97	1910.04
3760.87	1910.08	3762.18	1910.17	3764.18	1910.33	3766.47	1910.39	3768.31	1910.56
3772.61	1911	3772.74	1911	3774.72	1911.74	3774.97	1911.84	3775.42	1912
3777.69	1912.61	3778.17	1912.71	3779.73	1913	3783.74	1913.71	3785.32	1914
3788.42	1914.55	3788.73	1914.6	3790.48	1914.92	3791.31	1915.06	3792.48	1915.21
3792.99	1915.13	3794.26	1915.22	3795.62	1915.12	3796.49	1915	3797.31	1914.7
3799.03	1914	3801.67	1913.06	3803.08	1912.52	3804.46	1912	3805.4	1911.55
3806.81	1911	3807.49	1910.66	3809.35	1910	3811.69	1909.04	3812.41	1908.8
3814.91	1908	3815.89	1907.69	3817.97	1907	3818.35	1906.94	3819.03	1906.81
3820.61	1906.68	3826.83	1906.02	3827.37	1906.02	3827.81	1906	3838.14	1906
3841.41	1906.01	3842.07	1906	3842.46	1906.02	3842.75	1906.02	3844.2	1906
3844.69	1906	3854.29	1906.01	3858.23	1906	3878.92	1906	3897.13	1905.54
3900.85	1905.43	3901.44	1905.41	3902.72	1905.38	3912.47	1905.01	3919.82	1905.01
3925.22	1905	3945.4	1905	3946.38	1905.01	3948.99	1905.01	3951.62	1905.02

3983.39	1905.62	3995.88	1905.84	3996.26	1905.85	4003.66	1905.94	4004.16	1905.95
4008.89	1906	4017.92	1906.54	4026.4	1907	4028.15	1907.15	4032.37	1907.49
4038.58	1908	4045.87	1908.57	4048.72	1908.72	4055.94	1909	4112.17	1909
4120.63	1908.99	4123.23	1908.99	4133.57	1909	4170.84	1909	4186.05	1908.36
4195.5	1908	4203.85	1907.59	4217.22	1907	4222.28	1906.98	4224.76	1906.96
4233.43	1906.92	4234.89	1906.91	4239.57	1906.89	4240.29	1906.88	4253.44	1906.95
4254.98	1906.96	4255.42	1906.96	4263.77	1907	4275.59	1907.39	4276.38	1907.42
4277.99	1907.46	4278.83	1907.5	4279.98	1907.52	4280.75	1907.55	4282.08	1907.61
4300.99	1907.95	4301.46	1907.97	4303.24	1908	4303.6	1908	4304.92	1908.04
4305.93	1908.08	4306.88	1908.13	4310.1	1908.27	4312.35	1908.35	4312.7	1908.35
4322.36	1908.06	4322.75	1908.05	4324.09	1908	4333.96	1907.91	4334.08	1907.92
4336.13	1907.91	4338.45	1907.91	4346.19	1907.85	4346.94	1907.84	4373.25	1907.75
4396.02	1907.72	4397.15	1907.74	4400.09	1907.69	4404.58	1907.6	4405.85	1907.64
4405.96	1907.63	4411.21	1907.73	4411.84	1907.72	4415.58	1907.81	4419.38	1907.99
4420	1908	4427.54	1908.55	4431.74	1908.85	4433.73	1909	4433.9	1909.01
4435.92	1909.18	4445.86	1910	4451.1	1910.79	4452.12	1910.95	4452.67	1911.03
4455.11	1911.37	4458.26	1911.78	4459.8	1912	4461.55	1912.23	4467.27	1913
4471.56	1913.57	4479.2	1915	4483.38	1915.8	4489.78	1916.99	4489.85	1917
4494.65	1917.85	4495.53	1918	4498.39	1918.34	4501.9	1919	4506.7	1919.55
4510.74	1920	4519.77	1920.99	4520.41	1921.03	4535.39	1921.71	4539.4	1921.88
4541.94	1922	4542.58	1922	4543.13	1922.01	4557.84	1922.21	4569.68	1922.34
4576.23	1922.36	4582.47	1922.37	4583.12	1922.37	4583.33	1922.36	4583.74	1922.37
4584.02	1922.36	4591.3	1922.34	4593.51	1922.34	4597.39	1922.35	4601.66	1922.37
4602.17	1922.38	4603.05	1922.38	4623.03	1922.66	4647.35	1923	4721.98	1923

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	4721.98	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	4721.98	104.69	104.69	104.69	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1908.29	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.17	Wt. n-Val.		0.040	
W.S. Elev (ft)	1908.12	Reach Len. (ft)	104.69	104.69	104.69
Crit W.S. (ft)		Flow Area (sq ft)		6834.55	
E.G. Slope (ft/ft)	0.002727	Area (sq ft)		6834.55	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3109.22	Top Width (ft)		3109.22	
Vel Total (ft/s)	3.28	Avg. Vel. (ft/s)		3.28	
Max Chl Dpth (ft)	4.13	Hydr. Depth (ft)		2.20	
Conv. Total (cfs)	428923.0	Conv. (cfs)		428923.0	
Length Wtd. (ft)	104.69	Wetted Per. (ft)		3112.49	
Min Ch El (ft)	1903.99	Shear (lb/sq ft)		0.37	
Alpha	1.00	Stream Power (lb/ft s)	4721.98	0.00	0.00
Frctn Loss (ft)	0.26	Cum Volume (acre-ft)		303.05	
C & E Loss (ft)	0.01	Cum SA (acres)		138.92	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -18087.4

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1914.89	32.14	1914.48	46.84	1914.48	48.34	1914.47	50.07	1914.47
55.35	1914.45	56.57	1914.44	58.5	1914.44	59.95	1914.43	60.44	1914.43
63.5	1914.42	64.73	1914.42	65.41	1914.41	66.33	1914.41	69.02	1914.4
69.72	1914.4	76.91	1914.37	79.48	1914.37	79.89	1914.36	83.88	1914.35
93.78	1914.32	95.18	1914.31	95.92	1914.31	106.17	1914.27	107.58	1914.27
117.88	1914.23	119.28	1914.23	129.43	1914.2	130.17	1914.19	139.95	1914.16
141.45	1914.15	150.64	1914.12	151.86	1914.12	160.17	1914.09	163.18	1914.08
163.47	1914.08	175.89	1914.04	178.27	1914.03	181.36	1914.02	187.05	1914
194.22	1913.97	196.8	1913.97	199.48	1913.96	200.07	1913.95	202.43	1913.95
458.79	1913.07	460.22	1913.07	460.54	1913.06	462.48	1913.06	464.55	1913.05
472.33	1913.02	481.49	1912.99	482.67	1912.99	500.58	1912.93	510.87	1912.89
521.09	1912.86	521.71	1912.85	522.57	1912.85	525.94	1912.84	527.11	1912.84
531.17	1912.82	536.14	1912.81	554.39	1912.74	600.2	1912.59	601.55	1912.58
603.07	1912.58	604.5	1912.57	605.89	1912.57	616.02	1912.53	673.82	1912.34
692.02	1912.27	699.35	1912.25	704.3	1912.23	705.6	1912.23	912.77	1911.52
915.15	1908.82	919.56	1907.18	919.72	1907.09	920	1907.02	920.09	1906.96
920.55	1906.88	920.78	1906.74	922.13	1906.59	922.76	1906.26	930.79	1905.76
930.89	1905.73	933.39	1905.59	933.79	1905.57	933.8	1905.56	934.22	1905.55
934.23	1905.54	934.68	1905.53	934.69	1905.52	935.11	1905.51	935.44	1905.42
947.95	1904.99	952.83	1905	1175.05	1905	1183.16	1905.05	1183.41	1905.04
1183.9	1905.04	1184.22	1905.05	1187.09	1905.05	1187.47	1905.06	1187.66	1905.06
1200.24	1905.08	1205.01	1905.08	1209.78	1905.09	1209.98	1905.09	1223.37	1905.11
1225.75	1905.12	1237.52	1905.11	1246.79	1905.1	1250.35	1905.1	1253.8	1905.09
1254.78	1905.1	1259.91	1905.1	1267.21	1905.13	1274.12	1905.15	1274.36	1905.15
1275.04	1905.16	1276.65	1905.16	1280.84	1905.2	1280.92	1905.2	1284.51	1905.24

1310.01	1905.69	1327.07	1905.99	1327.81	1905.99	1390.68	1906	1454.06	1906
1461.61	1906.69	1465.01	1907	1510.68	1907	1511.02	1906.98	1523.24	1906.47
1534.09	1906	1537.51	1905.81	1537.94	1905.78	1538.29	1905.76	1549.82	1905
1565.02	1904.36	1573.28	1904	1579.06	1903.82	1580.68	1903.79	1593.07	1903.43
1610.35	1903.21	1618.83	1903.1	1620.97	1903.06	1622.58	1903.04	1623.99	1903.03
1624.48	1903.02	1625.86	1903.02	1626.1	1903.01	1627.76	1903.01	1628.37	1903.02
1628.79	1903.02	1629.16	1903.03	1629.97	1903.03	1631.3	1903.04	1632.72	1903.06
1641.52	1903.16	1643.29	1903.19	1658.05	1903.37	1660.83	1903.4	1664.64	1903.45
1666.87	1903.48	1668.25	1903.5	1669.27	1903.51	1670.64	1903.53	1690.23	1903.99
1708.53	1903.99	1710.82	1904	1714	1904	1729.05	1904.49	1733.29	1904.64
1744.79	1905	1874.23	1905	1879.31	1904.9	1879.5	1904.89	1888.94	1904.68
1889.31	1904.68	1898.16	1904.51	1899.33	1904.51	1921.96	1904.41	1941.24	1904.44
1943.24	1904.44	1944.78	1904.45	1954.56	1904.58	1974.59	1904.91	1975.37	1904.92
1978.53	1905	2157.41	1905	2175.96	1904.99	2193.64	1905	2204.99	1905
2209.13	1905.01	2215.2	1905.01	2216.75	1905.03	2252.28	1905.55	2252.55	1905.55
2258.83	1905.63	2263.21	1905.69	2267	1905.73	2267.18	1905.73	2279.81	1905.75
2291.27	1905.76	2292.01	1905.76	2294.11	1905.74	2296.55	1905.72	2297.2	1905.71
2298.54	1905.71	2298.67	1905.7	2299.08	1905.7	2332.46	1905.34	2371.84	1905.83
2372.32	1905.83	2372.9	1905.84	2373.74	1905.86	2380.41	1906	2382.08	1906
2383.18	1906.02	2383.63	1906.04	2392.05	1906.25	2397.51	1906.37	2397.61	1906.38
2397.86	1906.37	2398.07	1906.37	2442.06	1907	2535.61	1907	2538.05	1906.99
2602.56	1906.68	2606.53	1906.71	2606.81	1906.71	2608.79	1906.72	2614.8	1906.76
2621.47	1906.8	2621.7	1906.8	2644.67	1907	2655.5	1907	2659.9	1907.06
2660.52	1907.06	2664.77	1907.07	2671.4	1907.05	2681.39	1907.01	2682.74	1907
2684.67	1907	2685.03	1906.99	2690.28	1906.88	2691.01	1906.86	2691.55	1906.85
2709.26	1906.55	2716	1906.39	2730.24	1906.04	2731.64	1906	2853.42	1906
2854.42	1905.99	2855.77	1905.99	2857.04	1905.98	2859.16	1905.97	2888.18	1905.1
2891.63	1905	3266.28	1905	3272.4	1905.11	3273.14	1905.12	3275.76	1905.19
3276.22	1905.19	3276.46	1905.2	3279.95	1905.3	3282.14	1905.37	3285.71	1905.49
3286.47	1905.51	3301.23	1906	3307.77	1906.44	3309.01	1906.52	3314.21	1906.86
3314.5	1906.87	3316.61	1907	3357.1	1907	3361.68	1906.8	3362.08	1906.79
3380.01	1906	3381.01	1906	3382.98	1905.93	3385.25	1905.86	3386.91	1905.8
3411.73	1905	3569.84	1905	3573.12	1905.26	3581.55	1906	3592.43	1906.84
3594.69	1907	3594.82	1907	3596.9	1907.13	3602.72	1907.47	3603.4	1907.51
3607.23	1907.73	3612.26	1908	3634.94	1908.37	3636.24	1908.39	3656.5	1908.67
3662	1908.75	3669.03	1908.86	3678.39	1909	3682.13	1909.62	3684.19	1910
3688.59	1910.71	3689.42	1910.89	3690	1911	3692.95	1911.24	3696.32	1911.52
3698.16	1911.66	3701.55	1911.92	3702.6	1912	3714.69	1913	3714.84	1913
3718.88	1913.05	3725.08	1913.08	3736.75	1913.15	3737.32	1913.15	3741.84	1913.11
3742.08	1913.1	3742.45	1913.1	3743.82	1913.09	3751.77	1913.03	3753.14	1913.01
3754.94	1913	3755.46	1912.88	3756.18	1912.7	3759.33	1912	3763.68	1911.07
3765.46	1910.69	3767.01	1910.38	3767.94	1910.2	3769.02	1910	3773.09	1909.24
3774.47	1909	3780.23	1908.01	3780.29	1907.99	3785.8	1907	3791.97	1906.48
3795.28	1906.24	3798.76	1906	3799.12	1905.99	3800.16	1905.99	3807.2	1905.74
3807.26	1905.74	3813.09	1905.58	3813.97	1905.56	3820.54	1905.4	3821.18	1905.38
3821.66	1905.38	3822.12	1905.37	3822.85	1905.35	3825.31	1905.32	3827.61	1905.29
3828.86	1905.29	3829.08	1905.28	3829.51	1905.28	3829.73	1905.27	3829.92	1905.28
3830.44	1905.28	3847.42	1905.03	3847.83	1905.03	3850.07	1905.04	3850.69	1905.03
3852.78	1905.03	3857.88	1905.02	3862.37	1905.01	3863.68	1905.01	3865.85	1905
3890.31	1905	3895.41	1905.12	3896.15	1905.13	3896.41	1905.13	3907.59	1905.73
3907.88	1905.74	3908.21	1905.76	3911.39	1905.79	3911.63	1905.8	3912.04	1905.8
3914.39	1905.84	3917.06	1905.92	3917.22	1905.92	3918.42	1906	3933.47	1906.92
3934.45	1907	3991.28	1907	3993.79	1906.99	4000.04	1906.99	4003.82	1907
4004.53	1907	4011.91	1907.33	4013.27	1907.39	4027.42	1908	4039.44	1908.91
4040.9	1909	4083.61	1909	4084.88	1908.91	4086.57	1908.8	4091.29	1908.5
4098.93	1908	4103.54	1907.91	4109.58	1907.66	4116.91	1907.49	4125.36	1907.31
4127.81	1907.29	4130.38	1907.17	4133.68	1907	4133.91	1907	4134.66	1906.95
4135.97	1906.88	4136.73	1906.83	4150.65	1906	4203.77	1906	4222.4	1906.32
4230.79	1906.54	4239.16	1906.7	4249.68	1907	4260.9	1907.06	4265.01	1907.08
4266.64	1907.08	4267.29	1907.07	4273.86	1907.05	4279.98	1907.03	4284.43	1907.03
4293.87	1907.04	4294.24	1907.04	4297.25	1907.03	4297.55	1907.03	4298.82	1907
4333.57	1907	4354.34	1907.37	4357.97	1907.43	4361.05	1907.47	4361.21	1907.47
4370.79	1907.85	4370.89	1907.86	4374.39	1908	4384.54	1908.68	4389.53	1909
4393.45	1909.27	4403.3	1910	4408.56	1910.6	4412.17	1911	4419.38	1911.8
4420.73	1912	4427.19	1913	4432.01	1913.92	4432.42	1914	4437.72	1914.98
4438.03	1915.04	4442.18	1916	4445.12	1916.73	4446.26	1917	4449.91	1917.93
4450.17	1918	4450.81	1918.11	4451.06	1918.18	4451.62	1918.31	4454.67	1919
4455	1919	4455.15	1919.01	4455.59	1919.01	4471.58	1919.93	4472.66	1919.99
4472.8	1920	4477.51	1920	4510.98	1920.34	4511.45	1920.35	4516.82	1920.4
4517.1	1920.4	4517.83	1920.41	4579.06	1921	4590.15	1921.67	4591.24	1921.74
4593.5	1921.88	4594.88	1921.96	4595.51	1922	4595.89	1922.01	4597.38	1922.04
4597.94	1922.04	4606.3	1922.47	4606.87	1922.5	4608.21	1922.55	4608.56	1922.56
4613.24	1922.74	4613.41	1922.74	4613.69	1922.76	4620.81	1923	4650.29	1923

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	4650.29	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	4650.29	172.85	172.85	172.85	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1908.02	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.15	Wt. n-Val.		0.040	
W.S. Elev (ft)	1907.87	Reach Len. (ft)	172.85	172.85	172.85
Crit W.S. (ft)		Flow Area (sq ft)		7274.91	
E.G. Slope (ft/ft)	0.002301	Area (sq ft)		7274.91	

Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3202.25	Top Width (ft)		3202.25	
Vel Total (ft/s)	3.08	Avg. Vel. (ft/s)		3.08	
Max Chl Dpth (ft)	4.86	Hydr. Depth (ft)		2.27	
Conv. Total (cfs)	466926.8	Conv. (cfs)		466926.8	
Length Wtd. (ft)	172.85	Wetted Per. (ft)		3203.31	
Min Ch El (ft)	1903.01	Shear (lb/sq ft)		0.33	
Alpha	1.00	Stream Power (lb/ft s)	4650.29	0.00	0.00
Frctn Loss (ft)	0.36	Cum Volume (acre-ft)		286.09	
C & E Loss (ft)	0.01	Cum SA (acres)		131.34	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -18260.2

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1914.82	.37	1914.81	2.26	1914.81	8.97	1914.74	71.23	1914.14
82.34	1914.09	83.9	1914.09	84.93	1914.08	86.31	1914.08	86.54	1914.07
88.74	1914.07	89.22	1914.06	90.87	1914.06	91.39	1914.05	93.48	1914.05
95.15	1914.04	109.1	1913.98	114.6	1913.96	119.24	1913.94	119.91	1913.94
121.2	1913.92	122.09	1913.91	122.87	1913.91	123.14	1913.9	123.89	1913.9
124.33	1913.89	125.81	1913.88	126.28	1913.87	128.31	1913.85	128.82	1913.85
130.16	1913.83	130.88	1913.83	175.59	1913.38	175.94	1913.38	177.87	1913.36
180.46	1913.34	184.6	1913.3	187.29	1913.27	227.03	1912.88	230.42	1912.87
231.99	1912.86	232.64	1912.86	236.15	1912.85	241.87	1912.83	243.83	1912.83
248.21	1912.82	255.62	1912.8	259.64	1912.79	262.44	1912.75	271.99	1912.63
273.78	1912.61	307.22	1912.19	316.35	1912.18	328.13	1912.18	330.28	1912.17
331.63	1912.17	332.73	1912.16	340.25	1912.14	341.98	1912.13	343.69	1912.13
344.73	1912.12	346.8	1912.11	347.49	1912.11	351.85	1912.1	352.34	1912.1
352.63	1912.09	354.85	1912.09	355.42	1912.08	355.87	1912.08	359.71	1912.07
360.7	1912.07	370.94	1912.03	374.6	1912.02	375.18	1912.02	394.95	1911.95
396.95	1911.94	398	1911.94	412.6	1911.89	414.6	1911.88	429.27	1911.83
431.27	1911.82	445.73	1911.77	446.79	1911.77	460.73	1911.72	462.86	1911.71
475.95	1911.67	476.5	1911.67	477.7	1911.66	489.55	1911.62	494.24	1911.61
511.96	1911.55	515.35	1911.53	519.75	1911.52	527.87	1911.49	538.09	1911.46
539.39	1911.45	541.78	1911.44	545.6	1911.43	546.44	1911.43	548.16	1911.42
549.8	1911.42	916.24	1910.15	918.29	1910.15	918.92	1910.14	924.5	1910.12
931.93	1910.1	932.71	1908.33	933.78	1909.61	938.39	1908.39	939.37	1908.46
939.89	1908.34	970.92	1904.17	1006.34	1904.34	1007.47	1904.34	1008.59	1904.35
1017.53	1904.36	1023.1	1904.38	1030.77	1904.39	1036.69	1904.41	1050.92	1904.5
1073.5	1904.65	1076.15	1904.66	1077.36	1904.67	1079.01	1904.67	1080.99	1904.69
1081.44	1904.69	1082.44	1904.7	1083.3	1904.7	1084.46	1904.71	1088.75	1904.73
1092.38	1904.75	1093.57	1904.76	1100.09	1904.78	1100.81	1904.78	1101.53	1904.79
1112.7	1904.83	1124.26	1904.97	1128.21	1904.97	1133.84	1904.99	1135.93	1904.99
1143.05	1905	1223.9	1905	1224.68	1904.99	1298.7	1904.99	1303.34	1905
1330.38	1905	1336.61	1905.18	1339.05	1905.18	1341.48	1905.15	1342.84	1905.15
1343.5	1905.14	1344.15	1905.15	1344.72	1905.17	1345.3	1905.18	1346.7	1905.18
1348.12	1905.19	1349.89	1905.23	1350.76	1905.26	1351.57	1905.28	1352.24	1905.31
1352.95	1905.33	1353.39	1905.35	1353.67	1905.35	1353.92	1905.37	1354.01	1905.36
1370.4	1905.22	1377.58	1905.17	1384.6	1905.01	1398.6	1905	1417.38	1905
1432.87	1905.01	1458.87	1905.01	1490.91	1905.02	1534.71	1905	1560.31	1905
1560.63	1905.01	1566.05	1905.01	1571.8	1905.02	1576.46	1905.01	1586.96	1905
1593.99	1904.81	1605.77	1904.33	1606.67	1904.29	1607.54	1904.26	1608.73	1904.21
1613.45	1904	1620.19	1903.01	1620.25	1903	1623.27	1903	1623.85	1903.02
1624.47	1903	1655.51	1903	1664.81	1903.25	1668.02	1903.31	1682.32	1903.59
1684.2	1903.62	1686.88	1903.68	1687.74	1903.69	1703.69	1904	1707.1	1904.06
1709.66	1904.13	1710.66	1904.16	1711.46	1904.19	1763.15	1904.14	1824.65	1904.04
1827.55	1904.01	1828.81	1904	1927.41	1904	1935.98	1904.46	1936.27	1904.48
1936.62	1904.49	1941.18	1904.71	1945.86	1904.87	1947.26	1904.91	1949.58	1905
2080.64	1905	2081.59	1904.98	2083.28	1904.94	2083.4	1904.94	2098.63	1904.57
2098.81	1904.57	2116.72	1904.31	2123.55	1904.22	2124.16	1904.22	2136.36	1904.29
2166.62	1904.54	2166.87	1904.54	2176.14	1904.69	2192.7	1904.96	2192.9	1904.97
2194.89	1905	2392.52	1905	2405.8	1905.27	2406.42	1905.27	2411.97	1905.29
2416.33	1905.3	2420.45	1905.32	2424.9	1905.34	2442.03	1905.44	2454.72	1905.51
2460.14	1905.53	2462.19	1905.53	2484.82	1905.62	2486.24	1905.62	2493.63	1905.63
2509.8	1905.63	2517.21	1905.62	2517.77	1905.62	2521.68	1905.65	2525.12	1905.67
2525.52	1905.67	2566.66	1905.75	2620.45	1905.87	2622.38	1905.88	2623.55	1905.88
2624.97	1905.89	2627.21	1905.9	2636.1	1905.91	2643.37	1905.92	2646.28	1905.92
2650.33	1905.93	2651.06	1905.93	2659.52	1905.94	2668.2	1905.96	2678.18	1905.98
2683.27	1905.98	2685.91	1906	2874.15	1906	2875.7	1905.94	2897.12	1905
2897.33	1905	2920.68	1904.96	2925.25	1904.95	2937.58	1904.97	2953.65	1905
3255.47	1905	3263.52	1905.01	3309.67	1905.01	3315.86	1905.02	3332.09	1905.01
3361.69	1905.01	3364.43	1905	3380.05	1905	3410.47	1904.21	3414.22	1904.11
3418.27	1904	3423.32	1904	3424.77	1904.02	3425.26	1904.02	3426.3	1904.04
3432.16	1904.08	3478.85	1904.34	3486.89	1904.39	3498.6	1904.47	3505.06	1904.51
3507.42	1904.52	3541.68	1904.73	3583.62	1905	3585.61	1905	3589.03	1905.4
3594.01	1906	3596.68	1906.3	3602.09	1907	3606.6	1907.05	3632.47	1907.89
3634.68	1907.95	3634.77	1907.95	3636.28	1908	3644.27	1908.01	3654.61	1908.01
3662.28	1908	3664.68	1908	3668.47	1907.61	3669.46	1907.51	3670.5	1907.42
3671.39	1907.35	3671.91	1907.3	3674.39	1907.11	3675.01	1907.08	3675.48	1907.03

3676.01	1907	3677.45	1906.98	3678.55	1906.95	3680.8	1906.92	3682.6	1906.94
3684.05	1906.8	3684.09	1906.79	3685.27	1906.76	3686.76	1906.7	3687.54	1906.66
3688.07	1906.61	3688.59	1906.55	3692.27	1906	3697.8	1905.99	3703.47	1905.99
3710.62	1906	3716.48	1906	3719.72	1906.11	3721.29	1906.19	3722.38	1906.24
3723.25	1906.29	3724.13	1906.35	3730.2	1906.59	3730.89	1906.64	3734.2	1906.81
3735.44	1906.86	3735.57	1906.86	3737.86	1906.91	3739.04	1906.93	3740.01	1906.99
3742.49	1906.99	3744.18	1906.76	3744.94	1906.73	3746.03	1906.68	3746.1	1906.67
3748.62	1906.53	3748.81	1906.51	3750.9	1906.37	3751.81	1906.29	3756.77	1906
3759.33	1905.99	3760.51	1905.99	3763.34	1906	3766.14	1906	3766.57	1906.01
3767.61	1906	3769.64	1906	3770.9	1905.99	3788.39	1905.12	3789.74	1905.04
3790.15	1905.02	3790.35	1905	3886.97	1905	3888.61	1905.04	3889.78	1905.04
3892.83	1905.09	3894.73	1905.11	3902.83	1905.59	3903.35	1905.6	3903.7	1905.62
3907.98	1906	3918.75	1906.97	3919.12	1907	4034.44	1907	4034.84	1906.99
4035.51	1906.99	4091.69	1906.21	4109.07	1906	4179.58	1906	4203.14	1905.69
4237.9	1905.24	4240.37	1905.22	4241.43	1905.22	4262.11	1905	4274.22	1905
4274.43	1905.01	4296.45	1905.8	4300.73	1905.95	4301.93	1906	4316.08	1906.97
4316.62	1907	4356.79	1907	4359.65	1907.18	4370.39	1907.85	4372.22	1908
4375.7	1908.29	4383.47	1909	4386.1	1909.64	4387.55	1910	4391.55	1911
4392.87	1911.45	4394.02	1912	4397.03	1912.59	4399.03	1913	4399.45	1913.09
4402.66	1913.72	4404.92	1914.17	4405.17	1914.23	4406.74	1914.57	4408.76	1915
4409.73	1915.01	4411	1915.12	4418.62	1915.3	4419.43	1915.31	4420.49	1915.38
4422.19	1915.51	4422.4	1915.51	4423.73	1915.65	4427.67	1916	4435.03	1916.72
4435.58	1916.78	4437.35	1917	4443.73	1917.92	4444.97	1918.09	4448.43	1918.62
4450.84	1919	4452.7	1919.29	4456.86	1920	4463.13	1920.97	4463.54	1921
4466.43	1921	4469.07	1921.05	4479.69	1921.23	4482.25	1921.26	4484.63	1921.29
4485	1921.29	4490.04	1921.33	4492.09	1921.35	4494.07	1921.36	4498.39	1921.4
4504.06	1921.47	4504.64	1921.47	4505.09	1921.48	4507.11	1921.51	4507.52	1921.51
4518.19	1921.63	4518.89	1921.65	4526.36	1921.75	4530.58	1921.8	4536.11	1921.85
4537.31	1921.85	4540.33	1921.87	4541.11	1921.88	4543.62	1921.88	4546.38	1921.83
4558.17	1921.51	4560.12	1921.44	4560.89	1921.42	4561.67	1921.39	4562.48	1921.38
4569.3	1921.18	4571.75	1921.13	4573.7	1921.15	4574.37	1921.14	4575.53	1921.13
4576.08	1921.14	4583.04	1921.12	4584.71	1921.15	4585.51	1921.17	4594.57	1921.17
4595.31	1921.18	4597.06	1921.24	4600.81	1921.39	4601.05	1921.39	4601.77	1921.42
4612.55	1922	4616.33	1922.02	4621	1922.09	4631.45	1922.23	4631.77	1922.23

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	4631.77	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	4631.77	96.87	96.87	96.87	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1907.65	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.13	Wt. n-Val.		0.040	
W.S. Elev (ft)	1907.53	Reach Len. (ft)	96.87	96.87	96.87
Crit W.S. (ft)		Flow Area (sq ft)		7877.33	
E.G. Slope (ft/ft)	0.001890	Area (sq ft)		7877.33	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3371.19	Top Width (ft)		3371.19	
Vel Total (ft/s)	2.84	Avg. Vel. (ft/s)		2.84	
Max Chl Dpth (ft)	4.53	Hydr. Depth (ft)		2.34	
Conv. Total (cfs)	515191.6	Conv. (cfs)		515191.6	
Length Wtd. (ft)	96.87	Wetted Per. (ft)		3372.07	
Min Ch El (ft)	1903.00	Shear (lb/sq ft)		0.28	
Alpha	1.00	Stream Power (lb/ft s)	4631.77	0.00	0.00
Frctn Loss (ft)	0.27	Cum Volume (acre-ft)		256.03	
C & E Loss (ft)	0.01	Cum SA (acres)		118.29	

Warning: Divided flow computed for this cross-section.
Warning: The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7 or greater than 1.4.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -18357.1

INPUT
Description:
Station Elevation Data num= 417

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1915	615.23	1905.01	623.75	1905	624.95	1905	636.13	1904.82
646.88	1904.67	647.24	1904.67	647.78	1904.66	652.99	1904.56	662.37	1904.38
664.73	1904.35	665.54	1904.33	679.92	1904	682.31	1904	689.37	1903.66
696.79	1903.32	696.89	1903.31	702.71	1903	757.29	1903	767.61	1903.32
773.04	1903.47	775.43	1903.54	777.38	1903.6	790.13	1904	825.18	1904
834.43	1904.03	871.35	1904.13	886.95	1904	985.03	1904	991.42	1904.16
995.94	1904.26	1013.78	1904.65	1022.86	1904.85	1028.33	1905	1089.09	1905
1091.05	1904.94	1092.49	1904.9	1096.43	1904.79	1111.16	1904.42	1112.53	1904.39
1112.99	1904.37	1124.88	1904.04	1125.04	1904.04	1126.63	1904	1169.43	1904
1173.37	1904.06	1173.45	1904.06	1175.84	1904.11	1191.75	1904.43	1192.94	1904.45
1209.27	1904.76	1213.79	1904.85	1214.32	1904.86	1214.44	1904.87	1215.34	1904.89
1215.4	1904.89	1216.83	1904.93	1216.85	1904.93	1217.7	1904.94	1218.31	1904.95

1219.29	1904.99	1219.3	1904.99	1219.52	1905	1283.67	1905	1291.91	1905.09
1309.89	1905	1453	1905	1455.36	1905.75	1456.2	1906	1458.07	1906.59
1459.42	1907	1461.14	1907.52	1462.78	1908	1464.82	1908.61	1466.29	1909
1469.49	1909	1471.52	1908.38	1472.79	1908	1474.93	1907.34	1475.97	1907
1478.32	1906.28	1479.18	1906	1480.09	1905.7	1482.35	1905	1537.62	1905
1546.99	1905.06	1556.24	1905.11	1556.31	1905.11	1563.39	1905.13	1572.81	1905.15
1585.77	1905.2	1586.04	1905.2	1586.38	1905.21	1602.58	1905.28	1665.71	1905.37
1716.28	1905.43	1716.66	1905.43	1718.29	1905.42	1719.51	1905.42	1721.36	1905.43
1721.64	1905.42	1721.96	1905.43	1725.82	1905.43	1729.78	1905.44	1734.35	1905.45
1737.32	1905.45	1741.05	1905.46	1741.46	1905.46	1782.89	1905.76	1815.75	1906
1927.2	1906	1928.67	1905.93	1949.71	1905	1959.54	1904.44	1961.19	1904.32
1962.15	1904.26	1965.31	1904.08	1966.6	1904	1986.9	1904	1988.49	1904.04
1989.74	1904.05	1990.64	1904.07	1992.08	1904.1	1992.55	1904.1	1992.73	1904.11
2007.93	1904.41	2009.73	1904.44	2011.37	1904.47	2013.76	1904.49	2017.74	1904.54
2022.43	1904.57	2028.75	1904.64	2031.2	1904.65	2032.39	1904.66	2033.5	1904.67
2035.57	1904.67	2035.9	1904.68	2036.92	1904.68	2062.24	1904.86	2082.27	1905
2274.11	1905	2285.05	1905.01	2373.1	1905.01	2407.21	1905	2431.3	1905
2460.43	1904.97	2476.71	1904.96	2500.22	1904.95	2508.12	1904.96	2508.16	1904.96
2523.82	1904.92	2544.59	1904.85	2551.79	1904.83	2552.35	1904.83	2578.65	1904.98
2587.15	1905	2652.08	1905	2656.7	1905.32	2667.48	1906	2674.27	1906.77
2675.98	1907	2678.07	1907.28	2684.15	1908	2688.01	1908.39	2693.97	1909
2700.93	1909	2705.68	1908.73	2706	1908.71	2706.39	1908.69	2708.87	1908.55
2709.63	1908.51	2710.68	1908.45	2711.38	1908.41	2713.39	1908.27	2717.59	1908
2719.67	1907.96	2724.72	1907.91	2728.24	1907.96	2731.33	1908	2732.74	1908.07
2733.13	1908.08	2733.2	1908.09	2733.24	1908.09	2743.96	1908.57	2744.03	1908.57
2747.9	1908.52	2753.8	1908.34	2753.82	1908.34	2756.25	1908	2760.04	1907.46
2763.5	1907	2767.78	1906.41	2768.54	1906.3	2770.74	1906	2775.46	1905.56
2775.73	1905.54	2776.42	1905.47	2777.87	1905.33	2780.9	1905.01	2781.17	1905
2805.35	1905	2811.88	1904.99	2823.25	1905	2941.26	1905	2944.29	1905.32
2946.47	1905.56	2950.69	1906	2952.54	1906.18	2953.8	1906.3	2954.68	1906.39
2956.36	1906.58	2957.57	1906.7	2958.18	1906.77	2959.96	1907	3035.12	1907
3036.27	1906.98	3052.45	1906.68	3066.35	1906.47	3066.83	1906.47	3073.77	1906.55
3074.29	1906.55	3076.43	1906.57	3082.76	1906.62	3083.67	1906.62	3084.29	1906.63
3084.69	1906.63	3089.06	1906.67	3089.7	1906.67	3097.61	1906.65	3106.47	1906.63
3106.73	1906.63	3113.55	1906.53	3113.98	1906.53	3121.1	1906.41	3133.25	1906.2
3133.6	1906.19	3134.13	1906.18	3135.25	1906.17	3144.06	1906	3169.13	1906
3174.26	1906	3184.82	1906	3191.27	1906	3192.59	1906	3194.25	1906
3195.34	1906	3196.18	1906	3201.52	1906	3251.59	1906	3252.33	1906
3252.55	1906	3252.93	1906	3253.42	1906	3256.79	1906	3263.49	1905.8
3263.83	1905.79	3265.23	1905.75	3267.34	1905.68	3287.12	1905	3288.95	1905
3294.99	1904.99	3295.16	1904.99	3295.58	1904.99	3299.01	1904.99	3299.27	1904.99
3299.73	1904.99	3300.23	1904.99	3317.28	1904.97	3328.72	1904.97	3340.86	1904.97
3355.56	1904.98	3359.65	1904.99	3360.76	1904.99	3360.83	1904.99	3362.66	1905
3364.47	1905.1	3366.53	1905.15	3372.95	1905.44	3379.27	1905.57	3379.88	1905.58
3380.53	1905.6	3389.41	1905.86	3392.01	1905.93	3393.98	1906	3407.36	1906.49
3407.63	1906.49	3411.8	1906.57	3417.6	1906.69	3421.61	1906.78	3423.91	1906.82
3426.94	1906.96	3428.94	1906.96	3429.13	1906.96	3429.25	1906.96	3430.03	1906.98
3430.35	1906.99	3430.58	1906.99	3430.73	1906.99	3431.12	1907	3431.17	1907
3431.19	1907	3431.22	1907	3432.18	1907.09	3436.01	1908	3438.71	1908.7
3439.98	1909	3441.07	1909.25	3444.11	1910	3447.5	1910.76	3448.56	1911
3449.69	1911	3450.44	1911.01	3451.17	1911	3452.71	1911	3454.45	1911
3456.33	1910.91	3456.81	1910.91	3458.91	1910.99	3459.16	1910.99	3459.27	1911
3459.35	1911.03	3461.63	1912	3464.07	1912.96	3464.15	1913	3464.27	1913.06
3466.2	1914	3467.61	1914.68	3468.23	1915	3468.83	1915.31	3470.13	1916
3471.02	1916.45	3472.03	1917	3472.6	1917.3	3473.91	1918	3474.71	1918.31
3476.07	1919	3477.35	1919.84	3477.7	1920	3478.24	1920.21	3478.8	1920.31
3479.3	1920.4	3480.01	1920.5	3480.71	1920.6	3481.23	1920.66	3482.34	1920.87
3482.59	1920.88	3482.74	1920.91	3482.85	1920.91	3482.95	1920.92	3483.03	1920.92
3483.39	1920.96	3483.56	1920.96	3484.39	1921	3484.9	1921	3484.96	1921
3485.78	1921	3485.93	1921	3488.64	1920.99	3490.14	1920.99	3492.42	1921
3497.36	1921.54	3503.37	1922	3512.81	1922.88	3513.31	1922.92	3513.43	1922.93
3513.53	1922.94	3514.48	1923	3514.64	1923	3516.07	1923	3517.37	1923
3517.43	1923	3517.94	1923	3517.99	1923	3518.38	1923	3518.9	1923
3520.9	1923	3523.59	1923	3523.94	1923	3527.07	1923	3527.31	1923
3527.55	1923	3528.59	1923	3533.53	1923	3533.99	1923	3534.15	1923
3534.6	1923	3570.02	1923	3577.93	1923	3584.3	1923	3631.77	1923
3632.04	1923	3632.13	1923	3632.14	1923	3632.42	1923	3632.48	1923
3632.56	1923	3632.59	1923	3633.82	1923	3633.91	1923	3634.63	1923
3634.82	1923	3634.83	1923	3637.6	1923	3637.61	1923	3637.76	1923
3637.92	1923	3639.75	1923	3640.74	1923	3642.15	1923	3644.84	1923
3645.52	1923	3646.26	1923	3647.01	1923	3649.97	1923	3650.16	1923
3650.41	1923	3662.06	1923.23						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	3662.06	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	3662.06	87.88	87.88	87.88	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1907.37	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.24	Wt. n-Val.		0.040	
W.S. Elev (ft)	1907.13	Reach Len. (ft)	87.88	87.88	87.88
Crit W.S. (ft)		Flow Area (sq ft)		5669.69	
E.G. Slope (ft/ft)	0.004515	Area (sq ft)		5669.69	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	

Top Width (ft)	2846.14	Top Width (ft)		2846.14	
Vel Total (ft/s)	3.95	Avg. Vel. (ft/s)		3.95	
Max Chl Dpth (ft)	4.13	Hydr. Depth (ft)		1.99	
Conv. Total (cfs)	333354.3	Conv. (cfs)		333354.3	
Length Wtd. (ft)	87.88	Wetted Per. (ft)		2847.36	
Min Ch El (ft)	1903.00	Shear (lb/sq ft)		0.56	
Alpha	1.00	Stream Power (lb/ft s)	3662.06	0.00	0.00
Frctn Loss (ft)	0.30	Cum Volume (acre-ft)		240.96	
C & E Loss (ft)	0.03	Cum SA (acres)		111.38	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -18445.0

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1914.73	40.96	1914.34	44	1914.32	46.21	1914.29	48.7	1914.27
149.24	1913.32	156.88	1913.26	159.4	1913.23	251.59	1912.4	278.19	1912.27
280.96	1912.26	290.75	1912.17	337.02	1911.72	352.41	1911.66	356.01	1911.64
357.92	1911.64	358.24	1911.63	359.65	1911.63	364.2	1911.61	364.96	1911.61
370.16	1911.59	389.47	1911.51	397.06	1911.48	403.47	1911.45	404.4	1911.45
407.6	1911.42	409.91	1911.39	410.51	1911.39	414.53	1911.35	416.71	1911.33
419.56	1911.3	449.25	1911	449.73	1911	452.29	1910.97	455.76	1910.94
461.27	1910.88	464.86	1910.85	490.76	1910.59	495.16	1910.58	497.19	1910.58
498.03	1910.57	502.57	1910.56	509.99	1910.54	512.52	1910.54	518.2	1910.52
527.78	1910.5	528.18	1910.49	532.98	1910.48	536.61	1910.44	551.28	1910.25
571.26	1910	582.73	1910	589.33	1909.99	597.52	1909.99	600.21	1909.98
601.91	1909.98	603.29	1909.97	612.72	1909.94	614.9	1909.93	617.03	1909.93
618.34	1909.92	621.81	1909.91	627.27	1909.89	629.46	1909.89	630.67	1909.88
632.31	1909.88	637.12	1909.86	638.36	1909.86	651.19	1909.81	656.51	1909.8
663.61	1909.77	681.25	1909.71	683.76	1909.71	685.06	1909.7	703.33	1909.64
705.82	1909.63	724.16	1909.57	726.65	1909.56	744.71	1909.5	746.04	1909.5
766.09	1909.43	782.41	1909.38	783.09	1909.37	784.59	1909.37	805.2	1909.3
827.25	1909.23	831.47	1909.21	836.95	1909.2	847.05	1909.16	859.76	1909.12
864.34	1909.1	869.09	1909.09	870.13	1909.08	872.26	1909.08	874.3	1909.07
952.7	1908.81	952.79	1907.49	952.82	1903.23	953.28	1903.22	955.88	1903.24
959.21	1903.25	961.85	1903.27	964.32	1903.27	968.69	1903.28	979.36	1903.3
981.11	1903.31	982.89	1903.31	993.74	1903.33	1002.46	1903.35	1012.41	1903.38
1014.46	1903.39	1021.7	1903.41	1022.55	1903.42	1027.18	1903.43	1028.79	1903.44
1036.84	1903.48	1043.8	1903.51	1052.99	1903.53	1053.6	1903.54	1057.3	1903.54
1067.18	1903.56	1080.3	1903.59	1094.94	1903.62	1104.42	1903.65	1114.82	1903.68
1168.49	1904	1266.5	1904	1269.94	1904.1	1270.8	1904.11	1286.68	1904.34
1329.78	1904.99	1332.51	1904.99	1332.64	1905	1430.47	1905	1454.87	1905.01
1465.32	1905.01	1495.03	1905	1498.38	1905	1500.85	1905.09	1501.44	1905.12
1503.11	1905.12	1503.25	1905.13	1506.6	1905.16	1507.1	1905.18	1512.78	1905.25
1515.3	1905.33	1524.85	1905.51	1531.66	1905.7	1535.81	1905.79	1537.08	1905.83
1544.64	1905.95	1544.89	1905.96	1549.41	1906	1557.45	1906.11	1559.02	1906.03
1561.12	1906.04	1563.31	1906.02	1564.07	1906	1567.37	1905.78	1568.78	1905.68
1580.33	1905	1598.75	1905	1613.19	1904.68	1614.34	1904.66	1618.47	1904.56
1619.96	1904.53	1621.87	1904.48	1635.86	1904.19	1644.44	1904	1658.97	1903.59
1678.49	1903	1685.01	1903	1690.02	1903.02	1690.54	1903.03	1694.76	1903.04
1701.06	1903.07	1705.66	1903.05	1710.77	1903.04	1722.85	1903	1734.14	1903
1742.93	1903.19	1753.08	1903.42	1755.43	1903.47	1756.78	1903.51	1774.36	1904
1858.14	1904	1902.53	1903.99	1950.39	1904	1975.97	1904.85	1980.8	1905
2050.5	1905	2063.73	1904.37	2065.72	1904.27	2071.38	1904	2130.79	1904
2148.4	1904.51	2150.66	1904.57	2159.84	1904.82	2169.3	1905	2178.16	1907.16
2179.88	1907.64	2181.25	1908	2182.58	1908.36	2184.99	1909	2186.24	1909.4
2186.87	1909.57	2187.48	1909.68	2188.04	1909.7	2188.3	1909.68	2189.09	1909.49
2189.7	1909.32	2190.49	1909	2193.26	1908.04	2194.58	1907.6	2196.28	1907
2197.37	1906.59	2198.31	1906.27	2198.82	1906.07	2199.07	1906	2200.62	1905.44
2201.71	1905	2222.13	1905	2225.85	1905.07	2240.32	1905.35	2241.6	1905.37
2248.67	1905.5	2249.35	1905.51	2274.71	1905.82	2285.16	1905.8	2287.13	1905.81
2289.02	1905.81	2290.2	1905.79	2291.87	1905.78	2293.63	1905.74	2294.18	1905.74
2300.62	1905.63	2307.84	1905.51	2308.18	1905.5	2316.85	1905.32	2330.32	1905
2331.89	1905	2332.61	1905.26	2334.75	1906	2335.71	1906.32	2337.82	1907
2339.95	1907.76	2340.72	1908	2341.22	1908.04	2342.36	1908.07	2343.16	1908
2344.86	1907.33	2345.67	1907	2348.06	1906.12	2349.02	1905.75	2351.32	1905
2356.57	1905	2363.71	1905.04	2367.06	1905.03	2371.49	1905	2430.2	1905
2432.9	1905.65	2438.71	1907	2441.43	1907.62	2442.77	1908	2448.37	1908
2450.66	1907.4	2452.98	1906.73	2455.13	1906	2456.09	1905.69	2458.15	1905
2552.45	1905	2615.29	1905.09	2688.46	1905.17	2690.97	1905.16	2695.98	1905.16
2697.66	1905.17	2700.03	1905.17	2705.84	1905.18	2722.17	1905.3	2799.51	1905.86
2800.38	1905.87	2813.39	1906	2876.74	1906	2893.53	1905.31	2901.83	1905
2915.85	1904.29	2921.55	1904	2994.75	1904	3003.74	1904.09	3007.09	1904.12
3012.02	1904.17	3015.89	1904.22	3018.23	1904.24	3020.96	1904.28	3022.97	1904.29
3036.95	1904.5	3044.4	1904.61	3048.33	1904.65	3051.28	1904.69	3055.11	1904.72
3109.04	1905	3364.58	1905	3374	1904.77	3387.2	1904.46	3387.49	1904.46
3392.89	1904.41	3394.34	1904.4	3406.75	1904.38	3408.76	1904.38	3413.9	1904.32
3415.24	1904.32	3419.98	1904.26	3420.73	1904.26	3439.55	1904.29	3467.96	1904.39
3470.22	1904.4	3486.94	1904.41	3503.3	1904.41	3504.47	1904.43	3516.99	1904.27
3518.39	1904.29	3523.68	1904.21	3531.05	1904.07	3535.75	1904	3579.31	1904

3583.75	1904.3	3590.36	1904.77	3591.83	1904.86	3593.79	1905	3596.44	1905.24
3603.89	1906	3608.9	1906.52	3613.77	1907	3623.32	1907	3626.45	1907.01
3632.35	1907.01	3642.7	1907.02	3653.13	1907.02	3660.09	1907.01	3667.53	1907.01
3679.78	1907	3681.36	1906.9	3688.61	1906.46	3695.9	1906	3703.22	1905.38
3703.84	1905.33	3707.62	1905	3719.93	1904.89	3730.32	1904.79	3733.98	1904.79
3747.29	1904.68	3786.92	1904.72	3834.02	1904.8	3837.14	1904.8	3837.57	1904.81
3839.89	1904.81	3840.99	1904.82	3845.09	1904.78	3853.74	1904.62	3856.97	1904.66
3858.87	1904.67	3860.35	1904.67	3863.2	1904.57	3868.68	1904.36	3869.32	1904.35
3876.38	1904	3895.79	1904	3901.29	1904.6	3902.41	1904.75	3904.59	1905
3911.01	1905.69	3914.27	1906	3917.35	1906.18	3922.29	1906.46	3924.63	1906.58
3925.81	1906.65	3928.48	1906.71	3930.46	1906.74	3931.62	1906.79	3933.48	1906.81
3935.91	1906.8	3938.8	1906.81	3944.62	1906.73	3946.04	1906.7	3950.31	1906.54
3951.08	1906.49	3953.13	1906.4	3956.36	1906.23	3959.1	1906.01	3960.11	1906
3961.6	1905.89	3962.09	1905.84	3963.43	1905.74	3971.63	1905.05	3972.17	1905
3983.17	1905	3983.83	1905.01	3997.78	1905.01	4000.51	1905.02	4007.16	1905.02
4021.54	1905.36	4022.32	1905.37	4036.99	1906	4070.59	1906	4076.06	1905.9
4098.04	1905.29	4107.51	1905.04	4109.1	1905	4118.95	1905	4121.48	1905.03
4121.58	1905.02	4127.73	1905.11	4131.07	1905.07	4133.72	1905.06	4139.5	1905.09
4175.01	1905	4228.03	1905	4264.54	1904.98	4288.42	1904.98	4294.29	1904.99
4301.71	1904.99	4318.91	1904.58	4319.23	1904.57	4323.52	1904.33	4323.65	1904.33
4329.4	1904	4330.24	1904	4334.2	1904.28	4344.46	1905	4350.29	1905.57
4354.74	1906	4357.08	1906.36	4358.23	1906.53	4359.73	1906.73	4361.66	1907
4367.74	1907.94	4368.04	1908	4369.19	1908.11	4371.17	1908.23	4374.18	1908.42
4383.06	1909	4383.12	1909	4387.18	1909.31	4390.75	1909.59	4396.26	1910
4397.19	1910.09	4407.51	1911	4413.75	1911.63	4414.86	1911.76	4416.68	1911.99
4420.52	1913	4423.18	1913.66	4424.58	1914	4428.47	1915.02	4432.51	1916
4437.35	1917.13	4441.39	1918	4443.04	1918.35	4445.6	1919	4448.25	1919.7
4449.36	1920	4453.73	1920.75	4455.4	1921	4459.15	1921.33	4467.43	1922
4469.19	1922.21	4477.46	1923	4489.86	1923.45	4491.83	1923.52	4497.72	1923.71
4501.56	1923.83	4506.63	1924	4515.57	1924.54	4517.93	1924.66	4519.8	1924.74
4524.54	1924.96	4525.61	1925	4526.96	1925	4527.62	1924.97	4546.65	1924.27
4549.82	1924.16	4550.07	1924.16	4564.35	1924	4566.16	1924	4569.54	1923.99
4577.94	1923.99	4580.89	1923.98	4590.35	1924	4599	1924.19	4603.92	1924.3

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	4603.92	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	4603.92	93.71	93.71	93.71	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1907.05	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.16	Wt. n-Val.		0.040	
W.S. Elev (ft)	1906.89	Reach Len. (ft)	93.71	93.71	93.71
Crit W.S. (ft)		Flow Area (sq ft)		7073.35	
E.G. Slope (ft/ft)	0.002633	Area (sq ft)		7073.35	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3297.04	Top Width (ft)		3297.04	
Vel Total (ft/s)	3.17	Avg. Vel. (ft/s)		3.17	
Max Chl Dpth (ft)	3.89	Hydr. Depth (ft)		2.15	
Conv. Total (cfs)	436533.0	Conv. (cfs)		436533.0	
Length Wtd. (ft)	93.71	Wetted Per. (ft)		3303.24	
Min Ch El (ft)	1903.00	Shear (lb/sq ft)		0.35	
Alpha	1.00	Stream Power (lb/ft s)	4603.92	0.00	0.00
Frctn Loss (ft)	0.26	Cum Volume (acre-ft)		228.11	
C & E Loss (ft)	0.00	Cum SA (acres)		105.18	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -18538.7

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1914.51	35.4	1914.18	39.99	1914.14	43.22	1914.11	155.26	1913.06
155.85	1913.06	158.86	1913.03	160.08	1913.02	162.38	1912.99	164.45	1912.98
257.54	1912.1	258.47	1912.09	261.63	1912.07	264.61	1912.04	267.95	1912.01
345.85	1911.28	352.15	1911.22	353.3	1911.21	354.1	1911.2	354.63	1911.2
355.08	1911.19	356.01	1911.19	358.67	1911.16	429.79	1910.52	461.89	1910.38
465.24	1910.36	477.03	1910.25	511.17	1909.92	529.32	1909.85	530.98	1909.85
531.85	1909.84	533.65	1909.84	534.06	1909.83	536.35	1909.83	536.9	1909.82
537.84	1909.82	539.74	1909.81	540.56	1909.81	543.2	1909.8	544.09	1909.8
547.5	1909.78	550.22	1909.77	572.92	1909.68	573.24	1909.68	581.84	1909.65
589.37	1909.62	590.46	1909.62	592.56	1909.6	594.78	1909.57	595.7	1909.57
596.12	1909.56	596.92	1909.55	597.63	1909.55	600.03	1909.52	600.78	1909.52
601.96	1909.5	602.34	1909.5	604.9	1909.47	608.25	1909.44	626.94	1909.26
627.49	1909.25	634.45	1909.18	640.83	1909.12	644.97	1909.08	660.79	1908.92
661.11	1908.92	665.8	1908.91	668.13	1908.9	669.08	1908.9	674.26	1908.89
682.72	1908.87	685.61	1908.86	692.07	1908.85	702.99	1908.82	703.44	1908.82
708.9	1908.81	713.04	1908.76	727.08	1908.58	727.33	1908.57	740.07	1908.41

769.54	1908.41	772.56	1908.4	774.46	1908.4	775.53	1908.39	776.01	1908.39
786.57	1908.36	791.41	1908.34	792.87	1908.34	795.77	1908.33	796.75	1908.33
802.86	1908.31	803.96	1908.31	804.27	1908.3	807.07	1908.3	807.87	1908.29
808.5	1908.29	813.88	1908.27	815.27	1908.27	829.61	1908.22	834.74	1908.21
835.55	1908.21	843.26	1908.18	843.49	1908.18	863.18	1908.12	865.97	1908.11
867.43	1908.11	887.79	1908.04	890.57	1908.03	910.98	1907.97	913.75	1907.96
933.82	1907.9	935.3	1907.89	944.99	1907.86	958.61	1906.52	994.58	1903
995.15	1903	999.02	1903.04	1000.92	1903.05	1007.16	1903.11	1013.35	1903.11
1018.24	1903.13	1038.35	1903.25	1041.4	1903.26	1041.68	1903.27	1042.8	1903.27
1163.03	1904	1277.37	1904	1288.3	1904.09	1289.27	1904.09	1289.38	1904.1
1314.23	1904.34	1380.47	1905	1413.28	1905	1420.46	1905.02	1426.47	1905.04
1431.34	1905.03	1435.51	1905.02	1448.27	1905	1485.85	1905	1490.17	1905.05
1504.28	1905.2	1505.7	1905.21	1520.71	1905.09	1530.22	1905.05	1534.1	1905
1543.46	1905	1555.22	1905.22	1555.71	1905.24	1555.81	1905.23	1556.22	1905.24
1556.28	1905.23	1557.07	1905.24	1559.01	1905.24	1561.1	1905.23	1561.63	1905.23
1567.62	1905.1	1568.45	1905.11	1569.68	1905.09	1574.2	1905	1580.69	1905
1604.19	1904.79	1627.5	1904.6	1627.91	1904.6	1629.21	1904.58	1638.62	1904.39
1639.74	1904.38	1656.22	1904	1659.29	1904	1670.92	1903.64	1674.14	1903.54
1676.25	1903.47	1690.99	1903	1691.49	1902.98	1691.72	1902.98	1692.23	1903
1708.48	1903.09	1739.34	1903.27	1742.46	1903.26	1744.68	1903.25	1757.8	1903.18
1778.79	1903.1	1780.34	1903.09	1781.25	1903.08	1781.59	1903.08	1786.8	1903.05
1789.05	1903.03	1790.43	1903.03	1790.65	1903.04	1791.24	1903.03	1794.61	1903.03
1794.77	1903.04	1796.05	1903.04	1799.55	1903.07	1800.55	1903.08	1802.45	1903.12
1804.13	1903.15	1806.93	1903.18	1810.88	1903.22	1817.48	1903.33	1817.56	1903.33
1821.28	1903.39	1830.42	1903.54	1834.25	1903.6	1838.38	1903.68	1866.99	1903.79
1908.94	1903.99	1909.84	1904	1914.06	1904.01	1920.56	1904.01	1925.23	1904.02
1926.12	1904.02	1930.75	1904.03	1933.9	1904.04	1938.58	1904.05	1939.31	1904.05
1993.73	1904.67	1994.26	1904.68	1995.54	1904.69	1995.89	1904.69	1997.3	1904.7
2002.65	1904.75	2004.93	1904.77	2005.6	1904.78	2005.98	1904.78	2013.36	1904.79
2021.03	1904.81	2021.54	1904.82	2028.28	1904.83	2040.2	1904.88	2047.21	1904.9
2048.52	1904.89	2049.91	1904.9	2050.8	1904.9	2051.53	1904.89	2052.95	1904.89
2070.7	1905	2071.15	1904.99	2101.52	1904.54	2118.57	1904.3	2125.17	1904.24
2125.36	1904.25	2126.97	1904.28	2127.64	1904.28	2128.03	1904.29	2130.67	1904.32
2130.91	1904.33	2135.37	1904.4	2135.76	1904.4	2148.49	1904.62	2149.17	1904.63
2157.67	1904.81	2166.4	1905	2185.1	1905	2189.28	1905.01	2193.07	1905
2253.29	1905	2260.3	1905.61	2262.99	1905.83	2265.19	1906	2266.4	1906.57
2267.33	1907	2268.95	1907.76	2271.33	1908.88	2271.58	1909	2272.19	1909.22
2272.36	1909.27	2272.91	1909.39	2273.35	1909.47	2275.3	1909.8	2275.68	1909.85
2276.11	1909.89	2276.56	1909.92	2277.11	1909.94	2277.64	1909.93	2279.19	1909.84
2280.4	1909.72	2281.28	1909.61	2281.59	1909.56	2283.55	1909.28	2283.72	1909.22
2284.96	1909	2285.25	1908.85	2286.93	1908	2288.51	1907.18	2288.84	1907
2289.32	1906.76	2291.17	1906	2297.91	1905.98	2303.92	1905.98	2304.2	1905.97
2304.79	1905.97	2313.2	1905.93	2320.15	1905.94	2330.21	1905.95	2332.41	1905.95
2332.66	1905.96	2334.03	1905.96	2335.35	1905.88	2346.59	1905.23	2346.69	1905.23
2352.48	1905	2731.79	1905	2732.7	1905.01	2734.03	1905.03	2736.39	1905.06
2812.77	1905.57	2836.77	1905.7	2837.27	1905.7	2841.43	1905.68	2846.48	1905.64
2847.02	1905.64	2848.73	1905.62	2850.71	1905.6	2860.04	1905.48	2878.34	1905.22
2878.9	1905.22	2891.75	1905	2891.88	1905	2893.01	1904.96	2918.28	1904.15
2922.85	1904	2991.63	1904	2997.86	1904.06	3024.72	1904.19	3046.95	1904.33
3088.45	1904.58	3119.85	1904.76	3127.78	1904.8	3143.31	1904.91	3144.77	1904.92
3151	1904.97	3153.59	1904.98	3155.57	1905	3306.03	1905	3314.07	1904.9
3330.34	1904.83	3332.44	1904.8	3340.84	1904.78	3342.3	1904.76	3343.48	1904.76
3351.16	1904.59	3378.9	1904	3411.27	1904	3475.11	1903.37	3497.25	1903.15
3502.26	1903.11	3513.73	1903	3516.41	1903	3516.63	1902.99	3516.84	1903.01
3517.86	1903.01	3518.04	1903	3528.8	1903	3529.83	1902.99	3530.37	1902.99
3531.62	1902.98	3533.73	1903	3535.32	1903	3539.83	1903.01	3543.04	1903.01
3545.12	1903.06	3564.56	1903.51	3573.11	1903.65	3573.88	1903.65	3574.61	1903.66
3575.93	1903.66	3584.6	1904	3589.03	1904.14	3589.12	1904.14	3616.33	1905
3620.05	1905.17	3638.64	1906	3641.93	1906.1	3646.9	1906.22	3650.75	1906.3
3651.17	1906.32	3651.37	1906.32	3660.36	1906.53	3664.62	1906.53	3669.25	1906.46
3669.72	1906.47	3673.01	1906.37	3676.74	1906.21	3676.82	1906.21	3679.75	1906.03
3680.19	1906	3685.9	1905.55	3693.37	1905	3695.63	1904.95	3697.87	1904.92
3708.02	1904.79	3712.23	1904.73	3715.87	1904.68	3760.65	1904	3848.52	1904
3858.05	1904.49	3858.57	1904.52	3859.87	1904.58	3861.03	1904.64	3861.93	1904.68
3864.09	1904.77	3867.27	1904.9	3869.74	1905	3895.2	1905	3896.25	1905.18
3901.05	1906	3903.64	1906.01	3908.93	1906.02	3913.44	1906.04	3914.69	1906.04
3918.08	1906.05	3923.08	1906.05	3926.26	1906.21	3935.55	1906.61	3936.18	1906.61
3937.06	1906.62	3941.59	1906.44	3951.46	1906	3954.5	1906	3962.29	1905
4018.45	1905	4019.34	1905.02	4019.95	1905.03	4020.74	1905.03	4037.78	1905.11
4039.59	1905.12	4040.19	1905.12	4046.77	1905.1	4055.7	1905.05	4062.67	1905.09
4064.84	1905	4261.87	1905	4262.41	1904.99	4299.37	1904.4	4320.28	1904.07
4322.1	1904	4335.73	1904	4345.61	1904.26	4372.87	1905	4387.06	1905
4388.48	1905.41	4390.37	1906	4392.18	1906.57	4393.54	1907	4394.38	1907.26
4396.65	1908	4397.62	1908.31	4399.8	1909	4402.93	1910	4405.27	1910.74
4406.3	1911.08	4406.73	1911.15	4407.4	1911.3	4410.41	1912	4411.42	1912.34
4411.99	1912.55	4413.77	1913	4417.22	1913.4	4420.22	1914	4423.19	1914.86
4423.71	1915	4424.7	1915.23	4427.72	1916	4431.41	1916.89	4431.86	1917
4432.15	1917.08	4433.09	1917.31	4434.41	1917.65	4435.74	1918	4436.84	1918.3
4439.12	1919	4440.15	1919.16	4446.9	1920	4455.17	1920.83	4456.85	1921
4463.58	1921.61	4468.83	1922	4478.89	1922.43	4483.08	1922.58	4492.52	1922.97
4493.15	1923	4497.36	1923.45	4498.9	1923.62	4499.19	1923.66	4502.8	1924
4516.51	1924	4534.53	1924.27	4534.8	1924.27	4554.54	1924.43	4560.95	1924.53

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	4560.95	.045

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.

```
            0 4560.95           155.33  155.33  155.33             .1       .3

CROSS SECTION OUTPUT  Profile #PF 1

  E.G. Elev (ft)           1906.79    Element                   Left OB    Channel   Right OB
  Vel Head (ft)               0.16    Wt. n-Val.                            0.040
  W.S. Elev (ft)           1906.63    Reach Len. (ft)           155.33     155.33     155.33
  Crit W.S. (ft)                      Flow Area (sq ft)                   6944.52
  E.G. Slope (ft/ft)      0.002924    Area (sq ft)                        6944.52
  Q Total (cfs)           22400.00    Flow (cfs)                         22400.00
  Top Width (ft)           3411.68    Top Width (ft)                      3411.68
  Vel Total (ft/s)            3.23    Avg. Vel. (ft/s)                       3.23
  Max Chl Dpth (ft)           3.64    Hydr. Depth (ft)                       2.04
  Conv. Total (cfs)       414245.6    Conv. (cfs)                        414245.6
  Length Wtd. (ft)          155.33    Wetted Per. (ft)                    3412.88
  Min Ch El (ft)           1902.98    Shear (lb/sq ft)                       0.37
  Alpha                       1.00    Stream Power (lb/ft s)   4560.95       0.00       0.00
  Frctn Loss (ft)             0.45    Cum Volume (acre-ft)                 213.03
  C & E Loss (ft)             0.00    Cum SA (acres)                        97.97


Warning: Divided flow computed for this cross-section.

CROSS SECTION


RIVER: MOJAVE
REACH: MOJAVE             RS: -18694.0

INPUT
Description:
Station Elevation Data    num=     490
     Sta    Elev     Sta    Elev     Sta    Elev     Sta    Elev     Sta    Elev
       0 1914.28   20.74 1914.08   25.98 1914.03   27.59 1914.01  136.58 1912.97
  142.29 1912.92  143.14 1912.91  146.82 1912.88  261.42  1911.8  268.21 1911.73
     273 1911.69  365.53 1910.82  369.22 1910.78  375.37 1910.72  378.23  1910.7
  453.67 1909.99  459.07 1909.94  462.99  1909.9  467.41 1909.86  529.25 1909.28
  537.29  1909.2  541.36 1909.17   545.6 1909.13  600.66 1908.63  640.53 1908.44
  644.69 1908.43  659.36 1908.28  683.29 1908.05  705.55 1907.96  706.68 1907.96
  707.57 1907.95  708.68 1907.95  710.75 1907.94  711.81 1907.94  714.18 1907.93
  714.85 1907.92  716.02 1907.92  718.34 1907.91  719.35 1907.91  722.59 1907.89
   723.7 1907.89  727.88 1907.87  731.23 1907.86  759.15 1907.74  759.54 1907.74
  770.13  1907.7  779.41 1907.66  780.75 1907.66  786.08  1907.6  787.74 1907.59
  793.48 1907.53  794.94 1907.52   795.4 1907.51  797.71 1907.49  801.24 1907.45
  802.69 1907.44  810.82 1907.36  811.48 1907.35   815.1 1907.32  827.75 1907.19
   832.8 1907.14  838.64 1907.08  844.68 1907.07  847.49 1907.06  848.64 1907.06
  854.89 1907.04  868.59    1907  876.39 1906.98  889.58 1906.95  890.13 1906.95
  896.74 1906.93  901.74 1906.87  918.73 1906.65  919.04 1906.65  921.92 1906.61
  925.47 1906.61  960.34 1905.72  993.51 1903.68 1005.72 1903.78 1006.71 1903.78
 1022.83    1904 1404.88    1904 1411.19 1904.12 1413.89 1904.19 1414.77 1904.22
 1418.83 1904.32 1438.18    1905 1440.23 1905.01 1456.07 1905.11 1459.35 1905.11
 1471.69 1905.09 1481.85 1905.09 1491.56 1905.04 1495.15 1905.02 1495.75    1905
 1501.06 1904.44 1505.19    1904 1514.06 1903.08 1514.35 1903.04 1514.77 1903.02
 1516.32 1903.03 1517.12 1903.06 1538.07 1903.98 1540.08 1903.98 1540.95 1903.99
 1541.64 1903.98  1543.1 1903.99 1544.35 1903.98 1547.46 1903.97 1548.84 1903.97
 1550.15 1903.96 1553.56 1903.98 1557.99    1904 1558.77 1904.04 1559.55 1904.03
 1566.22 1904.19 1568.89 1904.24 1573.58 1904.35 1577.08 1904.37 1581.22 1904.41
  1581.3 1904.42 1590.49  1904.5 1609.79    1905 1619.24 1904.93 1624.37 1904.87
  1624.7 1904.87 1626.67 1904.83 1627.11 1904.83  1630.2 1904.78 1632.39 1904.74
 1637.34 1904.66 1639.08 1904.63 1641.59  1904.6 1659.75 1904.29 1676.29 1904.01
 1678.26    1904 1696.06    1903 1697.29 1902.41 1699.22 1902.35 1700.83 1902.34
 1706.52    1903 1732.81 1903.03 1734.39 1903.03 1752.22 1903.05 1759.94 1903.04
 1779.41 1903.03 1796.16 1903.02 1799.03 1903.02  1800.9 1903.01 1804.99 1903.01
 1805.88    1903 1807.12    1903 1817.75 1902.99 1819.89 1902.99 1822.58    1903
 1864.79    1903 1897.53 1903.45 1898.19 1903.45 1899.59 1903.48 1901.15  1903.5
 1902.46 1903.51 1921.84 1903.89 1922.03 1903.89 1927.65    1904 2026.82    1904
 2039.66 1903.83 2040.31 1903.82 2049.74  1903.7 2050.71 1903.69 2054.54 1903.64
 2054.92 1903.63 2063.12 1903.53 2064.09 1903.53 2068.37 1903.47 2071.91 1903.43
 2072.27 1903.43 2086.84 1903.51  2113.2 1903.79 2120.97 1903.98 2123.25 1903.99
 2123.27    1904 2148.36 1904.64 2162.41    1905 2281.25    1905 2286.23 1905.19
 2289.78 1905.32 2296.74 1905.54 2297.18 1905.56 2298.77 1905.61  2304.4 1905.62
 2311.26 1905.62 2311.45 1905.61 2312.64 1905.61 2312.79  1905.6 2316.01 1905.59
 2320.04 1905.55 2322.16 1905.55  2325.1 1905.51 2337.76    1905  2426.8    1905
 2427.16 1904.99 2475.25 1904.98 2523.43    1905 2535.46    1905 2539.67 1904.99
 2549.77 1904.97 2552.22 1904.97 2556.71    1905 2561.63    1905 2580.62 1904.99
 2593.32 1904.99 2602.72 1904.98 2629.61 1904.98 2645.15 1904.99 2667.43    1905
 2690.71    1905 2697.09 1905.01 2780.31 1905.01 2785.66    1905 2811.78    1905
  2844.4 1904.44  2865.7    1904 2870.15  1903.9 2877.11 1903.77 2881.06  1903.7
 2887.02 1903.59 2891.47 1903.52 2919.18 1903.56 2954.77 1903.67 2957.72  1903.7
 2959.08 1903.71 2960.83 1903.73 2961.56 1903.73 2980.03 1903.88 2987.68    1904
 3000.42    1904 3008.43 1904.01 3009.77 1904.01 3020.19 1904.09 3021.77  1904.1
 3023.68 1904.12 3041.69 1904.22 3044.29 1904.23 3044.41 1904.24 3046.77 1904.25
 3077.12 1904.34 3104.08 1904.34 3105.69 1904.31 3106.41 1904.32 3116.04 1904.21
  3116.6 1904.21 3121.62 1904.15 3122.74 1904.15 3137.33 1904.01 3138.22    1904
 3177.82    1904 3204.27 1904.01 3225.26 1904.01 3273.53 1904.04 3276.65    1904
 3280.71 1903.99 3284.21 1903.99 3287.96 1903.98 3322.25 1903.64 3324.36 1903.63
 3331.82 1903.56 3341.26 1903.49 3377.48 1903.12 3386.54 1903.02 3390.26 1903.02
 3392.98 1903.01 3398.13 1903.01 3400.72    1903 3403.84    1903 3409.35 1902.91
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3412.16	1902.86	3413.52	1902.84	3417.67	1902.77	3420.94	1902.71	3423.49	1902.67
3461.68	1902	3468.16	1902	3481.11	1901.99	3508.9	1901.99	3514.17	1902
3530.71	1902	3543.65	1902.52	3549.43	1902.77	3553.96	1902.95	3555.24	1902.96
3556.3	1902.94	3568.49	1902.63	3569.01	1902.63	3572.55	1902.54	3575.64	1902.48
3576.42	1902.46	3591.77	1902.99	3649.3	1902.99	3652.83	1903	3681.56	1903
3689.27	1903.02	3690.38	1903.01	3691.41	1903.01	3692.57	1903	3698.74	1903
3706.7	1903.08	3706.85	1903.08	3712.34	1903.01	3753.3	1903.01	3770.54	1903.42
3773.78	1903.35	3776.06	1903.32	3779.26	1903.48	3779.88	1903.48	3783.3	1903.6
3785.02	1903.64	3786.4	1903.71	3798.89	1904	3800.62	1904.26	3801.77	1904.4
3803.82	1904.42	3805.14	1904.44	3805.73	1904.5	3806.55	1904.61	3807.96	1904.97
3809.19	1905.26	3809.85	1905.39	3810.33	1905.47	3811.03	1905.61	3812.17	1905.8
3812.94	1905.91	3813.81	1906.05	3814.77	1906.17	3815.98	1906.31	3817.66	1906.44
3818.75	1906.48	3819.42	1906.47	3820.1	1906.44	3822.56	1906.21	3822.66	1906.19
3825.49	1905.84	3826.88	1905.64	3828.07	1905.48	3829.36	1905.26	3831.07	1905
3835.07	1904.99	3837.39	1904.99	3838.09	1904.98	3841.79	1904.97	3842.05	1904.96
3843.97	1904.96	3845.32	1904.95	3849.99	1904.93	3856.77	1904.89	3860.94	1904.91
3867.42	1904.92	3880.37	1904.98	3885.08	1904.94	3886.37	1905	3894.49	1905.97
3894.83	1906	3902.83	1906.64	3910.16	1907.37	3916.08	1908	3920.1	1908
3920.6	1907.99	3921.97	1907.88	3925.14	1907.67	3930.69	1907.44	3933.59	1907
3938.1	1906.3	3939.93	1906	3944.55	1905.27	3945.48	1905.1	3946.65	1904.82
3946.87	1904.75	3949.4	1904	3951.43	1903.98	3956.32	1903.95	3957.31	1903.95
3963.33	1904	3975.03	1904.27	4002.86	1904.99	4003.19	1905	4055.6	1905
4056.3	1904.99	4060.5	1904.88	4077.91	1904.44	4080.73	1904.42	4081.08	1904.43
4089.06	1904.36	4099.32	1904.26	4102.6	1904.22	4103.81	1904.21	4109.23	1904.15
4115.55	1904.07	4117.24	1904.05	4118.54	1904.05	4119.07	1904.04	4120.55	1904.04
4141.12	1904.01	4144.06	1904	4148.29	1903.95	4154.83	1903.85	4157.02	1903.84
4164.32	1903.68	4165.67	1903.69	4173.42	1903.58	4177.4	1903.63	4184.69	1903.58
4191.08	1903.55	4192.35	1903.55	4196.49	1903.56	4201.95	1903.61	4228.11	1903.98
4229.24	1903.99	4238.3	1903.99	4261.49	1904	4265.56	1904	4278.86	1904.72
4283.1	1904.96	4283.7	1905	4284.2	1905	4285.22	1905.1	4286.81	1905.31
4295.16	1906	4301.08	1906.53	4306.57	1907	4308.83	1907.24	4313.85	1908
4314.48	1909	4314.89	1909.57	4315.17	1910	4315.85	1911	4316.51	1912
4316.99	1912.86	4317.71	1913.97	4318.74	1915	4320.91	1915.54	4327.03	1917
4331.13	1917.97	4331.27	1918	4335.19	1918.92	4335.52	1919	4337.78	1919.33
4339.2	1919.56	4342.36	1920	4345.53	1920.25	4353.67	1921	4360.45	1921.61
4361.7	1921.7	4363.06	1921.82	4365.34	1921.95	4366.37	1921.98	4367.61	1921.98
4368.56	1921.97	4369.49	1921.95	4370.25	1921.92	4377.77	1921.6	4385.69	1921.14
4385.83	1921.12	4387.86	1921	4389.58	1920.88	4389.66	1920.89	4390.64	1920.83
4390.9	1920.79	4393.11	1920.84	4394.92	1920.83	4398.07	1920.72	4399.92	1920.65
4408.72	1920.39	4414.49	1920.44	4422.31	1920.52	4424.49	1920.64	4428.01	1920.85
4430.68	1921	4433.66	1921.19	4439.75	1921.53	4446.03	1921.92	4447.77	1921.94
4449.31	1921.98	4449.9	1921.98	4451.89	1922.03	4452.75	1922.04	4456.75	1922.13
4499.02	1923	4503.4	1923.21	4504.83	1923.27	4508.67	1923.45	4512.71	1923.65

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	4512.71	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	4512.71	149.26	149.26	149.26	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1906.33	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.17	Wt. n-Val.		0.040	
W.S. Elev (ft)	1906.17	Reach Len. (ft)	149.26	149.26	149.26
Crit W.S. (ft)		Flow Area (sq ft)		6853.06	
E.G. Slope (ft/ft)	0.002928	Area (sq ft)		6853.06	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3303.93	Top Width (ft)		3303.93	
Vel Total (ft/s)	3.27	Avg. Vel. (ft/s)		3.27	
Max Chl Dpth (ft)	4.17	Hydr. Depth (ft)		2.07	
Conv. Total (cfs)	413946.7	Conv. (cfs)		413946.7	
Length Wtd. (ft)	149.26	Wetted Per. (ft)		3305.20	
Min Ch El (ft)	1901.99	Shear (lb/sq ft)		0.38	
Alpha	1.00	Stream Power (lb/ft s)	4512.71	0.00	0.00
Frctn Loss (ft)	0.41	Cum Volume (acre-ft)		188.43	
C & E Loss (ft)	0.00	Cum SA (acres)		85.99	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -18843.3

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1914.37	37.47	1914	39.38	1913.99	44.13	1913.94	169.73	1912.73
180.94	1912.63	182.71	1912.62	183.12	1912.61	186.05	1912.59	189.69	1912.55
195.1	1912.5	195.87	1912.49	196.75	1912.49	308.84	1911.41	317.09	1911.33
317.82	1911.32	319.63	1911.31	410.04	1910.44	411.55	1910.43	411.72	1910.42
419.67	1910.35	425.07	1910.3	517.52	1909.42	526.88	1909.33	533.49	1909.27
605.9	1908.59	610.78	1908.54	612.47	1908.52	618.91	1908.46	622.69	1908.43

679.86	1907.89	681.43	1907.87	686.77	1907.82	691.8	1907.77	697.46	1907.72
742.67	1907.29	752.7	1907.2	754.42	1907.18	755.98	1907.17	756.66	1907.16
757.52	1907.16	757.71	1907.15	758.62	1907.15	758.86	1907.14	763.09	1907.1
801.49	1906.75	850.26	1906.51	855.35	1906.49	873.35	1906.32	886.51	1906.19
913.49	1906.07	914.84	1906.06	915.96	1906.06	917.29	1906.05	919.79	1906.04
921.08	1906.04	923.71	1906.03	923.97	1906.02	924.86	1906.02	926.19	1906.01
929.01	1906	930.24	1906	934.18	1905.98	935.52	1905.97	940.61	1905.95
944.67	1905.93	978.66	1905.79	979.15	1905.78	992.06	1905.73	996.03	1905.71
997.37	1905.54	998.03	1905.52	998.96	1905.42	999.65	1905.4	1000.11	1905.35
1001.17	1905.31	1001.48	1905.28	1002.08	1905.26	1003.18	1905.24	1003.75	1905.2
1013.58	1905.04	1016.27	1904.92	1026.83	1904.77	1027.08	1904.76	1028.6	1903.63
1058.93	1903.98	1069.28	1903.98	1069.82	1903.99	1071.59	1903.99	1080.66	1903.98
1081.89	1903.98	1083.9	1903.99	1088.48	1904	1099.49	1904	1109.86	1904.01
1132.99	1904.01	1147.97	1904.23	1158.62	1904.12	1165.95	1904.06	1173.47	1904
1180.99	1903.95	1185.72	1903.93	1192.22	1903.88	1196.76	1903.86	1209.56	1903.79
1213.1	1903.75	1214.12	1903.75	1220.92	1903.69	1221.21	1903.69	1223.87	1903.66
1224.9	1903.66	1230.44	1903.62	1232.43	1903.6	1233.67	1903.58	1238.42	1903.53
1244.73	1903.45	1246.12	1903.42	1257.28	1903.36	1259.2	1903.33	1264.2	1903.29
1269.77	1903.25	1271.34	1903.23	1282.45	1903.14	1287.56	1903.11	1292.68	1903.11
1299.12	1903.15	1307.33	1903.22	1336.09	1903.51	1342.6	1903.57	1345.07	1903.61
1347.42	1903.64	1349.53	1903.66	1374.4	1904	1391.72	1904.6	1405.77	1905
1447.2	1905	1449.5	1904.8	1459.68	1904	1496.07	1904	1508.25	1904.6
1509.59	1904.66	1516.12	1904.99	1516.2	1905	1606.33	1905	1611.66	1904.92
1630.33	1904.63	1630.74	1904.62	1646.51	1904.56	1683.96	1904.02	1685.16	1904.02
1686.12	1904	1692.19	1903.82	1694	1903.76	1719.31	1903	1727.73	1902.24
1730.29	1902	1735.06	1901.94	1739.83	1902	1741.53	1902.38	1743.75	1903
1805.64	1903	1815.98	1902.97	1841.84	1902.91	1871.17	1902.98	1878	1903
1935.69	1903	1942.62	1903.04	2000.06	1903.24	2007.04	1903.24	2018.23	1903.29
2037.91	1903.42	2038.27	1903.42	2046.01	1903.52	2047.05	1903.53	2048.04	1903.53
2048.62	1903.54	2049.85	1903.54	2050.27	1903.55	2051.69	1903.55	2052.6	1903.56
2067.23	1903.58	2082.34	1903.58	2089.85	1903.69	2100.66	1903.84	2101.29	1903.86
2102.08	1903.87	2103.36	1903.87	2103.73	1903.88	2114.64	1904	2149.33	1904
2178.63	1904.01	2185.78	1904.01	2210.19	1904	2410.98	1904	2416.27	1903.94
2453.59	1903.76	2480.91	1903.69	2482.55	1903.69	2483.07	1903.68	2497.33	1903.68
2497.88	1903.67	2522.98	1903.99	2543.18	1903.99	2543.79	1904	2650.23	1904
2661.66	1904.05	2681.23	1904.14	2719.87	1904.16	2728.94	1904.02	2730.92	1904
2749.21	1903.75	2755.91	1903.67	2761.36	1903.61	2770.48	1903.53	2777.6	1903.49
2783.78	1903.46	2784.28	1903.46	2802.48	1903.3	2803.24	1903.3	2805.11	1903.28
2809.25	1903.26	2810.08	1903.25	2813.67	1903.23	2829.47	1903.15	2832.58	1903.13
2841.46	1903.01	2847.66	1903.01	2878.59	1903.48	2894.23	1903.74	2912.77	1904
2962.21	1904	2977.7	1903.78	2978.85	1903.76	2981.14	1903.73	2983.04	1903.69
2983.5	1903.69	2992.69	1903.57	2993.18	1903.57	2993.87	1903.55	3002.52	1903.45
3007.79	1903.36	3010.15	1903.33	3012.95	1903.28	3014.13	1903.27	3015.15	1903.27
3020.58	1903.17	3022.22	1903.15	3024.03	1903.14	3026.59	1903.11	3028.3	1903.1
3028.43	1903.09	3042.29	1903.07	3053.19	1903.05	3056.13	1903.03	3059.76	1903.06
3073.37	1903.05	3079.92	1903.05	3093.63	1903.07	3099.23	1903.07	3106.04	1903.05
3107.17	1903.04	3107.86	1903.05	3109.97	1903.05	3112.42	1903.06	3113.52	1903.07
3119.83	1903.11	3121.02	1903.13	3125.09	1903.17	3128.66	1903.22	3130.35	1903.25
3136.59	1903.35	3145.61	1903.5	3169.57	1903.93	3173.57	1904	3175.78	1904
3188.11	1903.25	3190.11	1903.17	3191.33	1903.14	3191.89	1903.11	3192.38	1903.11
3193.51	1903.08	3194.42	1903.1	3195.27	1903.08	3197.95	1903.18	3199.78	1903.23
3200.55	1903.26	3223.74	1903.41	3239.29	1903.51	3241.97	1903.48	3244.87	1903.46
3277.46	1903	3312.71	1903	3337.62	1902.64	3339.32	1902.61	3346.82	1902.47
3351.32	1902.38	3362.3	1902.2	3369.7	1902	3372.09	1902	3379.81	1901.98
3383.23	1901.97	3393.11	1901.97	3393.9	1901.96	3403.4	1901.95	3434.13	1901.94
3453.78	1901.92	3497.03	1901.98	3505.24	1901.99	3506.87	1901.99	3514.09	1902
3515.05	1901.99	3522.4	1901.99	3527.24	1902	3537.27	1902.43	3537.6	1902.44
3543.68	1902.71	3545.05	1902.74	3545.39	1902.76	3549.06	1902.76	3551.1	1902.87
3558.51	1902.85	3560.78	1902.91	3561.79	1902.93	3565.29	1902.96	3568.19	1902.95
3574.11	1902.92	3575.76	1902.91	3577.85	1902.89	3578.38	1902.88	3579.25	1902.88
3580.23	1902.87	3583.25	1902.85	3588.76	1902.8	3590.91	1902.79	3597.54	1902.73
3598.5	1902.73	3599.87	1902.72	3640.57	1902.4	3656.69	1902.28	3662.39	1902.25
3663.45	1902.25	3664.63	1902.24	3686.54	1902.11	3703.38	1902	3735.84	1902
3746.63	1903	3752.08	1903.62	3754.93	1904	3756.1	1904.35	3758.36	1905
3761.43	1905.73	3762.68	1906	3764.31	1906.2	3773.72	1906.89	3775.13	1907
3776.07	1907.06	3784.79	1907.19	3791.82	1907.24	3791.93	1907.23	3792.84	1907.23
3792.95	1907.22	3796.55	1907.35	3812.07	1908	3813.01	1908	3816.1	1908.16
3818.21	1908.25	3819.27	1908.27	3821.04	1908.28	3822.67	1908.24	3824.51	1908.17
3824.64	1908.17	3826.79	1908.05	3826.81	1908.04	3827.97	1907.96	3829.63	1907.81
3831.42	1907.62	3835.89	1907	3842.45	1906.17	3843.67	1906	3845.04	1905.76
3849.64	1905	3851.64	1904.63	3854.82	1904	3862.04	1903.09	3862.61	1903
3900.71	1903	3902.93	1903.18	3905.02	1903.32	3914.08	1904	3916.19	1904.23
3916.37	1904.23	3919.36	1904.3	3921.93	1904.34	3922.42	1904.32	3924.68	1904
3934.25	1903	3937.29	1903	3940.21	1903.15	3940.3	1903.15	3944.39	1903.36
3954.86	1903.59	3955.81	1903.62	3962.91	1904	3974.19	1904	3978.29	1904.95
3978.64	1905	3979.62	1905.11	3980.21	1905.16	3980.93	1905.19	3981.46	1905.19
3983.6	1905.16	3986.86	1904.99	3989.61	1904.75	3990.74	1904.62	3991.54	1904.48
3992.26	1904.34	3993.26	1904.16	3993.57	1904.08	3994.59	1904	4009.87	1904
4017.52	1903.86	4017.99	1903.85	4020.17	1903.83	4048.76	1903.62	4050.24	1903.62
4059.27	1903.58	4059.64	1903.58	4064.16	1903.54	4068.81	1903.52	4074.06	1903.48
4077.21	1903.46	4077.85	1903.45	4099.45	1903.27	4132.13	1903	4160.75	1903
4170.73	1903.62	4176.93	1904	4192.98	1904.74	4199.14	1905	4199.45	1905.53
4200.44	1907.01	4201.13	1908	4201.95	1909.12	4202.58	1910	4203.14	1910.81
4203.26	1911	4203.84	1911.81	4204.53	1912.85	4204.61	1913	4205.27	1914
4205.92	1914.92	4206.85	1916.33	4207.38	1917	4208.48	1917.87	4208.87	1918.04
4211.62	1919	4212.79	1919.4	4214.37	1920	4217.72	1920.66	4218.87	1921
4221.32	1921.32	4221.87	1921.4	4223.37	1921.59	4226.09	1921.91	4227.02	1922
4229.91	1922	4231.46	1922.12	4236.97	1922.17	4237.38	1922.19	4237.86	1922.19

4249.45	1922.23	4252.49	1922.23	4254.24	1922.25	4255.6	1922.28	4257.1	1922.32
4261.84	1922.46	4265.66	1922.61	4269.66	1922.75	4273.41	1923	4278.05	1923.32
4283.39	1923.65	4285.02	1923.73	4285.64	1923.77	4290.06	1924	4297.28	1924.31
4305.54	1924.79	4306.43	1924.84	4308.59	1924.99	4308.66	1925	4469.9	1925

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	4469.9	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	4469.9	158.46	158.46	158.46	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1905.92	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.16	Wt. n-Val.		0.040	
W.S. Elev (ft)	1905.75	Reach Len. (ft)	158.46	158.46	158.46
Crit W.S. (ft)		Flow Area (sq ft)		6920.93	
E.G. Slope (ft/ft)	0.002637	Area (sq ft)		6920.93	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3129.75	Top Width (ft)		3129.75	
Vel Total (ft/s)	3.24	Avg. Vel. (ft/s)		3.24	
Max Chl Dpth (ft)	3.83	Hydr. Depth (ft)		2.21	
Conv. Total (cfs)	436181.9	Conv. (cfs)		436181.9	
Length Wtd. (ft)	158.46	Wetted Per. (ft)		3131.93	
Min Ch El (ft)	1901.92	Shear (lb/sq ft)		0.36	
Alpha	1.00	Stream Power (lb/ft s)	4469.90	0.00	0.00
Frctn Loss (ft)	0.43	Cum Volume (acre-ft)		164.83	
C & E Loss (ft)	0.00	Cum SA (acres)		74.97	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -19001.7

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1914.03	215.56	1912.29	225.37	1912.2	350.5	1910.98	353.54	1910.95
356.75	1910.92	361.11	1910.87	459.41	1909.92	475.75	1909.78	478.18	1909.76
478.91	1909.76	481.01	1909.74	481.45	1909.73	482.6	1909.72	483.19	1909.72
484.43	1909.71	488.5	1909.67	496.4	1909.59	497.52	1909.58	498.81	1909.57
582.92	1908.76	594.21	1908.65	594.97	1908.65	595.22	1908.64	597.69	1908.62
663.9	1907.98	665.88	1907.97	666.1	1907.96	674.89	1907.88	675.26	1907.88
676.32	1907.87	676.51	1907.86	683.61	1907.8	749.18	1907.17	760.96	1907.06
769.29	1906.98	818.75	1906.51	820.07	1906.5	824.72	1906.46	826.79	1906.44
829.52	1906.41	834.66	1906.36	839.28	1906.32	876.6	1905.96	878.47	1905.95
884.85	1905.89	890.86	1905.83	897.62	1905.76	925.44	1905.5	937.22	1905.39
939.24	1905.37	940.87	1905.36	941.06	1905.36	942.7	1905.34	943.46	1905.34
943.74	1905.33	944.44	1905.33	949.41	1905.28	970.97	1905.08	1027.35	1904.8
1033.26	1904.77	1054.1	1904.57	1056.73	1904.54	1078.33	1904.44	1087.93	1904.21
1088.44	1904.2	1089.2	1904.18	1090.08	1904.16	1090.18	1904.15	1091.17	1904.13
1091.35	1904.13	1093.51	1903.65	1094.46	1903.64	1095.47	1903.62	1095.71	1903.62
1097.82	1903.61	1098.81	1903.6	1099.08	1903.6	1100.35	1903.59	1100.72	1903.59
1103.71	1903.56	1104.12	1903.56	1104.45	1903.55	1110.99	1903.5	1111.23	1903.5
1111.38	1903.49	1112.19	1903.49	1127.09	1903.39	1137.14	1903.33	1137.89	1903.33
1143.64	1903.3	1149.85	1903.27	1150.92	1903.27	1157.29	1903.24	1158.02	1903.23
1158.98	1903.23	1159.92	1903.22	1160.46	1903.22	1161.17	1903.21	1177.81	1903.18
1196.62	1903.11	1198.19	1903.1	1199.49	1903.09	1207.5	1903	1298.21	1903
1301.68	1903.1	1311.01	1903.33	1312.85	1903.37	1313.89	1903.39	1317.72	1903.49
1318.9	1903.52	1321.61	1903.58	1322.62	1903.61	1325.45	1903.65	1332.13	1903.81
1334.69	1903.87	1338.38	1903.9	1342.37	1903.94	1342.85	1903.94	1347.3	1904
1498.1	1904	1500.03	1904.08	1551.92	1905	1553.19	1905	1553.54	1904.99
1571.07	1904.73	1595.84	1904.36	1598.68	1904.38	1601.01	1904.36	1609.21	1904.24
1621.19	1904.07	1621.91	1904.05	1622.71	1904.04	1623.06	1904.04	1623.79	1904.02
1624.62	1904.01	1625.08	1904	1671.64	1904	1683.67	1903.79	1684.01	1903.79
1689.36	1903.67	1695	1903.49	1710.29	1903	1710.99	1902.99	1713.08	1902.97
1713.82	1902.97	1720.02	1902.93	1720.73	1902.93	1729.85	1902.61	1746.2	1902.06
1746.25	1902.05	1746.4	1902.05	1747.5	1902	1747.71	1901.95	1753.63	1901
1754.51	1900.98	1755.15	1900.97	1755.88	1900.98	1756.56	1901	1762.52	1901.43
1770.61	1902	1776.58	1902.04	1779.82	1902.05	1784.31	1902.05	1787.65	1902.04
1788.49	1902.04	1793.9	1902.03	1799.64	1902.03	1806.31	1902.01	1806.78	1902.01
1807.13	1902	1818.89	1902	1825.01	1901.99	1848.8	1901.99	1860.7	1902
1869.75	1902.29	1884.87	1902.7	1895.41	1903	1948.29	1903	1969.73	1903.01
2009.71	1903.01	2035.32	1903	2066.68	1903	2068.81	1903.01	2073.87	1903.01
2083.45	1903	2084.7	1903	2085.62	1903.03	2085.77	1903.05	2085.93	1903.06
2086.26	1903.1	2090.21	1904	2093.31	1904.62	2095.45	1905	2097.77	1905.41
2100.84	1906	2103.79	1906.52	2106.76	1907	2115.88	1907	2117.98	1906.65
2122.26	1905.91	2125.34	1905.35	2127.26	1905	2128.21	1904.82	2128.99	1904.68
2131.2	1904.25	2132.51	1904	2394.46	1904	2404.26	1903.91	2415.88	1903.81
2417.12	1903.8	2417.28	1903.8	2418.26	1903.79	2424.39	1903.77	2432.02	1903.74
2432.8	1903.73	2512.14	1903.01	2513.19	1903	2515.99	1903	2539.39	1903.01
2581.57	1903.01	2585.23	1903.1	2602.17	1903.54	2618.14	1903.4	2649.75	1903.01

2650.33	1903	2721.54	1903	2722.55	1902.98	2729.06	1902.9	2729.33	1902.9
2773.17	1903	2781.01	1903	2781.72	1902.99	2786.64	1902.99	2819.32	1903
2838.42	1903	2844.57	1903.03	2854.23	1903.08	2854.86	1903.08	2859.24	1903.09
2861.81	1903.09	2868.8	1903.08	2874.79	1903.09	2885.67	1903.09	2888.8	1903.1
2892.36	1903.09	2893.29	1903.09	2914.36	1903.07	2932.51	1903.06	2936.17	1903.06
2939.7	1903.07	2941.69	1903.07	2947.91	1903.05	2949.07	1903.05	2954.32	1903.02
2956.29	1903.01	2958.34	1903.01	2958.77	1903	3100.55	1903	3167.22	1903.01
3194.55	1903.01	3237.48	1903	3248.92	1903	3251.86	1902.99	3255.15	1902.99
3257.15	1902.98	3257.68	1902.98	3277.48	1902.96	3286.53	1902.97	3289.93	1902.98
3292.45	1902.98	3305.35	1903	3328.33	1903	3340.35	1902.52	3343.68	1902.4
3345.74	1902.32	3347.83	1902.25	3354.29	1902.01	3354.65	1902	3362.98	1901.71
3379.57	1901	3398.92	1901	3399.94	1901.02	3400.18	1901.01	3400.99	1901
3447.31	1901	3466.61	1901.35	3504.61	1901.74	3521.27	1901.94	3525.65	1902
3666.21	1902	3668.87	1901.98	3693.58	1901.85	3694.76	1901.85	3713.7	1901.74
3720.07	1901.7	3723.35	1901.68	3726.48	1901.67	3730.04	1901.64	3730.76	1901.64
3766.62	1901.57	3798.61	1901.57	3798.92	1901.56	3799.25	1901.56	3804.81	1901.63
3805.07	1901.63	3812.09	1901.73	3812.28	1901.73	3812.52	1901.72	3820.84	1901.84
3821.16	1901.84	3831.79	1902	3840.42	1902	3849.53	1902.54	3857.96	1903
3858.48	1903	3859.64	1903.58	3860.86	1904	3862.88	1904.88	3863.77	1905.39
3864.82	1906	3865.23	1906.25	3866.2	1906.72	3866.85	1907	3867.56	1907.28
3868.39	1907.55	3868.69	1907.64	3869.21	1907.74	3869.36	1907.76	3869.55	1907.77
3869.99	1907.83	3870.17	1907.83	3870.92	1907.9	3871.43	1907.88	3879.5	1908
3879.84	1908	3879.89	1908.01	3880.41	1908.04	3880.7	1908.07	3881	1908.12
3881.45	1908.21	3881.7	1908.27	3882.25	1908.39	3882.77	1908.52	3883.61	1908.7
3884.02	1908.77	3884.19	1908.77	3888.88	1908.65	3895.32	1908.52	3895.71	1908.51
3895.9	1908.49	3896.2	1908.48	3896.27	1908.47	3896.72	1908.43	3897.3	1908.37
3899.93	1908.06	3900.54	1908	3900.73	1907.96	3900.82	1907.95	3901.42	1907.86
3903.06	1907.68	3905	1907.47	3907.4	1907.17	3908.43	1907	3915.29	1906.11
3915.99	1906	3918.83	1905.55	3920.63	1905	3924.87	1904.64	3925.65	1904.58
3926.31	1904.54	3928.21	1904.46	3928.52	1904.44	3930.18	1904.32	3930.38	1904.3
3931.14	1904.2	3931.61	1904.12	3931.8	1904.1	3932.13	1904	3937.46	1903.28
3939.1	1903	4025.98	1903	4029.1	1903.01	4038.62	1903.01	4048.15	1903
4075.79	1903	4082.44	1903.84	4084.11	1904	4085.17	1904.19	4088.68	1905
4090.14	1905.79	4090.59	1906	4091.49	1906.46	4092.59	1907	4093.2	1907.31
4094.91	1908	4096.22	1908.64	4097.03	1909	4098.6	1909.77	4099.56	1910.21
4101.19	1911	4103.31	1912	4104.11	1912.38	4105.43	1913	4106.49	1913.49
4107.57	1914	4108.86	1914.59	4109.74	1915	4111.22	1915.67	4111.94	1916
4112.91	1916.42	4114.2	1917	4115.98	1917.74	4116.59	1918	4117.22	1918.01
4118.87	1918.02	4122.31	1918.04	4131.85	1918.13	4139.75	1918.08	4145.67	1918.2
4145.74	1918.2	4150.06	1918.03	4150.4	1918.07	4150.45	1918.07	4150.94	1918
4151.81	1917.84	4156.57	1917	4160.34	1916.13	4160.76	1916	4162.37	1915.65
4162.72	1915.58	4163.02	1915.53	4163.51	1915.49	4163.8	1915.46	4164.16	1915.44
4165.41	1915.3	4165.65	1915.3	4165.87	1915.32	4167.44	1915.37	4171.36	1915.8
4171.61	1915.83	4172.65	1916	4175.68	1916.34	4180.95	1917	4188.78	1917.52
4193.65	1917.87	4195.38	1918	4195.61	1918	4200	1918.32	4209.59	1919
4209.95	1919.01	4216.9	1919.5	4221.9	1919.85	4223.74	1919.97	4224.13	1920
4235.44	1920.7	4236.47	1920.76	4241.17	1921	4241.67	1921	4244.14	1921.14
4247.12	1921.29	4248.27	1921.34	4261.63	1921.98	4262.63	1922	4262.94	1922.01
4265.99	1922.26	4268.73	1922.48	4270.17	1922.6	4270.91	1922.67	4274.13	1923
4277.82	1923.4	4283.37	1924	4298.32	1924.47	4304.72	1924.59	4308.87	1924.65
4308.95	1924.65	4321.18	1924.83	4321.44	1924.84	4323.29	1924.85	4323.53	1924.86
4324.2	1924.87	4325.33	1924.89	4326.9	1924.89	4328.03	1924.91	4328.83	1924.92
4331.28	1924.91	4338.83	1924.86	4338.97	1924.86	4339.06	1924.87	4341.85	1924.88

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	4341.85	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	4341.85	203.21	203.21	203.21	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1905.49	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.17	Wt. n-Val.		0.040	
W.S. Elev (ft)	1905.31	Reach Len. (ft)	203.21	203.21	203.21
Crit W.S. (ft)		Flow Area (sq ft)		6752.85	
E.G. Slope (ft/ft)	0.002776	Area (sq ft)		6752.85	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3059.01	Top Width (ft)		3059.01	
Vel Total (ft/s)	3.32	Avg. Vel. (ft/s)		3.32	
Max Chl Dpth (ft)	4.34	Hydr. Depth (ft)		2.21	
Conv. Total (cfs)	425146.0	Conv. (cfs)		425146.0	
Length Wtd. (ft)	203.21	Wetted Per. (ft)		3060.64	
Min Ch El (ft)	1900.97	Shear (lb/sq ft)		0.38	
Alpha	1.00	Stream Power (lb/ft s)	4341.85	0.00	0.00
Frctn Loss (ft)	0.52	Cum Volume (acre-ft)		139.96	
C & E Loss (ft)	0.00	Cum SA (acres)		63.72	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -19204.9

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1912.23	239.83	1910.44	835.03	1905.62	853.85	1905.44	898.34	1905.01
903.52	1904.96	908.99	1904.9	916.42	1904.83	949.15	1904.51	974.84	1904.29
978.67	1904.26	979.4	1904.26	979.62	1904.25	979.82	1904.25	983.12	1904.22
983.81	1904.22	985.62	1904.2	986.55	1904.19	988.5	1904.18	994.9	1904.12
1007.34	1904	1009.11	1903.98	1011.14	1903.96	1031.77	1903.76	1048.44	1903.6
1049.1	1903.59	1049.92	1903.59	1053.58	1903.55	1067.19	1903.42	1069.97	1903.39
1070.28	1903.39	1082.64	1903.27	1083.16	1903.27	1084.65	1903.25	1084.93	1903.25
1094.91	1903.16	1104.35	1903.07	1120.17	1902.92	1131.36	1902.81	1134.54	1902.78
1136.25	1902.76	1142.28	1902.71	1144.96	1902.68	1148.5	1902.65	1151.07	1902.62
1151.2	1902.68	1151.25	1902.68	1151.46	1902.74	1151.54	1902.76	1151.74	1902.76
1152.07	1902.83	1152.5	1902.83	1152.82	1902.88	1168.98	1902.94	1170.74	1902.97
1172.93	1903.01	1197.68	1903.01	1199.55	1903	1241.3	1903	1247.47	1903.13
1247.6	1903.13	1250.23	1903.17	1288.26	1903.65	1298.74	1903.77	1302.35	1903.77
1306.18	1903.75	1306.27	1903.75	1308.49	1903.72	1309.27	1903.72	1309.48	1903.71
1309.87	1903.72	1310.55	1903.72	1314.7	1903.67	1315.73	1903.67	1318.32	1903.66
1323.96	1903.56	1336.22	1903.26	1343.39	1903	1404.03	1903	1404.52	1903.01
1406.28	1903.01	1415.64	1903.13	1442.45	1903.43	1443.49	1903.45	1444.29	1903.46
1445.62	1903.49	1468.51	1903.97	1469.85	1903.98	1471.07	1903.99	1472.74	1903.99
1473.71	1904	1530.79	1904	1546.68	1903.68	1547.08	1903.67	1547.33	1903.67
1554.66	1903.53	1554.79	1903.53	1554.93	1903.52	1562.23	1903.55	1570.67	1903.61
1570.75	1903.6	1571.25	1903.63	1571.41	1903.62	1571.83	1903.65	1572.1	1903.63
1572.41	1903.64	1572.86	1903.62	1573.06	1903.63	1573.27	1903.63	1573.49	1903.64
1574.4	1903.64	1579.18	1903.45	1579.78	1903.44	1580.42	1903.43	1581.66	1903.39
1584.03	1903.3	1585.29	1903.25	1587.29	1903.17	1589.94	1903.01	1590.12	1903
1590.38	1903	1592.35	1902.92	1592.41	1902.92	1592.48	1902.91	1604.75	1902.63
1604.94	1902.63	1607.53	1902.59	1608.16	1902.57	1608.86	1902.55	1609.17	1902.54
1612.19	1902.46	1615.37	1902.38	1615.92	1902.36	1616.27	1902.34	1618.43	1902.3
1618.92	1902.29	1619.22	1902.28	1626.95	1902	1631.36	1901.94	1634.16	1901.94
1636.45	1901.92	1637.52	1901.92	1638.11	1901.91	1638.51	1901.91	1644.21	1901.92
1645.81	1901.91	1646.19	1901.91	1647.53	1901.8	1653.43	1901.43	1656.46	1901.32
1657.08	1901.3	1662.18	1901	1695.83	1901	1701.35	1901.69	1703.18	1901.91
1703.75	1902	1706.39	1902	1706.85	1901.99	1707.66	1901.99	1715.12	1901.19
1716.21	1901.07	1716.9	1901	1718	1900.78	1721.81	1900	1722.53	1900
1728.62	1899.99	1730.43	1899.99	1735.23	1900	1739.47	1900.54	1739.63	1900.56
1739.83	1900.58	1740.01	1900.57	1741.97	1900.7	1743.07	1900.76	1743.15	1900.76
1752.8	1900.6	1752.87	1900.6	1758.58	1900.85	1759.84	1900.92	1764.38	1901
1765.17	1901	1768.47	1901.2	1768.57	1901.2	1772.29	1901.37	1807.89	1901.75
1829.52	1901.99	1839.82	1901.99	1853.8	1902	1855.74	1902	1863.4	1902.26
1866.11	1902.36	1889.31	1903	2118.84	1903	2127.4	1903.04	2127.46	1903.04
2139.46	1903.13	2141.5	1903.14	2154.5	1903.1	2169.22	1903.03	2169.25	1903.03
2171.82	1903	2257.87	1903	2260.72	1903.01	2260.99	1903.01	2276.44	1903.03
2278.38	1903.03	2291	1903.01	2292.53	1903.01	2292.99	1903	2404.32	1903
2408.28	1902.2	2409.29	1902	2422.86	1902	2458.94	1902.31	2493.39	1902.6
2498.77	1902.62	2503.48	1902.64	2503.64	1902.64	2512.48	1902.57	2528.92	1902.33
2528.96	1902.33	2532.85	1902	2534.25	1901.73	2536.51	1901.38	2537.45	1901.24
2538.49	1901.1	2539.22	1901	2552.1	1901	2559.68	1901.56	2561.45	1901.62
2562.78	1901.67	2570.3	1901.78	2570.56	1901.78	2573.7	1901.88	2576.99	1902
2641.24	1902	2684.03	1902.27	2723.93	1902.33	2757.84	1902.38	2758.95	1902.38
2763.71	1902.36	2768.86	1902.33	2770.61	1902.33	2771.53	1902.34	2771.9	1902.34
2772.64	1902.35	2773.11	1902.35	2778.73	1902.39	2779.39	1902.39	2779.8	1902.4
2780.9	1902.4	2783.07	1902.42	2783.88	1902.42	2789.97	1902.46	2790.58	1902.46
2793.26	1902.48	2798.15	1902.48	2798.77	1902.49	2806.01	1902.49	2806.44	1902.5
2807.02	1902.49	2807.41	1902.5	2807.81	1902.5	2854.38	1902.51	2908.7	1902.41
2909.69	1902.41	2936.4	1902.15	2952.11	1902	3023.3	1902	3029.67	1902.2
3043	1902.54	3059.83	1902.98	3060.25	1902.99	3061.32	1903	3092.34	1903
3130.27	1902.6	3187.41	1902	3246.63	1902	3253.3	1902.01	3260.13	1902.01
3271.78	1902	3277.86	1902	3283.62	1901.77	3292.85	1901.41	3305.39	1901.03
3307.14	1901	3361.94	1901	3370.12	1901.34	3380	1901.88	3380.35	1901.9
3380.53	1901.91	3380.59	1901.91	3382.3	1902	3395.92	1902.38	3396.41	1902.38
3396.9	1902.39	3397.34	1902.39	3400.38	1902.47	3400.91	1902.47	3406.98	1902.61
3407.22	1902.61	3410.06	1902.67	3412.21	1902.7	3412.43	1902.71	3412.56	1902.7
3427.33	1902.62	3453.53	1902.47	3454	1902.47	3468.52	1902.3	3469.11	1902.29
3471.51	1902.27	3473.11	1902.25	3473.85	1902.24	3475.56	1902.22	3481.84	1902.15
3483.18	1902.14	3484.49	1902.13	3487.17	1902.09	3504.76	1902	3505.91	1902
3521.04	1901.99	3523.46	1901.98	3526.57	1901.98	3536.42	1901.96	3541.72	1901.96
3546.01	1901.95	3549.86	1901.95	3554.19	1901.94	3554.21	1901.94	3557.05	1901.93
3572.93	1901.47	3583.86	1901.2	3584.13	1901.19	3586.54	1901.24	3587.22	1901.22
3587.8	1901.21	3588.3	1901.19	3590.11	1901.25	3590.56	1901.25	3596.49	1901.46
3596.77	1901.46	3599.36	1901.53	3599.89	1901.55	3600.2	1901.56	3600.34	1901.56
3611.58	1902	3621.72	1902	3622.68	1901.98	3624.69	1901.94	3625.86	1901.92
3626.24	1901.92	3629.75	1902	3630.4	1902	3633.81	1901.4	3645.41	1901.1
3649	1901	3856.77	1901	3859.79	1901.15	3860.22	1901.17	3865.91	1901.45
3872.4	1901.76	3877.49	1902	3877.57	1902	3882.11	1902.92	3882.49	1903
3893.72	1903	3903.73	1903.4	3905.52	1903.47	3909.87	1903.65	3922.3	1903.26
3924.12	1903.21	3924.34	1903.2	3924.66	1903.2	3925.88	1903.13	3926.12	1903.13
3927.74	1903.05	3928.81	1903	3940.75	1903	3940.77	1903	3940.82	1903
3940.9	1903	3944.12	1903.23	3946.54	1903.38	3955.72	1904	3958.82	1904.84
3959.11	1904.92	3959.35	1905	3959.43	1905.03	3962.15	1906	3964.69	1906.91
3964.96	1907	3967.44	1907.87	3967.83	1908	3970.4	1908.88	3970.76	1909
3973.37	1909.91	3973.62	1910	3973.91	1910.09	3979.1	1911	3979.6	1911.16
3982.29	1912	3983.53	1912.39	3985.49	1913	3987.48	1913.6	3988.74	1914
3991.28	1914.81	3991.97	1915	3992.48	1915.15	3992.64	1915.18	3996.1	1916
3998.51	1916.45	3999.21	1916.58	3999.6	1916.66	4000.61	1916.87	4001.24	1917
4004.87	1917.75	4005.38	1917.86	4006.07	1918	4008.09	1918.44	4010.78	1919

4012.72	1919.4	4015.48	1920	4020.15	1920.98	4020.24	1921	4020.48	1921
4020.66	1921	4024.58	1921.24	4027.79	1921.42	4028.7	1921.47	4029.2	1921.5
4030.44	1921.56	4030.73	1921.58	4030.89	1921.59	4037.79	1921.97	4039.3	1922
4039.45	1922	4040.04	1922.02	4040.06	1922.02	4040.08	1922.02	4041.58	1922.07
4041.61	1922.07	4042.59	1922.1	4042.61	1922.1	4043.21	1922.12	4056.43	1923
4056.46	1923	4063.12	1923	4063.15	1923	4063.16	1923	4063.22	1923
4069.47	1923	4069.5	1923	4069.61	1923	4069.65	1923	4069.83	1923
4069.88	1923	4070.11	1923	4075.31	1923	4075.46	1923	4076.01	1922.99
4084.48	1922.87	4119.88	1922.4	4120.57	1922.39	4121.01	1922.39	4122.16	1922.37
4123.21	1922.35	4123.44	1922.35	4124.15	1922.34	4124.27	1922.34	4124.7	1922.33
4134.76	1922	4134.82	1922	4134.95	1922	4144.01	1922.32	4144.23	1922.32
4144.29	1922.32	4144.67	1922.33	4144.73	1922.33	4145.21	1922.34	4145.37	1922.34
4145.69	1922.34	4150.82	1922.45	4153.31	1922.53	4156.98	1922.66	4157.38	1922.67
4158.01	1922.68	4165.53	1923	4171.39	1923.01	4175.6	1923.01	4177.11	1923.01

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	4177.11	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	4177.11	173.2	173.2	173.2	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1904.96	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.16	Wt. n-Val.		0.040	
W.S. Elev (ft)	1904.81	Reach Len. (ft)	173.20	173.20	173.20
Crit W.S. (ft)		Flow Area (sq ft)		7082.17	
E.G. Slope (ft/ft)	0.002348	Area (sq ft)		7082.17	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3039.80	Top Width (ft)		3039.80	
Vel Total (ft/s)	3.16	Avg. Vel. (ft/s)		3.16	
Max Chl Dpth (ft)	4.82	Hydr. Depth (ft)		2.33	
Conv. Total (cfs)	462249.3	Conv. (cfs)		462249.3	
Length Wtd. (ft)	173.20	Wetted Per. (ft)		3040.92	
Min Ch El (ft)	1899.99	Shear (lb/sq ft)		0.34	
Alpha	1.00	Stream Power (lb/ft s)	4177.11	0.00	0.00
Frctn Loss (ft)	0.55	Cum Volume (acre-ft)		107.69	
C & E Loss (ft)	0.01	Cum SA (acres)		49.49	

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -19378.1

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1911.9	59.87	1911.28	117.05	1910.64	168.08	1910.07	188.08	1909.92
262.03	1909.04	298.04	1908.57	707.91	1905.77	1261.64	1901.57	1265.8	1901.54
1267.46	1901.52	1268.22	1901.52	1268.96	1901.51	1272.32	1901.49	1272.54	1901.48
1273.52	1901.48	1276.94	1901.45	1280.13	1901.43	1283.25	1901.4	1284.72	1901.39
1288.15	1901.37	1292.26	1901.34	1295.78	1901.31	1298.54	1901.29	1302.32	1901.26
1304.56	1901.47	1310.6	1902.04	1323.33	1902.97	1337.68	1902.97	1364.41	1902.99
1365.11	1903	1439.14	1903	1440.9	1902.97	1442.12	1902.97	1443.34	1902.98
1443.35	1902.98	1443.77	1903	1582.44	1903	1584.47	1902.99	1586.4	1902.99
1592.46	1902.98	1594.7	1902.98	1605.62	1903	1700.59	1903	1702.18	1902.96
1704.78	1902.91	1706.64	1902.86	1707.67	1902.89	1712.33	1903	1716.06	1903.98
1716.13	1904	1716.54	1904.1	1716.68	1904.15	1719.43	1904.91	1719.76	1905
1721.01	1905	1724.78	1904.43	1728.83	1904	1734.14	1903.77	1736.13	1903.68
1736.68	1903.65	1737.44	1903.62	1739.88	1903.49	1744.99	1903.22	1745.33	1903.2
1748.63	1903.01	1748.99	1903	1749.88	1902.99	1750.16	1902.99	1753.7	1902.98
1757.06	1902.99	1759.3	1903	1761.45	1903.13	1761.56	1903.14	1762.14	1903.17
1762.25	1903.18	1765.11	1903.36	1766.97	1903.47	1767.17	1903.47	1767.38	1903.48
1767.58	1903.48	1770.94	1903.39	1772.93	1903.18	1777.21	1903	1778.64	1902.11
1778.81	1902	1778.86	1901.97	1782.09	1901	1787.3	1900.1	1787.89	1900
1797.31	1899.87	1797.45	1899.87	1799.32	1899.89	1805.98	1899.98	1807.15	1900
1808.5	1900.1	1819.72	1901	1823.03	1901.59	1825.36	1902	1829.4	1902.73
1830.66	1902.93	1831.12	1903	1832.29	1903.17	1832.52	1903.2	1833.77	1903.36
1834.37	1903.42	1836.23	1903.63	1840.18	1904	1843.47	1904.31	1846.16	1904.65
1846.32	1904.66	1847.1	1904.76	1847.21	1904.76	1847.3	1904.77	1847.4	1904.78
1847.49	1904.78	1847.58	1904.79	1847.75	1904.79	1848.38	1904.73	1849.65	1904.57
1850.92	1904.29	1852.21	1904	1852.94	1903.83	1856.13	1903	1858.12	1902.47
1859.93	1902	1864.11	1901.66	1864.35	1901.66	1864.63	1901.67	1865.05	1901.64
1865.6	1901.65	1882.21	1901.42	1890.17	1901.31	1890.21	1901.31	1892.67	1901.33
1892.72	1901.34	1894.89	1901.36	1895.78	1901.37	1895.9	1901.37	1896.63	1901.38
1897.3	1901.39	1897.51	1901.39	1898.13	1901.4	1898.47	1901.4	1899.05	1901.41
1899.58	1901.41	1934.09	1901.94	1938.7	1901.94	1948.11	1901.93	1950.04	1901.94
1971.41	1901.98	1978.63	1901.99	1981.57	1901.99	1981.95	1902	1986.36	1902
1989.82	1902.09	1996.38	1902.25	1997.81	1902.24	1998.64	1902.25	1999.16	1902.26
2000.15	1902.26	2025.4	1902.46	2093.87	1903	2300.84	1903	2302.19	1902.99
2312.02	1902.94	2312.09	1902.94	2314.3	1902.93	2314.51	1902.93	2340.32	1902.76
2347.46	1902.72	2351.35	1902.69	2386.78	1902.82	2433.8	1903	2445.19	1903
2446.45	1902.63	2448.46	1902	2449.47	1901.69	2467.09	1901.47	2478.88	1901.46
2502.55	1901.82	2502.75	1901.82	2514.75	1902	2519.5	1902	2523.95	1902.01

2528.75	1902.01	2534.91	1902	2537.33	1902	2540.56	1901.03	2540.66	1901
2563.08	1901	2570.38	1900.99	2576.57	1901	2598.86	1901	2602.57	1901.06
2602.61	1901.06	2648.26	1901.57	2662.92	1901.7	2665.46	1901.7	2665.69	1901.69
2665.93	1901.7	2666.29	1901.69	2668.92	1901.69	2714.9	1901.73	2767.16	1901.78
2767.53	1901.79	2770.96	1901.81	2772.12	1901.82	2773.47	1901.82	2788.74	1901.98
2792.06	1901.98	2792.12	1901.99	2803.28	1901.99	2807.72	1901.98	2813.59	1901.99
2815.43	1902	2817.28	1901.99	2820.17	1901.99	2822.59	1902	2835.39	1902
2840.19	1902.01	2840.88	1902.01	2860.44	1902.02	2868.05	1902.02	2890.34	1902.03
2902.42	1902.02	2948.73	1902.02	2950.05	1902.01	2993.82	1902.01	3009.92	1902
3044.62	1902	3083.76	1901.64	3107.78	1901.43	3107.9	1901.43	3113.86	1901.52
3124.23	1901.74	3124.3	1901.74	3128.22	1901.93	3132.08	1902	3135.24	1902.35
3165.88	1902.49	3192	1902.45	3194.57	1902.43	3196.02	1902.41	3231.15	1902.01
3234.58	1902.01	3236.41	1902	3239.06	1902	3240.18	1901.96	3240.93	1901.94
3241.24	1901.93	3242.56	1901.87	3261.15	1901	3335.75	1901	3352.15	1901.73
3354.44	1901.84	3355.66	1901.9	3357.92	1902	3358.22	1902	3367.45	1902.04
3369.22	1902.05	3379.15	1902.09	3389.42	1902.14	3410.38	1902.05	3414.43	1902.03
3419.4	1902.04	3419.53	1902.04	3420.79	1902	3548.13	1902	3555.47	1901.99
3584.18	1901.99	3608.27	1902	3610.76	1902	3611.73	1902.01	3612.91	1902.01
3616	1902.02	3616.46	1902.02	3647.96	1902.45	3648.42	1902.46	3648.9	1902.47
3665.2	1902.57	3676.57	1902.63	3676.84	1902.64	3677.17	1902.65	3677.5	1902.65
3681.85	1902.58	3682.11	1902.59	3682.42	1902.59	3682.75	1902.6	3683.3	1902.6
3687.96	1902.53	3688.17	1902.53	3691.72	1902.59	3696.37	1902.69	3696.54	1902.69
3696.8	1902.68	3698.17	1902.68	3705.05	1902.85	3705.2	1902.85	3705.36	1902.86
3705.52	1902.86	3705.99	1902.87	3707.44	1902.85	3707.9	1902.85	3708.38	1902.84
3708.96	1902.83	3709.47	1902.82	3709.96	1902.81	3710.24	1902.8	3710.48	1902.79
3710.75	1902.78	3711.07	1902.77	3711.56	1902.75	3712.49	1902.7	3712.94	1902.68
3713.42	1902.66	3717.78	1902.38	3718.2	1902.35	3718.58	1902.33	3719.21	1902.29
3723.4	1902	3724.9	1901.9	3726.25	1901.81	3728.13	1901.66	3740.48	1901
3750.36	1901	3756.64	1901	3757.72	1901.02	3759.91	1901.05	3761.37	1901.03
3762.28	1901.01	3763.06	1901	3774.17	1901	3775.68	1901	3778.54	1901
3779.1	1901.02	3779.21	1901.03	3779.41	1901.02	3779.63	1901	3780.91	1901
3783.66	1901	3788.97	1901	3797.04	1901	3801.16	1901	3802.22	1901
3806.43	1901	3811.81	1901	3816.95	1901	3821.08	1901	3821.16	1901
3823.1	1901	3828.43	1901	3828.48	1901	3828.51	1901	3828.66	1901
3829.08	1901	3829.19	1901	3829.26	1901	3829.46	1901	3829.8	1901
3850.36	1901	3850.41	1901	3850.49	1901	3850.63	1901	3859.33	1901
3862.67	1901	3862.75	1901	3862.78	1901	3870.38	1901	3871.55	1901
3872.19	1901	3872.3	1901	3882.14	1901	3892.67	1901	3892.86	1901
3893.8	1901	3896.06	1901	3897.99	1901	3901.23	1901	3905.28	1901
3909.63	1901	3915.03	1901	3916.23	1901.22	3920.78	1902	3924.98	1902.71
3926.66	1903	3927.99	1903.23	3932.85	1904	3937.05	1904.71	3937.5	1904.78
3939.13	1905	3939.6	1905.02	3944.79	1905.87	3945.53	1906	3945.55	1906
3945.58	1906	3945.73	1906	3945.96	1906	3946.16	1906	3946.82	1906
3946.97	1906	3948.17	1906	3948.33	1906	3948.34	1906	3948.35	1905.99
3948.36	1905.99	3948.4	1905.99	3960.77	1905.52	3961.55	1905.51	3964.38	1905.41
3964.79	1905.39	3965.24	1905.36	3965.54	1905.35	3965.86	1905.34	3967.55	1905.25
3967.76	1905.24	3967.98	1905.24	3968.32	1905.24	3969.25	1905.24	3972.67	1905.25
3972.9	1905.25	3973.58	1905.24	3974.27	1905.24	3974.41	1905.23	3974.5	1905.23
3974.53	1905.23	3982.32	1905.04	3982.33	1905.04	3982.34	1905.04	3983.5	1905
3983.6	1905	3983.62	1905	3986.14	1904.98	3987.95	1904.99	3988.72	1905
3990.31	1905.59	3991.7	1906	3993.24	1906.47	3994.99	1907	3997.32	1907.71
3998.28	1908	4003.05	1908.82	4004.23	1909	4004.65	1909.07	4010.66	1910
4015.83	1910.82	4016.97	1911	4018.26	1911.24	4022.07	1912	4023.67	1912.74
4024.48	1913	4025.23	1913.21	4029.4	1914	4033.83	1914.82	4034.85	1915
4039.9	1915.91	4040.39	1916	4041.08	1916.13	4043.1	1916.48	4045.96	1917
4050.93	1917.92	4051.38	1918	4051.75	1918.07	4055.59	1918.75	4055.83	1918.79
4057.13	1919	4061.92	1919.54	4065.89	1920	4066.53	1920.08	4074.49	1921
4077.3	1921.19	4077.59	1921.21	4077.97	1921.22	4078.44	1921.23	4089.74	1921.79
4091.98	1921.91	4098.46	1922	4098.74	1922	4099.16	1922	4099.28	1922
4109.07	1922	4111.68	1922	4114.62	1922	4116.81	1922	4117.77	1922
4119.17	1922	4123.59	1922	4125.38	1922	4147.52	1922	4152.28	1922

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	4152.28	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	4152.28	210.95	210.95	210.95	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1904.41	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.23	Wt. n-Val.		0.040	
W.S. Elev (ft)	1904.18	Reach Len. (ft)	210.95	210.95	210.95
Crit W.S. (ft)		Flow Area (sq ft)		5814.02	
E.G. Slope (ft/ft)	0.004448	Area (sq ft)		5814.02	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	2995.99	Top Width (ft)		2995.99	
Vel Total (ft/s)	3.85	Avg. Vel. (ft/s)		3.85	
Max Chl Dpth (ft)	4.31	Hydr. Depth (ft)		1.94	
Conv. Total (cfs)	335859.5	Conv. (cfs)		335859.5	
Length Wtd. (ft)	210.95	Wetted Per. (ft)		2998.18	
Min Ch El (ft)	1899.87	Shear (lb/sq ft)		0.54	
Alpha	1.00	Stream Power (lb/ft s)	4152.28	0.00	0.00
Frctn Loss (ft)	0.71	Cum Volume (acre-ft)		82.05	
C & E Loss (ft)	0.02	Cum SA (acres)		37.49	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -19589.1

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1908.79	31.35	1908.57	407.82	1905.6	457.56	1905.1	481.62	1904.84
503.29	1904.6	532.24	1904.39	563.02	1904.03	578.16	1903.84	1109.3	1900.44
1127.08	1900.31	1127.9	1900.31	1128.03	1900.3	1129.29	1900.3	1129.6	1900.29
1130.68	1900.29	1130.84	1900.28	1131.19	1900.28	1134.84	1900.26	1151.03	1900.25
1191.3	1900.2	1195.3	1900.19	1212.4	1900.17	1220.14	1900.16	1236.67	1900.14
1253.8	1900.14	1277.63	1900.12	1302.77	1900.11	1329.02	1900.09	1335.57	1900.09
1343.65	1900.08	1351.07	1900.08	1369.37	1900.06	1374.69	1900.06	1377.42	1900.05
1379.94	1900.05	1380.78	1900.36	1381.15	1900.49	1381.43	1900.52	1381.87	1900.65
1382.1	1900.73	1382.35	1900.75	1382.55	1900.8	1382.68	1900.84	1382.83	1900.85
1382.99	1900.89	1387.84	1902	1424.94	1902	1425.65	1901.99	1449.85	1901.8
1452.3	1901.75	1454.78	1901.74	1456.17	1901.71	1457.36	1901.7	1461.95	1901.61
1470.75	1901.43	1471.89	1901.42	1472.92	1901.4	1474.11	1901.38	1475.89	1901.34
1481.63	1901.23	1486.92	1901.15	1493.11	1901	1499.72	1901	1504.91	1901.99
1504.98	1902	1509.37	1902.82	1509.69	1902.87	1510.38	1903	1511.22	1903.08
1514.78	1903.81	1515.77	1904	1516.2	1904	1516.8	1903.81	1517.92	1903.51
1518.45	1903.38	1520	1903.33	1520.14	1903.31	1520.68	1903.29	1521.22	1903.25
1521.92	1903.17	1522.78	1903.06	1522.8	1903.06	1523.98	1902.89	1524.99	1902.74
1526.64	1902.49	1529.88	1902	1531.48	1901.76	1531.64	1901.74	1532.42	1901.61
1534.59	1901.26	1536.28	1901	1542.03	1901	1542.28	1901.01	1542.59	1901.01
1552.86	1901.39	1553.68	1901.42	1555.47	1901.48	1556.26	1901.51	1557.03	1901.53
1557.94	1901.57	1558.29	1901.58	1558.72	1901.6	1559.05	1901.6	1559.32	1901.62
1559.46	1901.62	1559.52	1901.63	1559.71	1901.63	1559.79	1901.64	1573.55	1902
1601.2	1902	1612.85	1902.47	1616.64	1902.62	1618.79	1902.7	1619.51	1902.72
1622.54	1902.83	1623.89	1902.88	1624.92	1902.9	1626.01	1902.93	1626.1	1902.93
1627.86	1902.99	1628.4	1903	1628.79	1903.11	1632.43	1904	1633.33	1904.23
1635.95	1904.83	1636.58	1904.99	1636.64	1905	1636.91	1905.01	1637.17	1905.03
1643.15	1905.34	1644.78	1905.41	1646.18	1905.45	1646.67	1905.45	1646.92	1905.47
1647.4	1905.48	1647.65	1905.5	1647.98	1905.52	1648.39	1905.53	1648.81	1905.55
1650.59	1905.64	1651.33	1905.68	1656.96	1905.92	1657.9	1905.97	1658.44	1906
1674.66	1906	1677.97	1905.22	1678.82	1905	1681.85	1904.22	1682.01	1904.16
1682.49	1903.91	1684.18	1903	1685.13	1903	1698.98	1903.02	1705.21	1903.02
1708.54	1903.01	1713.5	1903.01	1716.18	1903	1720.69	1903	1721.34	1902.92
1721.8	1902.86	1722.63	1902.74	1723.6	1902.61	1724.51	1902.47	1725.2	1902.36
1725.6	1902.3	1725.93	1902.23	1727.49	1902	1732.3	1901.16	1733.41	1901
1738.04	1900.19	1739.11	1900	1747.54	1899.65	1760.11	1899.47	1761.53	1899.41
1773.61	1899.65	1773.62	1899.65	1779.57	1899.85	1779.6	1899.85	1783.7	1899.97
1785.03	1900	1793.61	1900.25	1796.38	1900.21	1797.23	1900.23	1802.59	1900.34
1806.58	1900.43	1808.86	1900.4	1811.61	1900.44	1832.01	1900.89	1832.86	1900.92
1836.39	1901	1896.94	1901	1904.79	1901.02	1907.34	1901.02	1914.83	1901.01
1917.2	1901.01	1919.59	1901.02	1925.63	1901.03	1931.18	1901.02	1931.7	1901.02
1934.83	1901.01	1937.06	1901.01	1941.15	1901.04	1941.48	1901.04	1941.81	1901.05
1942.7	1901.05	1943.22	1901.04	1943.79	1901.05	1945.79	1901.05	1949.01	1901.06
1953.36	1901.07	1957.35	1901.09	1957.72	1901.09	1961.84	1901.11	1962.03	1901.11
1965.71	1901.13	1971.15	1901.16	1979.4	1901.2	1984.91	1901.23	1992.57	1901.28
1995.29	1901.29	1997.56	1901.31	2000.32	1901.32	2001.25	1901.33	2003.4	1901.34
2023.82	1901.46	2037.85	1901.55	2038.54	1901.55	2065.13	1901.67	2080.56	1901.74
2081.8	1901.74	2082.16	1901.75	2084.22	1901.75	2084.99	1901.76	2086.02	1901.76
2103.07	1901.68	2137.16	1901.51	2137.33	1901.51	2143.95	1901.53	2146.03	1901.53
2147.07	1901.51	2148.2	1901.49	2148.47	1901.49	2148.77	1901.48	2154.24	1901.5
2160.28	1901.53	2160.64	1901.54	2160.83	1901.53	2161.5	1901.53	2169.57	1901.42
2169.99	1901.42	2174.71	1901.35	2175.05	1901.34	2175.53	1901.34	2176.75	1901.32
2177.91	1901.31	2180.15	1901.28	2181.98	1901.25	2185.18	1901.24	2185.89	1901.23
2186.39	1901.23	2188.33	1901.22	2190.17	1901.22	2193.41	1901.23	2193.91	1901.23
2194.72	1901.24	2198.66	1901.27	2202	1901.29	2207.84	1901.35	2213.34	1901.39
2215.71	1901.42	2216.26	1901.42	2217.14	1901.43	2217.62	1901.43	2218.15	1901.44
2219.2	1901.44	2219.5	1901.45	2222.07	1901.45	2223.57	1901.44	2243.02	1901.54
2256.95	1901.6	2258.4	1901.6	2265.59	1901.53	2266.3	1901.53	2272.03	1901.5
2277.29	1901.48	2277.86	1901.48	2285.71	1901.41	2286.18	1901.4	2289.03	1901.37
2289.84	1901.36	2290.3	1901.36	2305.26	1901.15	2305.53	1901.15	2307.52	1901.13
2309.17	1901.12	2309.33	1901.12	2315.4	1901	2336.74	1901	2337.38	1901.03
2340.98	1901.01	2341.32	1901	2344.26	1901.01	2363.46	1901.02	2367.98	1901.02
2390.42	1901	2397.4	1901	2418.06	1900.99	2470.22	1900.99	2505.64	1901
2523.93	1901	2528.59	1901.01	2529.64	1901.01	2530.16	1901	2578.91	1901
2580.21	1901.02	2581.62	1901.05	2581.67	1901.05	2599.8	1901.4	2600.26	1901.4
2603.59	1901.47	2604.01	1901.47	2615.86	1901.58	2634.46	1901.74	2644.74	1901.85
2649.56	1901.88	2654.38	1901.94	2659.68	1902	2676.4	1902	2680.24	1901.98
2680.35	1901.98	2711.24	1902	2854.54	1902	2856.5	1901.99	2860.69	1901.97
2862.49	1901.96	2867.64	1901.92	2870.35	1901.89	2880.16	1901.83	2884.63	1901.8
2888.15	1901.77	2892.63	1901.73	2894.24	1901.72	2898.43	1901.69	2901.78	1901.66
2981.26	1901.01	2982.88	1901	3026.2	1901	3027.6	1901.27	3031.28	1902
3033.46	1902.46	3033.71	1902.51	3033.97	1902.54	3035.46	1902.86	3035.52	1902.86
3038.19	1902.91	3040.53	1902.87	3041.46	1902.86	3042.65	1902.84	3043.21	1902.82
3053.07	1902.63	3071.7	1902.3	3077.5	1902.19	3077.71	1902.19	3079.16	1902.15
3080.57	1902.12	3080.65	1902.12	3081.9	1902.09	3083.21	1902.06	3083.3	1902.06
3086.01	1902.02	3086.1	1902.02	3088.36	1902	3092.05	1902	3103.56	1901.75
3130.43	1901	3231.84	1901	3233.24	1901.02	3276.54	1901.93	3279.71	1902

3424.86	1902	3429.82	1901.97	3430.9	1901.96	3432.66	1901.95	3439.39	1901.91
3458.68	1901.79	3575.32	1901.1	3579.19	1901.16	3580.62	1901.12	3585.73	1901.02
3586.08	1901.02	3586.89	1901	3737.66	1901	3743.04	1900.85	3773.09	1900
3780.04	1899.99	3785.46	1899.99	3789.81	1900	3803.01	1900	3803.4	1899.99
3803.91	1899.99	3804.12	1900	3805.64	1900	3809.14	1899.41	3809.65	1899.41
3813.9	1899.23	3815.81	1899.18	3819.17	1899.25	3821.68	1899.27	3821.95	1899.27
3822.39	1899.29	3828.69	1899.35	3828.85	1899.36	3831.44	1899.39	3837.44	1899.48
3838.5	1899.5	3839.17	1899.51	3839.57	1899.52	3841.65	1899.56	3844.14	1899.62
3844.34	1899.63	3844.52	1899.63	3844.71	1899.64	3855.29	1900	3860.44	1900.09
3860.64	1900.09	3861.97	1900.11	3878.66	1900.34	3883.87	1900.4	3888.3	1900.44
3892.53	1900.49	3898.34	1900.57	3906.91	1900.72	3920.88	1901	3922.44	1901.44
3924.37	1902	3925.9	1902.94	3925.95	1903.04	3926.32	1904	3926.36	1904.14
3926.69	1905	3926.75	1905.25	3927.03	1906	3927.12	1906.35	3927.35	1907
3927.46	1907.44	3927.66	1908	3927.74	1908.6	3927.87	1909	3928.05	1909.66
3928.16	1910	3928.38	1910.77	3928.45	1911	3928.74	1911.97	3928.87	1912.05
3930.61	1913	3931.61	1913.55	3932.47	1914	3933.93	1914.73	3934.38	1915
3935.62	1915.64	3936.34	1916	3938.03	1916.81	3938.54	1917	3938.62	1917
3939.47	1917.08	3940.29	1917.16	3948.55	1917.99	3948.8	1917.99	3949.19	1918
3951.62	1918.24	3952.34	1918.32	3952.75	1918.37	3952.96	1918.41	3958.57	1919
3962.23	1919.39	3967.1	1920	3972.52	1920.45	3975.04	1920.65	3977.76	1920.88
3979.51	1921	3990.02	1921.65	3994.67	1922	4023.22	1922.07	4035.34	1922.09
4069.62	1922.02	4070.32	1922.01	4076.53	1922	4078.05	1922	4082.34	1921.98

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	4082.34	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	4082.34	156.22	156.22	156.22	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1903.68	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.16	Wt. n-Val.		0.040	
W.S. Elev (ft)	1903.52	Reach Len. (ft)	156.22	156.22	156.22
Crit W.S. (ft)		Flow Area (sq ft)		7041.14	
E.G. Slope (ft/ft)	0.002609	Area (sq ft)		7041.14	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3241.06	Top Width (ft)		3241.06	
Vel Total (ft/s)	3.18	Avg. Vel. (ft/s)		3.18	
Max Chl Dpth (ft)	4.34	Hydr. Depth (ft)		2.17	
Conv. Total (cfs)	438536.3	Conv. (cfs)		438536.3	
Length Wtd. (ft)	156.22	Wetted Per. (ft)		3243.41	
Min Ch El (ft)	1899.18	Shear (lb/sq ft)		0.35	
Alpha	1.00	Stream Power (lb/ft s)	4082.34	0.00	0.00
Frctn Loss (ft)	0.33	Cum Volume (acre-ft)		50.93	
C & E Loss (ft)	0.01	Cum SA (acres)		22.39	

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -19745.3

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1904.46	337.45	1902.47	702.62	1900.04	743.69	1900	1222.01	1900
1233.81	1899.99	1430.64	1899.99	1436.93	1900.56	1442.57	1901.07	1443.32	1901.14
1443.55	1901.16	1444.56	1901.24	1444.81	1901.26	1450.91	1901.73	1451.35	1901.77
1454.24	1902	1456.2	1902.65	1457.23	1903	1457.71	1903.16	1459.9	1904
1461.69	1904.92	1461.92	1905	1462.36	1905.18	1462.52	1905.23	1462.72	1905.3
1462.91	1905.35	1463.05	1905.37	1463.79	1905.6	1463.88	1905.61	1464.35	1905.69
1464.67	1905.73	1464.92	1905.71	1464.97	1905.72	1465.12	1905.72	1465.55	1905.68
1465.82	1905.67	1466.28	1905.65	1466.89	1905.59	1468.97	1905.27	1469.62	1905.18
1469.91	1905.12	1470.55	1905	1471.76	1904.8	1476.31	1904	1478.53	1903.8
1482.41	1903.42	1482.53	1903.41	1482.63	1903.39	1484.86	1903.11	1484.9	1903.11
1484.97	1903.09	1485.68	1903	1505.02	1903	1506.09	1902.97	1507.66	1902.92
1507.67	1902.92	1507.69	1902.91	1507.7	1902.91	1528.31	1902.71	1541.34	1902.58
1543.49	1902.62	1543.55	1902.62	1544.56	1902.63	1545.28	1902.64	1550.16	1902.68
1550.58	1902.68	1550.83	1902.69	1550.94	1902.69	1562.98	1902.91	1567.41	1903
1580.87	1903	1581.48	1902.93	1585.31	1902.49	1589.75	1902	1597.57	1902
1602.09	1902.66	1604.69	1903	1622.18	1903.77	1626.43	1904	1627.97	1904.21
1628.08	1904.22	1628.22	1904.23	1628.83	1904.27	1629.83	1904.33	1630.88	1904.44
1631.54	1904.47	1631.97	1904.49	1634.46	1904.73	1634.97	1904.77	1635.37	1904.79
1636.91	1904.77	1640.6	1904.5	1640.76	1904.51	1640.87	1904.5	1640.98	1904.5
1641.09	1904.49	1641.3	1904.46	1641.62	1904.42	1643.85	1904	1645.19	1903.71
1648.38	1903	1651.48	1902.37	1653.33	1902	1655.36	1901.6	1658.64	1901
1682.33	1901	1682.83	1900.94	1686.95	1900.46	1687.04	1900.46	1687.61	1900.43
1688.26	1900.39	1688.43	1900.38	1688.72	1900.37	1689.14	1900.35	1692.53	1900
1696.04	1899.29	1697.44	1899.06	1697.82	1899	1735.7	1899	1742.26	1899.34
1756.72	1900	1757.33	1900	1760.89	1900.01	1765.84	1900.01	1766.07	1900
1766.56	1900	1767.48	1900.01	1780.04	1900.01	1782.73	1900.03	1782.74	1900.03
1791.08	1900.04	1791.86	1900.04	1806.05	1900.01	1808.68	1900.01	1808.99	1900.02

1810.02	1900.03	1810.11	1900.04	1810.45	1900.04	1810.7	1900.05	1810.91	1900.05
1811.35	1900.06	1812.12	1900.08	1812.98	1900.1	1814.21	1900.13	1815.71	1900.18
1817.59	1900.23	1823.96	1900.42	1838.24	1900.84	1842.91	1901	1994.51	1901
1995.65	1901.12	2007.44	1902	2008.92	1902	2014.86	1902.51	2015.2	1902.55
2015.64	1902.6	2016.13	1902.64	2016.61	1902.67	2016.98	1902.69	2017.1	1902.7
2017.66	1902.73	2018.13	1902.75	2019.67	1902.75	2020.03	1902.74	2020.31	1902.73
2020.9	1902.69	2021.77	1902.6	2021.97	1902.59	2022.09	1902.58	2022.15	1902.57
2022.21	1902.57	2022.32	1902.55	2022.48	1902.53	2022.67	1902.49	2025.17	1902
2027.73	1901.49	2030.91	1901	2033.07	1901	2034.74	1901.01	2036.57	1901.01
2039.17	1901.03	2043.67	1901.03	2046.84	1901.04	2057.32	1901.04	2060.88	1901.03
2069.06	1901.01	2072.8	1901	2074.56	1901	2087.88	1900.99	2103.66	1900.99
2109.78	1901	2125.77	1901	2138.02	1901.23	2145.45	1901.33	2154.81	1901.49
2181.24	1901.94	2183.32	1901.97	2184.69	1902	2184.95	1902	2205.18	1902.74
2208.72	1902.83	2213.25	1903	2243.5	1903	2244.21	1902.91	2248.25	1902.41
2251.82	1902	2254.74	1901.13	2255.09	1901.03	2255.19	1901	2255.32	1900.96
2258.69	1900	2268.28	1899.98	2272.6	1899.97	2272.95	1899.97	2292.52	1899.94
2293.64	1899.93	2294.86	1899.93	2304.71	1899.95	2311.87	1899.97	2315.59	1899.97
2331.1	1899.99	2331.99	1900	2332.25	1900	2338.29	1900.04	2354.35	1900.13
2360.12	1900.16	2440.52	1901	2602.39	1901	2606.44	1901.02	2616.15	1901.06
2620.02	1901.07	2620.78	1901.07	2622.11	1901.08	2622.19	1901.08	2623.39	1901.09
2623.63	1901.09	2625.33	1901.1	2626.44	1901.1	2675.02	1901	2912.4	1901
2950.21	1900.97	2965.95	1900.98	2992.54	1900.98	2993.36	1900.97	2996.14	1900.99
2996.29	1900.99	2996.51	1900.98	2997.47	1900.98	3000.18	1901	3004.26	1901.6
3006.03	1902	3010.14	1903	3010.26	1903	3010.79	1903.01	3011.13	1903
3011.6	1903	3011.95	1902.98	3012.11	1902.98	3018.17	1902.76	3018.28	1902.76
3027.01	1902.67	3054.13	1902.25	3062.42	1902.11	3067.96	1902	3068.15	1902
3072.96	1901.43	3076.58	1901	3078.96	1900.76	3079.16	1900.74	3086.83	1900
3137.41	1900	3144.16	1900.31	3160.58	1901	3396.34	1901	3396.45	1901
3404.94	1901.25	3405.04	1901.25	3406.37	1901.3	3406.64	1901.31	3420.64	1901.78
3421.01	1901.79	3422.97	1901.86	3423.27	1901.87	3425.56	1901.94	3427.08	1902
3430.08	1902.18	3443.51	1903	3448.16	1903	3454.6	1903	3459.52	1902.64
3467.89	1902	3476.64	1901.89	3476.76	1901.89	3476.88	1901.89	3492.49	1901.47
3509.68	1901.01	3510	1901.01	3511.21	1901.01	3516.3	1901.01	3516.34	1901.01
3517.04	1901.01	3517.28	1901.01	3518.87	1901.01	3524.69	1901.01	3524.71	1901.01
3524.91	1901.01	3532.43	1901.01	3532.45	1901.01	3532.57	1901.01	3533.01	1901.01
3533.02	1901.01	3533.1	1901.01	3533.11	1901.01	3533.14	1901.01	3535	1901.01
3535.04	1901.01	3536.57	1901.01	3536.59	1901.01	3536.65	1901.01	3546.21	1901.01
3574.57	1901	3579.19	1901	3590.41	1901	3590.66	1901	3590.79	1901
3590.8	1901	3590.86	1901	3591.02	1901	3591.6	1901	3592.1	1901
3594.05	1901	3623.1	1901	3633.15	1901	3655.28	1901	3669.3	1901
3670.94	1901	3671.3	1901	3671.98	1901	3672.5	1901	3676.42	1901
3678.39	1901	3678.74	1901	3688	1901	3696.7	1901	3700.84	1901
3712.5	1901	3713.26	1901	3713.94	1901	3714.62	1901	3715.13	1901
3717.25	1901	3717.98	1901	3718.21	1901	3720.2	1901	3724.22	1901.39
3726.26	1901.58	3727.75	1901.73	3730.66	1902	3734.11	1902	3735.34	1902
3736.03	1902	3736.47	1902	3737.02	1902	3738.46	1902	3743.49	1901.02
3743.63	1901	3749.92	1900.1	3750.52	1900	3779.38	1899.48	3800.96	1899.1
3803.65	1899.05	3806.67	1899	3807.49	1899	3807.79	1899	3816.52	1899
3816.97	1899	3818.54	1899	3822.97	1899.03	3825.15	1899.04	3833.31	1899.11
3834.34	1899.1	3837.24	1899.09	3838.94	1899.08	3852.95	1899.56	3853.13	1899.53
3853.35	1899.51	3853.55	1899.49	3853.71	1899.49	3853.82	1899.49	3853.87	1899.5
3853.9	1899.5	3853.98	1899.51	3856.23	1900	3858.33	1900.36	3862.11	1901
3866.26	1901.69	3868.09	1902	3870.73	1902.94	3870.81	1903	3871.02	1903.13
3872.39	1904	3873.14	1904.43	3873.9	1905	3875.09	1905.88	3875.25	1906
3875.38	1906.1	3876.6	1907	3876.94	1907.67	3877.1	1908	3877.43	1908.73
3877.54	1909	3877.94	1909.89	3877.99	1910	3878.01	1910.05	3878.44	1911
3878.64	1911.46	3878.95	1912	3879.2	1912.61	3879.44	1913	3879.76	1913.94
3879.79	1914	3880.05	1914.41	3880.43	1915	3880.46	1915.08	3880.99	1916
3881.12	1916.31	3881.46	1917	3881.95	1917.75	3882.06	1918	3882.44	1918.17
3883.09	1919	3887.91	1919.99	3887.97	1920	3888.09	1920.02	3893.34	1921
3902.55	1921.01	3902.74	1921.01	3903.03	1921.01	3903.21	1921.01	3903.23	1921.01
3903.3	1921.01	3903.31	1921.01	3903.43	1921.01	3903.45	1921.01	3903.69	1921.01
3903.73	1921.01	3904.11	1921	3904.2	1921	3908.37	1921	3908.59	1921
3909.08	1921	3909.37	1921	3910.06	1921	3916.15	1921	3916.36	1921
3917.03	1921	3917.26	1921	3918.01	1921	3918.04	1921	3918.27	1921
3919.02	1921	3919.25	1921	3919.95	1921	3919.96	1921	3920.13	1921
3920.62	1921	3920.73	1921	3921.03	1921	3921.05	1921	3921.12	1921
3921.28	1921	3921.32	1921	3921.39	1921	3921.43	1921	3921.45	1921
3921.48	1921	3921.55	1921	3921.58	1921	3921.67	1921	3921.73	1921
3921.86	1921	3921.95	1921	3922.06	1921	3922.25	1921	3922.37	1921
3922.76	1921.01	3923.16	1921.01	3923.94	1921.01	3940.24	1921.16	3975.12	1921.63

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	3975.12	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
0	3975.12	153.58	153.58	153.58	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1903.34	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.11	Wt. n-Val.		0.040	
W.S. Elev (ft)	1903.23	Reach Len. (ft)	153.58	153.58	153.58
Crit W.S. (ft)		Flow Area (sq ft)		8336.74	
E.G. Slope (ft/ft)	0.001708	Area (sq ft)		8336.74	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	3598.63	Top Width (ft)		3598.63	

Vel Total (ft/s)	2.69	Avg. Vel. (ft/s)		2.69	
Max Chl Dpth (ft)	4.23	Hydr. Depth (ft)		2.32	
Conv. Total (cfs)	541952.4	Conv. (cfs)		541952.4	
Length Wtd. (ft)	153.58	Wetted Per. (ft)		3601.24	
Min Ch El (ft)	1899.00	Shear (lb/sq ft)		0.25	
Alpha	1.00	Stream Power (lb/ft s)	3975.12	0.00	0.00
Frctn Loss (ft)	0.42	Cum Volume (acre-ft)		23.35	
C & E Loss (ft)	0.02	Cum SA (acres)		10.12	

Warning: Divided flow computed for this cross-section.
Warning: The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7 or greater than 1.4.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: MOJAVE
REACH: MOJAVE RS: -19898.9

INPUT
Description:
Station Elevation Data num= 461

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1904	1228.16	1902.93	1229.54	1903	1230.19	1903.04	1230.67	1903.05
1231.67	1903.08	1232.27	1903.08	1233.18	1903.06	1234.64	1903.02	1235.03	1903.05
1235.04	1903.05	1235.71	1903	1239.22	1902.85	1239.56	1902.84	1239.74	1902.83
1239.94	1902.82	1240.16	1902.81	1240.43	1902.79	1241.32	1902.74	1241.69	1902.72
1242.49	1902.66	1246.83	1902.29	1248.33	1902.18	1248.55	1902.16	1248.73	1902.15
1249.64	1902.07	1250.54	1902	1250.71	1902	1250.79	1901.99	1251.44	1901.99
1259.02	1901.96	1265.5	1901.93	1276.59	1901.98	1279.87	1901.98	1280.7	1902
1284.68	1902.41	1284.92	1902.44	1285.2	1902.47	1285.63	1902.49	1286.04	1902.5
1286.56	1902.49	1286.82	1902.51	1287.16	1902.53	1287.58	1902.55	1288.03	1902.55
1291.04	1902.56	1291.49	1902.56	1291.91	1902.55	1292.24	1902.53	1292.53	1902.52
1292.83	1902.5	1293.03	1902.48	1293.8	1902.39	1294.05	1902.36	1294.28	1902.33
1296.65	1902	1297.79	1901.83	1299.19	1901.6	1299.8	1901.54	1300.6	1901.44
1301.81	1901.26	1303.49	1901	1306.21	1901	1316.35	1900.88	1328.18	1900.76
1329.09	1900.71	1330.06	1900.66	1336.07	1900.36	1336.95	1900.32	1340.37	1900.22
1343.26	1900	1344.01	1899.99	1344.5	1899.97	1350.9	1899.76	1351.62	1899.74
1367.62	1899.14	1367.97	1899.13	1370.16	1899	1371.31	1899	1400.51	1898.99
1416.57	1898.99	1427.61	1899	1436.9	1899	1452.16	1899.71	1452.35	1899.71
1452.54	1899.72	1452.72	1899.73	1454.29	1899.79	1456.36	1899.87	1456.61	1899.88
1456.75	1899.89	1460.02	1900	1468.03	1900.01	1472	1900.01	1478.08	1900
1478.34	1900	1479.17	1899.97	1479.86	1899.95	1480.29	1899.94	1481.09	1899.92
1481.76	1899.89	1482.02	1899.89	1487.14	1899.72	1490.72	1899.62	1497.46	1899.05
1497.7	1899.03	1498.18	1899	1501.92	1899	1527.77	1899.51	1550.29	1899.95
1552.77	1900	1555.83	1900.13	1556.07	1900.14	1560.48	1900.27	1575.67	1900.81
1583.1	1901	1727.84	1901	1728.15	1900.87	1729.96	1900	1730.8	1899.69
1732.53	1899	1776.05	1899	1835.55	1899.58	1839.59	1899.59	1845	1899.59
1847.97	1899.63	1848.88	1899.63	1861.45	1899.81	1862.01	1899.81	1862.64	1899.82
1875.76	1900	1888.21	1900.09	1918.69	1900.29	1924.23	1900.34	1944.44	1900.48
1945.43	1900.49	1946.57	1900.5	1958.8	1900.59	1959.97	1900.6	1961.24	1900.61
1963.11	1900.62	1976.55	1900.72	1977.2	1900.73	2002.36	1900.91	2004.82	1900.93
2014.81	1901	2334.92	1901	2336.35	1901	2356.04	1901	2365.83	1901
2373.51	1901	2383.21	1901	2390.41	1901	2390.55	1901	2390.83	1901
2391.01	1901	2408.61	1900.77	2411.85	1900.73	2465.94	1900	2466.27	1900
2466.35	1900	2467.2	1900	2468.04	1900	2468.91	1900	2469.54	1900
2470.16	1900	2470.38	1900	2470.48	1900	2470.95	1900	2472.83	1900
2483.66	1900	2490.31	1900	2499.54	1900	2499.86	1900	2500.31	1900
2500.54	1900	2501.64	1900	2502.12	1900	2502.62	1900	2502.68	1900
2503.05	1900	2505.45	1900	2505.49	1900	2505.94	1900	2506.19	1900
2506.37	1900	2507.58	1900	2514.22	1900	2520.81	1900	2521.17	1900
2521.53	1900	2524.65	1900	2525.77	1900	2529.83	1900	2530.86	1900
2532.23	1900	2536.21	1900	2539.82	1900	2541.79	1900	2549.92	1900
2560.43	1900.03	2569.69	1900.07	2573.13	1900.09	2576.56	1900.1	2586.23	1900.07
2599.78	1900	2602.24	1900	2614.06	1900	2615.16	1900	2615.28	1900
2615.29	1900	2619.5	1900	2623.15	1900	2624.94	1900	2625.47	1900
2626.94	1900	2630.17	1900	2631.06	1900	2634.73	1900	2638.42	1900
2638.49	1900	2638.53	1900	2638.55	1900	2638.59	1900	2638.65	1900
2638.79	1900	2639.04	1900	2639.13	1900	2644.92	1900.15	2645.04	1900.15
2645.24	1900.16	2656.54	1900.38	2657.12	1900.39	2657.77	1900.39	2660.35	1900.43
2661.09	1900.43	2662.54	1900.44	2669.88	1900.56	2670.69	1900.56	2671.15	1900.56
2671.61	1900.57	2675.09	1900.6	2675.86	1900.6	2676.36	1900.6	2676.76	1900.61
2677.05	1900.6	2677.39	1900.61	2677.55	1900.61	2677.82	1900.61	2677.89	1900.61
2677.94	1900.61	2678.16	1900.62	2678.26	1900.61	2678.45	1900.62	2694.69	1900.46
2704.38	1900.37	2708.19	1900.37	2709.85	1900.39	2709.99	1900.39	2712.28	1900.41
2788.02	1900.49	2799.96	1900.48	2863.58	1900.41	2863.68	1900.41	2876.37	1900.33
2877.48	1900.33	2897.25	1900.2	2926.26	1900	2926.28	1900	2926.29	1900
2926.31	1900	2926.32	1900	2926.46	1900	2926.6	1900	2926.63	1900
2926.65	1900	2926.67	1900	2933.91	1900.22	2938.79	1900.37	2948	1900.49
2954.69	1900.61	2967.64	1900.87	2969.74	1900.9	2970.66	1900.92	2971.68	1900.93
2972.12	1900.94	2977.03	1901	2977.13	1901	2977.75	1901	2977.76	1901
2978.47	1901	2978.48	1901	2979.13	1901	2979.62	1901	2979.99	1901
2980	1901	2981.94	1901	2982	1901	2986	1901	3003.82	1901
3014.84	1901	3015.31	1901	3037.49	1901	3046.98	1900.32	3049.15	1900.18
3049.71	1900.15	3050.09	1900.12	3050.23	1900.11	3052.06	1900	3058.77	1899.96
3061.36	1899.91	3075.32	1899.68	3076.25	1899.67	3076.28	1899.67	3076.35	1899.67

3077.12	1899.66	3077.23	1899.66	3077.98	1899.65	3078.13	1899.65	3078.87	1899.64
3089.32	1899.55	3097.28	1899.49	3097.56	1899.49	3097.86	1899.49	3098.07	1899.49
3098.21	1899.49	3098.51	1899.49	3098.58	1899.49	3098.62	1899.49	3103.87	1899.44
3103.9	1899.44	3103.97	1899.45	3107.42	1899.42	3112.18	1899.4	3112.3	1899.4
3128.2	1899.43	3146.94	1899.47	3147.24	1899.47	3148.53	1899.49	3149.77	1899.5
3176.18	1899.64	3191.13	1899.71	3191.29	1899.71	3191.38	1899.71	3204.72	1899.67
3222.94	1899.61	3224.3	1899.6	3224.77	1899.59	3232.29	1899.6	3232.71	1899.59
3233.13	1899.59	3233.37	1899.59	3233.8	1899.59	3233.93	1899.59	3234.91	1899.58
3239.14	1899.57	3243.2	1899.56	3244.24	1899.55	3244.6	1899.55	3244.98	1899.55
3246.04	1899.55	3246.39	1899.54	3246.91	1899.54	3266.38	1899.36	3304.17	1899
3304.22	1899	3306.33	1899	3307.54	1899	3309.74	1899	3313.07	1899
3313.12	1899	3313.16	1899	3313.43	1899	3313.44	1899	3339.18	1899.01
3345.58	1899.01	3348.34	1899.01	3350.91	1899.01	3357.23	1899.01	3361.5	1899.01
3361.6	1899.01	3369.11	1899.81	3369.52	1899.79	3369.73	1899.78	3370.19	1899.82
3370.36	1899.81	3370.49	1899.81	3371.98	1899.91	3373.19	1900	3373.25	1900
3373.31	1900	3373.32	1900	3373.33	1900	3375.95	1900.4	3377.64	1900.66
3379.92	1901	3384.04	1901.63	3386.47	1902	3386.73	1902.15	3388.04	1902.94
3388.18	1903	3388.25	1903.06	3389.31	1904	3389.48	1904.16	3390.42	1905
3390.78	1905.32	3391.54	1906	3392	1906.41	3392.67	1907	3393.27	1907.79
3393.45	1908	3393.49	1908.15	3393.73	1909	3393.77	1909.14	3394.01	1910
3394.25	1910.87	3394.28	1911	3394.32	1911.14	3394.57	1912	3394.8	1912.83
3394.84	1913	3395.08	1913.88	3395.11	1914	3395.15	1914.12	3395.38	1915
3395.42	1915.16	3395.64	1916	3395.87	1916.88	3395.9	1917	3395.94	1917.12
3396.1	1918	3396.15	1918.19	3397.75	1919	3398.75	1919.1	3404.89	1920
3405.45	1920.06	3405.85	1920.1	3406.16	1920.13	3406.7	1920.18	3407.73	1920.27
3416.37	1921	3417.12	1921	3417.54	1921	3417.58	1921	3417.91	1921
3421.55	1921.08	3423	1921.11	3424.56	1921.14	3427.67	1921.21	3453.42	1921.88
3454.44	1921.9	3455.23	1921.92	3456.2	1921.95	3458.17	1922	3458.2	1922
3458.68	1922	3458.91	1922	3463.2	1922	3470.21	1922	3474.12	1922
3474.98	1922								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	0	.04	3474.98	.045

Bank Sta: Left	Right	Coeff Contr.	Expan.
0	3474.98	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	1902.90	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.32	Wt. n-Val.		0.040	
W.S. Elev (ft)	1902.58	Reach Len. (ft)			
Crit W.S. (ft)	1901.75	Flow Area (sq ft)		4909.37	
E.G. Slope (ft/ft)	0.005002	Area (sq ft)		4909.37	
Q Total (cfs)	22400.00	Flow (cfs)		22400.00	
Top Width (ft)	2143.97	Top Width (ft)		2143.97	
Vel Total (ft/s)	4.56	Avg. Vel. (ft/s)		4.56	
Max Chl Dpth (ft)	3.59	Hydr. Depth (ft)		2.29	
Conv. Total (cfs)	316722.3	Conv. (cfs)		316722.3	
Length Wtd. (ft)		Wetted Per. (ft)		2145.11	
Min Ch El (ft)	1898.99	Shear (lb/sq ft)		0.71	
Alpha	1.00	Stream Power (lb/ft s)	3474.98	0.00	0.00
Frctn Loss (ft)		Cum Volume (acre-ft)			
C & E Loss (ft)		Cum SA (acres)			

SUMMARY OF MANNING'S N VALUES

River:MOJAVE

Reach	River Sta.	n1	n2	n3
MOJAVE	-0	.045	.04	.045
MOJAVE	-102.64	.045	.04	.045
MOJAVE	-213.85	.045	.04	.045
MOJAVE	-304.35	.045	.04	.045
MOJAVE	-389.51	.045	.04	.045
MOJAVE	-499.82	.045	.04	.045
MOJAVE	-558.26	.045	.04	.045
MOJAVE	-628.84	.045	.04	.045
MOJAVE	-786.82	.045	.04	.045
MOJAVE	-1003.92	.045	.04	.045
MOJAVE	-1259.11	.045	.04	.045
MOJAVE	-1504.11	.045	.04	.045
MOJAVE	-1759.33	.045	.04	.045
MOJAVE	-2039.63	.045	.04	.045
MOJAVE	-2275.69	.045	.04	.045
MOJAVE	-2419.17	.045	.04	.045
MOJAVE	-2581.62	.045	.04	.045
MOJAVE	-2820.45	.045	.04	.045
MOJAVE	-3038.99	.045	.04	.045
MOJAVE	-3287.31	.045	.04	.045
MOJAVE	-3669.8	.045	.04	.045
MOJAVE	-3946.09	.045	.04	.045
MOJAVE	-4152.74	.045	.04	.045

MOJAVE	-4256.56	.045	.04	.045
MOJAVE	-4380.27	.045	.04	.045
MOJAVE	-4681.72	.045	.04	.045
MOJAVE	-4925.75	.045	.04	.045
MOJAVE	-5101.78	.045	.04	.045
MOJAVE	-5295.07	.045	.04	.045
MOJAVE	-5445.72	.045	.04	.045
MOJAVE	-5564.13	.045	.04	.045
MOJAVE	-5696.76	.045	.04	.045
MOJAVE	-5933.19	.045	.04	.045
MOJAVE	-6116.28	.045	.04	.045
MOJAVE	-6217.78	.045	.04	.045
MOJAVE	-6311.68	.045	.04	.045
MOJAVE	-6519.34	.045	.04	.045
MOJAVE	-6686.49	.045	.04	.045
MOJAVE	-6790.76	.045	.04	.045
MOJAVE	-6938.02	.045	.04	.045
MOJAVE	-6985.71	.045	.04	.045
MOJAVE	-7036.34	.045	.04	.045
MOJAVE	-7098.32	.045	.04	.045
MOJAVE	-7216.78	.045	.04	.045
MOJAVE	-7431.74	.045	.04	.045
MOJAVE	-7656.58	.045	.04	.045
MOJAVE	-7809.4	.045	.04	.045
MOJAVE	-7911.62	.045	.04	.045
MOJAVE	-7996.33	.045	.04	.045
MOJAVE	-8115.89	.045	.04	.045
MOJAVE	-8218.22	.045	.04	.045
MOJAVE	-8398.01	.045	.04	.045
MOJAVE	-8496.64	.045	.04	.045
MOJAVE	-8658.18	.045	.04	.045
MOJAVE	-8879.7	.045	.04	.045
MOJAVE	-9014.61	.045	.04	.045
MOJAVE	-9126.4	.045	.04	.045
MOJAVE	-9247.95	.045	.04	.045
MOJAVE	-9364.46	.045	.04	.045
MOJAVE	-9486.35	.045	.04	.045
MOJAVE	-9585.89	.045	.04	.045
MOJAVE	-9747.05	.045	.04	.045
MOJAVE	-9878.94	.045	.04	.045
MOJAVE	-9989.82	.045	.04	.045
MOJAVE	-10154.2	.045	.04	.045
MOJAVE	-10316.4	.045	.04	.045
MOJAVE	-10465.2	.045	.04	.045
MOJAVE	-10622.3	.045	.04	.045
MOJAVE	-10853.5	.045	.04	.045
MOJAVE	-11032.1	.045	.04	.045
MOJAVE	-11260.2	.045	.04	.045
MOJAVE	-11487.1	.045	.04	.045
MOJAVE	-11657.9	.045	.04	.045
MOJAVE	-12013.5	.045	.04	.045
MOJAVE	-12299.9	.045	.04	.045
MOJAVE	-12543.0	.045	.04	.045
MOJAVE	-12628.8	.045	.04	.045
MOJAVE	-12868.0	.045	.04	.045
MOJAVE	-13159.9	.045	.04	.045
MOJAVE	-13489.0	.045	.04	.045
MOJAVE	-13690.7	.045	.04	.045
MOJAVE	-13883.7	.045	.04	.045
MOJAVE	-14058.6	.045	.04	.045
MOJAVE	-14197.0	.045	.04	.045
MOJAVE	-14448.4	.045	.04	.045
MOJAVE	-14619.3	.045	.04	.045
MOJAVE	-14900.4	.045	.04	.045
MOJAVE	-15108.7	.045	.04	.045
MOJAVE	-15208.8	.045	.04	.045
MOJAVE	-15343.3	.045	.04	.045
MOJAVE	-15473.7	.045	.04	.045
MOJAVE	-15543.5	.045	.04	.045
MOJAVE	-15641.3	.045	.04	.045
MOJAVE	-15724.2	.045	.04	.045
MOJAVE	-15792.7	.045	.04	.045
MOJAVE	-15882.6	.045	.04	.045
MOJAVE	-15987.4	.045	.04	.045
MOJAVE	-16062.3	.045	.04	.045
MOJAVE	-16159.7	.045	.04	.045
MOJAVE	-16237.9	.045	.04	.045
MOJAVE	-16297.8	.045	.04	.045
MOJAVE	-16386.0	.045	.04	.045
MOJAVE	-16490.0	.045	.04	.045
MOJAVE	-16635.8	.045	.04	.045
MOJAVE	-16830.6	.045	.04	.045
MOJAVE	-16991.6	.045	.04	.045
MOJAVE	-17147.9	.045	.04	.045
MOJAVE	-17326.1	.045	.04	.045
MOJAVE	-17442.2	.045	.04	.045
MOJAVE	-17526.8	.045	.04	.045
MOJAVE	-17666.2	.045	.04	.045

MOJAVE	-17764.6	.045	.04	.045
MOJAVE	-17875.5	.045	.04	.045
MOJAVE	-17913.4	.045	.04	.045
MOJAVE	-17982.7	.045	.04	.045
MOJAVE	-18087.4	.045	.04	.045
MOJAVE	-18260.2	.045	.04	.045
MOJAVE	-18357.1	.045	.04	.045
MOJAVE	-18445.0	.045	.04	.045
MOJAVE	-18538.7	.045	.04	.045
MOJAVE	-18694.0	.045	.04	.045
MOJAVE	-18843.3	.045	.04	.045
MOJAVE	-19001.7	.045	.04	.045
MOJAVE	-19204.9	.045	.04	.045
MOJAVE	-19378.1	.045	.04	.045
MOJAVE	-19589.1	.045	.04	.045
MOJAVE	-19745.3	.045	.04	.045
MOJAVE	-19898.9	.045	.04	.045

SUMMARY OF REACH LENGTHS

River: MOJAVE

Reach	River Sta.	Left	Channel	Right
MOJAVE	-0	102.64	102.64	102.64
MOJAVE	-102.64	111.21	111.21	111.21
MOJAVE	-213.85	90.5	90.5	90.5
MOJAVE	-304.35	85.16	85.16	85.16
MOJAVE	-389.51	110.31	110.31	110.31
MOJAVE	-499.82	58.44	58.44	58.44
MOJAVE	-558.26	70.58	70.58	70.58
MOJAVE	-628.84	157.98	157.98	157.98
MOJAVE	-786.82	217.1	217.1	217.1
MOJAVE	-1003.92	255.19	255.19	255.19
MOJAVE	-1259.11	245	245	245
MOJAVE	-1504.11	255.22	255.22	255.22
MOJAVE	-1759.33	280.3	280.3	280.3
MOJAVE	-2039.63	236.06	236.06	236.06
MOJAVE	-2275.69	143.48	143.48	143.48
MOJAVE	-2419.17	162.45	162.45	162.45
MOJAVE	-2581.62	238.83	238.83	238.83
MOJAVE	-2820.45	218.54	218.54	218.54
MOJAVE	-3038.99	248.32	248.32	248.32
MOJAVE	-3287.31	382.49	382.49	382.49
MOJAVE	-3669.8	276.29	276.29	276.29
MOJAVE	-3946.09	206.65	206.65	206.65
MOJAVE	-4152.74	103.82	103.82	103.82
MOJAVE	-4256.56	123.71	123.71	123.71
MOJAVE	-4380.27	301.45	301.45	301.45
MOJAVE	-4681.72	244.03	244.03	244.03
MOJAVE	-4925.75	176.03	176.03	176.03
MOJAVE	-5101.78	193.29	193.29	193.29
MOJAVE	-5295.07	150.65	150.65	150.65
MOJAVE	-5445.72	118.41	118.41	118.41
MOJAVE	-5564.13	132.63	132.63	132.63
MOJAVE	-5696.76	236.43	236.43	236.43
MOJAVE	-5933.19	183.09	183.09	183.09
MOJAVE	-6116.28	101.5	101.5	101.5
MOJAVE	-6217.78	93.9	93.9	93.9
MOJAVE	-6311.68	207.66	207.66	207.66
MOJAVE	-6519.34	167.15	167.15	167.15
MOJAVE	-6686.49	104.27	104.27	104.27
MOJAVE	-6790.76	147.26	147.26	147.26
MOJAVE	-6938.02	47.69	47.69	47.69
MOJAVE	-6985.71	50.63	50.63	50.63
MOJAVE	-7036.34	61.98	61.98	61.98
MOJAVE	-7098.32	118.46	118.46	118.46
MOJAVE	-7216.78	214.96	214.96	214.96
MOJAVE	-7431.74	224.84	224.84	224.84
MOJAVE	-7656.58	152.82	152.82	152.82
MOJAVE	-7809.4	102.22	102.22	102.22
MOJAVE	-7911.62	84.71	84.71	84.71
MOJAVE	-7996.33	119.56	119.56	119.56
MOJAVE	-8115.89	102.33	102.33	102.33
MOJAVE	-8218.22	179.79	179.79	179.79
MOJAVE	-8398.01	98.63	98.63	98.63
MOJAVE	-8496.64	161.54	161.54	161.54
MOJAVE	-8658.18	221.52	221.52	221.52
MOJAVE	-8879.7	134.91	134.91	134.91
MOJAVE	-9014.61	111.79	111.79	111.79
MOJAVE	-9126.4	121.55	121.55	121.55
MOJAVE	-9247.95	116.51	116.51	116.51
MOJAVE	-9364.46	121.89	121.89	121.89
MOJAVE	-9486.35	99.54	99.54	99.54
MOJAVE	-9585.89	161.16	161.16	161.16

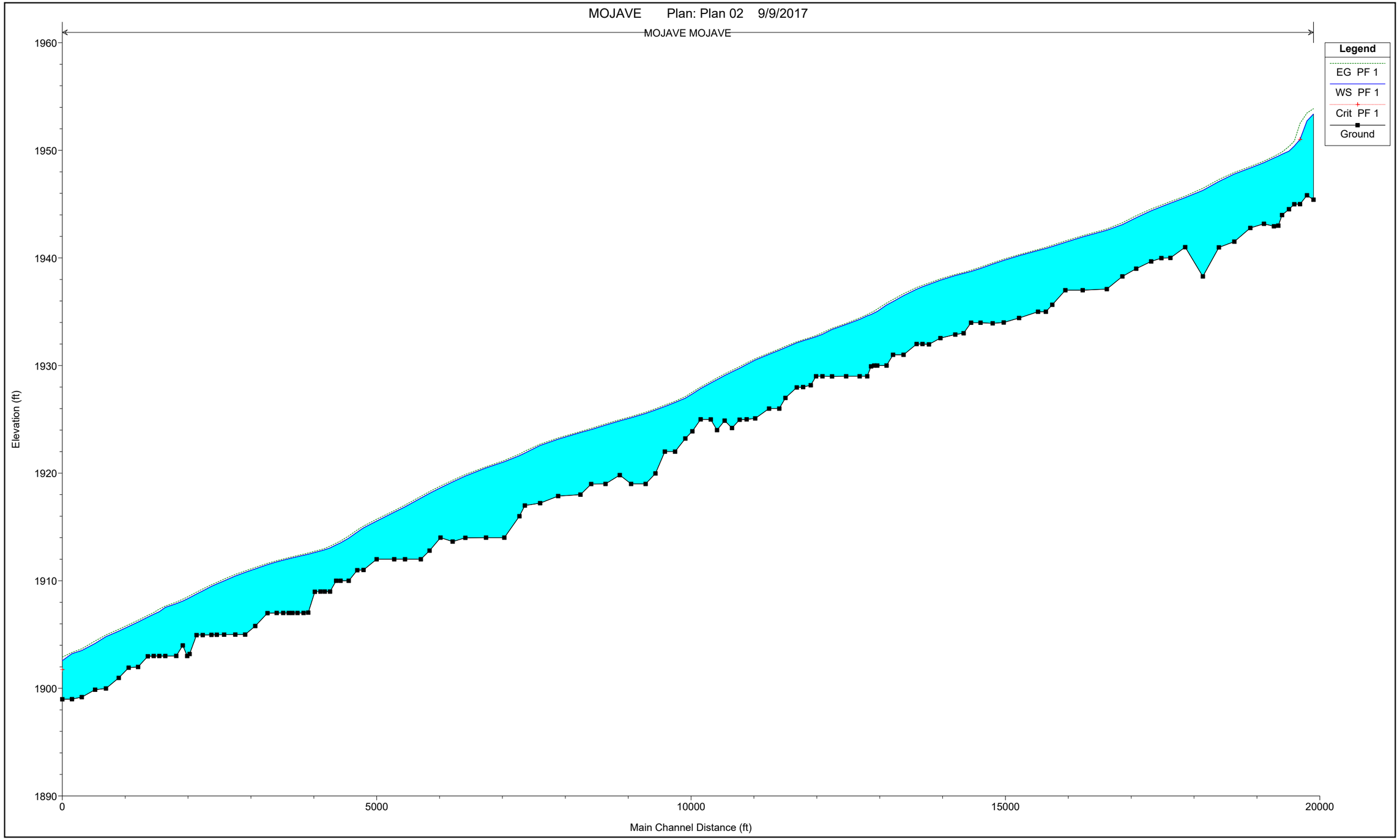
MOJAVE	-9747.05	131.89	131.89	131.89
MOJAVE	-9878.94	110.88	110.88	110.88
MOJAVE	-9989.82	164.39	164.39	164.39
MOJAVE	-10154.2	162.2	162.2	162.2
MOJAVE	-10316.4	148.82	148.82	148.82
MOJAVE	-10465.2	157.11	157.11	157.11
MOJAVE	-10622.3	231.16	231.16	231.16
MOJAVE	-10853.5	178.64	178.64	178.64
MOJAVE	-11032.1	228.13	228.13	228.13
MOJAVE	-11260.2	226.83	226.83	226.83
MOJAVE	-11487.1	170.89	170.89	170.89
MOJAVE	-11657.9	355.58	355.58	355.58
MOJAVE	-12013.5	286.4	286.4	286.4
MOJAVE	-12299.9	243.05	243.05	243.05
MOJAVE	-12543.0	85.86	85.86	85.86
MOJAVE	-12628.8	239.2	239.2	239.2
MOJAVE	-12868.0	291.82	291.82	291.82
MOJAVE	-13159.9	329.18	329.18	329.18
MOJAVE	-13489.0	201.71	201.71	201.71
MOJAVE	-13690.7	192.98	192.98	192.98
MOJAVE	-13883.7	174.9	174.9	174.9
MOJAVE	-14058.6	138.34	138.34	138.34
MOJAVE	-14197.0	251.45	251.45	251.45
MOJAVE	-14448.4	170.92	170.92	170.92
MOJAVE	-14619.3	281.06	281.06	281.06
MOJAVE	-14900.4	208.31	208.31	208.31
MOJAVE	-15108.7	100.05	100.05	100.05
MOJAVE	-15208.8	134.51	134.51	134.51
MOJAVE	-15343.3	130.44	130.44	130.44
MOJAVE	-15473.7	69.83	69.83	69.83
MOJAVE	-15543.5	97.76	97.76	97.76
MOJAVE	-15641.3	82.86	82.86	82.86
MOJAVE	-15724.2	68.5	68.5	68.5
MOJAVE	-15792.7	89.96	89.96	89.96
MOJAVE	-15882.6	104.77	104.77	104.77
MOJAVE	-15987.4	74.87	74.87	74.87
MOJAVE	-16062.3	97.47	97.47	97.47
MOJAVE	-16159.7	78.15	78.15	78.15
MOJAVE	-16237.9	59.93	59.93	59.93
MOJAVE	-16297.8	88.24	88.24	88.24
MOJAVE	-16386.0	103.96	103.96	103.96
MOJAVE	-16490.0	145.78	145.78	145.78
MOJAVE	-16635.8	194.81	194.81	194.81
MOJAVE	-16830.6	160.97	160.97	160.97
MOJAVE	-16991.6	156.29	156.29	156.29
MOJAVE	-17147.9	178.24	178.24	178.24
MOJAVE	-17326.1	116.07	116.07	116.07
MOJAVE	-17442.2	84.68	84.68	84.68
MOJAVE	-17526.8	139.39	139.39	139.39
MOJAVE	-17666.2	98.38	98.38	98.38
MOJAVE	-17764.6	110.89	110.89	110.89
MOJAVE	-17875.5	37.92	37.92	37.92
MOJAVE	-17913.4	69.26	69.26	69.26
MOJAVE	-17982.7	104.69	104.69	104.69
MOJAVE	-18087.4	172.85	172.85	172.85
MOJAVE	-18260.2	96.87	96.87	96.87
MOJAVE	-18357.1	87.88	87.88	87.88
MOJAVE	-18445.0	93.71	93.71	93.71
MOJAVE	-18538.7	155.33	155.33	155.33
MOJAVE	-18694.0	149.26	149.26	149.26
MOJAVE	-18843.3	158.46	158.46	158.46
MOJAVE	-19001.7	203.21	203.21	203.21
MOJAVE	-19204.9	173.2	173.2	173.2
MOJAVE	-19378.1	210.95	210.95	210.95
MOJAVE	-19589.1	156.22	156.22	156.22
MOJAVE	-19745.3	153.58	153.58	153.58
MOJAVE	-19898.9			

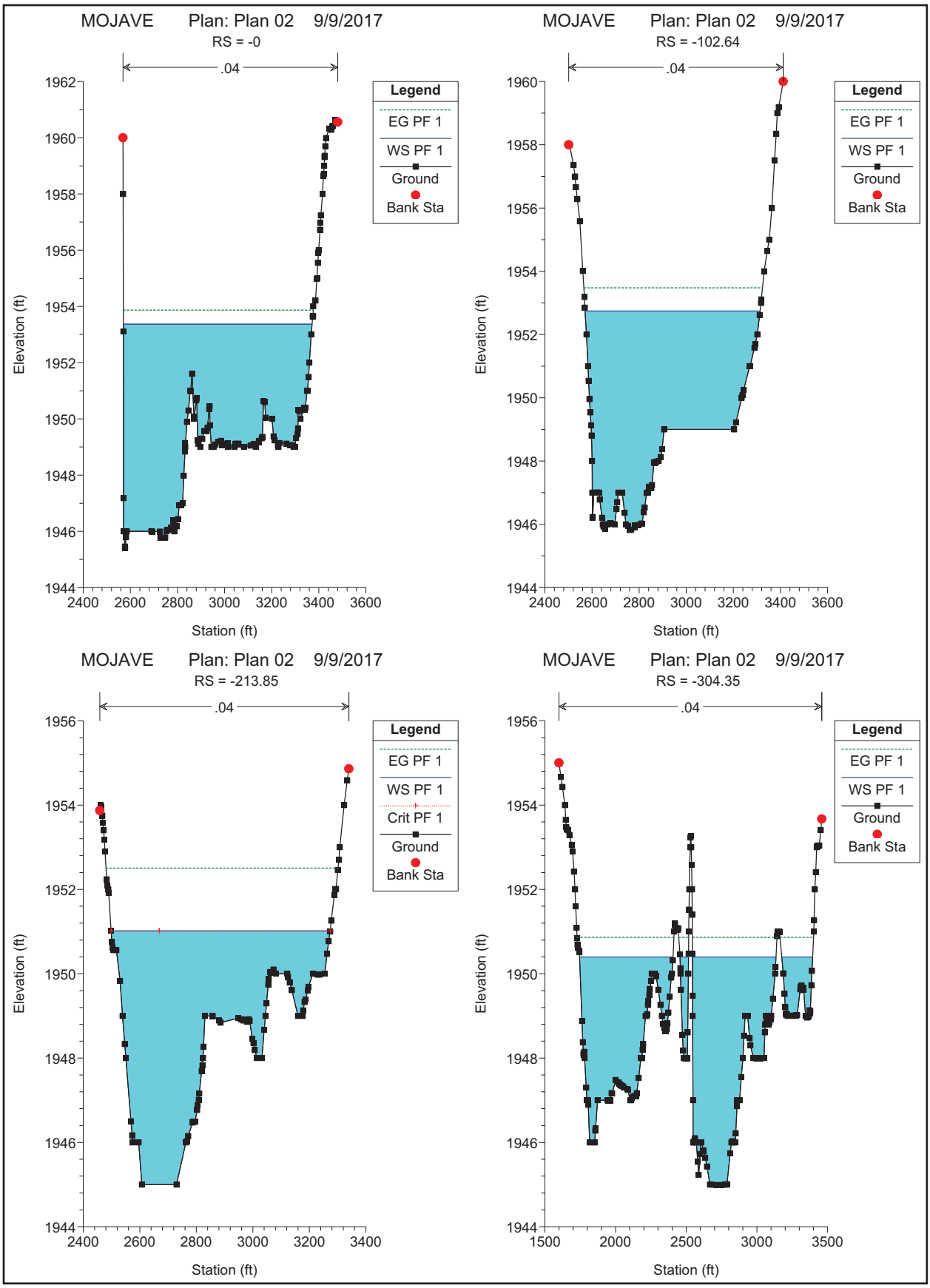
SUMMARY OF CONTRACTION AND EXPANSION COEFFICIENTS
River: MOJAVE

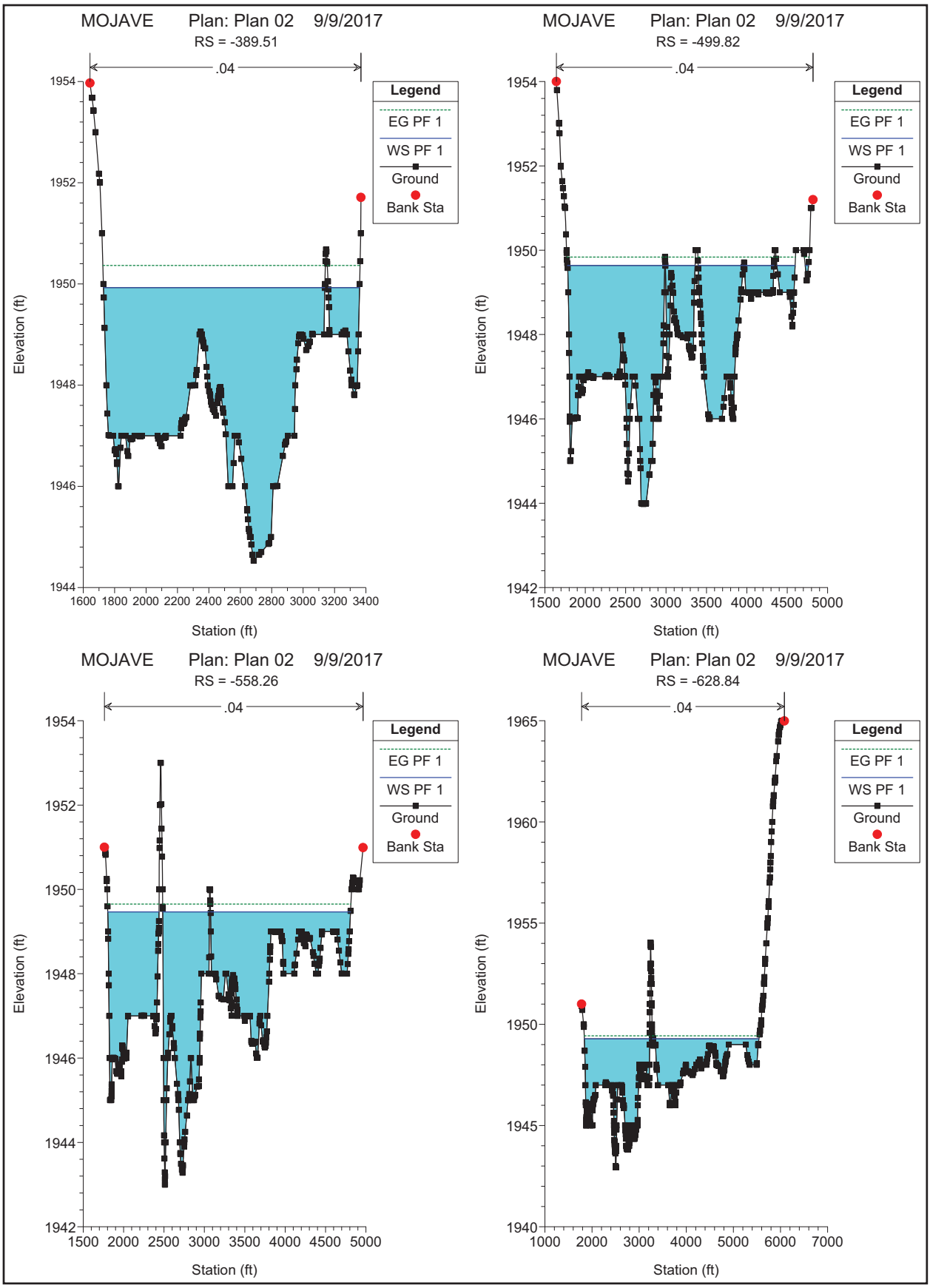
Reach	River Sta.	Contr.	Expan.
MOJAVE	-0	.1	.3
MOJAVE	-102.64	.1	.3
MOJAVE	-213.85	.1	.3
MOJAVE	-304.35	.1	.3
MOJAVE	-389.51	.1	.3
MOJAVE	-499.82	.1	.3
MOJAVE	-558.26	.1	.3
MOJAVE	-628.84	.1	.3
MOJAVE	-786.82	.1	.3
MOJAVE	-1003.92	.1	.3
MOJAVE	-1259.11	.1	.3

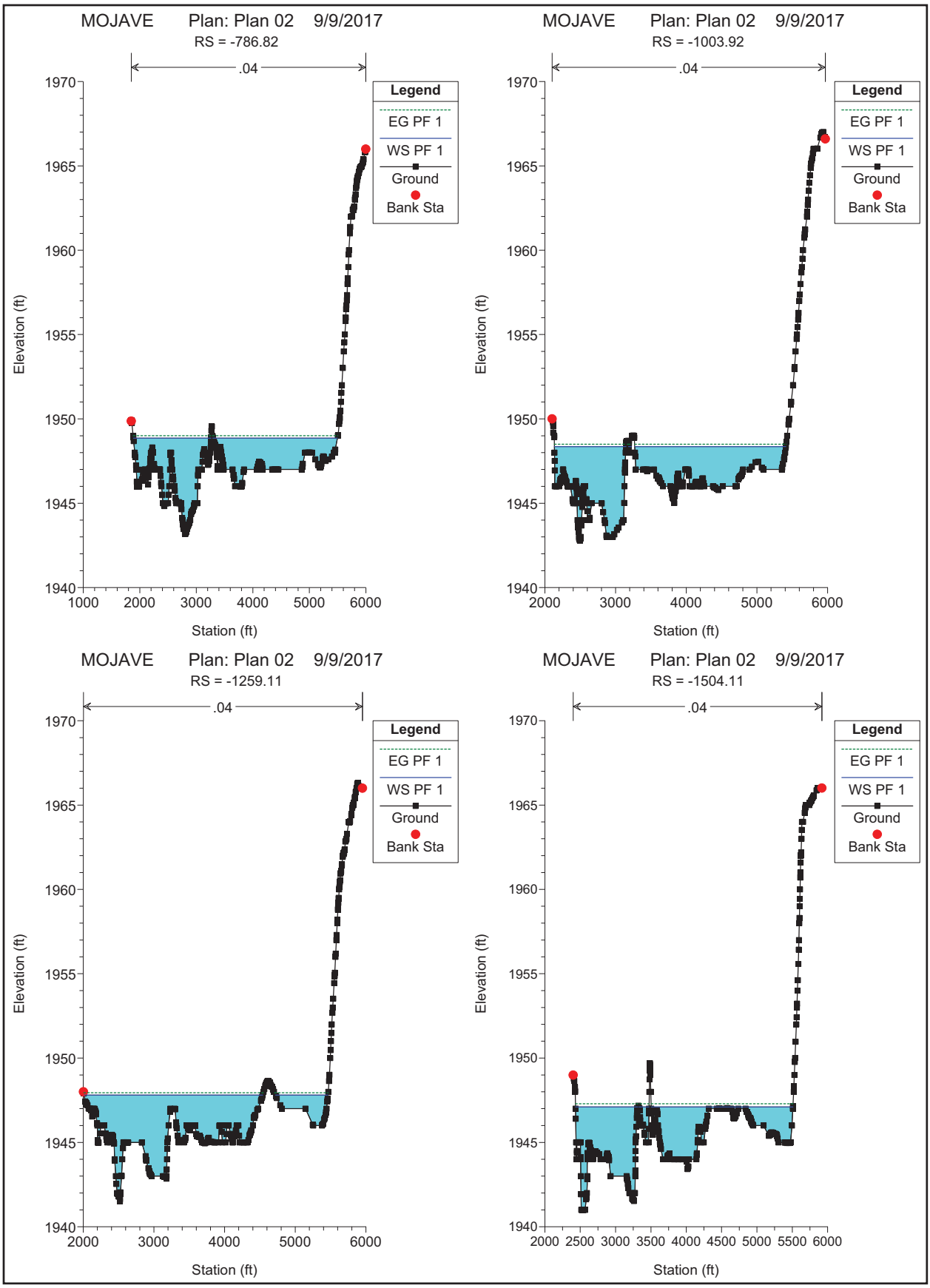
MOJAVE	-1504.11	.1	.3
MOJAVE	-1759.33	.1	.3
MOJAVE	-2039.63	.1	.3
MOJAVE	-2275.69	.1	.3
MOJAVE	-2419.17	.1	.3
MOJAVE	-2581.62	.1	.3
MOJAVE	-2820.45	.1	.3
MOJAVE	-3038.99	.1	.3
MOJAVE	-3287.31	.1	.3
MOJAVE	-3669.8	.1	.3
MOJAVE	-3946.09	.1	.3
MOJAVE	-4152.74	.1	.3
MOJAVE	-4256.56	.1	.3
MOJAVE	-4380.27	.1	.3
MOJAVE	-4681.72	.1	.3
MOJAVE	-4925.75	.1	.3
MOJAVE	-5101.78	.1	.3
MOJAVE	-5295.07	.1	.3
MOJAVE	-5445.72	.1	.3
MOJAVE	-5564.13	.1	.3
MOJAVE	-5696.76	.1	.3
MOJAVE	-5933.19	.1	.3
MOJAVE	-6116.28	.1	.3
MOJAVE	-6217.78	.1	.3
MOJAVE	-6311.68	.1	.3
MOJAVE	-6519.34	.1	.3
MOJAVE	-6686.49	.1	.3
MOJAVE	-6790.76	.1	.3
MOJAVE	-6938.02	.1	.3
MOJAVE	-6985.71	.1	.3
MOJAVE	-7036.34	.1	.3
MOJAVE	-7098.32	.1	.3
MOJAVE	-7216.78	.1	.3
MOJAVE	-7431.74	.1	.3
MOJAVE	-7656.58	.1	.3
MOJAVE	-7809.4	.1	.3
MOJAVE	-7911.62	.1	.3
MOJAVE	-7996.33	.1	.3
MOJAVE	-8115.89	.1	.3
MOJAVE	-8218.22	.1	.3
MOJAVE	-8398.01	.1	.3
MOJAVE	-8496.64	.1	.3
MOJAVE	-8658.18	.1	.3
MOJAVE	-8879.7	.1	.3
MOJAVE	-9014.61	.1	.3
MOJAVE	-9126.4	.1	.3
MOJAVE	-9247.95	.1	.3
MOJAVE	-9364.46	.1	.3
MOJAVE	-9486.35	.1	.3
MOJAVE	-9585.89	.1	.3
MOJAVE	-9747.05	.1	.3
MOJAVE	-9878.94	.1	.3
MOJAVE	-9989.82	.1	.3
MOJAVE	-10154.2	.1	.3
MOJAVE	-10316.4	.1	.3
MOJAVE	-10465.2	.1	.3
MOJAVE	-10622.3	.1	.3
MOJAVE	-10853.5	.1	.3
MOJAVE	-11032.1	.1	.3
MOJAVE	-11260.2	.1	.3
MOJAVE	-11487.1	.1	.3
MOJAVE	-11657.9	.1	.3
MOJAVE	-12013.5	.1	.3
MOJAVE	-12299.9	.1	.3
MOJAVE	-12543.0	.1	.3
MOJAVE	-12628.8	.1	.3
MOJAVE	-12868.0	.1	.3
MOJAVE	-13159.9	.1	.3
MOJAVE	-13489.0	.1	.3
MOJAVE	-13690.7	.1	.3
MOJAVE	-13883.7	.1	.3
MOJAVE	-14058.6	.1	.3
MOJAVE	-14197.0	.1	.3
MOJAVE	-14448.4	.1	.3
MOJAVE	-14619.3	.1	.3
MOJAVE	-14900.4	.1	.3
MOJAVE	-15108.7	.1	.3
MOJAVE	-15208.8	.1	.3
MOJAVE	-15343.3	.1	.3
MOJAVE	-15473.7	.1	.3
MOJAVE	-15543.5	.1	.3
MOJAVE	-15641.3	.1	.3
MOJAVE	-15724.2	.1	.3
MOJAVE	-15792.7	.1	.3
MOJAVE	-15882.6	.1	.3
MOJAVE	-15987.4	.1	.3
MOJAVE	-16062.3	.1	.3
MOJAVE	-16159.7	.1	.3

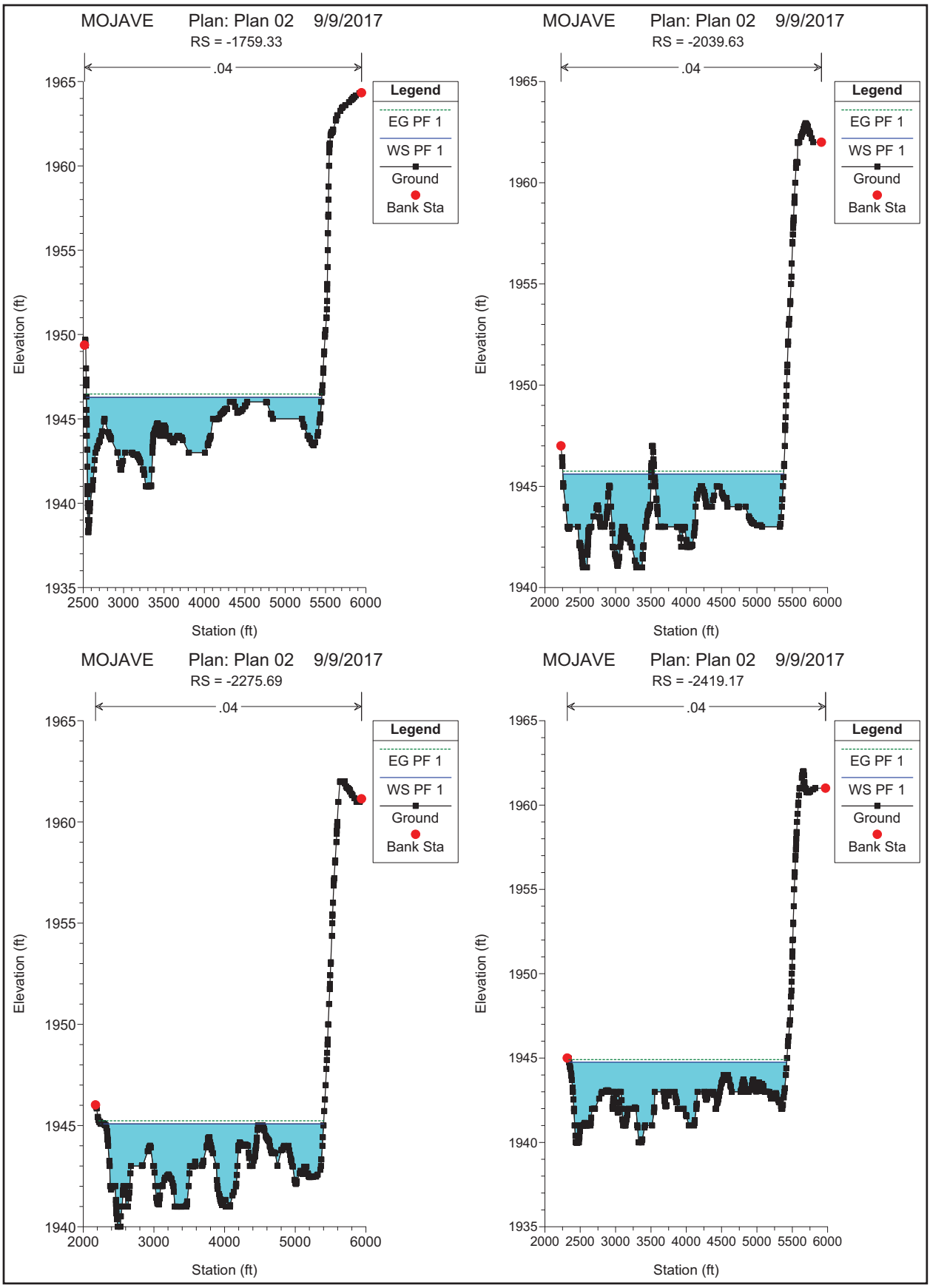
MOJAVE	-16237.9	.1	.3
MOJAVE	-16297.8	.1	.3
MOJAVE	-16386.0	.1	.3
MOJAVE	-16490.0	.1	.3
MOJAVE	-16635.8	.1	.3
MOJAVE	-16830.6	.1	.3
MOJAVE	-16991.6	.1	.3
MOJAVE	-17147.9	.1	.3
MOJAVE	-17326.1	.1	.3
MOJAVE	-17442.2	.1	.3
MOJAVE	-17526.8	.1	.3
MOJAVE	-17666.2	.1	.3
MOJAVE	-17764.6	.1	.3
MOJAVE	-17875.5	.1	.3
MOJAVE	-17913.4	.1	.3
MOJAVE	-17982.7	.1	.3
MOJAVE	-18087.4	.1	.3
MOJAVE	-18260.2	.1	.3
MOJAVE	-18357.1	.1	.3
MOJAVE	-18445.0	.1	.3
MOJAVE	-18538.7	.1	.3
MOJAVE	-18694.0	.1	.3
MOJAVE	-18843.3	.1	.3
MOJAVE	-19001.7	.1	.3
MOJAVE	-19204.9	.1	.3
MOJAVE	-19378.1	.1	.3
MOJAVE	-19589.1	.1	.3
MOJAVE	-19745.3	.1	.3
MOJAVE	-19898.9	.1	.3

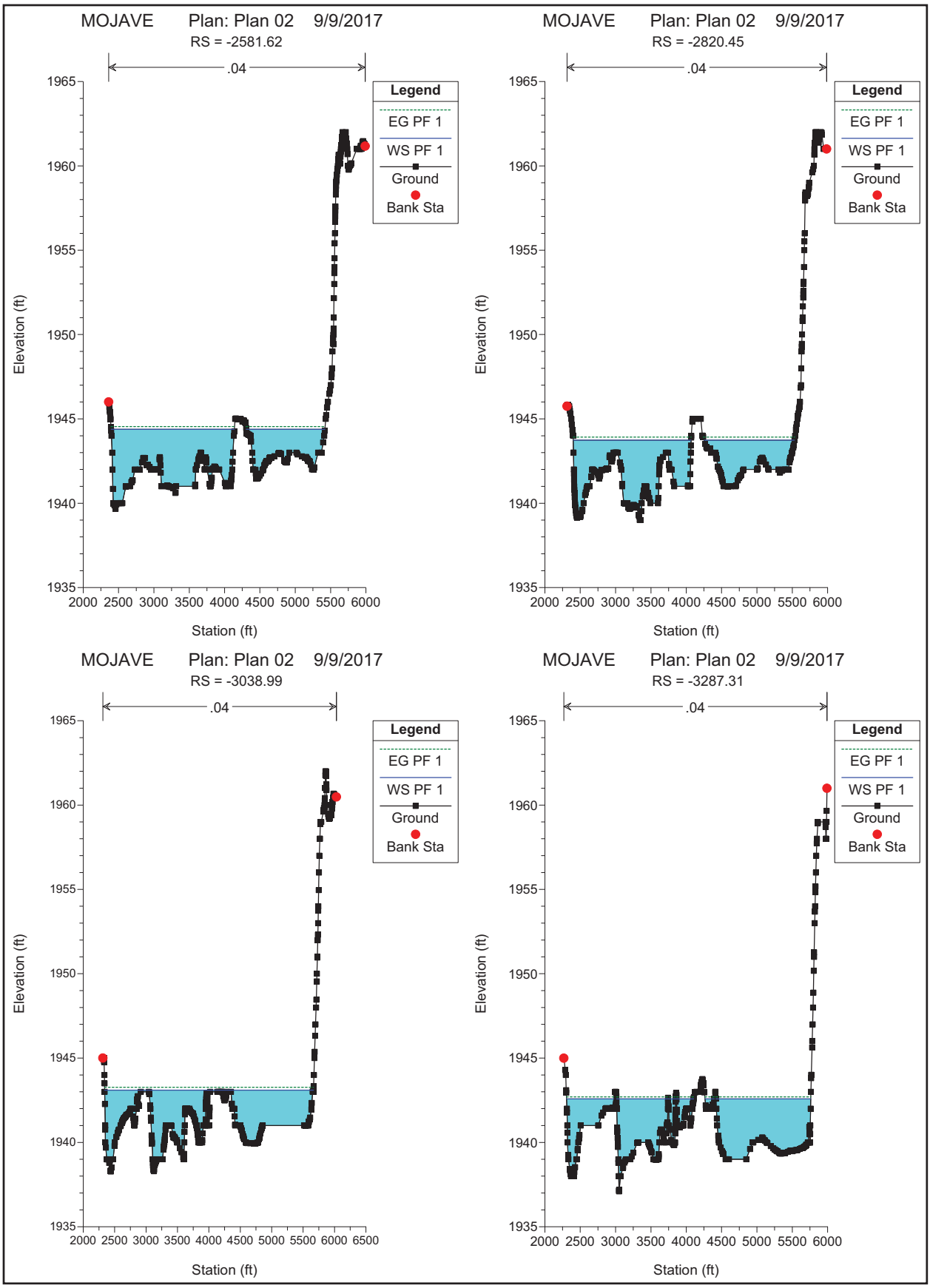

MOJAVE Plan: Plan 02 9/9/2017
MOJAVE MOJAVE
Legend
EG PF 1
WS PF 1
Crit PF 1
Ground
Elevation (ft)
1960
1950
1940
1930
1920
1910
1900
1890
0
5000
10000
15000
20000
Main Channel Distance (ft)

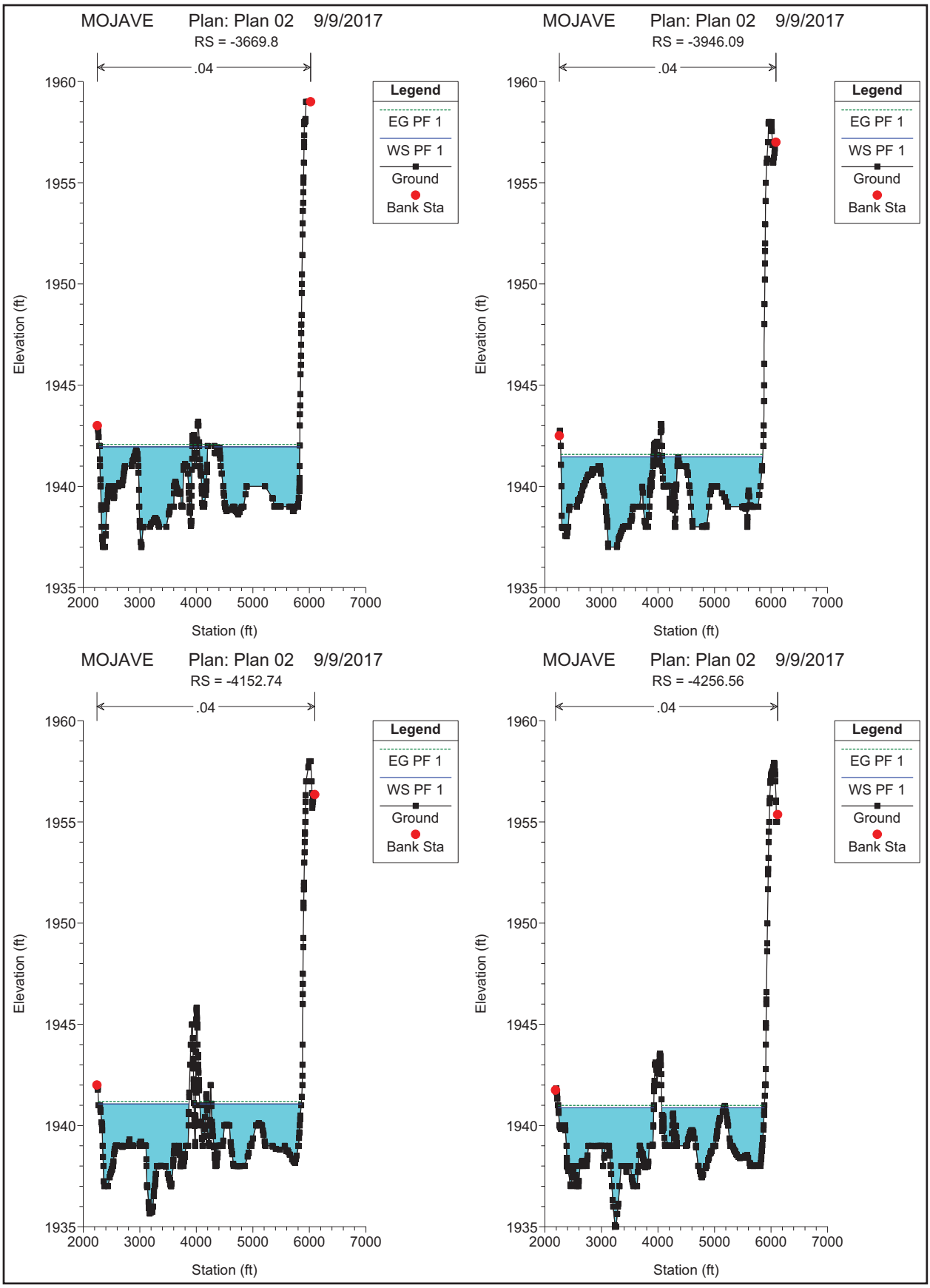

MOJAVE Plan: Plan 02 9/9/2017
RS = -0
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
MOJAVE Plan: Plan 02 9/9/2017
RS = -102.64
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
MOJAVE Plan: Plan 02 9/9/2017
RS = -213.85
.04
Legend
EG PF 1
WS PF 1
Crit PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
MOJAVE Plan: Plan 02 9/9/2017
RS = -304.35
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

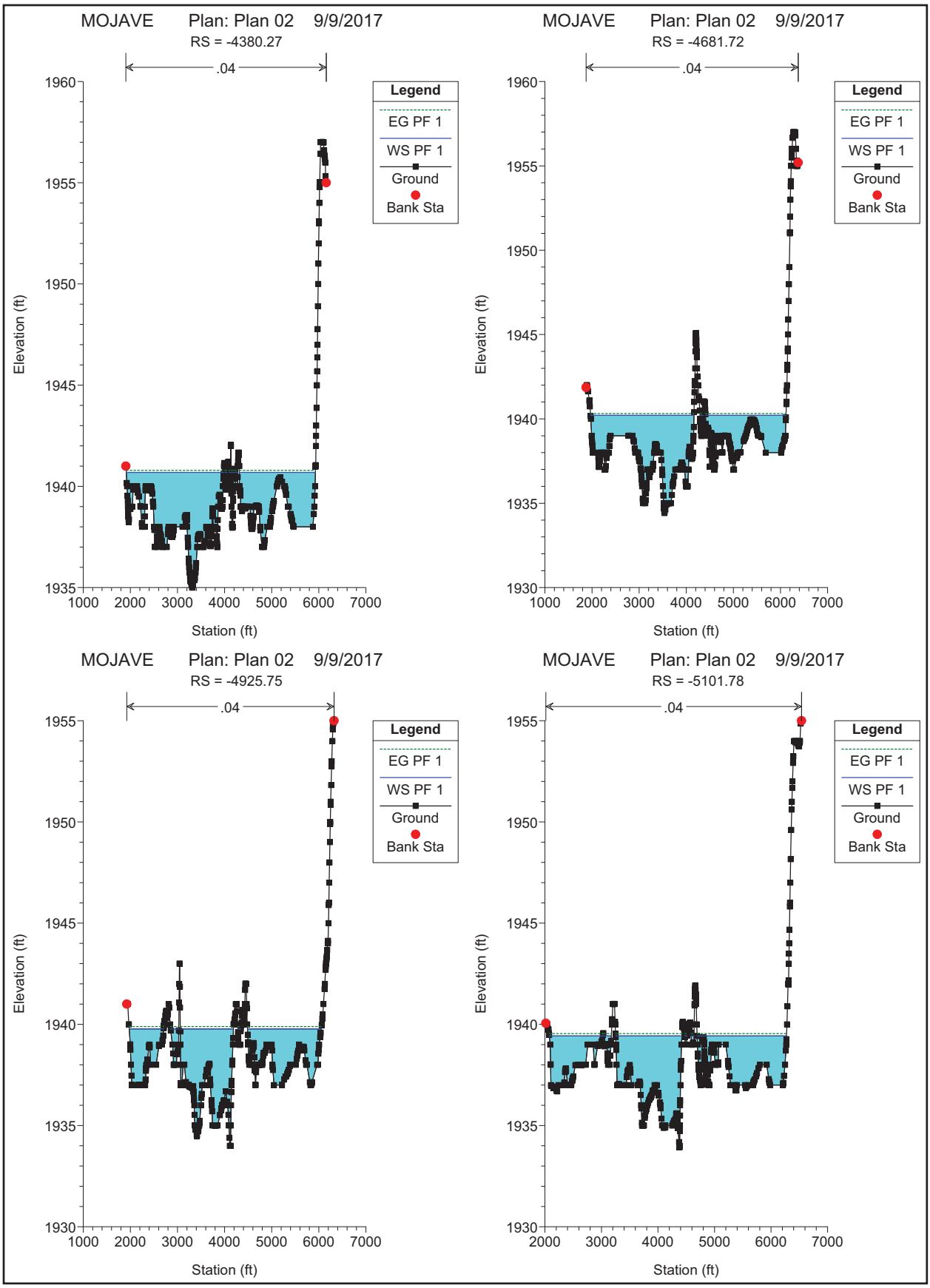

MOJAVE Plan: Plan 02 9/9/2017
RS = -389.51
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
MOJAVE Plan: Plan 02 9/9/2017
RS = -499.82
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
MOJAVE Plan: Plan 02 9/9/2017
RS = -558.26
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
MOJAVE Plan: Plan 02 9/9/2017
RS = -628.84
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

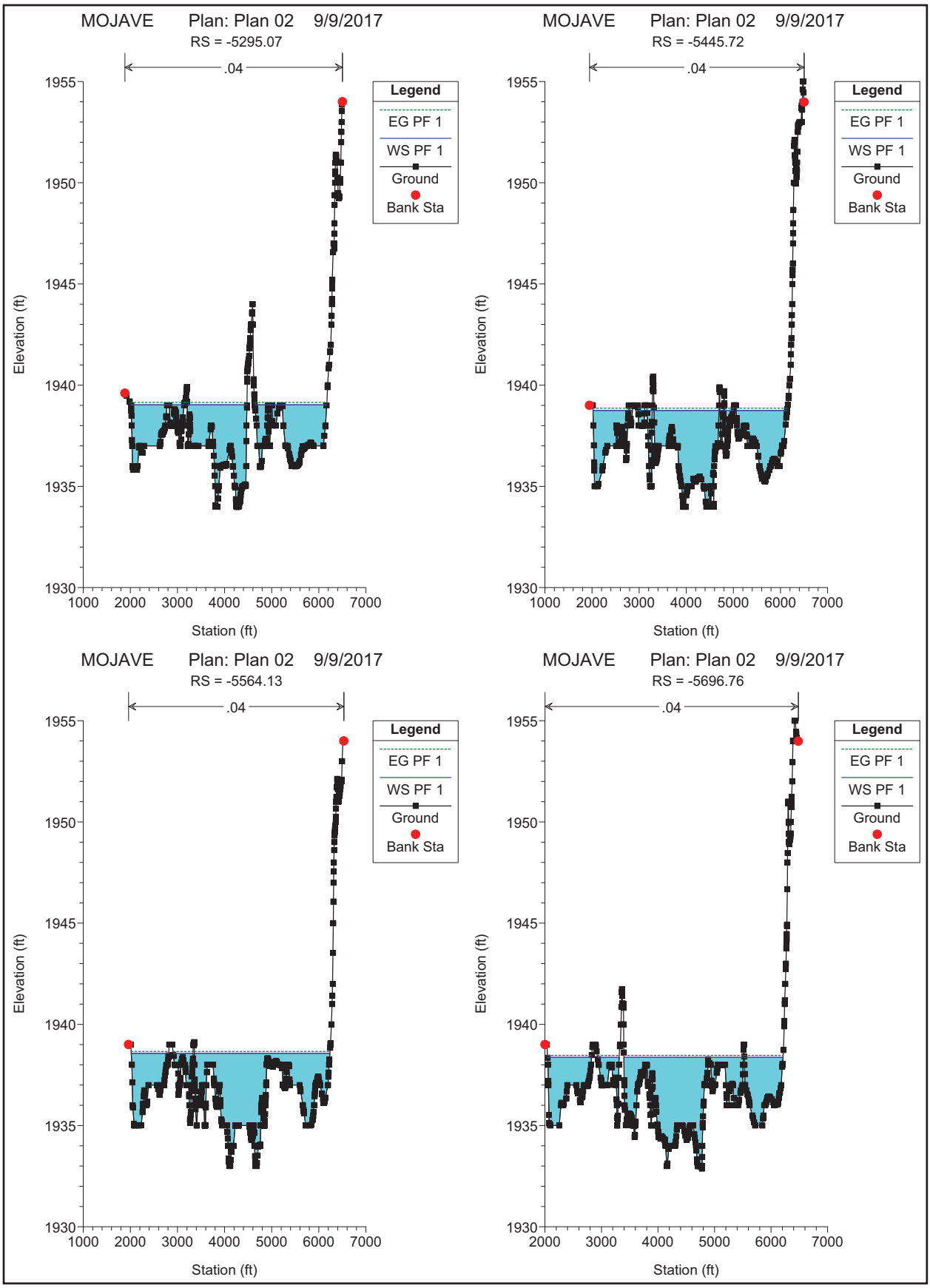

MOJAVE Plan: Plan 02 9/9/2017
RS = -786.82
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
MOJAVE Plan: Plan 02 9/9/2017
RS = -1003.92
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
MOJAVE Plan: Plan 02 9/9/2017
RS = -1259.11
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
MOJAVE Plan: Plan 02 9/9/2017
RS = -1504.11
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

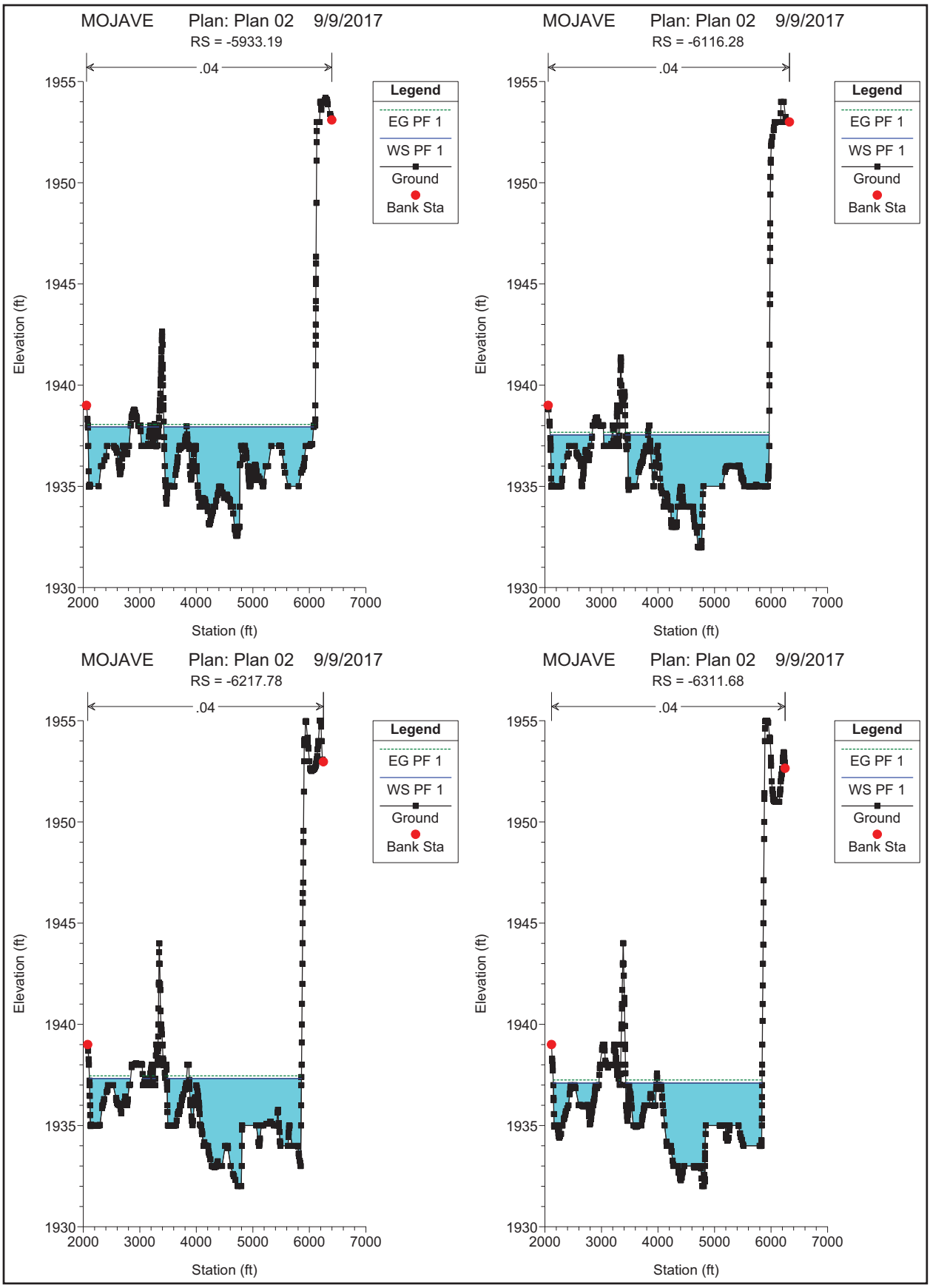

MOJAVE Plan: Plan 02 9/9/2017
RS = -1759.33
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
MOJAVE Plan: Plan 02 9/9/2017
RS = -2039.63
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
MOJAVE Plan: Plan 02 9/9/2017
RS = -2275.69
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
MOJAVE Plan: Plan 02 9/9/2017
RS = -2419.17
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

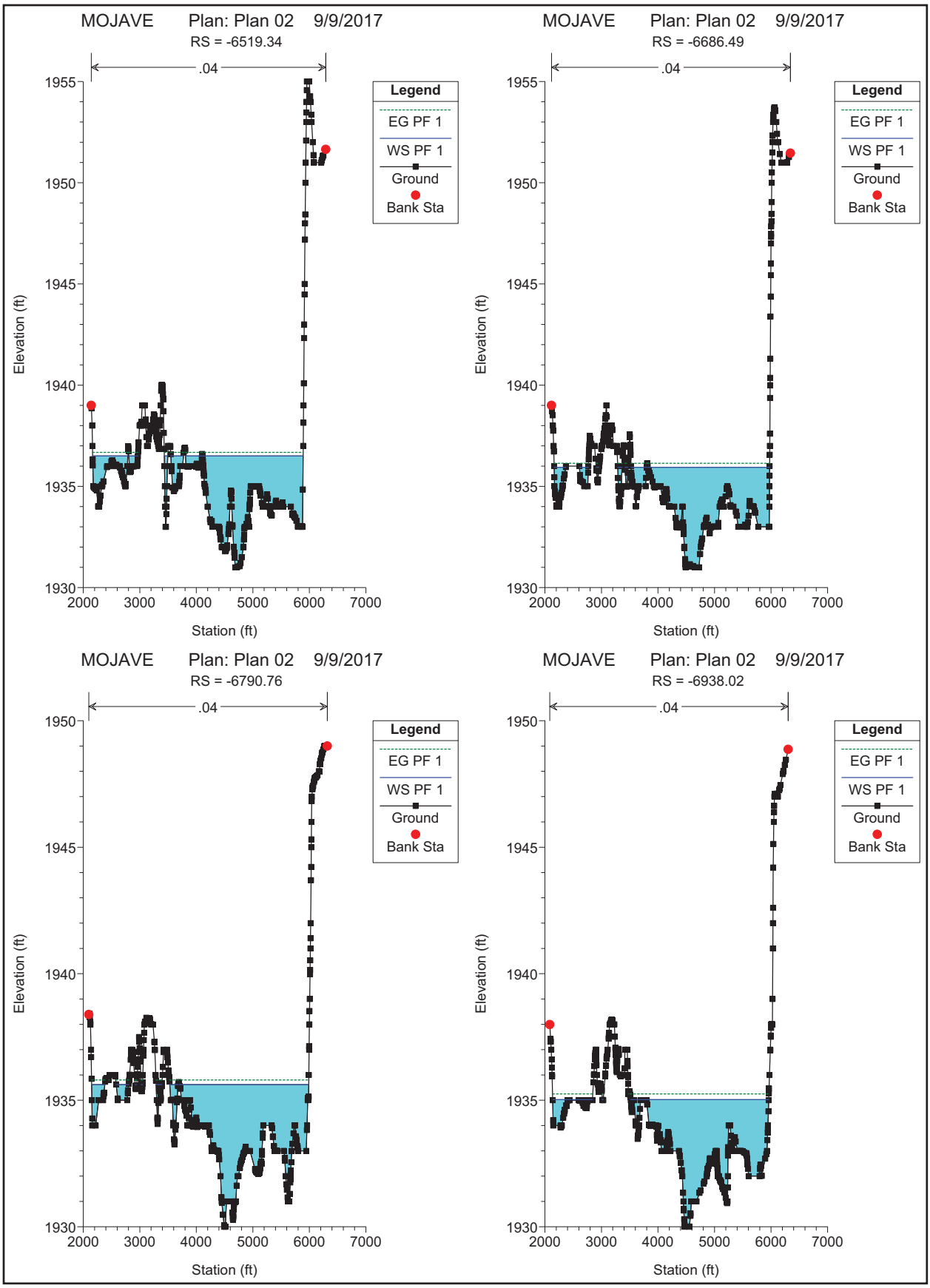

MOJAVE Plan: Plan 02 9/9/2017
RS = -2581.62
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
MOJAVE Plan: Plan 02 9/9/2017
RS = -2820.45
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
MOJAVE Plan: Plan 02 9/9/2017
RS = -3038.99
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
MOJAVE Plan: Plan 02 9/9/2017
RS = -3287.31
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

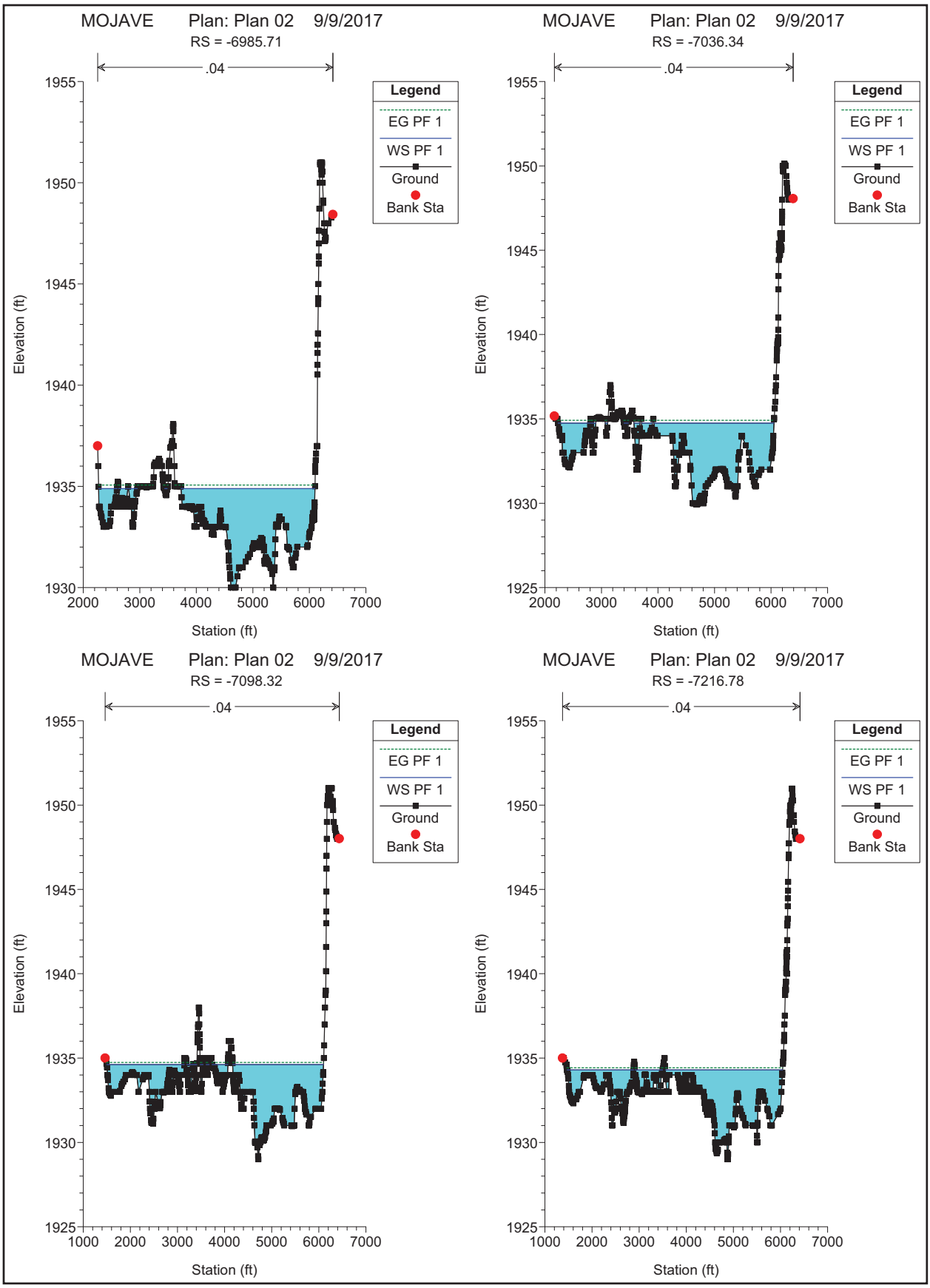

MOJAVE Plan: Plan 02 9/9/2017
RS = -3669.8
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
MOJAVE Plan: Plan 02 9/9/2017
RS = -3946.09
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
MOJAVE Plan: Plan 02 9/9/2017
RS = -4152.74
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
MOJAVE Plan: Plan 02 9/9/2017
RS = -4256.56
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

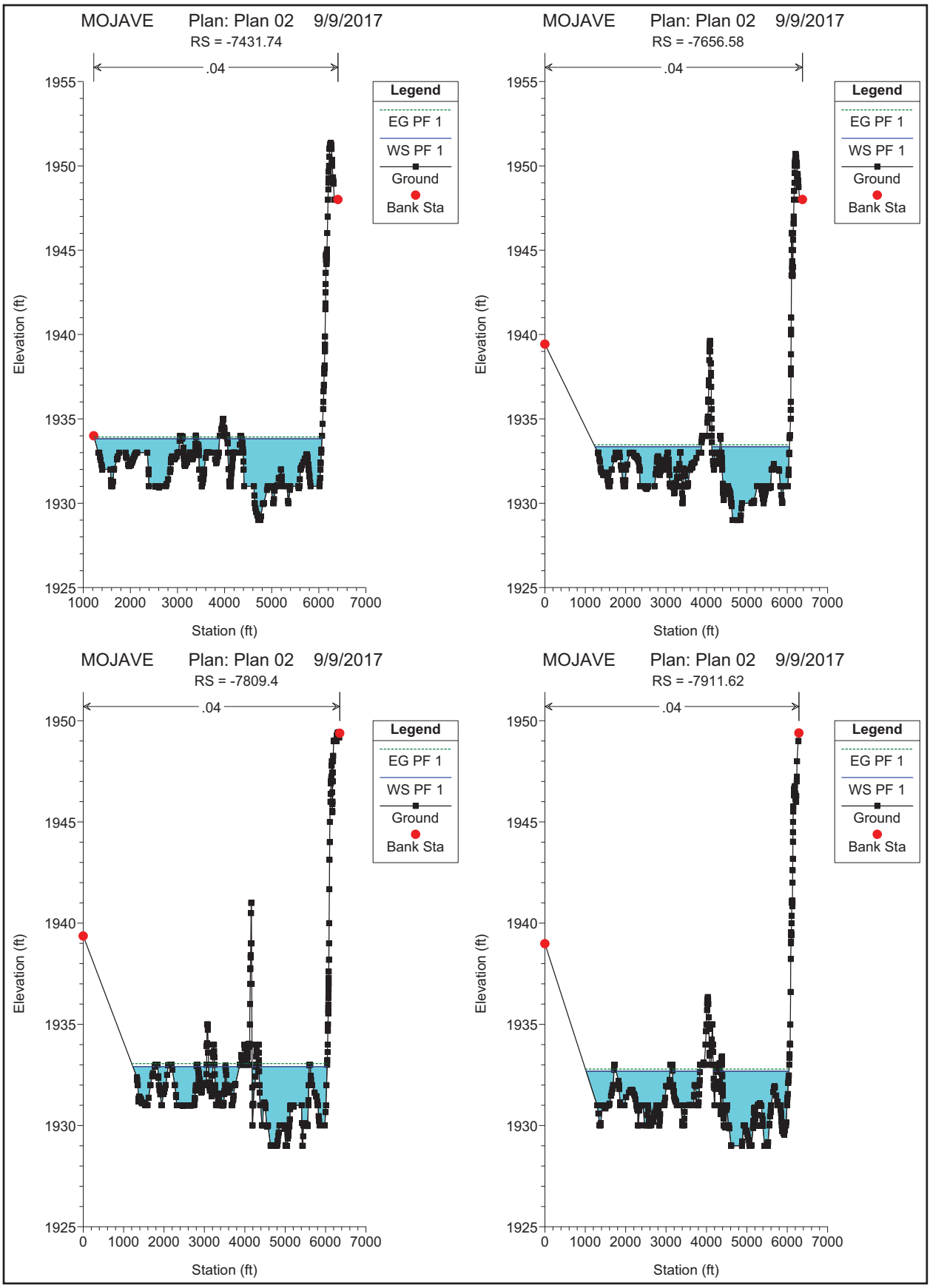

MOJAVE Plan: Plan 02 9/9/2017
RS = -4380.27
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
MOJAVE Plan: Plan 02 9/9/2017
RS = -4681.72
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
MOJAVE Plan: Plan 02 9/9/2017
RS = -4925.75
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
MOJAVE Plan: Plan 02 9/9/2017
RS = -5101.78
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

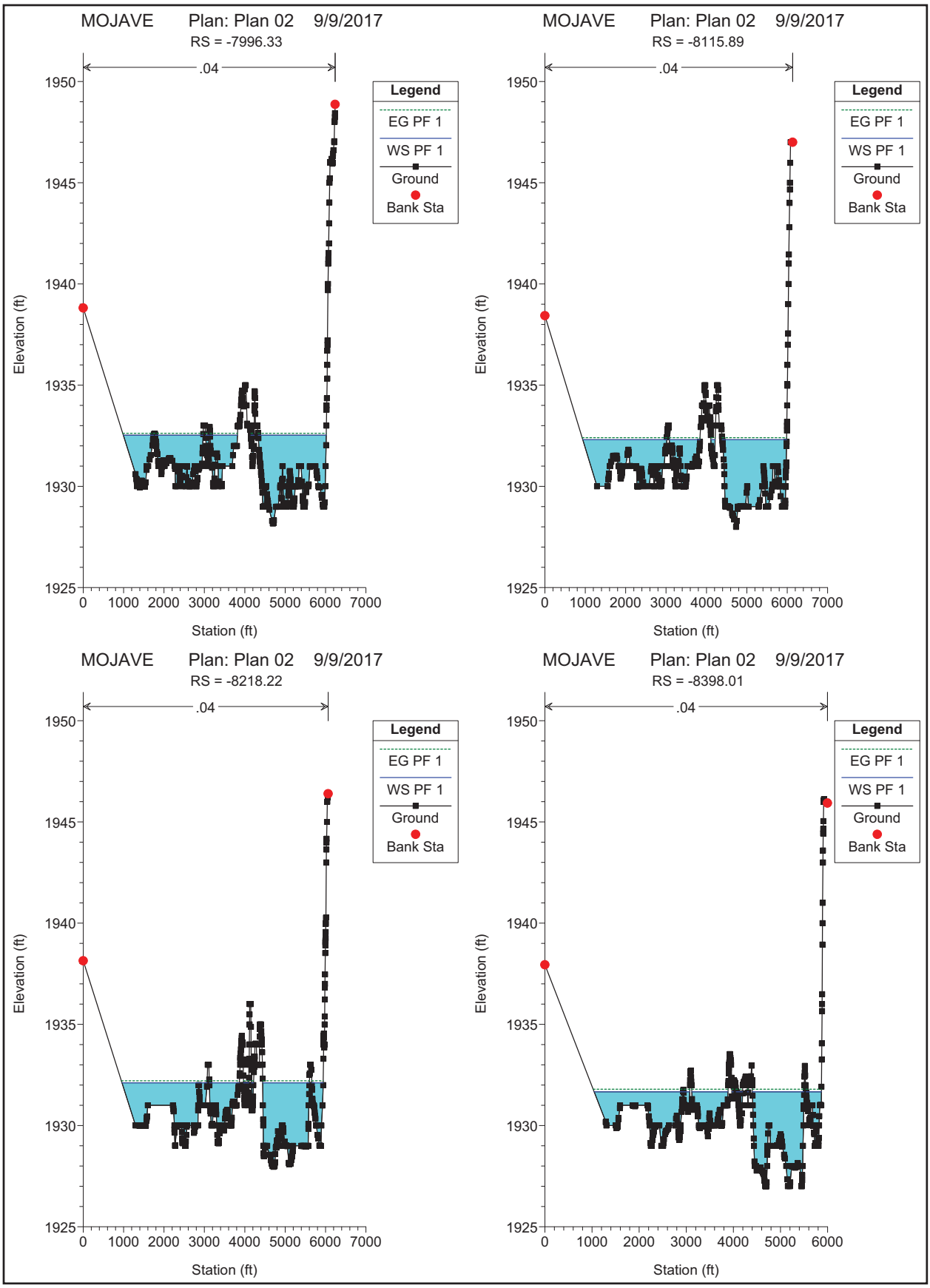

MOJAVE Plan: Plan 02 9/9/2017
RS = -5295.07
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
MOJAVE Plan: Plan 02 9/9/2017
RS = -5445.72
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
MOJAVE Plan: Plan 02 9/9/2017
RS = -5564.13
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
MOJAVE Plan: Plan 02 9/9/2017
RS = -5696.76
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

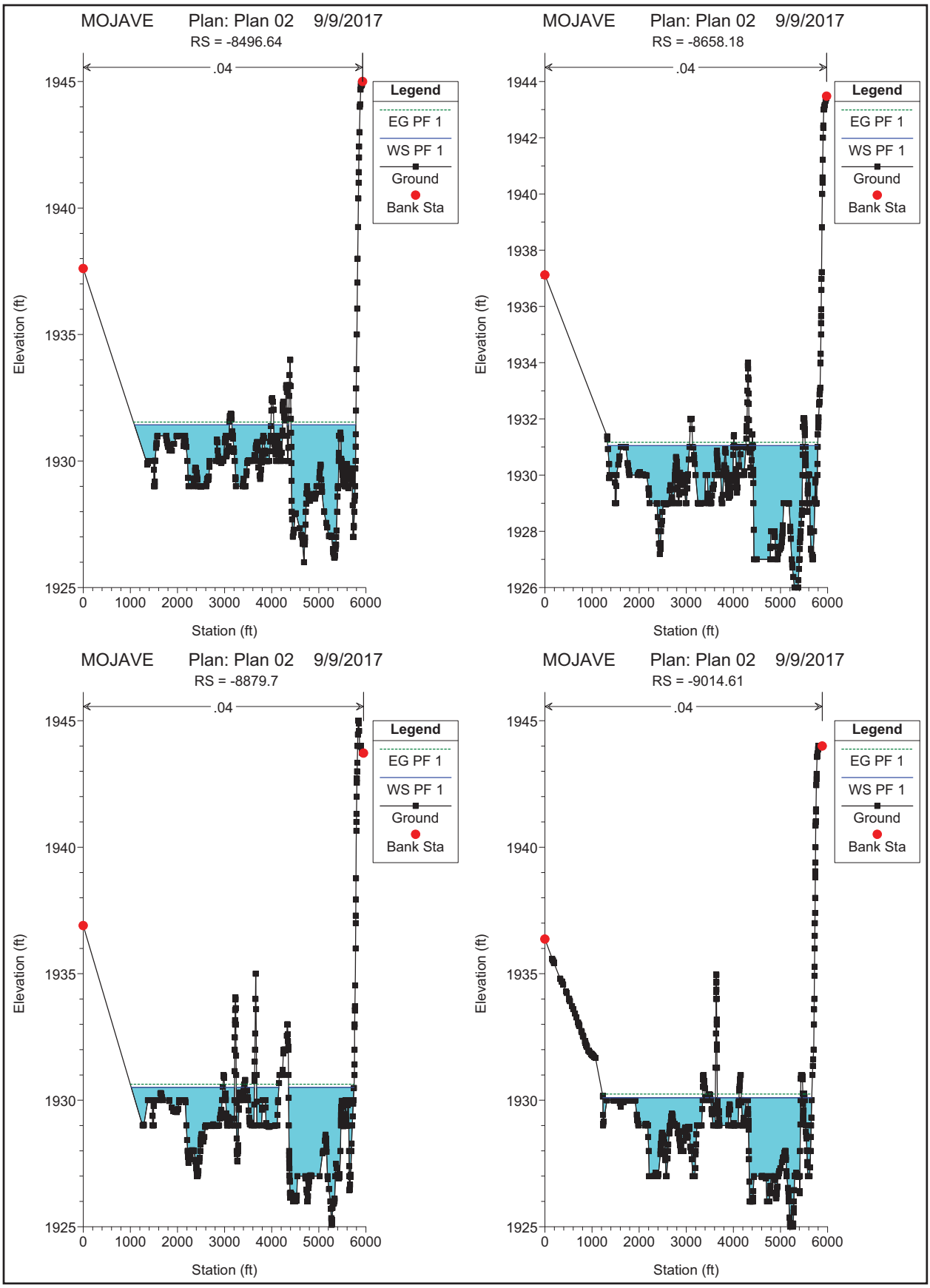

MOJAVE Plan: Plan 02 9/9/2017
RS = -5933.19
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
MOJAVE Plan: Plan 02 9/9/2017
RS = -6116.28
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
MOJAVE Plan: Plan 02 9/9/2017
RS = -6217.78
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
MOJAVE Plan: Plan 02 9/9/2017
RS = -6311.68
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

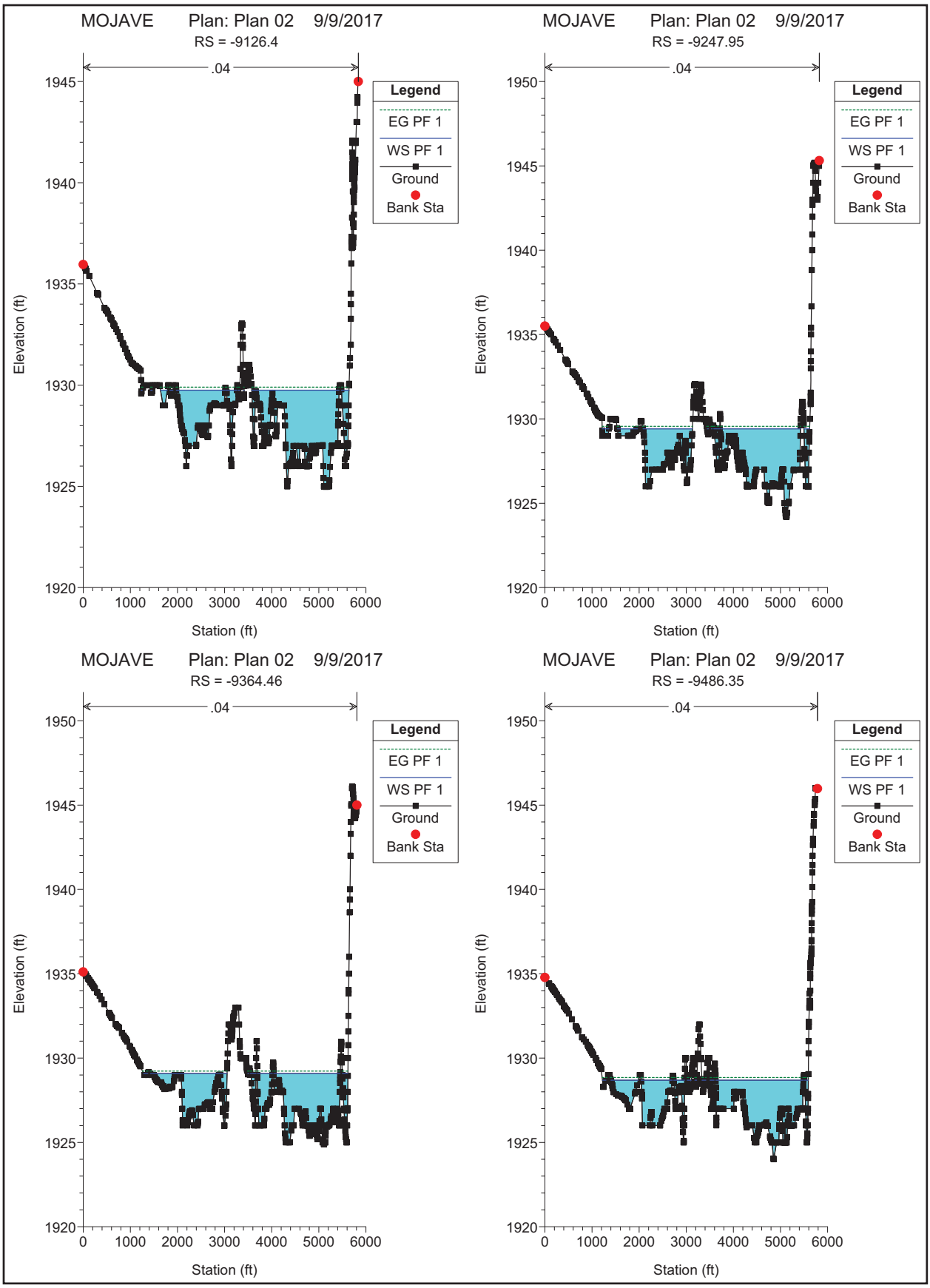

MOJAVE Plan: Plan 02 9/9/2017
RS = -6519.34
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
MOJAVE Plan: Plan 02 9/9/2017
RS = -6686.49
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
MOJAVE Plan: Plan 02 9/9/2017
RS = -6790.76
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
MOJAVE Plan: Plan 02 9/9/2017
RS = -6938.02
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

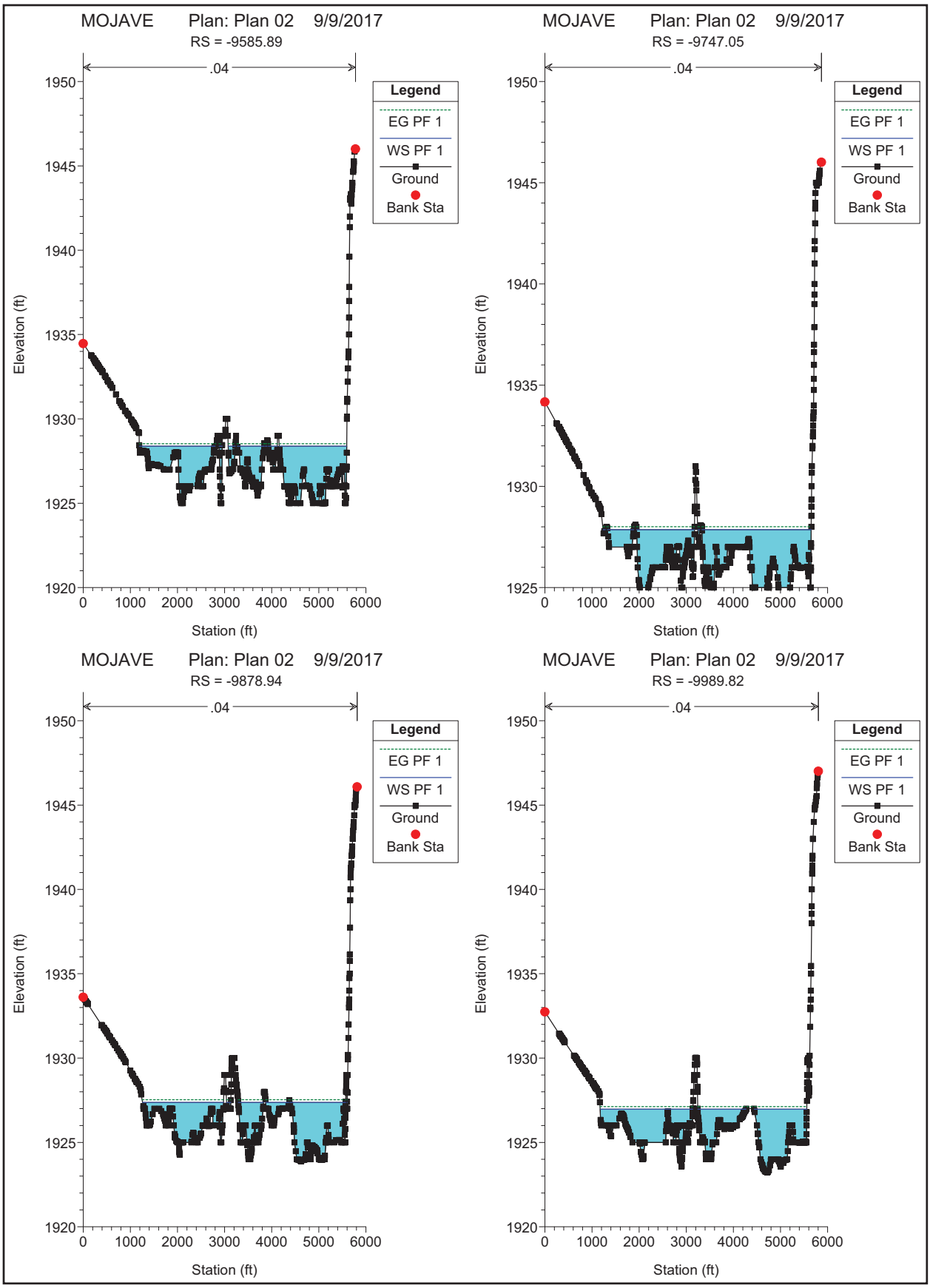

MOJAVE Plan: Plan 02 9/9/2017
RS = -6985.71
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
MOJAVE Plan: Plan 02 9/9/2017
RS = -7036.34
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
MOJAVE Plan: Plan 02 9/9/2017
RS = -7098.32
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
MOJAVE Plan: Plan 02 9/9/2017
RS = -7216.78
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

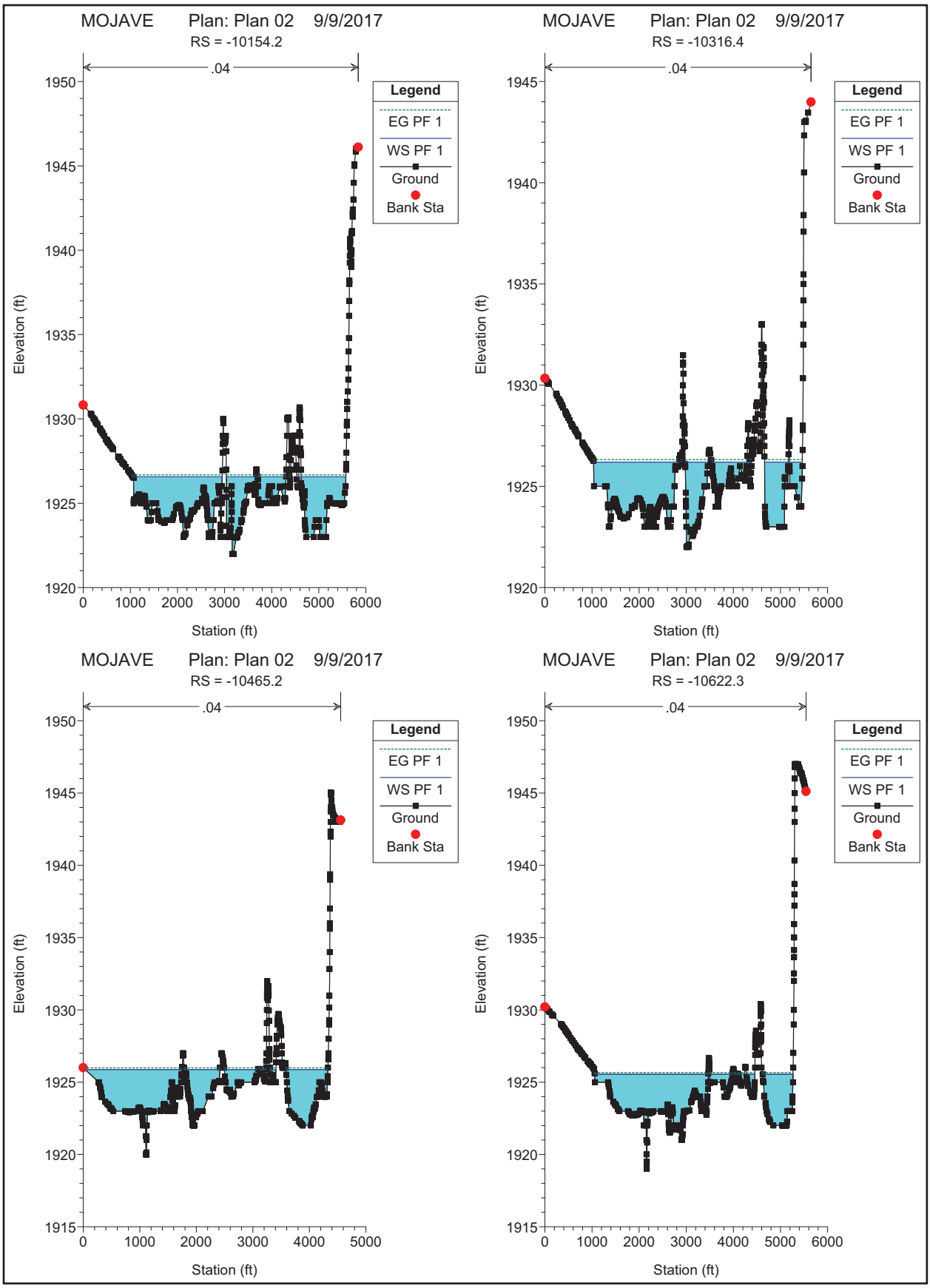

MOJAVE Plan: Plan 02 9/9/2017
RS = -7431.74
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
MOJAVE Plan: Plan 02 9/9/2017
RS = -7656.58
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
MOJAVE Plan: Plan 02 9/9/2017
RS = -7809.4
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
MOJAVE Plan: Plan 02 9/9/2017
RS = -7911.62
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

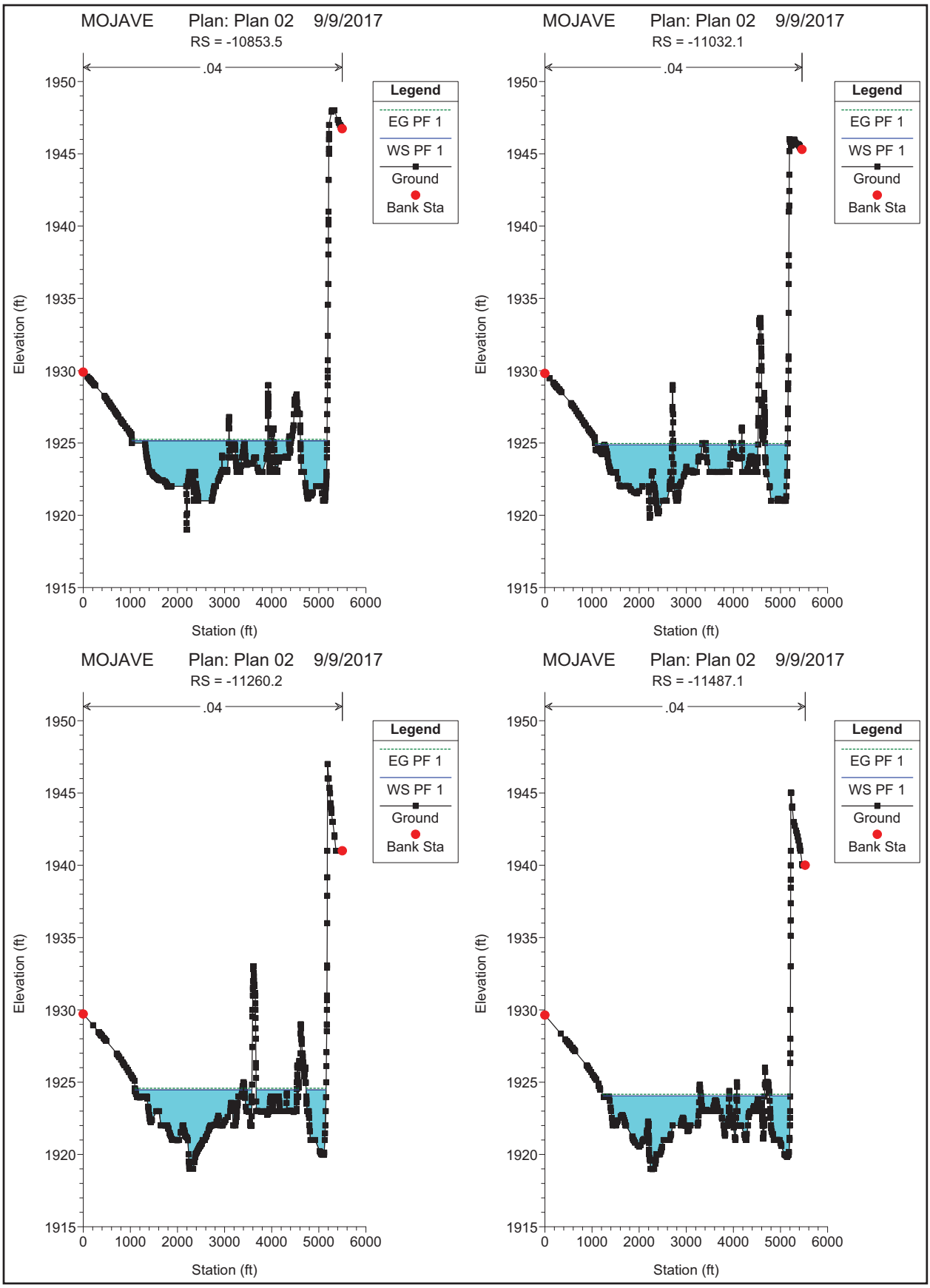

MOJAVE Plan: Plan 02 9/9/2017
RS = -7996.33
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
MOJAVE Plan: Plan 02 9/9/2017
RS = -8115.89
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
MOJAVE Plan: Plan 02 9/9/2017
RS = -8218.22
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
MOJAVE Plan: Plan 02 9/9/2017
RS = -8398.01
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

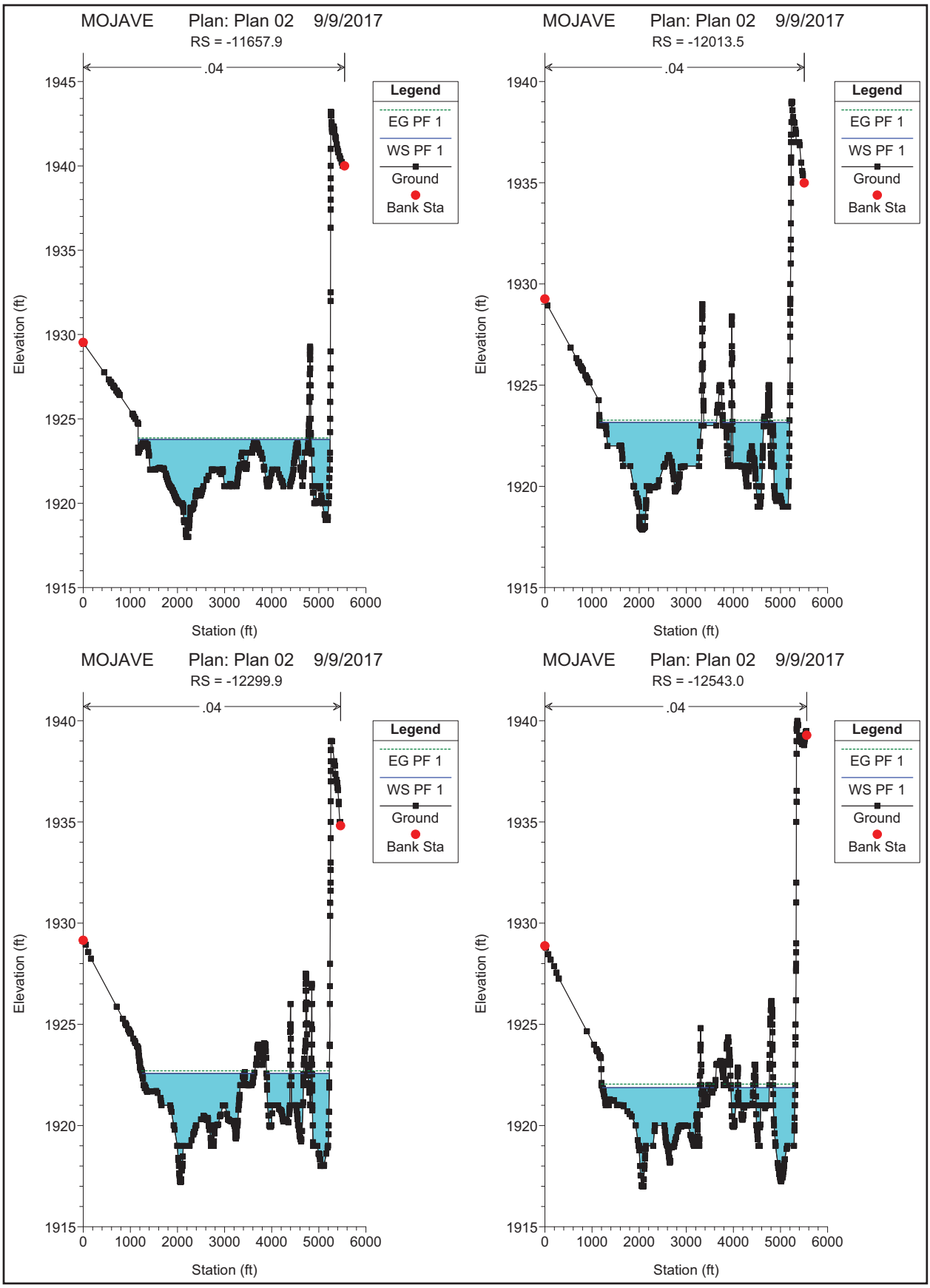

MOJAVE Plan: Plan 02 9/9/2017
RS = -8496.64
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
MOJAVE Plan: Plan 02 9/9/2017
RS = -8658.18
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
MOJAVE Plan: Plan 02 9/9/2017
RS = -8879.7
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
MOJAVE Plan: Plan 02 9/9/2017
RS = -9014.61
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)


MOJAVE Plan: Plan 02 9/9/2017
RS = -9126.4
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
MOJAVE Plan: Plan 02 9/9/2017
RS = -9247.95
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
MOJAVE Plan: Plan 02 9/9/2017
RS = -9364.46
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
MOJAVE Plan: Plan 02 9/9/2017
RS = -9486.35
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)


MOJAVE Plan: Plan 02 9/9/2017
RS = -9585.89
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
MOJAVE Plan: Plan 02 9/9/2017
RS = -9747.05
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
MOJAVE Plan: Plan 02 9/9/2017
RS = -9878.94
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
MOJAVE Plan: Plan 02 9/9/2017
RS = -9989.82
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)


MOJAVE Plan: Plan 02 9/9/2017
RS = -10154.2
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
MOJAVE Plan: Plan 02 9/9/2017
RS = -10316.4
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
MOJAVE Plan: Plan 02 9/9/2017
RS = -10465.2
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
MOJAVE Plan: Plan 02 9/9/2017
RS = -10622.3
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)


MOJAVE Plan: Plan 02 9/9/2017
RS = -10853.5
MOJAVE Plan: Plan 02 9/9/2017
RS = -11032.1
MOJAVE Plan: Plan 02 9/9/2017
RS = -11260.2
MOJAVE Plan: Plan 02 9/9/2017
RS = -11487.1
.04
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
1915
1920
1925
1930
1935
1940
1945
1950
0
1000
2000
3000
4000
5000
6000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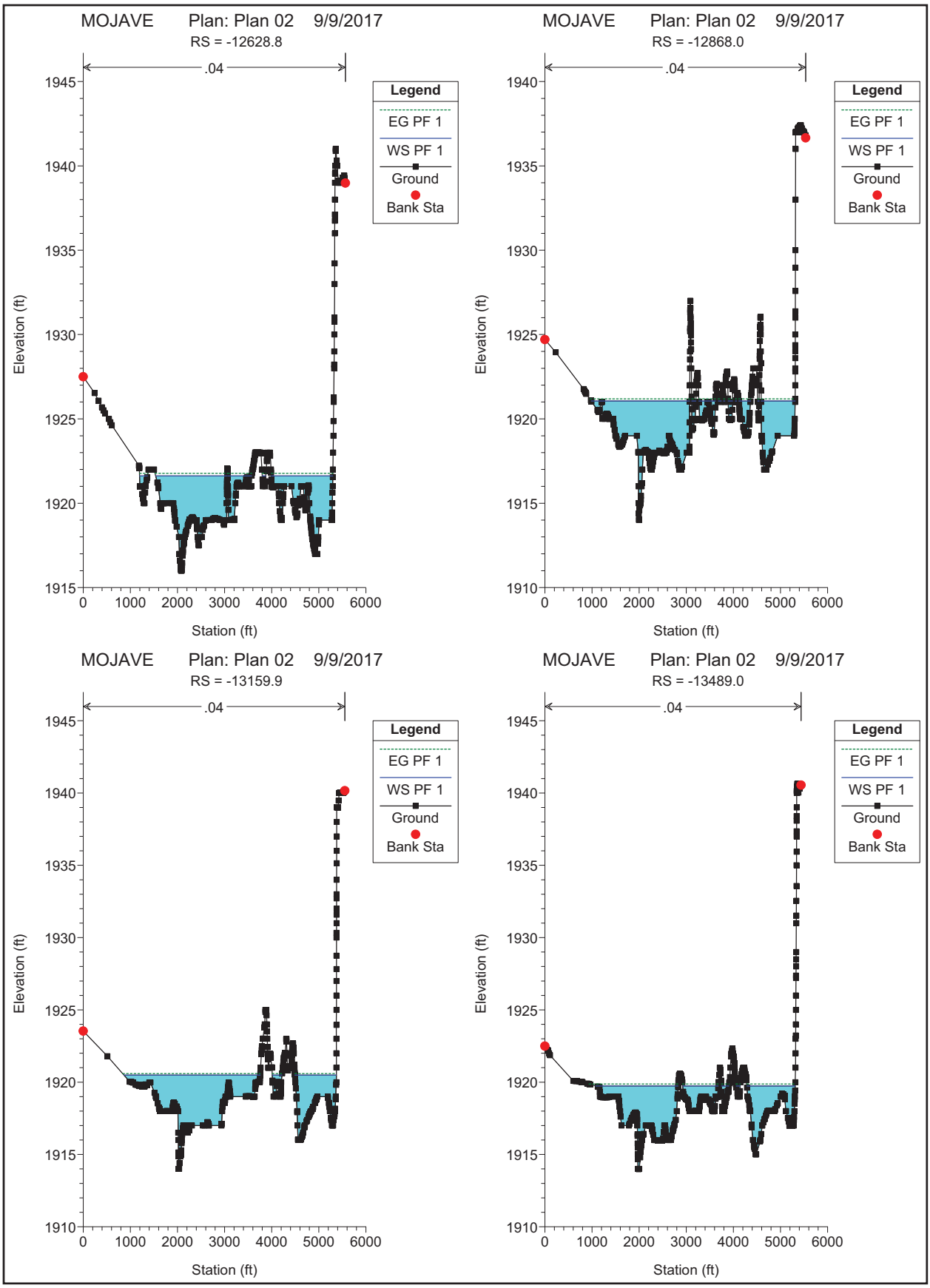
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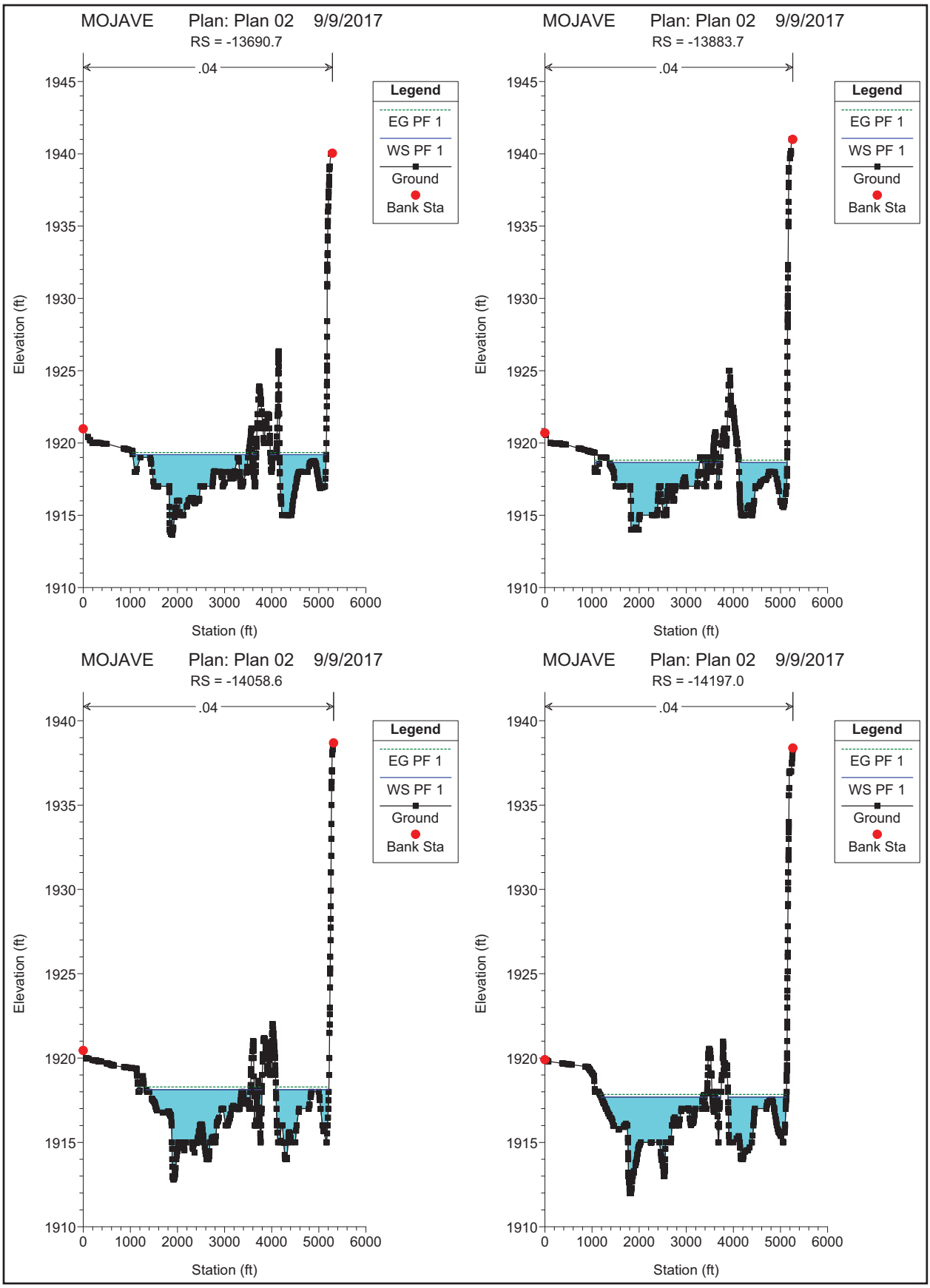
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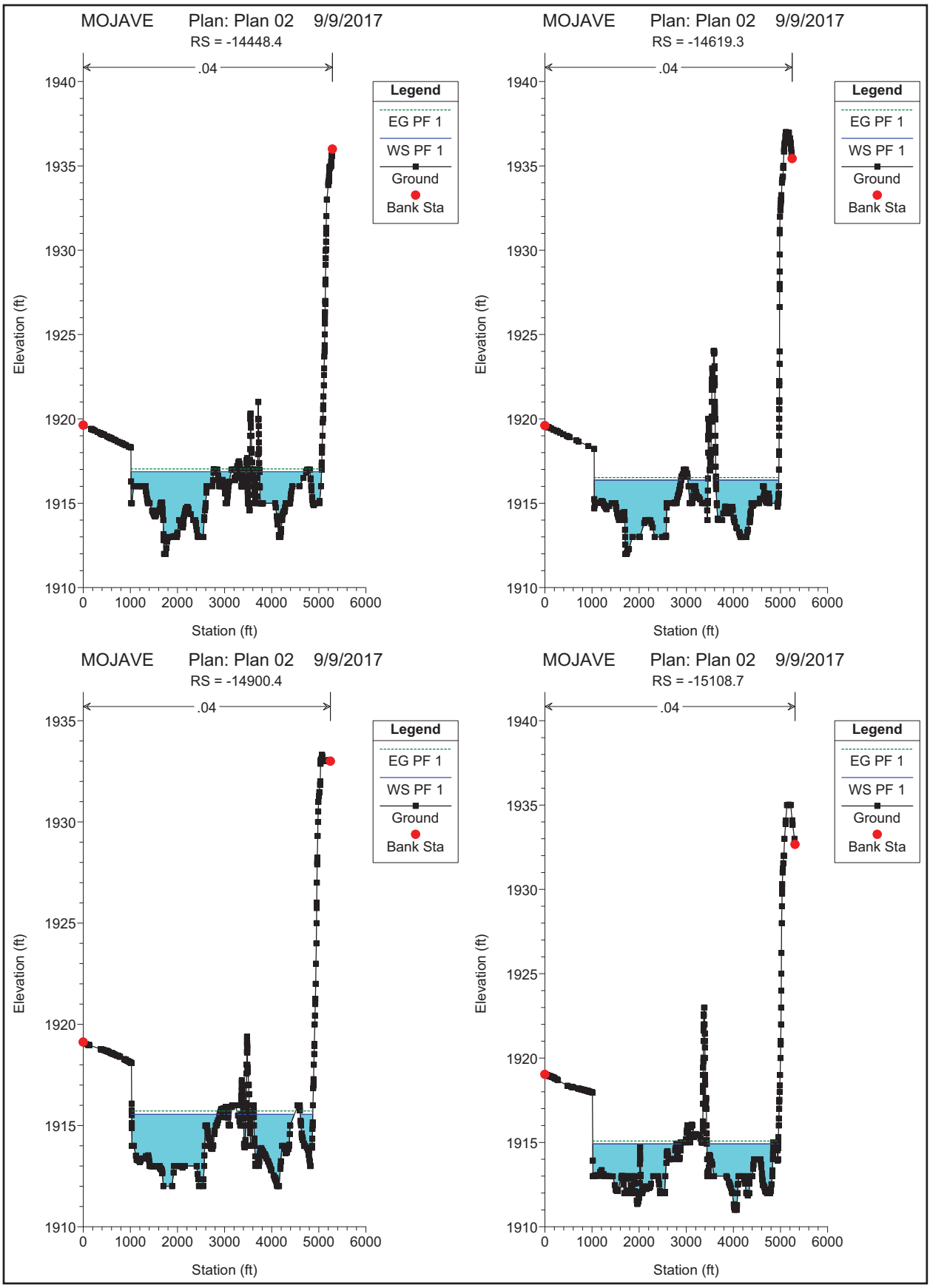
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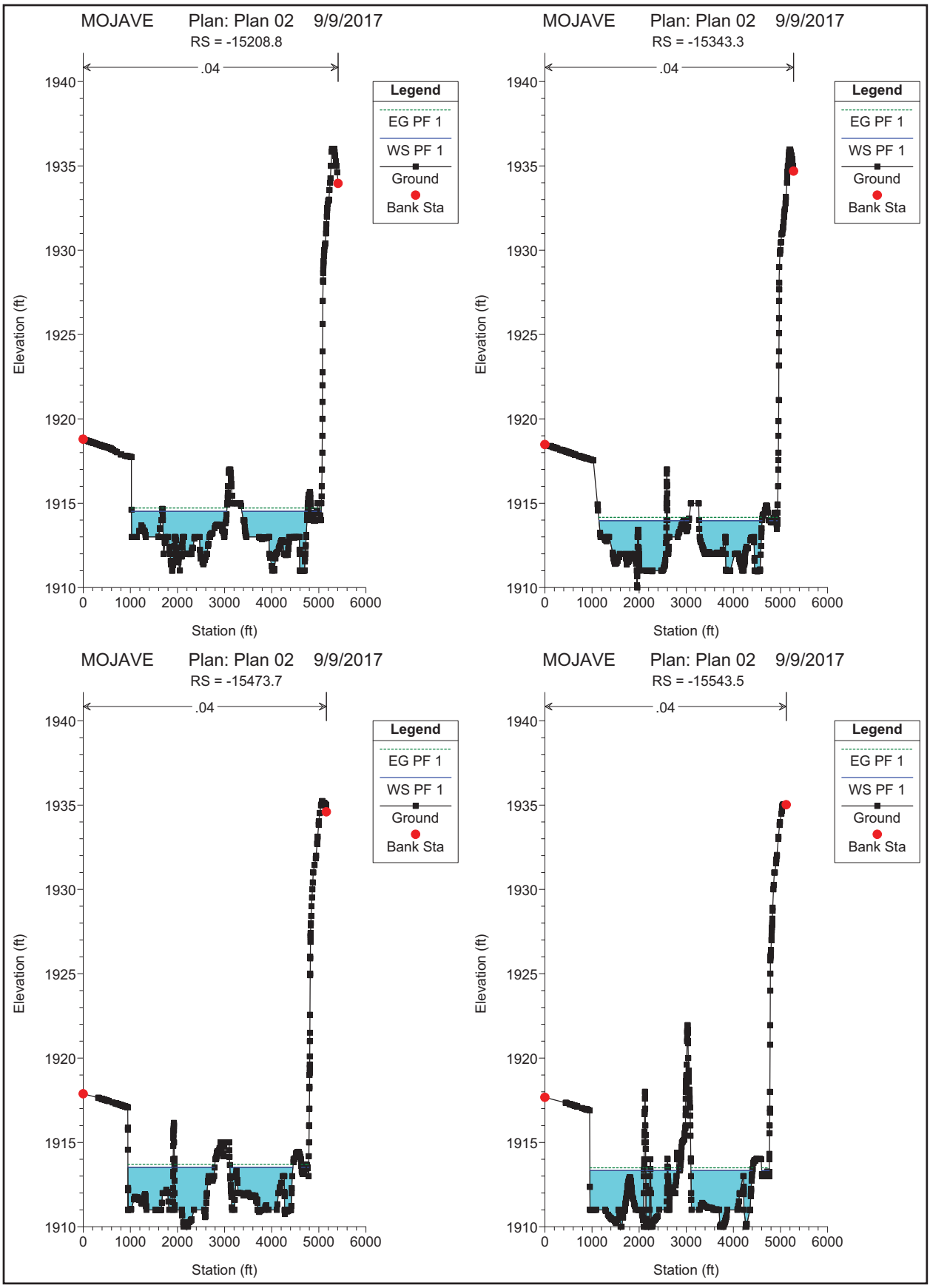
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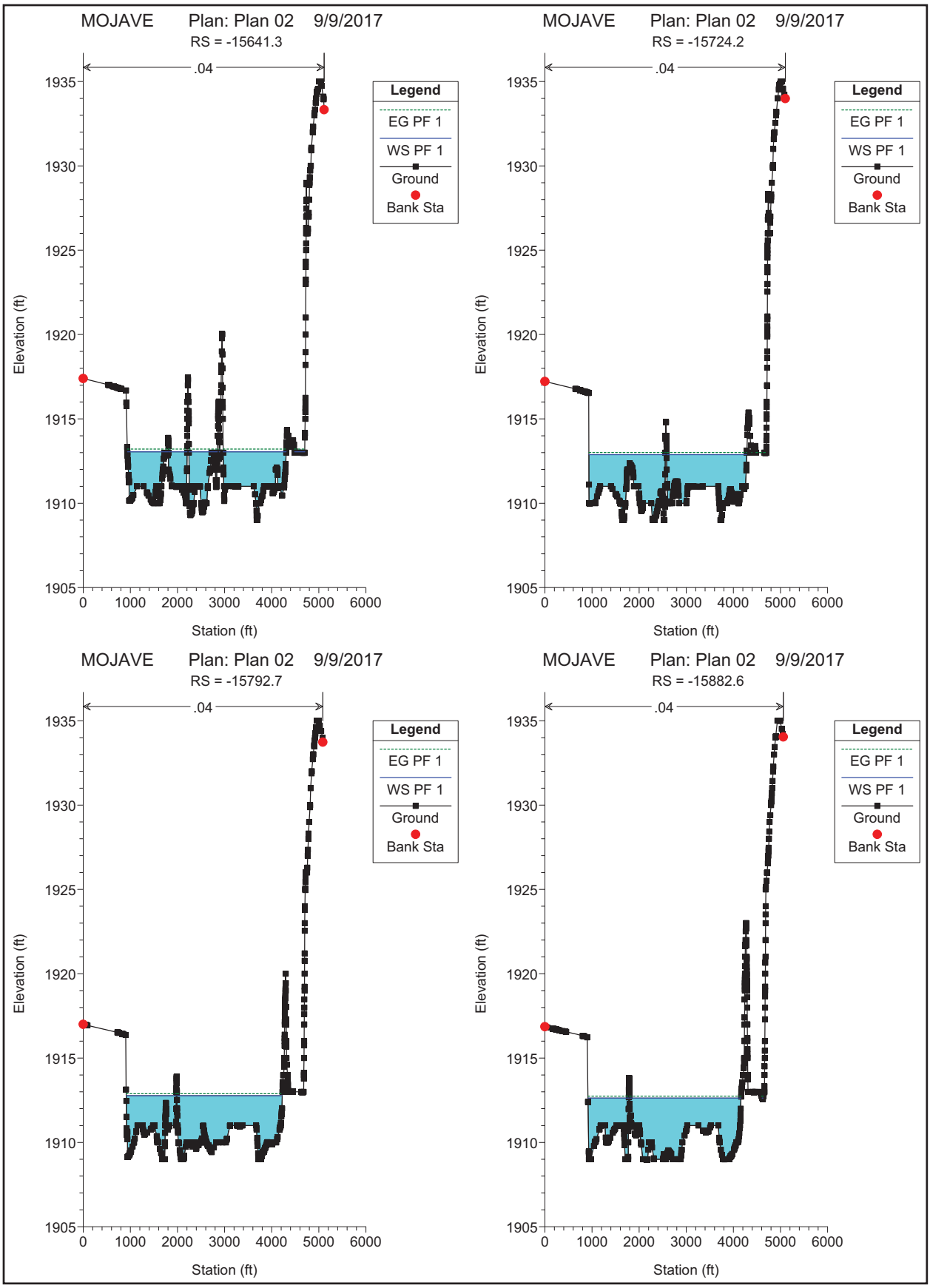
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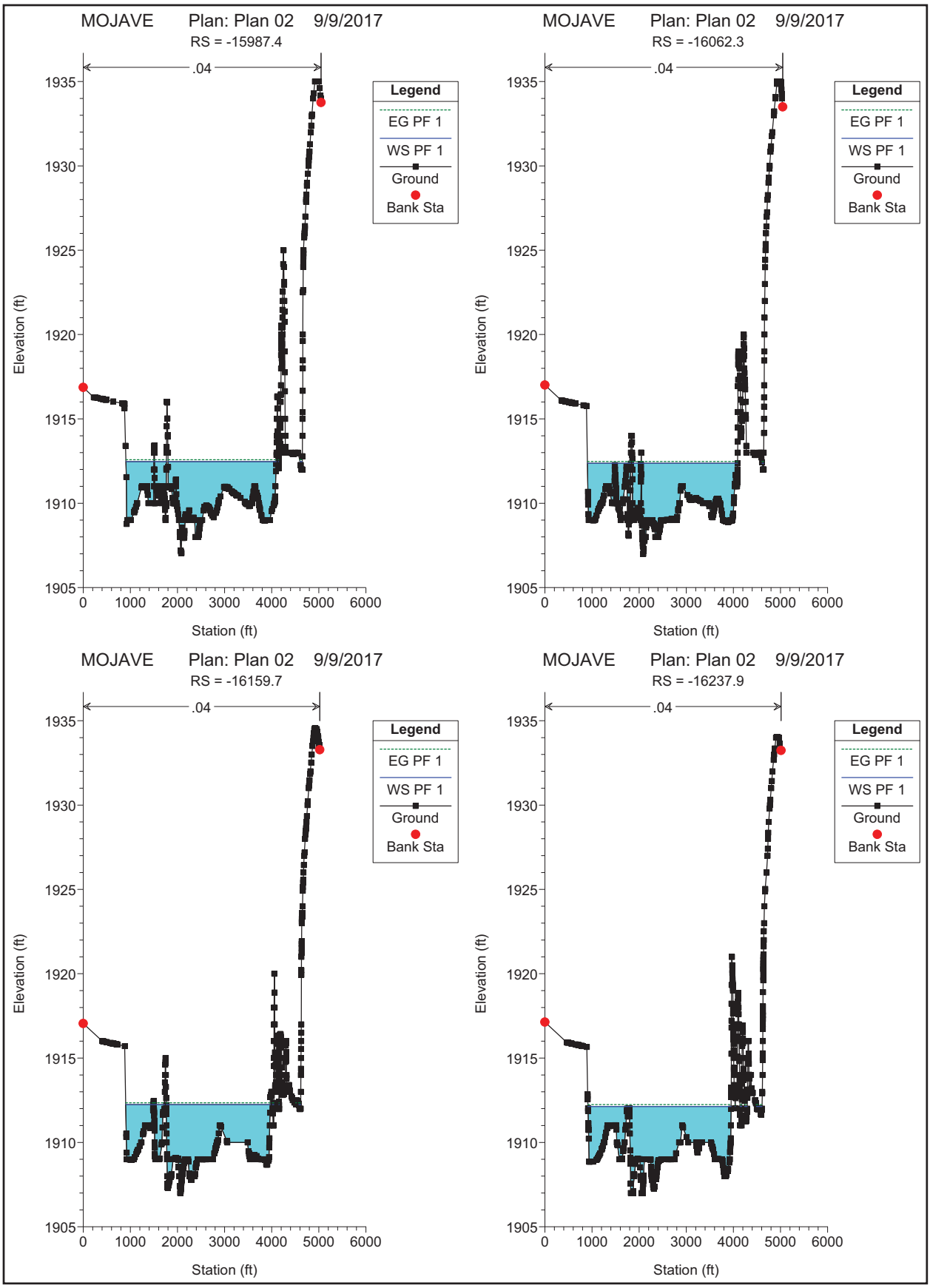
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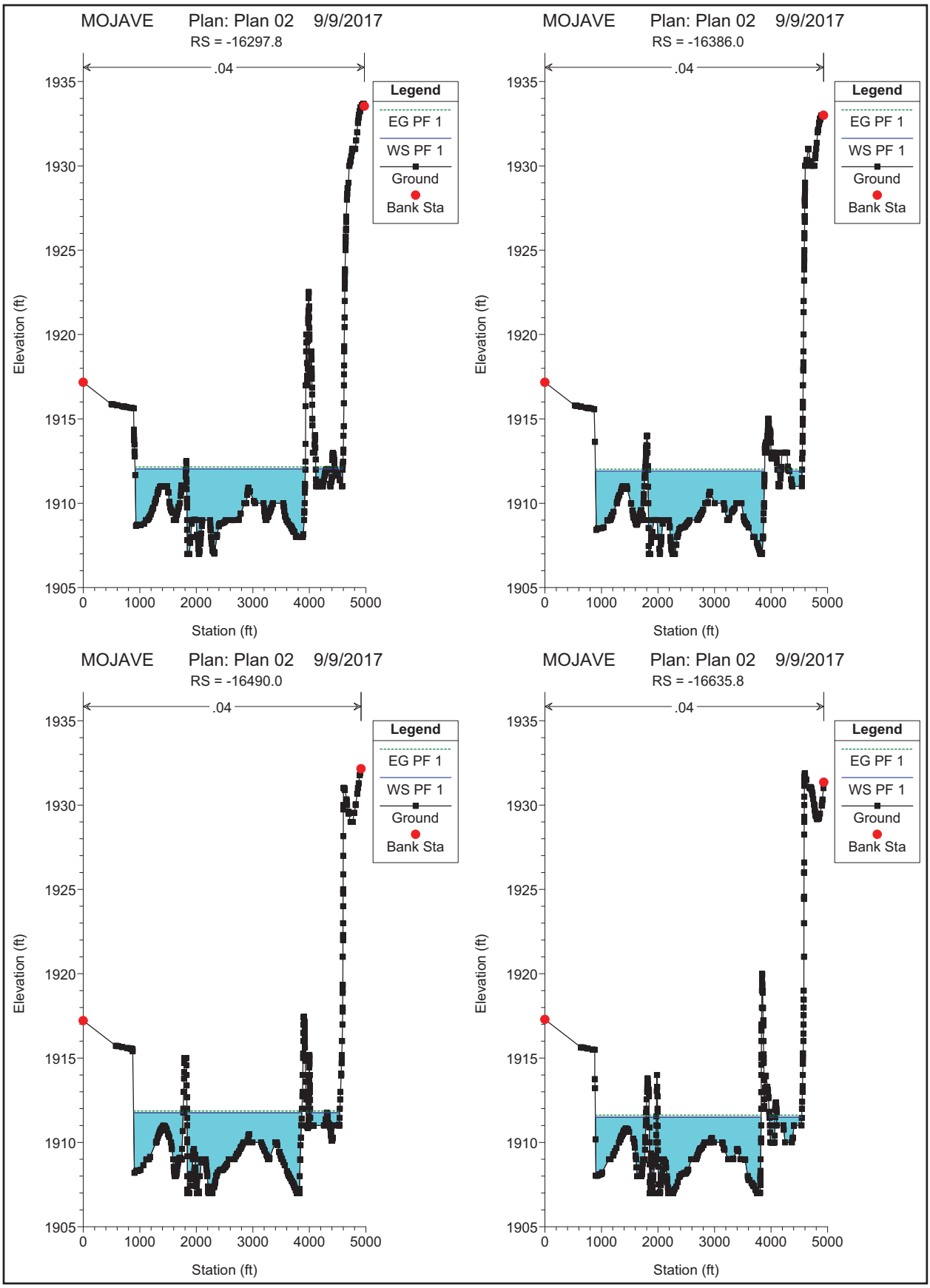
Station (ft)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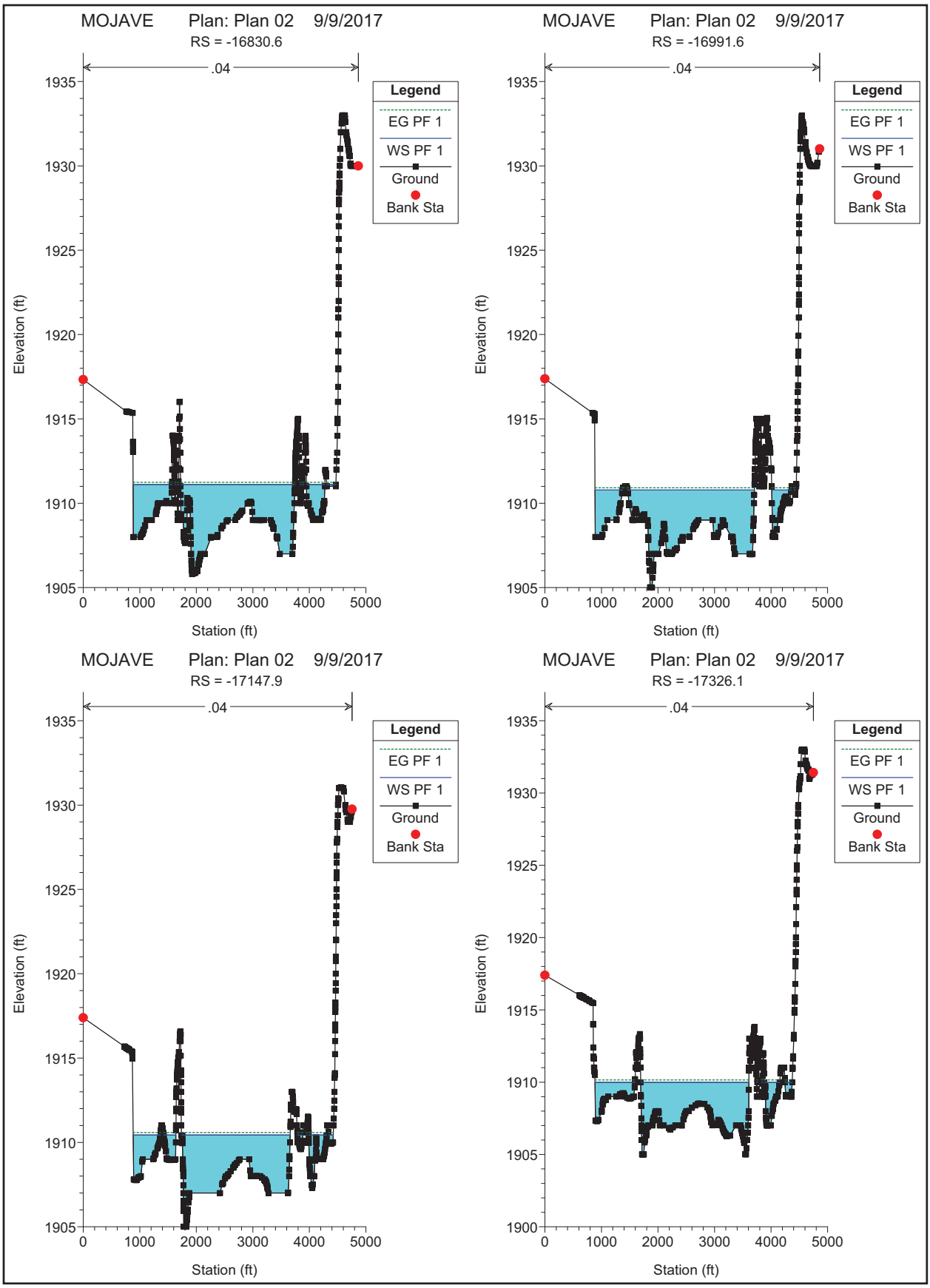
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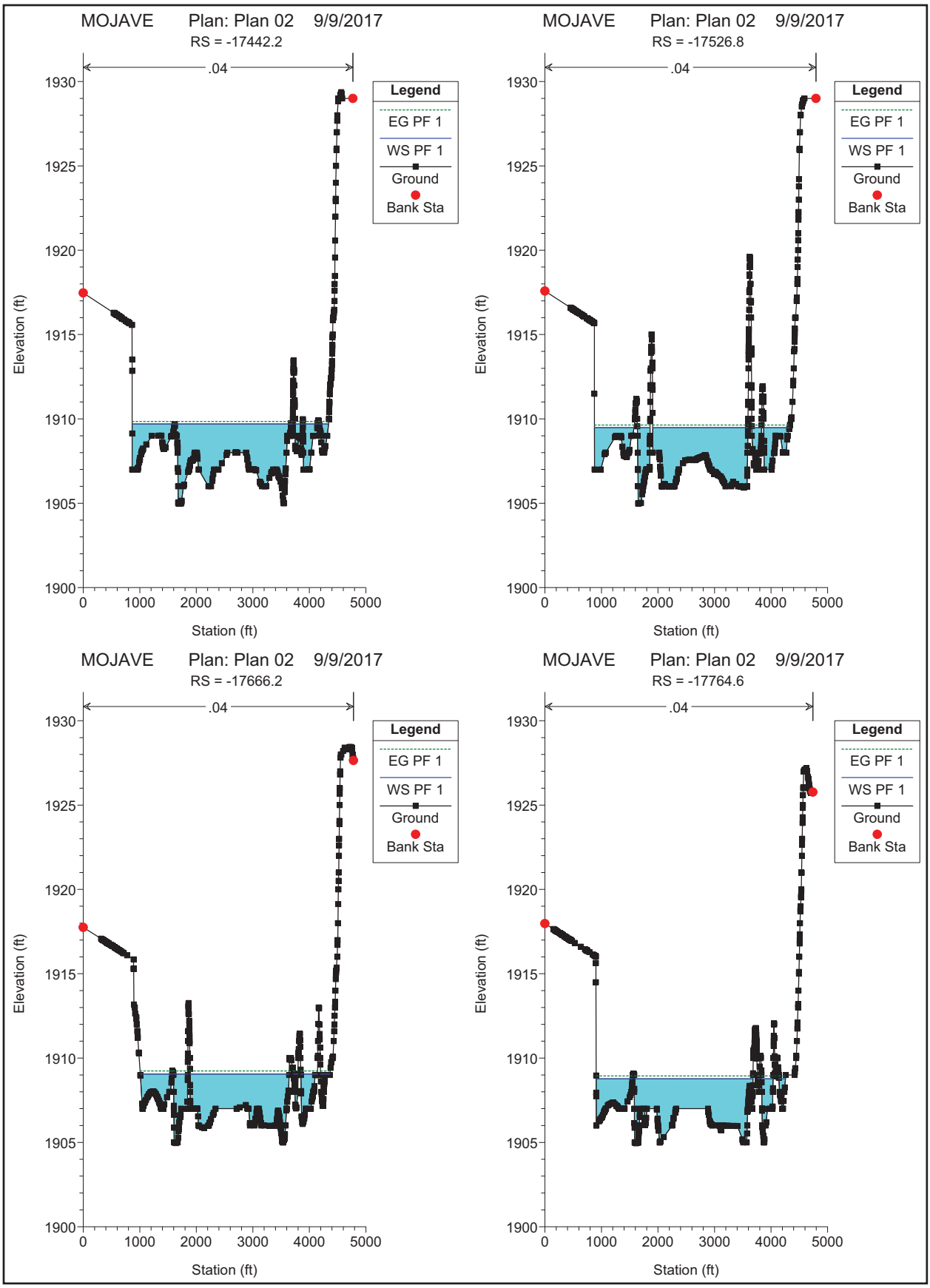
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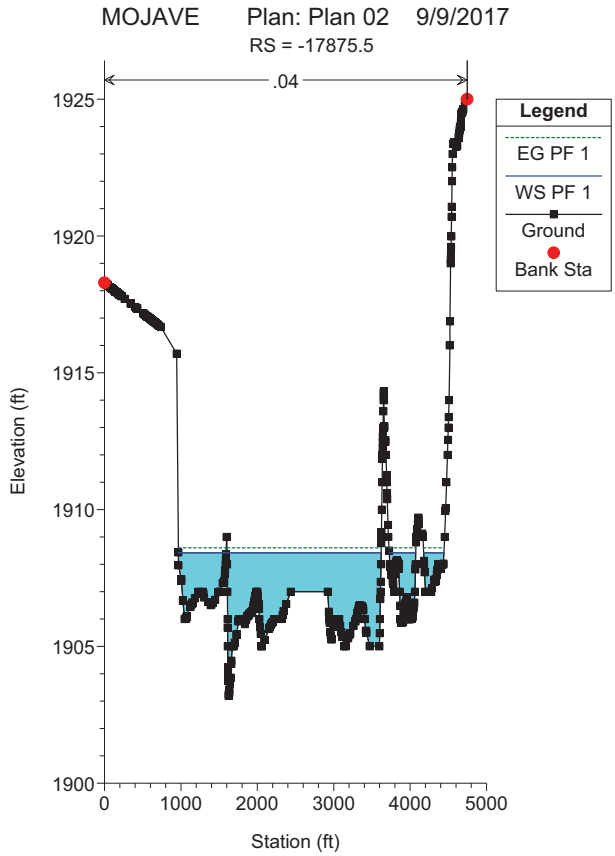
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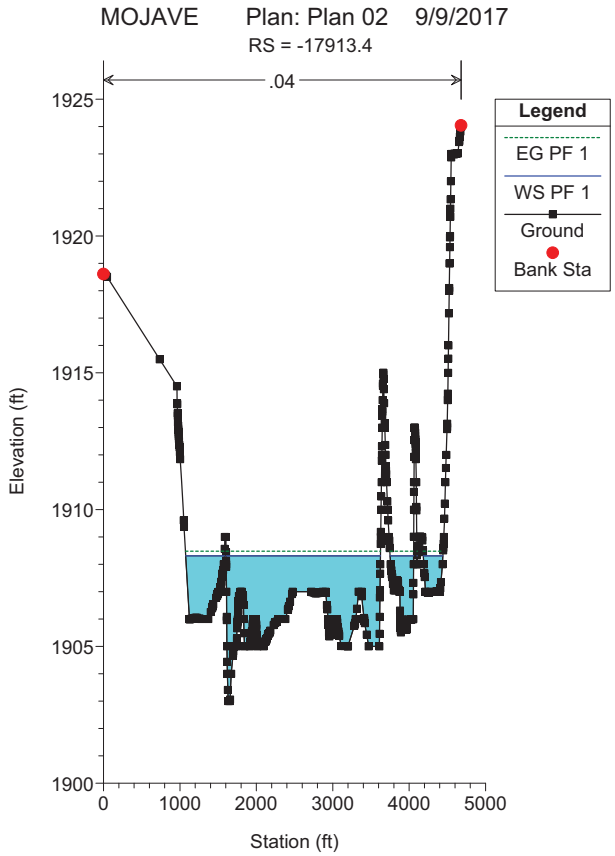
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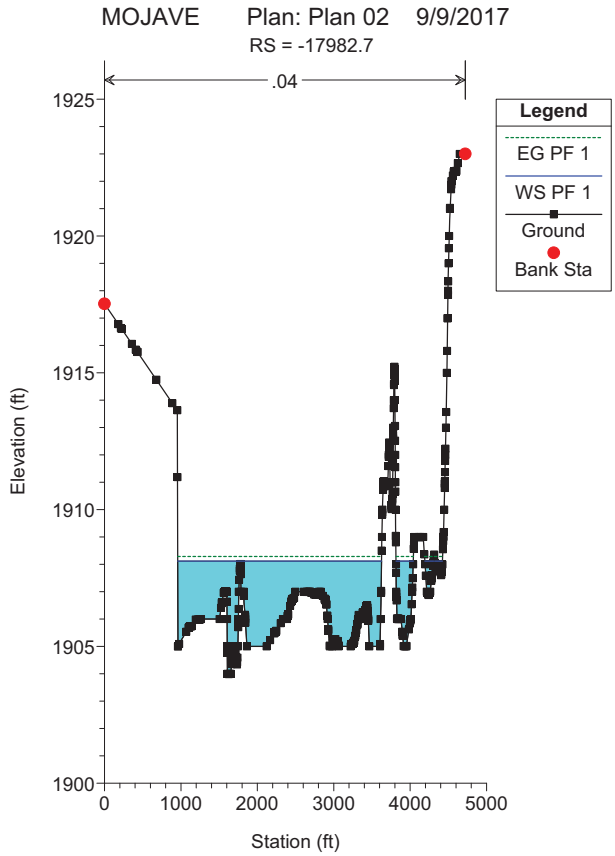
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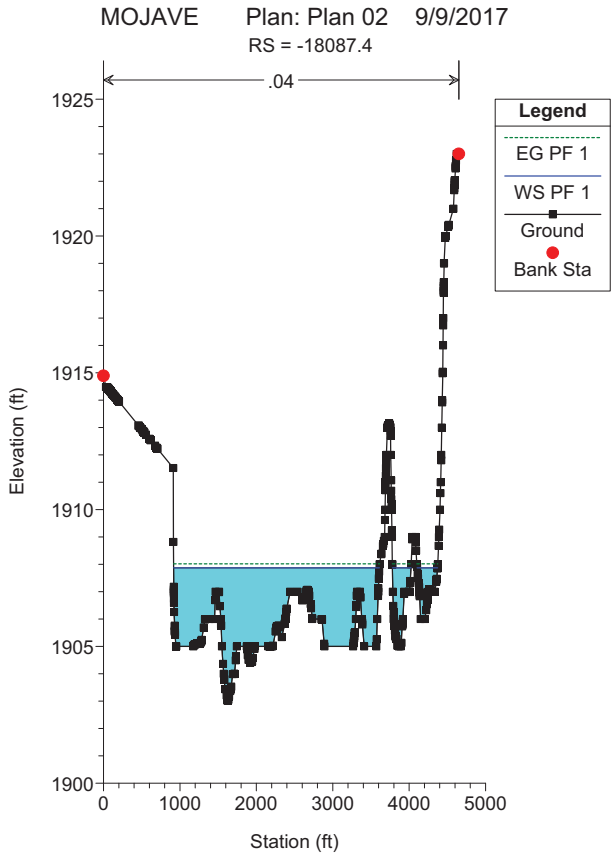
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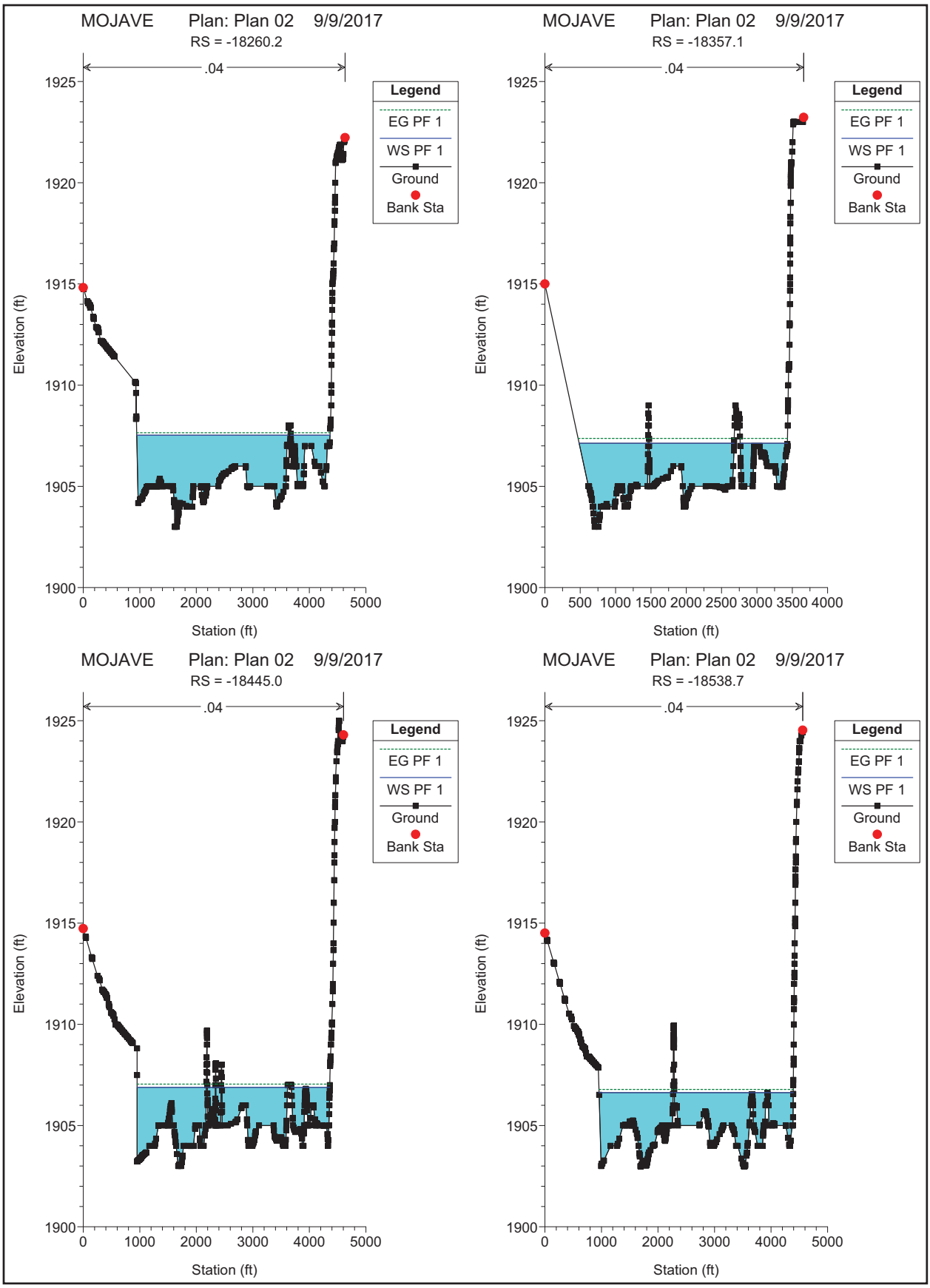
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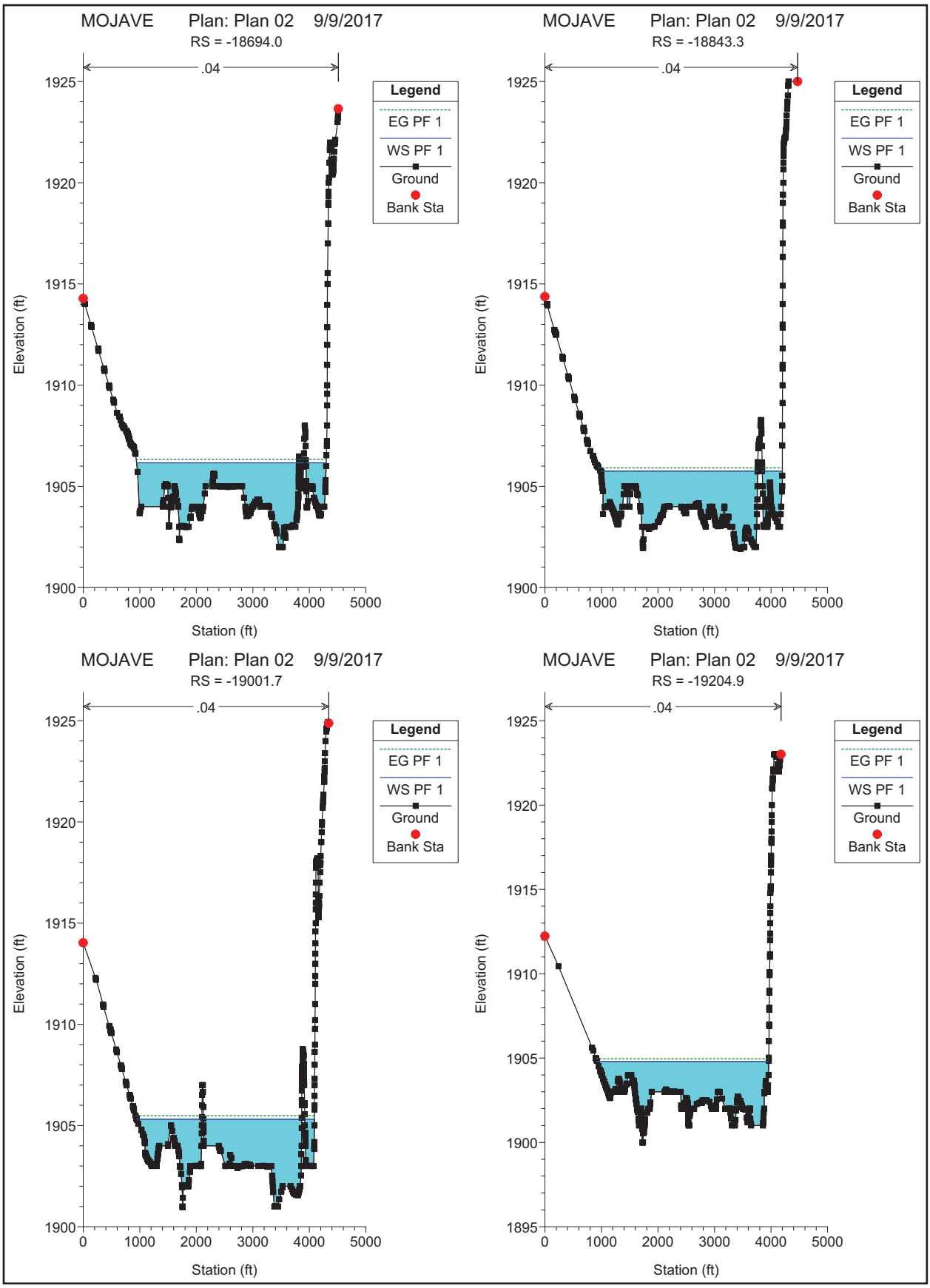
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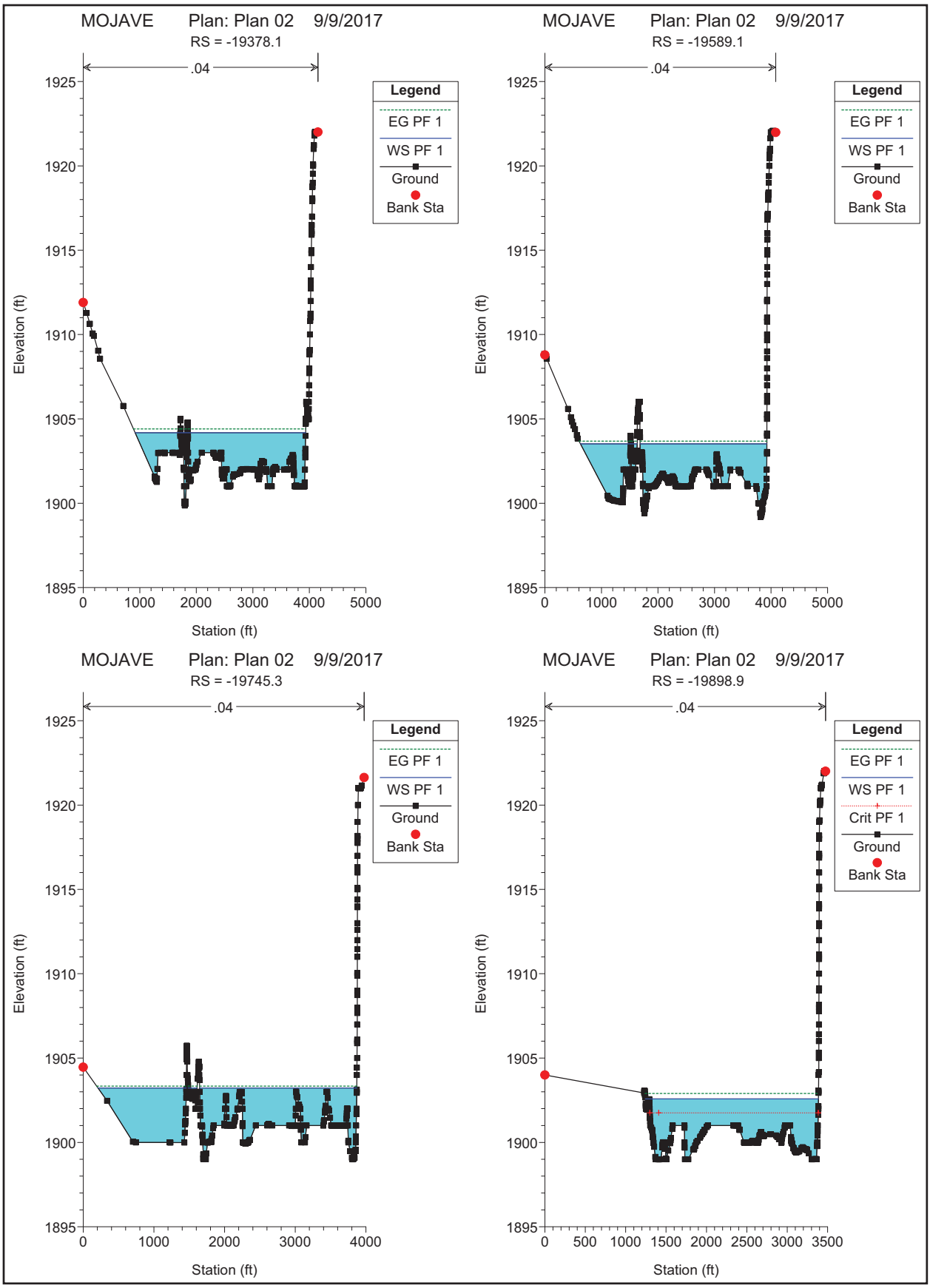
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Crit PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

ATTACHMENT NO. 4

Mojave River Wash
100-Year Hydrograph

Table 7 gives information concerning the velocity of water that would occur during the Standard Project Flood in the main channel and overbank areas on the Mojave River at the same points as shown in table 6.

Table 7

STANDARD PROJECT FLOOD

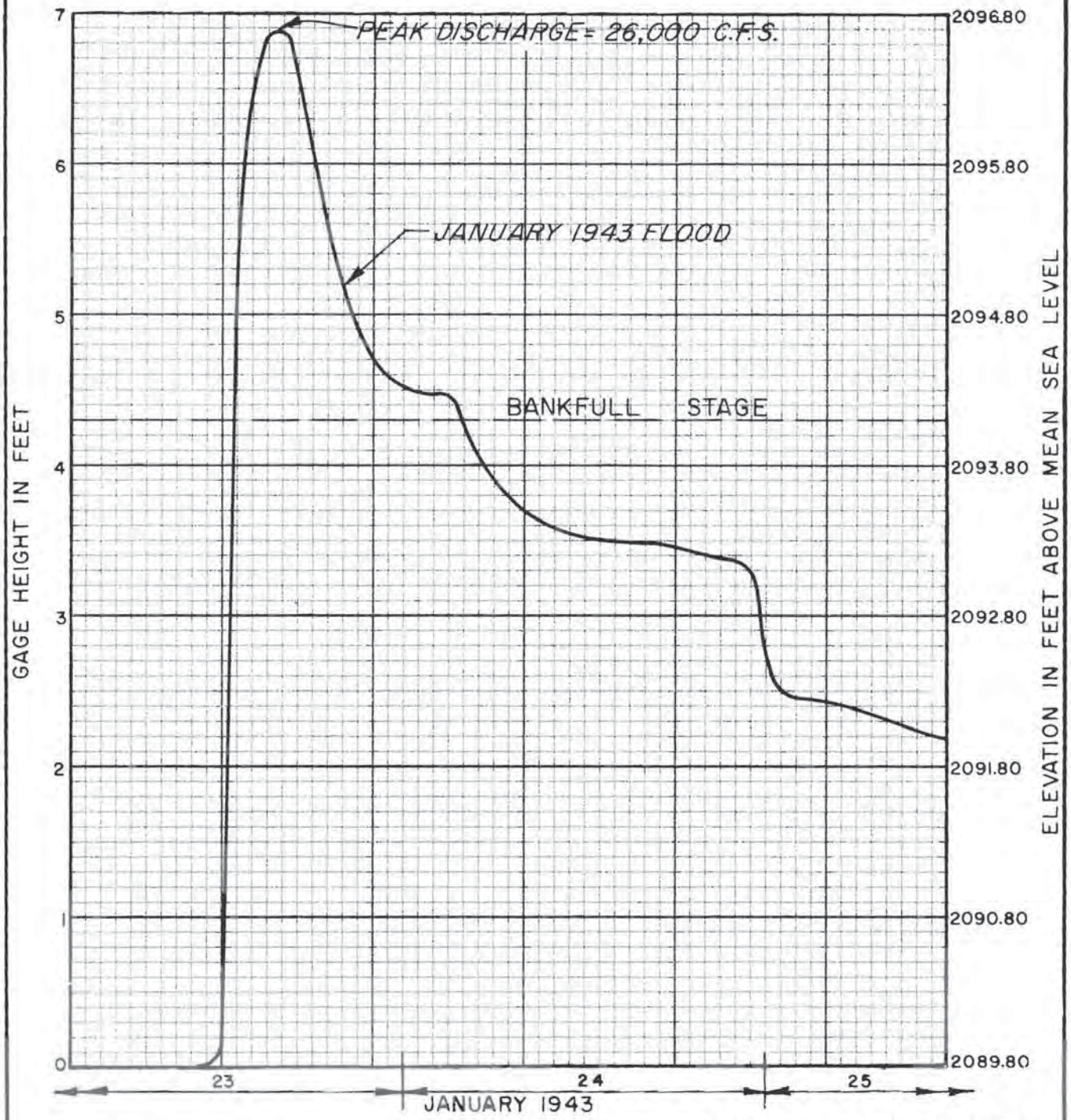
VELOCITY

Stream	Location	Mile above mouth	Velocity Channel fps	Velocity Overbank fps
Mojave River	Lower limit of study	44.6	4.5	2.0
	Daggett	52.7	10.5	6.0
	Old U.S. 91 (business) at Barstow	61.5	5.5	2.5
	Barstow	62.1	10.0	7.0
	Lenwood	67.0	9.5	2.5
	Hodge	74.6	3.5	2.5
	Upper limit of study	84.0	5.0	--

Velocities greater than 3 feet per second combined with depths of 3 feet or greater are generally considered hazardous.

Rate of rise and duration of flooding

The rise from streambed to extreme flood peak during a local storm (thunderstorm) would be approximately 2 to 3 hours and the floodwaters would remain on the flood plain for less than 1/2 day. During a general storm and with the Mojave River Reservoir in operation the rise from streambed to extreme flood peak would be approximately 1 1/2 days and the floodwaters would remain on the floodplain for approximately 2 to 3 days.



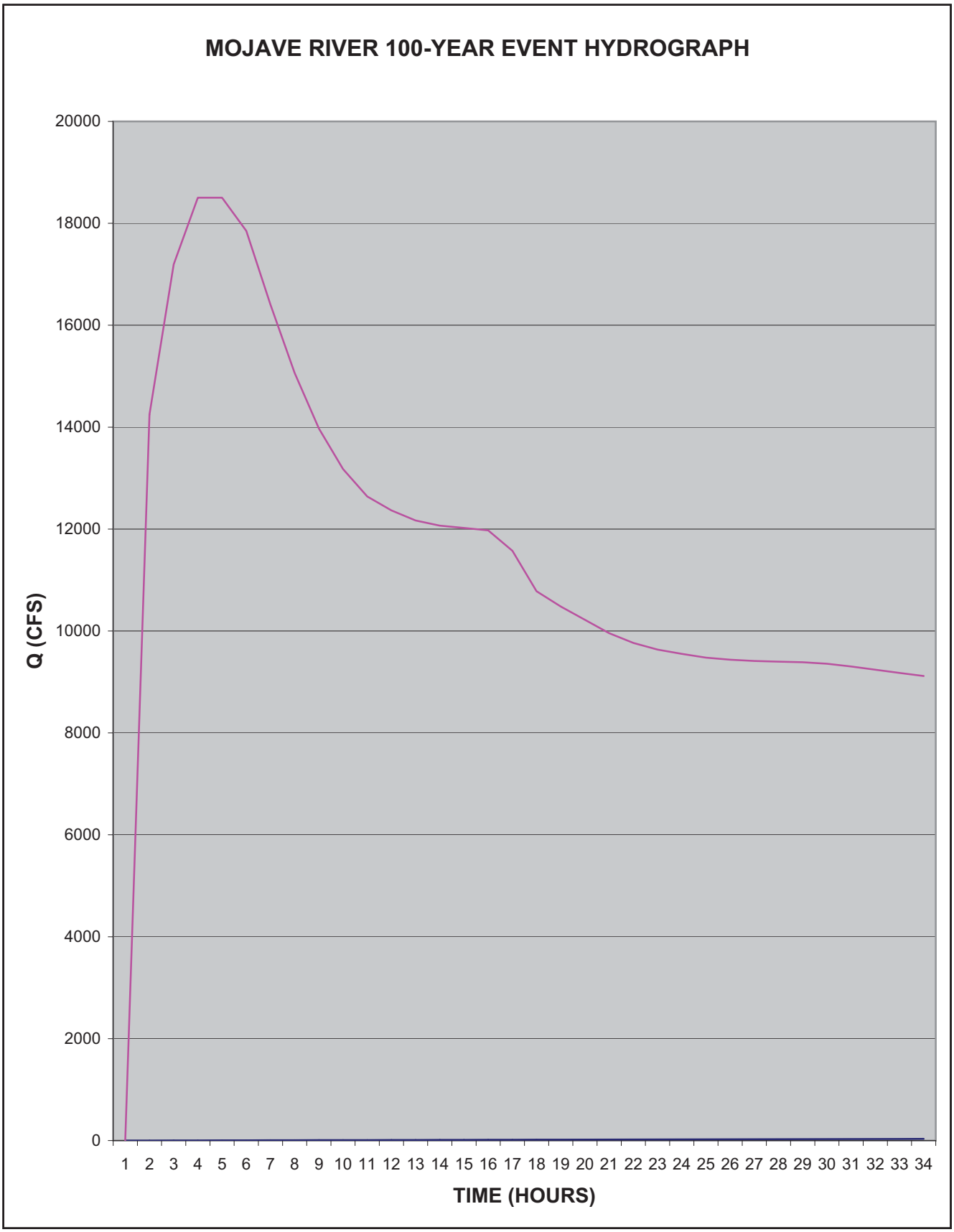
STREAM GAGE AT
RIVER MILE 61.6

CORPS OF ENGINEERS, U. S. ARMY
LOS ANGELES DISTRICT, CALIFORNIA

STAGE HYDROGRAPH

MOJAVE RIVER
VICINITY OF
BARSTOW, CALIFORNIA
OCTOBER 1968

FIGURE 11


MOJAVE RIVER 100-YEAR EVENT HYDROGRAPH
Q (CFS)
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34
TIME (HOURS)

0	29.8214
0	0
.0833	.17
.1666	.62
.2499	1.32
.3332	2.29
.4165	3.62
.4998	5.85
.5831	9.2
.6664	12.51
.7497	15.44
.833	17.87
.9163	19.73
.9996	21.2
1.0829	22.43
1.1662	23.52
1.2495	24.51
1.3328	25.39
1.4161	26.18
1.4994	26.92
1.5827	27.6
1.666	28.2
1.7493	28.79
1.8326	29.31
1.9159	29.83
1.9992	30.32
2.0825	30.79
2.1658	31.24
2.2491	31.66
2.3324	32.06
2.4157	32.41
2.499	32.77
2.5823	33.11
2.6656	33.45
2.7489	33.77
2.8322	34.09
2.9155	34.4
2.9988	34.7
3.0821	34.99
3.1654	35.26
3.2487	35.53
3.332	35.8
3.4153	36.08
3.4986	36.33
3.5819	36.58
3.6652	36.84
3.7485	37.09
3.8318	37.34
3.9151	37.57
3.9984	37.81
4.0817	38.04
4.165	38.28
4.2483	38.5
4.3316	38.71
4.4149	38.93
4.4982	39.15
4.5815	39.38
4.6648	39.61
4.7481	39.84
4.8314	40.07
4.9147	40.31
4.998	40.55
5.0813	40.79
5.1646	41.04
5.2479	41.28
5.3312	41.53
5.4145	41.76
5.4978	42
5.5811	42.23
5.6644	42.47
5.7477	42.72
5.831	42.96
5.9143	43.2
5.9976	43.43
6.0809	43.67
6.1642	43.9
6.2475	44.14
6.3308	44.39

6.4141	44.63
6.4974	44.88
6.5807	45.14
6.664	45.4
6.7473	45.66
6.8306	45.92
6.9139	46.19
6.9972	46.46
7.0805	46.74
7.1638	47.02
7.2471	47.3
7.3304	47.59
7.4137	47.88
7.497	48.18
7.5803	48.48
7.6636	48.78
7.7469	49.1
7.8302	49.41
7.9135	49.73
7.9968	50.06
8.0801	50.39
8.1634	50.72
8.2467	51.07
8.33	51.41
8.4133	51.77
8.4966	52.12
8.5799	52.49
8.6632	52.86
8.7465	53.24
8.8298	53.62
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8.9964	54.41
9.0797	54.82
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9.2463	55.65
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9.4129	56.51
9.4962	56.96
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9.6628	57.87
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9.9127	59.32
9.996	59.81
10.0793	60.33
10.1626	60.85
10.2459	61.38
10.3292	61.92
10.4125	62.48
10.4958	63.05
10.5791	63.63
10.6624	64.22
10.7457	64.83
10.829	65.45
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12.3284	79.78
12.4117	80.78
12.495	81.77
12.5783	82.76
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12.7449	84.86
12.8282	85.99

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13.0781	89.78
13.1614	91.16
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13.7445	102.7
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13.9944	108.93
14.0777	111.37
14.161	114.15
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14.9107	160.54
14.994	166.69
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15.827	261.88
15.9103	281.74
15.9936	313.39
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16.1602	522.54
16.2435	646.33
16.3268	784.03
16.4101	968.63
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16.66	1569.92
16.7433	1413.19
16.8266	1211.27
16.9099	1000.01
16.9932	846.49
17.0765	746.54
17.1598	673.86
17.2431	619.38
17.3264	564.87
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17.493	483.48
17.5763	445.31
17.6596	406.78
17.7429	385.33
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17.9095	339.81
17.9928	319.37
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18.1594	286.34
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25.3232	9.98
25.4065	9.2
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25.6564	7.27
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26.1562	4.62
26.2395	4.28
26.3228	3.98
26.4061	3.72
26.4894	3.47
26.5727	3.23
26.656	3
26.7393	2.79
26.8226	2.59
26.9059	2.41
26.9892	2.23
27.0725	2.07
27.1558	1.93
27.2391	1.79
27.3224	1.66
27.4057	1.53
27.489	1.42
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27.6556	1.22
27.7389	1.12
27.8222	1.03
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1.1662	23.55
1.2495	24.41
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1.4994	26.56
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1.9159	29.21
1.9992	29.65
2.0825	30.08
2.1658	30.45
2.2491	30.81
2.3324	31.16
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2.499	31.83
2.5823	32.15
2.6656	32.46
2.7489	32.76
2.8322	33.05
2.9155	33.32
2.9988	33.59
3.0821	33.86
3.1654	34.12
3.2487	34.37
3.332	34.62
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3.4986	35.11
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3.6652	35.56
3.7485	35.79
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3.9151	36.22
3.9984	36.43
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4.165	36.85
4.2483	37.07
4.3316	37.29
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4.6648	38.2
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4.998	39.1
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5.2479	39.77
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6.1642	42.2
6.2475	42.44
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6.8306	44.19
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6.9972	44.73
7.0805	45
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11.0789	65.62
11.1622	66.3
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12.0785	75.22
12.1618	76.17
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13.5779	98.21
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15.1606	185.27
15.2439	193.15
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15.5771	232.27
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15.7437	259.25
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16.1602	596.16
16.2435	756.37
16.3268	941.12
16.4101	1232.77
16.4934	1646.61
16.5767	1829.92
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16.8266	1122.4
16.9099	933.92
16.9932	814.22
17.0765	729.8
17.1598	664.94
17.2431	599.27
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17.493	457.87
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17.6596	392.66
17.7429	372.7
17.8262	348.43
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17.9928	306.11
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18.9924	163.12
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19.159	148.85
19.2423	141.38
19.3256	137.61

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19.8254	104.13
19.9087	96.45
19.992	94.21
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20.2419	91.28
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21.9912	47.02
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23.1574	39.56
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23.4906	37.96
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23.9904	35.85
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18.7425	194.53
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18.9091	179.01
18.9924	171.88
19.0757	158.61
19.159	153.19
19.2423	149.53
19.3256	145.52

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19.5755	127.33
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27.4057	10.58
27.489	9.9
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27.6556	8.59
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27.8222	7.4
27.9055	6.91
27.9888	6.42
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28.322	4.64
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28.6552	3.34
28.7385	3.13
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1.9159	56.42
1.9992	57.33
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2.1658	59
2.2491	59.75
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2.499	61.73
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2.7489	63.36
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2.9988	64.73
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3.2487	65.88
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3.4986	66.94
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3.9984	68.97
4.0817	69.31
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4.3316	70.35
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4.4982	71.05
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4.998	73.14
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5.1646	73.84
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13.9111	579.97
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4.998	324.54
5.0813	326.37
5.1646	328.21
5.2479	330.08
5.3312	331.95
5.4145	333.77
5.4978	335.56
5.5811	337.39
5.6644	339.23
5.7477	341.1
5.831	342.97
5.9143	344.87
5.9976	346.74
6.0809	348.66
6.1642	350.58
6.2475	352.54
6.3308	354.5

6.4141	356.5
6.4974	358.49
6.5807	360.51
6.664	362.54
6.7473	364.61
6.8306	366.69
6.9139	368.81
6.9972	370.93
7.0805	373.09
7.1638	375.25
7.2471	377.46
7.3304	379.69
7.4137	381.96
7.497	384.22
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7.6636	388.75
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7.8302	393.42
7.9135	395.82
7.9968	398.22
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8.33	408.27
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8.4966	413.42
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8.6632	418.74
8.7465	421.49
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9.0797	432.86
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10.2459	479.66
10.3292	483.49
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10.6624	499.69
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10.829	508.32
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18.326	1850.07
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18.7425	1495.98
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26.9892	31.49
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27.1558	27.57
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6.1642	91.12
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9.6628	120.5
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9.8294	122.51
9.9127	123.55
9.996	124.61
10.0793	125.7
10.1626	126.8
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10.3292	129.08
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10.6624	133.97
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10.9956	139.34
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11.1622	142.22
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11.3288	145.26
11.4121	146.84
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11.9952	159.2
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12.5783	2.99
12.6616	3.01
12.7449	3.04
12.8282	3.07

12.9115	3.11
12.9948	3.16
13.0781	3.21
13.1614	3.27
13.2447	3.34
13.328	3.4
13.4113	3.48
13.4946	3.55
13.5779	3.64
13.6612	3.72
13.7445	3.82
13.8278	3.92
13.9111	4.03
13.9944	4.14
14.0777	4.27
14.161	4.41
14.2443	4.58
14.3276	4.74
14.4109	4.92
14.4942	5.11
14.5775	5.31
14.6608	5.52
14.7441	5.76
14.8274	6.01
14.9107	6.31
14.994	6.62
15.0773	6.98
15.1606	7.38
15.2439	7.85
15.3272	8.37
15.4105	9.18
15.4938	10.75
15.5771	13.8
15.6604	16.53
15.7437	19.37
15.827	23.44
15.9103	31.33
15.9936	45.09
16.0769	84.53
16.1602	171.4
16.2435	288.1
16.3268	211.45
16.4101	130.78
16.4934	93.19
16.5767	69.1
16.66	54.23
16.7433	43.97
16.8266	34.97
16.9099	29.66
16.9932	25.29
17.0765	21.32
17.1598	18.24
17.2431	15.58
17.3264	12.89
17.4097	10.53
17.493	9.69
17.5763	9.46
17.6596	8.87
17.7429	7.46
17.8262	6.22
17.9095	5.21
17.9928	3.67
18.0761	3.41
18.1594	3.33
18.2427	3.44
18.326	3.49
18.4093	3.46
18.4926	3.41
18.5759	3.35
18.6592	3.28
18.7425	3.22
18.8258	3.15
18.9091	3.08
18.9924	3.02
19.0757	2.96
19.159	2.9
19.2423	2.84
19.3256	2.78

19.4089	2.73
19.4922	2.67
19.5755	2.62
19.6588	2.57
19.7421	2.53
19.8254	2.48
19.9087	2.44
19.992	2.4
20.0753	2.35
20.1586	2.31
20.2419	2.27
20.3252	2.24
20.4085	2.2
20.4918	2.17
20.5751	2.13
20.6584	2.1
20.7417	2.07
20.825	2.04
20.9083	2.01
20.9916	1.98
21.0749	1.96
21.1582	1.93
21.2415	1.91
21.3248	1.88
21.4081	1.86
21.4914	1.83
21.5747	1.81
21.658	1.79
21.7413	1.77
21.8246	1.75
21.9079	1.73
21.9912	1.71
22.0745	1.69
22.1578	1.67
22.2411	1.65
22.3244	1.64
22.4077	1.62
22.491	1.6
22.5743	1.58
22.6576	1.57
22.7409	1.55
22.8242	1.54
22.9075	1.52
22.9908	1.51
23.0741	1.49
23.1574	1.48
23.2407	1.47
23.324	1.45
23.4073	1.44
23.4906	1.43
23.5739	1.41
23.6572	1.4
23.7405	1.39
23.8238	1.38
23.9071	1.37
23.9904	1.36
24.0737	1.32
24.157	1.16
24.2403	.79
24.3236	.54
24.4069	.4
24.4902	.31
24.5735	.24
24.6568	.19
24.7401	.16
24.8234	.13
24.9067	.1
24.99	.08
25.0733	.06
25.1566	.05
25.2399	.04
25.3232	.03
25.4065	.03
25.4898	.02
25.5731	.01
25.6564	.01

0	30.4045
0	0
.0833	.68
.1666	2.33
.2499	4.89
.3332	8.33
.4165	12.77
.4998	19.54
.5831	29.74
.6664	42.95
.7497	55.22
.833	66.98
.9163	76.51
.9996	83.8
1.0829	89.63
1.1662	94.58
1.2495	98.96
1.3328	102.93
1.4161	106.57
1.4994	109.86
1.5827	112.84
1.666	115.73
1.7493	118.3
1.8326	120.67
1.9159	122.99
1.9992	125.07
2.0825	127.13
2.1658	129.07
2.2491	130.96
2.3324	132.8
2.4157	134.48
2.499	136.16
2.5823	137.67
2.6656	139.1
2.7489	140.51
2.8322	141.87
2.9155	143.23
2.9988	144.53
3.0821	145.79
3.1654	147.05
3.2487	148.26
3.332	149.47
3.4153	150.58
3.4986	151.66
3.5819	152.74
3.6652	153.83
3.7485	154.93
3.8318	155.96
3.9151	156.98
3.9984	158.01
4.0817	159.04
4.165	160.08
4.2483	161.05
4.3316	162.01
4.4149	162.98
4.4982	163.96
4.5815	164.93
4.6648	165.86
4.7481	166.77
4.8314	167.7
4.9147	168.63
4.998	169.57
5.0813	170.53
5.1646	171.51
5.2479	172.5
5.3312	173.5
5.4145	174.5
5.4978	175.52
5.5811	176.54
5.6644	177.58
5.7477	178.63
5.831	179.68
5.9143	180.69
5.9976	181.7
6.0809	182.72
6.1642	183.76
6.2475	184.81
6.3308	185.87

6.4141	186.94
6.4974	188.04
6.5807	189.06
6.664	190.11
6.7473	191.16
6.8306	192.23
6.9139	193.32
6.9972	194.42
7.0805	195.53
7.1638	196.67
7.2471	197.81
7.3304	198.98
7.4137	200.16
7.497	201.37
7.5803	202.58
7.6636	203.82
7.7469	205.07
7.8302	206.35
7.9135	207.64
7.9968	208.95
8.0801	210.28
8.1634	211.64
8.2467	213.02
8.33	214.42
8.4133	215.84
8.4966	217.29
8.5799	218.75
8.6632	220.25
8.7465	221.77
8.8298	223.32
8.9131	224.88
8.9964	226.49
9.0797	228.11
9.163	229.78
9.2463	231.46
9.3296	233.18
9.4129	234.93
9.4962	236.72
9.5795	238.53
9.6628	240.39
9.7461	242.27
9.8294	244.2
9.9127	246.15
9.996	248.16
10.0793	250.2
10.1626	252.29
10.2459	254.41
10.3292	256.59
10.4125	258.81
10.4958	261.08
10.5791	263.39
10.6624	265.77
10.7457	268.18
10.829	270.67
10.9123	273.2
10.9956	275.8
11.0789	278.45
11.1622	281.18
11.2455	283.96
11.3288	286.83
11.4121	289.75
11.4954	292.77
11.5787	295.84
11.662	299.02
11.7453	302.26
11.8286	305.61
11.9119	309.03
11.9952	312.58
12.0785	316.18
12.1618	319.87
12.2451	323.62
12.3284	327.47
12.4117	331.39
12.495	335.38
12.5783	339.35
12.6616	343.38
12.7449	347.57
12.8282	351.97

12.9115	356.58
12.9948	361.48
13.0781	366.59
13.1614	371.97
13.2447	377.55
13.328	383.41
13.4113	389.48
13.4946	395.86
13.5779	402.49
13.6612	409.47
13.7445	416.72
13.8278	424.38
13.9111	432.36
13.9944	440.8
14.0777	450.85
14.161	463.21
14.2443	477.7
14.3276	494.46
14.4109	513.62
14.4942	537.85
14.5775	569.08
14.6608	606.86
14.7441	643.94
14.8274	681.45
14.9107	716.16
14.994	748.41
15.0773	779.54
15.1606	811.11
15.2439	843.61
15.3272	878.03
15.4105	912.26
15.4938	946.11
15.5771	980.14
15.6604	1016.21
15.7437	1054.54
15.827	1093.56
15.9103	1134.93
15.9936	1190.81
16.0769	1360.91
16.1602	1585.72
16.2435	1816.71
16.3268	2067.88
16.4101	2366.34
16.4934	2864.71
16.5767	3462.07
16.66	3898.44
16.7433	3720.36
16.8266	3531.88
16.9099	3095.63
16.9932	2668.19
17.0765	2367.37
17.1598	2163.27
17.2431	2008.06
17.3264	1878.75
17.4097	1761.57
17.493	1641.5
17.5763	1529.02
17.6596	1441.41
17.7429	1329.8
17.8262	1241.97
17.9095	1178.35
17.9928	1100.23
18.0761	1056.34
18.1594	1003.01
18.2427	959.4
18.326	919.13
18.4093	866.46
18.4926	833.87
18.5759	782.55
18.6592	746.12
18.7425	721.21
18.8258	693.16
18.9091	672.18
18.9924	643.11
19.0757	620.55
19.159	600.65
19.2423	577.15
19.3256	559.12

19.4089	529.16
19.4922	509.64
19.5755	497.64
19.6588	486.11
19.7421	473.22
19.8254	452.18
19.9087	438.13
19.992	428.52
20.0753	418.88
20.1586	407.65
20.2419	387.84
20.3252	375.85
20.4085	367.99
20.4918	360.12
20.5751	350.61
20.6584	333.76
20.7417	324.18
20.825	318.13
20.9083	312.69
20.9916	307.61
21.0749	303.85
21.1582	299.16
21.2415	294.46
21.3248	289.86
21.4081	285.22
21.4914	280.2
21.5747	275.52
21.658	270.97
21.7413	265.93
21.8246	259.36
21.9079	246.91
21.9912	241.23
22.0745	237.37
22.1578	233.73
22.2411	229.91
22.3244	226.04
22.4077	221.66
22.491	216.51
22.5743	202.27
22.6576	198.61
22.7409	195.54
22.8242	192.77
22.9075	190.04
22.9908	187.48
23.0741	185.04
23.1574	182.72
23.2407	180.48
23.324	178.33
23.4073	176.26
23.4906	174.25
23.5739	172.44
23.6572	170.69
23.7405	168.99
23.8238	167.34
23.9071	165.73
23.9904	164.16
24.0737	161.96
24.157	158.83
24.2403	154.85
24.3236	150.05
24.4069	144.33
24.4902	136.36
24.5735	125.06
24.6568	110.89
24.7401	97.84
24.8234	85.45
24.9067	75.41
24.99	67.75
25.0733	61.63
25.1566	56.46
25.2399	51.94
25.3232	47.87
25.4065	44.19
25.4898	40.92
25.5731	37.99
25.6564	35.19
25.7397	32.76
25.823	30.55

25.9063	28.43
25.9896	26.58
26.0729	24.77
26.1562	23.11
26.2395	21.53
26.3228	20.02
26.4061	18.68
26.4894	17.38
26.5727	16.27
26.656	15.26
26.7393	14.28
26.8226	13.37
26.9059	12.47
26.9892	11.66
27.0725	10.9
27.1558	10.16
27.2391	9.48
27.3224	8.81
27.4057	8.26
27.489	7.75
27.5723	7.26
27.6556	6.76
27.7389	6.28
27.8222	5.87
27.9055	5.48
27.9888	5.1
28.0721	4.73
28.1554	4.36
28.2387	4.07
28.322	3.81
28.4053	3.55
28.4886	3.3
28.5719	3.05
28.6552	2.86
28.7385	2.7
28.8218	2.54
28.9051	2.39
28.9884	2.23
29.0717	2.06
29.155	1.89
29.2383	1.72
29.3216	1.56
29.4049	1.4
29.4882	1.24
29.5715	1.08
29.6548	.92
29.7381	.77
29.8214	.62
29.9047	.53
29.988	.46
30.0713	.38
30.1546	.3
30.2379	.23
30.3212	.15
30.4045	.07

0	35
0	0
1	3562
2	4298.25
3	4625
4	4625
5	4461.75
6	4100.25
7	3764.25
8	3491.5
9	3292.5
10	3157.5
11	3088.75
12	3039
13	3013.5
14	3002
15	2989.75
16	2889.25
17	2690.5
18	2615.75
19	2549.75
20	2484.25
21	2436.25
22	2403.25
23	2382
24	2363.5
25	2353
26	2346.5
27	2343
28	2339.5
29	2332
30	2318.5
31	2302.5
32	2286.5
33	2270.75
34	2254.75
35	2197.25

ATTACHMENT NO. 5

FLO-2D - 100-Year Flood Simulation Summary

SUMMARY.OUT
NEGATIVE VOLUME CONSERVATION (ACRE FEET)
INDICATES EXCESS VOLUME (OUTFLOW + STORAGE > INFLOW)

SUMMARY.OUT FILE
CREATED WITH BASIC VERSION: 2009.06 BUILD NO. 09b-12.10.11

SIMULATION TIME (HOURS)	AVERAGE TIMESTEP (SECONDS)	VOLUME CONSERVATION (ACRE FEET)	PERCENT OF INFLOW
0.081	4.847	-0.000010	0.000001
0.160	3.105	0.000001	0.000000
0.240	2.570	0.000032	0.000004
0.320	2.390	-0.000001	0.000000
0.400	2.260	0.000021	0.000002
0.481	2.539	0.000039	0.000003
0.560	2.356	0.000033	0.000002
0.640	1.416	0.000011	0.000001
0.720	1.070	0.000027	0.000002
0.800	1.070	0.000004	0.000000
0.880	1.070	0.000030	0.000002
0.960	1.027	0.000104	0.000005
1.040	0.927	-0.000004	0.000000
1.120	0.925	0.000035	0.000002
1.200	0.447	0.000125	0.000005
1.280	0.260	0.000077	0.000003
1.360	0.258	0.000062	0.000002
1.440	0.257	0.000054	0.000002
1.520	0.256	0.000073	0.000003
1.600	0.254	0.000132	0.000005
1.680	0.253	0.000090	0.000003
1.760	0.251	0.000094	0.000003
1.840	0.248	0.000164	0.000005
1.920	0.247	-0.000037	0.000001
2.000	0.246	0.000178	0.000005
2.080	0.245	-0.000108	0.000003
2.160	0.244	0.000109	0.000003
2.240	0.243	0.000199	0.000005
2.320	0.243	-0.000129	0.000003
2.400	0.242	-0.000013	0.000000
2.480	0.242	-0.000025	0.000001
2.560	0.241	0.000094	0.000002
2.640	0.241	0.000148	0.000003
2.720	0.240	0.000098	0.000002
2.800	0.239	-0.000152	0.000003
2.880	0.239	0.000023	0.000000
2.960	0.236	-0.000190	0.000004
3.040	0.234	-0.000043	0.000001
3.120	0.234	-0.000004	0.000000
3.200	0.234	-0.000060	0.000001
3.280	0.234	-0.000081	0.000001
3.360	0.234	-0.000197	0.000003
3.440	0.233	0.000091	0.000002
3.520	0.234	-0.000279	0.000005
3.600	0.234	-0.000199	0.000003
3.680	0.234	0.000051	0.000001
3.760	0.233	-0.000206	0.000003
3.840	0.234	-0.000132	0.000002
3.920	0.234	0.000286	0.000004
4.000	0.234	0.000207	0.000003
4.080	0.234	-0.000308	0.000004
4.160	0.235	0.000318	0.000004
4.240	0.236	0.000282	0.000004
4.320	0.238	0.000119	0.000002
4.400	0.239	0.000398	0.000005
4.480	0.239	0.000036	0.000000
4.560	0.239	-0.000150	0.000002
4.640	0.240	0.000318	0.000004
4.720	0.240	-0.000150	0.000002
4.800	0.240	-0.000140	0.000002
4.880	0.241	0.000132	0.000002
4.960	0.241	-0.000319	0.000004
5.040	0.241	0.000375	0.000004
5.120	0.242	-0.000193	0.000002
5.200	0.242	0.000091	0.000001

5.280	0.243	-0.000074	0.000001
5.360	0.244	-0.000065	0.000001
5.440	0.244	-0.000093	0.000001
5.520	0.245	-0.000510	0.000005
5.600	0.245	-0.000005	0.000000
5.680	0.246	-0.000297	0.000003
5.760	0.247	-0.000269	0.000003
5.840	0.247	0.000046	0.000000
5.920	0.248	-0.000159	0.000002
6.000	0.249	0.000458	0.000004
6.080	0.251	-0.000341	0.000003
6.160	0.251	-0.000463	0.000004
6.240	0.252	-0.000022	0.000000
6.320	0.253	0.000628	0.000006
6.400	0.254	0.000397	0.000004
6.480	0.254	0.000305	0.000003
6.560	0.255	0.000058	0.000001
6.640	0.256	0.000247	0.000002
6.720	0.256	-0.000229	0.000002
6.800	0.257	0.000033	0.000000
6.880	0.258	0.000109	0.000001
6.960	0.258	0.000077	0.000001
7.040	0.259	0.000343	0.000003
7.120	0.260	0.000199	0.000002
7.200	0.260	0.000719	0.000006
7.280	0.270	0.000266	0.000002
7.360	2.252	0.000399	0.000003
7.440	2.452	0.000005	0.000000
7.520	2.450	0.000447	0.000004
7.601	2.454	0.000738	0.000006
7.680	2.451	0.000293	0.000002
7.760	2.464	-0.000068	0.000001
7.840	2.458	-0.000074	0.000001
7.920	2.469	-0.000080	0.000001
8.000	2.484	0.000128	0.000001
8.080	2.474	-0.000316	0.000002
8.161	2.477	-0.000422	0.000003
8.241	2.484	-0.000333	0.000002
8.320	2.477	0.000975	0.000007
8.401	2.485	-0.000118	0.000001
8.480	2.496	-0.000632	0.000005
8.560	2.478	-0.000545	0.000004
8.640	2.489	0.000685	0.000005
8.720	2.481	0.000219	0.000002
8.800	2.488	-0.000094	0.000001
8.880	2.497	0.000079	0.000001
8.960	2.499	0.000105	0.000001
9.041	2.498	0.000394	0.000003
9.120	2.501	0.000699	0.000005
9.200	2.503	-0.000321	0.000002
9.280	2.501	-0.000254	0.000002
9.361	2.511	0.000662	0.000004
9.441	2.511	0.001054	0.000007
9.520	2.514	0.000817	0.000005
9.601	2.514	0.000414	0.000003
9.680	2.521	0.000532	0.000003
9.760	2.514	-0.000830	0.000005
9.840	2.519	-0.000066	0.000000
9.920	2.521	-0.000831	0.000005
10.001	2.534	-0.001047	0.000007
10.080	2.519	0.001129	0.000007
10.160	2.531	0.000284	0.000002
10.240	2.525	-0.000473	0.000003
10.320	2.527	-0.000810	0.000005
10.400	2.536	0.000420	0.000003
10.481	2.547	-0.000468	0.000003
10.560	2.535	0.000162	0.000001
10.640	2.542	-0.000222	0.000001
10.721	2.547	-0.000619	0.000004
10.800	2.539	0.000999	0.000006
10.880	2.541	0.000083	0.000000
10.960	2.553	0.000915	0.000005
11.040	2.560	-0.000097	0.000001
11.120	2.548	-0.000463	0.000003

11.200	2.553	-0.000647	0.000004
11.280	2.554	0.000068	0.000000
11.361	2.557	0.000503	0.000003
11.440	2.562	-0.001140	0.000006
11.521	2.556	0.000243	0.000001
11.600	2.563	0.000283	0.000002
11.680	2.572	0.000642	0.000004
11.761	2.580	0.000401	0.000002
11.840	2.599	-0.000283	0.000002
11.920	2.603	0.000069	0.000000
12.000	2.597	-0.001049	0.000006
12.080	2.598	-0.001051	0.000006
12.160	2.604	0.000613	0.000003
12.240	2.597	0.001445	0.000008
12.320	2.598	0.001050	0.000006
12.400	2.600	0.000047	0.000000
12.481	2.603	-0.000548	0.000003
12.561	2.597	-0.001063	0.000006
12.640	2.599	-0.000594	0.000003
12.720	2.603	-0.000392	0.000002
12.800	2.597	0.000005	0.000000
12.881	2.598	0.001051	0.000005
12.960	2.590	-0.000708	0.000004
13.040	2.590	0.001790	0.000009
13.120	2.603	0.000876	0.000004
13.201	2.597	0.000159	0.000001
13.281	2.598	0.000710	0.000004
13.360	2.604	-0.000744	0.000004
13.440	2.597	-0.000520	0.000003
13.520	2.598	-0.000446	0.000002
13.601	2.600	-0.001347	0.000007
13.680	2.600	0.000093	0.000000
13.760	2.598	0.000188	0.000001
13.840	2.600	-0.000321	0.000002
13.921	2.603	0.000837	0.000004
14.001	2.597	-0.000083	0.000000
14.080	2.599	0.000539	0.000003
14.160	2.603	0.001639	0.000008
14.240	2.597	0.001211	0.000006
14.320	2.598	0.000038	0.000000
14.400	2.604	0.000502	0.000002
14.480	2.597	0.000541	0.000002
14.560	2.598	-0.000045	0.000000
14.640	2.600	0.000504	0.000002
14.721	2.603	0.000387	0.000002
14.801	2.597	-0.000830	0.000004
14.880	2.599	0.000150	0.000001
14.960	2.603	-0.000184	0.000001
15.040	2.597	0.000331	0.000001
15.121	2.598	0.000430	0.000002
15.200	2.604	-0.000044	0.000000
15.280	2.597	0.000800	0.000003
15.360	2.570	0.000094	0.000000
15.440	2.596	0.000581	0.000002
15.520	2.598	0.000012	0.000000
15.600	2.600	-0.000315	0.000001
15.681	2.603	0.000402	0.000002
15.760	2.595	0.000620	0.000003
15.840	2.560	0.000455	0.000002
15.921	2.602	0.000905	0.000004
16.001	2.597	0.000793	0.000003
16.080	2.599	0.000688	0.000003
16.161	2.564	0.000269	0.000001
16.241	2.594	0.000388	0.000002
16.320	2.579	0.000138	0.000001
16.400	2.582	0.000739	0.000003
16.481	2.596	-0.001365	0.000005
16.560	1.307	0.000850	0.000003
16.640	0.859	-0.000648	0.000003
16.721	0.986	-0.000131	0.000001
16.800	2.597	-0.000720	0.000003
16.880	2.581	-0.001795	0.000007
16.961	2.578	0.000274	0.000001
17.041	1.447	-0.001000	0.000004

17.120	2.555	-0.000312	0.000001
17.201	2.546	0.000231	0.000001
17.280	2.537	0.000526	0.000002
17.360	2.532	0.000778	0.000003
17.440	2.513	-0.001278	0.000005
17.521	2.504	-0.001356	0.000005
17.601	2.501	-0.000787	0.000003
17.680	2.496	-0.000105	0.000000
17.760	2.441	-0.001445	0.000005
17.841	2.489	-0.000310	0.000001
17.921	2.467	0.001420	0.000005
18.000	2.454	0.000489	0.000002
18.080	2.461	-0.001834	0.000006
18.160	2.494	-0.001355	0.000005
18.240	2.492	0.001778	0.000006
18.320	2.497	-0.002235	0.000007
18.400	2.510	-0.001797	0.000006
18.480	2.479	-0.000801	0.000003
18.560	2.504	0.001438	0.000005
18.640	2.501	-0.001164	0.000004
18.720	2.501	0.001159	0.000004
18.800	2.413	0.000437	0.000001
18.880	2.416	-0.000124	0.000000
18.960	2.498	-0.000420	0.000001
19.040	2.492	-0.000307	0.000001
19.121	2.510	-0.000833	0.000003
19.200	2.499	0.000074	0.000000
19.280	2.484	-0.001653	0.000005
19.361	2.506	-0.000785	0.000002
19.441	2.485	0.000085	0.000000
19.520	2.533	-0.001185	0.000004
19.601	2.503	0.000777	0.000002
19.681	2.504	-0.001493	0.000005
19.760	2.518	0.000395	0.000001
19.840	2.535	0.000218	0.000001
19.920	1.378	0.001151	0.000004
20.000	0.952	0.001500	0.000005
20.080	0.951	0.001573	0.000005
20.160	0.952	-0.000533	0.000002
20.240	0.952	-0.000241	0.000001
20.320	0.951	0.002355	0.000007
20.400	0.952	0.001593	0.000005
20.480	0.951	0.001398	0.000004
20.560	0.952	0.000754	0.000002
20.640	0.951	-0.000300	0.000001
20.720	0.952	-0.001609	0.000005
20.800	0.951	-0.001319	0.000004
20.880	0.952	-0.001875	0.000006
20.960	0.951	-0.000857	0.000003
21.040	0.952	0.002371	0.000007
21.120	0.951	0.001151	0.000003
21.200	0.951	-0.003023	0.000009
21.280	0.952	0.000927	0.000003
21.360	0.951	0.001209	0.000004
21.440	0.952	0.001222	0.000004
21.520	0.951	0.001602	0.000005
21.600	0.952	-0.001462	0.000004
21.680	0.951	0.000791	0.000002
21.760	0.952	0.001245	0.000004
21.840	0.951	0.000684	0.000002
21.920	0.952	-0.001083	0.000003
22.000	0.951	0.002326	0.000007
22.080	0.952	0.001874	0.000005
22.160	0.951	-0.001250	0.000004
22.240	0.952	-0.000726	0.000002
22.320	0.952	-0.000852	0.000002
22.400	0.951	-0.000607	0.000002
22.480	0.952	0.000260	0.000001
22.560	0.951	-0.002774	0.000008
22.640	0.952	-0.000465	0.000001
22.720	0.951	-0.001601	0.000005
22.800	0.952	-0.001068	0.000003
22.880	0.951	-0.000038	0.000000
22.960	0.952	-0.001303	0.000004

23.040	0.951	-0.000932	0.000003
23.120	0.952	0.002550	0.000007
23.200	0.951	0.000240	0.000001
23.280	0.952	0.003028	0.000008
23.360	0.952	0.003017	0.000008
23.440	0.951	0.001808	0.000005
23.520	0.952	-0.002296	0.000006
23.600	0.951	-0.001960	0.000005
23.680	0.952	0.002335	0.000006
23.760	0.951	0.003371	0.000009
23.840	0.952	-0.002676	0.000007
23.920	0.951	-0.001226	0.000003
24.000	0.952	-0.002814	0.000008
24.080	0.951	0.002164	0.000006
24.160	0.952	-0.000791	0.000002
24.240	0.951	0.000307	0.000001
24.320	0.951	-0.000605	0.000002
24.400	0.952	-0.000245	0.000001
24.480	0.951	0.001237	0.000003
24.560	0.952	-0.000210	0.000001
24.640	0.951	-0.001640	0.000004
24.720	0.952	0.000243	0.000001
24.800	0.951	-0.001748	0.000005
24.880	0.952	0.000027	0.000000
24.960	0.951	0.001104	0.000003
25.040	0.952	0.001079	0.000003
25.120	0.951	0.002617	0.000007
25.200	0.952	-0.000099	0.000000
25.280	0.951	-0.000392	0.000001
25.360	0.952	0.000127	0.000000
25.440	0.952	-0.001097	0.000003
25.520	0.951	-0.000770	0.000002
25.600	0.952	0.002089	0.000006
25.680	0.951	0.000469	0.000001
25.760	0.954	0.002271	0.000006
25.840	0.960	-0.000265	0.000001
25.920	0.970	0.001672	0.000004
26.000	0.997	-0.001773	0.000005
26.080	1.004	-0.000511	0.000001
26.160	1.004	-0.000499	0.000001
26.240	1.004	-0.000640	0.000002
26.320	1.004	0.001607	0.000004
26.400	1.004	-0.000606	0.000002
26.480	1.004	0.000365	0.000001
26.560	1.004	0.000312	0.000001
26.640	1.004	-0.001069	0.000003
26.720	1.004	-0.001061	0.000003
26.800	1.003	0.000902	0.000002
26.880	1.004	-0.000633	0.000002
26.960	1.004	0.003726	0.000010
27.040	1.004	0.002674	0.000007
27.120	1.004	0.001546	0.000004
27.200	1.004	0.001673	0.000004
27.280	1.004	-0.000965	0.000002
27.360	1.004	-0.000978	0.000002
27.440	1.004	0.000940	0.000002
27.520	1.004	0.000117	0.000000
27.600	1.004	-0.001078	0.000003
27.680	1.003	-0.000288	0.000001
27.760	1.073	0.004580	0.000012
27.840	2.601	-0.002103	0.000005
27.921	2.600	0.000653	0.000002
28.001	2.602	-0.003280	0.000008
28.080	2.594	-0.001268	0.000003
28.160	2.600	0.001591	0.000004
28.240	2.603	-0.003547	0.000009
28.321	2.597	0.001736	0.000004
28.401	2.598	0.000407	0.000001
28.480	2.604	-0.001455	0.000004
28.560	2.597	-0.000226	0.000001
28.640	2.598	0.000197	0.000000
28.721	2.600	0.000526	0.000001
28.800	2.600	0.001020	0.000003
28.880	2.598	0.000528	0.000001

28.960	2.600	-0.000969	0.000002
29.041	2.603	-0.001100	0.000003
29.121	2.597	-0.000630	0.000002
29.200	2.599	0.000821	0.000002
29.280	2.603	0.003014	0.000007
29.360	2.597	0.001960	0.000005
29.440	2.598	0.001138	0.000003
29.520	2.604	0.001786	0.000004
29.600	2.597	-0.000671	0.000002
29.680	2.598	0.001045	0.000003
29.760	2.600	-0.000009	0.000000
29.841	2.603	0.001921	0.000005
29.921	2.597	0.003108	0.000008
30.000	2.599	-0.002212	0.000005
30.080	2.603	0.002580	0.000006
30.160	2.597	-0.000869	0.000002
30.241	2.598	-0.000355	0.000001
30.320	2.604	0.002897	0.000007
30.400	2.597	-0.002536	0.000006
30.480	2.598	0.001133	0.000003
30.560	2.600	-0.000780	0.000002
30.641	2.603	0.000987	0.000002
30.720	2.595	-0.002145	0.000005
30.800	2.600	-0.002547	0.000006
30.880	2.603	0.000904	0.000002
30.961	2.597	0.001276	0.000003
31.041	2.598	0.000569	0.000001
31.120	2.604	0.002169	0.000005
31.200	2.597	-0.000664	0.000002
31.280	2.598	0.000720	0.000002
31.361	2.600	-0.000958	0.000002
31.440	2.600	0.000191	0.000000
31.520	2.598	0.003615	0.000008
31.600	2.600	0.000223	0.000001
31.681	2.603	-0.001834	0.000004
31.761	2.597	-0.001537	0.000004
31.840	2.599	-0.002297	0.000005
31.920	2.603	-0.003161	0.000007
32.000	2.597	0.000441	0.000001
32.080	2.598	-0.001791	0.000004
32.160	2.604	0.000415	0.000001
32.240	2.597	-0.000325	0.000001
32.320	2.598	0.000674	0.000002
32.400	2.600	-0.001721	0.000004
32.481	2.603	-0.000976	0.000002
32.561	2.597	-0.000909	0.000002
32.640	2.599	-0.000831	0.000002
32.720	2.603	0.000215	0.000000
32.800	2.597	0.001020	0.000002
32.881	2.598	0.001319	0.000003
32.960	2.604	-0.000053	0.000000
33.040	2.597	0.001502	0.000003
33.120	2.598	0.001171	0.000003
33.200	2.600	-0.001993	0.000005
33.281	2.603	0.000934	0.000002
33.361	2.597	-0.000552	0.000001
33.440	2.599	-0.000464	0.000001
33.520	2.603	0.000616	0.000001
33.600	2.597	0.001718	0.000004
33.681	2.598	0.002608	0.000006
33.760	2.604	-0.000762	0.000002
33.840	2.597	-0.001223	0.000003
33.920	2.598	-0.000706	0.000002
34.001	2.600	-0.000292	0.000001
34.081	2.603	-0.000973	0.000002
34.160	2.595	-0.000917	0.000002
34.240	2.600	-0.001531	0.000003
34.320	2.618	-0.000202	0.000000
34.401	2.602	0.001700	0.000004
34.481	2.603	0.000750	0.000002
34.560	2.595	0.000010	0.000000
34.640	2.600	0.000880	0.000002
34.720	2.603	-0.001635	0.000004
34.801	2.597	-0.000071	0.000000

```
     34.881                2.598              0.002853        0.000006
     34.960                2.604              0.002291        0.000005
     35.040                2.597             -0.000873        0.000002
==========================================================================================
=============================================
                     MASS BALANCE   INFLOW - OUTFLOW VOLUME
==========================================================================================
=============================================
                           *** INFLOW (ACRE-FEET) ***

TOTAL POINT RAINFALL:                                 2.5300 INCHES


                                                    WATER

RAINFALL VOLUME                                     2700.46

INFLOW HYDROGRAPH                                  42491.34
                                                  ---------
INFLOW HYDROGRAPHS + RAINFALL                      45191.80

==========================================================================================
=============================================
                           *** OUTFLOW (ACRE-FT) ***


OVERLAND INFILTRATED AND INTERCEPTED WATER      1.39 INCHES


          OVERLAND FLOW                             WATER


WATER LOST TO INFILTRATION & INTERCEPTION          1475.65

FLOODPLAIN STORAGE                                 3661.82

FLOODPLAIN OUTFLOW HYDROGRAPH                     40054.68
                                                  ---------

FLOODPLAIN OUTFLOW, INFILTRATION & STORAGE        45192.14


==========================================================================================
=============================================
                                  *** TOTALS ***


TOTAL OUTFLOW FROM GRID SYSTEM                    40054.68


TOTAL VOLUME OF OUTFLOW AND STORAGE               45192.14


  SURFACE AREA OF INUNDATION REGARDLESS OF THE TIME OF OCCURRENCE:
  (FOR FLOW DEPTHS GREATER THAN THE "TOL" VALUE TYPICALLY 0.1 FT OR 0.03 M)

THE MAXIMUM INUNDATED AREA IS:                        7476.48 ACRES

==========================================================================================
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     COMPUTER RUN TIME IS :  6.22461 HRS

     THIS OUTPUT FILE WAS TERMINATED ON:   9/ 9/2017  AT:  22:29: 1
```

TECHNICAL APPENDIX NO. 1

Tributary Watershed
Unit Hydrograph Calculations
100-Year, 24-Hour Storm Event

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0

Study date 08/10/17

++

San Bernardino County Synthetic Unit Hydrology Method
Manual date - August 1986

Program License Serial Number 6320

164309 - NRG COOLWATER SOLAR FACILITY - DAGGETT, CA
OFFSITE AREA "A"
100-YEAR, 24-HOUR STORM EVENT
BY: JDN, DATE: 08-10-17

Storm Event Year = 100

Antecedent Moisture Condition = 3

English (in-lb) Input Units Used

English Rainfall Data (Inches) Input Values Used

English Units used in output format

Area averaged rainfall intensity isohyetal data:

Sub-Area (Ac.)	Duration (hours)	Isohyetal (In)
Rainfall data for year 100		
1527.33	1	1.29
Rainfall data for year 100		
1527.33	6	2.13
Rainfall data for year 100		
1527.33	24	3.17

++

******** Area-averaged max loss rate, Fm ********

SCS curve No.(AMCII)	SCS curve NO.(AMC 3)	Area (Ac.)	Area Fraction	Fp(Fig C6) (In/Hr)	Ap (dec.)	Fm (In/Hr)
68.5	85.8	1527.33	1.000	0.269	0.985	0.265

Area-averaged adjusted loss rate Fm (In/Hr) = 0.265

********* Area-Averaged low loss rate fraction, Yb **********

Area (Ac.)	Area Fract	SCS CN (AMC2)	SCS CN (AMC3)	S	Pervious Yield Fr
1504.42	0.985	68.5	85.8	1.66	0.566
22.91	0.015	98.0	98.0	0.20	0.927

Area-averaged catchment yield fraction, Y = 0.571
Area-averaged low loss fraction, Yb = 0.429
++
Watercourse length = 29891.00(Ft.)
Length from concentration point to centroid = 13688.00(Ft.)
Elevation difference along watercourse = 2156.00(Ft.)
Mannings friction factor along watercourse = 0.035
Watershed area = 1527.33(Ac.)
Catchment Lag time = 0.754 hours
Unit interval = 5.000 minutes
Unit interval percentage of lag time = 11.0552
Hydrograph baseflow = 0.00(CFS)
Average maximum watershed loss rate(Fm) = 0.265(In/Hr)
Average low loss rate fraction (Yb) = 0.429 (decimal)
VALLEY DEVELOPED S-Graph proportion = 0.000
VALLEY UNDEVELOPED S-Graph proportion = 0.000
FOOTHILL S-Graph proportion = 0.100
MOUNTAIN S-Graph proportion = 0.000
DESERT S-Graph proportion = 0.900

Computed peak 5-minute rainfall = 0.614(In)
Computed peak 30-minute rainfall = 1.050(In)
Specified peak 1-hour rainfall = 1.293(In)
Computed peak 3-hour rainfall = 1.756(In)
Specified peak 6-hour rainfall = 2.131(In)
Specified peak 24-hour rainfall = 3.172(In)

Rainfall depth area reduction factors:
Using a total area of 1527.33(Ac.) (Ref: fig. E-4)

5-minute factor = 0.928 Adjusted rainfall = 0.570(In)
30-minute factor = 0.928 Adjusted rainfall = 0.975(In)
1-hour factor = 0.928 Adjusted rainfall = 1.200(In)
3-hour factor = 0.991 Adjusted rainfall = 1.741(In)
6-hour factor = 0.995 Adjusted rainfall = 2.121(In)
24-hour factor = 0.998 Adjusted rainfall = 3.166(In)

U n i t H y d r o g r a p h
++
Interval Number	'S' Graph Mean values	Unit Hydrograph ((CFS))
	(K = 18471.15 (CFS))	
1	0.508	93.797
2	1.839	245.823
3	3.935	387.252
4	6.805	530.096
5	10.752	728.996

6	17.358	1220.283
7	27.251	1827.257
8	37.024	1805.190
9	45.633	1590.336
10	52.696	1304.516
11	58.036	986.348
12	62.184	766.191
13	65.632	636.904
14	68.611	550.259
15	71.290	494.839
16	73.634	432.918
17	75.690	379.852
18	77.602	353.107
19	79.311	315.618
20	80.785	272.306
21	82.202	261.720
22	83.425	226.032
23	84.622	220.979
24	85.711	201.111
25	86.771	195.780
26	87.723	175.873
27	88.607	163.362
28	89.411	148.440
29	90.080	123.711
30	90.738	121.413
31	91.353	113.560
32	91.958	111.771
33	92.499	99.933
34	93.020	96.353
35	93.512	90.735
36	93.980	86.582
37	94.410	79.340
38	94.763	65.295
39	95.115	64.936
40	95.466	64.936
41	95.814	64.278
42	96.105	53.578
43	96.374	49.825
44	96.644	49.825
45	96.914	49.825
46	97.158	45.194
47	97.346	34.708
48	97.532	34.306
49	97.718	34.306
50	97.901	33.860
51	98.031	24.034
52	98.140	20.012
53	98.248	20.012
54	98.356	20.012
55	98.469	20.767
56	98.592	22.764
57	98.716	22.871
58	98.840	22.871
59	98.963	22.862
60	99.086	22.592
61	99.207	22.462
62	99.329	22.462
63	99.450	22.462
64	99.558	19.934

65	99.623	12.022
66	99.686	11.486
67	99.748	11.486
68	99.810	11.486
69	99.872	11.486
70	99.934	11.486
71	100.000	5.743

Peak Unit Number	Adjusted mass rainfall (In)	Unit rainfall (In)
1	0.5696	0.5696
2	0.7013	0.1317
3	0.7920	0.0907
4	0.8634	0.0714
5	0.9232	0.0598
6	0.9751	0.0519
7	1.0212	0.0462
8	1.0629	0.0417
9	1.1012	0.0382
10	1.1365	0.0354
11	1.1695	0.0330
12	1.2004	0.0309
13	1.2334	0.0329
14	1.2647	0.0313
15	1.2945	0.0299
16	1.3231	0.0286
17	1.3505	0.0274
18	1.3768	0.0264
19	1.4023	0.0254
20	1.4268	0.0245
21	1.4505	0.0237
22	1.4735	0.0230
23	1.4958	0.0223
24	1.5175	0.0217
25	1.5386	0.0211
26	1.5592	0.0205
27	1.5792	0.0200
28	1.5987	0.0195
29	1.6178	0.0191
30	1.6365	0.0187
31	1.6547	0.0182
32	1.6726	0.0179
33	1.6901	0.0175
34	1.7072	0.0171
35	1.7240	0.0168
36	1.7405	0.0165
37	1.7542	0.0136
38	1.7676	0.0134
39	1.7807	0.0131
40	1.7936	0.0129
41	1.8063	0.0127
42	1.8187	0.0125
43	1.8310	0.0122
44	1.8430	0.0120
45	1.8549	0.0118
46	1.8665	0.0117
47	1.8780	0.0115
48	1.8893	0.0113
49	1.9005	0.0111

50	1.9114	0.0110
51	1.9223	0.0108
52	1.9329	0.0107
53	1.9434	0.0105
54	1.9538	0.0104
55	1.9641	0.0102
56	1.9742	0.0101
57	1.9842	0.0100
58	1.9940	0.0099
59	2.0038	0.0097
60	2.0134	0.0096
61	2.0229	0.0095
62	2.0323	0.0094
63	2.0416	0.0093
64	2.0508	0.0092
65	2.0599	0.0091
66	2.0689	0.0090
67	2.0778	0.0089
68	2.0865	0.0088
69	2.0953	0.0087
70	2.1039	0.0086
71	2.1124	0.0085
72	2.1208	0.0084
73	2.1293	0.0085
74	2.1377	0.0084
75	2.1460	0.0083
76	2.1542	0.0082
77	2.1624	0.0082
78	2.1705	0.0081
79	2.1785	0.0080
80	2.1864	0.0079
81	2.1943	0.0079
82	2.2021	0.0078
83	2.2098	0.0077
84	2.2174	0.0077
85	2.2250	0.0076
86	2.2326	0.0075
87	2.2401	0.0075
88	2.2475	0.0074
89	2.2548	0.0074
90	2.2621	0.0073
91	2.2693	0.0072
92	2.2765	0.0072
93	2.2836	0.0071
94	2.2907	0.0071
95	2.2977	0.0070
96	2.3047	0.0070
97	2.3116	0.0069
98	2.3185	0.0069
99	2.3253	0.0068
100	2.3320	0.0068
101	2.3388	0.0067
102	2.3454	0.0067
103	2.3521	0.0066
104	2.3586	0.0066
105	2.3652	0.0065
106	2.3716	0.0065
107	2.3781	0.0064
108	2.3845	0.0064

109	2.3909	0.0064
110	2.3972	0.0063
111	2.4035	0.0063
112	2.4097	0.0062
113	2.4159	0.0062
114	2.4220	0.0062
115	2.4282	0.0061
116	2.4343	0.0061
117	2.4403	0.0060
118	2.4463	0.0060
119	2.4523	0.0060
120	2.4582	0.0059
121	2.4641	0.0059
122	2.4700	0.0059
123	2.4758	0.0058
124	2.4816	0.0058
125	2.4874	0.0058
126	2.4931	0.0057
127	2.4988	0.0057
128	2.5045	0.0057
129	2.5101	0.0056
130	2.5157	0.0056
131	2.5213	0.0056
132	2.5269	0.0055
133	2.5324	0.0055
134	2.5379	0.0055
135	2.5433	0.0055
136	2.5488	0.0054
137	2.5542	0.0054
138	2.5595	0.0054
139	2.5649	0.0053
140	2.5702	0.0053
141	2.5755	0.0053
142	2.5808	0.0053
143	2.5860	0.0052
144	2.5912	0.0052
145	2.5964	0.0052
146	2.6016	0.0052
147	2.6067	0.0051
148	2.6118	0.0051
149	2.6169	0.0051
150	2.6220	0.0051
151	2.6270	0.0050
152	2.6320	0.0050
153	2.6370	0.0050
154	2.6420	0.0050
155	2.6469	0.0049
156	2.6519	0.0049
157	2.6568	0.0049
158	2.6616	0.0049
159	2.6665	0.0049
160	2.6713	0.0048
161	2.6762	0.0048
162	2.6809	0.0048
163	2.6857	0.0048
164	2.6905	0.0048
165	2.6952	0.0047
166	2.6999	0.0047
167	2.7046	0.0047

168	2.7093	0.0047
169	2.7139	0.0047
170	2.7186	0.0046
171	2.7232	0.0046
172	2.7278	0.0046
173	2.7323	0.0046
174	2.7369	0.0046
175	2.7414	0.0045
176	2.7459	0.0045
177	2.7504	0.0045
178	2.7549	0.0045
179	2.7594	0.0045
180	2.7638	0.0044
181	2.7683	0.0044
182	2.7727	0.0044
183	2.7771	0.0044
184	2.7814	0.0044
185	2.7858	0.0044
186	2.7901	0.0043
187	2.7945	0.0043
188	2.7988	0.0043
189	2.8031	0.0043
190	2.8074	0.0043
191	2.8116	0.0043
192	2.8159	0.0042
193	2.8201	0.0042
194	2.8243	0.0042
195	2.8285	0.0042
196	2.8327	0.0042
197	2.8369	0.0042
198	2.8410	0.0042
199	2.8452	0.0041
200	2.8493	0.0041
201	2.8534	0.0041
202	2.8575	0.0041
203	2.8616	0.0041
204	2.8656	0.0041
205	2.8697	0.0041
206	2.8737	0.0040
207	2.8778	0.0040
208	2.8818	0.0040
209	2.8858	0.0040
210	2.8897	0.0040
211	2.8937	0.0040
212	2.8977	0.0040
213	2.9016	0.0039
214	2.9055	0.0039
215	2.9095	0.0039
216	2.9134	0.0039
217	2.9173	0.0039
218	2.9211	0.0039
219	2.9250	0.0039
220	2.9289	0.0039
221	2.9327	0.0038
222	2.9365	0.0038
223	2.9403	0.0038
224	2.9442	0.0038
225	2.9479	0.0038
226	2.9517	0.0038

227	2.9555	0.0038
228	2.9592	0.0038
229	2.9630	0.0037
230	2.9667	0.0037
231	2.9705	0.0037
232	2.9742	0.0037
233	2.9779	0.0037
234	2.9815	0.0037
235	2.9852	0.0037
236	2.9889	0.0037
237	2.9925	0.0037
238	2.9962	0.0036
239	2.9998	0.0036
240	3.0034	0.0036
241	3.0071	0.0036
242	3.0107	0.0036
243	3.0142	0.0036
244	3.0178	0.0036
245	3.0214	0.0036
246	3.0250	0.0036
247	3.0285	0.0035
248	3.0320	0.0035
249	3.0356	0.0035
250	3.0391	0.0035
251	3.0426	0.0035
252	3.0461	0.0035
253	3.0496	0.0035
254	3.0531	0.0035
255	3.0565	0.0035
256	3.0600	0.0035
257	3.0634	0.0034
258	3.0669	0.0034
259	3.0703	0.0034
260	3.0737	0.0034
261	3.0771	0.0034
262	3.0805	0.0034
263	3.0839	0.0034
264	3.0873	0.0034
265	3.0907	0.0034
266	3.0941	0.0034
267	3.0974	0.0034
268	3.1008	0.0033
269	3.1041	0.0033
270	3.1074	0.0033
271	3.1108	0.0033
272	3.1141	0.0033
273	3.1174	0.0033
274	3.1207	0.0033
275	3.1240	0.0033
276	3.1272	0.0033
277	3.1305	0.0033
278	3.1338	0.0033
279	3.1370	0.0033
280	3.1403	0.0032
281	3.1435	0.0032
282	3.1467	0.0032
283	3.1500	0.0032
284	3.1532	0.0032
285	3.1564	0.0032

286	3.1596	0.0032
287	3.1628	0.0032
288	3.1659	0.0032

Unit Period (number)	Unit Rainfall (In)	Unit Soil-Loss (In)	Effective Rainfall (In)
1	0.0032	0.0014	0.0018
2	0.0032	0.0014	0.0018
3	0.0032	0.0014	0.0018
4	0.0032	0.0014	0.0018
5	0.0032	0.0014	0.0018
6	0.0032	0.0014	0.0018
7	0.0033	0.0014	0.0019
8	0.0033	0.0014	0.0019
9	0.0033	0.0014	0.0019
10	0.0033	0.0014	0.0019
11	0.0033	0.0014	0.0019
12	0.0033	0.0014	0.0019
13	0.0033	0.0014	0.0019
14	0.0033	0.0014	0.0019
15	0.0034	0.0014	0.0019
16	0.0034	0.0014	0.0019
17	0.0034	0.0015	0.0019
18	0.0034	0.0015	0.0019
19	0.0034	0.0015	0.0019
20	0.0034	0.0015	0.0020
21	0.0034	0.0015	0.0020
22	0.0034	0.0015	0.0020
23	0.0035	0.0015	0.0020
24	0.0035	0.0015	0.0020
25	0.0035	0.0015	0.0020
26	0.0035	0.0015	0.0020
27	0.0035	0.0015	0.0020
28	0.0035	0.0015	0.0020
29	0.0036	0.0015	0.0020
30	0.0036	0.0015	0.0020
31	0.0036	0.0015	0.0021
32	0.0036	0.0015	0.0021
33	0.0036	0.0016	0.0021
34	0.0036	0.0016	0.0021
35	0.0037	0.0016	0.0021
36	0.0037	0.0016	0.0021
37	0.0037	0.0016	0.0021
38	0.0037	0.0016	0.0021
39	0.0037	0.0016	0.0021
40	0.0037	0.0016	0.0021
41	0.0038	0.0016	0.0021
42	0.0038	0.0016	0.0022
43	0.0038	0.0016	0.0022
44	0.0038	0.0016	0.0022
45	0.0038	0.0016	0.0022
46	0.0038	0.0016	0.0022
47	0.0039	0.0017	0.0022
48	0.0039	0.0017	0.0022
49	0.0039	0.0017	0.0022
50	0.0039	0.0017	0.0022
51	0.0039	0.0017	0.0023

52	0.0040	0.0017	0.0023
53	0.0040	0.0017	0.0023
54	0.0040	0.0017	0.0023
55	0.0040	0.0017	0.0023
56	0.0040	0.0017	0.0023
57	0.0041	0.0017	0.0023
58	0.0041	0.0017	0.0023
59	0.0041	0.0018	0.0023
60	0.0041	0.0018	0.0024
61	0.0042	0.0018	0.0024
62	0.0042	0.0018	0.0024
63	0.0042	0.0018	0.0024
64	0.0042	0.0018	0.0024
65	0.0042	0.0018	0.0024
66	0.0043	0.0018	0.0024
67	0.0043	0.0018	0.0025
68	0.0043	0.0018	0.0025
69	0.0043	0.0019	0.0025
70	0.0044	0.0019	0.0025
71	0.0044	0.0019	0.0025
72	0.0044	0.0019	0.0025
73	0.0044	0.0019	0.0025
74	0.0045	0.0019	0.0026
75	0.0045	0.0019	0.0026
76	0.0045	0.0019	0.0026
77	0.0046	0.0020	0.0026
78	0.0046	0.0020	0.0026
79	0.0046	0.0020	0.0026
80	0.0046	0.0020	0.0026
81	0.0047	0.0020	0.0027
82	0.0047	0.0020	0.0027
83	0.0047	0.0020	0.0027
84	0.0048	0.0020	0.0027
85	0.0048	0.0021	0.0027
86	0.0048	0.0021	0.0028
87	0.0049	0.0021	0.0028
88	0.0049	0.0021	0.0028
89	0.0049	0.0021	0.0028
90	0.0049	0.0021	0.0028
91	0.0050	0.0021	0.0029
92	0.0050	0.0022	0.0029
93	0.0051	0.0022	0.0029
94	0.0051	0.0022	0.0029
95	0.0051	0.0022	0.0029
96	0.0052	0.0022	0.0029
97	0.0052	0.0022	0.0030
98	0.0052	0.0022	0.0030
99	0.0053	0.0023	0.0030
100	0.0053	0.0023	0.0030
101	0.0054	0.0023	0.0031
102	0.0054	0.0023	0.0031
103	0.0055	0.0023	0.0031
104	0.0055	0.0024	0.0031
105	0.0055	0.0024	0.0032
106	0.0056	0.0024	0.0032
107	0.0056	0.0024	0.0032
108	0.0057	0.0024	0.0032
109	0.0057	0.0025	0.0033
110	0.0058	0.0025	0.0033

111	0.0058	0.0025	0.0033
112	0.0059	0.0025	0.0034
113	0.0059	0.0025	0.0034
114	0.0060	0.0026	0.0034
115	0.0060	0.0026	0.0035
116	0.0061	0.0026	0.0035
117	0.0062	0.0026	0.0035
118	0.0062	0.0027	0.0035
119	0.0063	0.0027	0.0036
120	0.0063	0.0027	0.0036
121	0.0064	0.0027	0.0037
122	0.0064	0.0028	0.0037
123	0.0065	0.0028	0.0037
124	0.0066	0.0028	0.0038
125	0.0067	0.0029	0.0038
126	0.0067	0.0029	0.0038
127	0.0068	0.0029	0.0039
128	0.0069	0.0029	0.0039
129	0.0070	0.0030	0.0040
130	0.0070	0.0030	0.0040
131	0.0071	0.0031	0.0041
132	0.0072	0.0031	0.0041
133	0.0073	0.0031	0.0042
134	0.0074	0.0032	0.0042
135	0.0075	0.0032	0.0043
136	0.0075	0.0032	0.0043
137	0.0077	0.0033	0.0044
138	0.0077	0.0033	0.0044
139	0.0079	0.0034	0.0045
140	0.0079	0.0034	0.0045
141	0.0081	0.0035	0.0046
142	0.0082	0.0035	0.0047
143	0.0083	0.0036	0.0047
144	0.0084	0.0036	0.0048
145	0.0084	0.0036	0.0048
146	0.0085	0.0037	0.0049
147	0.0087	0.0037	0.0050
148	0.0088	0.0038	0.0050
149	0.0090	0.0039	0.0051
150	0.0091	0.0039	0.0052
151	0.0093	0.0040	0.0053
152	0.0094	0.0040	0.0054
153	0.0096	0.0041	0.0055
154	0.0097	0.0042	0.0056
155	0.0100	0.0043	0.0057
156	0.0101	0.0043	0.0058
157	0.0104	0.0045	0.0059
158	0.0105	0.0045	0.0060
159	0.0108	0.0046	0.0062
160	0.0110	0.0047	0.0063
161	0.0113	0.0048	0.0065
162	0.0115	0.0049	0.0066
163	0.0118	0.0051	0.0068
164	0.0120	0.0052	0.0069
165	0.0125	0.0053	0.0071
166	0.0127	0.0054	0.0072
167	0.0131	0.0056	0.0075
168	0.0134	0.0057	0.0076
169	0.0165	0.0071	0.0094

170	0.0168	0.0072	0.0096
171	0.0175	0.0075	0.0100
172	0.0179	0.0077	0.0102
173	0.0187	0.0080	0.0107
174	0.0191	0.0082	0.0109
175	0.0200	0.0086	0.0114
176	0.0205	0.0088	0.0117
177	0.0217	0.0093	0.0124
178	0.0223	0.0096	0.0128
179	0.0237	0.0102	0.0136
180	0.0245	0.0105	0.0140
181	0.0264	0.0113	0.0151
182	0.0274	0.0117	0.0157
183	0.0299	0.0128	0.0171
184	0.0313	0.0134	0.0179
185	0.0309	0.0133	0.0177
186	0.0330	0.0141	0.0188
187	0.0382	0.0164	0.0218
188	0.0417	0.0179	0.0238
189	0.0519	0.0221	0.0298
190	0.0598	0.0221	0.0377
191	0.0907	0.0221	0.0687
192	0.1317	0.0221	0.1096
193	0.5696	0.0221	0.5476
194	0.0714	0.0221	0.0493
195	0.0462	0.0198	0.0264
196	0.0354	0.0152	0.0202
197	0.0329	0.0141	0.0188
198	0.0286	0.0122	0.0163
199	0.0254	0.0109	0.0145
200	0.0230	0.0099	0.0131
201	0.0211	0.0090	0.0121
202	0.0195	0.0084	0.0112
203	0.0182	0.0078	0.0104
204	0.0171	0.0074	0.0098
205	0.0136	0.0059	0.0078
206	0.0129	0.0055	0.0074
207	0.0122	0.0052	0.0070
208	0.0117	0.0050	0.0067
209	0.0111	0.0048	0.0064
210	0.0107	0.0046	0.0061
211	0.0102	0.0044	0.0059
212	0.0099	0.0042	0.0056
213	0.0095	0.0041	0.0054
214	0.0092	0.0039	0.0052
215	0.0089	0.0038	0.0051
216	0.0086	0.0037	0.0049
217	0.0085	0.0036	0.0048
218	0.0082	0.0035	0.0047
219	0.0080	0.0034	0.0046
220	0.0078	0.0033	0.0045
221	0.0076	0.0033	0.0043
222	0.0074	0.0032	0.0042
223	0.0072	0.0031	0.0041
224	0.0071	0.0030	0.0040
225	0.0069	0.0030	0.0039
226	0.0068	0.0029	0.0039
227	0.0066	0.0028	0.0038
228	0.0065	0.0028	0.0037

229	0.0064	0.0027	0.0036
230	0.0062	0.0027	0.0036
231	0.0061	0.0026	0.0035
232	0.0060	0.0026	0.0034
233	0.0059	0.0025	0.0034
234	0.0058	0.0025	0.0033
235	0.0057	0.0024	0.0033
236	0.0056	0.0024	0.0032
237	0.0055	0.0024	0.0032
238	0.0054	0.0023	0.0031
239	0.0053	0.0023	0.0031
240	0.0053	0.0023	0.0030
241	0.0052	0.0022	0.0030
242	0.0051	0.0022	0.0029
243	0.0050	0.0022	0.0029
244	0.0050	0.0021	0.0028
245	0.0049	0.0021	0.0028
246	0.0048	0.0021	0.0028
247	0.0048	0.0020	0.0027
248	0.0047	0.0020	0.0027
249	0.0047	0.0020	0.0027
250	0.0046	0.0020	0.0026
251	0.0045	0.0019	0.0026
252	0.0045	0.0019	0.0026
253	0.0044	0.0019	0.0025
254	0.0044	0.0019	0.0025
255	0.0043	0.0019	0.0025
256	0.0043	0.0018	0.0024
257	0.0042	0.0018	0.0024
258	0.0042	0.0018	0.0024
259	0.0041	0.0018	0.0024
260	0.0041	0.0018	0.0023
261	0.0041	0.0017	0.0023
262	0.0040	0.0017	0.0023
263	0.0040	0.0017	0.0023
264	0.0039	0.0017	0.0022
265	0.0039	0.0017	0.0022
266	0.0039	0.0017	0.0022
267	0.0038	0.0016	0.0022
268	0.0038	0.0016	0.0022
269	0.0037	0.0016	0.0021
270	0.0037	0.0016	0.0021
271	0.0037	0.0016	0.0021
272	0.0036	0.0016	0.0021
273	0.0036	0.0015	0.0021
274	0.0036	0.0015	0.0020
275	0.0035	0.0015	0.0020
276	0.0035	0.0015	0.0020
277	0.0035	0.0015	0.0020
278	0.0035	0.0015	0.0020
279	0.0034	0.0015	0.0020
280	0.0034	0.0015	0.0019
281	0.0034	0.0014	0.0019
282	0.0033	0.0014	0.0019
283	0.0033	0.0014	0.0019
284	0.0033	0.0014	0.0019
285	0.0033	0.0014	0.0019
286	0.0032	0.0014	0.0019
287	0.0032	0.0014	0.0018

```
288              0.0032           0.0014              0.0018
----------------------------------------------------------------------
----------------------------------------------------------------------
Total soil rain loss =      1.07(In)
Total effective rainfall =      2.09(In)
Peak flow rate in flood hydrograph =   1600.72(CFS)
--------------------------------------------------------------------------
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                    24 - H O U R    S T O R M
                R u n o f f      H y d r o g r a p h
----------------------------------------------------------------------
            Hydrograph in   5   Minute intervals ((CFS))

----------------------------------------------------------------------
Time(h+m) Volume Ac.Ft   Q(CFS)  0      425.0     850.0    1275.0    1700.0
-----------------------------------------------------------------------
  0+ 5       0.0012      0.17  Q         |         |         |         |
  0+10       0.0054      0.62  Q         |         |         |         |
  0+15       0.0145      1.32  Q         |         |         |         |
  0+20       0.0303      2.29  Q         |         |         |         |
  0+25       0.0553      3.62  Q         |         |         |         |
  0+30       0.0956      5.85  Q         |         |         |         |
  0+35       0.1589      9.20  Q         |         |         |         |
  0+40       0.2451     12.51  Q         |         |         |         |
  0+45       0.3514     15.44  Q         |         |         |         |
  0+50       0.4745     17.87  Q         |         |         |         |
  0+55       0.6104     19.73  Q         |         |         |         |
  1+ 0       0.7564     21.20  Q         |         |         |         |
  1+ 5       0.9109     22.43  Q         |         |         |         |
  1+10       1.0729     23.52  Q         |         |         |         |
  1+15       1.2417     24.51  Q         |         |         |         |
  1+20       1.4166     25.39  Q         |         |         |         |
  1+25       1.5968     26.18  Q         |         |         |         |
  1+30       1.7822     26.92  Q         |         |         |         |
  1+35       1.9723     27.60  Q         |         |         |         |
  1+40       2.1666     28.20  Q         |         |         |         |
  1+45       2.3648     28.79  Q         |         |         |         |
  1+50       2.5667     29.31  Q         |         |         |         |
  1+55       2.7722     29.83  Q         |         |         |         |
  2+ 0       2.9809     30.32  Q         |         |         |         |
  2+ 5       3.1930     30.79  Q         |         |         |         |
  2+10       3.4081     31.24  Q         |         |         |         |
  2+15       3.6262     31.66  Q         |         |         |         |
  2+20       3.8470     32.06  Q         |         |         |         |
  2+25       4.0702     32.41  Q         |         |         |         |
  2+30       4.2959     32.77  Q         |         |         |         |
  2+35       4.5239     33.11  Q         |         |         |         |
  2+40       4.7543     33.45  Q         |         |         |         |
  2+45       4.9869     33.77  Q         |         |         |         |
  2+50       5.2216     34.09  Q         |         |         |         |
  2+55       5.4585     34.40  Q         |         |         |         |
  3+ 0       5.6975     34.70  Q         |         |         |         |
  3+ 5       5.9385     34.99  Q         |         |         |         |
  3+10       6.1814     35.26  Q         |         |         |         |
  3+15       6.4261     35.53  Q         |         |         |         |
  3+20       6.6727     35.80  QV        |         |         |         |
  3+25       6.9211     36.08  QV        |         |         |         |
  3+30       7.1714     36.33  QV        |         |         |         |
  3+35       7.4233     36.58  QV        |         |         |         |
```

3+40	7.6770	36.84	QV				
3+45	7.9325	37.09	QV				
3+50	8.1896	37.34	QV				
3+55	8.4484	37.57	QV				
4+ 0	8.7088	37.81	QV				
4+ 5	8.9708	38.04	QV				
4+10	9.2344	38.28	QV				
4+15	9.4995	38.50	QV				
4+20	9.7662	38.71	QV				
4+25	10.0343	38.93	QV				
4+30	10.3039	39.15	QV				
4+35	10.5751	39.38	QV				
4+40	10.8479	39.61	QV				
4+45	11.1223	39.84	QV				
4+50	11.3983	40.07	QV				
4+55	11.6759	40.31	QV				
5+ 0	11.9552	40.55	QV				
5+ 5	12.2361	40.79	QV				
5+10	12.5187	41.04	QV				
5+15	12.8031	41.28	QV				
5+20	13.0891	41.53	QV				
5+25	13.3767	41.76	Q V				
5+30	13.6659	42.00	Q V				
5+35	13.9568	42.23	Q V				
5+40	14.2493	42.47	Q V				
5+45	14.5435	42.72	QV				
5+50	14.8393	42.96	QV				
5+55	15.1369	43.20	QV				
6+ 0	15.4360	43.43	QV				
6+ 5	15.7367	43.67	QV				
6+10	16.0391	43.90	QV				
6+15	16.3431	44.14	QV				
6+20	16.6488	44.39	QV				
6+25	16.9562	44.63	QV				
6+30	17.2653	44.88	QV				
6+35	17.5762	45.14	QV				
6+40	17.8888	45.40	QV				
6+45	18.2033	45.66	QV				
6+50	18.5195	45.92	QV				
6+55	18.8376	46.19	QV				
7+ 0	19.1576	46.46	QV				
7+ 5	19.4795	46.74	QV				
7+10	19.8033	47.02	QV				
7+15	20.1290	47.30	Q V				
7+20	20.4568	47.59	Q V				
7+25	20.7865	47.88	Q V				
7+30	21.1183	48.18	Q V				
7+35	21.4522	48.48	Q V				
7+40	21.7882	48.78	Q V				
7+45	22.1263	49.10	Q V				
7+50	22.4666	49.41	Q V				
7+55	22.8091	49.73	Q V				
8+ 0	23.1539	50.06	Q V				
8+ 5	23.5009	50.39	Q V				
8+10	23.8502	50.72	Q V				
8+15	24.2019	51.07	Q V				
8+20	24.5560	51.41	Q V				
8+25	24.9125	51.77	Q V				
8+30	25.2715	52.12	Q V				

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 8+35      25.6330     52.49  |Q V      |         |         |         |
 8+40      25.9970     52.86  |Q V      |         |         |         |
 8+45      26.3637     53.24  |Q V      |         |         |         |
 8+50      26.7329     53.62  |Q  V     |         |         |         |
 8+55      27.1049     54.01  |Q  V     |         |         |         |
 9+ 0      27.4797     54.41  |Q  V     |         |         |         |
 9+ 5      27.8572     54.82  |Q  V     |         |         |         |
 9+10      28.2376     55.23  |Q  V     |         |         |         |
 9+15      28.6208     55.65  |Q  V     |         |         |         |
 9+20      29.0070     56.08  |Q  V     |         |         |         |
 9+25      29.3962     56.51  |Q  V     |         |         |         |
 9+30      29.7885     56.96  |Q  V     |         |         |         |
 9+35      30.1839     57.41  |Q  V     |         |         |         |
 9+40      30.5825     57.87  |Q  V     |         |         |         |
 9+45      30.9843     58.34  |Q  V     |         |         |         |
 9+50      31.3894     58.82  |Q  V     |         |         |         |
 9+55      31.7979     59.32  |Q  V     |         |         |         |
10+ 0      32.2099     59.81  |Q  V     |         |         |         |
10+ 5      32.6253     60.33  |Q  V     |         |         |         |
10+10      33.0444     60.85  |Q  V     |         |         |         |
10+15      33.4671     61.38  |Q   V    |         |         |         |
10+20      33.8936     61.92  |Q   V    |         |         |         |
10+25      34.3239     62.48  |Q   V    |         |         |         |
10+30      34.7581     63.05  |Q   V    |         |         |         |
10+35      35.1963     63.63  |Q   V    |         |         |         |
10+40      35.6386     64.22  |Q   V    |         |         |         |
10+45      36.0851     64.83  |Q   V    |         |         |         |
10+50      36.5359     65.45  |Q   V    |         |         |         |
10+55      36.9910     66.09  |Q   V    |         |         |         |
11+ 0      37.4507     66.74  |Q   V    |         |         |         |
11+ 5      37.9149     67.41  |Q   V    |         |         |         |
11+10      38.3839     68.09  |Q   V    |         |         |         |
11+15      38.8577     68.80  |Q   V    |         |         |         |
11+20      39.3364     69.51  |Q   V    |         |         |         |
11+25      39.8203     70.25  |Q   V    |         |         |         |
11+30      40.3093     71.01  |Q    V   |         |         |         |
11+35      40.8038     71.79  |Q    V   |         |         |         |
11+40      41.3037     72.59  |Q    V   |         |         |         |
11+45      41.8092     73.41  |Q    V   |         |         |         |
11+50      42.3206     74.25  |Q    V   |         |         |         |
11+55      42.8380     75.12  |Q    V   |         |         |         |
12+ 0      43.3615     76.02  |Q    V   |         |         |         |
12+ 5      43.8914     76.93  |Q    V   |         |         |         |
12+10      44.4276     77.86  |Q    V   |         |         |         |
12+15      44.9704     78.81  |Q    V   |         |         |         |
12+20      45.5199     79.78  |Q    V   |         |         |         |
12+25      46.0762     80.78  |Q    V   |         |         |         |
12+30      46.6393     81.77  |Q     V  |         |         |         |
12+35      47.2093     82.76  |Q     V  |         |         |         |
12+40      47.7863     83.78  |Q     V  |         |         |         |
12+45      48.3707     84.86  |Q     V  |         |         |         |
12+50      48.9630     85.99  | Q    V  |         |         |         |
12+55      49.5635     87.20  | Q    V  |         |         |         |
13+ 0      50.1728     88.46  | Q    V  |         |         |         |
13+ 5      50.7911     89.78  | Q    V  |         |         |         |
13+10      51.4189     91.16  | Q    V  |         |         |         |
13+15      52.0567     92.60  | Q    V  |         |         |         |
13+20      52.7047     94.10  | Q    V  |         |         |         |
13+25      53.3636     95.67  | Q     V |         |         |         |
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13+30      54.0338     97.31  | Q     V |         |         |         |
13+35      54.7158     99.03  | Q     V |         |         |         |
13+40      55.4101    100.82  | Q     V |         |         |         |
13+45      56.1174    102.70  | Q     V |         |         |         |
13+50      56.8383    104.67  | Q     V |         |         |         |
13+55      57.5736    106.75  | Q     V |         |         |         |
14+ 0      58.3238    108.93  | Q     V |         |         |         |
14+ 5      59.0908    111.37  | Q     V |         |         |         |
14+10      59.8769    114.15  | Q     V |         |         |         |
14+15      60.6848    117.30  | Q      V|         |         |         |
14+20      61.5168    120.81  | Q      V|         |         |         |
14+25      62.3763    124.80  | Q      V|         |         |         |
14+30      63.2695    129.70  |  Q     V|         |         |         |
14+35      64.2044    135.75  |  Q     V|         |         |         |
14+40      65.1825    142.02  |  Q     V|         |         |         |
14+45      66.2038    148.29  |  Q     V|         |         |         |
14+50      67.2676    154.46  |  Q      V         |         |         |
14+55      68.3732    160.54  |  Q      V         |         |         |
15+ 0      69.5212    166.69  |  Q      V         |         |         |
15+ 5      70.7135    173.12  |   Q     V         |         |         |
15+10      71.9527    179.93  |   Q     V         |         |         |
15+15      73.2425    187.28  |   Q     V         |         |         |
15+20      74.5871    195.23  |   Q     |V        |         |         |
15+25      75.9904    203.77  |   Q     |V        |         |         |
15+30      77.4568    212.91  |    Q    |V        |         |         |
15+35      78.9925    222.98  |    Q    |V        |         |         |
15+40      80.6052    234.17  |    Q    | V       |         |         |
15+45      82.3067    247.07  |    Q    | V       |         |         |
15+50      84.1103    261.88  |     Q   | V       |         |         |
15+55      86.0507    281.74  |     Q   | V       |         |         |
16+ 0      88.2090    313.39  |      Q  |  V      |         |         |
16+ 5      90.9686    400.68  |        Q|  V      |         |         |
16+10      94.5673    522.54  |         | Q V     |         |         |
16+15      99.0187    646.33  |         |   VQ    |         |         |
16+20     104.4183    784.03  |         |    V  Q |         |         |
16+25     111.0893    968.63  |         |     V   | Q       |         |
16+30     119.9302   1283.70  |         |       V |         Q         |
16+35     130.9545   1600.72  |         |        V|         |      Q  |
16+40     141.7666   1569.92  |         |         |V        |     Q   |
16+45     151.4994   1413.19  |         |         | V       |  Q      |
16+50     159.8414   1211.27  |         |         |   V   Q |         |
16+55     166.7286   1000.01  |         |         |  Q V    |         |
17+ 0     172.5584    846.49  |         |        Q|    V    |         |
17+ 5     177.6998    746.54  |         |      Q  |     V   |         |
17+10     182.3407    673.86  |         |    Q    |      V  |         |
17+15     186.6064    619.38  |         |   Q     |       V |         |
17+20     190.4967    564.87  |         |  Q      |       V |         |
17+25     194.0608    517.51  |         | Q       |        V|         |
17+30     197.3906    483.48  |         |Q        |        V|         |
17+35     200.4575    445.31  |         Q         |         V         |
17+40     203.2590    406.78  |        Q|         |         V         |
17+45     205.9128    385.33  |        Q|         |         V         |
17+50     208.3556    354.70  |       Q |         |         |V        |
17+55     210.6959    339.81  |      Q  |         |         |V        |
18+ 0     212.8954    319.37  |      Q  |         |         |V        |
18+ 5     215.0027    305.98  |      Q  |         |         | V       |
18+10     216.9747    286.34  |     Q   |         |         | V       |
18+15     218.8366    270.34  |     Q   |         |         | V       |
18+20     220.5842    253.75  |    Q    |         |         |  V      |
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18+25     222.1964    234.09  |    Q    |         |         | V      |
18+30     223.7528    225.99  |    Q    |         |         | V      |
18+35     225.2409    216.06  |    Q    |         |         | V      |
18+40     226.6806    209.05  |   Q     |         |         |  V     |
18+45     228.0425    197.74  |   Q     |         |         |  V     |
18+50     229.3554    190.64  |   Q     |         |         |  V     |
18+55     230.6143    182.80  |   Q     |         |         |  V     |
19+ 0     231.8231    175.51  |   Q     |         |         |  V     |
19+ 5     232.9719    166.81  |  Q      |         |         |  V     |
19+10     234.0448    155.78  |  Q      |         |         |   V    |
19+15     235.0903    151.81  |  Q      |         |         |   V    |
19+20     236.1104    148.12  |  Q      |         |         |   V    |
19+25     237.1007    143.79  |  Q      |         |         |   V    |
19+30     238.0307    135.03  |  Q      |         |         |   V    |
19+35     238.9261    130.02  |  Q      |         |         |   V    |
19+40     239.8008    127.01  | Q       |         |         |    V   |
19+45     240.6528    123.71  | Q       |         |         |    V   |
19+50     241.4657    118.04  | Q       |         |         |    V   |
19+55     242.2240    110.09  | Q       |         |         |    V   |
20+ 0     242.9628    107.28  | Q       |         |         |    V   |
20+ 5     243.6837    104.67  | Q       |         |         |    V   |
20+10     244.3828    101.51  | Q       |         |         |    V   |
20+15     245.0315     94.19  | Q       |         |         |    V   |
20+20     245.6522     90.12  | Q       |         |         |    V   |
20+25     246.2608     88.38  | Q       |         |         |    V   |
20+30     246.8597     86.96  | Q       |         |         |     V  |
20+35     247.4522     86.03  | Q       |         |         |     V  |
20+40     248.0423     85.68  | Q       |         |         |     V  |
20+45     248.6237     84.42  |Q        |         |         |     V  |
20+50     249.1960     83.10  |Q        |         |         |     V  |
20+55     249.7592     81.77  |Q        |         |         |     V  |
21+ 0     250.3124     80.33  |Q        |         |         |     V  |
21+ 5     250.8559     78.92  |Q        |         |         |     V  |
21+10     251.3894     77.46  |Q        |         |         |     V  |
21+15     251.9107     75.69  |Q        |         |         |     V  |
21+20     252.4100     72.51  |Q        |         |         |     V  |
21+25     252.8721     67.10  |Q        |         |         |     V  |
21+30     253.3229     65.46  |Q        |         |         |      V |
21+35     253.7655     64.25  |Q        |         |         |      V |
21+40     254.1997     63.06  |Q        |         |         |      V |
21+45     254.6245     61.68  |Q        |         |         |      V |
21+50     255.0373     59.93  |Q        |         |         |      V |
21+55     255.4193     55.47  |Q        |         |         |      V |
22+ 0     255.7732     51.39  |Q        |         |         |      V |
22+ 5     256.1199     50.34  |Q        |         |         |      V |
22+10     256.4606     49.47  |Q        |         |         |      V |
22+15     256.7958     48.67  |Q        |         |         |      V |
22+20     257.1259     47.92  |Q        |         |         |      V |
22+25     257.4511     47.23  |Q        |         |         |      V |
22+30     257.7718     46.57  |Q        |         |         |      V |
22+35     258.0882     45.94  |Q        |         |         |      V |
22+40     258.4004     45.34  |Q        |         |         |      V |
22+45     258.7087     44.76  |Q        |         |         |      V |
22+50     259.0131     44.21  |Q        |         |         |      V |
22+55     259.3140     43.68  |Q        |         |         |      V |
23+ 0     259.6113     43.18  |Q        |         |         |      V |
23+ 5     259.9054     42.69  |Q        |         |         |       V|
23+10     260.1961     42.22  Q         |         |         |       V|
23+15     260.4838     41.77  Q         |         |         |       V|
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23+20     260.7684     41.33  Q          |          |          |         V|
23+25     261.0501     40.90  Q          |          |          |         V|
23+30     261.3289     40.48  Q          |          |          |         V|
23+35     261.6049     40.07  Q          |          |          |         V|
23+40     261.8781     39.68  Q          |          |          |         V|
23+45     262.1487     39.29  Q          |          |          |         V|
23+50     262.4168     38.92  Q          |          |          |         V|
23+55     262.6822     38.55  Q          |          |          |         V|
24+ 0     262.9453     38.19  Q          |          |          |         V|
24+ 5     263.2047     37.67  Q          |          |          |         V|
24+10     263.4588     36.89  Q          |          |          |         V|
24+15     263.7057     35.86  Q          |          |          |         V|
24+20     263.9438     34.58  Q          |          |          |         V|
24+25     264.1708     32.95  Q          |          |          |         V|
24+30     264.3805     30.46  Q          |          |          |         V|
24+35     264.5657     26.88  Q          |          |          |         V|
24+40     264.7266     23.37  Q          |          |          |         V|
24+45     264.8663     20.28  Q          |          |          |         V|
24+50     264.9885     17.74  Q          |          |          |         V|
24+55     265.0973     15.79  Q          |          |          |         V|
25+ 0     265.1955     14.26  Q          |          |          |         V|
25+ 5     265.2849     12.98  Q          |          |          |         V|
25+10     265.3667     11.87  Q          |          |          |         V|
25+15     265.4415     10.86  Q          |          |          |         V|
25+20     265.5102      9.98  Q          |          |          |         V|
25+25     265.5736      9.20  Q          |          |          |         V|
25+30     265.6320      8.48  Q          |          |          |         V|
25+35     265.6860      7.83  Q          |          |          |         V|
25+40     265.7361      7.27  Q          |          |          |         V|
25+45     265.7824      6.73  Q          |          |          |         V|
25+50     265.8255      6.26  Q          |          |          |         V|
25+55     265.8655      5.80  Q          |          |          |         V|
26+ 0     265.9026      5.39  Q          |          |          |         V|
26+ 5     265.9369      4.98  Q          |          |          |         V|
26+10     265.9688      4.62  Q          |          |          |         V|
26+15     265.9983      4.28  Q          |          |          |         V|
26+20     266.0257      3.98  Q          |          |          |         V|
26+25     266.0513      3.72  Q          |          |          |         V|
26+30     266.0752      3.47  Q          |          |          |         V|
26+35     266.0974      3.23  Q          |          |          |         V|
26+40     266.1180      3.00  Q          |          |          |         V|
26+45     266.1373      2.79  Q          |          |          |         V|
26+50     266.1551      2.59  Q          |          |          |         V|
26+55     266.1717      2.41  Q          |          |          |         V|
27+ 0     266.1870      2.23  Q          |          |          |         V|
27+ 5     266.2013      2.07  Q          |          |          |         V|
27+10     266.2146      1.93  Q          |          |          |         V|
27+15     266.2269      1.79  Q          |          |          |         V|
27+20     266.2384      1.66  Q          |          |          |         V|
27+25     266.2489      1.53  Q          |          |          |         V|
27+30     266.2587      1.42  Q          |          |          |         V|
27+35     266.2678      1.32  Q          |          |          |         V|
27+40     266.2762      1.22  Q          |          |          |         V|
27+45     266.2839      1.12  Q          |          |          |         V|
27+50     266.2909      1.03  Q          |          |          |         V|
27+55     266.2975      0.95  Q          |          |          |         V|
28+ 0     266.3036      0.88  Q          |          |          |         V|
28+ 5     266.3092      0.81  Q          |          |          |         V|
28+10     266.3143      0.75  Q          |          |          |         V|
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   28+15     266.3191      0.70  Q         |         |         |        V|
   28+20     266.3236      0.65  Q         |         |         |        V|
   28+25     266.3279      0.61  Q         |         |         |        V|
   28+30     266.3318      0.57  Q         |         |         |        V|
   28+35     266.3355      0.53  Q         |         |         |        V|
   28+40     266.3388      0.48  Q         |         |         |        V|
   28+45     266.3418      0.44  Q         |         |         |        V|
   28+50     266.3445      0.39  Q         |         |         |        V|
   28+55     266.3469      0.35  Q         |         |         |        V|
   29+ 0     266.3490      0.31  Q         |         |         |        V|
   29+ 5     266.3509      0.26  Q         |         |         |        V|
   29+10     266.3524      0.22  Q         |         |         |        V|
   29+15     266.3536      0.18  Q         |         |         |        V|
   29+20     266.3546      0.14  Q         |         |         |        V|
   29+25     266.3554      0.12  Q         |         |         |        V|
   29+30     266.3560      0.10  Q         |         |         |        V|
   29+35     266.3565      0.07  Q         |         |         |        V|
   29+40     266.3569      0.05  Q         |         |         |        V|
   29+45     266.3571      0.03  Q         |         |         |        V|
   29+50     266.3572      0.01  Q         |         |         |        V|
----------------------------------------------------------------------
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U n i t H y d r o g r a p h A n a l y s i s

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Study date 08/10/17

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San Bernardino County Synthetic Unit Hydrology Method
Manual date - August 1986

Program License Serial Number 6320

164309 - NRG COOLWATER SOLAR FACILITY - DAGGETT, CA
OFFSITE AREA "B"
100-YEAR, 24-HOUR STORM EVENT
BY: JDN, DATE: 08-10-17

Storm Event Year = 100

Antecedent Moisture Condition = 3

English (in-lb) Input Units Used

English Rainfall Data (Inches) Input Values Used

English Units used in output format

Area averaged rainfall intensity isohyetal data:

Sub-Area (Ac.)	Duration (hours)	Isohyetal (In)
Rainfall data for year 100		
1602.41	1	1.28
Rainfall data for year 100		
1602.41	6	2.07
Rainfall data for year 100		
1602.41	24	3.02

++

******** Area-averaged max loss rate, Fm ********

SCS curve No.(AMCII)	SCS curve NO.(AMC 3)	Area (Ac.)	Area Fraction	Fp(Fig C6) (In/Hr)	Ap (dec.)	Fm (In/Hr)
69.0	86.2	1602.41	1.000	0.261	0.979	0.256

Area-averaged adjusted loss rate Fm (In/Hr) = 0.256

********* Area-Averaged low loss rate fraction, Yb **********

Area (Ac.)	Area Fract	SCS CN (AMC2)	SCS CN (AMC3)	S	Pervious Yield Fr
1568.76	0.979	69.0	86.2	1.60	0.562
33.65	0.021	98.0	98.0	0.20	0.923

Area-averaged catchment yield fraction, Y = 0.570
Area-averaged low loss fraction, Yb = 0.430
++
Watercourse length = 27687.00(Ft.)
Length from concentration point to centroid = 11420.00(Ft.)
Elevation difference along watercourse = 1996.00(Ft.)
Mannings friction factor along watercourse = 0.035
Watershed area = 1602.41(Ac.)
Catchment Lag time = 0.684 hours
Unit interval = 5.000 minutes
Unit interval percentage of lag time = 12.1916
Hydrograph baseflow = 0.00(CFS)
Average maximum watershed loss rate(Fm) = 0.256(In/Hr)
Average low loss rate fraction (Yb) = 0.430 (decimal)
VALLEY DEVELOPED S-Graph proportion = 0.000
VALLEY UNDEVELOPED S-Graph proportion = 0.000
FOOTHILL S-Graph proportion = 0.060
MOUNTAIN S-Graph proportion = 0.000
DESERT S-Graph proportion = 0.940

Computed peak 5-minute rainfall = 0.609(In)
Computed peak 30-minute rainfall = 1.043(In)
Specified peak 1-hour rainfall = 1.284(In)
Computed peak 3-hour rainfall = 1.721(In)
Specified peak 6-hour rainfall = 2.071(In)
Specified peak 24-hour rainfall = 3.025(In)

Rainfall depth area reduction factors:
Using a total area of 1602.41(Ac.) (Ref: fig. E-4)

5-minute factor = 0.925 Adjusted rainfall = 0.564(In)
30-minute factor = 0.925 Adjusted rainfall = 0.965(In)
1-hour factor = 0.925 Adjusted rainfall = 1.188(In)
3-hour factor = 0.990 Adjusted rainfall = 1.705(In)
6-hour factor = 0.995 Adjusted rainfall = 2.061(In)
24-hour factor = 0.998 Adjusted rainfall = 3.019(In)

U n i t H y d r o g r a p h
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Interval Number	'S' Graph Mean values	Unit Hydrograph ((CFS))
	(K = 19379.15 (CFS))	
1	0.551	106.697
2	2.101	300.450
3	4.587	481.816
4	8.050	671.050
5	13.540	1063.845

6	22.866	1807.363
7	34.306	2216.966
8	44.053	1888.882
9	51.886	1518.022
10	57.843	1154.348
11	62.367	876.755
12	66.076	718.845
13	69.264	617.701
14	72.098	549.263
15	74.522	469.777
16	76.676	417.340
17	78.664	385.298
18	80.318	320.580
19	81.893	305.156
20	83.249	262.742
21	84.555	253.197
22	85.746	230.658
23	86.897	223.094
24	87.902	194.863
25	88.859	185.406
26	89.638	150.927
27	90.369	141.671
28	91.058	133.585
29	91.731	130.369
30	92.335	117.012
31	92.912	111.964
32	93.453	104.735
33	93.975	101.243
34	94.415	85.228
35	94.814	77.211
36	95.212	77.211
37	95.610	77.139
38	95.954	66.643
39	96.259	59.160
40	96.564	59.160
41	96.870	59.160
42	97.129	50.207
43	97.340	40.828
44	97.550	40.826
45	97.761	40.826
46	97.936	33.947
47	98.057	23.454
48	98.178	23.343
49	98.298	23.343
50	98.425	24.539
51	98.565	27.129
52	98.705	27.218
53	98.845	27.218
54	98.986	27.151
55	99.125	26.948
56	99.264	26.934
57	99.403	26.934
58	99.530	24.736
59	99.608	14.988
60	99.679	13.880
61	99.751	13.880
62	99.822	13.880
63	99.894	13.880
64	100.000	6.940

Peak Unit Number	Adjusted mass rainfall (In)	Unit rainfall (In)
1	0.5635	0.5635
2	0.6938	0.1303
3	0.7835	0.0897
4	0.8541	0.0706
5	0.9133	0.0591
6	0.9646	0.0513
7	1.0102	0.0457
8	1.0515	0.0413
9	1.0894	0.0378
10	1.1243	0.0350
11	1.1570	0.0326
12	1.1876	0.0306
13	1.2193	0.0317
14	1.2494	0.0301
15	1.2781	0.0287
16	1.3055	0.0274
17	1.3318	0.0263
18	1.3571	0.0253
19	1.3815	0.0244
20	1.4050	0.0235
21	1.4278	0.0227
22	1.4498	0.0220
23	1.4712	0.0214
24	1.4919	0.0208
25	1.5121	0.0202
26	1.5318	0.0196
27	1.5509	0.0191
28	1.5696	0.0187
29	1.5878	0.0182
30	1.6056	0.0178
31	1.6231	0.0174
32	1.6401	0.0171
33	1.6568	0.0167
34	1.6732	0.0164
35	1.6892	0.0160
36	1.7050	0.0157
37	1.7178	0.0128
38	1.7303	0.0126
39	1.7427	0.0123
40	1.7548	0.0121
41	1.7667	0.0119
42	1.7783	0.0117
43	1.7898	0.0115
44	1.8011	0.0113
45	1.8122	0.0111
46	1.8231	0.0109
47	1.8339	0.0107
48	1.8444	0.0106
49	1.8549	0.0104
50	1.8651	0.0103
51	1.8753	0.0101
52	1.8852	0.0100
53	1.8951	0.0098
54	1.9048	0.0097
55	1.9144	0.0096
56	1.9238	0.0095

57	1.9332	0.0093
58	1.9424	0.0092
59	1.9515	0.0091
60	1.9604	0.0090
61	1.9693	0.0089
62	1.9781	0.0088
63	1.9868	0.0087
64	1.9953	0.0086
65	2.0038	0.0085
66	2.0122	0.0084
67	2.0205	0.0083
68	2.0287	0.0082
69	2.0368	0.0081
70	2.0448	0.0080
71	2.0528	0.0079
72	2.0606	0.0079
73	2.0685	0.0078
74	2.0762	0.0078
75	2.0839	0.0077
76	2.0916	0.0076
77	2.0991	0.0075
78	2.1066	0.0075
79	2.1140	0.0074
80	2.1213	0.0073
81	2.1286	0.0073
82	2.1358	0.0072
83	2.1429	0.0071
84	2.1500	0.0071
85	2.1570	0.0070
86	2.1640	0.0070
87	2.1709	0.0069
88	2.1777	0.0068
89	2.1845	0.0068
90	2.1913	0.0067
91	2.1980	0.0067
92	2.2046	0.0066
93	2.2112	0.0066
94	2.2177	0.0065
95	2.2242	0.0065
96	2.2306	0.0064
97	2.2370	0.0064
98	2.2433	0.0063
99	2.2496	0.0063
100	2.2558	0.0062
101	2.2620	0.0062
102	2.2681	0.0061
103	2.2742	0.0061
104	2.2803	0.0061
105	2.2863	0.0060
106	2.2923	0.0060
107	2.2982	0.0059
108	2.3041	0.0059
109	2.3100	0.0059
110	2.3158	0.0058
111	2.3216	0.0058
112	2.3273	0.0057
113	2.3330	0.0057
114	2.3387	0.0057
115	2.3444	0.0056

116	2.3499	0.0056
117	2.3555	0.0056
118	2.3610	0.0055
119	2.3665	0.0055
120	2.3720	0.0055
121	2.3774	0.0054
122	2.3828	0.0054
123	2.3882	0.0054
124	2.3935	0.0053
125	2.3988	0.0053
126	2.4041	0.0053
127	2.4093	0.0052
128	2.4145	0.0052
129	2.4197	0.0052
130	2.4249	0.0052
131	2.4300	0.0051
132	2.4351	0.0051
133	2.4402	0.0051
134	2.4452	0.0050
135	2.4502	0.0050
136	2.4552	0.0050
137	2.4602	0.0050
138	2.4651	0.0049
139	2.4700	0.0049
140	2.4749	0.0049
141	2.4798	0.0049
142	2.4846	0.0048
143	2.4894	0.0048
144	2.4942	0.0048
145	2.4989	0.0048
146	2.5037	0.0047
147	2.5084	0.0047
148	2.5131	0.0047
149	2.5177	0.0047
150	2.5224	0.0046
151	2.5270	0.0046
152	2.5316	0.0046
153	2.5362	0.0046
154	2.5407	0.0046
155	2.5453	0.0045
156	2.5498	0.0045
157	2.5543	0.0045
158	2.5587	0.0045
159	2.5632	0.0045
160	2.5676	0.0044
161	2.5720	0.0044
162	2.5764	0.0044
163	2.5808	0.0044
164	2.5852	0.0044
165	2.5895	0.0043
166	2.5938	0.0043
167	2.5981	0.0043
168	2.6024	0.0043
169	2.6066	0.0043
170	2.6109	0.0042
171	2.6151	0.0042
172	2.6193	0.0042
173	2.6235	0.0042
174	2.6277	0.0042

175	2.6318	0.0042
176	2.6359	0.0041
177	2.6401	0.0041
178	2.6442	0.0041
179	2.6482	0.0041
180	2.6523	0.0041
181	2.6564	0.0041
182	2.6604	0.0040
183	2.6644	0.0040
184	2.6684	0.0040
185	2.6724	0.0040
186	2.6764	0.0040
187	2.6803	0.0040
188	2.6843	0.0039
189	2.6882	0.0039
190	2.6921	0.0039
191	2.6960	0.0039
192	2.6999	0.0039
193	2.7038	0.0039
194	2.7076	0.0039
195	2.7114	0.0038
196	2.7153	0.0038
197	2.7191	0.0038
198	2.7229	0.0038
199	2.7267	0.0038
200	2.7304	0.0038
201	2.7342	0.0038
202	2.7379	0.0037
203	2.7416	0.0037
204	2.7454	0.0037
205	2.7491	0.0037
206	2.7527	0.0037
207	2.7564	0.0037
208	2.7601	0.0037
209	2.7637	0.0036
210	2.7674	0.0036
211	2.7710	0.0036
212	2.7746	0.0036
213	2.7782	0.0036
214	2.7818	0.0036
215	2.7854	0.0036
216	2.7889	0.0036
217	2.7925	0.0036
218	2.7960	0.0035
219	2.7995	0.0035
220	2.8031	0.0035
221	2.8066	0.0035
222	2.8101	0.0035
223	2.8135	0.0035
224	2.8170	0.0035
225	2.8205	0.0035
226	2.8239	0.0034
227	2.8273	0.0034
228	2.8308	0.0034
229	2.8342	0.0034
230	2.8376	0.0034
231	2.8410	0.0034
232	2.8444	0.0034
233	2.8477	0.0034

234	2.8511	0.0034
235	2.8545	0.0034
236	2.8578	0.0033
237	2.8611	0.0033
238	2.8644	0.0033
239	2.8678	0.0033
240	2.8711	0.0033
241	2.8743	0.0033
242	2.8776	0.0033
243	2.8809	0.0033
244	2.8842	0.0033
245	2.8874	0.0033
246	2.8907	0.0032
247	2.8939	0.0032
248	2.8971	0.0032
249	2.9003	0.0032
250	2.9035	0.0032
251	2.9067	0.0032
252	2.9099	0.0032
253	2.9131	0.0032
254	2.9163	0.0032
255	2.9194	0.0032
256	2.9226	0.0031
257	2.9257	0.0031
258	2.9288	0.0031
259	2.9320	0.0031
260	2.9351	0.0031
261	2.9382	0.0031
262	2.9413	0.0031
263	2.9444	0.0031
264	2.9474	0.0031
265	2.9505	0.0031
266	2.9536	0.0031
267	2.9566	0.0031
268	2.9597	0.0030
269	2.9627	0.0030
270	2.9657	0.0030
271	2.9688	0.0030
272	2.9718	0.0030
273	2.9748	0.0030
274	2.9778	0.0030
275	2.9808	0.0030
276	2.9838	0.0030
277	2.9867	0.0030
278	2.9897	0.0030
279	2.9927	0.0030
280	2.9956	0.0030
281	2.9985	0.0029
282	3.0015	0.0029
283	3.0044	0.0029
284	3.0073	0.0029
285	3.0102	0.0029
286	3.0132	0.0029
287	3.0160	0.0029
288	3.0189	0.0029

Unit Period (number)	Unit Rainfall (In)	Unit Soil-Loss (In)	Effective Rainfall (In)

1	0.0029	0.0012	0.0016
2	0.0029	0.0012	0.0017
3	0.0029	0.0013	0.0017
4	0.0029	0.0013	0.0017
5	0.0029	0.0013	0.0017
6	0.0029	0.0013	0.0017
7	0.0030	0.0013	0.0017
8	0.0030	0.0013	0.0017
9	0.0030	0.0013	0.0017
10	0.0030	0.0013	0.0017
11	0.0030	0.0013	0.0017
12	0.0030	0.0013	0.0017
13	0.0030	0.0013	0.0017
14	0.0030	0.0013	0.0017
15	0.0031	0.0013	0.0017
16	0.0031	0.0013	0.0017
17	0.0031	0.0013	0.0018
18	0.0031	0.0013	0.0018
19	0.0031	0.0013	0.0018
20	0.0031	0.0013	0.0018
21	0.0031	0.0013	0.0018
22	0.0031	0.0014	0.0018
23	0.0032	0.0014	0.0018
24	0.0032	0.0014	0.0018
25	0.0032	0.0014	0.0018
26	0.0032	0.0014	0.0018
27	0.0032	0.0014	0.0018
28	0.0032	0.0014	0.0018
29	0.0032	0.0014	0.0018
30	0.0033	0.0014	0.0019
31	0.0033	0.0014	0.0019
32	0.0033	0.0014	0.0019
33	0.0033	0.0014	0.0019
34	0.0033	0.0014	0.0019
35	0.0033	0.0014	0.0019
36	0.0033	0.0014	0.0019
37	0.0034	0.0014	0.0019
38	0.0034	0.0015	0.0019
39	0.0034	0.0015	0.0019
40	0.0034	0.0015	0.0019
41	0.0034	0.0015	0.0020
42	0.0034	0.0015	0.0020
43	0.0035	0.0015	0.0020
44	0.0035	0.0015	0.0020
45	0.0035	0.0015	0.0020
46	0.0035	0.0015	0.0020
47	0.0035	0.0015	0.0020
48	0.0035	0.0015	0.0020
49	0.0036	0.0015	0.0020
50	0.0036	0.0015	0.0020
51	0.0036	0.0015	0.0021
52	0.0036	0.0016	0.0021
53	0.0036	0.0016	0.0021
54	0.0036	0.0016	0.0021
55	0.0037	0.0016	0.0021
56	0.0037	0.0016	0.0021
57	0.0037	0.0016	0.0021
58	0.0037	0.0016	0.0021

59	0.0038	0.0016	0.0021
60	0.0038	0.0016	0.0021
61	0.0038	0.0016	0.0022
62	0.0038	0.0016	0.0022
63	0.0038	0.0017	0.0022
64	0.0039	0.0017	0.0022
65	0.0039	0.0017	0.0022
66	0.0039	0.0017	0.0022
67	0.0039	0.0017	0.0022
68	0.0039	0.0017	0.0022
69	0.0040	0.0017	0.0023
70	0.0040	0.0017	0.0023
71	0.0040	0.0017	0.0023
72	0.0040	0.0017	0.0023
73	0.0041	0.0018	0.0023
74	0.0041	0.0018	0.0023
75	0.0041	0.0018	0.0023
76	0.0041	0.0018	0.0024
77	0.0042	0.0018	0.0024
78	0.0042	0.0018	0.0024
79	0.0042	0.0018	0.0024
80	0.0042	0.0018	0.0024
81	0.0043	0.0018	0.0024
82	0.0043	0.0018	0.0024
83	0.0043	0.0019	0.0025
84	0.0044	0.0019	0.0025
85	0.0044	0.0019	0.0025
86	0.0044	0.0019	0.0025
87	0.0045	0.0019	0.0025
88	0.0045	0.0019	0.0025
89	0.0045	0.0019	0.0026
90	0.0045	0.0020	0.0026
91	0.0046	0.0020	0.0026
92	0.0046	0.0020	0.0026
93	0.0046	0.0020	0.0026
94	0.0047	0.0020	0.0027
95	0.0047	0.0020	0.0027
96	0.0047	0.0020	0.0027
97	0.0048	0.0021	0.0027
98	0.0048	0.0021	0.0027
99	0.0049	0.0021	0.0028
100	0.0049	0.0021	0.0028
101	0.0049	0.0021	0.0028
102	0.0050	0.0021	0.0028
103	0.0050	0.0022	0.0029
104	0.0050	0.0022	0.0029
105	0.0051	0.0022	0.0029
106	0.0051	0.0022	0.0029
107	0.0052	0.0022	0.0030
108	0.0052	0.0022	0.0030
109	0.0053	0.0023	0.0030
110	0.0053	0.0023	0.0030
111	0.0054	0.0023	0.0031
112	0.0054	0.0023	0.0031
113	0.0055	0.0024	0.0031
114	0.0055	0.0024	0.0031
115	0.0056	0.0024	0.0032
116	0.0056	0.0024	0.0032
117	0.0057	0.0024	0.0032

118	0.0057	0.0025	0.0033
119	0.0058	0.0025	0.0033
120	0.0058	0.0025	0.0033
121	0.0059	0.0025	0.0034
122	0.0059	0.0026	0.0034
123	0.0060	0.0026	0.0034
124	0.0061	0.0026	0.0035
125	0.0061	0.0026	0.0035
126	0.0062	0.0027	0.0035
127	0.0063	0.0027	0.0036
128	0.0063	0.0027	0.0036
129	0.0064	0.0028	0.0037
130	0.0065	0.0028	0.0037
131	0.0066	0.0028	0.0037
132	0.0066	0.0029	0.0038
133	0.0067	0.0029	0.0038
134	0.0068	0.0029	0.0039
135	0.0069	0.0030	0.0039
136	0.0070	0.0030	0.0040
137	0.0071	0.0030	0.0040
138	0.0071	0.0031	0.0041
139	0.0073	0.0031	0.0041
140	0.0073	0.0032	0.0042
141	0.0075	0.0032	0.0043
142	0.0075	0.0032	0.0043
143	0.0077	0.0033	0.0044
144	0.0078	0.0033	0.0044
145	0.0079	0.0034	0.0045
146	0.0079	0.0034	0.0045
147	0.0081	0.0035	0.0046
148	0.0082	0.0035	0.0047
149	0.0084	0.0036	0.0048
150	0.0085	0.0036	0.0048
151	0.0087	0.0037	0.0049
152	0.0088	0.0038	0.0050
153	0.0090	0.0039	0.0051
154	0.0091	0.0039	0.0052
155	0.0093	0.0040	0.0053
156	0.0095	0.0041	0.0054
157	0.0097	0.0042	0.0055
158	0.0098	0.0042	0.0056
159	0.0101	0.0044	0.0058
160	0.0103	0.0044	0.0059
161	0.0106	0.0046	0.0060
162	0.0107	0.0046	0.0061
163	0.0111	0.0048	0.0063
164	0.0113	0.0049	0.0064
165	0.0117	0.0050	0.0067
166	0.0119	0.0051	0.0068
167	0.0123	0.0053	0.0070
168	0.0126	0.0054	0.0072
169	0.0157	0.0068	0.0090
170	0.0160	0.0069	0.0091
171	0.0167	0.0072	0.0095
172	0.0171	0.0073	0.0097
173	0.0178	0.0077	0.0102
174	0.0182	0.0078	0.0104
175	0.0191	0.0082	0.0109
176	0.0196	0.0085	0.0112

177	0.0208	0.0089	0.0118
178	0.0214	0.0092	0.0122
179	0.0227	0.0098	0.0130
180	0.0235	0.0101	0.0134
181	0.0253	0.0109	0.0144
182	0.0263	0.0113	0.0150
183	0.0287	0.0123	0.0163
184	0.0301	0.0130	0.0172
185	0.0306	0.0132	0.0174
186	0.0326	0.0140	0.0186
187	0.0378	0.0163	0.0215
188	0.0413	0.0178	0.0235
189	0.0513	0.0213	0.0300
190	0.0591	0.0213	0.0378
191	0.0897	0.0213	0.0684
192	0.1303	0.0213	0.1089
193	0.5635	0.0213	0.5422
194	0.0706	0.0213	0.0493
195	0.0457	0.0196	0.0260
196	0.0350	0.0151	0.0199
197	0.0317	0.0136	0.0181
198	0.0274	0.0118	0.0156
199	0.0244	0.0105	0.0139
200	0.0220	0.0095	0.0126
201	0.0202	0.0087	0.0115
202	0.0187	0.0080	0.0106
203	0.0174	0.0075	0.0099
204	0.0164	0.0070	0.0093
205	0.0128	0.0055	0.0073
206	0.0121	0.0052	0.0069
207	0.0115	0.0049	0.0065
208	0.0109	0.0047	0.0062
209	0.0104	0.0045	0.0059
210	0.0100	0.0043	0.0057
211	0.0096	0.0041	0.0055
212	0.0092	0.0040	0.0052
213	0.0089	0.0038	0.0051
214	0.0086	0.0037	0.0049
215	0.0083	0.0036	0.0047
216	0.0080	0.0035	0.0046
217	0.0078	0.0034	0.0045
218	0.0076	0.0033	0.0043
219	0.0074	0.0032	0.0042
220	0.0072	0.0031	0.0041
221	0.0070	0.0030	0.0040
222	0.0068	0.0029	0.0039
223	0.0067	0.0029	0.0038
224	0.0065	0.0028	0.0037
225	0.0064	0.0027	0.0036
226	0.0062	0.0027	0.0036
227	0.0061	0.0026	0.0035
228	0.0060	0.0026	0.0034
229	0.0059	0.0025	0.0033
230	0.0057	0.0025	0.0033
231	0.0056	0.0024	0.0032
232	0.0055	0.0024	0.0031
233	0.0054	0.0023	0.0031
234	0.0053	0.0023	0.0030
235	0.0052	0.0023	0.0030

236	0.0052	0.0022	0.0029
237	0.0051	0.0022	0.0029
238	0.0050	0.0021	0.0028
239	0.0049	0.0021	0.0028
240	0.0048	0.0021	0.0028
241	0.0048	0.0020	0.0027
242	0.0047	0.0020	0.0027
243	0.0046	0.0020	0.0026
244	0.0046	0.0020	0.0026
245	0.0045	0.0019	0.0026
246	0.0044	0.0019	0.0025
247	0.0044	0.0019	0.0025
248	0.0043	0.0019	0.0025
249	0.0043	0.0018	0.0024
250	0.0042	0.0018	0.0024
251	0.0042	0.0018	0.0024
252	0.0041	0.0018	0.0023
253	0.0041	0.0017	0.0023
254	0.0040	0.0017	0.0023
255	0.0040	0.0017	0.0023
256	0.0039	0.0017	0.0022
257	0.0039	0.0017	0.0022
258	0.0038	0.0016	0.0022
259	0.0038	0.0016	0.0022
260	0.0037	0.0016	0.0021
261	0.0037	0.0016	0.0021
262	0.0037	0.0016	0.0021
263	0.0036	0.0016	0.0021
264	0.0036	0.0015	0.0020
265	0.0036	0.0015	0.0020
266	0.0035	0.0015	0.0020
267	0.0035	0.0015	0.0020
268	0.0034	0.0015	0.0020
269	0.0034	0.0015	0.0019
270	0.0034	0.0015	0.0019
271	0.0034	0.0014	0.0019
272	0.0033	0.0014	0.0019
273	0.0033	0.0014	0.0019
274	0.0033	0.0014	0.0019
275	0.0032	0.0014	0.0018
276	0.0032	0.0014	0.0018
277	0.0032	0.0014	0.0018
278	0.0031	0.0014	0.0018
279	0.0031	0.0013	0.0018
280	0.0031	0.0013	0.0018
281	0.0031	0.0013	0.0017
282	0.0030	0.0013	0.0017
283	0.0030	0.0013	0.0017
284	0.0030	0.0013	0.0017
285	0.0030	0.0013	0.0017
286	0.0030	0.0013	0.0017
287	0.0029	0.0013	0.0017
288	0.0029	0.0013	0.0017

Total soil rain loss = 1.01(In)
Total effective rainfall = 2.01(In)
Peak flow rate in flood hydrograph = 1829.92(CFS)

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24 - H O U R S T O R M

R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	475.0	950.0	1425.0	1900.0
0+ 5	0.0012	0.18	Q	|	|	|	|
0+10	0.0058	0.67	Q	|	|	|	|
0+15	0.0159	1.47	Q	|	|	|	|
0+20	0.0337	2.58	Q	|	|	|	|
0+25	0.0636	4.34	Q	|	|	|	|
0+30	0.1140	7.33	Q	|	|	|	|
0+35	0.1899	11.01	Q	|	|	|	|
0+40	0.2874	14.16	Q	|	|	|	|
0+45	0.4025	16.71	Q	|	|	|	|
0+50	0.5311	18.68	Q	|	|	|	|
0+55	0.6702	20.19	Q	|	|	|	|
1+ 0	0.8179	21.45	Q	|	|	|	|
1+ 5	0.9732	22.55	Q	|	|	|	|
1+10	1.1354	23.55	Q	|	|	|	|
1+15	1.3035	24.41	Q	|	|	|	|
1+20	1.4770	25.19	Q	|	|	|	|
1+25	1.6556	25.93	Q	|	|	|	|
1+30	1.8385	26.56	Q	|	|	|	|
1+35	2.0256	27.17	Q	|	|	|	|
1+40	2.2164	27.71	Q	|	|	|	|
1+45	2.4109	28.24	Q	|	|	|	|
1+50	2.6087	28.73	Q	|	|	|	|
1+55	2.8099	29.21	Q	|	|	|	|
2+ 0	3.0142	29.65	Q	|	|	|	|
2+ 5	3.2213	30.08	Q	|	|	|	|
2+10	3.4311	30.45	Q	|	|	|	|
2+15	3.6433	30.81	Q	|	|	|	|
2+20	3.8579	31.16	Q	|	|	|	|
2+25	4.0749	31.51	Q	|	|	|	|
2+30	4.2941	31.83	Q	|	|	|	|
2+35	4.5155	32.15	Q	|	|	|	|
2+40	4.7391	32.46	Q	|	|	|	|
2+45	4.9647	32.76	Q	|	|	|	|
2+50	5.1923	33.05	Q	|	|	|	|
2+55	5.4218	33.32	Q	|	|	|	|
3+ 0	5.6531	33.59	Q	|	|	|	|
3+ 5	5.8863	33.86	Q	|	|	|	|
3+10	6.1213	34.12	Q	|	|	|	|
3+15	6.3580	34.37	Q	|	|	|	|
3+20	6.5964	34.62	Q	|	|	|	|
3+25	6.8365	34.87	QV	|	|	|	|
3+30	7.0783	35.11	QV	|	|	|	|
3+35	7.3217	35.34	QV	|	|	|	|
3+40	7.5666	35.56	QV	|	|	|	|
3+45	7.8131	35.79	QV	|	|	|	|
3+50	8.0611	36.01	QV	|	|	|	|
3+55	8.3106	36.22	QV	|	|	|	|
4+ 0	8.5614	36.43	QV	|	|	|	|
4+ 5	8.8138	36.64	QV	|	|	|	|
4+10	9.0675	36.85	QV	|	|	|	|

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4+15       9.3228     37.07  QV        |          |          |          |
4+20       9.5797     37.29  QV        |          |          |          |
4+25       9.8380     37.51  QV        |          |          |          |
4+30      10.0979     37.74  QV        |          |          |          |
4+35      10.3594     37.97  QV        |          |          |          |
4+40      10.6225     38.20  QV        |          |          |          |
4+45      10.8872     38.43  QV        |          |          |          |
4+50      11.1535     38.66  QV        |          |          |          |
4+55      11.4213     38.88  QV        |          |          |          |
5+ 0      11.6906     39.10  QV        |          |          |          |
5+ 5      11.9614     39.32  QV        |          |          |          |
5+10      12.2337     39.55  QV        |          |          |          |
5+15      12.5076     39.77  QV        |          |          |          |
5+20      12.7831     39.99  QV        |          |          |          |
5+25      13.0599     40.20  QV        |          |          |          |
5+30      13.3382     40.41  QV        |          |          |          |
5+35      13.6180     40.62  Q V       |          |          |          |
5+40      13.8992     40.84  Q V       |          |          |          |
5+45      14.1820     41.06  Q V       |          |          |          |
5+50      14.4663     41.28  Q V       |          |          |          |
5+55      14.7522     41.51  Q V       |          |          |          |
6+ 0      15.0396     41.73  Q V       |          |          |          |
6+ 5      15.3286     41.97  Q V       |          |          |          |
6+10      15.6193     42.20  Q V       |          |          |          |
6+15      15.9115     42.44  Q V       |          |          |          |
6+20      16.2055     42.68  Q V       |          |          |          |
6+25      16.5011     42.92  Q V       |          |          |          |
6+30      16.7984     43.17  Q V       |          |          |          |
6+35      17.0974     43.42  Q V       |          |          |          |
6+40      17.3982     43.67  Q V       |          |          |          |
6+45      17.7007     43.93  Q V       |          |          |          |
6+50      18.0051     44.19  Q V       |          |          |          |
6+55      18.3113     44.46  Q V       |          |          |          |
7+ 0      18.6193     44.73  Q V       |          |          |          |
7+ 5      18.9292     45.00  Q V       |          |          |          |
7+10      19.2410     45.28  Q V       |          |          |          |
7+15      19.5548     45.56  Q V       |          |          |          |
7+20      19.8705     45.84  Q V       |          |          |          |
7+25      20.1882     46.13  Q  V      |          |          |          |
7+30      20.5080     46.43  Q  V      |          |          |          |
7+35      20.8298     46.72  Q  V      |          |          |          |
7+40      21.1536     47.03  Q  V      |          |          |          |
7+45      21.4796     47.34  Q  V      |          |          |          |
7+50      21.8078     47.65  |Q V      |          |          |          |
7+55      22.1381     47.97  |Q V      |          |          |          |
8+ 0      22.4707     48.29  |Q V      |          |          |          |
8+ 5      22.8055     48.62  |Q V      |          |          |          |
8+10      23.1427     48.95  |Q V      |          |          |          |
8+15      23.4821     49.29  |Q V      |          |          |          |
8+20      23.8239     49.63  |Q V      |          |          |          |
8+25      24.1682     49.98  |Q V      |          |          |          |
8+30      24.5149     50.34  |Q V      |          |          |          |
8+35      24.8641     50.70  |Q V      |          |          |          |
8+40      25.2158     51.07  |Q V      |          |          |          |
8+45      25.5702     51.45  |Q V      |          |          |          |
8+50      25.9271     51.83  |Q V      |          |          |          |
8+55      26.2868     52.22  |Q V      |          |          |          |
9+ 0      26.6491     52.62  |Q V      |          |          |          |
9+ 5      27.0143     53.02  |Q  V     |          |          |          |
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 9+10      27.3822     53.43  |Q  V     |         |         |         |
 9+15      27.7531     53.85  |Q  V     |         |         |         |
 9+20      28.1269     54.27  |Q  V     |         |         |         |
 9+25      28.5037     54.71  |Q  V     |         |         |         |
 9+30      28.8835     55.15  |Q  V     |         |         |         |
 9+35      29.2665     55.61  |Q  V     |         |         |         |
 9+40      29.6526     56.07  |Q  V     |         |         |         |
 9+45      30.0420     56.54  |Q  V     |         |         |         |
 9+50      30.4346     57.02  |Q  V     |         |         |         |
 9+55      30.8307     57.51  |Q  V     |         |         |         |
10+ 0      31.2302     58.00  |Q  V     |         |         |         |
10+ 5      31.6332     58.52  |Q  V     |         |         |         |
10+10      32.0398     59.04  |Q  V     |         |         |         |
10+15      32.4500     59.57  |Q  V     |         |         |         |
10+20      32.8640     60.11  |Q  V     |         |         |         |
10+25      33.2819     60.67  |Q  V     |         |         |         |
10+30      33.7036     61.24  |Q   V    |         |         |         |
10+35      34.1294     61.82  |Q   V    |         |         |         |
10+40      34.5593     62.42  |Q   V    |         |         |         |
10+45      34.9934     63.03  |Q   V    |         |         |         |
10+50      35.4317     63.65  |Q   V    |         |         |         |
10+55      35.8745     64.29  |Q   V    |         |         |         |
11+ 0      36.3218     64.94  |Q   V    |         |         |         |
11+ 5      36.7737     65.62  |Q   V    |         |         |         |
11+10      37.2303     66.30  |Q   V    |         |         |         |
11+15      37.6918     67.01  |Q   V    |         |         |         |
11+20      38.1583     67.73  |Q   V    |         |         |         |
11+25      38.6299     68.48  |Q   V    |         |         |         |
11+30      39.1068     69.24  |Q   V    |         |         |         |
11+35      39.5890     70.02  |Q   V    |         |         |         |
11+40      40.0768     70.83  |Q   V    |         |         |         |
11+45      40.5704     71.66  |Q    V   |         |         |         |
11+50      41.0697     72.51  |Q    V   |         |         |         |
11+55      41.5752     73.39  |Q    V   |         |         |         |
12+ 0      42.0868     74.29  |Q    V   |         |         |         |
12+ 5      42.6048     75.22  |Q    V   |         |         |         |
12+10      43.1294     76.17  |Q    V   |         |         |         |
12+15      43.6607     77.14  |Q    V   |         |         |         |
12+20      44.1988     78.14  |Q    V   |         |         |         |
12+25      44.7439     79.15  |Q    V   |         |         |         |
12+30      45.2961     80.18  |Q    V   |         |         |         |
12+35      45.8556     81.23  |Q    V   |         |         |         |
12+40      46.4225     82.32  |Q    V   |         |         |         |
12+45      46.9975     83.48  |Q     V  |         |         |         |
12+50      47.5807     84.68  |Q     V  |         |         |         |
12+55      48.1726     85.95  |Q     V  |         |         |         |
13+ 0      48.7736     87.26  |Q     V  |         |         |         |
13+ 5      49.3840     88.64  |Q     V  |         |         |         |
13+10      50.0043     90.06  |Q     V  |         |         |         |
13+15      50.6349     91.56  |Q     V  |         |         |         |
13+20      51.2761     93.11  |Q     V  |         |         |         |
13+25      51.9286     94.74  |Q     V  |         |         |         |
13+30      52.5927     96.43  | Q    V  |         |         |         |
13+35      53.2691     98.21  | Q    V  |         |         |         |
13+40      53.9583    100.07  | Q     V |         |         |         |
13+45      54.6609    102.02  | Q     V |         |         |         |
13+50      55.3776    104.06  | Q     V |         |         |         |
13+55      56.1091    106.22  | Q     V |         |         |         |
14+ 0      56.8562    108.48  | Q     V |         |         |         |
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14+ 5      57.6209    111.04  | Q     V |         |         |         |
14+10      58.4062    114.01  | Q     V |         |         |         |
14+15      59.2149    117.43  | Q     V |         |         |         |
14+20      60.0503    121.30  | Q     V |         |         |         |
14+25      60.9178    125.96  | Q      V|         |         |         |
14+30      61.8267    131.97  | Q      V|         |         |         |
14+35      62.7831    138.88  | Q      V|         |         |         |
14+40      63.7858    145.58  |  Q     V|         |         |         |
14+45      64.8331    152.07  |  Q     V|         |         |         |
14+50      65.9238    158.36  |  Q     V|         |         |         |
14+55      67.0577    164.65  |  Q      V         |         |         |
15+ 0      68.2362    171.12  |  Q      V         |         |         |
15+ 5      69.4619    177.97  |  Q      V         |         |         |
15+10      70.7379    185.27  |  Q      V         |         |         |
15+15      72.0681    193.15  |   Q     V         |         |         |
15+20      73.4574    201.72  |   Q     V         |         |         |
15+25      74.9109    211.06  |   Q     |V        |         |         |
15+30      76.4336    221.09  |   Q     |V        |         |         |
15+35      78.0332    232.27  |   Q     |V        |         |         |
15+40      79.7193    244.82  |    Q    |V        |         |         |
15+45      81.5048    259.25  |    Q    | V       |         |         |
15+50      83.4067    276.15  |    Q    | V       |         |         |
15+55      85.4722    299.92  |     Q   | V       |         |         |
16+ 0      87.8036    338.52  |      Q  |  V      |         |         |
16+ 5      90.8470    441.90  |        Q|  V      |         |         |
16+10      94.9528    596.16  |         | Q V     |         |         |
16+15     100.1620    756.37  |         |   VQ    |         |         |
16+20     106.6435    941.12  |         |    V   Q|         |         |
16+25     115.1336   1232.77  |         |      V  |    Q    |         |
16+30     126.4739   1646.61  |         |       V |         |   Q     |
16+35     139.0766   1829.92  |         |         V         |       Q |
16+40     150.2205   1618.09  |         |         | V       |   Q     |
16+45     159.6255   1365.60  |         |         |  V    Q |         |
16+50     167.3555   1122.40  |         |         |  Q V    |         |
16+55     173.7875    933.92  |         |        Q|    V    |         |
17+ 0     179.3950    814.22  |         |      Q  |     V   |         |
17+ 5     184.4212    729.80  |         |    Q    |      V  |         |
17+10     189.0007    664.94  |         |  Q      |       V |         |
17+15     193.1279    599.27  |         | Q       |       V |         |
17+20     196.9100    549.15  |         |Q        |        V|         |
17+25     200.4226    510.04  |         Q         |        V|         |
17+30     203.5760    457.87  |        Q|         |         V         |
17+35     206.5366    429.87  |        Q|         |         V         |
17+40     209.2408    392.66  |       Q |         |         |V        |
17+45     211.8076    372.70  |      Q  |         |         |V        |
17+50     214.2073    348.43  |      Q  |         |         | V       |
17+55     216.4915    331.66  |     Q   |         |         | V       |
18+ 0     218.5997    306.11  |     Q   |         |         | V       |
18+ 5     220.5933    289.48  |     Q   |         |         | V       |
18+10     222.4047    263.01  |    Q    |         |         |  V      |
18+15     224.1251    249.80  |    Q    |         |         |  V      |
18+20     225.7658    238.23  |    Q    |         |         |  V      |
18+25     227.3444    229.21  |   Q     |         |         |  V      |
18+30     228.8326    216.09  |   Q     |         |         |   V     |
18+35     230.2600    207.25  |   Q     |         |         |   V     |
18+40     231.6213    197.66  |   Q     |         |         |   V     |
18+45     232.9271    189.60  |  Q      |         |         |   V     |
18+50     234.1415    176.34  |  Q      |         |         |   V     |
18+55     235.2962    167.66  |  Q      |         |         |    V    |
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19+ 0     236.4196    163.12  |  Q      |         |         |    V    |
19+ 5     237.5098    158.30  |  Q      |         |         |    V    |
19+10     238.5350    148.85  |  Q      |         |         |    V    |
19+15     239.5086    141.38  | Q       |         |         |    V    |
19+20     240.4564    137.61  | Q       |         |         |    V    |
19+25     241.3759    133.52  | Q       |         |         |     V   |
19+30     242.2388    125.28  | Q       |         |         |     V   |
19+35     243.0474    117.41  | Q       |         |         |     V   |
19+40     243.8339    114.21  | Q       |         |         |     V   |
19+45     244.5968    110.78  | Q       |         |         |     V   |
19+50     245.3140    104.13  | Q       |         |         |     V   |
19+55     245.9782     96.45  | Q       |         |         |     V   |
20+ 0     246.6271     94.21  |Q        |         |         |     V   |
20+ 5     247.2641     92.50  |Q        |         |         |     V   |
20+10     247.8948     91.58  |Q        |         |         |      V  |
20+15     248.5235     91.28  |Q        |         |         |      V  |
20+20     249.1419     89.79  |Q        |         |         |      V  |
20+25     249.7494     88.21  |Q        |         |         |      V  |
20+30     250.3459     86.61  |Q        |         |         |      V  |
20+35     250.9307     84.92  |Q        |         |         |      V  |
20+40     251.5038     83.21  |Q        |         |         |      V  |
20+45     252.0627     81.15  |Q        |         |         |      V  |
20+50     252.5981     77.74  |Q        |         |         |      V  |
20+55     253.0881     71.15  |Q        |         |         |      V  |
21+ 0     253.5628     68.92  |Q        |         |         |      V  |
21+ 5     254.0269     67.40  |Q        |         |         |      V  |
21+10     254.4797     65.73  |Q        |         |         |       V |
21+15     254.9179     63.63  |Q        |         |         |       V |
21+20     255.3193     58.29  |Q        |         |         |       V |
21+25     255.6871     53.41  |Q        |         |         |       V |
21+30     256.0462     52.15  |Q        |         |         |       V |
21+35     256.3984     51.13  |Q        |         |         |       V |
21+40     256.7440     50.19  |Q        |         |         |       V |
21+45     257.0837     49.32  |Q        |         |         |       V |
21+50     257.4177     48.50  |Q        |         |         |       V |
21+55     257.7465     47.74  |Q        |         |         |       V |
22+ 0     258.0704     47.02  Q         |         |         |       V |
22+ 5     258.3895     46.33  Q         |         |         |       V |
22+10     258.7040     45.68  Q         |         |         |       V |
22+15     259.0143     45.05  Q         |         |         |       V |
22+20     259.3204     44.45  Q         |         |         |       V |
22+25     259.6226     43.88  Q         |         |         |       V |
22+30     259.9211     43.34  Q         |         |         |       V |
22+35     260.2160     42.81  Q         |         |         |       V |
22+40     260.5073     42.30  Q         |         |         |       V |
22+45     260.7953     41.81  Q         |         |         |       V |
22+50     261.0800     41.33  Q         |         |         |        V|
22+55     261.3614     40.87  Q         |         |         |        V|
23+ 0     261.6398     40.42  Q         |         |         |        V|
23+ 5     261.9152     39.98  Q         |         |         |        V|
23+10     262.1876     39.56  Q         |         |         |        V|
23+15     262.4571     39.14  Q         |         |         |        V|
23+20     262.7239     38.74  Q         |         |         |        V|
23+25     262.9880     38.35  Q         |         |         |        V|
23+30     263.2495     37.96  Q         |         |         |        V|
23+35     263.5084     37.59  Q         |         |         |        V|
23+40     263.7647     37.22  Q         |         |         |        V|
23+45     264.0186     36.87  Q         |         |         |        V|
23+50     264.2702     36.52  Q         |         |         |        V|
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23+55     264.5194     36.18  Q          |          |          |         V|
24+ 0     264.7663     35.85  Q          |          |          |         V|
24+ 5     265.0098     35.35  Q          |          |          |         V|
24+10     265.2477     34.54  Q          |          |          |         V|
24+15     265.4780     33.45  Q          |          |          |         V|
24+20     265.6988     32.05  Q          |          |          |         V|
24+25     265.9056     30.03  Q          |          |          |         V|
24+30     266.0901     26.80  Q          |          |          |         V|
24+35     266.2480     22.93  Q          |          |          |         V|
24+40     266.3832     19.62  Q          |          |          |         V|
24+45     266.4999     16.96  Q          |          |          |         V|
24+50     266.6026     14.91  Q          |          |          |         V|
24+55     266.6945     13.34  Q          |          |          |         V|
25+ 0     266.7774     12.04  Q          |          |          |         V|
25+ 5     266.8526     10.92  Q          |          |          |         V|
25+10     266.9209      9.92  Q          |          |          |         V|
25+15     266.9833      9.06  Q          |          |          |         V|
25+20     267.0404      8.29  Q          |          |          |         V|
25+25     267.0926      7.58  Q          |          |          |         V|
25+30     267.1407      6.99  Q          |          |          |         V|
25+35     267.1850      6.43  Q          |          |          |         V|
25+40     267.2259      5.94  Q          |          |          |         V|
25+45     267.2635      5.47  Q          |          |          |         V|
25+50     267.2983      5.04  Q          |          |          |         V|
25+55     267.3301      4.63  Q          |          |          |         V|
26+ 0     267.3595      4.27  Q          |          |          |         V|
26+ 5     267.3866      3.93  Q          |          |          |         V|
26+10     267.4117      3.64  Q          |          |          |         V|
26+15     267.4350      3.38  Q          |          |          |         V|
26+20     267.4565      3.13  Q          |          |          |         V|
26+25     267.4764      2.89  Q          |          |          |         V|
26+30     267.4948      2.67  Q          |          |          |         V|
26+35     267.5118      2.47  Q          |          |          |         V|
26+40     267.5275      2.27  Q          |          |          |         V|
26+45     267.5418      2.09  Q          |          |          |         V|
26+50     267.5551      1.93  Q          |          |          |         V|
26+55     267.5674      1.78  Q          |          |          |         V|
27+ 0     267.5787      1.64  Q          |          |          |         V|
27+ 5     267.5891      1.50  Q          |          |          |         V|
27+10     267.5986      1.38  Q          |          |          |         V|
27+15     267.6073      1.27  Q          |          |          |         V|
27+20     267.6153      1.16  Q          |          |          |         V|
27+25     267.6226      1.06  Q          |          |          |         V|
27+30     267.6292      0.96  Q          |          |          |         V|
27+35     267.6354      0.89  Q          |          |          |         V|
27+40     267.6410      0.82  Q          |          |          |         V|
27+45     267.6461      0.74  Q          |          |          |         V|
27+50     267.6508      0.68  Q          |          |          |         V|
27+55     267.6551      0.64  Q          |          |          |         V|
28+ 0     267.6592      0.59  Q          |          |          |         V|
28+ 5     267.6630      0.55  Q          |          |          |         V|
28+10     267.6665      0.50  Q          |          |          |         V|
28+15     267.6696      0.46  Q          |          |          |         V|
28+20     267.6724      0.41  Q          |          |          |         V|
28+25     267.6749      0.36  Q          |          |          |         V|
28+30     267.6770      0.31  Q          |          |          |         V|
28+35     267.6788      0.26  Q          |          |          |         V|
28+40     267.6803      0.22  Q          |          |          |         V|
28+45     267.6815      0.17  Q          |          |          |         V|
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   28+50     267.6824      0.13  Q         |         |         |        V|
   28+55     267.6832      0.10  Q         |         |         |        V|
   29+ 0     267.6837      0.08  Q         |         |         |        V|
   29+ 5     267.6841      0.06  Q         |         |         |        V|
   29+10     267.6843      0.03  Q         |         |         |        V|
   29+15     267.6844      0.01  Q         |         |         |        V|
----------------------------------------------------------------------
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U n i t H y d r o g r a p h A n a l y s i s

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Study date 08/10/17

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San Bernardino County Synthetic Unit Hydrology Method
Manual date - August 1986

Program License Serial Number 6320

164309 - NRG COOLWATER SOLAR FACILITY - DAGGETT, CA
OFFSITE AREA "C"
100-YEAR, 24-HOUR STORM EVENT
BY: JDN, DATE: 08-10-17

Storm Event Year = 100

Antecedent Moisture Condition = 3

English (in-lb) Input Units Used

English Rainfall Data (Inches) Input Values Used

English Units used in output format

Area averaged rainfall intensity isohyetal data:

Sub-Area (Ac.)	Duration (hours)	Isohyetal (In)
Rainfall data for year 100		
1687.33	1	1.30
Rainfall data for year 100		
1687.33	6	2.10
Rainfall data for year 100		
1687.33	24	3.11

++

******** Area-averaged max loss rate, Fm ********

SCS curve No.(AMCII)	SCS curve NO.(AMC 3)	Area (Ac.)	Area Fraction	Fp(Fig C6) (In/Hr)	Ap (dec.)	Fm (In/Hr)
65.1	83.1	1687.33	1.000	0.316	0.990	0.313

Area-averaged adjusted loss rate Fm (In/Hr) = 0.313

********* Area-Averaged low loss rate fraction, Yb **********

Area (Ac.)	Area Fract	SCS CN (AMC2)	SCS CN (AMC3)	S	Pervious Yield Fr
1670.46	0.990	65.1	83.1	2.03	0.496
16.87	0.010	98.0	98.0	0.20	0.925

Area-averaged catchment yield fraction, Y = 0.501
Area-averaged low loss fraction, Yb = 0.499
++
Watercourse length = 28332.00(Ft.)
Length from concentration point to centroid = 13559.00(Ft.)
Elevation difference along watercourse = 1988.00(Ft.)
Mannings friction factor along watercourse = 0.035
Watershed area = 1687.33(Ac.)
Catchment Lag time = 0.740 hours
Unit interval = 5.000 minutes
Unit interval percentage of lag time = 11.2641
Hydrograph baseflow = 0.00(CFS)
Average maximum watershed loss rate(Fm) = 0.313(In/Hr)
Average low loss rate fraction (Yb) = 0.499 (decimal)
VALLEY DEVELOPED S-Graph proportion = 0.000
VALLEY UNDEVELOPED S-Graph proportion = 0.000
FOOTHILL S-Graph proportion = 0.100
MOUNTAIN S-Graph proportion = 0.000
DESERT S-Graph proportion = 0.900

Computed peak 5-minute rainfall = 0.615(In)
Computed peak 30-minute rainfall = 1.053(In)
Specified peak 1-hour rainfall = 1.297(In)
Computed peak 3-hour rainfall = 1.745(In)
Specified peak 6-hour rainfall = 2.104(In)
Specified peak 24-hour rainfall = 3.114(In)

Rainfall depth area reduction factors:
Using a total area of 1687.33(Ac.) (Ref: fig. E-4)

5-minute factor = 0.921 Adjusted rainfall = 0.567(In)
30-minute factor = 0.921 Adjusted rainfall = 0.970(In)
1-hour factor = 0.921 Adjusted rainfall = 1.194(In)
3-hour factor = 0.990 Adjusted rainfall = 1.727(In)
6-hour factor = 0.995 Adjusted rainfall = 2.093(In)
24-hour factor = 0.998 Adjusted rainfall = 3.107(In)

U n i t H y d r o g r a p h
++
Interval Number	'S' Graph Mean values	Unit Hydrograph ((CFS))
	(K = 20406.15 (CFS))	
1	0.517	105.581
2	1.890	279.999
3	4.055	441.936
4	7.028	606.528
5	11.208	853.048

6	18.240	1435.009
7	28.520	2097.674
8	38.313	1998.460
9	46.913	1754.974
10	53.757	1396.431
11	58.916	1052.785
12	62.977	828.805
13	66.371	692.597
14	69.320	601.632
15	71.967	540.234
16	74.265	468.881
17	76.295	414.201
18	78.210	390.788
19	79.827	330.049
20	81.327	306.152
21	82.686	277.223
22	83.916	251.004
23	85.098	241.158
24	86.182	221.236
25	87.232	214.345
26	88.149	187.035
27	89.035	180.856
28	89.760	147.868
29	90.439	138.704
30	91.082	131.227
31	91.704	126.881
32	92.287	118.966
33	92.819	108.540
34	93.337	105.724
35	93.817	97.928
36	94.280	94.547
37	94.654	76.276
38	95.012	73.094
39	95.371	73.094
40	95.729	73.073
41	96.041	63.760
42	96.316	56.085
43	96.591	56.085
44	96.866	56.085
45	97.125	52.822
46	97.320	39.937
47	97.510	38.616
48	97.699	38.616
49	97.887	38.377
50	98.024	28.038
51	98.135	22.526
52	98.245	22.526
53	98.355	22.526
54	98.470	23.391
55	98.596	25.630
56	98.722	25.744
57	98.848	25.744
58	98.974	25.724
59	99.098	25.399
60	99.222	25.284
61	99.346	25.284
62	99.470	25.284
63	99.572	20.767
64	99.636	13.053

65	99.699	12.929
66	99.763	12.929
67	99.826	12.929
68	99.889	12.929
69	99.953	12.929
70	100.000	9.653

Peak Unit Number	Adjusted mass rainfall (In)	Unit rainfall (In)
1	0.5668	0.5668
2	0.6978	0.1310
3	0.7880	0.0903
4	0.8591	0.0710
5	0.9185	0.0595
6	0.9702	0.0516
7	1.0161	0.0459
8	1.0576	0.0415
9	1.0957	0.0380
10	1.1308	0.0352
11	1.1636	0.0328
12	1.1944	0.0308
13	1.2270	0.0325
14	1.2579	0.0309
15	1.2874	0.0295
16	1.3156	0.0282
17	1.3426	0.0271
18	1.3687	0.0260
19	1.3937	0.0251
20	1.4180	0.0242
21	1.4414	0.0234
22	1.4641	0.0227
23	1.4861	0.0220
24	1.5075	0.0214
25	1.5283	0.0208
26	1.5486	0.0203
27	1.5683	0.0198
28	1.5876	0.0193
29	1.6064	0.0188
30	1.6248	0.0184
31	1.6428	0.0180
32	1.6604	0.0176
33	1.6777	0.0172
34	1.6946	0.0169
35	1.7111	0.0166
36	1.7274	0.0163
37	1.7406	0.0132
38	1.7535	0.0129
39	1.7661	0.0127
40	1.7785	0.0124
41	1.7907	0.0122
42	1.8027	0.0120
43	1.8145	0.0118
44	1.8261	0.0116
45	1.8375	0.0114
46	1.8487	0.0112
47	1.8598	0.0110
48	1.8706	0.0109
49	1.8813	0.0107
50	1.8919	0.0106

51	1.9023	0.0104
52	1.9126	0.0103
53	1.9227	0.0101
54	1.9327	0.0100
55	1.9425	0.0098
56	1.9522	0.0097
57	1.9618	0.0096
58	1.9713	0.0095
59	1.9806	0.0094
60	1.9899	0.0092
61	1.9990	0.0091
62	2.0080	0.0090
63	2.0169	0.0089
64	2.0257	0.0088
65	2.0345	0.0087
66	2.0431	0.0086
67	2.0516	0.0085
68	2.0600	0.0084
69	2.0684	0.0083
70	2.0766	0.0083
71	2.0848	0.0082
72	2.0929	0.0081
73	2.1012	0.0082
74	2.1093	0.0082
75	2.1174	0.0081
76	2.1254	0.0080
77	2.1334	0.0079
78	2.1412	0.0079
79	2.1490	0.0078
80	2.1567	0.0077
81	2.1644	0.0077
82	2.1720	0.0076
83	2.1795	0.0075
84	2.1869	0.0075
85	2.1943	0.0074
86	2.2017	0.0073
87	2.2089	0.0073
88	2.2161	0.0072
89	2.2233	0.0072
90	2.2304	0.0071
91	2.2374	0.0070
92	2.2444	0.0070
93	2.2513	0.0069
94	2.2582	0.0069
95	2.2650	0.0068
96	2.2718	0.0068
97	2.2785	0.0067
98	2.2852	0.0067
99	2.2918	0.0066
100	2.2984	0.0066
101	2.3049	0.0065
102	2.3114	0.0065
103	2.3178	0.0064
104	2.3242	0.0064
105	2.3306	0.0063
106	2.3369	0.0063
107	2.3432	0.0063
108	2.3494	0.0062
109	2.3556	0.0062

110	2.3617	0.0061
111	2.3678	0.0061
112	2.3739	0.0061
113	2.3799	0.0060
114	2.3859	0.0060
115	2.3918	0.0059
116	2.3977	0.0059
117	2.4036	0.0059
118	2.4095	0.0058
119	2.4153	0.0058
120	2.4210	0.0058
121	2.4268	0.0057
122	2.4325	0.0057
123	2.4381	0.0057
124	2.4438	0.0056
125	2.4494	0.0056
126	2.4549	0.0056
127	2.4605	0.0055
128	2.4660	0.0055
129	2.4715	0.0055
130	2.4769	0.0054
131	2.4823	0.0054
132	2.4877	0.0054
133	2.4931	0.0054
134	2.4984	0.0053
135	2.5037	0.0053
136	2.5090	0.0053
137	2.5142	0.0052
138	2.5195	0.0052
139	2.5246	0.0052
140	2.5298	0.0052
141	2.5349	0.0051
142	2.5401	0.0051
143	2.5451	0.0051
144	2.5502	0.0051
145	2.5552	0.0050
146	2.5603	0.0050
147	2.5652	0.0050
148	2.5702	0.0050
149	2.5751	0.0049
150	2.5801	0.0049
151	2.5850	0.0049
152	2.5898	0.0049
153	2.5947	0.0048
154	2.5995	0.0048
155	2.6043	0.0048
156	2.6091	0.0048
157	2.6138	0.0048
158	2.6186	0.0047
159	2.6233	0.0047
160	2.6280	0.0047
161	2.6326	0.0047
162	2.6373	0.0047
163	2.6419	0.0046
164	2.6465	0.0046
165	2.6511	0.0046
166	2.6557	0.0046
167	2.6603	0.0046
168	2.6648	0.0045

169	2.6693	0.0045
170	2.6738	0.0045
171	2.6783	0.0045
172	2.6827	0.0045
173	2.6872	0.0044
174	2.6916	0.0044
175	2.6960	0.0044
176	2.7004	0.0044
177	2.7047	0.0044
178	2.7091	0.0043
179	2.7134	0.0043
180	2.7177	0.0043
181	2.7220	0.0043
182	2.7263	0.0043
183	2.7306	0.0043
184	2.7348	0.0042
185	2.7390	0.0042
186	2.7433	0.0042
187	2.7474	0.0042
188	2.7516	0.0042
189	2.7558	0.0042
190	2.7599	0.0041
191	2.7641	0.0041
192	2.7682	0.0041
193	2.7723	0.0041
194	2.7764	0.0041
195	2.7805	0.0041
196	2.7845	0.0041
197	2.7886	0.0040
198	2.7926	0.0040
199	2.7966	0.0040
200	2.8006	0.0040
201	2.8046	0.0040
202	2.8086	0.0040
203	2.8125	0.0040
204	2.8165	0.0039
205	2.8204	0.0039
206	2.8243	0.0039
207	2.8282	0.0039
208	2.8321	0.0039
209	2.8360	0.0039
210	2.8398	0.0039
211	2.8437	0.0038
212	2.8475	0.0038
213	2.8513	0.0038
214	2.8551	0.0038
215	2.8589	0.0038
216	2.8627	0.0038
217	2.8665	0.0038
218	2.8703	0.0038
219	2.8740	0.0037
220	2.8777	0.0037
221	2.8815	0.0037
222	2.8852	0.0037
223	2.8889	0.0037
224	2.8926	0.0037
225	2.8962	0.0037
226	2.8999	0.0037
227	2.9036	0.0037

228	2.9072	0.0036
229	2.9108	0.0036
230	2.9145	0.0036
231	2.9181	0.0036
232	2.9217	0.0036
233	2.9252	0.0036
234	2.9288	0.0036
235	2.9324	0.0036
236	2.9359	0.0036
237	2.9395	0.0035
238	2.9430	0.0035
239	2.9465	0.0035
240	2.9500	0.0035
241	2.9535	0.0035
242	2.9570	0.0035
243	2.9605	0.0035
244	2.9640	0.0035
245	2.9674	0.0035
246	2.9709	0.0034
247	2.9743	0.0034
248	2.9777	0.0034
249	2.9812	0.0034
250	2.9846	0.0034
251	2.9880	0.0034
252	2.9914	0.0034
253	2.9947	0.0034
254	2.9981	0.0034
255	3.0015	0.0034
256	3.0048	0.0034
257	3.0082	0.0033
258	3.0115	0.0033
259	3.0148	0.0033
260	3.0181	0.0033
261	3.0214	0.0033
262	3.0247	0.0033
263	3.0280	0.0033
264	3.0313	0.0033
265	3.0346	0.0033
266	3.0378	0.0033
267	3.0411	0.0033
268	3.0443	0.0032
269	3.0476	0.0032
270	3.0508	0.0032
271	3.0540	0.0032
272	3.0572	0.0032
273	3.0604	0.0032
274	3.0636	0.0032
275	3.0668	0.0032
276	3.0700	0.0032
277	3.0731	0.0032
278	3.0763	0.0032
279	3.0794	0.0032
280	3.0826	0.0031
281	3.0857	0.0031
282	3.0888	0.0031
283	3.0920	0.0031
284	3.0951	0.0031
285	3.0982	0.0031
286	3.1013	0.0031

287	3.1044	0.0031
288	3.1074	0.0031

Unit Period (number)	Unit Rainfall (In)	Unit Soil-Loss (In)	Effective Rainfall (In)
1	0.0031	0.0015	0.0015
2	0.0031	0.0015	0.0015
3	0.0031	0.0015	0.0016
4	0.0031	0.0016	0.0016
5	0.0031	0.0016	0.0016
6	0.0031	0.0016	0.0016
7	0.0032	0.0016	0.0016
8	0.0032	0.0016	0.0016
9	0.0032	0.0016	0.0016
10	0.0032	0.0016	0.0016
11	0.0032	0.0016	0.0016
12	0.0032	0.0016	0.0016
13	0.0032	0.0016	0.0016
14	0.0032	0.0016	0.0016
15	0.0033	0.0016	0.0016
16	0.0033	0.0016	0.0016
17	0.0033	0.0016	0.0016
18	0.0033	0.0016	0.0016
19	0.0033	0.0017	0.0017
20	0.0033	0.0017	0.0017
21	0.0033	0.0017	0.0017
22	0.0033	0.0017	0.0017
23	0.0034	0.0017	0.0017
24	0.0034	0.0017	0.0017
25	0.0034	0.0017	0.0017
26	0.0034	0.0017	0.0017
27	0.0034	0.0017	0.0017
28	0.0034	0.0017	0.0017
29	0.0034	0.0017	0.0017
30	0.0035	0.0017	0.0017
31	0.0035	0.0017	0.0017
32	0.0035	0.0017	0.0017
33	0.0035	0.0018	0.0018
34	0.0035	0.0018	0.0018
35	0.0035	0.0018	0.0018
36	0.0036	0.0018	0.0018
37	0.0036	0.0018	0.0018
38	0.0036	0.0018	0.0018
39	0.0036	0.0018	0.0018
40	0.0036	0.0018	0.0018
41	0.0036	0.0018	0.0018
42	0.0037	0.0018	0.0018
43	0.0037	0.0018	0.0018
44	0.0037	0.0018	0.0018
45	0.0037	0.0019	0.0019
46	0.0037	0.0019	0.0019
47	0.0037	0.0019	0.0019
48	0.0038	0.0019	0.0019
49	0.0038	0.0019	0.0019
50	0.0038	0.0019	0.0019
51	0.0038	0.0019	0.0019
52	0.0038	0.0019	0.0019

53	0.0039	0.0019	0.0019
54	0.0039	0.0019	0.0019
55	0.0039	0.0019	0.0020
56	0.0039	0.0020	0.0020
57	0.0039	0.0020	0.0020
58	0.0040	0.0020	0.0020
59	0.0040	0.0020	0.0020
60	0.0040	0.0020	0.0020
61	0.0040	0.0020	0.0020
62	0.0040	0.0020	0.0020
63	0.0041	0.0020	0.0020
64	0.0041	0.0020	0.0020
65	0.0041	0.0021	0.0021
66	0.0041	0.0021	0.0021
67	0.0042	0.0021	0.0021
68	0.0042	0.0021	0.0021
69	0.0042	0.0021	0.0021
70	0.0042	0.0021	0.0021
71	0.0043	0.0021	0.0021
72	0.0043	0.0021	0.0021
73	0.0043	0.0022	0.0022
74	0.0043	0.0022	0.0022
75	0.0044	0.0022	0.0022
76	0.0044	0.0022	0.0022
77	0.0044	0.0022	0.0022
78	0.0044	0.0022	0.0022
79	0.0045	0.0022	0.0022
80	0.0045	0.0022	0.0022
81	0.0045	0.0023	0.0023
82	0.0046	0.0023	0.0023
83	0.0046	0.0023	0.0023
84	0.0046	0.0023	0.0023
85	0.0047	0.0023	0.0023
86	0.0047	0.0023	0.0023
87	0.0047	0.0024	0.0024
88	0.0047	0.0024	0.0024
89	0.0048	0.0024	0.0024
90	0.0048	0.0024	0.0024
91	0.0048	0.0024	0.0024
92	0.0049	0.0024	0.0024
93	0.0049	0.0025	0.0025
94	0.0049	0.0025	0.0025
95	0.0050	0.0025	0.0025
96	0.0050	0.0025	0.0025
97	0.0051	0.0025	0.0025
98	0.0051	0.0025	0.0025
99	0.0051	0.0026	0.0026
100	0.0052	0.0026	0.0026
101	0.0052	0.0026	0.0026
102	0.0052	0.0026	0.0026
103	0.0053	0.0026	0.0027
104	0.0053	0.0027	0.0027
105	0.0054	0.0027	0.0027
106	0.0054	0.0027	0.0027
107	0.0055	0.0027	0.0027
108	0.0055	0.0028	0.0028
109	0.0056	0.0028	0.0028
110	0.0056	0.0028	0.0028
111	0.0057	0.0028	0.0028

112	0.0057	0.0028	0.0029
113	0.0058	0.0029	0.0029
114	0.0058	0.0029	0.0029
115	0.0059	0.0029	0.0029
116	0.0059	0.0030	0.0030
117	0.0060	0.0030	0.0030
118	0.0060	0.0030	0.0030
119	0.0061	0.0030	0.0031
120	0.0061	0.0031	0.0031
121	0.0062	0.0031	0.0031
122	0.0063	0.0031	0.0031
123	0.0063	0.0032	0.0032
124	0.0064	0.0032	0.0032
125	0.0065	0.0032	0.0032
126	0.0065	0.0033	0.0033
127	0.0066	0.0033	0.0033
128	0.0067	0.0033	0.0033
129	0.0068	0.0034	0.0034
130	0.0068	0.0034	0.0034
131	0.0069	0.0035	0.0035
132	0.0070	0.0035	0.0035
133	0.0071	0.0035	0.0036
134	0.0072	0.0036	0.0036
135	0.0073	0.0036	0.0036
136	0.0073	0.0037	0.0037
137	0.0075	0.0037	0.0037
138	0.0075	0.0038	0.0038
139	0.0077	0.0038	0.0038
140	0.0077	0.0039	0.0039
141	0.0079	0.0039	0.0039
142	0.0079	0.0040	0.0040
143	0.0081	0.0040	0.0040
144	0.0082	0.0041	0.0041
145	0.0081	0.0040	0.0041
146	0.0082	0.0041	0.0041
147	0.0083	0.0042	0.0042
148	0.0084	0.0042	0.0042
149	0.0086	0.0043	0.0043
150	0.0087	0.0044	0.0044
151	0.0089	0.0045	0.0045
152	0.0090	0.0045	0.0045
153	0.0092	0.0046	0.0046
154	0.0094	0.0047	0.0047
155	0.0096	0.0048	0.0048
156	0.0097	0.0049	0.0049
157	0.0100	0.0050	0.0050
158	0.0101	0.0051	0.0051
159	0.0104	0.0052	0.0052
160	0.0106	0.0053	0.0053
161	0.0109	0.0054	0.0054
162	0.0110	0.0055	0.0055
163	0.0114	0.0057	0.0057
164	0.0116	0.0058	0.0058
165	0.0120	0.0060	0.0060
166	0.0122	0.0061	0.0061
167	0.0127	0.0063	0.0063
168	0.0129	0.0064	0.0065
169	0.0163	0.0081	0.0081
170	0.0166	0.0083	0.0083

171	0.0172	0.0086	0.0086
172	0.0176	0.0088	0.0088
173	0.0184	0.0092	0.0092
174	0.0188	0.0094	0.0094
175	0.0198	0.0099	0.0099
176	0.0203	0.0101	0.0101
177	0.0214	0.0107	0.0107
178	0.0220	0.0110	0.0110
179	0.0234	0.0117	0.0117
180	0.0242	0.0121	0.0121
181	0.0260	0.0130	0.0130
182	0.0271	0.0135	0.0135
183	0.0295	0.0147	0.0148
184	0.0309	0.0154	0.0155
185	0.0308	0.0154	0.0154
186	0.0328	0.0164	0.0164
187	0.0380	0.0190	0.0190
188	0.0415	0.0207	0.0208
189	0.0516	0.0258	0.0259
190	0.0595	0.0261	0.0334
191	0.0903	0.0261	0.0641
192	0.1310	0.0261	0.1049
193	0.5668	0.0261	0.5407
194	0.0710	0.0261	0.0449
195	0.0459	0.0229	0.0230
196	0.0352	0.0176	0.0176
197	0.0325	0.0163	0.0163
198	0.0282	0.0141	0.0141
199	0.0251	0.0125	0.0126
200	0.0227	0.0113	0.0114
201	0.0208	0.0104	0.0104
202	0.0193	0.0096	0.0096
203	0.0180	0.0090	0.0090
204	0.0169	0.0084	0.0085
205	0.0132	0.0066	0.0066
206	0.0124	0.0062	0.0062
207	0.0118	0.0059	0.0059
208	0.0112	0.0056	0.0056
209	0.0107	0.0053	0.0054
210	0.0103	0.0051	0.0051
211	0.0098	0.0049	0.0049
212	0.0095	0.0047	0.0047
213	0.0091	0.0046	0.0046
214	0.0088	0.0044	0.0044
215	0.0085	0.0043	0.0043
216	0.0083	0.0041	0.0041
217	0.0082	0.0041	0.0041
218	0.0080	0.0040	0.0040
219	0.0078	0.0039	0.0039
220	0.0076	0.0038	0.0038
221	0.0074	0.0037	0.0037
222	0.0072	0.0036	0.0036
223	0.0070	0.0035	0.0035
224	0.0069	0.0034	0.0034
225	0.0067	0.0034	0.0034
226	0.0066	0.0033	0.0033
227	0.0064	0.0032	0.0032
228	0.0063	0.0031	0.0032
229	0.0062	0.0031	0.0031

230	0.0061	0.0030	0.0030
231	0.0059	0.0030	0.0030
232	0.0058	0.0029	0.0029
233	0.0057	0.0029	0.0029
234	0.0056	0.0028	0.0028
235	0.0055	0.0028	0.0028
236	0.0054	0.0027	0.0027
237	0.0054	0.0027	0.0027
238	0.0053	0.0026	0.0026
239	0.0052	0.0026	0.0026
240	0.0051	0.0026	0.0026
241	0.0050	0.0025	0.0025
242	0.0050	0.0025	0.0025
243	0.0049	0.0024	0.0024
244	0.0048	0.0024	0.0024
245	0.0048	0.0024	0.0024
246	0.0047	0.0023	0.0023
247	0.0046	0.0023	0.0023
248	0.0046	0.0023	0.0023
249	0.0045	0.0023	0.0023
250	0.0045	0.0022	0.0022
251	0.0044	0.0022	0.0022
252	0.0043	0.0022	0.0022
253	0.0043	0.0021	0.0022
254	0.0042	0.0021	0.0021
255	0.0042	0.0021	0.0021
256	0.0041	0.0021	0.0021
257	0.0041	0.0020	0.0021
258	0.0041	0.0020	0.0020
259	0.0040	0.0020	0.0020
260	0.0040	0.0020	0.0020
261	0.0039	0.0020	0.0020
262	0.0039	0.0019	0.0019
263	0.0038	0.0019	0.0019
264	0.0038	0.0019	0.0019
265	0.0038	0.0019	0.0019
266	0.0037	0.0019	0.0019
267	0.0037	0.0018	0.0019
268	0.0037	0.0018	0.0018
269	0.0036	0.0018	0.0018
270	0.0036	0.0018	0.0018
271	0.0036	0.0018	0.0018
272	0.0035	0.0018	0.0018
273	0.0035	0.0017	0.0018
274	0.0035	0.0017	0.0017
275	0.0034	0.0017	0.0017
276	0.0034	0.0017	0.0017
277	0.0034	0.0017	0.0017
278	0.0034	0.0017	0.0017
279	0.0033	0.0017	0.0017
280	0.0033	0.0016	0.0017
281	0.0033	0.0016	0.0016
282	0.0032	0.0016	0.0016
283	0.0032	0.0016	0.0016
284	0.0032	0.0016	0.0016
285	0.0032	0.0016	0.0016
286	0.0031	0.0016	0.0016
287	0.0031	0.0016	0.0016
288	0.0031	0.0015	0.0015

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      ----------------------------------------------------------------
      ----------------------------------------------------------------
      Total soil rain loss =      1.22(In)
      Total effective rainfall =      1.88(In)
      Peak flow rate in flood hydrograph =   1742.41(CFS)
      ------------------------------------------------------------------
      ++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                         24 - H O U R    S T O R M
                    R u n o f f      H y d r o g r a p h
      ----------------------------------------------------------------
                 Hydrograph in   5   Minute intervals ((CFS))

      ----------------------------------------------------------------
Time(h+m) Volume Ac.Ft   Q(CFS)  0      450.0     900.0    1350.0    1800.0
-----------------------------------------------------------------------
  0+ 5       0.0011      0.16  Q         |         |         |         |
  0+10       0.0052      0.59  Q         |         |         |         |
  0+15       0.0140      1.28  Q         |         |         |         |
  0+20       0.0293      2.22  Q         |         |         |         |
  0+25       0.0537      3.54  Q         |         |         |         |
  0+30       0.0934      5.77  Q         |         |         |         |
  0+35       0.1555      9.02  Q         |         |         |         |
  0+40       0.2391     12.13  Q         |         |         |         |
  0+45       0.3416     14.88  Q         |         |         |         |
  0+50       0.4593     17.09  Q         |         |         |         |
  0+55       0.5887     18.78  Q         |         |         |         |
  1+ 0       0.7273     20.13  Q         |         |         |         |
  1+ 5       0.8738     21.27  Q         |         |         |         |
  1+10       1.0273     22.28  Q         |         |         |         |
  1+15       1.1871     23.20  Q         |         |         |         |
  1+20       1.3524     24.01  Q         |         |         |         |
  1+25       1.5229     24.75  Q         |         |         |         |
  1+30       1.6981     25.44  Q         |         |         |         |
  1+35       1.8775     26.05  Q         |         |         |         |
  1+40       2.0609     26.63  Q         |         |         |         |
  1+45       2.2480     27.16  Q         |         |         |         |
  1+50       2.4384     27.65  Q         |         |         |         |
  1+55       2.6322     28.14  Q         |         |         |         |
  2+ 0       2.8291     28.59  Q         |         |         |         |
  2+ 5       3.0291     29.04  Q         |         |         |         |
  2+10       3.2319     29.44  Q         |         |         |         |
  2+15       3.4374     29.84  Q         |         |         |         |
  2+20       3.6453     30.19  Q         |         |         |         |
  2+25       3.8556     30.53  Q         |         |         |         |
  2+30       4.0681     30.86  Q         |         |         |         |
  2+35       4.2829     31.18  Q         |         |         |         |
  2+40       4.4998     31.50  Q         |         |         |         |
  2+45       4.7188     31.80  Q         |         |         |         |
  2+50       4.9398     32.09  Q         |         |         |         |
  2+55       5.1628     32.38  Q         |         |         |         |
  3+ 0       5.3878     32.66  Q         |         |         |         |
  3+ 5       5.6145     32.92  Q         |         |         |         |
  3+10       5.8430     33.18  Q         |         |         |         |
  3+15       6.0733     33.43  Q         |         |         |         |
  3+20       6.3053     33.69  Q         |         |         |         |
  3+25       6.5391     33.94  Q         |         |         |         |
  3+30       6.7744     34.18  QV        |         |         |         |
  3+35       7.0114     34.41  QV        |         |         |         |
  3+40       7.2501     34.65  QV        |         |         |         |
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3+45       7.4904     34.89  QV        |          |          |          |
3+50       7.7322     35.11  QV        |          |          |          |
3+55       7.9755     35.33  QV        |          |          |          |
4+ 0       8.2204     35.55  QV        |          |          |          |
4+ 5       8.4668     35.77  QV        |          |          |          |
4+10       8.7146     35.98  QV        |          |          |          |
4+15       8.9638     36.19  QV        |          |          |          |
4+20       9.2144     36.39  QV        |          |          |          |
4+25       9.4665     36.60  QV        |          |          |          |
4+30       9.7200     36.81  QV        |          |          |          |
4+35       9.9749     37.02  QV        |          |          |          |
4+40      10.2314     37.24  QV        |          |          |          |
4+45      10.4894     37.46  QV        |          |          |          |
4+50      10.7489     37.68  QV        |          |          |          |
4+55      11.0100     37.91  QV        |          |          |          |
5+ 0      11.2727     38.13  QV        |          |          |          |
5+ 5      11.5369     38.36  QV        |          |          |          |
5+10      11.8027     38.59  QV        |          |          |          |
5+15      12.0701     38.82  QV        |          |          |          |
5+20      12.3389     39.04  QV        |          |          |          |
5+25      12.6093     39.26  QV        |          |          |          |
5+30      12.8812     39.48  QV        |          |          |          |
5+35      13.1547     39.71  QV        |          |          |          |
5+40      13.4297     39.93  Q V       |          |          |          |
5+45      13.7063     40.17  Q V       |          |          |          |
5+50      13.9845     40.39  Q V       |          |          |          |
5+55      14.2642     40.61  Q V       |          |          |          |
6+ 0      14.5454     40.83  Q V       |          |          |          |
6+ 5      14.8281     41.05  Q V       |          |          |          |
6+10      15.1123     41.27  Q V       |          |          |          |
6+15      15.3982     41.50  Q V       |          |          |          |
6+20      15.6856     41.73  Q V       |          |          |          |
6+25      15.9746     41.97  Q V       |          |          |          |
6+30      16.2652     42.20  Q V       |          |          |          |
6+35      16.5575     42.44  Q V       |          |          |          |
6+40      16.8515     42.69  Q V       |          |          |          |
6+45      17.1472     42.93  Q V       |          |          |          |
6+50      17.4446     43.18  Q V       |          |          |          |
6+55      17.7438     43.44  Q V       |          |          |          |
7+ 0      18.0447     43.69  Q V       |          |          |          |
7+ 5      18.3474     43.96  Q V       |          |          |          |
7+10      18.6520     44.22  Q V       |          |          |          |
7+15      18.9584     44.49  Q V       |          |          |          |
7+20      19.2667     44.76  Q V       |          |          |          |
7+25      19.5769     45.04  |QV       |          |          |          |
7+30      19.8890     45.32  |Q V      |          |          |          |
7+35      20.2031     45.61  |Q V      |          |          |          |
7+40      20.5192     45.90  |Q V      |          |          |          |
7+45      20.8373     46.19  |Q V      |          |          |          |
7+50      21.1575     46.49  |Q V      |          |          |          |
7+55      21.4798     46.79  |Q V      |          |          |          |
8+ 0      21.8042     47.10  |Q V      |          |          |          |
8+ 5      22.1307     47.42  |Q V      |          |          |          |
8+10      22.4595     47.73  |Q V      |          |          |          |
8+15      22.7905     48.06  |Q V      |          |          |          |
8+20      23.1237     48.39  |Q V      |          |          |          |
8+25      23.4593     48.72  |Q V      |          |          |          |
8+30      23.7972     49.06  |Q V      |          |          |          |
8+35      24.1374     49.41  |Q V      |          |          |          |
```

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 8+40      24.4801     49.76  |Q V      |         |         |         |
 8+45      24.8253     50.12  |Q V      |         |         |         |
 8+50      25.1730     50.48  |Q V      |         |         |         |
 8+55      25.5232     50.85  |Q V      |         |         |         |
 9+ 0      25.8760     51.23  |Q V      |         |         |         |
 9+ 5      26.2315     51.62  |Q V      |         |         |         |
 9+10      26.5897     52.01  |Q  V     |         |         |         |
 9+15      26.9506     52.41  |Q  V     |         |         |         |
 9+20      27.3143     52.81  |Q  V     |         |         |         |
 9+25      27.6809     53.23  |Q  V     |         |         |         |
 9+30      28.0504     53.65  |Q  V     |         |         |         |
 9+35      28.4228     54.08  |Q  V     |         |         |         |
 9+40      28.7982     54.52  |Q  V     |         |         |         |
 9+45      29.1768     54.96  |Q  V     |         |         |         |
 9+50      29.5584     55.42  |Q  V     |         |         |         |
 9+55      29.9433     55.88  |Q  V     |         |         |         |
10+ 0      30.3315     56.36  |Q  V     |         |         |         |
10+ 5      30.7230     56.84  |Q  V     |         |         |         |
10+10      31.1179     57.34  |Q  V     |         |         |         |
10+15      31.5162     57.85  |Q  V     |         |         |         |
10+20      31.9182     58.36  |Q  V     |         |         |         |
10+25      32.3238     58.89  |Q  V     |         |         |         |
10+30      32.7330     59.43  |Q  V     |         |         |         |
10+35      33.1461     59.98  |Q   V    |         |         |         |
10+40      33.5631     60.55  |Q   V    |         |         |         |
10+45      33.9841     61.12  |Q   V    |         |         |         |
10+50      34.4091     61.71  |Q   V    |         |         |         |
10+55      34.8383     62.32  |Q   V    |         |         |         |
11+ 0      35.2718     62.94  |Q   V    |         |         |         |
11+ 5      35.7096     63.58  |Q   V    |         |         |         |
11+10      36.1519     64.22  |Q   V    |         |         |         |
11+15      36.5989     64.89  |Q   V    |         |         |         |
11+20      37.0505     65.58  |Q   V    |         |         |         |
11+25      37.5070     66.28  |Q   V    |         |         |         |
11+30      37.9684     67.00  |Q   V    |         |         |         |
11+35      38.4349     67.74  |Q   V    |         |         |         |
11+40      38.9067     68.50  |Q   V    |         |         |         |
11+45      39.3838     69.28  |Q   V    |         |         |         |
11+50      39.8665     70.08  |Q    V   |         |         |         |
11+55      40.3549     70.91  |Q    V   |         |         |         |
12+ 0      40.8491     71.76  |Q    V   |         |         |         |
12+ 5      41.3493     72.63  |Q    V   |         |         |         |
12+10      41.8554     73.49  |Q    V   |         |         |         |
12+15      42.3677     74.37  |Q    V   |         |         |         |
12+20      42.8860     75.26  |Q    V   |         |         |         |
12+25      43.4104     76.15  |Q    V   |         |         |         |
12+30      43.9406     76.99  |Q    V   |         |         |         |
12+35      44.4764     77.80  |Q    V   |         |         |         |
12+40      45.0181     78.64  |Q    V   |         |         |         |
12+45      45.5660     79.56  |Q    V   |         |         |         |
12+50      46.1207     80.55  |Q    V   |         |         |         |
12+55      46.6829     81.63  |Q     V  |         |         |         |
13+ 0      47.2529     82.77  |Q     V  |         |         |         |
13+ 5      47.8313     83.98  |Q     V  |         |         |         |
13+10      48.4184     85.25  |Q     V  |         |         |         |
13+15      49.0147     86.58  |Q     V  |         |         |         |
13+20      49.6206     87.97  |Q     V  |         |         |         |
13+25      50.2365     89.44  |Q     V  |         |         |         |
13+30      50.8630     90.96  | Q    V  |         |         |         |
```

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13+35      51.5005     92.57  | Q    V  |         |         |         |
13+40      52.1496     94.25  | Q    V  |         |         |         |
13+45      52.8109     96.02  | Q    V  |         |         |         |
13+50      53.4850     97.87  | Q     V |         |         |         |
13+55      54.1725     99.83  | Q     V |         |         |         |
14+ 0      54.8742    101.88  | Q     V |         |         |         |
14+ 5      55.5919    104.21  | Q     V |         |         |         |
14+10      56.3281    106.90  | Q     V |         |         |         |
14+15      57.0854    109.96  | Q     V |         |         |         |
14+20      57.8665    113.41  | Q     V |         |         |         |
14+25      58.6751    117.40  | Q     V |         |         |         |
14+30      59.5180    122.40  | Q     V |         |         |         |
14+35      60.4036    128.59  | Q      V|         |         |         |
14+40      61.3325    134.88  | Q      V|         |         |         |
14+45      62.3047    141.16  |  Q     V|         |         |         |
14+50      63.3187    147.23  |  Q     V|         |         |         |
14+55      64.3737    153.19  |  Q     V|         |         |         |
15+ 0      65.4702    159.21  |  Q     V|         |         |         |
15+ 5      66.6100    165.51  |  Q      V         |         |         |
15+10      67.7957    172.15  |  Q      V         |         |         |
15+15      69.0308    179.35  |  Q      V         |         |         |
15+20      70.3193    187.09  |   Q     V         |         |         |
15+25      71.6653    195.44  |   Q     V         |         |         |
15+30      73.0730    204.39  |   Q     |V        |         |         |
15+35      74.5485    214.24  |   Q     |V        |         |         |
15+40      76.0996    225.23  |    Q    |V        |         |         |
15+45      77.7377    237.85  |    Q    |V        |         |         |
15+50      79.4761    252.42  |    Q    | V       |         |         |
15+55      81.3536    272.61  |     Q   | V       |         |         |
16+ 0      83.4601    305.86  |     Q   | V       |         |         |
16+ 5      86.2234    401.23  |       Q |  V      |         |         |
16+10      89.9183    536.51  |         |Q V      |         |         |
16+15      94.5591    673.83  |         |   Q     |         |         |
16+20     100.2648    828.47  |         |    V  Q |         |         |
16+25     107.4571   1044.32  |         |     V   |  Q      |         |
16+30     117.1355   1405.30  |         |      V  |         |Q        |
16+35     129.1356   1742.41  |         |        V|         |       Q |
16+40     140.6183   1667.30  |         |         |V        |      Q  |
16+45     150.8676   1488.19  |         |         | V       |  Q      |
16+50     159.4575   1247.25  |         |         |   V  Q  |         |
16+55     166.4985   1022.35  |         |         | Q  V    |         |
17+ 0     172.4688    866.88  |         |        Q|     V   |         |
17+ 5     177.7294    763.85  |         |     Q   |     V   |         |
17+10     182.4744    688.98  |         |    Q    |      V  |         |
17+15     186.8225    631.34  |         |   Q     |       V |         |
17+20     190.7656    572.54  |         | Q       |       V |         |
17+25     194.3766    524.32  |         |Q        |        V|         |
17+30     197.7597    491.22  |         Q         |        V|         |
17+35     200.8069    442.45  |        Q|         |         V         |
17+40     203.6500    412.82  |        Q|         |         V         |
17+45     206.2894    383.25  |       Q |         |         |V        |
17+50     208.7496    357.22  |      Q  |         |         |V        |
17+55     211.0935    340.32  |      Q  |         |         |V        |
18+ 0     213.2959    319.80  |      Q  |         |         | V       |
18+ 5     215.4000    305.51  |     Q   |         |         | V       |
18+10     217.3445    282.35  |     Q   |         |         | V       |
18+15     219.1970    268.97  |    Q    |         |         |  V      |
18+20     220.8818    244.64  |    Q    |         |         |  V      |
18+25     222.4848    232.75  |    Q    |         |         |  V      |
```

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18+30     224.0187    222.72  |   Q     |         |         |  V      |
18+35     225.4961    214.53  |   Q     |         |         |   V     |
18+40     226.9072    204.88  |   Q     |         |         |   V     |
18+45     228.2469    194.53  |   Q     |         |         |   V     |
18+50     229.5412    187.94  |   Q     |         |         |   V     |
18+55     230.7741    179.01  |  Q      |         |         |   V     |
19+ 0     231.9578    171.88  |  Q      |         |         |    V    |
19+ 5     233.0502    158.61  |  Q      |         |         |    V    |
19+10     234.1052    153.19  |  Q      |         |         |    V    |
19+15     235.1350    149.53  |  Q      |         |         |    V    |
19+20     236.1373    145.52  |  Q      |         |         |    V    |
19+25     237.0827    137.27  |  Q      |         |         |    V    |
19+30     237.9803    130.34  | Q       |         |         |    V    |
19+35     238.8572    127.33  | Q       |         |         |     V   |
19+40     239.7117    124.07  | Q       |         |         |     V   |
19+45     240.5309    118.95  | Q       |         |         |     V   |
19+50     241.2871    109.81  | Q       |         |         |     V   |
19+55     242.0208    106.53  | Q       |         |         |     V   |
20+ 0     242.7365    103.92  | Q       |         |         |     V   |
20+ 5     243.4308    100.82  | Q       |         |         |     V   |
20+10     244.0727     93.20  | Q       |         |         |     V   |
20+15     244.6815     88.40  |Q        |         |         |     V   |
20+20     245.2784     86.67  |Q        |         |         |      V  |
20+25     245.8658     85.29  |Q        |         |         |      V  |
20+30     246.4476     84.48  |Q        |         |         |      V  |
20+35     247.0280     84.28  |Q        |         |         |      V  |
20+40     247.6001     83.06  |Q        |         |         |      V  |
20+45     248.1632     81.76  |Q        |         |         |      V  |
20+50     248.7173     80.46  |Q        |         |         |      V  |
20+55     249.2615     79.02  |Q        |         |         |      V  |
21+ 0     249.7963     77.64  |Q        |         |         |      V  |
21+ 5     250.3207     76.15  |Q        |         |         |      V  |
21+10     250.8323     74.28  |Q        |         |         |      V  |
21+15     251.3154     70.16  |Q        |         |         |      V  |
21+20     251.7625     64.92  |Q        |         |         |       V |
21+25     252.2001     63.54  |Q        |         |         |       V |
21+30     252.6299     62.40  |Q        |         |         |       V |
21+35     253.0519     61.27  |Q        |         |         |       V |
21+40     253.4651     60.00  |Q        |         |         |       V |
21+45     253.8669     58.34  |Q        |         |         |       V |
21+50     254.2449     54.90  |Q        |         |         |       V |
21+55     254.5818     48.90  |Q        |         |         |       V |
22+ 0     254.9109     47.80  |Q        |         |         |       V |
22+ 5     255.2342     46.94  |Q        |         |         |       V |
22+10     255.5522     46.17  |Q        |         |         |       V |
22+15     255.8651     45.44  |Q        |         |         |       V |
22+20     256.1734     44.76  Q        |         |         |       V |
22+25     256.4772     44.12  Q        |         |         |       V |
22+30     256.7769     43.51  Q        |         |         |       V |
22+35     257.0726     42.93  Q        |         |         |       V |
22+40     257.3645     42.38  Q        |         |         |       V |
22+45     257.6526     41.84  Q        |         |         |       V |
22+50     257.9373     41.33  Q        |         |         |       V |
22+55     258.2186     40.85  Q        |         |         |        V|
23+ 0     258.4967     40.39  Q        |         |         |        V|
23+ 5     258.7718     39.94  Q        |         |         |        V|
23+10     259.0438     39.50  Q        |         |         |        V|
23+15     259.3130     39.08  Q        |         |         |        V|
23+20     259.5792     38.67  Q        |         |         |        V|
```

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23+25     259.8428     38.27  Q          |          |          |         V|
23+30     260.1036     37.88  Q          |          |          |         V|
23+35     260.3619     37.50  Q          |          |          |         V|
23+40     260.6176     37.13  Q          |          |          |         V|
23+45     260.8708     36.77  Q          |          |          |         V|
23+50     261.1217     36.42  Q          |          |          |         V|
23+55     261.3701     36.08  Q          |          |          |         V|
24+ 0     261.6163     35.74  Q          |          |          |         V|
24+ 5     261.8590     35.25  Q          |          |          |         V|
24+10     262.0966     34.50  Q          |          |          |         V|
24+15     262.3275     33.51  Q          |          |          |         V|
24+20     262.5498     32.29  Q          |          |          |         V|
24+25     262.7612     30.69  Q          |          |          |         V|
24+30     262.9555     28.22  Q          |          |          |         V|
24+35     263.1259     24.75  Q          |          |          |         V|
24+40     263.2737     21.46  Q          |          |          |         V|
24+45     263.4016     18.57  Q          |          |          |         V|
24+50     263.5135     16.26  Q          |          |          |         V|
24+55     263.6133     14.49  Q          |          |          |         V|
25+ 0     263.7035     13.09  Q          |          |          |         V|
25+ 5     263.7855     11.90  Q          |          |          |         V|
25+10     263.8603     10.87  Q          |          |          |         V|
25+15     263.9288      9.94  Q          |          |          |         V|
25+20     263.9917      9.13  Q          |          |          |         V|
25+25     264.0497      8.41  Q          |          |          |         V|
25+30     264.1029      7.74  Q          |          |          |         V|
25+35     264.1523      7.16  Q          |          |          |         V|
25+40     264.1979      6.62  Q          |          |          |         V|
25+45     264.2402      6.14  Q          |          |          |         V|
25+50     264.2794      5.70  Q          |          |          |         V|
25+55     264.3157      5.28  Q          |          |          |         V|
26+ 0     264.3494      4.89  Q          |          |          |         V|
26+ 5     264.3805      4.52  Q          |          |          |         V|
26+10     264.4094      4.19  Q          |          |          |         V|
26+15     264.4360      3.87  Q          |          |          |         V|
26+20     264.4609      3.61  Q          |          |          |         V|
26+25     264.4841      3.37  Q          |          |          |         V|
26+30     264.5057      3.13  Q          |          |          |         V|
26+35     264.5257      2.91  Q          |          |          |         V|
26+40     264.5444      2.70  Q          |          |          |         V|
26+45     264.5617      2.51  Q          |          |          |         V|
26+50     264.5777      2.33  Q          |          |          |         V|
26+55     264.5926      2.16  Q          |          |          |         V|
27+ 0     264.6063      1.99  Q          |          |          |         V|
27+ 5     264.6191      1.86  Q          |          |          |         V|
27+10     264.6310      1.73  Q          |          |          |         V|
27+15     264.6421      1.60  Q          |          |          |         V|
27+20     264.6522      1.48  Q          |          |          |         V|
27+25     264.6616      1.37  Q          |          |          |         V|
27+30     264.6704      1.27  Q          |          |          |         V|
27+35     264.6785      1.17  Q          |          |          |         V|
27+40     264.6859      1.08  Q          |          |          |         V|
27+45     264.6927      0.99  Q          |          |          |         V|
27+50     264.6990      0.92  Q          |          |          |         V|
27+55     264.7048      0.85  Q          |          |          |         V|
28+ 0     264.7102      0.78  Q          |          |          |         V|
28+ 5     264.7151      0.72  Q          |          |          |         V|
28+10     264.7197      0.67  Q          |          |          |         V|
28+15     264.7241      0.63  Q          |          |          |         V|
```

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   28+20     264.7281      0.59  Q         |         |         |        V|
   28+25     264.7319      0.55  Q         |         |         |        V|
   28+30     264.7354      0.51  Q         |         |         |        V|
   28+35     264.7386      0.46  Q         |         |         |        V|
   28+40     264.7415      0.42  Q         |         |         |        V|
   28+45     264.7441      0.38  Q         |         |         |        V|
   28+50     264.7464      0.34  Q         |         |         |        V|
   28+55     264.7484      0.29  Q         |         |         |        V|
   29+ 0     264.7502      0.25  Q         |         |         |        V|
   29+ 5     264.7516      0.21  Q         |         |         |        V|
   29+10     264.7528      0.17  Q         |         |         |        V|
   29+15     264.7538      0.14  Q         |         |         |        V|
   29+20     264.7546      0.12  Q         |         |         |        V|
   29+25     264.7552      0.10  Q         |         |         |        V|
   29+30     264.7558      0.08  Q         |         |         |        V|
   29+35     264.7561      0.06  Q         |         |         |        V|
   29+40     264.7564      0.04  Q         |         |         |        V|
   29+45     264.7565      0.01  Q         |         |         |        V|
----------------------------------------------------------------------
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U n i t H y d r o g r a p h A n a l y s i s

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Study date 08/10/17

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San Bernardino County Synthetic Unit Hydrology Method
Manual date - August 1986

Program License Serial Number 6320

164309 - NRG COOLWATER SOLAR FACILITY - DAGGETT, CA
OFFSITE AREA "D"
100-YEAR, 24-HOUR STORM EVENT
BY: JDN, DATE: 08-10-17

Storm Event Year = 100

Antecedent Moisture Condition = 3

English (in-lb) Input Units Used

English Rainfall Data (Inches) Input Values Used

English Units used in output format

Area averaged rainfall intensity isohyetal data:

Sub-Area (Ac.)	Duration (hours)	Isohyetal (In)
Rainfall data for year 100		
6665.22	1	1.38
Rainfall data for year 100		
6665.22	6	2.38
Rainfall data for year 100		
6665.22	24	3.75

++

******** Area-averaged max loss rate, Fm ********

SCS curve No.(AMCII)	SCS curve NO.(AMC 3)	Area (Ac.)	Area Fraction	Fp(Fig C6) (In/Hr)	Ap (dec.)	Fm (In/Hr)
73.1	89.4	6665.22	1.000	0.203	0.990	0.201

Area-averaged adjusted loss rate Fm (In/Hr) = 0.201

********* Area-Averaged low loss rate fraction, Yb **********

Area (Ac.)	Area Fract	SCS CN (AMC2)	SCS CN (AMC3)	S	Pervious Yield Fr
6598.57	0.990	73.1	89.4	1.18	0.702
66.65	0.010	98.0	98.0	0.20	0.938

Area-averaged catchment yield fraction, Y = 0.704
Area-averaged low loss fraction, Yb = 0.296
++
Watercourse length = 57103.00(Ft.)
Length from concentration point to centroid = 29646.00(Ft.)
Elevation difference along watercourse = 2548.00(Ft.)
Mannings friction factor along watercourse = 0.035
Watershed area = 6665.22(Ac.)
Catchment Lag time = 1.417 hours
Unit interval = 5.000 minutes
Unit interval percentage of lag time = 5.8827
Hydrograph baseflow = 0.00(CFS)
Average maximum watershed loss rate(Fm) = 0.201(In/Hr)
Average low loss rate fraction (Yb) = 0.296 (decimal)
VALLEY DEVELOPED S-Graph proportion = 0.000
VALLEY UNDEVELOPED S-Graph proportion = 0.000
FOOTHILL S-Graph proportion = 0.360
MOUNTAIN S-Graph proportion = 0.000
DESERT S-Graph proportion = 0.640

Computed peak 5-minute rainfall = 0.653(In)
Computed peak 30-minute rainfall = 1.118(In)
Specified peak 1-hour rainfall = 1.376(In)
Computed peak 3-hour rainfall = 1.925(In)
Specified peak 6-hour rainfall = 2.379(In)
Specified peak 24-hour rainfall = 3.755(In)

Rainfall depth area reduction factors:
Using a total area of 6665.22(Ac.) (Ref: fig. E-4)

5-minute factor = 0.740 Adjusted rainfall = 0.483(In)
30-minute factor = 0.741 Adjusted rainfall = 0.828(In)
1-hour factor = 0.741 Adjusted rainfall = 1.019(In)
3-hour factor = 0.963 Adjusted rainfall = 1.853(In)
6-hour factor = 0.981 Adjusted rainfall = 2.335(In)
24-hour factor = 0.991 Adjusted rainfall = 3.719(In)

U n i t H y d r o g r a p h
++

Interval Number	'S' Graph Mean values	Unit Hydrograph ((CFS))
	(K = 80607.50 (CFS))	
1	0.300	241.647
2	0.899	483.294
3	1.628	587.217
4	2.640	815.959
5	3.778	916.938

6	5.166	1119.168
7	6.708	1242.906
8	8.557	1490.322
9	10.594	1642.436
10	13.623	2441.067
11	17.015	2734.536
12	21.670	3751.939
13	26.607	3979.553
14	31.424	3883.264
15	36.286	3919.070
16	41.548	4241.779
17	47.370	4692.941
18	51.713	3500.496
19	55.110	2738.193
20	57.964	2300.841
21	60.388	1953.794
22	62.664	1834.369
23	64.588	1551.396
24	66.459	1508.111
25	68.118	1337.258
26	69.701	1275.493
27	71.130	1151.730
28	72.522	1122.617
29	73.804	1033.420
30	75.051	1004.713
31	76.159	893.468
32	77.211	848.036
33	78.245	833.206
34	79.267	823.952
35	80.179	734.826
36	80.981	646.416
37	81.782	646.416
38	82.584	646.416
39	83.346	614.214
40	84.011	536.102
41	84.672	532.610
42	85.333	532.610
43	85.982	522.839
44	86.558	464.798
45	87.123	455.222
46	87.688	455.222
47	88.249	452.798
48	88.746	400.533
49	89.217	379.352
50	89.688	379.352
51	90.158	379.352
52	90.574	335.081
53	90.935	291.342
54	91.297	291.342
55	91.658	291.342
56	92.006	280.149
57	92.320	253.090
58	92.632	251.890
59	92.945	251.890
60	93.251	247.081
61	93.522	218.630
62	93.788	213.955
63	94.053	213.955
64	94.317	212.904

65	94.554	190.413
66	94.779	181.330
67	95.003	181.330
68	95.228	181.330
69	95.417	152.267
70	95.571	123.669
71	95.724	123.669
72	95.878	123.669
73	96.031	123.669
74	96.184	123.669
75	96.338	123.669
76	96.491	123.669
77	96.640	120.144
78	96.764	99.375
79	96.883	95.976
80	97.002	95.976
81	97.121	95.976
82	97.240	95.976
83	97.359	95.976
84	97.478	95.976
85	97.597	95.976
86	97.697	80.266
87	97.777	64.869
88	97.858	64.869
89	97.938	64.869
90	98.019	64.869
91	98.099	64.869
92	98.179	64.869
93	98.260	64.869
94	98.337	62.203
95	98.395	46.555
96	98.449	44.005
97	98.504	44.005
98	98.559	44.005
99	98.613	44.005
100	98.668	44.005
101	98.722	44.005
102	98.777	44.005
103	98.831	43.621
104	98.885	43.246
105	98.938	43.246
106	98.992	43.246
107	99.046	43.246
108	99.099	43.246
109	99.153	43.246
110	99.207	43.246
111	99.260	42.808
112	99.310	40.248
113	99.359	39.832
114	99.409	39.832
115	99.458	39.832
116	99.507	39.832
117	99.557	39.832
118	99.606	39.832
119	99.658	41.514
120	99.692	27.570
121	99.715	18.968
122	99.739	18.968
123	99.763	18.968

124	99.786	18.968
125	99.810	18.968
126	99.833	18.968
127	99.857	18.968
128	99.880	18.968
129	99.904	18.968
130	99.927	18.968
131	99.951	18.968
132	99.974	18.968
133	100.000	9.484

Peak Unit Number	Adjusted mass rainfall (In)	Unit rainfall (In)
1	0.4830	0.4830
2	0.5950	0.1119
3	0.6721	0.0771
4	0.7328	0.0607
5	0.7836	0.0508
6	0.8278	0.0442
7	0.8670	0.0392
8	0.9025	0.0355
9	0.9350	0.0325
10	0.9651	0.0301
11	0.9931	0.0280
12	1.0194	0.0263
13	1.0648	0.0454
14	1.1086	0.0438
15	1.1510	0.0424
16	1.1921	0.0411
17	1.2320	0.0400
18	1.2709	0.0389
19	1.3089	0.0379
20	1.3459	0.0370
21	1.3821	0.0362
22	1.4175	0.0354
23	1.4522	0.0347
24	1.4862	0.0340
25	1.5196	0.0334
26	1.5523	0.0328
27	1.5845	0.0322
28	1.6162	0.0317
29	1.6473	0.0311
30	1.6780	0.0307
31	1.7082	0.0302
32	1.7379	0.0298
33	1.7673	0.0293
34	1.7962	0.0289
35	1.8247	0.0285
36	1.8529	0.0282
37	1.8699	0.0170
38	1.8866	0.0167
39	1.9030	0.0164
40	1.9191	0.0161
41	1.9350	0.0159
42	1.9506	0.0156
43	1.9660	0.0154
44	1.9811	0.0151
45	1.9960	0.0149
46	2.0107	0.0147

47	2.0251	0.0145
48	2.0394	0.0143
49	2.0535	0.0141
50	2.0674	0.0139
51	2.0811	0.0137
52	2.0946	0.0135
53	2.1079	0.0133
54	2.1211	0.0132
55	2.1341	0.0130
56	2.1470	0.0129
57	2.1597	0.0127
58	2.1722	0.0126
59	2.1846	0.0124
60	2.1969	0.0123
61	2.2091	0.0121
62	2.2211	0.0120
63	2.2329	0.0119
64	2.2447	0.0118
65	2.2563	0.0116
66	2.2678	0.0115
67	2.2792	0.0114
68	2.2905	0.0113
69	2.3017	0.0112
70	2.3128	0.0111
71	2.3237	0.0110
72	2.3346	0.0109
73	2.3454	0.0108
74	2.3562	0.0107
75	2.3668	0.0106
76	2.3774	0.0106
77	2.3879	0.0105
78	2.3982	0.0104
79	2.4085	0.0103
80	2.4187	0.0102
81	2.4288	0.0101
82	2.4389	0.0100
83	2.4488	0.0100
84	2.4587	0.0099
85	2.4685	0.0098
86	2.4782	0.0097
87	2.4879	0.0096
88	2.4974	0.0096
89	2.5069	0.0095
90	2.5163	0.0094
91	2.5257	0.0094
92	2.5350	0.0093
93	2.5442	0.0092
94	2.5534	0.0092
95	2.5625	0.0091
96	2.5715	0.0090
97	2.5805	0.0090
98	2.5894	0.0089
99	2.5982	0.0088
100	2.6070	0.0088
101	2.6157	0.0087
102	2.6244	0.0087
103	2.6330	0.0086
104	2.6416	0.0086
105	2.6501	0.0085

106	2.6586	0.0085
107	2.6670	0.0084
108	2.6753	0.0083
109	2.6836	0.0083
110	2.6918	0.0082
111	2.7000	0.0082
112	2.7082	0.0081
113	2.7163	0.0081
114	2.7243	0.0081
115	2.7323	0.0080
116	2.7403	0.0080
117	2.7482	0.0079
118	2.7561	0.0079
119	2.7639	0.0078
120	2.7717	0.0078
121	2.7794	0.0077
122	2.7871	0.0077
123	2.7948	0.0077
124	2.8024	0.0076
125	2.8100	0.0076
126	2.8175	0.0075
127	2.8250	0.0075
128	2.8325	0.0075
129	2.8399	0.0074
130	2.8472	0.0074
131	2.8546	0.0073
132	2.8619	0.0073
133	2.8692	0.0073
134	2.8764	0.0072
135	2.8836	0.0072
136	2.8907	0.0072
137	2.8979	0.0071
138	2.9049	0.0071
139	2.9120	0.0071
140	2.9190	0.0070
141	2.9260	0.0070
142	2.9330	0.0070
143	2.9399	0.0069
144	2.9468	0.0069
145	2.9536	0.0069
146	2.9605	0.0068
147	2.9673	0.0068
148	2.9740	0.0068
149	2.9808	0.0067
150	2.9875	0.0067
151	2.9942	0.0067
152	3.0008	0.0066
153	3.0074	0.0066
154	3.0140	0.0066
155	3.0206	0.0066
156	3.0271	0.0065
157	3.0336	0.0065
158	3.0401	0.0065
159	3.0465	0.0065
160	3.0530	0.0064
161	3.0594	0.0064
162	3.0657	0.0064
163	3.0721	0.0063
164	3.0784	0.0063

165	3.0847	0.0063
166	3.0910	0.0063
167	3.0972	0.0062
168	3.1034	0.0062
169	3.1096	0.0062
170	3.1158	0.0062
171	3.1219	0.0061
172	3.1280	0.0061
173	3.1341	0.0061
174	3.1402	0.0061
175	3.1463	0.0061
176	3.1523	0.0060
177	3.1583	0.0060
178	3.1643	0.0060
179	3.1703	0.0060
180	3.1762	0.0059
181	3.1821	0.0059
182	3.1880	0.0059
183	3.1939	0.0059
184	3.1997	0.0059
185	3.2056	0.0058
186	3.2114	0.0058
187	3.2172	0.0058
188	3.2229	0.0058
189	3.2287	0.0057
190	3.2344	0.0057
191	3.2401	0.0057
192	3.2458	0.0057
193	3.2515	0.0057
194	3.2571	0.0057
195	3.2628	0.0056
196	3.2684	0.0056
197	3.2740	0.0056
198	3.2795	0.0056
199	3.2851	0.0056
200	3.2906	0.0055
201	3.2962	0.0055
202	3.3017	0.0055
203	3.3071	0.0055
204	3.3126	0.0055
205	3.3180	0.0054
206	3.3235	0.0054
207	3.3289	0.0054
208	3.3343	0.0054
209	3.3397	0.0054
210	3.3450	0.0054
211	3.3504	0.0053
212	3.3557	0.0053
213	3.3610	0.0053
214	3.3663	0.0053
215	3.3716	0.0053
216	3.3768	0.0053
217	3.3821	0.0052
218	3.3873	0.0052
219	3.3925	0.0052
220	3.3977	0.0052
221	3.4029	0.0052
222	3.4081	0.0052
223	3.4132	0.0051

224	3.4183	0.0051
225	3.4235	0.0051
226	3.4286	0.0051
227	3.4337	0.0051
228	3.4387	0.0051
229	3.4438	0.0051
230	3.4488	0.0050
231	3.4539	0.0050
232	3.4589	0.0050
233	3.4639	0.0050
234	3.4689	0.0050
235	3.4738	0.0050
236	3.4788	0.0050
237	3.4837	0.0049
238	3.4887	0.0049
239	3.4936	0.0049
240	3.4985	0.0049
241	3.5034	0.0049
242	3.5083	0.0049
243	3.5131	0.0049
244	3.5180	0.0049
245	3.5228	0.0048
246	3.5276	0.0048
247	3.5325	0.0048
248	3.5373	0.0048
249	3.5420	0.0048
250	3.5468	0.0048
251	3.5516	0.0048
252	3.5563	0.0047
253	3.5611	0.0047
254	3.5658	0.0047
255	3.5705	0.0047
256	3.5752	0.0047
257	3.5799	0.0047
258	3.5845	0.0047
259	3.5892	0.0047
260	3.5939	0.0046
261	3.5985	0.0046
262	3.6031	0.0046
263	3.6077	0.0046
264	3.6123	0.0046
265	3.6169	0.0046
266	3.6215	0.0046
267	3.6261	0.0046
268	3.6306	0.0046
269	3.6352	0.0045
270	3.6397	0.0045
271	3.6442	0.0045
272	3.6487	0.0045
273	3.6532	0.0045
274	3.6577	0.0045
275	3.6622	0.0045
276	3.6667	0.0045
277	3.6711	0.0045
278	3.6756	0.0044
279	3.6800	0.0044
280	3.6845	0.0044
281	3.6889	0.0044
282	3.6933	0.0044

283	3.6977	0.0044
284	3.7021	0.0044
285	3.7064	0.0044
286	3.7108	0.0044
287	3.7151	0.0044
288	3.7195	0.0043

Unit Period (number)	Unit Rainfall (In)	Unit Soil-Loss (In)	Effective Rainfall (In)
1	0.0043	0.0013	0.0031
2	0.0044	0.0013	0.0031
3	0.0044	0.0013	0.0031
4	0.0044	0.0013	0.0031
5	0.0044	0.0013	0.0031
6	0.0044	0.0013	0.0031
7	0.0044	0.0013	0.0031
8	0.0044	0.0013	0.0031
9	0.0045	0.0013	0.0031
10	0.0045	0.0013	0.0032
11	0.0045	0.0013	0.0032
12	0.0045	0.0013	0.0032
13	0.0045	0.0013	0.0032
14	0.0045	0.0013	0.0032
15	0.0046	0.0014	0.0032
16	0.0046	0.0014	0.0032
17	0.0046	0.0014	0.0032
18	0.0046	0.0014	0.0032
19	0.0046	0.0014	0.0033
20	0.0046	0.0014	0.0033
21	0.0047	0.0014	0.0033
22	0.0047	0.0014	0.0033
23	0.0047	0.0014	0.0033
24	0.0047	0.0014	0.0033
25	0.0047	0.0014	0.0033
26	0.0048	0.0014	0.0034
27	0.0048	0.0014	0.0034
28	0.0048	0.0014	0.0034
29	0.0048	0.0014	0.0034
30	0.0048	0.0014	0.0034
31	0.0049	0.0014	0.0034
32	0.0049	0.0014	0.0034
33	0.0049	0.0015	0.0035
34	0.0049	0.0015	0.0035
35	0.0049	0.0015	0.0035
36	0.0050	0.0015	0.0035
37	0.0050	0.0015	0.0035
38	0.0050	0.0015	0.0035
39	0.0050	0.0015	0.0035
40	0.0050	0.0015	0.0036
41	0.0051	0.0015	0.0036
42	0.0051	0.0015	0.0036
43	0.0051	0.0015	0.0036
44	0.0051	0.0015	0.0036
45	0.0052	0.0015	0.0036
46	0.0052	0.0015	0.0036
47	0.0052	0.0015	0.0037
48	0.0052	0.0015	0.0037

49	0.0053	0.0016	0.0037
50	0.0053	0.0016	0.0037
51	0.0053	0.0016	0.0037
52	0.0053	0.0016	0.0038
53	0.0054	0.0016	0.0038
54	0.0054	0.0016	0.0038
55	0.0054	0.0016	0.0038
56	0.0054	0.0016	0.0038
57	0.0055	0.0016	0.0038
58	0.0055	0.0016	0.0039
59	0.0055	0.0016	0.0039
60	0.0055	0.0016	0.0039
61	0.0056	0.0016	0.0039
62	0.0056	0.0017	0.0039
63	0.0056	0.0017	0.0040
64	0.0057	0.0017	0.0040
65	0.0057	0.0017	0.0040
66	0.0057	0.0017	0.0040
67	0.0057	0.0017	0.0040
68	0.0058	0.0017	0.0041
69	0.0058	0.0017	0.0041
70	0.0058	0.0017	0.0041
71	0.0059	0.0017	0.0041
72	0.0059	0.0017	0.0042
73	0.0059	0.0018	0.0042
74	0.0060	0.0018	0.0042
75	0.0060	0.0018	0.0042
76	0.0060	0.0018	0.0042
77	0.0061	0.0018	0.0043
78	0.0061	0.0018	0.0043
79	0.0061	0.0018	0.0043
80	0.0062	0.0018	0.0043
81	0.0062	0.0018	0.0044
82	0.0062	0.0018	0.0044
83	0.0063	0.0019	0.0044
84	0.0063	0.0019	0.0045
85	0.0064	0.0019	0.0045
86	0.0064	0.0019	0.0045
87	0.0065	0.0019	0.0045
88	0.0065	0.0019	0.0046
89	0.0065	0.0019	0.0046
90	0.0066	0.0019	0.0046
91	0.0066	0.0020	0.0047
92	0.0066	0.0020	0.0047
93	0.0067	0.0020	0.0047
94	0.0067	0.0020	0.0047
95	0.0068	0.0020	0.0048
96	0.0068	0.0020	0.0048
97	0.0069	0.0020	0.0049
98	0.0069	0.0020	0.0049
99	0.0070	0.0021	0.0049
100	0.0070	0.0021	0.0049
101	0.0071	0.0021	0.0050
102	0.0071	0.0021	0.0050
103	0.0072	0.0021	0.0051
104	0.0072	0.0021	0.0051
105	0.0073	0.0022	0.0051
106	0.0073	0.0022	0.0052
107	0.0074	0.0022	0.0052

108	0.0075	0.0022	0.0052
109	0.0075	0.0022	0.0053
110	0.0076	0.0022	0.0053
111	0.0077	0.0023	0.0054
112	0.0077	0.0023	0.0054
113	0.0078	0.0023	0.0055
114	0.0078	0.0023	0.0055
115	0.0079	0.0023	0.0056
116	0.0080	0.0024	0.0056
117	0.0081	0.0024	0.0057
118	0.0081	0.0024	0.0057
119	0.0082	0.0024	0.0058
120	0.0082	0.0024	0.0058
121	0.0083	0.0025	0.0059
122	0.0084	0.0025	0.0059
123	0.0085	0.0025	0.0060
124	0.0086	0.0025	0.0060
125	0.0087	0.0026	0.0061
126	0.0087	0.0026	0.0061
127	0.0088	0.0026	0.0062
128	0.0089	0.0026	0.0063
129	0.0090	0.0027	0.0064
130	0.0091	0.0027	0.0064
131	0.0092	0.0027	0.0065
132	0.0093	0.0027	0.0065
133	0.0094	0.0028	0.0066
134	0.0095	0.0028	0.0067
135	0.0096	0.0029	0.0068
136	0.0097	0.0029	0.0068
137	0.0099	0.0029	0.0070
138	0.0100	0.0029	0.0070
139	0.0101	0.0030	0.0071
140	0.0102	0.0030	0.0072
141	0.0104	0.0031	0.0073
142	0.0105	0.0031	0.0074
143	0.0106	0.0031	0.0075
144	0.0107	0.0032	0.0076
145	0.0109	0.0032	0.0076
146	0.0110	0.0032	0.0077
147	0.0112	0.0033	0.0079
148	0.0113	0.0033	0.0079
149	0.0115	0.0034	0.0081
150	0.0116	0.0034	0.0082
151	0.0119	0.0035	0.0084
152	0.0120	0.0036	0.0085
153	0.0123	0.0036	0.0086
154	0.0124	0.0037	0.0087
155	0.0127	0.0038	0.0089
156	0.0129	0.0038	0.0091
157	0.0132	0.0039	0.0093
158	0.0133	0.0039	0.0094
159	0.0137	0.0041	0.0096
160	0.0139	0.0041	0.0098
161	0.0143	0.0042	0.0100
162	0.0145	0.0043	0.0102
163	0.0149	0.0044	0.0105
164	0.0151	0.0045	0.0107
165	0.0156	0.0046	0.0110
166	0.0159	0.0047	0.0112

167	0.0164	0.0049	0.0116
168	0.0167	0.0049	0.0118
169	0.0282	0.0083	0.0198
170	0.0285	0.0084	0.0201
171	0.0293	0.0087	0.0207
172	0.0298	0.0088	0.0210
173	0.0307	0.0091	0.0216
174	0.0311	0.0092	0.0219
175	0.0322	0.0095	0.0227
176	0.0328	0.0097	0.0231
177	0.0340	0.0101	0.0239
178	0.0347	0.0103	0.0244
179	0.0362	0.0107	0.0255
180	0.0370	0.0110	0.0261
181	0.0389	0.0115	0.0274
182	0.0400	0.0118	0.0281
183	0.0424	0.0125	0.0299
184	0.0438	0.0130	0.0308
185	0.0263	0.0078	0.0185
186	0.0280	0.0083	0.0197
187	0.0325	0.0096	0.0229
188	0.0355	0.0105	0.0250
189	0.0442	0.0131	0.0311
190	0.0508	0.0150	0.0358
191	0.0771	0.0167	0.0604
192	0.1119	0.0167	0.0952
193	0.4830	0.0167	0.4663
194	0.0607	0.0167	0.0440
195	0.0392	0.0116	0.0276
196	0.0301	0.0089	0.0212
197	0.0454	0.0134	0.0319
198	0.0411	0.0122	0.0290
199	0.0379	0.0112	0.0267
200	0.0354	0.0105	0.0249
201	0.0334	0.0099	0.0235
202	0.0317	0.0094	0.0223
203	0.0302	0.0089	0.0213
204	0.0289	0.0086	0.0204
205	0.0170	0.0050	0.0120
206	0.0161	0.0048	0.0114
207	0.0154	0.0045	0.0108
208	0.0147	0.0043	0.0103
209	0.0141	0.0042	0.0099
210	0.0135	0.0040	0.0095
211	0.0130	0.0038	0.0092
212	0.0126	0.0037	0.0088
213	0.0121	0.0036	0.0085
214	0.0118	0.0035	0.0083
215	0.0114	0.0034	0.0080
216	0.0111	0.0033	0.0078
217	0.0108	0.0032	0.0076
218	0.0106	0.0031	0.0074
219	0.0103	0.0030	0.0072
220	0.0100	0.0030	0.0071
221	0.0098	0.0029	0.0069
222	0.0096	0.0028	0.0067
223	0.0094	0.0028	0.0066
224	0.0092	0.0027	0.0064
225	0.0090	0.0027	0.0063

226	0.0088	0.0026	0.0062
227	0.0086	0.0025	0.0061
228	0.0085	0.0025	0.0060
229	0.0083	0.0025	0.0058
230	0.0081	0.0024	0.0057
231	0.0080	0.0024	0.0056
232	0.0079	0.0023	0.0055
233	0.0077	0.0023	0.0054
234	0.0076	0.0023	0.0054
235	0.0075	0.0022	0.0053
236	0.0074	0.0022	0.0052
237	0.0073	0.0021	0.0051
238	0.0072	0.0021	0.0050
239	0.0071	0.0021	0.0050
240	0.0070	0.0021	0.0049
241	0.0069	0.0020	0.0048
242	0.0068	0.0020	0.0048
243	0.0067	0.0020	0.0047
244	0.0066	0.0019	0.0046
245	0.0065	0.0019	0.0046
246	0.0064	0.0019	0.0045
247	0.0063	0.0019	0.0045
248	0.0063	0.0019	0.0044
249	0.0062	0.0018	0.0044
250	0.0061	0.0018	0.0043
251	0.0061	0.0018	0.0043
252	0.0060	0.0018	0.0042
253	0.0059	0.0018	0.0042
254	0.0059	0.0017	0.0041
255	0.0058	0.0017	0.0041
256	0.0057	0.0017	0.0040
257	0.0057	0.0017	0.0040
258	0.0056	0.0017	0.0040
259	0.0056	0.0016	0.0039
260	0.0055	0.0016	0.0039
261	0.0054	0.0016	0.0038
262	0.0054	0.0016	0.0038
263	0.0053	0.0016	0.0038
264	0.0053	0.0016	0.0037
265	0.0052	0.0016	0.0037
266	0.0052	0.0015	0.0037
267	0.0051	0.0015	0.0036
268	0.0051	0.0015	0.0036
269	0.0051	0.0015	0.0036
270	0.0050	0.0015	0.0035
271	0.0050	0.0015	0.0035
272	0.0049	0.0015	0.0035
273	0.0049	0.0014	0.0034
274	0.0049	0.0014	0.0034
275	0.0048	0.0014	0.0034
276	0.0048	0.0014	0.0034
277	0.0047	0.0014	0.0033
278	0.0047	0.0014	0.0033
279	0.0047	0.0014	0.0033
280	0.0046	0.0014	0.0033
281	0.0046	0.0014	0.0032
282	0.0046	0.0013	0.0032
283	0.0045	0.0013	0.0032
284	0.0045	0.0013	0.0032

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     285              0.0045           0.0013              0.0031
     286              0.0044           0.0013              0.0031
     287              0.0044           0.0013              0.0031
     288              0.0044           0.0013              0.0031
     ---------------------------------------------------------------------
     ---------------------------------------------------------------------
     Total soil rain loss =      0.95(In)
     Total effective rainfall =      2.77(In)
     Peak flow rate in flood hydrograph =   4307.31(CFS)
     ------------------------------------------------------------------------
     ++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                         24 - H O U R    S T O R M
                    R u n o f f      H y d r o g r a p h
     ---------------------------------------------------------------------
                 Hydrograph in   5   Minute intervals ((CFS))

     ---------------------------------------------------------------------
Time(h+m) Volume Ac.Ft   Q(CFS)  0     1100.0    2200.0    3300.0    4400.0
-------------------------------------------------------------------------
  0+ 5       0.0051      0.74  Q         |         |         |         |
  0+10       0.0204      2.22  Q         |         |         |         |
  0+15       0.0481      4.02  Q         |         |         |         |
  0+20       0.0931      6.53  Q         |         |         |         |
  0+25       0.1575      9.36  Q         |         |         |         |
  0+30       0.2458     12.81  Q         |         |         |         |
  0+35       0.3605     16.66  Q         |         |         |         |
  0+40       0.5070     21.27  Q         |         |         |         |
  0+45       0.6886     26.37  Q         |         |         |         |
  0+50       0.9223     33.93  Q         |         |         |         |
  0+55       1.2143     42.41  Q         |         |         |         |
  1+ 0       1.5864     54.03  Q         |         |         |         |
  1+ 5       2.0437     66.39  Q         |         |         |         |
  1+10       2.5843     78.50  Q         |         |         |         |
  1+15       3.2093     90.76  Q         |         |         |         |
  1+20       3.9259    104.05  Q         |         |         |         |
  1+25       4.7439    118.77  VQ        |         |         |         |
  1+30       5.6385    129.89  VQ        |         |         |         |
  1+35       6.5939    138.73  VQ        |         |         |         |
  1+40       7.6012    146.26  VQ        |         |         |         |
  1+45       8.6533    152.76  VQ        |         |         |         |
  1+50       9.7478    158.92  VQ        |         |         |         |
  1+55      10.8790    164.24  VQ        |         |         |         |
  2+ 0      12.0460    169.46  VQ        |         |         |         |
  2+ 5      13.2455    174.16  VQ        |         |         |         |
  2+10      14.4762    178.70  VQ        |         |         |         |
  2+15      15.7358    182.88  VQ        |         |         |         |
  2+20      17.0236    187.00  VQ        |         |         |         |
  2+25      18.3380    190.85  VQ        |         |         |         |
  2+30      19.6785    194.64  VQ        |         |         |         |
  2+35      21.0428    198.10  VQ        |         |         |         |
  2+40      22.4302    201.44  VQ        |         |         |         |
  2+45      23.8403    204.75  VQ        |         |         |         |
  2+50      25.2732    208.05  VQ        |         |         |         |
  2+55      26.7270    211.10  VQ        |         |         |         |
  3+ 0      28.2001    213.89  VQ        |         |         |         |
  3+ 5      29.6924    216.69  VQ        |         |         |         |
  3+10      31.2042    219.51  VQ        |         |         |         |
  3+15      32.7348    222.24  V Q       |         |         |         |
  3+20      34.2826    224.75  V Q       |         |         |         |
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3+25      35.8478    227.27  V Q       |          |          |          |
3+30      37.4305    229.80  V Q       |          |          |          |
3+35      39.0304    232.31  |VQ       |          |          |          |
3+40      40.6465    234.66  |VQ       |          |          |          |
3+45      42.2788    237.00  |VQ       |          |          |          |
3+50      43.9272    239.35  |VQ       |          |          |          |
3+55      45.5918    241.71  |VQ       |          |          |          |
4+ 0      47.2718    243.92  |VQ       |          |          |          |
4+ 5      48.9665    246.08  |VQ       |          |          |          |
4+10      50.6763    248.26  |VQ       |          |          |          |
4+15      52.4012    250.45  |VQ       |          |          |          |
4+20      54.1404    252.53  |VQ       |          |          |          |
4+25      55.8930    254.48  |VQ       |          |          |          |
4+30      57.6592    256.45  |VQ       |          |          |          |
4+35      59.4389    258.43  |VQ       |          |          |          |
4+40      61.2323    260.39  |VQ       |          |          |          |
4+45      63.0386    262.28  |VQ       |          |          |          |
4+50      64.8581    264.19  |VQ       |          |          |          |
4+55      66.6908    266.11  |VQ       |          |          |          |
5+ 0      68.5368    268.03  |VQ       |          |          |          |
5+ 5      70.3955    269.88  |VQ       |          |          |          |
5+10      72.2669    271.74  |VQ       |          |          |          |
5+15      74.1512    273.60  |VQ       |          |          |          |
5+20      76.0485    275.48  |VQ       |          |          |          |
5+25      77.9583    277.31  | Q       |          |          |          |
5+30      79.8807    279.13  | Q       |          |          |          |
5+35      81.8156    280.96  | Q       |          |          |          |
5+40      83.7633    282.81  | Q       |          |          |          |
5+45      85.7233    284.58  | Q       |          |          |          |
5+50      87.6950    286.29  | Q       |          |          |          |
5+55      89.6785    288.01  | Q       |          |          |          |
6+ 0      91.6741    289.76  | Q       |          |          |          |
6+ 5      93.6818    291.51  | Q       |          |          |          |
6+10      95.7018    293.30  | Q       |          |          |          |
6+15      97.7340    295.09  | Q       |          |          |          |
6+20      99.7789    296.91  | Q       |          |          |          |
6+25     101.8362    298.73  | Q       |          |          |          |
6+30     103.9058    300.51  | Q       |          |          |          |
6+35     105.9877    302.29  | Q       |          |          |          |
6+40     108.0821    304.11  | Q       |          |          |          |
6+45     110.1891    305.93  | Q       |          |          |          |
6+50     112.3088    307.78  | Q       |          |          |          |
6+55     114.4413    309.65  | Q       |          |          |          |
7+ 0     116.5870    311.55  | QV      |          |          |          |
7+ 5     118.7458    313.46  | QV      |          |          |          |
7+10     120.9176    315.35  | QV      |          |          |          |
7+15     123.1022    317.21  | QV      |          |          |          |
7+20     125.2999    319.10  | QV      |          |          |          |
7+25     127.5107    321.01  | QV      |          |          |          |
7+30     129.7348    322.95  | QV      |          |          |          |
7+35     131.9724    324.90  | QV      |          |          |          |
7+40     134.2238    326.89  | QV      |          |          |          |
7+45     136.4889    328.90  | QV      |          |          |          |
7+50     138.7681    330.93  |  Q      |          |          |          |
7+55     141.0610    332.94  |  Q      |          |          |          |
8+ 0     143.3680    334.97  |  Q      |          |          |          |
8+ 5     145.6891    337.02  |  Q      |          |          |          |
8+10     148.0246    339.11  |  Q      |          |          |          |
8+15     150.3746    341.22  |  Q      |          |          |          |
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 8+20     152.7394    343.37  |  Q      |         |         |         |
 8+25     155.1191    345.54  |  QV     |         |         |         |
 8+30     157.5141    347.75  |  QV     |         |         |         |
 8+35     159.9245    349.99  |  QV     |         |         |         |
 8+40     162.3506    352.26  |  QV     |         |         |         |
 8+45     164.7924    354.56  |  QV     |         |         |         |
 8+50     167.2505    356.91  |  QV     |         |         |         |
 8+55     169.7248    359.27  |  QV     |         |         |         |
 9+ 0     172.2158    361.69  |  QV     |         |         |         |
 9+ 5     174.7236    364.13  |  QV     |         |         |         |
 9+10     177.2486    366.63  |  QV     |         |         |         |
 9+15     179.7909    369.15  |  QV     |         |         |         |
 9+20     182.3509    371.71  |  QV     |         |         |         |
 9+25     184.9288    374.31  |  QV     |         |         |         |
 9+30     187.5249    376.95  |  QV     |         |         |         |
 9+35     190.1394    379.63  |  QV     |         |         |         |
 9+40     192.7729    382.37  |  Q V    |         |         |         |
 9+45     195.4254    385.15  |  Q V    |         |         |         |
 9+50     198.0974    387.98  |  Q V    |         |         |         |
 9+55     200.7893    390.85  |  Q V    |         |         |         |
10+ 0     203.5010    393.75  |  Q V    |         |         |         |
10+ 5     206.2329    396.66  |  Q V    |         |         |         |
10+10     208.9852    399.64  |  Q V    |         |         |         |
10+15     211.7583    402.65  |  Q V    |         |         |         |
10+20     214.5527    405.75  |  Q V    |         |         |         |
10+25     217.3686    408.88  |  Q V    |         |         |         |
10+30     220.2067    412.09  |  Q V    |         |         |         |
10+35     223.0672    415.35  |  Q V    |         |         |         |
10+40     225.9508    418.69  |  Q V    |         |         |         |
10+45     228.8576    422.08  |  Q V    |         |         |         |
10+50     231.7884    425.55  |  Q  V   |         |         |         |
10+55     234.7435    429.08  |  Q  V   |         |         |         |
11+ 0     237.7236    432.71  |  Q  V   |         |         |         |
11+ 5     240.7288    436.36  |  Q  V   |         |         |         |
11+10     243.7597    440.08  |   Q V   |         |         |         |
11+15     246.8166    443.86  |   Q V   |         |         |         |
11+20     249.9003    447.75  |   Q V   |         |         |         |
11+25     253.0112    451.71  |   Q V   |         |         |         |
11+30     256.1503    455.78  |   Q V   |         |         |         |
11+35     259.3178    459.93  |   Q V   |         |         |         |
11+40     262.5147    464.20  |   Q V   |         |         |         |
11+45     265.7416    468.54  |   Q V   |         |         |         |
11+50     268.9993    473.02  |   Q V   |         |         |         |
11+55     272.2885    477.58  |   Q  V  |         |         |         |
12+ 0     275.6100    482.29  |   Q  V  |         |         |         |
12+ 5     278.9646    487.08  |   Q  V  |         |         |         |
12+10     282.3531    492.01  |   Q  V  |         |         |         |
12+15     285.7761    497.03  |   Q  V  |         |         |         |
12+20     289.2349    502.21  |   Q  V  |         |         |         |
12+25     292.7300    507.50  |   Q  V  |         |         |         |
12+30     296.2628    512.95  |   Q  V  |         |         |         |
12+35     299.8339    518.53  |   Q  V  |         |         |         |
12+40     303.4447    524.29  |   Q  V  |         |         |         |
12+45     307.0960    530.17  |   Q  V  |         |         |         |
12+50     310.7890    536.23  |   Q   V |         |         |         |
12+55     314.5248    542.43  |   Q   V |         |         |         |
13+ 0     318.3044    548.80  |   Q   V |         |         |         |
13+ 5     322.1290    555.33  |    Q  V |         |         |         |
13+10     326.0005    562.14  |    Q  V |         |         |         |
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13+15     329.9201    569.13  |    Q  V |         |         |         |
13+20     333.8898    576.40  |    Q  V |         |         |         |
13+25     337.9109    583.86  |    Q  V |         |         |         |
13+30     341.9861    591.72  |    Q  V |         |         |         |
13+35     346.1174    599.86  |    Q   V|         |         |         |
13+40     350.3075    608.41  |    Q   V|         |         |         |
13+45     354.5585    617.25  |    Q   V|         |         |         |
13+50     358.8734    626.52  |    Q   V|         |         |         |
13+55     363.2545    636.13  |    Q   V|         |         |         |
14+ 0     367.7051    646.22  |    Q   V|         |         |         |
14+ 5     372.2405    658.55  |    Q   V|         |         |         |
14+10     376.8774    673.27  |     Q  V|         |         |         |
14+15     381.6244    689.26  |     Q  V|         |         |         |
14+20     386.4980    707.65  |     Q   V         |         |         |
14+25     391.5074    727.37  |     Q   V         |         |         |
14+30     396.6687    749.41  |     Q   V         |         |         |
14+35     401.9928    773.06  |      Q  V         |         |         |
14+40     407.4992    799.53  |      Q  V         |         |         |
14+45     413.2014    827.96  |      Q  V         |         |         |
14+50     419.1491    863.61  |      Q  V         |         |         |
14+55     425.3646    902.49  |       Q |V        |         |         |
15+ 0     431.9111    950.55  |       Q |V        |         |         |
15+ 5     438.8092   1001.60  |        Q|V        |         |         |
15+10     446.0659   1053.67  |        Q|V        |         |         |
15+15     453.6939   1107.59  |         QV        |         |         |
15+20     461.7253   1166.16  |         Q V       |         |         |
15+25     470.1735   1226.68  |         |QV       |         |         |
15+30     478.9707   1277.35  |         |QV       |         |         |
15+35     488.0845   1323.33  |         | Q       |         |         |
15+40     497.4944   1366.32  |         | Q       |         |         |
15+45     507.1998   1409.22  |         | QV      |         |         |
15+50     517.2145   1454.13  |         |  Q      |         |         |
15+55     527.5811   1505.23  |         |  Q      |         |         |
16+ 0     538.4067   1571.87  |         |   Q     |         |         |
16+ 5     550.3884   1739.75  |         |   VQ    |         |         |
16+10     563.4568   1897.53  |         |   V  Q  |         |         |
16+15     577.2116   1997.20  |         |    V  Q |         |         |
16+20     591.8912   2131.49  |         |    V   Q|         |         |
16+25     607.1572   2216.62  |         |    V    Q         |         |
16+30     623.3442   2350.35  |         |     V   |Q        |         |
16+35     640.2756   2458.44  |         |     V   | Q       |         |
16+40     658.3756   2628.11  |         |      V  |  Q      |         |
16+45     677.5038   2777.42  |         |      V  |    Q    |         |
16+50     699.5698   3203.98  |         |       V |        Q|         |
16+55     723.2987   3445.44  |         |       V |         |Q        |
17+ 0     750.3961   3934.54  |         |        V|         |    Q    |
17+ 5     778.3934   4065.20  |         |         V         |     Q   |
17+10     806.2928   4051.00  |         |         V         |     Q   |
17+15     834.4659   4090.73  |         |         |V        |      Q  |
17+20     863.5152   4217.96  |         |         | V       |       Q |
17+25     893.1799   4307.31  |         |         |  V      |        Q|
17+30     918.7254   3709.21  |         |         |  V      |  Q      |
17+35     941.3937   3291.44  |         |         |   V    Q|         |
17+40     962.2597   3029.74  |         |         |    V Q  |         |
17+45     981.7581   2831.17  |         |         |    Q    |         |
17+50    1000.4248   2710.41  |         |         |   Q V   |         |
17+55    1017.8251   2526.51  |         |         | Q   V   |         |
18+ 0    1034.5640   2430.49  |         |         | Q   V   |         |
18+ 5    1050.2999   2284.85  |         |         Q      V  |         |
```

```
18+10    1065.3596   2186.67  |         |        Q|      V  |         |
18+15    1079.5971   2067.28  |         |       Q |       V |         |
18+20    1093.2802   1986.79  |         |       Q |       V |         |
18+25    1106.2257   1879.70  |         |      Q  |       V |         |
18+30    1118.6610   1805.61  |         |     Q   |        V|         |
18+35    1130.4225   1707.77  |         |    Q    |        V|         |
18+40    1141.7506   1644.84  |         |   Q     |        V|         |
18+45    1152.7514   1597.31  |         |   Q     |        V|         |
18+50    1163.4285   1550.31  |         |   Q     |         V         |
18+55    1173.5756   1473.36  |         |  Q      |         V         |
19+ 0    1183.2353   1402.58  |         | Q       |         V         |
19+ 5    1192.6807   1371.47  |         | Q       |         |V        |
19+10    1201.9111   1340.26  |         | Q       |         |V        |
19+15    1210.8322   1295.34  |         |Q        |         |V        |
19+20    1219.3396   1235.26  |         |Q        |         |V        |
19+25    1227.6625   1208.49  |         Q         |         |V        |
19+30    1235.8130   1183.46  |         Q         |         | V       |
19+35    1243.7601   1153.92  |         Q         |         | V       |
19+40    1251.3835   1106.91  |         Q         |         | V       |
19+45    1258.8328   1081.64  |        Q|         |         | V       |
19+50    1266.1347   1060.24  |        Q|         |         | V       |
19+55    1273.2760   1036.92  |        Q|         |         |  V      |
20+ 0    1280.1274    994.82  |        Q|         |         |  V      |
20+ 5    1286.7889    967.25  |       Q |         |         |  V      |
20+10    1293.3222    948.63  |       Q |         |         |  V      |
20+15    1299.7171    928.54  |       Q |         |         |  V      |
20+20    1305.8529    890.93  |       Q |         |         |  V      |
20+25    1311.7491    856.12  |      Q  |         |         |   V     |
20+30    1317.5367    840.37  |      Q  |         |         |   V     |
20+35    1323.2173    824.83  |      Q  |         |         |   V     |
20+40    1328.7586    804.59  |      Q  |         |         |   V     |
20+45    1334.1240    779.06  |      Q  |         |         |   V     |
20+50    1339.3921    764.93  |     Q   |         |         |   V     |
20+55    1344.5657    751.21  |     Q   |         |         |   V     |
21+ 0    1349.6296    735.27  |     Q   |         |         |    V    |
21+ 5    1354.5264    711.01  |     Q   |         |         |    V    |
21+10    1359.3300    697.48  |     Q   |         |         |    V    |
21+15    1364.0535    685.86  |     Q   |         |         |    V    |
21+20    1368.6920    673.50  |     Q   |         |         |    V    |
21+25    1373.1890    652.98  |    Q    |         |         |    V    |
21+30    1377.5865    638.52  |    Q    |         |         |    V    |
21+35    1381.9094    627.67  |    Q    |         |         |    V    |
21+40    1386.1496    615.68  |    Q    |         |         |     V   |
21+45    1390.2278    592.15  |    Q    |         |         |     V   |
21+50    1394.1581    570.68  |    Q    |         |         |     V   |
21+55    1398.0278    561.88  |    Q    |         |         |     V   |
22+ 0    1401.8424    553.88  |    Q    |         |         |     V   |
22+ 5    1405.6031    546.06  |   Q     |         |         |     V   |
22+10    1409.3087    538.05  |   Q     |         |         |     V   |
22+15    1412.9596    530.11  |   Q     |         |         |     V   |
22+20    1416.5529    521.74  |   Q     |         |         |     V   |
22+25    1420.0763    511.60  |   Q     |         |         |     V   |
22+30    1423.4893    495.57  |   Q     |         |         |      V  |
22+35    1426.8462    487.43  |   Q     |         |         |      V  |
22+40    1430.1601    481.17  |   Q     |         |         |      V  |
22+45    1433.4337    475.33  |   Q     |         |         |      V  |
22+50    1436.6672    469.51  |   Q     |         |         |      V  |
22+55    1439.8604    463.64  |   Q     |         |         |      V  |
23+ 0    1443.0110    457.47  |   Q     |         |         |      V  |
```

```
23+ 5    1446.1136    450.50  |   Q     |         |         |      V  |
23+10    1449.1254    437.31  |  Q      |         |         |      V  |
23+15    1452.0548    425.34  |  Q      |         |         |      V  |
23+20    1454.9489    420.23  |  Q      |         |         |      V  |
23+25    1457.8107    415.54  |  Q      |         |         |      V  |
23+30    1460.6411    410.97  |  Q      |         |         |       V |
23+35    1463.4392    406.28  |  Q      |         |         |       V |
23+40    1466.2049    401.59  |  Q      |         |         |       V |
23+45    1468.9359    396.54  |  Q      |         |         |       V |
23+50    1471.6220    390.01  |  Q      |         |         |       V |
23+55    1474.2310    378.83  |  Q      |         |         |       V |
24+ 0    1476.8023    373.35  |  Q      |         |         |       V |
24+ 5    1479.3401    368.49  |  Q      |         |         |       V |
24+10    1481.8415    363.20  |  Q      |         |         |       V |
24+15    1484.3046    357.65  |  Q      |         |         |       V |
24+20    1486.7253    351.49  |  Q      |         |         |       V |
24+25    1489.1022    345.12  |  Q      |         |         |       V |
24+30    1491.4315    338.21  |  Q      |         |         |       V |
24+35    1493.7102    330.87  |  Q      |         |         |       V |
24+40    1495.9342    322.92  | Q       |         |         |       V |
24+45    1498.1020    314.76  | Q       |         |         |       V |
24+50    1500.1974    304.26  | Q       |         |         |        V|
24+55    1502.2158    293.07  | Q       |         |         |        V|
25+ 0    1504.1364    278.86  | Q       |         |         |        V|
25+ 5    1505.9543    263.97  | Q       |         |         |        V|
25+10    1507.6713    249.31  | Q       |         |         |        V|
25+15    1509.2853    234.35  | Q       |         |         |        V|
25+20    1510.7860    217.91  |Q        |         |         |        V|
25+25    1512.1719    201.23  |Q        |         |         |        V|
25+30    1513.4700    188.49  |Q        |         |         |        V|
25+35    1514.6969    178.14  |Q        |         |         |        V|
25+40    1515.8615    169.09  |Q        |         |         |        V|
25+45    1516.9709    161.09  |Q        |         |         |        V|
25+50    1518.0258    153.18  |Q        |         |         |        V|
25+55    1519.0322    146.12  |Q        |         |         |        V|
26+ 0    1519.9484    133.04  |Q        |         |         |        V|
26+ 5    1520.7969    123.19  |Q        |         |         |        V|
26+10    1521.6055    117.41  |Q        |         |         |        V|
26+15    1522.3788    112.29  |Q        |         |         |        V|
26+20    1523.1170    107.18  Q         |         |         |        V|
26+25    1523.8226    102.45  Q         |         |         |        V|
26+30    1524.4975     98.00  Q         |         |         |        V|
26+35    1525.1443     93.92  Q         |         |         |        V|
26+40    1525.7641     89.99  Q         |         |         |        V|
26+45    1526.3570     86.09  Q         |         |         |        V|
26+50    1526.9229     82.17  Q         |         |         |        V|
26+55    1527.4619     78.27  Q         |         |         |        V|
27+ 0    1527.9732     74.23  Q         |         |         |        V|
27+ 5    1528.4308     66.44  Q         |         |         |        V|
27+10    1528.8383     59.17  Q         |         |         |        V|
27+15    1529.2253     56.19  Q         |         |         |        V|
27+20    1529.5952     53.70  Q         |         |         |        V|
27+25    1529.9478     51.20  Q         |         |         |        V|
27+30    1530.2828     48.65  Q         |         |         |        V|
27+35    1530.6010     46.20  Q         |         |         |        V|
27+40    1530.9040     44.00  Q         |         |         |        V|
27+45    1531.1924     41.87  Q         |         |         |        V|
27+50    1531.4664     39.78  Q         |         |         |        V|
27+55    1531.7263     37.75  Q         |         |         |        V|
```

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28+ 0    1531.9736     35.90  Q          |          |          |         V|
28+ 5    1532.2094     34.23  Q          |          |          |         V|
28+10    1532.4343     32.66  Q          |          |          |         V|
28+15    1532.6485     31.11  Q          |          |          |         V|
28+20    1532.8532     29.72  Q          |          |          |         V|
28+25    1533.0493     28.48  Q          |          |          |         V|
28+30    1533.2371     27.27  Q          |          |          |         V|
28+35    1533.4166     26.07  Q          |          |          |         V|
28+40    1533.5883     24.92  Q          |          |          |         V|
28+45    1533.7527     23.87  Q          |          |          |         V|
28+50    1533.9100     22.84  Q          |          |          |         V|
28+55    1534.0603     21.83  Q          |          |          |         V|
29+ 0    1534.2039     20.84  Q          |          |          |         V|
29+ 5    1534.3413     19.95  Q          |          |          |         V|
29+10    1534.4727     19.08  Q          |          |          |         V|
29+15    1534.5982     18.23  Q          |          |          |         V|
29+20    1534.7180     17.39  Q          |          |          |         V|
29+25    1534.8325     16.63  Q          |          |          |         V|
29+30    1534.9421     15.91  Q          |          |          |         V|
29+35    1535.0467     15.19  Q          |          |          |         V|
29+40    1535.1464     14.48  Q          |          |          |         V|
29+45    1535.2420     13.87  Q          |          |          |         V|
29+50    1535.3339     13.35  Q          |          |          |         V|
29+55    1535.4224     12.85  Q          |          |          |         V|
30+ 0    1535.5074     12.34  Q          |          |          |         V|
30+ 5    1535.5890     11.84  Q          |          |          |         V|
30+10    1535.6671     11.35  Q          |          |          |         V|
30+15    1535.7420     10.86  Q          |          |          |         V|
30+20    1535.8135     10.38  Q          |          |          |         V|
30+25    1535.8818      9.92  Q          |          |          |         V|
30+30    1535.9474      9.52  Q          |          |          |         V|
30+35    1536.0103      9.14  Q          |          |          |         V|
30+40    1536.0706      8.76  Q          |          |          |         V|
30+45    1536.1284      8.39  Q          |          |          |         V|
30+50    1536.1836      8.02  Q          |          |          |         V|
30+55    1536.2363      7.65  Q          |          |          |         V|
31+ 0    1536.2865      7.29  Q          |          |          |         V|
31+ 5    1536.3342      6.93  Q          |          |          |         V|
31+10    1536.3798      6.62  Q          |          |          |         V|
31+15    1536.4237      6.37  Q          |          |          |         V|
31+20    1536.4657      6.11  Q          |          |          |         V|
31+25    1536.5061      5.86  Q          |          |          |         V|
31+30    1536.5447      5.61  Q          |          |          |         V|
31+35    1536.5817      5.36  Q          |          |          |         V|
31+40    1536.6169      5.12  Q          |          |          |         V|
31+45    1536.6505      4.88  Q          |          |          |         V|
31+50    1536.6825      4.64  Q          |          |          |         V|
31+55    1536.7132      4.46  Q          |          |          |         V|
32+ 0    1536.7428      4.29  Q          |          |          |         V|
32+ 5    1536.7711      4.12  Q          |          |          |         V|
32+10    1536.7984      3.95  Q          |          |          |         V|
32+15    1536.8244      3.79  Q          |          |          |         V|
32+20    1536.8494      3.62  Q          |          |          |         V|
32+25    1536.8732      3.46  Q          |          |          |         V|
32+30    1536.8958      3.29  Q          |          |          |         V|
32+35    1536.9174      3.13  Q          |          |          |         V|
32+40    1536.9379      2.98  Q          |          |          |         V|
32+45    1536.9574      2.82  Q          |          |          |         V|
32+50    1536.9757      2.67  Q          |          |          |         V|
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   32+55    1536.9931      2.51  Q         |         |         |        V|
   33+ 0    1537.0093      2.36  Q         |         |         |        V|
   33+ 5    1537.0246      2.21  Q         |         |         |        V|
   33+10    1537.0388      2.06  Q         |         |         |        V|
   33+15    1537.0520      1.92  Q         |         |         |        V|
   33+20    1537.0642      1.78  Q         |         |         |        V|
   33+25    1537.0756      1.64  Q         |         |         |        V|
   33+30    1537.0860      1.51  Q         |         |         |        V|
   33+35    1537.0954      1.38  Q         |         |         |        V|
   33+40    1537.1040      1.25  Q         |         |         |        V|
   33+45    1537.1117      1.11  Q         |         |         |        V|
   33+50    1537.1185      0.98  Q         |         |         |        V|
   33+55    1537.1243      0.85  Q         |         |         |        V|
   34+ 0    1537.1296      0.76  Q         |         |         |        V|
   34+ 5    1537.1344      0.70  Q         |         |         |        V|
   34+10    1537.1387      0.63  Q         |         |         |        V|
   34+15    1537.1427      0.57  Q         |         |         |        V|
   34+20    1537.1462      0.51  Q         |         |         |        V|
   34+25    1537.1493      0.45  Q         |         |         |        V|
   34+30    1537.1519      0.39  Q         |         |         |        V|
   34+35    1537.1542      0.33  Q         |         |         |        V|
   34+40    1537.1560      0.27  Q         |         |         |        V|
   34+45    1537.1574      0.21  Q         |         |         |        V|
   34+50    1537.1584      0.15  Q         |         |         |        V|
   34+55    1537.1590      0.09  Q         |         |         |        V|
   35+ 0    1537.1592      0.03  Q         |         |         |         V
----------------------------------------------------------------------
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U n i t H y d r o g r a p h A n a l y s i s

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Study date 08/10/17

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San Bernardino County Synthetic Unit Hydrology Method
Manual date - August 1986

Program License Serial Number 6320

164309 - NRG COOLWATER SOLAR FACILITY - DAGGETT, CA
OFFSITE AREA "E"
100-YEAR, 24-HOUR STORM EVENT
BY: JDN, DATE: 08-10-17

Storm Event Year = 100

Antecedent Moisture Condition = 3

English (in-lb) Input Units Used

English Rainfall Data (Inches) Input Values Used

English Units used in output format

Area averaged rainfall intensity isohyetal data:

Sub-Area (Ac.)	Duration (hours)	Isohyetal (In)
Rainfall data for year 100		
3444.14	1	1.45
Rainfall data for year 100		
3444.14	6	2.64
Rainfall data for year 100		
3444.14	24	4.24

++

******** Area-averaged max loss rate, Fm ********

SCS curve No.(AMCII)	SCS curve NO.(AMC 3)	Area (Ac.)	Area Fraction	Fp(Fig C6) (In/Hr)	Ap (dec.)	Fm (In/Hr)
88.0	97.6	3444.14	1.000	0.048	1.000	0.048

Area-averaged adjusted loss rate Fm (In/Hr) = 0.048

********* Area-Averaged low loss rate fraction, Yb **********

Area (Ac.)	Area Fract	SCS CN (AMC2)	SCS CN (AMC3)	S	Pervious Yield Fr
3444.14	1.000	88.0	97.6	0.25	0.934

Area-averaged catchment yield fraction, Y = 0.934
Area-averaged low loss fraction, Yb = 0.066
++
Watercourse length = 24414.00(Ft.)
Length from concentration point to centroid = 13905.00(Ft.)
Elevation difference along watercourse = 1760.00(Ft.)
Mannings friction factor along watercourse = 0.035
Watershed area = 3444.14(Ac.)
Catchment Lag time = 0.702 hours
Unit interval = 5.000 minutes
Unit interval percentage of lag time = 11.8667
Hydrograph baseflow = 0.00(CFS)
Average maximum watershed loss rate(Fm) = 0.048(In/Hr)
Average low loss rate fraction (Yb) = 0.066 (decimal)
VALLEY DEVELOPED S-Graph proportion = 0.000
VALLEY UNDEVELOPED S-Graph proportion = 0.000
FOOTHILL S-Graph proportion = 0.950
MOUNTAIN S-Graph proportion = 0.000
DESERT S-Graph proportion = 0.050

Computed peak 5-minute rainfall = 0.689(In)
Computed peak 30-minute rainfall = 1.179(In)
Specified peak 1-hour rainfall = 1.451(In)
Computed peak 3-hour rainfall = 2.092(In)
Specified peak 6-hour rainfall = 2.636(In)
Specified peak 24-hour rainfall = 4.235(In)

Rainfall depth area reduction factors:
Using a total area of 3444.14(Ac.) (Ref: fig. E-4)

5-minute factor = 0.842 Adjusted rainfall = 0.580(In)
30-minute factor = 0.842 Adjusted rainfall = 0.992(In)
1-hour factor = 0.842 Adjusted rainfall = 1.222(In)
3-hour factor = 0.980 Adjusted rainfall = 2.050(In)
6-hour factor = 0.989 Adjusted rainfall = 2.608(In)
24-hour factor = 0.996 Adjusted rainfall = 4.216(In)

U n i t H y d r o g r a p h
++
Interval Number	'S' Graph Mean values	Unit Hydrograph ((CFS))
	(K = 41652.57 (CFS))	
1	0.740	308.265
2	2.435	705.927
3	4.806	987.787
4	7.863	1273.040
5	11.639	1573.119
6	16.946	2210.217

7	23.871	2884.545
8	34.448	4405.419
9	49.916	6443.142
10	57.976	3356.832
11	63.349	2238.239
12	67.615	1776.795
13	71.209	1496.913
14	74.138	1220.236
15	76.904	1151.984
16	79.250	977.265
17	81.421	904.052
18	83.294	780.513
19	84.996	708.703
20	86.544	644.903
21	87.961	590.169
22	89.257	539.866
23	90.397	474.770
24	91.472	447.535
25	92.424	396.621
26	93.323	374.716
27	94.088	318.507
28	94.811	301.075
29	95.399	244.948
30	95.961	234.175
31	96.452	204.519
32	96.921	195.125
33	97.287	152.708
34	97.621	139.039
35	97.823	84.187
36	97.979	64.750
37	98.134	64.750
38	98.289	64.715
39	98.429	58.206
40	98.557	53.382
41	98.685	53.382
42	98.814	53.382
43	98.923	45.611
44	99.002	32.811
45	99.080	32.622
46	99.159	32.622
47	99.241	34.197
48	99.336	39.587
49	99.432	40.037
50	99.528	40.037
51	99.620	38.280
52	99.679	24.633
53	99.731	21.748
54	99.783	21.748
55	99.835	21.511
56	99.872	15.178
57	99.901	12.357
58	99.931	12.357
59	99.972	16.945
60	99.977	2.239
61	99.981	1.545
62	99.984	1.545
63	99.988	1.545
64	99.992	1.545
65	99.995	1.545

66	100.000	0.772

Peak Unit Number	Adjusted mass rainfall (In)	Unit rainfall (In)
1	0.5797	0.5797
2	0.7137	0.1340
3	0.8060	0.0923
4	0.8787	0.0727
5	0.9395	0.0608
6	0.9924	0.0528
7	1.0393	0.0470
8	1.0818	0.0425
9	1.1207	0.0389
10	1.1567	0.0360
11	1.1902	0.0336
12	1.2217	0.0315
13	1.2687	0.0469
14	1.3137	0.0451
15	1.3571	0.0434
16	1.3990	0.0419
17	1.4396	0.0405
18	1.4789	0.0393
19	1.5170	0.0382
20	1.5541	0.0371
21	1.5902	0.0361
22	1.6255	0.0352
23	1.6599	0.0344
24	1.6935	0.0336
25	1.7264	0.0329
26	1.7586	0.0322
27	1.7901	0.0315
28	1.8210	0.0309
29	1.8514	0.0304
30	1.8812	0.0298
31	1.9105	0.0293
32	1.9393	0.0288
33	1.9676	0.0283
34	1.9955	0.0279
35	2.0229	0.0274
36	2.0499	0.0270
37	2.0695	0.0196
38	2.0888	0.0193
39	2.1077	0.0189
40	2.1263	0.0186
41	2.1447	0.0183
42	2.1627	0.0180
43	2.1804	0.0178
44	2.1979	0.0175
45	2.2152	0.0172
46	2.2321	0.0170
47	2.2489	0.0167
48	2.2654	0.0165
49	2.2817	0.0163
50	2.2977	0.0161
51	2.3136	0.0159
52	2.3293	0.0157
53	2.3447	0.0155
54	2.3600	0.0153
55	2.3751	0.0151

56	2.3900	0.0149
57	2.4047	0.0147
58	2.4193	0.0146
59	2.4337	0.0144
60	2.4480	0.0143
61	2.4621	0.0141
62	2.4760	0.0139
63	2.4898	0.0138
64	2.5035	0.0137
65	2.5170	0.0135
66	2.5304	0.0134
67	2.5436	0.0133
68	2.5568	0.0131
69	2.5698	0.0130
70	2.5826	0.0129
71	2.5954	0.0128
72	2.6080	0.0126
73	2.6205	0.0125
74	2.6329	0.0124
75	2.6452	0.0123
76	2.6574	0.0122
77	2.6694	0.0121
78	2.6814	0.0120
79	2.6932	0.0119
80	2.7050	0.0118
81	2.7167	0.0117
82	2.7283	0.0116
83	2.7397	0.0115
84	2.7511	0.0114
85	2.7624	0.0113
86	2.7737	0.0112
87	2.7848	0.0111
88	2.7958	0.0111
89	2.8068	0.0110
90	2.8177	0.0109
91	2.8285	0.0108
92	2.8392	0.0107
93	2.8499	0.0107
94	2.8605	0.0106
95	2.8710	0.0105
96	2.8814	0.0104
97	2.8918	0.0104
98	2.9021	0.0103
99	2.9123	0.0102
100	2.9225	0.0102
101	2.9326	0.0101
102	2.9426	0.0100
103	2.9526	0.0100
104	2.9625	0.0099
105	2.9723	0.0098
106	2.9821	0.0098
107	2.9918	0.0097
108	3.0015	0.0097
109	3.0111	0.0096
110	3.0206	0.0095
111	3.0301	0.0095
112	3.0395	0.0094
113	3.0489	0.0094
114	3.0582	0.0093

115	3.0675	0.0093
116	3.0767	0.0092
117	3.0859	0.0092
118	3.0950	0.0091
119	3.1041	0.0091
120	3.1131	0.0090
121	3.1220	0.0090
122	3.1310	0.0089
123	3.1398	0.0089
124	3.1487	0.0088
125	3.1574	0.0088
126	3.1662	0.0087
127	3.1748	0.0087
128	3.1835	0.0086
129	3.1921	0.0086
130	3.2006	0.0086
131	3.2092	0.0085
132	3.2176	0.0085
133	3.2260	0.0084
134	3.2344	0.0084
135	3.2428	0.0083
136	3.2511	0.0083
137	3.2593	0.0083
138	3.2676	0.0082
139	3.2758	0.0082
140	3.2839	0.0081
141	3.2920	0.0081
142	3.3001	0.0081
143	3.3081	0.0080
144	3.3161	0.0080
145	3.3241	0.0080
146	3.3320	0.0079
147	3.3399	0.0079
148	3.3478	0.0079
149	3.3556	0.0078
150	3.3634	0.0078
151	3.3711	0.0078
152	3.3788	0.0077
153	3.3865	0.0077
154	3.3942	0.0077
155	3.4018	0.0076
156	3.4094	0.0076
157	3.4169	0.0076
158	3.4245	0.0075
159	3.4320	0.0075
160	3.4394	0.0075
161	3.4469	0.0074
162	3.4543	0.0074
163	3.4616	0.0074
164	3.4690	0.0073
165	3.4763	0.0073
166	3.4836	0.0073
167	3.4908	0.0073
168	3.4981	0.0072
169	3.5053	0.0072
170	3.5124	0.0072
171	3.5196	0.0071
172	3.5267	0.0071
173	3.5338	0.0071

174	3.5409	0.0071
175	3.5479	0.0070
176	3.5549	0.0070
177	3.5619	0.0070
178	3.5689	0.0070
179	3.5758	0.0069
180	3.5827	0.0069
181	3.5896	0.0069
182	3.5965	0.0069
183	3.6033	0.0068
184	3.6101	0.0068
185	3.6169	0.0068
186	3.6237	0.0068
187	3.6304	0.0067
188	3.6371	0.0067
189	3.6438	0.0067
190	3.6505	0.0067
191	3.6571	0.0066
192	3.6637	0.0066
193	3.6703	0.0066
194	3.6769	0.0066
195	3.6835	0.0066
196	3.6900	0.0065
197	3.6965	0.0065
198	3.7030	0.0065
199	3.7095	0.0065
200	3.7159	0.0064
201	3.7224	0.0064
202	3.7288	0.0064
203	3.7352	0.0064
204	3.7415	0.0064
205	3.7479	0.0063
206	3.7542	0.0063
207	3.7605	0.0063
208	3.7668	0.0063
209	3.7731	0.0063
210	3.7793	0.0062
211	3.7855	0.0062
212	3.7917	0.0062
213	3.7979	0.0062
214	3.8041	0.0062
215	3.8102	0.0062
216	3.8164	0.0061
217	3.8225	0.0061
218	3.8286	0.0061
219	3.8347	0.0061
220	3.8407	0.0061
221	3.8468	0.0060
222	3.8528	0.0060
223	3.8588	0.0060
224	3.8648	0.0060
225	3.8707	0.0060
226	3.8767	0.0060
227	3.8826	0.0059
228	3.8886	0.0059
229	3.8945	0.0059
230	3.9003	0.0059
231	3.9062	0.0059
232	3.9121	0.0059

233	3.9179	0.0058
234	3.9237	0.0058
235	3.9295	0.0058
236	3.9353	0.0058
237	3.9411	0.0058
238	3.9468	0.0058
239	3.9526	0.0057
240	3.9583	0.0057
241	3.9640	0.0057
242	3.9697	0.0057
243	3.9754	0.0057
244	3.9810	0.0057
245	3.9867	0.0056
246	3.9923	0.0056
247	3.9979	0.0056
248	4.0035	0.0056
249	4.0091	0.0056
250	4.0147	0.0056
251	4.0202	0.0056
252	4.0258	0.0055
253	4.0313	0.0055
254	4.0368	0.0055
255	4.0423	0.0055
256	4.0478	0.0055
257	4.0533	0.0055
258	4.0587	0.0055
259	4.0642	0.0054
260	4.0696	0.0054
261	4.0750	0.0054
262	4.0804	0.0054
263	4.0858	0.0054
264	4.0912	0.0054
265	4.0966	0.0054
266	4.1019	0.0054
267	4.1073	0.0053
268	4.1126	0.0053
269	4.1179	0.0053
270	4.1232	0.0053
271	4.1285	0.0053
272	4.1337	0.0053
273	4.1390	0.0053
274	4.1443	0.0052
275	4.1495	0.0052
276	4.1547	0.0052
277	4.1599	0.0052
278	4.1651	0.0052
279	4.1703	0.0052
280	4.1755	0.0052
281	4.1806	0.0052
282	4.1858	0.0051
283	4.1909	0.0051
284	4.1961	0.0051
285	4.2012	0.0051
286	4.2063	0.0051
287	4.2114	0.0051
288	4.2164	0.0051

Unit Period	Unit Rainfall	Unit Soil-Loss	Effective Rainfall

(number)	(In)	(In)	(In)
1	0.0051	0.0003	0.0047
2	0.0051	0.0003	0.0048
3	0.0051	0.0003	0.0048
4	0.0051	0.0003	0.0048
5	0.0051	0.0003	0.0048
6	0.0052	0.0003	0.0048
7	0.0052	0.0003	0.0048
8	0.0052	0.0003	0.0049
9	0.0052	0.0003	0.0049
10	0.0052	0.0003	0.0049
11	0.0053	0.0003	0.0049
12	0.0053	0.0004	0.0049
13	0.0053	0.0004	0.0049
14	0.0053	0.0004	0.0050
15	0.0053	0.0004	0.0050
16	0.0054	0.0004	0.0050
17	0.0054	0.0004	0.0050
18	0.0054	0.0004	0.0050
19	0.0054	0.0004	0.0051
20	0.0054	0.0004	0.0051
21	0.0055	0.0004	0.0051
22	0.0055	0.0004	0.0051
23	0.0055	0.0004	0.0051
24	0.0055	0.0004	0.0051
25	0.0055	0.0004	0.0052
26	0.0056	0.0004	0.0052
27	0.0056	0.0004	0.0052
28	0.0056	0.0004	0.0052
29	0.0056	0.0004	0.0053
30	0.0056	0.0004	0.0053
31	0.0057	0.0004	0.0053
32	0.0057	0.0004	0.0053
33	0.0057	0.0004	0.0053
34	0.0057	0.0004	0.0054
35	0.0058	0.0004	0.0054
36	0.0058	0.0004	0.0054
37	0.0058	0.0004	0.0054
38	0.0058	0.0004	0.0054
39	0.0059	0.0004	0.0055
40	0.0059	0.0004	0.0055
41	0.0059	0.0004	0.0055
42	0.0059	0.0004	0.0055
43	0.0060	0.0004	0.0056
44	0.0060	0.0004	0.0056
45	0.0060	0.0004	0.0056
46	0.0060	0.0004	0.0056
47	0.0061	0.0004	0.0057
48	0.0061	0.0004	0.0057
49	0.0061	0.0004	0.0057
50	0.0062	0.0004	0.0057
51	0.0062	0.0004	0.0058
52	0.0062	0.0004	0.0058
53	0.0062	0.0004	0.0058
54	0.0063	0.0004	0.0058
55	0.0063	0.0004	0.0059
56	0.0063	0.0004	0.0059
57	0.0064	0.0004	0.0059

58	0.0064	0.0004	0.0060
59	0.0064	0.0004	0.0060
60	0.0064	0.0004	0.0060
61	0.0065	0.0004	0.0061
62	0.0065	0.0004	0.0061
63	0.0066	0.0004	0.0061
64	0.0066	0.0004	0.0061
65	0.0066	0.0004	0.0062
66	0.0066	0.0004	0.0062
67	0.0067	0.0004	0.0062
68	0.0067	0.0004	0.0063
69	0.0068	0.0004	0.0063
70	0.0068	0.0005	0.0063
71	0.0068	0.0005	0.0064
72	0.0069	0.0005	0.0064
73	0.0069	0.0005	0.0065
74	0.0069	0.0005	0.0065
75	0.0070	0.0005	0.0065
76	0.0070	0.0005	0.0065
77	0.0071	0.0005	0.0066
78	0.0071	0.0005	0.0066
79	0.0071	0.0005	0.0067
80	0.0072	0.0005	0.0067
81	0.0072	0.0005	0.0067
82	0.0073	0.0005	0.0068
83	0.0073	0.0005	0.0068
84	0.0073	0.0005	0.0069
85	0.0074	0.0005	0.0069
86	0.0074	0.0005	0.0069
87	0.0075	0.0005	0.0070
88	0.0075	0.0005	0.0070
89	0.0076	0.0005	0.0071
90	0.0076	0.0005	0.0071
91	0.0077	0.0005	0.0072
92	0.0077	0.0005	0.0072
93	0.0078	0.0005	0.0073
94	0.0078	0.0005	0.0073
95	0.0079	0.0005	0.0074
96	0.0079	0.0005	0.0074
97	0.0080	0.0005	0.0075
98	0.0080	0.0005	0.0075
99	0.0081	0.0005	0.0076
100	0.0081	0.0005	0.0076
101	0.0082	0.0005	0.0077
102	0.0083	0.0005	0.0077
103	0.0083	0.0006	0.0078
104	0.0084	0.0006	0.0078
105	0.0085	0.0006	0.0079
106	0.0085	0.0006	0.0079
107	0.0086	0.0006	0.0080
108	0.0086	0.0006	0.0081
109	0.0087	0.0006	0.0082
110	0.0088	0.0006	0.0082
111	0.0089	0.0006	0.0083
112	0.0089	0.0006	0.0083
113	0.0090	0.0006	0.0084
114	0.0091	0.0006	0.0085
115	0.0092	0.0006	0.0086
116	0.0092	0.0006	0.0086

117	0.0093	0.0006	0.0087
118	0.0094	0.0006	0.0088
119	0.0095	0.0006	0.0089
120	0.0095	0.0006	0.0089
121	0.0097	0.0006	0.0090
122	0.0097	0.0006	0.0091
123	0.0098	0.0007	0.0092
124	0.0099	0.0007	0.0092
125	0.0100	0.0007	0.0094
126	0.0101	0.0007	0.0094
127	0.0102	0.0007	0.0095
128	0.0103	0.0007	0.0096
129	0.0104	0.0007	0.0097
130	0.0105	0.0007	0.0098
131	0.0107	0.0007	0.0099
132	0.0107	0.0007	0.0100
133	0.0109	0.0007	0.0102
134	0.0110	0.0007	0.0102
135	0.0111	0.0007	0.0104
136	0.0112	0.0007	0.0105
137	0.0114	0.0008	0.0106
138	0.0115	0.0008	0.0107
139	0.0117	0.0008	0.0109
140	0.0118	0.0008	0.0110
141	0.0120	0.0008	0.0112
142	0.0121	0.0008	0.0113
143	0.0123	0.0008	0.0115
144	0.0124	0.0008	0.0116
145	0.0126	0.0008	0.0118
146	0.0128	0.0008	0.0119
147	0.0130	0.0009	0.0121
148	0.0131	0.0009	0.0123
149	0.0134	0.0009	0.0125
150	0.0135	0.0009	0.0126
151	0.0138	0.0009	0.0129
152	0.0139	0.0009	0.0130
153	0.0143	0.0009	0.0133
154	0.0144	0.0010	0.0135
155	0.0147	0.0010	0.0138
156	0.0149	0.0010	0.0139
157	0.0153	0.0010	0.0143
158	0.0155	0.0010	0.0144
159	0.0159	0.0011	0.0148
160	0.0161	0.0011	0.0150
161	0.0165	0.0011	0.0154
162	0.0167	0.0011	0.0156
163	0.0172	0.0011	0.0161
164	0.0175	0.0012	0.0163
165	0.0180	0.0012	0.0168
166	0.0183	0.0012	0.0171
167	0.0189	0.0013	0.0177
168	0.0193	0.0013	0.0180
169	0.0270	0.0018	0.0252
170	0.0274	0.0018	0.0256
171	0.0283	0.0019	0.0264
172	0.0288	0.0019	0.0269
173	0.0298	0.0020	0.0278
174	0.0304	0.0020	0.0283
175	0.0315	0.0021	0.0294

176	0.0322	0.0021	0.0301
177	0.0336	0.0022	0.0314
178	0.0344	0.0023	0.0321
179	0.0361	0.0024	0.0337
180	0.0371	0.0025	0.0346
181	0.0393	0.0026	0.0367
182	0.0405	0.0027	0.0378
183	0.0434	0.0029	0.0405
184	0.0451	0.0030	0.0421
185	0.0315	0.0021	0.0294
186	0.0336	0.0022	0.0313
187	0.0389	0.0026	0.0363
188	0.0425	0.0028	0.0397
189	0.0528	0.0035	0.0493
190	0.0608	0.0040	0.0569
191	0.0923	0.0040	0.0884
192	0.1340	0.0040	0.1300
193	0.5797	0.0040	0.5758
194	0.0727	0.0040	0.0687
195	0.0470	0.0031	0.0438
196	0.0360	0.0024	0.0336
197	0.0469	0.0031	0.0438
198	0.0419	0.0028	0.0391
199	0.0382	0.0025	0.0356
200	0.0352	0.0023	0.0329
201	0.0329	0.0022	0.0307
202	0.0309	0.0021	0.0289
203	0.0293	0.0019	0.0273
204	0.0279	0.0019	0.0260
205	0.0196	0.0013	0.0183
206	0.0186	0.0012	0.0174
207	0.0178	0.0012	0.0166
208	0.0170	0.0011	0.0158
209	0.0163	0.0011	0.0152
210	0.0157	0.0010	0.0146
211	0.0151	0.0010	0.0141
212	0.0146	0.0010	0.0136
213	0.0141	0.0009	0.0132
214	0.0137	0.0009	0.0128
215	0.0133	0.0009	0.0124
216	0.0129	0.0009	0.0120
217	0.0125	0.0008	0.0117
218	0.0122	0.0008	0.0114
219	0.0119	0.0008	0.0111
220	0.0116	0.0008	0.0108
221	0.0113	0.0008	0.0106
222	0.0111	0.0007	0.0103
223	0.0108	0.0007	0.0101
224	0.0106	0.0007	0.0099
225	0.0104	0.0007	0.0097
226	0.0102	0.0007	0.0095
227	0.0100	0.0007	0.0093
228	0.0098	0.0006	0.0091
229	0.0096	0.0006	0.0090
230	0.0094	0.0006	0.0088
231	0.0093	0.0006	0.0087
232	0.0091	0.0006	0.0085
233	0.0090	0.0006	0.0084
234	0.0088	0.0006	0.0082

235	0.0087	0.0006	0.0081
236	0.0086	0.0006	0.0080
237	0.0084	0.0006	0.0079
238	0.0083	0.0006	0.0078
239	0.0082	0.0005	0.0076
240	0.0081	0.0005	0.0075
241	0.0080	0.0005	0.0074
242	0.0079	0.0005	0.0073
243	0.0078	0.0005	0.0072
244	0.0077	0.0005	0.0071
245	0.0076	0.0005	0.0071
246	0.0075	0.0005	0.0070
247	0.0074	0.0005	0.0069
248	0.0073	0.0005	0.0068
249	0.0072	0.0005	0.0067
250	0.0071	0.0005	0.0066
251	0.0070	0.0005	0.0066
252	0.0070	0.0005	0.0065
253	0.0069	0.0005	0.0064
254	0.0068	0.0005	0.0064
255	0.0067	0.0004	0.0063
256	0.0067	0.0004	0.0062
257	0.0066	0.0004	0.0062
258	0.0065	0.0004	0.0061
259	0.0065	0.0004	0.0060
260	0.0064	0.0004	0.0060
261	0.0063	0.0004	0.0059
262	0.0063	0.0004	0.0059
263	0.0062	0.0004	0.0058
264	0.0062	0.0004	0.0058
265	0.0061	0.0004	0.0057
266	0.0061	0.0004	0.0057
267	0.0060	0.0004	0.0056
268	0.0060	0.0004	0.0056
269	0.0059	0.0004	0.0055
270	0.0059	0.0004	0.0055
271	0.0058	0.0004	0.0054
272	0.0058	0.0004	0.0054
273	0.0057	0.0004	0.0053
274	0.0057	0.0004	0.0053
275	0.0056	0.0004	0.0052
276	0.0056	0.0004	0.0052
277	0.0055	0.0004	0.0052
278	0.0055	0.0004	0.0051
279	0.0054	0.0004	0.0051
280	0.0054	0.0004	0.0050
281	0.0054	0.0004	0.0050
282	0.0053	0.0004	0.0050
283	0.0053	0.0004	0.0049
284	0.0052	0.0003	0.0049
285	0.0052	0.0003	0.0049
286	0.0052	0.0003	0.0048
287	0.0051	0.0003	0.0048
288	0.0051	0.0003	0.0048

Total soil rain loss = 0.24(In)
Total effective rainfall = 3.98(In)
Peak flow rate in flood hydrograph = 5599.01(CFS)

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      ----------------------------------------------------------------------
      ++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                         24 - H O U R    S T O R M
                     R u n o f f     H y d r o g r a p h
      ----------------------------------------------------------------------
                   Hydrograph in   5   Minute intervals ((CFS))

      ----------------------------------------------------------------------
Time(h+m) Volume Ac.Ft   Q(CFS)  0     1400.0    2800.0    4200.0    5600.0
-----------------------------------------------------------------------
  0+ 5       0.0101      1.46  Q         |         |         |         |
  0+10       0.0432      4.81  Q         |         |         |         |
  0+15       0.1087      9.51  Q         |         |         |         |
  0+20       0.2160     15.58  Q         |         |         |         |
  0+25       0.3750     23.09  Q         |         |         |         |
  0+30       0.6066     33.64  Q         |         |         |         |
  0+35       0.9333     47.43  Q         |         |         |         |
  0+40       1.4048     68.47  Q         |         |         |         |
  0+45       2.0883     99.24  Q         |         |         |         |
  0+50       2.8837    115.48  Q         |         |         |         |
  0+55       3.7549    126.50  Q         |         |         |         |
  1+ 0       4.6870    135.35  Q         |         |         |         |
  1+ 5       5.6714    142.93  VQ        |         |         |         |
  1+10       6.6989    149.20  VQ        |         |         |         |
  1+15       7.7678    155.19  VQ        |         |         |         |
  1+20       8.8722    160.37  VQ        |         |         |         |
  1+25      10.0102    165.23  VQ        |         |         |         |
  1+30      11.1776    169.51  VQ        |         |         |         |
  1+35      12.3724    173.49  VQ        |         |         |         |
  1+40      13.5925    177.16  VQ        |         |         |         |
  1+45      14.8363    180.60  VQ        |         |         |         |
  1+50      16.1022    183.81  VQ        |         |         |         |
  1+55      17.3883    186.74  VQ        |         |         |         |
  2+ 0      18.6936    189.54  VQ        |         |         |         |
  2+ 5      20.0168    192.13  VQ        |         |         |         |
  2+10      21.3571    194.60  VQ        |         |         |         |
  2+15      22.7128    196.85  VQ        |         |         |         |
  2+20      24.0833    199.00  VQ        |         |         |         |
  2+25      25.4671    200.92  VQ        |         |         |         |
  2+30      26.8636    202.78  VQ        |         |         |         |
  2+35      28.2722    204.53  VQ        |         |         |         |
  2+40      29.6925    206.23  |Q        |         |         |         |
  2+45      31.1234    207.75  |Q        |         |         |         |
  2+50      32.5642    209.21  |Q        |         |         |         |
  2+55      34.0134    210.43  |Q        |         |         |         |
  3+ 0      35.4703    211.55  |Q        |         |         |         |
  3+ 5      36.9352    212.70  |Q        |         |         |         |
  3+10      38.4079    213.83  |Q        |         |         |         |
  3+15      39.8884    214.97  |Q        |         |         |         |
  3+20      41.3765    216.07  |Q        |         |         |         |
  3+25      42.8724    217.21  |Q        |         |         |         |
  3+30      44.3761    218.33  |Q        |         |         |         |
  3+35      45.8874    219.45  |Q        |         |         |         |
  3+40      47.4059    220.49  |Q        |         |         |         |
  3+45      48.9319    221.57  |Q        |         |         |         |
  3+50      50.4651    222.63  |Q        |         |         |         |
  3+55      52.0060    223.73  |Q        |         |         |         |
  4+ 0      53.5545    224.85  |Q        |         |         |         |
  4+ 5      55.1110    226.00  |Q        |         |         |         |
```

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4+10      56.6753    227.14  |Q        |         |         |         |
4+15      58.2477    228.31  |QV       |         |         |         |
4+20      59.8276    229.40  |QV       |         |         |         |
4+25      61.4151    230.51  |QV       |         |         |         |
4+30      63.0102    231.61  |QV       |         |         |         |
4+35      64.6131    232.74  |QV       |         |         |         |
4+40      66.2235    233.83  |QV       |         |         |         |
4+45      67.8415    234.94  |QV       |         |         |         |
4+50      69.4672    236.04  |QV       |         |         |         |
4+55      71.1008    237.20  |QV       |         |         |         |
5+ 0      72.7418    238.28  |QV       |         |         |         |
5+ 5      74.3905    239.39  |QV       |         |         |         |
5+10      76.0468    240.49  |QV       |         |         |         |
5+15      77.7109    241.63  |QV       |         |         |         |
5+20      79.3828    242.75  |QV       |         |         |         |
5+25      81.0627    243.92  |QV       |         |         |         |
5+30      82.7505    245.07  |QV       |         |         |         |
5+35      84.4464    246.26  |QV       |         |         |         |
5+40      86.1505    247.43  |Q V      |         |         |         |
5+45      87.8629    248.64  |Q V      |         |         |         |
5+50      89.5836    249.84  |Q V      |         |         |         |
5+55      91.3129    251.09  |Q V      |         |         |         |
6+ 0      93.0506    252.32  |Q V      |         |         |         |
6+ 5      94.7972    253.60  |Q V      |         |         |         |
6+10      96.5525    254.86  |Q V      |         |         |         |
6+15      98.3168    256.18  |Q V      |         |         |         |
6+20     100.0900    257.47  |Q V      |         |         |         |
6+25     101.8725    258.82  |Q V      |         |         |         |
6+30     103.6642    260.15  |Q V      |         |         |         |
6+35     105.4654    261.53  |Q V      |         |         |         |
6+40     107.2760    262.90  |Q V      |         |         |         |
6+45     109.0963    264.32  |Q V      |         |         |         |
6+50     110.9264    265.72  |Q V      |         |         |         |
6+55     112.7665    267.18  |Q V      |         |         |         |
7+ 0     114.6165    268.62  |Q  V     |         |         |         |
7+ 5     116.4768    270.12  |Q  V     |         |         |         |
7+10     118.3474    271.61  |Q  V     |         |         |         |
7+15     120.2286    273.15  |Q  V     |         |         |         |
7+20     122.1203    274.68  |Q  V     |         |         |         |
7+25     124.0230    276.26  |Q  V     |         |         |         |
7+30     125.9364    277.83  |Q  V     |         |         |         |
7+35     127.8612    279.47  |Q  V     |         |         |         |
7+40     129.7970    281.09  | Q V     |         |         |         |
7+45     131.7445    282.77  | Q V     |         |         |         |
7+50     133.7034    284.44  | Q V     |         |         |         |
7+55     135.6743    286.18  | Q V     |         |         |         |
8+ 0     137.6571    287.89  | Q V     |         |         |         |
8+ 5     139.6522    289.68  | Q V     |         |         |         |
8+10     141.6594    291.46  | Q V     |         |         |         |
8+15     143.6794    293.31  | Q  V    |         |         |         |
8+20     145.7121    295.13  | Q  V    |         |         |         |
8+25     147.7578    297.04  | Q  V    |         |         |         |
8+30     149.8166    298.93  | Q  V    |         |         |         |
8+35     151.8889    300.90  | Q  V    |         |         |         |
8+40     153.9747    302.86  | Q  V    |         |         |         |
8+45     156.0745    304.90  | Q  V    |         |         |         |
8+50     158.1883    306.92  | Q  V    |         |         |         |
8+55     160.3165    309.02  | Q  V    |         |         |         |
9+ 0     162.4592    311.12  | Q  V    |         |         |         |
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 9+ 5     164.6169    313.30  | Q  V    |         |         |         |
 9+10     166.7895    315.46  | Q  V    |         |         |         |
 9+15     168.9777    317.73  | Q  V    |         |         |         |
 9+20     171.1814    319.97  | Q  V    |         |         |         |
 9+25     173.4012    322.32  | Q   V   |         |         |         |
 9+30     175.6371    324.65  | Q   V   |         |         |         |
 9+35     177.8897    327.08  | Q   V   |         |         |         |
 9+40     180.1589    329.50  | Q   V   |         |         |         |
 9+45     182.4456    332.03  | Q   V   |         |         |         |
 9+50     184.7496    334.54  | Q   V   |         |         |         |
 9+55     187.0717    337.17  | Q   V   |         |         |         |
10+ 0     189.4118    339.78  | Q   V   |         |         |         |
10+ 5     191.7708    342.52  | Q   V   |         |         |         |
10+10     194.1484    345.24  | Q   V   |         |         |         |
10+15     196.5457    348.09  | Q   V   |         |         |         |
10+20     198.9626    350.92  | Q   V   |         |         |         |
10+25     201.3999    353.90  | Q    V  |         |         |         |
10+30     203.8575    356.85  | Q    V  |         |         |         |
10+35     206.3366    359.96  | Q    V  |         |         |         |
10+40     208.8369    363.05  | Q    V  |         |         |         |
10+45     211.3596    366.29  | Q    V  |         |         |         |
10+50     213.9045    369.52  | Q    V  |         |         |         |
10+55     216.4728    372.92  | Q    V  |         |         |         |
11+ 0     219.0644    376.30  | Q    V  |         |         |         |
11+ 5     221.6805    379.86  | Q    V  |         |         |         |
11+10     224.3210    383.40  | Q    V  |         |         |         |
11+15     226.9872    387.14  | Q    V  |         |         |         |
11+20     229.6791    390.86  | Q     V |         |         |         |
11+25     232.3980    394.78  | Q     V |         |         |         |
11+30     235.1439    398.70  | Q     V |         |         |         |
11+35     237.9182    402.83  | Q     V |         |         |         |
11+40     240.7209    406.95  | Q     V |         |         |         |
11+45     243.5535    411.30  | Q     V |         |         |         |
11+50     246.4162    415.66  | Q     V |         |         |         |
11+55     249.3105    420.25  |  Q    V |         |         |         |
12+ 0     252.2365    424.85  |  Q    V |         |         |         |
12+ 5     255.1960    429.73  |  Q    V |         |         |         |
12+10     258.1893    434.62  |  Q     V|         |         |         |
12+15     261.2182    439.81  |  Q     V|         |         |         |
12+20     264.2831    445.02  |  Q     V|         |         |         |
12+25     267.3860    450.54  |  Q     V|         |         |         |
12+30     270.5273    456.11  |  Q     V|         |         |         |
12+35     273.7093    462.03  |  Q     V|         |         |         |
12+40     276.9327    468.03  |  Q     V|         |         |         |
12+45     280.2003    474.46  |  Q     V|         |         |         |
12+50     283.5118    480.84  |  Q     V|         |         |         |
12+55     286.8698    487.58  |  Q      V         |         |         |
13+ 0     290.2746    494.37  |  Q      V         |         |         |
13+ 5     293.7291    501.59  |  Q      V         |         |         |
13+10     297.2338    508.88  |  Q      V         |         |         |
13+15     300.7920    516.65  |  Q      V         |         |         |
13+20     304.4043    524.51  |  Q      V         |         |         |
13+25     308.0745    532.91  |  Q      V         |         |         |
13+30     311.8033    541.42  |  Q      V         |         |         |
13+35     315.5948    550.53  |  Q      |V        |         |         |
13+40     319.4501    559.80  |  Q      |V        |         |         |
13+45     323.3740    569.74  |   Q     |V        |         |         |
13+50     327.3675    579.87  |   Q     |V        |         |         |
13+55     331.4362    590.77  |   Q     |V        |         |         |
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14+ 0     335.5815    601.91  |   Q     |V        |         |         |
14+ 5     339.8237    615.96  |   Q     |V        |         |         |
14+10     344.1829    632.95  |   Q     | V       |         |         |
14+15     348.6792    652.86  |   Q     | V       |         |         |
14+20     353.3285    675.08  |   Q     | V       |         |         |
14+25     358.1533    700.55  |    Q    | V       |         |         |
14+30     363.1862    730.79  |    Q    | V       |         |         |
14+35     368.4687    767.01  |    Q    | V       |         |         |
14+40     374.0751    814.05  |    Q    |  V      |         |         |
14+45     380.1112    876.45  |     Q   |  V      |         |         |
14+50     386.4451    919.67  |     Q   |  V      |         |         |
14+55     393.0421    957.89  |     Q   |  V      |         |         |
15+ 0     399.8898    994.28  |      Q  |   V     |         |         |
15+ 5     406.9948   1031.65  |      Q  |   V     |         |         |
15+10     414.3558   1068.82  |      Q  |   V     |         |         |
15+15     421.9943   1109.10  |      Q  |   V     |         |         |
15+20     429.9180   1150.52  |       Q |    V    |         |         |
15+25     438.1214   1191.14  |       Q |    V    |         |         |
15+30     446.5769   1227.73  |       Q |    V    |         |         |
15+35     455.2933   1265.62  |        Q|    V    |         |         |
15+40     464.2701   1303.44  |        Q|     V   |         |         |
15+45     473.5400   1345.99  |        Q|     V   |         |         |
15+50     483.0953   1387.43  |        Q|     V   |         |         |
15+55     493.0070   1439.18  |         Q      V  |         |         |
16+ 0     503.3264   1498.38  |         Q      V  |         |         |
16+ 5     515.0186   1697.71  |         | Q     V |         |         |
16+10     528.7593   1995.14  |         |   Q   V |         |         |
16+15     544.3370   2261.89  |         |     Q  V|         |         |
16+20     561.8630   2544.77  |         |       QV|         |         |
16+25     581.6463   2872.54  |         |         Q         |         |
16+30     604.9368   3381.77  |         |         |V  Q     |         |
16+35     632.1224   3947.36  |         |         | V     Q |         |
16+40     665.1998   4802.83  |         |         |  V      |   Q     |
16+45     703.7605   5599.01  |         |         |   V     |        Q|
16+50     730.4616   3877.00  |         |         |    V Q  |         |
16+55     751.9707   3123.12  |         |         | Q   V   |         |
17+ 0     771.0491   2770.19  |         |        Q|      V  |         |
17+ 5     788.7787   2574.33  |         |       Q |      V  |         |
17+10     804.9970   2354.90  |         |     Q   |       V |         |
17+15     820.3618   2230.98  |         |    Q    |       V |         |
17+20     834.5600   2061.58  |         |   Q     |        V|         |
17+25     847.9418   1943.03  |         |  Q      |        V|         |
17+30     860.3524   1802.03  |         | Q       |         V         |
17+35     871.9824   1688.66  |         | Q       |         V         |
17+40     882.8189   1573.47  |         |Q        |         V         |
17+45     892.8313   1453.79  |         Q         |         |V        |
17+50     902.1929   1359.31  |        Q|         |         |V        |
17+55     910.9332   1269.09  |        Q|         |         |V        |
18+ 0     919.2158   1202.63  |       Q |         |         | V       |
18+ 5     926.9961   1129.70  |       Q |         |         | V       |
18+10     934.3916   1073.83  |      Q  |         |         | V       |
18+15     941.3107   1004.66  |      Q  |         |         | V       |
18+20     947.9000    956.76  |     Q   |         |         |  V      |
18+25     954.0538    893.54  |     Q   |         |         |  V      |
18+30     959.9406    854.76  |     Q   |         |         |  V      |
18+35     965.5097    808.65  |    Q    |         |         |  V      |
18+40     970.8332    772.97  |    Q    |         |         |   V     |
18+45     975.8084    722.40  |    Q    |         |         |   V     |
18+50     980.5354    686.36  |   Q     |         |         |   V     |
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18+55     984.9049    634.44  |   Q     |         |         |   V     |
19+ 0     989.0615    603.54  |   Q     |         |         |   V     |
19+ 5     993.0873    584.54  |   Q     |         |         |   V     |
19+10     996.9925    567.04  |   Q     |         |         |   V     |
19+15    1000.7611    547.21  |  Q      |         |         |    V    |
19+20    1004.4056    529.17  |  Q      |         |         |    V    |
19+25    1007.9503    514.69  |  Q      |         |         |    V    |
19+30    1011.3972    500.50  |  Q      |         |         |    V    |
19+35    1014.7248    483.17  |  Q      |         |         |    V    |
19+40    1017.9267    464.91  |  Q      |         |         |    V    |
19+45    1021.0546    454.17  |  Q      |         |         |    V    |
19+50    1024.1169    444.64  |  Q      |         |         |    V    |
19+55    1027.1253    436.82  |  Q      |         |         |    V    |
20+ 0    1030.0932    430.94  |  Q      |         |         |     V   |
20+ 5    1033.0047    422.76  |  Q      |         |         |     V   |
20+10    1035.8560    414.00  | Q       |         |         |     V   |
20+15    1038.6384    404.01  | Q       |         |         |     V   |
20+20    1041.3190    389.22  | Q       |         |         |     V   |
20+25    1043.9381    380.29  | Q       |         |         |     V   |
20+30    1046.5078    373.12  | Q       |         |         |     V   |
20+35    1049.0281    365.95  | Q       |         |         |     V   |
20+40    1051.4800    356.03  | Q       |         |         |     V   |
20+45    1053.8790    348.32  | Q       |         |         |     V   |
20+50    1056.2356    342.19  | Q       |         |         |      V  |
20+55    1058.5621    337.81  | Q       |         |         |      V  |
21+ 0    1060.7980    324.65  | Q       |         |         |      V  |
21+ 5    1062.9928    318.69  | Q       |         |         |      V  |
21+10    1065.1525    313.59  | Q       |         |         |      V  |
21+15    1067.2799    308.90  | Q       |         |         |      V  |
21+20    1069.3753    304.26  | Q       |         |         |      V  |
21+25    1071.4400    299.78  | Q       |         |         |      V  |
21+30    1073.4724    295.11  | Q       |         |         |      V  |
21+35    1075.4742    290.65  | Q       |         |         |      V  |
21+40    1077.4494    286.80  | Q       |         |         |      V  |
21+45    1079.3992    283.12  | Q       |         |         |      V  |
21+50    1081.3247    279.57  |Q        |         |         |      V  |
21+55    1083.2262    276.10  |Q        |         |         |      V  |
22+ 0    1085.1053    272.85  |Q        |         |         |       V |
22+ 5    1086.9627    269.70  |Q        |         |         |       V |
22+10    1088.7992    266.65  |Q        |         |         |       V |
22+15    1090.6153    263.70  |Q        |         |         |       V |
22+20    1092.4116    260.83  |Q        |         |         |       V |
22+25    1094.1888    258.05  |Q        |         |         |       V |
22+30    1095.9474    255.35  |Q        |         |         |       V |
22+35    1097.6880    252.73  |Q        |         |         |       V |
22+40    1099.4110    250.18  |Q        |         |         |       V |
22+45    1101.1169    247.70  |Q        |         |         |       V |
22+50    1102.8061    245.28  |Q        |         |         |       V |
22+55    1104.4791    242.92  |Q        |         |         |       V |
23+ 0    1106.1364    240.63  |Q        |         |         |       V |
23+ 5    1107.7781    238.39  |Q        |         |         |       V |
23+10    1109.4048    236.20  |Q        |         |         |       V |
23+15    1111.0169    234.06  |Q        |         |         |       V |
23+20    1112.6145    231.98  |Q        |         |         |       V |
23+25    1114.1982    229.94  |Q        |         |         |        V|
23+30    1115.7681    227.95  |Q        |         |         |        V|
23+35    1117.3246    226.01  |Q        |         |         |        V|
23+40    1118.8680    224.10  |Q        |         |         |        V|
23+45    1120.3986    222.24  |Q        |         |         |        V|
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23+50    1121.9166    220.42  |Q        |         |         |        V|
23+55    1123.4223    218.63  |Q        |         |         |        V|
24+ 0    1124.9160    216.88  |Q        |         |         |        V|
24+ 5    1126.3878    213.71  |Q        |         |         |        V|
24+10    1127.8252    208.70  |Q        |         |         |        V|
24+15    1129.2193    202.42  |Q        |         |         |        V|
24+20    1130.5612    194.85  |Q        |         |         |        V|
24+25    1131.8417    185.93  |Q        |         |         |        V|
24+30    1133.0405    174.07  |Q        |         |         |        V|
24+35    1134.1364    159.12  |Q        |         |         |        V|
24+40    1135.0806    137.10  Q         |         |         |        V|
24+45    1135.8078    105.59  Q         |         |         |        V|
24+50    1136.4202     88.91  Q         |         |         |        V|
24+55    1136.9550     77.65  Q         |         |         |        V|
25+ 0    1137.4278     68.65  Q         |         |         |        V|
25+ 5    1137.8482     61.05  Q         |         |         |        V|
25+10    1138.2257     54.81  Q         |         |         |        V|
25+15    1138.5628     48.94  Q         |         |         |        V|
25+20    1138.8654     43.95  Q         |         |         |        V|
25+25    1139.1363     39.34  Q         |         |         |        V|
25+30    1139.3798     35.35  Q         |         |         |        V|
25+35    1139.5983     31.72  Q         |         |         |        V|
25+40    1139.7941     28.43  Q         |         |         |        V|
25+45    1139.9692     25.43  Q         |         |         |        V|
25+50    1140.1254     22.68  Q         |         |         |        V|
25+55    1140.2649     20.26  Q         |         |         |        V|
26+ 0    1140.3888     17.99  Q         |         |         |        V|
26+ 5    1140.4989     15.98  Q         |         |         |        V|
26+10    1140.5959     14.09  Q         |         |         |        V|
26+15    1140.6818     12.47  Q         |         |         |        V|
26+20    1140.7573     10.95  Q         |         |         |        V|
26+25    1140.8242      9.71  Q         |         |         |        V|
26+30    1140.8829      8.53  Q         |         |         |        V|
26+35    1140.9346      7.50  Q         |         |         |        V|
26+40    1140.9795      6.52  Q         |         |         |        V|
26+45    1141.0191      5.75  Q         |         |         |        V|
26+50    1141.0538      5.05  Q         |         |         |        V|
26+55    1141.0856      4.61  Q         |         |         |        V|
27+ 0    1141.1150      4.27  Q         |         |         |        V|
27+ 5    1141.1421      3.93  Q         |         |         |        V|
27+10    1141.1668      3.60  Q         |         |         |        V|
27+15    1141.1895      3.29  Q         |         |         |        V|
27+20    1141.2103      3.02  Q         |         |         |        V|
27+25    1141.2292      2.74  Q         |         |         |        V|
27+30    1141.2461      2.47  Q         |         |         |        V|
27+35    1141.2615      2.23  Q         |         |         |        V|
27+40    1141.2757      2.06  Q         |         |         |        V|
27+45    1141.2888      1.89  Q         |         |         |        V|
27+50    1141.3007      1.73  Q         |         |         |        V|
27+55    1141.3113      1.55  Q         |         |         |        V|
28+ 0    1141.3207      1.35  Q         |         |         |        V|
28+ 5    1141.3286      1.15  Q         |         |         |        V|
28+10    1141.3352      0.96  Q         |         |         |        V|
28+15    1141.3405      0.77  Q         |         |         |        V|
28+20    1141.3449      0.65  Q         |         |         |        V|
28+25    1141.3486      0.54  Q         |         |         |        V|
28+30    1141.3516      0.43  Q         |         |         |        V|
28+35    1141.3539      0.33  Q         |         |         |        V|
28+40    1141.3556      0.25  Q         |         |         |        V|
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   28+45    1141.3569      0.19  Q         |         |         |        V|
   28+50    1141.3579      0.13  Q         |         |         |        V|
   28+55    1141.3582      0.05  Q         |         |         |        V|
   29+ 0    1141.3585      0.04  Q         |         |         |        V|
   29+ 5    1141.3587      0.03  Q         |         |         |        V|
   29+10    1141.3589      0.03  Q         |         |         |        V|
   29+15    1141.3590      0.02  Q         |         |         |        V|
   29+20    1141.3591      0.01  Q         |         |         |        V|
   29+25    1141.3591      0.00  Q         |         |         |         V
----------------------------------------------------------------------
```

U n i t H y d r o g r a p h A n a l y s i s

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Study date 08/10/17

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San Bernardino County Synthetic Unit Hydrology Method
Manual date - August 1986

Program License Serial Number 6320

164309 - NRG COOLWATER SOLAR FACILITY - DAGGETT, CA
OFFSITE AREA "F"
100-YEAR, 24-HOUR STORM EVENT
BY: JDN, DATE: 08-10-17

Storm Event Year = 100

Antecedent Moisture Condition = 3

English (in-lb) Input Units Used

English Rainfall Data (Inches) Input Values Used

English Units used in output format

Area averaged rainfall intensity isohyetal data:

Sub-Area (Ac.)	Duration (hours)	Isohyetal (In)
Rainfall data for year 100		
4924.59	1	1.36
Rainfall data for year 100		
4924.59	6	2.10
Rainfall data for year 100		
4924.59	24	3.14

++

******** Area-averaged max loss rate, Fm ********

SCS curve No.(AMCII)	SCS curve NO.(AMC 3)	Area (Ac.)	Area Fraction	Fp(Fig C6) (In/Hr)	Ap (dec.)	Fm (In/Hr)
77.6	92.6	4924.59	1.000	0.145	0.987	0.143

Area-averaged adjusted loss rate Fm (In/Hr) = 0.143

********* Area-Averaged low loss rate fraction, Yb **********

Area (Ac.)	Area Fract	SCS CN (AMC2)	SCS CN (AMC3)	S	Pervious Yield Fr
4860.57	0.987	77.6	92.6	0.80	0.747
64.02	0.013	98.0	98.0	0.20	0.926

Area-averaged catchment yield fraction, Y = 0.749
Area-averaged low loss fraction, Yb = 0.251
++
Watercourse length = 36355.00(Ft.)
Length from concentration point to centroid = 13280.00(Ft.)
Elevation difference along watercourse = 2138.00(Ft.)
Mannings friction factor along watercourse = 0.035
Watershed area = 4924.59(Ac.)
Catchment Lag time = 0.834 hours
Unit interval = 5.000 minutes
Unit interval percentage of lag time = 9.9863
Hydrograph baseflow = 0.00(CFS)
Average maximum watershed loss rate(Fm) = 0.143(In/Hr)
Average low loss rate fraction (Yb) = 0.251 (decimal)
VALLEY DEVELOPED S-Graph proportion = 0.000
VALLEY UNDEVELOPED S-Graph proportion = 0.000
FOOTHILL S-Graph proportion = 0.100
MOUNTAIN S-Graph proportion = 0.000
DESERT S-Graph proportion = 0.900

Computed peak 5-minute rainfall = 0.646(In)
Computed peak 30-minute rainfall = 1.105(In)
Specified peak 1-hour rainfall = 1.361(In)
Computed peak 3-hour rainfall = 1.777(In)
Specified peak 6-hour rainfall = 2.103(In)
Specified peak 24-hour rainfall = 3.138(In)

Rainfall depth area reduction factors:
Using a total area of 4924.59(Ac.) (Ref: fig. E-4)

5-minute factor = 0.793 Adjusted rainfall = 0.512(In)
30-minute factor = 0.793 Adjusted rainfall = 0.877(In)
1-hour factor = 0.793 Adjusted rainfall = 1.080(In)
3-hour factor = 0.972 Adjusted rainfall = 1.727(In)
6-hour factor = 0.986 Adjusted rainfall = 2.073(In)
24-hour factor = 0.993 Adjusted rainfall = 3.117(In)

U n i t H y d r o g r a p h
++
Interval Number	'S' Graph Mean values	Unit Hydrograph ((CFS))
	(K = 59556.76 (CFS))	
1	0.459	273.190
2	1.585	670.940
3	3.347	1048.957
4	5.732	1420.797
5	8.804	1829.681

6	13.499	2796.008
7	20.640	4252.726
8	30.085	5625.466
9	38.658	5105.681
10	46.295	4548.264
11	52.608	3759.799
12	57.529	2931.143
13	61.394	2301.913
14	64.635	1929.922
15	67.454	1679.037
16	69.987	1508.590
17	72.285	1368.362
18	74.301	1200.791
19	76.102	1072.325
20	77.817	1021.584
21	79.339	906.299
22	80.669	792.293
23	81.973	776.499
24	83.097	669.578
25	84.187	649.471
26	85.216	612.857
27	86.175	571.010
28	87.117	560.791
29	87.939	489.556
30	88.738	475.803
31	89.447	422.203
32	90.050	359.330
33	90.648	356.022
34	91.207	332.888
35	91.758	328.304
36	92.273	306.738
37	92.744	280.778
38	93.211	277.850
39	93.642	256.514
40	94.065	252.176
41	94.441	224.009
42	94.759	189.226
43	95.077	189.132
44	95.394	189.132
45	95.712	189.132
46	95.997	169.752
47	96.241	145.203
48	96.484	145.120
49	96.728	145.120
50	96.972	145.120
51	97.182	125.505
52	97.350	100.024
53	97.518	99.919
54	97.686	99.919
55	97.853	99.919
56	97.991	82.117
57	98.089	58.404
58	98.187	58.286
59	98.285	58.286
60	98.383	58.286
61	98.487	61.794
62	98.599	66.584
63	98.710	66.612
64	98.822	66.612

65	98.934	66.612
66	99.045	66.119
67	99.155	65.428
68	99.265	65.423
69	99.375	65.423
70	99.485	65.423
71	99.572	52.359
72	99.629	33.596
73	99.685	33.455
74	99.741	33.455
75	99.797	33.455
76	99.854	33.455
77	99.910	33.455
78	99.966	33.455
79	100.000	20.297

Peak Unit Number	Adjusted mass rainfall (In)	Unit rainfall (In)
1	0.5124	0.5124
2	0.6308	0.1184
3	0.7124	0.0816
4	0.7766	0.0642
5	0.8304	0.0538
6	0.8771	0.0467
7	0.9186	0.0415
8	0.9562	0.0375
9	0.9905	0.0344
10	1.0224	0.0318
11	1.0520	0.0297
12	1.0798	0.0278
13	1.1174	0.0376
14	1.1534	0.0360
15	1.1879	0.0345
16	1.2211	0.0332
17	1.2532	0.0321
18	1.2842	0.0310
19	1.3142	0.0300
20	1.3434	0.0291
21	1.3717	0.0283
22	1.3992	0.0276
23	1.4261	0.0268
24	1.4523	0.0262
25	1.4778	0.0256
26	1.5028	0.0250
27	1.5273	0.0244
28	1.5512	0.0239
29	1.5746	0.0234
30	1.5976	0.0230
31	1.6202	0.0226
32	1.6423	0.0221
33	1.6641	0.0217
34	1.6854	0.0214
35	1.7065	0.0210
36	1.7271	0.0207
37	1.7396	0.0125
38	1.7519	0.0123
39	1.7639	0.0120
40	1.7757	0.0118
41	1.7873	0.0116

42	1.7987	0.0114
43	1.8098	0.0112
44	1.8208	0.0110
45	1.8316	0.0108
46	1.8423	0.0106
47	1.8527	0.0105
48	1.8630	0.0103
49	1.8732	0.0101
50	1.8832	0.0100
51	1.8930	0.0098
52	1.9027	0.0097
53	1.9123	0.0096
54	1.9217	0.0094
55	1.9310	0.0093
56	1.9402	0.0092
57	1.9493	0.0091
58	1.9582	0.0089
59	1.9670	0.0088
60	1.9758	0.0087
61	1.9844	0.0086
62	1.9929	0.0085
63	2.0013	0.0084
64	2.0096	0.0083
65	2.0178	0.0082
66	2.0260	0.0081
67	2.0340	0.0080
68	2.0419	0.0079
69	2.0498	0.0079
70	2.0576	0.0078
71	2.0653	0.0077
72	2.0729	0.0076
73	2.0813	0.0084
74	2.0897	0.0083
75	2.0980	0.0083
76	2.1061	0.0082
77	2.1143	0.0081
78	2.1223	0.0080
79	2.1303	0.0080
80	2.1382	0.0079
81	2.1460	0.0078
82	2.1538	0.0078
83	2.1615	0.0077
84	2.1691	0.0076
85	2.1767	0.0076
86	2.1842	0.0075
87	2.1916	0.0074
88	2.1990	0.0074
89	2.2063	0.0073
90	2.2136	0.0073
91	2.2208	0.0072
92	2.2279	0.0072
93	2.2350	0.0071
94	2.2421	0.0070
95	2.2491	0.0070
96	2.2560	0.0069
97	2.2629	0.0069
98	2.2697	0.0068
99	2.2765	0.0068
100	2.2833	0.0067

101	2.2900	0.0067
102	2.2966	0.0066
103	2.3032	0.0066
104	2.3098	0.0066
105	2.3163	0.0065
106	2.3228	0.0065
107	2.3292	0.0064
108	2.3356	0.0064
109	2.3419	0.0063
110	2.3482	0.0063
111	2.3545	0.0063
112	2.3607	0.0062
113	2.3669	0.0062
114	2.3730	0.0061
115	2.3791	0.0061
116	2.3852	0.0061
117	2.3912	0.0060
118	2.3972	0.0060
119	2.4032	0.0060
120	2.4091	0.0059
121	2.4150	0.0059
122	2.4209	0.0059
123	2.4267	0.0058
124	2.4325	0.0058
125	2.4382	0.0058
126	2.4440	0.0057
127	2.4496	0.0057
128	2.4553	0.0057
129	2.4609	0.0056
130	2.4665	0.0056
131	2.4721	0.0056
132	2.4776	0.0055
133	2.4831	0.0055
134	2.4886	0.0055
135	2.4941	0.0055
136	2.4995	0.0054
137	2.5049	0.0054
138	2.5103	0.0054
139	2.5156	0.0053
140	2.5209	0.0053
141	2.5262	0.0053
142	2.5315	0.0053
143	2.5367	0.0052
144	2.5419	0.0052
145	2.5471	0.0052
146	2.5522	0.0052
147	2.5574	0.0051
148	2.5625	0.0051
149	2.5676	0.0051
150	2.5726	0.0051
151	2.5776	0.0050
152	2.5827	0.0050
153	2.5876	0.0050
154	2.5926	0.0050
155	2.5976	0.0049
156	2.6025	0.0049
157	2.6074	0.0049
158	2.6122	0.0049
159	2.6171	0.0049

160	2.6219	0.0048
161	2.6267	0.0048
162	2.6315	0.0048
163	2.6363	0.0048
164	2.6411	0.0047
165	2.6458	0.0047
166	2.6505	0.0047
167	2.6552	0.0047
168	2.6598	0.0047
169	2.6645	0.0046
170	2.6691	0.0046
171	2.6737	0.0046
172	2.6783	0.0046
173	2.6829	0.0046
174	2.6875	0.0046
175	2.6920	0.0045
176	2.6965	0.0045
177	2.7010	0.0045
178	2.7055	0.0045
179	2.7099	0.0045
180	2.7144	0.0044
181	2.7188	0.0044
182	2.7232	0.0044
183	2.7276	0.0044
184	2.7320	0.0044
185	2.7364	0.0044
186	2.7407	0.0043
187	2.7450	0.0043
188	2.7494	0.0043
189	2.7536	0.0043
190	2.7579	0.0043
191	2.7622	0.0043
192	2.7664	0.0042
193	2.7707	0.0042
194	2.7749	0.0042
195	2.7791	0.0042
196	2.7833	0.0042
197	2.7874	0.0042
198	2.7916	0.0042
199	2.7957	0.0041
200	2.7999	0.0041
201	2.8040	0.0041
202	2.8081	0.0041
203	2.8122	0.0041
204	2.8162	0.0041
205	2.8203	0.0041
206	2.8243	0.0040
207	2.8284	0.0040
208	2.8324	0.0040
209	2.8364	0.0040
210	2.8404	0.0040
211	2.8443	0.0040
212	2.8483	0.0040
213	2.8522	0.0039
214	2.8562	0.0039
215	2.8601	0.0039
216	2.8640	0.0039
217	2.8679	0.0039
218	2.8718	0.0039

219	2.8756	0.0039
220	2.8795	0.0039
221	2.8833	0.0038
222	2.8872	0.0038
223	2.8910	0.0038
224	2.8948	0.0038
225	2.8986	0.0038
226	2.9024	0.0038
227	2.9062	0.0038
228	2.9099	0.0038
229	2.9137	0.0037
230	2.9174	0.0037
231	2.9211	0.0037
232	2.9249	0.0037
233	2.9286	0.0037
234	2.9323	0.0037
235	2.9359	0.0037
236	2.9396	0.0037
237	2.9433	0.0037
238	2.9469	0.0036
239	2.9505	0.0036
240	2.9542	0.0036
241	2.9578	0.0036
242	2.9614	0.0036
243	2.9650	0.0036
244	2.9686	0.0036
245	2.9722	0.0036
246	2.9757	0.0036
247	2.9793	0.0036
248	2.9828	0.0035
249	2.9864	0.0035
250	2.9899	0.0035
251	2.9934	0.0035
252	2.9969	0.0035
253	3.0004	0.0035
254	3.0039	0.0035
255	3.0073	0.0035
256	3.0108	0.0035
257	3.0143	0.0035
258	3.0177	0.0034
259	3.0212	0.0034
260	3.0246	0.0034
261	3.0280	0.0034
262	3.0314	0.0034
263	3.0348	0.0034
264	3.0382	0.0034
265	3.0416	0.0034
266	3.0450	0.0034
267	3.0483	0.0034
268	3.0517	0.0034
269	3.0550	0.0033
270	3.0584	0.0033
271	3.0617	0.0033
272	3.0650	0.0033
273	3.0683	0.0033
274	3.0716	0.0033
275	3.0749	0.0033
276	3.0782	0.0033
277	3.0815	0.0033

278	3.0847	0.0033
279	3.0880	0.0033
280	3.0913	0.0033
281	3.0945	0.0032
282	3.0977	0.0032
283	3.1010	0.0032
284	3.1042	0.0032
285	3.1074	0.0032
286	3.1106	0.0032
287	3.1138	0.0032
288	3.1170	0.0032

Unit Period (number)	Unit Rainfall (In)	Unit Soil-Loss (In)	Effective Rainfall (In)
1	0.0032	0.0008	0.0024
2	0.0032	0.0008	0.0024
3	0.0032	0.0008	0.0024
4	0.0032	0.0008	0.0024
5	0.0032	0.0008	0.0024
6	0.0032	0.0008	0.0024
7	0.0033	0.0008	0.0024
8	0.0033	0.0008	0.0024
9	0.0033	0.0008	0.0025
10	0.0033	0.0008	0.0025
11	0.0033	0.0008	0.0025
12	0.0033	0.0008	0.0025
13	0.0033	0.0008	0.0025
14	0.0033	0.0008	0.0025
15	0.0034	0.0008	0.0025
16	0.0034	0.0008	0.0025
17	0.0034	0.0008	0.0025
18	0.0034	0.0009	0.0025
19	0.0034	0.0009	0.0026
20	0.0034	0.0009	0.0026
21	0.0034	0.0009	0.0026
22	0.0035	0.0009	0.0026
23	0.0035	0.0009	0.0026
24	0.0035	0.0009	0.0026
25	0.0035	0.0009	0.0026
26	0.0035	0.0009	0.0026
27	0.0035	0.0009	0.0026
28	0.0035	0.0009	0.0027
29	0.0036	0.0009	0.0027
30	0.0036	0.0009	0.0027
31	0.0036	0.0009	0.0027
32	0.0036	0.0009	0.0027
33	0.0036	0.0009	0.0027
34	0.0036	0.0009	0.0027
35	0.0037	0.0009	0.0027
36	0.0037	0.0009	0.0028
37	0.0037	0.0009	0.0028
38	0.0037	0.0009	0.0028
39	0.0037	0.0009	0.0028
40	0.0037	0.0009	0.0028
41	0.0038	0.0009	0.0028
42	0.0038	0.0009	0.0028
43	0.0038	0.0010	0.0028

44	0.0038	0.0010	0.0029
45	0.0038	0.0010	0.0029
46	0.0038	0.0010	0.0029
47	0.0039	0.0010	0.0029
48	0.0039	0.0010	0.0029
49	0.0039	0.0010	0.0029
50	0.0039	0.0010	0.0029
51	0.0039	0.0010	0.0030
52	0.0040	0.0010	0.0030
53	0.0040	0.0010	0.0030
54	0.0040	0.0010	0.0030
55	0.0040	0.0010	0.0030
56	0.0040	0.0010	0.0030
57	0.0041	0.0010	0.0030
58	0.0041	0.0010	0.0031
59	0.0041	0.0010	0.0031
60	0.0041	0.0010	0.0031
61	0.0042	0.0010	0.0031
62	0.0042	0.0010	0.0031
63	0.0042	0.0011	0.0031
64	0.0042	0.0011	0.0032
65	0.0042	0.0011	0.0032
66	0.0043	0.0011	0.0032
67	0.0043	0.0011	0.0032
68	0.0043	0.0011	0.0032
69	0.0043	0.0011	0.0033
70	0.0044	0.0011	0.0033
71	0.0044	0.0011	0.0033
72	0.0044	0.0011	0.0033
73	0.0044	0.0011	0.0033
74	0.0045	0.0011	0.0033
75	0.0045	0.0011	0.0034
76	0.0045	0.0011	0.0034
77	0.0046	0.0011	0.0034
78	0.0046	0.0011	0.0034
79	0.0046	0.0012	0.0035
80	0.0046	0.0012	0.0035
81	0.0047	0.0012	0.0035
82	0.0047	0.0012	0.0035
83	0.0047	0.0012	0.0035
84	0.0047	0.0012	0.0036
85	0.0048	0.0012	0.0036
86	0.0048	0.0012	0.0036
87	0.0049	0.0012	0.0036
88	0.0049	0.0012	0.0037
89	0.0049	0.0012	0.0037
90	0.0049	0.0012	0.0037
91	0.0050	0.0013	0.0037
92	0.0050	0.0013	0.0038
93	0.0051	0.0013	0.0038
94	0.0051	0.0013	0.0038
95	0.0051	0.0013	0.0038
96	0.0052	0.0013	0.0039
97	0.0052	0.0013	0.0039
98	0.0052	0.0013	0.0039
99	0.0053	0.0013	0.0040
100	0.0053	0.0013	0.0040
101	0.0054	0.0013	0.0040
102	0.0054	0.0014	0.0040

103	0.0055	0.0014	0.0041
104	0.0055	0.0014	0.0041
105	0.0055	0.0014	0.0042
106	0.0056	0.0014	0.0042
107	0.0056	0.0014	0.0042
108	0.0057	0.0014	0.0042
109	0.0057	0.0014	0.0043
110	0.0058	0.0014	0.0043
111	0.0058	0.0015	0.0044
112	0.0059	0.0015	0.0044
113	0.0059	0.0015	0.0044
114	0.0060	0.0015	0.0045
115	0.0060	0.0015	0.0045
116	0.0061	0.0015	0.0045
117	0.0061	0.0015	0.0046
118	0.0062	0.0015	0.0046
119	0.0063	0.0016	0.0047
120	0.0063	0.0016	0.0047
121	0.0064	0.0016	0.0048
122	0.0064	0.0016	0.0048
123	0.0065	0.0016	0.0049
124	0.0066	0.0016	0.0049
125	0.0066	0.0017	0.0050
126	0.0067	0.0017	0.0050
127	0.0068	0.0017	0.0051
128	0.0068	0.0017	0.0051
129	0.0069	0.0017	0.0052
130	0.0070	0.0018	0.0052
131	0.0071	0.0018	0.0053
132	0.0072	0.0018	0.0054
133	0.0073	0.0018	0.0054
134	0.0073	0.0018	0.0055
135	0.0074	0.0019	0.0056
136	0.0075	0.0019	0.0056
137	0.0076	0.0019	0.0057
138	0.0077	0.0019	0.0058
139	0.0078	0.0020	0.0059
140	0.0079	0.0020	0.0059
141	0.0080	0.0020	0.0060
142	0.0081	0.0020	0.0061
143	0.0083	0.0021	0.0062
144	0.0083	0.0021	0.0063
145	0.0076	0.0019	0.0057
146	0.0077	0.0019	0.0058
147	0.0079	0.0020	0.0059
148	0.0079	0.0020	0.0060
149	0.0081	0.0020	0.0061
150	0.0082	0.0021	0.0062
151	0.0084	0.0021	0.0063
152	0.0085	0.0021	0.0064
153	0.0087	0.0022	0.0065
154	0.0088	0.0022	0.0066
155	0.0091	0.0023	0.0068
156	0.0092	0.0023	0.0069
157	0.0094	0.0024	0.0071
158	0.0096	0.0024	0.0072
159	0.0098	0.0025	0.0074
160	0.0100	0.0025	0.0075
161	0.0103	0.0026	0.0077

162	0.0105	0.0026	0.0078
163	0.0108	0.0027	0.0081
164	0.0110	0.0028	0.0082
165	0.0114	0.0029	0.0085
166	0.0116	0.0029	0.0087
167	0.0120	0.0030	0.0090
168	0.0123	0.0031	0.0092
169	0.0207	0.0052	0.0155
170	0.0210	0.0053	0.0157
171	0.0217	0.0054	0.0163
172	0.0221	0.0055	0.0166
173	0.0230	0.0058	0.0172
174	0.0234	0.0059	0.0176
175	0.0244	0.0061	0.0183
176	0.0250	0.0063	0.0187
177	0.0262	0.0066	0.0196
178	0.0268	0.0067	0.0201
179	0.0283	0.0071	0.0212
180	0.0291	0.0073	0.0218
181	0.0310	0.0078	0.0232
182	0.0321	0.0080	0.0240
183	0.0345	0.0087	0.0259
184	0.0360	0.0090	0.0270
185	0.0278	0.0070	0.0209
186	0.0297	0.0074	0.0222
187	0.0344	0.0086	0.0258
188	0.0375	0.0094	0.0281
189	0.0467	0.0117	0.0350
190	0.0538	0.0119	0.0419
191	0.0816	0.0119	0.0697
192	0.1184	0.0119	0.1065
193	0.5124	0.0119	0.5005
194	0.0642	0.0119	0.0523
195	0.0415	0.0104	0.0311
196	0.0318	0.0080	0.0238
197	0.0376	0.0094	0.0282
198	0.0332	0.0083	0.0249
199	0.0300	0.0075	0.0225
200	0.0276	0.0069	0.0206
201	0.0256	0.0064	0.0192
202	0.0239	0.0060	0.0179
203	0.0226	0.0057	0.0169
204	0.0214	0.0054	0.0160
205	0.0125	0.0031	0.0094
206	0.0118	0.0030	0.0088
207	0.0112	0.0028	0.0084
208	0.0106	0.0027	0.0080
209	0.0101	0.0025	0.0076
210	0.0097	0.0024	0.0073
211	0.0093	0.0023	0.0070
212	0.0089	0.0022	0.0067
213	0.0086	0.0022	0.0065
214	0.0083	0.0021	0.0062
215	0.0080	0.0020	0.0060
216	0.0078	0.0019	0.0058
217	0.0084	0.0021	0.0063
218	0.0082	0.0021	0.0061
219	0.0080	0.0020	0.0060
220	0.0078	0.0019	0.0058

221	0.0076	0.0019	0.0057
222	0.0074	0.0019	0.0055
223	0.0072	0.0018	0.0054
224	0.0070	0.0018	0.0053
225	0.0069	0.0017	0.0052
226	0.0067	0.0017	0.0051
227	0.0066	0.0017	0.0049
228	0.0065	0.0016	0.0048
229	0.0063	0.0016	0.0048
230	0.0062	0.0016	0.0047
231	0.0061	0.0015	0.0046
232	0.0060	0.0015	0.0045
233	0.0059	0.0015	0.0044
234	0.0058	0.0015	0.0043
235	0.0057	0.0014	0.0043
236	0.0056	0.0014	0.0042
237	0.0055	0.0014	0.0041
238	0.0054	0.0014	0.0041
239	0.0053	0.0013	0.0040
240	0.0053	0.0013	0.0039
241	0.0052	0.0013	0.0039
242	0.0051	0.0013	0.0038
243	0.0050	0.0013	0.0038
244	0.0050	0.0012	0.0037
245	0.0049	0.0012	0.0037
246	0.0048	0.0012	0.0036
247	0.0048	0.0012	0.0036
248	0.0047	0.0012	0.0035
249	0.0046	0.0012	0.0035
250	0.0046	0.0012	0.0034
251	0.0045	0.0011	0.0034
252	0.0045	0.0011	0.0034
253	0.0044	0.0011	0.0033
254	0.0044	0.0011	0.0033
255	0.0043	0.0011	0.0032
256	0.0043	0.0011	0.0032
257	0.0042	0.0011	0.0032
258	0.0042	0.0010	0.0031
259	0.0041	0.0010	0.0031
260	0.0041	0.0010	0.0031
261	0.0041	0.0010	0.0030
262	0.0040	0.0010	0.0030
263	0.0040	0.0010	0.0030
264	0.0039	0.0010	0.0029
265	0.0039	0.0010	0.0029
266	0.0039	0.0010	0.0029
267	0.0038	0.0010	0.0029
268	0.0038	0.0009	0.0028
269	0.0037	0.0009	0.0028
270	0.0037	0.0009	0.0028
271	0.0037	0.0009	0.0028
272	0.0036	0.0009	0.0027
273	0.0036	0.0009	0.0027
274	0.0036	0.0009	0.0027
275	0.0036	0.0009	0.0027
276	0.0035	0.0009	0.0026
277	0.0035	0.0009	0.0026
278	0.0035	0.0009	0.0026
279	0.0034	0.0009	0.0026

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     280              0.0034          0.0009              0.0026
     281              0.0034          0.0008              0.0025
     282              0.0034          0.0008              0.0025
     283              0.0033          0.0008              0.0025
     284              0.0033          0.0008              0.0025
     285              0.0033          0.0008              0.0025
     286              0.0033          0.0008              0.0024
     287              0.0032          0.0008              0.0024
     288              0.0032          0.0008              0.0024
     ---------------------------------------------------------------
     ---------------------------------------------------------------
     Total soil rain loss =      0.63(In)
     Total effective rainfall =      2.48(In)
     Peak flow rate in flood hydrograph =   4856.39(CFS)
     ------------------------------------------------------------------
     ++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                         24 - H O U R    S T O R M
                    R u n o f f      H y d r o g r a p h
     ---------------------------------------------------------------
                 Hydrograph in   5   Minute intervals ((CFS))

     ---------------------------------------------------------------
Time(h+m) Volume Ac.Ft   Q(CFS)  0     1225.0    2450.0    3675.0    4900.0
-------------------------------------------------------------------
  0+ 5       0.0045      0.65  Q         |         |         |         |
  0+10       0.0200      2.26  Q         |         |         |         |
  0+15       0.0529      4.77  Q         |         |         |         |
  0+20       0.1093      8.18  Q         |         |         |         |
  0+25       0.1959     12.58  Q         |         |         |         |
  0+30       0.3289     19.31  Q         |         |         |         |
  0+35       0.5323     29.54  Q         |         |         |         |
  0+40       0.8290     43.08  Q         |         |         |         |
  0+45       1.2108     55.43  Q         |         |         |         |
  0+50       1.6687     66.50  Q         |         |         |         |
  0+55       2.1903     75.73  Q         |         |         |         |
  1+ 0       2.7620     83.01  Q         |         |         |         |
  1+ 5       3.3737     88.82  Q         |         |         |         |
  1+10       4.0195     93.77  Q         |         |         |         |
  1+15       4.6953     98.13  Q         |         |         |         |
  1+20       5.3986    102.11  Q         |         |         |         |
  1+25       6.1270    105.77  Q         |         |         |         |
  1+30       6.8780    109.04  Q         |         |         |         |
  1+35       7.6495    112.02  Q         |         |         |         |
  1+40       8.4408    114.90  Q         |         |         |         |
  1+45       9.2501    117.51  Q         |         |         |         |
  1+50      10.0757    119.87  Q         |         |         |         |
  1+55      10.9172    122.19  Q         |         |         |         |
  2+ 0      11.7731    124.27  VQ        |         |         |         |
  2+ 5      12.6430    126.32  VQ        |         |         |         |
  2+10      13.5265    128.29  VQ        |         |         |         |
  2+15      14.4229    130.16  VQ        |         |         |         |
  2+20      15.3322    132.03  VQ        |         |         |         |
  2+25      16.2532    133.73  VQ        |         |         |         |
  2+30      17.1858    135.41  VQ        |         |         |         |
  2+35      18.1291    136.97  VQ        |         |         |         |
  2+40      19.0822    138.39  VQ        |         |         |         |
  2+45      20.0451    139.81  VQ        |         |         |         |
  2+50      21.0175    141.19  VQ        |         |         |         |
  2+55      21.9994    142.56  VQ        |         |         |         |
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3+ 0      22.9904    143.90  VQ        |         |         |         |
3+ 5      23.9902    145.17  VQ        |         |         |         |
3+10      24.9988    146.45  VQ        |         |         |         |
3+15      26.0160    147.69  |Q        |         |         |         |
3+20      27.0416    148.93  |Q        |         |         |         |
3+25      28.0754    150.10  |Q        |         |         |         |
3+30      29.1167    151.21  |Q        |         |         |         |
3+35      30.1657    152.32  |Q        |         |         |         |
3+40      31.2225    153.44  |Q        |         |         |         |
3+45      32.2870    154.56  |Q        |         |         |         |
3+50      33.3590    155.66  |Q        |         |         |         |
3+55      34.4382    156.70  |Q        |         |         |         |
4+ 0      35.5246    157.75  |Q        |         |         |         |
4+ 5      36.6183    158.81  |Q        |         |         |         |
4+10      37.7194    159.88  |Q        |         |         |         |
4+15      38.8276    160.91  |Q        |         |         |         |
4+20      39.9425    161.89  |Q        |         |         |         |
4+25      41.0642    162.87  |Q        |         |         |         |
4+30      42.1928    163.87  |Q        |         |         |         |
4+35      43.3283    164.88  |Q        |         |         |         |
4+40      44.4706    165.86  |Q        |         |         |         |
4+45      45.6192    166.78  |Q        |         |         |         |
4+50      46.7743    167.72  |Q        |         |         |         |
4+55      47.9359    168.66  |Q        |         |         |         |
5+ 0      49.1041    169.62  |Q        |         |         |         |
5+ 5      50.2790    170.60  |Q        |         |         |         |
5+10      51.4608    171.60  |QV       |         |         |         |
5+15      52.6495    172.60  |QV       |         |         |         |
5+20      53.8453    173.62  |QV       |         |         |         |
5+25      55.0481    174.65  |QV       |         |         |         |
5+30      56.2581    175.69  |QV       |         |         |         |
5+35      57.4753    176.74  |QV       |         |         |         |
5+40      58.6998    177.80  |QV       |         |         |         |
5+45      59.9317    178.87  |QV       |         |         |         |
5+50      61.1711    179.96  |QV       |         |         |         |
5+55      62.4179    181.03  |QV       |         |         |         |
6+ 0      63.6717    182.06  |QV       |         |         |         |
6+ 5      64.9328    183.11  |QV       |         |         |         |
6+10      66.2012    184.17  |QV       |         |         |         |
6+15      67.4769    185.24  |QV       |         |         |         |
6+20      68.7602    186.33  |QV       |         |         |         |
6+25      70.0510    187.42  |QV       |         |         |         |
6+30      71.3494    188.54  |QV       |         |         |         |
6+35      72.6555    189.63  |QV       |         |         |         |
6+40      73.9688    190.70  |QV       |         |         |         |
6+45      75.2896    191.77  |QV       |         |         |         |
6+50      76.6179    192.87  |Q V      |         |         |         |
6+55      77.9538    193.97  |Q V      |         |         |         |
7+ 0      79.2974    195.10  |Q V      |         |         |         |
7+ 5      80.6489    196.23  |Q V      |         |         |         |
7+10      82.0083    197.39  |Q V      |         |         |         |
7+15      83.3758    198.56  |Q V      |         |         |         |
7+20      84.7515    199.75  |Q V      |         |         |         |
7+25      86.1355    200.96  |Q V      |         |         |         |
7+30      87.5280    202.18  |Q V      |         |         |         |
7+35      88.9290    203.42  |Q V      |         |         |         |
7+40      90.3387    204.69  |Q V      |         |         |         |
7+45      91.7572    205.96  |Q V      |         |         |         |
7+50      93.1846    207.27  |Q V      |         |         |         |
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 7+55      94.6212    208.59  |Q V      |         |         |         |
 8+ 0      96.0670    209.93  |Q V      |         |         |         |
 8+ 5      97.5221    211.29  |Q V      |         |         |         |
 8+10      98.9868    212.68  |Q V      |         |         |         |
 8+15     100.4612    214.08  |Q V      |         |         |         |
 8+20     101.9454    215.51  |Q  V     |         |         |         |
 8+25     103.4396    216.96  |Q  V     |         |         |         |
 8+30     104.9441    218.44  |Q  V     |         |         |         |
 8+35     106.4588    219.94  |Q  V     |         |         |         |
 8+40     107.9841    221.47  |Q  V     |         |         |         |
 8+45     109.5200    223.02  |Q  V     |         |         |         |
 8+50     111.0668    224.60  |Q  V     |         |         |         |
 8+55     112.6247    226.21  |Q  V     |         |         |         |
 9+ 0     114.1939    227.85  |Q  V     |         |         |         |
 9+ 5     115.7745    229.51  |Q  V     |         |         |         |
 9+10     117.3669    231.21  |Q  V     |         |         |         |
 9+15     118.9711    232.93  |Q  V     |         |         |         |
 9+20     120.5874    234.69  |Q  V     |         |         |         |
 9+25     122.2160    236.48  |Q  V     |         |         |         |
 9+30     123.8572    238.30  |Q  V     |         |         |         |
 9+35     125.5112    240.16  |Q  V     |         |         |         |
 9+40     127.1782    242.06  |Q  V     |         |         |         |
 9+45     128.8586    243.98  |Q   V    |         |         |         |
 9+50     130.5525    245.96  | Q  V    |         |         |         |
 9+55     132.2603    247.96  | Q  V    |         |         |         |
10+ 0     133.9821    250.02  | Q  V    |         |         |         |
10+ 5     135.7184    252.10  | Q  V    |         |         |         |
10+10     137.4694    254.25  | Q  V    |         |         |         |
10+15     139.2354    256.42  | Q  V    |         |         |         |
10+20     141.0167    258.65  | Q  V    |         |         |         |
10+25     142.8137    260.92  | Q  V    |         |         |         |
10+30     144.6267    263.25  | Q  V    |         |         |         |
10+35     146.4560    265.62  | Q  V    |         |         |         |
10+40     148.3021    268.05  | Q  V    |         |         |         |
10+45     150.1652    270.53  | Q  V    |         |         |         |
10+50     152.0459    273.08  | Q  V    |         |         |         |
10+55     153.9444    275.67  | Q   V   |         |         |         |
11+ 0     155.8614    278.34  | Q   V   |         |         |         |
11+ 5     157.7970    281.05  | Q   V   |         |         |         |
11+10     159.7519    283.85  | Q   V   |         |         |         |
11+15     161.7264    286.71  | Q   V   |         |         |         |
11+20     163.7212    289.65  | Q   V   |         |         |         |
11+25     165.7367    292.64  | Q   V   |         |         |         |
11+30     167.7735    295.74  | Q   V   |         |         |         |
11+35     169.8320    298.90  | Q   V   |         |         |         |
11+40     171.9129    302.15  | Q   V   |         |         |         |
11+45     174.0168    305.48  | Q   V   |         |         |         |
11+50     176.1444    308.93  | Q   V   |         |         |         |
11+55     178.2962    312.44  | Q   V   |         |         |         |
12+ 0     180.4731    316.08  | Q    V  |         |         |         |
12+ 5     182.6744    319.62  | Q    V  |         |         |         |
12+10     184.8991    323.03  | Q    V  |         |         |         |
12+15     187.1461    326.27  | Q    V  |         |         |         |
12+20     189.4147    329.40  | Q    V  |         |         |         |
12+25     191.7037    332.35  | Q    V  |         |         |         |
12+30     194.0095    334.80  | Q    V  |         |         |         |
12+35     196.3261    336.38  | Q    V  |         |         |         |
12+40     198.6483    337.18  | Q    V  |         |         |         |
12+45     200.9791    338.43  | Q    V  |         |         |         |
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12+50     203.3221    340.20  | Q    V  |         |         |         |
12+55     205.6818    342.62  | Q     V |         |         |         |
13+ 0     208.0632    345.78  | Q     V |         |         |         |
13+ 5     210.4703    349.51  | Q     V |         |         |         |
13+10     212.9062    353.70  | Q     V |         |         |         |
13+15     215.3734    358.23  | Q     V |         |         |         |
13+20     217.8742    363.12  | Q     V |         |         |         |
13+25     220.4108    368.31  |  Q    V |         |         |         |
13+30     222.9859    373.90  |  Q    V |         |         |         |
13+35     225.6016    379.81  |  Q    V |         |         |         |
13+40     228.2605    386.08  |  Q    V |         |         |         |
13+45     230.9650    392.70  |  Q     V|         |         |         |
13+50     233.7183    399.78  |  Q     V|         |         |         |
13+55     236.5226    407.19  |  Q     V|         |         |         |
14+ 0     239.3815    415.11  |  Q     V|         |         |         |
14+ 5     242.3089    425.05  |  Q     V|         |         |         |
14+10     245.3248    437.92  |  Q     V|         |         |         |
14+15     248.4485    453.56  |  Q     V|         |         |         |
14+20     251.6999    472.11  |  Q     V|         |         |         |
14+25     255.1008    493.80  |   Q     V         |         |         |
14+30     258.6967    522.13  |   Q     V         |         |         |
14+35     262.5537    560.04  |   Q     V         |         |         |
14+40     266.7367    607.38  |   Q     V         |         |         |
14+45     271.2338    652.97  |    Q    V         |         |         |
14+50     276.0334    696.91  |    Q    V         |         |         |
14+55     281.1139    737.69  |     Q   |V        |         |         |
15+ 0     286.4546    775.46  |     Q   |V        |         |         |
15+ 5     292.0420    811.30  |     Q   |V        |         |         |
15+10     297.8767    847.19  |     Q   |V        |         |         |
15+15     303.9638    883.85  |      Q  |V        |         |         |
15+20     310.3165    922.42  |      Q  | V       |         |         |
15+25     316.9339    960.85  |      Q  | V       |         |         |
15+30     323.8129    998.83  |       Q | V       |         |         |
15+35     330.9550   1037.03  |       Q | V       |         |         |
15+40     338.3750   1077.39  |       Q |  V      |         |         |
15+45     346.0910   1120.35  |        Q|  V      |         |         |
15+50     354.1100   1164.36  |        Q|  V      |         |         |
15+55     362.4627   1212.81  |        Q|   V     |         |         |
16+ 0     371.2780   1279.99  |         Q   V     |         |         |
16+ 5     381.5602   1492.97  |          | Q V    |         |         |
16+10     393.8218   1780.38  |          |   QV   |         |         |
16+15     408.1201   2076.11  |          |     Q  |         |         |
16+20     424.6358   2398.09  |          |     V  Q|         |         |
16+25     443.8036   2783.16  |          |      V  | Q       |         |
16+30     467.4632   3435.38  |          |       V |       Q |         |
16+35     496.6566   4238.88  |          |        V|         |   Q     |
16+40     530.1028   4856.39  |          |         V         |       Q|
16+45     561.5067   4559.85  |          |         | V       |     Q  |
16+50     590.2736   4176.96  |          |         |  V      |   Q     |
16+55     615.6254   3681.07  |          |         |   V     Q         |
17+ 0     637.5679   3186.06  |          |         |    VQ   |         |
17+ 5     656.8238   2795.94  |          |         | Q  V    |         |
17+10     674.2884   2535.86  |          |         Q     V   |         |
17+15     690.4025   2339.77  |          |        Q|      V  |         |
17+20     705.4374   2183.06  |          |      Q  |      V  |         |
17+25     719.4869   2040.00  |          |     Q   |       V |         |
17+30     732.4771   1886.17  |          |    Q    |       V |         |
17+35     744.5159   1748.04  |          |   Q     |        V|         |
17+40     755.7948   1637.69  |          |  Q      |        V|         |
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17+45     766.1845   1508.58  |          | Q       |          V         |
17+50     775.7510   1389.06  |          |Q        |          V         |
17+55     784.8324   1318.62  |          Q         |          V         |
18+ 0     793.2433   1221.26  |         Q|         |         |V         |
18+ 5     801.2794   1166.84  |         Q|         |         |V         |
18+10     808.9269   1110.42  |         Q|         |         |V         |
18+15     816.1946   1055.27  |        Q |         |         | V        |
18+20     823.1774   1013.91  |        Q |         |         | V        |
18+25     829.7213    950.17  |       Q  |         |         | V        |
18+30     836.0022    911.99  |       Q  |         |         | V        |
18+35     841.9273    860.32  |       Q  |         |         |  V       |
18+40     847.5032    809.62  |      Q   |         |         |  V       |
18+45     852.9192    786.40  |      Q   |         |         |  V       |
18+50     858.1360    757.48  |      Q   |         |         |  V       |
18+55     863.2036    735.82  |      Q   |         |         |  V       |
19+ 0     868.0752    707.35  |    Q     |         |         |   V      |
19+ 5     872.7449    678.04  |    Q     |         |         |   V      |
19+10     877.2835    659.01  |    Q     |         |         |   V      |
19+15     881.6445    633.22  |    Q     |         |         |   V      |
19+20     885.8717    613.78  |    Q     |         |         |   V      |
19+25     889.9003    584.95  |   Q      |         |         |   V      |
19+30     893.7261    555.50  |   Q      |         |         |    V     |
19+35     897.4630    542.61  |   Q      |         |         |    V     |
19+40     901.1192    530.88  |   Q      |         |         |    V     |
19+45     904.6873    518.08  |   Q      |         |         |    V     |
19+50     908.1095    496.91  |   Q      |         |         |    V     |
19+55     911.3804    474.93  |  Q       |         |         |    V     |
20+ 0     914.5791    464.45  |  Q       |         |         |    V     |
20+ 5     917.7097    454.56  |  Q       |         |         |     V    |
20+10     920.7642    443.52  |  Q       |         |         |     V    |
20+15     923.6843    424.00  |  Q       |         |         |     V    |
20+20     926.4628    403.43  |  Q       |         |         |     V    |
20+25     929.1815    394.76  |  Q       |         |         |     V    |
20+30     931.8438    386.57  |  Q       |         |         |     V    |
20+35     934.4421    377.27  |  Q       |         |         |     V    |
20+40     936.9219    360.07  | Q        |         |         |     V    |
20+45     939.2760    341.82  | Q        |         |         |     V    |
20+50     941.5826    334.91  | Q        |         |         |     V    |
20+55     943.8495    329.15  | Q        |         |         |      V   |
21+ 0     946.0801    323.89  | Q        |         |         |      V   |
21+ 5     948.2856    320.23  | Q        |         |         |      V   |
21+10     950.4695    317.11  | Q        |         |         |      V   |
21+15     952.6192    312.14  | Q        |         |         |      V   |
21+20     954.7366    307.43  | Q        |         |         |      V   |
21+25     956.8215    302.74  | Q        |         |         |      V   |
21+30     958.8727    297.83  | Q        |         |         |      V   |
21+35     960.8895    292.84  | Q        |         |         |      V   |
21+40     962.8738    288.12  | Q        |         |         |      V   |
21+45     964.8236    283.12  | Q        |         |         |      V   |
21+50     966.7325    277.16  | Q        |         |         |      V   |
21+55     968.5609    265.49  | Q        |         |         |       V  |
22+ 0     970.2996    252.46  | Q        |         |         |       V  |
22+ 5     972.0079    248.05  | Q        |         |         |       V  |
22+10     973.6894    244.15  |Q         |         |         |       V  |
22+15     975.3440    240.24  |Q         |         |         |       V  |
22+20     976.9702    236.13  |Q         |         |         |       V  |
22+25     978.5657    231.66  |Q         |         |         |       V  |
22+30     980.1241    226.28  |Q         |         |         |       V  |
22+35     981.6054    215.09  |Q         |         |         |       V  |
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22+40     982.9957    201.88  |Q         |          |          |        V |
22+45     984.3602    198.12  |Q         |          |          |        V |
22+50     985.7030    194.98  |Q         |          |          |        V |
22+55     987.0258    192.07  |Q         |          |          |        V |
23+ 0     988.3295    189.30  |Q         |          |          |        V |
23+ 5     989.6153    186.69  |Q         |          |          |        V |
23+10     990.8839    184.21  |Q         |          |          |        V |
23+15     992.1363    181.84  |Q         |          |          |        V |
23+20     993.3730    179.57  |Q         |          |          |        V |
23+25     994.5946    177.38  |Q         |          |          |         V|
23+30     995.8017    175.27  |Q         |          |          |         V|
23+35     996.9954    173.31  |Q         |          |          |         V|
23+40     998.1767    171.53  |Q         |          |          |         V|
23+45     999.3462    169.81  |Q         |          |          |         V|
23+50    1000.5041    168.14  |Q         |          |          |         V|
23+55    1001.6509    166.50  |Q         |          |          |         V|
24+ 0    1002.7866    164.90  |Q         |          |          |         V|
24+ 5    1003.9070    162.70  |Q         |          |          |         V|
24+10    1005.0061    159.59  |Q         |          |          |         V|
24+15    1006.0779    155.62  |Q         |          |          |         V|
24+20    1007.1167    150.83  |Q         |          |          |         V|
24+25    1008.1162    145.12  |Q         |          |          |         V|
24+30    1009.0609    137.18  |Q         |          |          |         V|
24+35    1009.9275    125.83  |Q         |          |          |         V|
24+40    1010.6940    111.30  Q          |          |          |         V|
24+45    1011.3698     98.13  Q          |          |          |         V|
24+50    1011.9648     86.40  Q          |          |          |         V|
24+55    1012.4927     76.65  Q          |          |          |         V|
25+ 0    1012.9676     68.96  Q          |          |          |         V|
25+ 5    1013.4003     62.83  Q          |          |          |         V|
25+10    1013.7974     57.65  Q          |          |          |         V|
25+15    1014.1632     53.12  Q          |          |          |         V|
25+20    1014.5009     49.03  Q          |          |          |         V|
25+25    1014.8129     45.31  Q          |          |          |         V|
25+30    1015.1024     42.03  Q          |          |          |         V|
25+35    1015.3716     39.09  Q          |          |          |         V|
25+40    1015.6215     36.29  Q          |          |          |         V|
25+45    1015.8543     33.79  Q          |          |          |         V|
25+50    1016.0719     31.59  Q          |          |          |         V|
25+55    1016.2747     29.45  Q          |          |          |         V|
26+ 0    1016.4647     27.59  Q          |          |          |         V|
26+ 5    1016.6423     25.79  Q          |          |          |         V|
26+10    1016.8082     24.09  Q          |          |          |         V|
26+15    1016.9632     22.51  Q          |          |          |         V|
26+20    1017.1076     20.97  Q          |          |          |         V|
26+25    1017.2427     19.61  Q          |          |          |         V|
26+30    1017.3687     18.30  Q          |          |          |         V|
26+35    1017.4867     17.13  Q          |          |          |         V|
26+40    1017.5977     16.12  Q          |          |          |         V|
26+45    1017.7018     15.12  Q          |          |          |         V|
26+50    1017.7996     14.20  Q          |          |          |         V|
26+55    1017.8911     13.29  Q          |          |          |         V|
27+ 0    1017.9767     12.44  Q          |          |          |         V|
27+ 5    1018.0570     11.66  Q          |          |          |         V|
27+10    1018.1320     10.89  Q          |          |          |         V|
27+15    1018.2022     10.19  Q          |          |          |         V|
27+20    1018.2676      9.49  Q          |          |          |         V|
27+25    1018.3287      8.88  Q          |          |          |         V|
27+30    1018.3862      8.35  Q          |          |          |         V|
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   27+35    1018.4401      7.83  Q         |         |         |        V|
   27+40    1018.4904      7.31  Q         |         |         |        V|
   27+45    1018.5372      6.79  Q         |         |         |        V|
   27+50    1018.5808      6.33  Q         |         |         |        V|
   27+55    1018.6217      5.93  Q         |         |         |        V|
   28+ 0    1018.6598      5.53  Q         |         |         |        V|
   28+ 5    1018.6952      5.14  Q         |         |         |        V|
   28+10    1018.7279      4.75  Q         |         |         |        V|
   28+15    1018.7583      4.41  Q         |         |         |        V|
   28+20    1018.7868      4.14  Q         |         |         |        V|
   28+25    1018.8134      3.86  Q         |         |         |        V|
   28+30    1018.8382      3.59  Q         |         |         |        V|
   28+35    1018.8611      3.33  Q         |         |         |        V|
   28+40    1018.8824      3.10  Q         |         |         |        V|
   28+45    1018.9027      2.94  Q         |         |         |        V|
   28+50    1018.9218      2.77  Q         |         |         |        V|
   28+55    1018.9398      2.61  Q         |         |         |        V|
   29+ 0    1018.9567      2.45  Q         |         |         |        V|
   29+ 5    1018.9724      2.29  Q         |         |         |        V|
   29+10    1018.9870      2.11  Q         |         |         |        V|
   29+15    1019.0003      1.93  Q         |         |         |        V|
   29+20    1019.0124      1.76  Q         |         |         |        V|
   29+25    1019.0233      1.59  Q         |         |         |        V|
   29+30    1019.0331      1.42  Q         |         |         |        V|
   29+35    1019.0417      1.25  Q         |         |         |        V|
   29+40    1019.0492      1.09  Q         |         |         |        V|
   29+45    1019.0555      0.92  Q         |         |         |        V|
   29+50    1019.0607      0.76  Q         |         |         |        V|
   29+55    1019.0651      0.63  Q         |         |         |        V|
   30+ 0    1019.0688      0.54  Q         |         |         |        V|
   30+ 5    1019.0720      0.46  Q         |         |         |        V|
   30+10    1019.0745      0.38  Q         |         |         |        V|
   30+15    1019.0766      0.29  Q         |         |         |        V|
   30+20    1019.0780      0.21  Q         |         |         |        V|
   30+25    1019.0789      0.13  Q         |         |         |        V|
   30+30    1019.0792      0.05  Q         |         |         |        V|
----------------------------------------------------------------------
```

U n i t H y d r o g r a p h A n a l y s i s

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Study date 08/10/17

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San Bernardino County Synthetic Unit Hydrology Method
Manual date - August 1986

Program License Serial Number 6320

164309 - NRG COOLWATER SOLAR FACILITY - DAGGETT, CA
OFFSITE AREA "G"
100-YEAR, 24-HOUR STORM EVENT
BY: JDN, DATE: 08-10-17

Storm Event Year = 100

Antecedent Moisture Condition = 3

English (in-lb) Input Units Used

English Rainfall Data (Inches) Input Values Used

English Units used in output format

Area averaged rainfall intensity isohyetal data:

Sub-Area (Ac.)	Duration (hours)	Isohyetal (In)
Rainfall data for year 100		
279.11	1	1.39
Rainfall data for year 100		
279.11	6	2.19
Rainfall data for year 100		
279.11	24	3.29

++

******** Area-averaged max loss rate, Fm ********

SCS curve No.(AMCII)	SCS curve NO.(AMC 3)	Area (Ac.)	Area Fraction	Fp(Fig C6) (In/Hr)	Ap (dec.)	Fm (In/Hr)
73.7	90.0	279.11	1.000	0.193	1.000	0.193

Area-averaged adjusted loss rate Fm (In/Hr) = 0.193

```
********* Area-Averaged low loss rate fraction, Yb **********

Area       Area          SCS CN    SCS CN      S     Pervious
 (Ac.)      Fract         (AMC2)    (AMC3)           Yield Fr
   279.11   1.000         73.7      90.0       1.12     0.683

Area-averaged catchment yield fraction, Y =  0.683
Area-averaged low loss fraction, Yb =  0.317
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Watercourse length =   12326.00(Ft.)
Length from concentration point to centroid =    8294.00(Ft.)
Elevation difference along watercourse =    1010.00(Ft.)
Mannings friction factor along watercourse =  0.035
Watershed area =     279.11(Ac.)
Catchment Lag time =   0.434 hours
Unit interval =   5.000 minutes
Unit interval percentage of lag time = 19.1851
Hydrograph baseflow =     0.00(CFS)
Average maximum watershed loss rate(Fm) =  0.193(In/Hr)
Average low loss rate fraction (Yb) = 0.317 (decimal)
VALLEY DEVELOPED S-Graph proportion =  0.000
VALLEY UNDEVELOPED S-Graph proportion =  0.000
FOOTHILL S-Graph proportion =  0.400
MOUNTAIN S-Graph proportion =  0.000
DESERT S-Graph proportion =  0.600

Computed peak 5-minute rainfall =  0.659(In)
Computed peak 30-minute rainfall =  1.127(In)
Specified peak 1-hour rainfall =  1.388(In)
Computed peak 3-hour rainfall =  1.836(In)
Specified peak 6-hour rainfall =  2.190(In)
Specified peak 24-hour rainfall =  3.289(In)


Rainfall depth area reduction factors:
Using a total area of     279.11(Ac.) (Ref: fig. E-4)

5-minute factor = 0.987     Adjusted rainfall =  0.650(In)
30-minute factor = 0.987    Adjusted rainfall =  1.113(In)
1-hour factor = 0.987       Adjusted rainfall =  1.370(In)
3-hour factor = 0.998       Adjusted rainfall =  1.833(In)
6-hour factor = 0.999       Adjusted rainfall =  2.188(In)
24-hour factor = 1.000      Adjusted rainfall =  3.288(In)
----------------------------------------------------------------------

                       U n i t  H y d r o g r a p h
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Interval          'S' Graph          Unit Hydrograph
Number            Mean values             ((CFS))
----------------------------------------------------------------------
                (K =      3375.49 (CFS))

  1                1.060                  35.779
  2                4.396                 112.619
  3               10.097                 192.412
  4               21.178                 374.048
  5               37.017                 534.645
  6               53.024                 540.309
```

7	61.978	302.233
8	68.145	208.167
9	72.912	160.923
10	76.813	131.688
11	80.072	110.009
12	82.745	90.211
13	85.031	77.165
14	87.044	67.940
15	88.818	59.876
16	90.346	51.601
17	91.599	42.300
18	92.687	36.712
19	93.656	32.710
20	94.506	28.686
21	95.245	24.955
22	95.814	19.217
23	96.298	16.319
24	96.765	15.782
25	97.153	13.069
26	97.529	12.693
27	97.851	10.869
28	98.104	8.556
29	98.353	8.406
30	98.547	6.536
31	98.723	5.958
32	98.898	5.890
33	99.067	5.709
34	99.236	5.695
35	99.395	5.382
36	99.549	5.181
37	99.693	4.879
38	99.773	2.693
39	99.845	2.428
40	99.917	2.428
41	100.000	1.214

Peak Unit Number	Adjusted mass rainfall (In)	Unit rainfall (In)
1	0.6500	0.6500
2	0.8002	0.1502
3	0.9038	0.1035
4	0.9852	0.0815
5	1.0534	0.0682
6	1.1127	0.0592
7	1.1653	0.0527
8	1.2129	0.0476
9	1.2566	0.0436
10	1.2969	0.0404
11	1.3345	0.0376
12	1.3698	0.0353
13	1.3992	0.0294
14	1.4270	0.0277
15	1.4533	0.0263
16	1.4784	0.0251
17	1.5023	0.0239
18	1.5252	0.0229
19	1.5472	0.0220
20	1.5684	0.0212
21	1.5888	0.0204

22	1.6085	0.0197
23	1.6276	0.0191
24	1.6460	0.0185
25	1.6639	0.0179
26	1.6813	0.0174
27	1.6982	0.0169
28	1.7147	0.0164
29	1.7307	0.0160
30	1.7463	0.0156
31	1.7616	0.0152
32	1.7764	0.0149
33	1.7910	0.0145
34	1.8052	0.0142
35	1.8191	0.0139
36	1.8328	0.0136
37	1.8456	0.0129
38	1.8583	0.0126
39	1.8707	0.0124
40	1.8828	0.0121
41	1.8947	0.0119
42	1.9064	0.0117
43	1.9179	0.0115
44	1.9292	0.0113
45	1.9404	0.0111
46	1.9513	0.0109
47	1.9620	0.0108
48	1.9726	0.0106
49	1.9831	0.0104
50	1.9933	0.0103
51	2.0034	0.0101
52	2.0134	0.0100
53	2.0232	0.0098
54	2.0329	0.0097
55	2.0425	0.0096
56	2.0519	0.0094
57	2.0612	0.0093
58	2.0704	0.0092
59	2.0795	0.0091
60	2.0884	0.0090
61	2.0973	0.0088
62	2.1060	0.0087
63	2.1147	0.0086
64	2.1232	0.0085
65	2.1316	0.0084
66	2.1400	0.0083
67	2.1482	0.0082
68	2.1563	0.0082
69	2.1644	0.0081
70	2.1724	0.0080
71	2.1803	0.0079
72	2.1881	0.0078
73	2.1970	0.0089
74	2.2058	0.0088
75	2.2145	0.0087
76	2.2231	0.0086
77	2.2317	0.0086
78	2.2401	0.0085
79	2.2485	0.0084
80	2.2569	0.0083

81	2.2651	0.0083
82	2.2733	0.0082
83	2.2814	0.0081
84	2.2894	0.0080
85	2.2974	0.0080
86	2.3053	0.0079
87	2.3132	0.0078
88	2.3209	0.0078
89	2.3287	0.0077
90	2.3363	0.0077
91	2.3439	0.0076
92	2.3514	0.0075
93	2.3589	0.0075
94	2.3663	0.0074
95	2.3737	0.0074
96	2.3810	0.0073
97	2.3883	0.0073
98	2.3955	0.0072
99	2.4026	0.0072
100	2.4097	0.0071
101	2.4168	0.0071
102	2.4238	0.0070
103	2.4308	0.0070
104	2.4377	0.0069
105	2.4445	0.0069
106	2.4513	0.0068
107	2.4581	0.0068
108	2.4648	0.0067
109	2.4715	0.0067
110	2.4782	0.0066
111	2.4848	0.0066
112	2.4913	0.0066
113	2.4978	0.0065
114	2.5043	0.0065
115	2.5107	0.0064
116	2.5171	0.0064
117	2.5235	0.0064
118	2.5298	0.0063
119	2.5361	0.0063
120	2.5423	0.0062
121	2.5485	0.0062
122	2.5547	0.0062
123	2.5608	0.0061
124	2.5669	0.0061
125	2.5730	0.0061
126	2.5790	0.0060
127	2.5850	0.0060
128	2.5910	0.0060
129	2.5969	0.0059
130	2.6028	0.0059
131	2.6087	0.0059
132	2.6145	0.0058
133	2.6203	0.0058
134	2.6261	0.0058
135	2.6318	0.0057
136	2.6375	0.0057
137	2.6432	0.0057
138	2.6489	0.0057
139	2.6545	0.0056

140	2.6601	0.0056
141	2.6656	0.0056
142	2.6712	0.0055
143	2.6767	0.0055
144	2.6822	0.0055
145	2.6876	0.0055
146	2.6931	0.0054
147	2.6985	0.0054
148	2.7039	0.0054
149	2.7092	0.0054
150	2.7145	0.0053
151	2.7198	0.0053
152	2.7251	0.0053
153	2.7304	0.0053
154	2.7356	0.0052
155	2.7408	0.0052
156	2.7460	0.0052
157	2.7512	0.0052
158	2.7563	0.0051
159	2.7614	0.0051
160	2.7665	0.0051
161	2.7716	0.0051
162	2.7766	0.0050
163	2.7816	0.0050
164	2.7866	0.0050
165	2.7916	0.0050
166	2.7966	0.0050
167	2.8015	0.0049
168	2.8064	0.0049
169	2.8113	0.0049
170	2.8162	0.0049
171	2.8211	0.0049
172	2.8259	0.0048
173	2.8307	0.0048
174	2.8355	0.0048
175	2.8403	0.0048
176	2.8450	0.0048
177	2.8498	0.0047
178	2.8545	0.0047
179	2.8592	0.0047
180	2.8639	0.0047
181	2.8685	0.0047
182	2.8732	0.0046
183	2.8778	0.0046
184	2.8824	0.0046
185	2.8870	0.0046
186	2.8916	0.0046
187	2.8962	0.0046
188	2.9007	0.0045
189	2.9052	0.0045
190	2.9097	0.0045
191	2.9142	0.0045
192	2.9187	0.0045
193	2.9231	0.0045
194	2.9276	0.0044
195	2.9320	0.0044
196	2.9364	0.0044
197	2.9408	0.0044
198	2.9452	0.0044

199	2.9496	0.0044
200	2.9539	0.0043
201	2.9582	0.0043
202	2.9625	0.0043
203	2.9668	0.0043
204	2.9711	0.0043
205	2.9754	0.0043
206	2.9797	0.0043
207	2.9839	0.0042
208	2.9881	0.0042
209	2.9923	0.0042
210	2.9965	0.0042
211	3.0007	0.0042
212	3.0049	0.0042
213	3.0090	0.0042
214	3.0132	0.0041
215	3.0173	0.0041
216	3.0214	0.0041
217	3.0255	0.0041
218	3.0296	0.0041
219	3.0337	0.0041
220	3.0378	0.0041
221	3.0418	0.0040
222	3.0458	0.0040
223	3.0499	0.0040
224	3.0539	0.0040
225	3.0579	0.0040
226	3.0619	0.0040
227	3.0658	0.0040
228	3.0698	0.0040
229	3.0738	0.0039
230	3.0777	0.0039
231	3.0816	0.0039
232	3.0855	0.0039
233	3.0894	0.0039
234	3.0933	0.0039
235	3.0972	0.0039
236	3.1011	0.0039
237	3.1049	0.0039
238	3.1088	0.0038
239	3.1126	0.0038
240	3.1164	0.0038
241	3.1202	0.0038
242	3.1240	0.0038
243	3.1278	0.0038
244	3.1316	0.0038
245	3.1353	0.0038
246	3.1391	0.0038
247	3.1428	0.0037
248	3.1466	0.0037
249	3.1503	0.0037
250	3.1540	0.0037
251	3.1577	0.0037
252	3.1614	0.0037
253	3.1651	0.0037
254	3.1687	0.0037
255	3.1724	0.0037
256	3.1760	0.0036
257	3.1797	0.0036

258	3.1833	0.0036
259	3.1869	0.0036
260	3.1905	0.0036
261	3.1941	0.0036
262	3.1977	0.0036
263	3.2013	0.0036
264	3.2049	0.0036
265	3.2084	0.0036
266	3.2120	0.0036
267	3.2155	0.0035
268	3.2191	0.0035
269	3.2226	0.0035
270	3.2261	0.0035
271	3.2296	0.0035
272	3.2331	0.0035
273	3.2366	0.0035
274	3.2401	0.0035
275	3.2435	0.0035
276	3.2470	0.0035
277	3.2505	0.0035
278	3.2539	0.0034
279	3.2573	0.0034
280	3.2608	0.0034
281	3.2642	0.0034
282	3.2676	0.0034
283	3.2710	0.0034
284	3.2744	0.0034
285	3.2778	0.0034
286	3.2811	0.0034
287	3.2845	0.0034
288	3.2879	0.0034

Unit Period (number)	Unit Rainfall (In)	Unit Soil-Loss (In)	Effective Rainfall (In)
1	0.0034	0.0011	0.0023
2	0.0034	0.0011	0.0023
3	0.0034	0.0011	0.0023
4	0.0034	0.0011	0.0023
5	0.0034	0.0011	0.0023
6	0.0034	0.0011	0.0023
7	0.0034	0.0011	0.0023
8	0.0034	0.0011	0.0024
9	0.0035	0.0011	0.0024
10	0.0035	0.0011	0.0024
11	0.0035	0.0011	0.0024
12	0.0035	0.0011	0.0024
13	0.0035	0.0011	0.0024
14	0.0035	0.0011	0.0024
15	0.0035	0.0011	0.0024
16	0.0036	0.0011	0.0024
17	0.0036	0.0011	0.0024
18	0.0036	0.0011	0.0024
19	0.0036	0.0011	0.0025
20	0.0036	0.0011	0.0025
21	0.0036	0.0011	0.0025
22	0.0036	0.0012	0.0025
23	0.0037	0.0012	0.0025

24	0.0037	0.0012	0.0025
25	0.0037	0.0012	0.0025
26	0.0037	0.0012	0.0025
27	0.0037	0.0012	0.0025
28	0.0037	0.0012	0.0026
29	0.0038	0.0012	0.0026
30	0.0038	0.0012	0.0026
31	0.0038	0.0012	0.0026
32	0.0038	0.0012	0.0026
33	0.0038	0.0012	0.0026
34	0.0038	0.0012	0.0026
35	0.0039	0.0012	0.0026
36	0.0039	0.0012	0.0026
37	0.0039	0.0012	0.0027
38	0.0039	0.0012	0.0027
39	0.0039	0.0012	0.0027
40	0.0039	0.0012	0.0027
41	0.0040	0.0013	0.0027
42	0.0040	0.0013	0.0027
43	0.0040	0.0013	0.0027
44	0.0040	0.0013	0.0027
45	0.0040	0.0013	0.0028
46	0.0040	0.0013	0.0028
47	0.0041	0.0013	0.0028
48	0.0041	0.0013	0.0028
49	0.0041	0.0013	0.0028
50	0.0041	0.0013	0.0028
51	0.0042	0.0013	0.0028
52	0.0042	0.0013	0.0028
53	0.0042	0.0013	0.0029
54	0.0042	0.0013	0.0029
55	0.0042	0.0013	0.0029
56	0.0043	0.0013	0.0029
57	0.0043	0.0014	0.0029
58	0.0043	0.0014	0.0029
59	0.0043	0.0014	0.0030
60	0.0043	0.0014	0.0030
61	0.0044	0.0014	0.0030
62	0.0044	0.0014	0.0030
63	0.0044	0.0014	0.0030
64	0.0044	0.0014	0.0030
65	0.0045	0.0014	0.0031
66	0.0045	0.0014	0.0031
67	0.0045	0.0014	0.0031
68	0.0045	0.0014	0.0031
69	0.0046	0.0014	0.0031
70	0.0046	0.0015	0.0031
71	0.0046	0.0015	0.0032
72	0.0046	0.0015	0.0032
73	0.0047	0.0015	0.0032
74	0.0047	0.0015	0.0032
75	0.0047	0.0015	0.0032
76	0.0048	0.0015	0.0033
77	0.0048	0.0015	0.0033
78	0.0048	0.0015	0.0033
79	0.0049	0.0015	0.0033
80	0.0049	0.0015	0.0033
81	0.0049	0.0016	0.0034
82	0.0049	0.0016	0.0034

83	0.0050	0.0016	0.0034
84	0.0050	0.0016	0.0034
85	0.0050	0.0016	0.0034
86	0.0051	0.0016	0.0035
87	0.0051	0.0016	0.0035
88	0.0051	0.0016	0.0035
89	0.0052	0.0016	0.0035
90	0.0052	0.0016	0.0036
91	0.0053	0.0017	0.0036
92	0.0053	0.0017	0.0036
93	0.0053	0.0017	0.0036
94	0.0054	0.0017	0.0037
95	0.0054	0.0017	0.0037
96	0.0054	0.0017	0.0037
97	0.0055	0.0017	0.0037
98	0.0055	0.0017	0.0038
99	0.0056	0.0018	0.0038
100	0.0056	0.0018	0.0038
101	0.0057	0.0018	0.0039
102	0.0057	0.0018	0.0039
103	0.0057	0.0018	0.0039
104	0.0058	0.0018	0.0039
105	0.0058	0.0018	0.0040
106	0.0059	0.0019	0.0040
107	0.0059	0.0019	0.0041
108	0.0060	0.0019	0.0041
109	0.0060	0.0019	0.0041
110	0.0061	0.0019	0.0041
111	0.0061	0.0019	0.0042
112	0.0062	0.0020	0.0042
113	0.0062	0.0020	0.0043
114	0.0063	0.0020	0.0043
115	0.0064	0.0020	0.0043
116	0.0064	0.0020	0.0044
117	0.0065	0.0020	0.0044
118	0.0065	0.0021	0.0045
119	0.0066	0.0021	0.0045
120	0.0066	0.0021	0.0045
121	0.0067	0.0021	0.0046
122	0.0068	0.0021	0.0046
123	0.0069	0.0022	0.0047
124	0.0069	0.0022	0.0047
125	0.0070	0.0022	0.0048
126	0.0071	0.0022	0.0048
127	0.0072	0.0023	0.0049
128	0.0072	0.0023	0.0049
129	0.0073	0.0023	0.0050
130	0.0074	0.0023	0.0050
131	0.0075	0.0024	0.0051
132	0.0075	0.0024	0.0052
133	0.0077	0.0024	0.0052
134	0.0077	0.0024	0.0053
135	0.0078	0.0025	0.0054
136	0.0079	0.0025	0.0054
137	0.0080	0.0025	0.0055
138	0.0081	0.0026	0.0055
139	0.0083	0.0026	0.0056
140	0.0083	0.0026	0.0057
141	0.0085	0.0027	0.0058

142	0.0086	0.0027	0.0058
143	0.0087	0.0028	0.0060
144	0.0088	0.0028	0.0060
145	0.0078	0.0025	0.0053
146	0.0079	0.0025	0.0054
147	0.0081	0.0026	0.0055
148	0.0082	0.0026	0.0056
149	0.0083	0.0026	0.0057
150	0.0084	0.0027	0.0058
151	0.0086	0.0027	0.0059
152	0.0087	0.0028	0.0060
153	0.0090	0.0028	0.0061
154	0.0091	0.0029	0.0062
155	0.0093	0.0029	0.0064
156	0.0094	0.0030	0.0064
157	0.0097	0.0031	0.0066
158	0.0098	0.0031	0.0067
159	0.0101	0.0032	0.0069
160	0.0103	0.0033	0.0070
161	0.0106	0.0034	0.0072
162	0.0108	0.0034	0.0074
163	0.0111	0.0035	0.0076
164	0.0113	0.0036	0.0077
165	0.0117	0.0037	0.0080
166	0.0119	0.0038	0.0081
167	0.0124	0.0039	0.0085
168	0.0126	0.0040	0.0086
169	0.0136	0.0043	0.0093
170	0.0139	0.0044	0.0095
171	0.0145	0.0046	0.0099
172	0.0149	0.0047	0.0102
173	0.0156	0.0049	0.0107
174	0.0160	0.0051	0.0109
175	0.0169	0.0054	0.0115
176	0.0174	0.0055	0.0119
177	0.0185	0.0058	0.0126
178	0.0191	0.0060	0.0130
179	0.0204	0.0065	0.0139
180	0.0212	0.0067	0.0145
181	0.0229	0.0073	0.0157
182	0.0239	0.0076	0.0164
183	0.0263	0.0083	0.0180
184	0.0277	0.0088	0.0190
185	0.0353	0.0112	0.0241
186	0.0376	0.0119	0.0257
187	0.0436	0.0138	0.0298
188	0.0476	0.0151	0.0325
189	0.0592	0.0161	0.0431
190	0.0682	0.0161	0.0521
191	0.1035	0.0161	0.0874
192	0.1502	0.0161	0.1342
193	0.6500	0.0161	0.6339
194	0.0815	0.0161	0.0654
195	0.0527	0.0161	0.0366
196	0.0404	0.0128	0.0276
197	0.0294	0.0093	0.0201
198	0.0251	0.0079	0.0171
199	0.0220	0.0070	0.0150
200	0.0197	0.0062	0.0135

201	0.0179	0.0057	0.0122
202	0.0164	0.0052	0.0112
203	0.0152	0.0048	0.0104
204	0.0142	0.0045	0.0097
205	0.0129	0.0041	0.0088
206	0.0121	0.0038	0.0083
207	0.0115	0.0036	0.0079
208	0.0109	0.0035	0.0075
209	0.0104	0.0033	0.0071
210	0.0100	0.0032	0.0068
211	0.0096	0.0030	0.0065
212	0.0092	0.0029	0.0063
213	0.0088	0.0028	0.0060
214	0.0085	0.0027	0.0058
215	0.0082	0.0026	0.0056
216	0.0080	0.0025	0.0055
217	0.0089	0.0028	0.0061
218	0.0086	0.0027	0.0059
219	0.0084	0.0027	0.0057
220	0.0082	0.0026	0.0056
221	0.0080	0.0025	0.0054
222	0.0078	0.0025	0.0053
223	0.0076	0.0024	0.0052
224	0.0074	0.0024	0.0051
225	0.0073	0.0023	0.0050
226	0.0071	0.0022	0.0049
227	0.0070	0.0022	0.0048
228	0.0068	0.0022	0.0047
229	0.0067	0.0021	0.0046
230	0.0066	0.0021	0.0045
231	0.0064	0.0020	0.0044
232	0.0063	0.0020	0.0043
233	0.0062	0.0020	0.0042
234	0.0061	0.0019	0.0042
235	0.0060	0.0019	0.0041
236	0.0059	0.0019	0.0040
237	0.0058	0.0018	0.0040
238	0.0057	0.0018	0.0039
239	0.0056	0.0018	0.0038
240	0.0055	0.0018	0.0038
241	0.0055	0.0017	0.0037
242	0.0054	0.0017	0.0037
243	0.0053	0.0017	0.0036
244	0.0052	0.0017	0.0036
245	0.0052	0.0016	0.0035
246	0.0051	0.0016	0.0035
247	0.0050	0.0016	0.0034
248	0.0050	0.0016	0.0034
249	0.0049	0.0016	0.0033
250	0.0048	0.0015	0.0033
251	0.0048	0.0015	0.0033
252	0.0047	0.0015	0.0032
253	0.0047	0.0015	0.0032
254	0.0046	0.0015	0.0032
255	0.0046	0.0014	0.0031
256	0.0045	0.0014	0.0031
257	0.0045	0.0014	0.0030
258	0.0044	0.0014	0.0030
259	0.0044	0.0014	0.0030

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      260              0.0043          0.0014              0.0029
      261              0.0043          0.0014              0.0029
      262              0.0042          0.0013              0.0029
      263              0.0042          0.0013              0.0029
      264              0.0041          0.0013              0.0028
      265              0.0041          0.0013              0.0028
      266              0.0041          0.0013              0.0028
      267              0.0040          0.0013              0.0027
      268              0.0040          0.0013              0.0027
      269              0.0039          0.0013              0.0027
      270              0.0039          0.0012              0.0027
      271              0.0039          0.0012              0.0026
      272              0.0038          0.0012              0.0026
      273              0.0038          0.0012              0.0026
      274              0.0038          0.0012              0.0026
      275              0.0037          0.0012              0.0026
      276              0.0037          0.0012              0.0025
      277              0.0037          0.0012              0.0025
      278              0.0036          0.0012              0.0025
      279              0.0036          0.0011              0.0025
      280              0.0036          0.0011              0.0025
      281              0.0036          0.0011              0.0024
      282              0.0035          0.0011              0.0024
      283              0.0035          0.0011              0.0024
      284              0.0035          0.0011              0.0024
      285              0.0035          0.0011              0.0024
      286              0.0034          0.0011              0.0023
      287              0.0034          0.0011              0.0023
      288              0.0034          0.0011              0.0023
      ---------------------------------------------------------------------
      ---------------------------------------------------------------------
      Total soil rain loss =      0.78(In)
      Total effective rainfall =      2.50(In)
      Peak flow rate in flood hydrograph =    509.77(CFS)
      ----------------------------------------------------------------------
      ++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                         24 - H O U R    S T O R M
                    R u n o f f     H y d r o g r a p h
      ---------------------------------------------------------------------
                 Hydrograph in   5   Minute intervals ((CFS))

      ---------------------------------------------------------------------
Time(h+m) Volume Ac.Ft   Q(CFS)  0      150.0     300.0     450.0     600.0
-----------------------------------------------------------------------
  0+ 5       0.0006      0.08  Q         |         |         |         |
  0+10       0.0029      0.34  Q         |         |         |         |
  0+15       0.0083      0.78  Q         |         |         |         |
  0+20       0.0196      1.64  Q         |         |         |         |
  0+25       0.0394      2.88  Q         |         |         |         |
  0+30       0.0678      4.13  Q         |         |         |         |
  0+35       0.1011      4.83  Q         |         |         |         |
  0+40       0.1378      5.33  Q         |         |         |         |
  0+45       0.1772      5.72  Q         |         |         |         |
  0+50       0.2188      6.04  Q         |         |         |         |
  0+55       0.2623      6.32  Q         |         |         |         |
  1+ 0       0.3074      6.55  Q         |         |         |         |
  1+ 5       0.3539      6.75  Q         |         |         |         |
  1+10       0.4016      6.93  Q         |         |         |         |
  1+15       0.4505      7.09  Q         |         |         |         |
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1+20	0.5004	7.24	Q			
1+25	0.5511	7.37	Q			
1+30	0.6026	7.48	Q			
1+35	0.6548	7.58	Q			
1+40	0.7077	7.68	Q			
1+45	0.7612	7.77	Q			
1+50	0.8152	7.84	Q			
1+55	0.8697	7.91	Q			
2+ 0	0.9247	7.98	Q			
2+ 5	0.9800	8.04	Q			
2+10	1.0358	8.10	Q			
2+15	1.0920	8.16	Q			
2+20	1.1486	8.21	Q			
2+25	1.2055	8.27	Q			
2+30	1.2628	8.32	Q			
2+35	1.3204	8.36	Q			
2+40	1.3784	8.41	Q			
2+45	1.4367	8.46	Q			
2+50	1.4953	8.51	QV			
2+55	1.5542	8.56	QV			
3+ 0	1.6135	8.61	QV			
3+ 5	1.6731	8.66	QV			
3+10	1.7331	8.70	QV			
3+15	1.7933	8.75	QV			
3+20	1.8538	8.79	QV			
3+25	1.9147	8.83	QV			
3+30	1.9758	8.87	QV			
3+35	2.0371	8.91	QV			
3+40	2.0988	8.95	QV			
3+45	2.1607	8.99	QV			
3+50	2.2229	9.03	QV			
3+55	2.2854	9.07	QV			
4+ 0	2.3482	9.12	QV			
4+ 5	2.4113	9.16	QV			
4+10	2.4747	9.20	QV			
4+15	2.5383	9.25	QV			
4+20	2.6023	9.29	QV			
4+25	2.6666	9.33	QV			
4+30	2.7312	9.38	QV			
4+35	2.7961	9.43	QV			
4+40	2.8614	9.47	QV			
4+45	2.9269	9.52	Q V			
4+50	2.9928	9.57	Q V			
4+55	3.0590	9.61	Q V			
5+ 0	3.1256	9.66	Q V			
5+ 5	3.1924	9.71	Q V			
5+10	3.2597	9.76	Q V			
5+15	3.3273	9.81	Q V			
5+20	3.3952	9.86	Q V			
5+25	3.4635	9.91	Q V			
5+30	3.5321	9.97	Q V			
5+35	3.6011	10.02	Q V			
5+40	3.6705	10.07	Q V			
5+45	3.7402	10.13	Q V			
5+50	3.8104	10.18	Q V			
5+55	3.8809	10.24	Q V			
6+ 0	3.9518	10.30	Q V			
6+ 5	4.0231	10.35	Q V			
6+10	4.0948	10.41	Q V			

```
 6+15       4.1669     10.47  Q V       |         |         |         |
 6+20       4.2394     10.53  Q V       |         |         |         |
 6+25       4.3123     10.59  Q V       |         |         |         |
 6+30       4.3857     10.65  Q  V      |         |         |         |
 6+35       4.4594     10.71  Q  V      |         |         |         |
 6+40       4.5337     10.78  Q  V      |         |         |         |
 6+45       4.6083     10.84  Q  V      |         |         |         |
 6+50       4.6834     10.91  Q  V      |         |         |         |
 6+55       4.7590     10.97  Q  V      |         |         |         |
 7+ 0       4.8350     11.04  Q  V      |         |         |         |
 7+ 5       4.9115     11.11  Q  V      |         |         |         |
 7+10       4.9884     11.17  Q  V      |         |         |         |
 7+15       5.0659     11.24  Q  V      |         |         |         |
 7+20       5.1438     11.32  Q  V      |         |         |         |
 7+25       5.2222     11.39  Q  V      |         |         |         |
 7+30       5.3012     11.46  Q  V      |         |         |         |
 7+35       5.3806     11.53  Q  V      |         |         |         |
 7+40       5.4606     11.61  Q  V      |         |         |         |
 7+45       5.5410     11.69  Q  V      |         |         |         |
 7+50       5.6221     11.77  Q  V      |         |         |         |
 7+55       5.7036     11.84  Q  V      |         |         |         |
 8+ 0       5.7858     11.93  Q  V      |         |         |         |
 8+ 5       5.8685     12.01  Q   V     |         |         |         |
 8+10       5.9517     12.09  Q   V     |         |         |         |
 8+15       6.0356     12.17  Q   V     |         |         |         |
 8+20       6.1200     12.26  Q   V     |         |         |         |
 8+25       6.2051     12.35  Q   V     |         |         |         |
 8+30       6.2907     12.44  Q   V     |         |         |         |
 8+35       6.3770     12.53  Q   V     |         |         |         |
 8+40       6.4639     12.62  Q   V     |         |         |         |
 8+45       6.5515     12.71  Q   V     |         |         |         |
 8+50       6.6397     12.81  Q   V     |         |         |         |
 8+55       6.7286     12.91  Q   V     |         |         |         |
 9+ 0       6.8182     13.01  Q   V     |         |         |         |
 9+ 5       6.9085     13.11  Q   V     |         |         |         |
 9+10       6.9995     13.21  Q   V     |         |         |         |
 9+15       7.0912     13.32  Q   V     |         |         |         |
 9+20       7.1836     13.42  Q   V     |         |         |         |
 9+25       7.2768     13.53  Q    V    |         |         |         |
 9+30       7.3708     13.64  Q    V    |         |         |         |
 9+35       7.4655     13.76  Q    V    |         |         |         |
 9+40       7.5611     13.87  Q    V    |         |         |         |
 9+45       7.6575     13.99  Q    V    |         |         |         |
 9+50       7.7547     14.11  Q    V    |         |         |         |
 9+55       7.8527     14.24  Q    V    |         |         |         |
10+ 0       7.9516     14.36  Q    V    |         |         |         |
10+ 5       8.0514     14.49  Q    V    |         |         |         |
10+10       8.1522     14.62  Q    V    |         |         |         |
10+15       8.2538     14.76  Q    V    |         |         |         |
10+20       8.3564     14.90  Q    V    |         |         |         |
10+25       8.4599     15.04  |Q   V    |         |         |         |
10+30       8.5645     15.18  |Q   V    |         |         |         |
10+35       8.6701     15.33  |Q   V    |         |         |         |
10+40       8.7767     15.48  |Q    V   |         |         |         |
10+45       8.8843     15.63  |Q    V   |         |         |         |
10+50       8.9931     15.79  |Q    V   |         |         |         |
10+55       9.1030     15.95  |Q    V   |         |         |         |
11+ 0       9.2140     16.12  |Q    V   |         |         |         |
11+ 5       9.3262     16.29  |Q    V   |         |         |         |
```

```
11+10       9.4397     16.47  |Q    V   |          |          |          |
11+15       9.5543     16.65  |Q    V   |          |          |          |
11+20       9.6703     16.83  |Q    V   |          |          |          |
11+25       9.7875     17.02  |Q    V   |          |          |          |
11+30       9.9061     17.22  |Q    V   |          |          |          |
11+35      10.0260     17.42  |Q    V   |          |          |          |
11+40      10.1474     17.63  |Q    V   |          |          |          |
11+45      10.2703     17.84  |Q     V  |          |          |          |
11+50      10.3947     18.06  |Q     V  |          |          |          |
11+55      10.5206     18.28  |Q     V  |          |          |          |
12+ 0      10.6481     18.52  |Q     V  |          |          |          |
12+ 5      10.7771     18.73  |Q     V  |          |          |          |
12+10      10.9072     18.89  |Q     V  |          |          |          |
12+15      11.0379     18.99  |Q     V  |          |          |          |
12+20      11.1685     18.95  |Q     V  |          |          |          |
12+25      11.2979     18.80  |Q     V  |          |          |          |
12+30      11.4263     18.64  |Q     V  |          |          |          |
12+35      11.5550     18.68  |Q     V  |          |          |          |
12+40      11.6845     18.81  |Q      V |          |          |          |
12+45      11.8152     18.97  |Q      V |          |          |          |
12+50      11.9472     19.18  |Q      V |          |          |          |
12+55      12.0809     19.40  |Q      V |          |          |          |
13+ 0      12.2163     19.67  |Q      V |          |          |          |
13+ 5      12.3537     19.94  |Q      V |          |          |          |
13+10      12.4931     20.25  |Q      V |          |          |          |
13+15      12.6348     20.57  |Q      V |          |          |          |
13+20      12.7789     20.92  |Q      V |          |          |          |
13+25      12.9255     21.29  |Q      V |          |          |          |
13+30      13.0748     21.69  |Q      V |          |          |          |
13+35      13.2270     22.10  |Q       V|          |          |          |
13+40      13.3824     22.55  |Q       V|          |          |          |
13+45      13.5409     23.02  |Q       V|          |          |          |
13+50      13.7029     23.52  |Q       V|          |          |          |
13+55      13.8685     24.05  |Q       V|          |          |          |
14+ 0      14.0381     24.62  |Q       V|          |          |          |
14+ 5      14.2118     25.23  |Q       V|          |          |          |
14+10      14.3902     25.91  |Q       V|          |          |          |
14+15      14.5737     26.64  |Q        V          |          |          |
14+20      14.7631     27.50  |Q        V          |          |          |
14+25      14.9591     28.45  |Q        V          |          |          |
14+30      15.1621     29.48  |Q        V          |          |          |
14+35      15.3721     30.49  | Q       V          |          |          |
14+40      15.5894     31.55  | Q       V          |          |          |
14+45      15.8143     32.67  | Q       V          |          |          |
14+50      16.0477     33.88  | Q       |V         |          |          |
14+55      16.2900     35.18  | Q       |V         |          |          |
15+ 0      16.5423     36.63  | Q       |V         |          |          |
15+ 5      16.8052     38.18  | Q       |V         |          |          |
15+10      17.0803     39.94  | Q       |V         |          |          |
15+15      17.3687     41.87  | Q       |V         |          |          |
15+20      17.6723     44.08  | Q       | V        |          |          |
15+25      17.9937     46.66  |  Q      | V        |          |          |
15+30      18.3372     49.88  |  Q      | V        |          |          |
15+35      18.7076     53.79  |  Q      | V        |          |          |
15+40      19.1136     58.95  |  Q      |  V       |          |          |
15+45      19.5652     65.56  |   Q     |  V       |          |          |
15+50      20.0751     74.04  |   Q     |  V       |          |          |
15+55      20.6605     84.99  |    Q    |   V      |          |          |
16+ 0      21.3656    102.39  |     Q   |   V      |          |          |
```

```
16+ 5      22.3706    145.92  |        Q|    V    |         |         |
16+10      23.8705    217.79  |         |   Q V   |         |         |
16+15      25.9078    295.81  |         |      V Q|         |         |
16+20      28.8061    420.83  |         |        V|       Q |         |
16+25      32.3169    509.77  |         |         | V       |  Q      |
16+30      35.6788    488.16  |         |         |   V     | Q       |
16+35      37.9544    330.42  |         |         | Q   V   |         |
16+40      39.7023    253.79  |         |     Q   |      V  |         |
16+45      41.1429    209.17  |         |  Q      |       V |         |
16+50      42.3719    178.45  |         |Q        |        V|         |
16+55      43.4393    154.99  |         Q         |        V|         |
17+ 0      44.3677    134.79  |       Q |         |         V         |
17+ 5      45.1930    119.84  |      Q  |         |         |V        |
17+10      45.9371    108.04  |      Q  |         |         |V        |
17+15      46.6089     97.54  |     Q   |         |         | V       |
17+20      47.2110     87.44  |    Q    |         |         | V       |
17+25      47.7444     77.45  |    Q    |         |         | V       |
17+30      48.2272     70.09  |   Q     |         |         |  V      |
17+35      48.6689     64.14  |   Q     |         |         |  V      |
17+40      49.0720     58.52  |  Q      |         |         |  V      |
17+45      49.4389     53.28  |  Q      |         |         |  V      |
17+50      49.7656     47.44  |  Q      |         |         |   V     |
17+55      50.0656     43.55  | Q       |         |         |   V     |
18+ 0      50.3493     41.19  | Q       |         |         |   V     |
18+ 5      50.6107     37.96  | Q       |         |         |   V     |
18+10      50.8596     36.13  | Q       |         |         |   V     |
18+15      51.0918     33.72  | Q       |         |         |    V    |
18+20      51.3078     31.37  | Q       |         |         |    V    |
18+25      51.5172     30.40  | Q       |         |         |    V    |
18+30      51.7148     28.69  |Q        |         |         |    V    |
18+35      51.9051     27.63  |Q        |         |         |    V    |
18+40      52.0903     26.89  |Q        |         |         |    V    |
18+45      52.2701     26.11  |Q        |         |         |    V    |
18+50      52.4451     25.41  |Q        |         |         |     V   |
18+55      52.6142     24.55  |Q        |         |         |     V   |
19+ 0      52.7773     23.69  |Q        |         |         |     V   |
19+ 5      52.9336     22.70  |Q        |         |         |     V   |
19+10      53.0767     20.78  |Q        |         |         |     V   |
19+15      53.2141     19.95  |Q        |         |         |     V   |
19+20      53.3467     19.25  |Q        |         |         |     V   |
19+25      53.4703     17.94  |Q        |         |         |     V   |
19+30      53.5856     16.74  |Q        |         |         |     V   |
19+35      53.6978     16.30  |Q        |         |         |     V   |
19+40      53.8074     15.91  |Q        |         |         |      V  |
19+45      53.9146     15.57  |Q        |         |         |      V  |
19+50      54.0196     15.25  |Q        |         |         |      V  |
19+55      54.1226     14.94  Q        |         |         |      V  |
20+ 0      54.2235     14.66  Q        |         |         |      V  |
20+ 5      54.3226     14.39  Q        |         |         |      V  |
20+10      54.4199     14.13  Q        |         |         |      V  |
20+15      54.5156     13.89  Q        |         |         |      V  |
20+20      54.6096     13.65  Q        |         |         |      V  |
20+25      54.7021     13.43  Q        |         |         |      V  |
20+30      54.7931     13.21  Q        |         |         |      V  |
20+35      54.8827     13.01  Q        |         |         |      V  |
20+40      54.9709     12.81  Q        |         |         |      V  |
20+45      55.0578     12.62  Q        |         |         |      V  |
20+50      55.1434     12.43  Q        |         |         |      V  |
20+55      55.2278     12.26  Q        |         |         |      V  |
```

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21+ 0      55.3110     12.09  Q         |         |         |       V |
21+ 5      55.3931     11.92  Q         |         |         |       V |
21+10      55.4741     11.76  Q         |         |         |       V |
21+15      55.5541     11.61  Q         |         |         |       V |
21+20      55.6330     11.45  Q         |         |         |       V |
21+25      55.7108     11.31  Q         |         |         |       V |
21+30      55.7877     11.17  Q         |         |         |       V |
21+35      55.8637     11.03  Q         |         |         |       V |
21+40      55.9387     10.89  Q         |         |         |       V |
21+45      56.0128     10.76  Q         |         |         |       V |
21+50      56.0861     10.64  Q         |         |         |       V |
21+55      56.1585     10.51  Q         |         |         |       V |
22+ 0      56.2300     10.39  Q         |         |         |       V |
22+ 5      56.3008     10.28  Q         |         |         |       V |
22+10      56.3708     10.16  Q         |         |         |       V |
22+15      56.4401     10.05  Q         |         |         |       V |
22+20      56.5086      9.95  Q         |         |         |       V |
22+25      56.5764      9.84  Q         |         |         |       V |
22+30      56.6435      9.74  Q         |         |         |       V |
22+35      56.7099      9.64  Q         |         |         |        V|
22+40      56.7756      9.55  Q         |         |         |        V|
22+45      56.8407      9.45  Q         |         |         |        V|
22+50      56.9051      9.36  Q         |         |         |        V|
22+55      56.9690      9.27  Q         |         |         |        V|
23+ 0      57.0322      9.18  Q         |         |         |        V|
23+ 5      57.0948      9.10  Q         |         |         |        V|
23+10      57.1569      9.01  Q         |         |         |        V|
23+15      57.2184      8.93  Q         |         |         |        V|
23+20      57.2793      8.85  Q         |         |         |        V|
23+25      57.3397      8.77  Q         |         |         |        V|
23+30      57.3996      8.69  Q         |         |         |        V|
23+35      57.4590      8.62  Q         |         |         |        V|
23+40      57.5178      8.54  Q         |         |         |        V|
23+45      57.5762      8.47  Q         |         |         |        V|
23+50      57.6340      8.40  Q         |         |         |        V|
23+55      57.6914      8.33  Q         |         |         |        V|
24+ 0      57.7483      8.26  Q         |         |         |        V|
24+ 5      57.8042      8.12  Q         |         |         |        V|
24+10      57.8579      7.79  Q         |         |         |        V|
24+15      57.9081      7.29  Q         |         |         |        V|
24+20      57.9521      6.38  Q         |         |         |        V|
24+25      57.9872      5.11  Q         |         |         |        V|
24+30      58.0136      3.83  Q         |         |         |        V|
24+35      58.0350      3.11  Q         |         |         |        V|
24+40      58.0529      2.61  Q         |         |         |        V|
24+45      58.0682      2.22  Q         |         |         |        V|
24+50      58.0813      1.90  Q         |         |         |        V|
24+55      58.0925      1.63  Q         |         |         |        V|
25+ 0      58.1022      1.41  Q         |         |         |        V|
25+ 5      58.1106      1.22  Q         |         |         |        V|
25+10      58.1179      1.06  Q         |         |         |        V|
25+15      58.1242      0.91  Q         |         |         |        V|
25+20      58.1296      0.79  Q         |         |         |        V|
25+25      58.1343      0.68  Q         |         |         |        V|
25+30      58.1384      0.59  Q         |         |         |        V|
25+35      58.1420      0.52  Q         |         |         |        V|
25+40      58.1450      0.45  Q         |         |         |        V|
25+45      58.1477      0.38  Q         |         |         |        V|
25+50      58.1500      0.34  Q         |         |         |        V|
```

```
   25+55      58.1521      0.30  Q         |         |         |        V|
   26+ 0      58.1538      0.26  Q         |         |         |        V|
   26+ 5      58.1554      0.23  Q         |         |         |        V|
   26+10      58.1568      0.20  Q         |         |         |        V|
   26+15      58.1579      0.17  Q         |         |         |        V|
   26+20      58.1590      0.15  Q         |         |         |        V|
   26+25      58.1598      0.13  Q         |         |         |        V|
   26+30      58.1606      0.11  Q         |         |         |        V|
   26+35      58.1613      0.10  Q         |         |         |        V|
   26+40      58.1619      0.08  Q         |         |         |        V|
   26+45      58.1624      0.07  Q         |         |         |        V|
   26+50      58.1628      0.06  Q         |         |         |        V|
   26+55      58.1631      0.04  Q         |         |         |        V|
   27+ 0      58.1633      0.03  Q         |         |         |        V|
   27+ 5      58.1634      0.02  Q         |         |         |        V|
   27+10      58.1635      0.01  Q         |         |         |        V|
   27+15      58.1636      0.01  Q         |         |         |        V|
   27+20      58.1636      0.00  Q         |         |         |         V
-----------------------------------------------------------------------
```

U n i t H y d r o g r a p h A n a l y s i s

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Study date 08/10/17

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San Bernardino County Synthetic Unit Hydrology Method
Manual date - August 1986

Program License Serial Number 6320

164309 - NRG COOLWATER SOLAR FACILITY - DAGGETT, CA
OFFSITE AREA "H"
100-YEAR, 24-HOUR STORM EVENT
BY: JDN, DATE: 08-10-17

Storm Event Year = 100

Antecedent Moisture Condition = 3

English (in-lb) Input Units Used

English Rainfall Data (Inches) Input Values Used

English Units used in output format

Area averaged rainfall intensity isohyetal data:

Sub-Area (Ac.)	Duration (hours)	Isohyetal (In)
Rainfall data for year 100		
512.19	1	1.39
Rainfall data for year 100		
512.19	6	1.89
Rainfall data for year 100		
512.19	24	2.70

++

******** Area-averaged max loss rate, Fm ********

SCS curve No.(AMCII)	SCS curve NO.(AMC 3)	Area (Ac.)	Area Fraction	Fp(Fig C6) (In/Hr)	Ap (dec.)	Fm (In/Hr)
62.3	80.8	512.19	1.000	0.356	0.816	0.290

Area-averaged adjusted loss rate Fm (In/Hr) = 0.290

********* Area-Averaged low loss rate fraction, Yb **********

Area (Ac.)	Area Fract	SCS CN (AMC2)	SCS CN (AMC3)	S	Pervious Yield Fr
417.95	0.816	62.3	80.8	2.38	0.399
94.24	0.184	98.0	98.0	0.20	0.915

Area-averaged catchment yield fraction, Y = 0.494
Area-averaged low loss fraction, Yb = 0.506
++
Watercourse length = 14210.00(Ft.)
Length from concentration point to centroid = 5562.00(Ft.)
Elevation difference along watercourse = 473.00(Ft.)
Mannings friction factor along watercourse = 0.035
Watershed area = 512.19(Ac.)
Catchment Lag time = 0.467 hours
Unit interval = 5.000 minutes
Unit interval percentage of lag time = 17.8278
Hydrograph baseflow = 0.00(CFS)
Average maximum watershed loss rate(Fm) = 0.290(In/Hr)
Average low loss rate fraction (Yb) = 0.506 (decimal)
DESERT S-Graph Selected
Computed peak 5-minute rainfall = 0.658(In)
Computed peak 30-minute rainfall = 1.126(In)
Specified peak 1-hour rainfall = 1.386(In)
Computed peak 3-hour rainfall = 1.678(In)
Specified peak 6-hour rainfall = 1.894(In)
Specified peak 24-hour rainfall = 2.704(In)

Rainfall depth area reduction factors:
Using a total area of 512.19(Ac.) (Ref: fig. E-4)

5-minute factor = 0.976 Adjusted rainfall = 0.642(In)
30-minute factor = 0.976 Adjusted rainfall = 1.099(In)
1-hour factor = 0.976 Adjusted rainfall = 1.353(In)
3-hour factor = 0.997 Adjusted rainfall = 1.673(In)
6-hour factor = 0.998 Adjusted rainfall = 1.891(In)
24-hour factor = 0.999 Adjusted rainfall = 2.702(In)

U n i t H y d r o g r a p h
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Interval Number	'S' Graph Mean values	Unit Hydrograph ((CFS))
	(K = 6194.30 (CFS))	
1	0.848	52.535
2	3.747	179.589
3	8.787	312.185
4	19.271	649.366
5	35.692	1017.224
6	48.591	798.951
7	57.682	563.116
8	63.982	390.254
9	68.832	300.450
10	72.861	249.555

11	76.129	202.447
12	78.947	174.563
13	81.285	144.811
14	83.293	124.371
15	85.116	112.941
16	86.781	103.099
17	88.227	89.615
18	89.419	73.822
19	90.468	64.949
20	91.458	61.361
21	92.343	54.772
22	93.165	50.948
23	93.921	46.841
24	94.544	38.600
25	95.151	37.547
26	95.716	35.005
27	96.183	28.969
28	96.647	28.712
29	97.046	24.692
30	97.367	19.887
31	97.686	19.779
32	97.916	14.239
33	98.094	11.043
34	98.274	11.174
35	98.481	12.778
36	98.695	13.252
37	98.909	13.252
38	99.123	13.252
39	99.336	13.252
40	99.523	11.534
41	99.638	7.124
42	99.749	6.902
43	99.861	6.902
44	100.000	3.451

Peak Unit Number	Adjusted mass rainfall (In)	Unit rainfall (In)
1	0.6419	0.6419
2	0.7902	0.1484
3	0.8925	0.1022
4	0.9729	0.0804
5	1.0403	0.0674
6	1.0988	0.0585
7	1.1508	0.0520
8	1.1978	0.0470
9	1.2409	0.0431
10	1.2807	0.0398
11	1.3179	0.0371
12	1.3527	0.0349
13	1.3739	0.0211
14	1.3937	0.0199
15	1.4125	0.0187
16	1.4302	0.0178
17	1.4471	0.0169
18	1.4632	0.0161
19	1.4786	0.0154
20	1.4934	0.0148
21	1.5075	0.0142
22	1.5212	0.0136

23	1.5343	0.0131
24	1.5470	0.0127
25	1.5593	0.0123
26	1.5712	0.0119
27	1.5827	0.0115
28	1.5939	0.0112
29	1.6048	0.0109
30	1.6153	0.0106
31	1.6256	0.0103
32	1.6356	0.0100
33	1.6454	0.0098
34	1.6550	0.0095
35	1.6643	0.0093
36	1.6734	0.0091
37	1.6815	0.0081
38	1.6894	0.0079
39	1.6972	0.0078
40	1.7048	0.0076
41	1.7122	0.0074
42	1.7195	0.0073
43	1.7266	0.0072
44	1.7337	0.0070
45	1.7405	0.0069
46	1.7473	0.0068
47	1.7539	0.0066
48	1.7605	0.0065
49	1.7669	0.0064
50	1.7732	0.0063
51	1.7794	0.0062
52	1.7855	0.0061
53	1.7915	0.0060
54	1.7974	0.0059
55	1.8032	0.0058
56	1.8090	0.0057
57	1.8146	0.0057
58	1.8202	0.0056
59	1.8257	0.0055
60	1.8311	0.0054
61	1.8365	0.0053
62	1.8418	0.0053
63	1.8470	0.0052
64	1.8521	0.0051
65	1.8572	0.0051
66	1.8622	0.0050
67	1.8671	0.0049
68	1.8720	0.0049
69	1.8768	0.0048
70	1.8816	0.0048
71	1.8863	0.0047
72	1.8910	0.0047
73	1.8977	0.0067
74	1.9044	0.0067
75	1.9110	0.0066
76	1.9175	0.0065
77	1.9239	0.0065
78	1.9304	0.0064
79	1.9367	0.0063
80	1.9430	0.0063
81	1.9492	0.0062

82	1.9554	0.0062
83	1.9615	0.0061
84	1.9675	0.0061
85	1.9736	0.0060
86	1.9795	0.0060
87	1.9854	0.0059
88	1.9913	0.0059
89	1.9971	0.0058
90	2.0028	0.0058
91	2.0085	0.0057
92	2.0142	0.0057
93	2.0198	0.0056
94	2.0254	0.0056
95	2.0309	0.0055
96	2.0364	0.0055
97	2.0418	0.0054
98	2.0472	0.0054
99	2.0526	0.0054
100	2.0579	0.0053
101	2.0632	0.0053
102	2.0684	0.0052
103	2.0736	0.0052
104	2.0788	0.0052
105	2.0839	0.0051
106	2.0890	0.0051
107	2.0941	0.0051
108	2.0991	0.0050
109	2.1041	0.0050
110	2.1090	0.0050
111	2.1140	0.0049
112	2.1188	0.0049
113	2.1237	0.0049
114	2.1285	0.0048
115	2.1333	0.0048
116	2.1381	0.0048
117	2.1428	0.0047
118	2.1475	0.0047
119	2.1522	0.0047
120	2.1568	0.0046
121	2.1614	0.0046
122	2.1660	0.0046
123	2.1706	0.0046
124	2.1751	0.0045
125	2.1796	0.0045
126	2.1841	0.0045
127	2.1885	0.0045
128	2.1930	0.0044
129	2.1974	0.0044
130	2.2017	0.0044
131	2.2061	0.0043
132	2.2104	0.0043
133	2.2147	0.0043
134	2.2190	0.0043
135	2.2233	0.0043
136	2.2275	0.0042
137	2.2317	0.0042
138	2.2359	0.0042
139	2.2400	0.0042
140	2.2442	0.0041

141	2.2483	0.0041
142	2.2524	0.0041
143	2.2565	0.0041
144	2.2605	0.0041
145	2.2645	0.0040
146	2.2686	0.0040
147	2.2725	0.0040
148	2.2765	0.0040
149	2.2805	0.0040
150	2.2844	0.0039
151	2.2883	0.0039
152	2.2922	0.0039
153	2.2961	0.0039
154	2.2999	0.0039
155	2.3038	0.0038
156	2.3076	0.0038
157	2.3114	0.0038
158	2.3152	0.0038
159	2.3189	0.0038
160	2.3227	0.0037
161	2.3264	0.0037
162	2.3301	0.0037
163	2.3338	0.0037
164	2.3375	0.0037
165	2.3412	0.0037
166	2.3448	0.0036
167	2.3484	0.0036
168	2.3521	0.0036
169	2.3556	0.0036
170	2.3592	0.0036
171	2.3628	0.0036
172	2.3663	0.0036
173	2.3699	0.0035
174	2.3734	0.0035
175	2.3769	0.0035
176	2.3804	0.0035
177	2.3839	0.0035
178	2.3873	0.0035
179	2.3908	0.0034
180	2.3942	0.0034
181	2.3976	0.0034
182	2.4010	0.0034
183	2.4044	0.0034
184	2.4078	0.0034
185	2.4112	0.0034
186	2.4145	0.0033
187	2.4179	0.0033
188	2.4212	0.0033
189	2.4245	0.0033
190	2.4278	0.0033
191	2.4311	0.0033
192	2.4343	0.0033
193	2.4376	0.0033
194	2.4408	0.0032
195	2.4441	0.0032
196	2.4473	0.0032
197	2.4505	0.0032
198	2.4537	0.0032
199	2.4569	0.0032

200	2.4601	0.0032
201	2.4632	0.0032
202	2.4664	0.0032
203	2.4695	0.0031
204	2.4726	0.0031
205	2.4758	0.0031
206	2.4789	0.0031
207	2.4820	0.0031
208	2.4850	0.0031
209	2.4881	0.0031
210	2.4912	0.0031
211	2.4942	0.0030
212	2.4973	0.0030
213	2.5003	0.0030
214	2.5033	0.0030
215	2.5063	0.0030
216	2.5093	0.0030
217	2.5123	0.0030
218	2.5153	0.0030
219	2.5182	0.0030
220	2.5212	0.0030
221	2.5241	0.0029
222	2.5271	0.0029
223	2.5300	0.0029
224	2.5329	0.0029
225	2.5358	0.0029
226	2.5387	0.0029
227	2.5416	0.0029
228	2.5445	0.0029
229	2.5474	0.0029
230	2.5502	0.0029
231	2.5531	0.0029
232	2.5559	0.0028
233	2.5587	0.0028
234	2.5616	0.0028
235	2.5644	0.0028
236	2.5672	0.0028
237	2.5700	0.0028
238	2.5728	0.0028
239	2.5756	0.0028
240	2.5783	0.0028
241	2.5811	0.0028
242	2.5838	0.0028
243	2.5866	0.0027
244	2.5893	0.0027
245	2.5921	0.0027
246	2.5948	0.0027
247	2.5975	0.0027
248	2.6002	0.0027
249	2.6029	0.0027
250	2.6056	0.0027
251	2.6083	0.0027
252	2.6109	0.0027
253	2.6136	0.0027
254	2.6162	0.0027
255	2.6189	0.0026
256	2.6215	0.0026
257	2.6242	0.0026
258	2.6268	0.0026

259	2.6294	0.0026
260	2.6320	0.0026
261	2.6346	0.0026
262	2.6372	0.0026
263	2.6398	0.0026
264	2.6424	0.0026
265	2.6450	0.0026
266	2.6475	0.0026
267	2.6501	0.0026
268	2.6526	0.0026
269	2.6552	0.0025
270	2.6577	0.0025
271	2.6603	0.0025
272	2.6628	0.0025
273	2.6653	0.0025
274	2.6678	0.0025
275	2.6703	0.0025
276	2.6728	0.0025
277	2.6753	0.0025
278	2.6778	0.0025
279	2.6803	0.0025
280	2.6827	0.0025
281	2.6852	0.0025
282	2.6877	0.0025
283	2.6901	0.0025
284	2.6926	0.0024
285	2.6950	0.0024
286	2.6974	0.0024
287	2.6998	0.0024
288	2.7023	0.0024

Unit Period (number)	Unit Rainfall (In)	Unit Soil-Loss (In)	Effective Rainfall (In)
1	0.0024	0.0012	0.0012
2	0.0024	0.0012	0.0012
3	0.0024	0.0012	0.0012
4	0.0024	0.0012	0.0012
5	0.0025	0.0012	0.0012
6	0.0025	0.0012	0.0012
7	0.0025	0.0013	0.0012
8	0.0025	0.0013	0.0012
9	0.0025	0.0013	0.0012
10	0.0025	0.0013	0.0012
11	0.0025	0.0013	0.0012
12	0.0025	0.0013	0.0012
13	0.0025	0.0013	0.0013
14	0.0025	0.0013	0.0013
15	0.0026	0.0013	0.0013
16	0.0026	0.0013	0.0013
17	0.0026	0.0013	0.0013
18	0.0026	0.0013	0.0013
19	0.0026	0.0013	0.0013
20	0.0026	0.0013	0.0013
21	0.0026	0.0013	0.0013
22	0.0026	0.0013	0.0013
23	0.0026	0.0013	0.0013
24	0.0027	0.0013	0.0013

25	0.0027	0.0014	0.0013
26	0.0027	0.0014	0.0013
27	0.0027	0.0014	0.0013
28	0.0027	0.0014	0.0013
29	0.0027	0.0014	0.0013
30	0.0027	0.0014	0.0013
31	0.0027	0.0014	0.0014
32	0.0028	0.0014	0.0014
33	0.0028	0.0014	0.0014
34	0.0028	0.0014	0.0014
35	0.0028	0.0014	0.0014
36	0.0028	0.0014	0.0014
37	0.0028	0.0014	0.0014
38	0.0028	0.0014	0.0014
39	0.0029	0.0014	0.0014
40	0.0029	0.0014	0.0014
41	0.0029	0.0015	0.0014
42	0.0029	0.0015	0.0014
43	0.0029	0.0015	0.0014
44	0.0029	0.0015	0.0014
45	0.0029	0.0015	0.0015
46	0.0029	0.0015	0.0015
47	0.0030	0.0015	0.0015
48	0.0030	0.0015	0.0015
49	0.0030	0.0015	0.0015
50	0.0030	0.0015	0.0015
51	0.0030	0.0015	0.0015
52	0.0030	0.0015	0.0015
53	0.0031	0.0015	0.0015
54	0.0031	0.0016	0.0015
55	0.0031	0.0016	0.0015
56	0.0031	0.0016	0.0015
57	0.0031	0.0016	0.0015
58	0.0031	0.0016	0.0016
59	0.0032	0.0016	0.0016
60	0.0032	0.0016	0.0016
61	0.0032	0.0016	0.0016
62	0.0032	0.0016	0.0016
63	0.0032	0.0016	0.0016
64	0.0032	0.0016	0.0016
65	0.0033	0.0017	0.0016
66	0.0033	0.0017	0.0016
67	0.0033	0.0017	0.0016
68	0.0033	0.0017	0.0016
69	0.0033	0.0017	0.0017
70	0.0034	0.0017	0.0017
71	0.0034	0.0017	0.0017
72	0.0034	0.0017	0.0017
73	0.0034	0.0017	0.0017
74	0.0034	0.0017	0.0017
75	0.0035	0.0018	0.0017
76	0.0035	0.0018	0.0017
77	0.0035	0.0018	0.0017
78	0.0035	0.0018	0.0017
79	0.0036	0.0018	0.0018
80	0.0036	0.0018	0.0018
81	0.0036	0.0018	0.0018
82	0.0036	0.0018	0.0018
83	0.0037	0.0019	0.0018

84	0.0037	0.0019	0.0018
85	0.0037	0.0019	0.0018
86	0.0037	0.0019	0.0018
87	0.0038	0.0019	0.0019
88	0.0038	0.0019	0.0019
89	0.0038	0.0019	0.0019
90	0.0038	0.0019	0.0019
91	0.0039	0.0020	0.0019
92	0.0039	0.0020	0.0019
93	0.0039	0.0020	0.0019
94	0.0040	0.0020	0.0020
95	0.0040	0.0020	0.0020
96	0.0040	0.0020	0.0020
97	0.0041	0.0021	0.0020
98	0.0041	0.0021	0.0020
99	0.0041	0.0021	0.0020
100	0.0041	0.0021	0.0020
101	0.0042	0.0021	0.0021
102	0.0042	0.0021	0.0021
103	0.0043	0.0022	0.0021
104	0.0043	0.0022	0.0021
105	0.0043	0.0022	0.0021
106	0.0043	0.0022	0.0021
107	0.0044	0.0022	0.0022
108	0.0044	0.0022	0.0022
109	0.0045	0.0023	0.0022
110	0.0045	0.0023	0.0022
111	0.0046	0.0023	0.0023
112	0.0046	0.0023	0.0023
113	0.0046	0.0023	0.0023
114	0.0047	0.0024	0.0023
115	0.0047	0.0024	0.0023
116	0.0048	0.0024	0.0024
117	0.0048	0.0024	0.0024
118	0.0049	0.0025	0.0024
119	0.0049	0.0025	0.0024
120	0.0050	0.0025	0.0024
121	0.0050	0.0025	0.0025
122	0.0051	0.0026	0.0025
123	0.0051	0.0026	0.0025
124	0.0052	0.0026	0.0026
125	0.0052	0.0027	0.0026
126	0.0053	0.0027	0.0026
127	0.0054	0.0027	0.0026
128	0.0054	0.0027	0.0027
129	0.0055	0.0028	0.0027
130	0.0055	0.0028	0.0027
131	0.0056	0.0028	0.0028
132	0.0057	0.0029	0.0028
133	0.0058	0.0029	0.0028
134	0.0058	0.0029	0.0029
135	0.0059	0.0030	0.0029
136	0.0060	0.0030	0.0029
137	0.0061	0.0031	0.0030
138	0.0061	0.0031	0.0030
139	0.0062	0.0032	0.0031
140	0.0063	0.0032	0.0031
141	0.0064	0.0032	0.0032
142	0.0065	0.0033	0.0032

143	0.0066	0.0033	0.0033
144	0.0067	0.0034	0.0033
145	0.0047	0.0024	0.0023
146	0.0047	0.0024	0.0023
147	0.0048	0.0024	0.0024
148	0.0049	0.0025	0.0024
149	0.0050	0.0025	0.0025
150	0.0051	0.0026	0.0025
151	0.0052	0.0026	0.0026
152	0.0053	0.0027	0.0026
153	0.0054	0.0027	0.0027
154	0.0055	0.0028	0.0027
155	0.0057	0.0029	0.0028
156	0.0057	0.0029	0.0028
157	0.0059	0.0030	0.0029
158	0.0060	0.0030	0.0030
159	0.0062	0.0031	0.0031
160	0.0063	0.0032	0.0031
161	0.0065	0.0033	0.0032
162	0.0066	0.0034	0.0033
163	0.0069	0.0035	0.0034
164	0.0070	0.0035	0.0035
165	0.0073	0.0037	0.0036
166	0.0074	0.0038	0.0037
167	0.0078	0.0039	0.0038
168	0.0079	0.0040	0.0039
169	0.0091	0.0046	0.0045
170	0.0093	0.0047	0.0046
171	0.0098	0.0049	0.0048
172	0.0100	0.0051	0.0050
173	0.0106	0.0053	0.0052
174	0.0109	0.0055	0.0054
175	0.0115	0.0058	0.0057
176	0.0119	0.0060	0.0059
177	0.0127	0.0064	0.0063
178	0.0131	0.0067	0.0065
179	0.0142	0.0072	0.0070
180	0.0148	0.0075	0.0073
181	0.0161	0.0081	0.0080
182	0.0169	0.0085	0.0083
183	0.0187	0.0095	0.0093
184	0.0199	0.0100	0.0098
185	0.0349	0.0176	0.0172
186	0.0371	0.0188	0.0184
187	0.0431	0.0218	0.0213
188	0.0470	0.0238	0.0232
189	0.0585	0.0242	0.0343
190	0.0674	0.0242	0.0432
191	0.1022	0.0242	0.0780
192	0.1484	0.0242	0.1242
193	0.6419	0.0242	0.6177
194	0.0804	0.0242	0.0562
195	0.0520	0.0242	0.0278
196	0.0398	0.0202	0.0197
197	0.0211	0.0107	0.0104
198	0.0178	0.0090	0.0088
199	0.0154	0.0078	0.0076
200	0.0136	0.0069	0.0067
201	0.0123	0.0062	0.0061

202	0.0112	0.0057	0.0055
203	0.0103	0.0052	0.0051
204	0.0095	0.0048	0.0047
205	0.0081	0.0041	0.0040
206	0.0076	0.0038	0.0038
207	0.0072	0.0036	0.0035
208	0.0068	0.0034	0.0033
209	0.0064	0.0032	0.0032
210	0.0061	0.0031	0.0030
211	0.0058	0.0029	0.0029
212	0.0056	0.0028	0.0028
213	0.0053	0.0027	0.0026
214	0.0051	0.0026	0.0025
215	0.0049	0.0025	0.0024
216	0.0048	0.0024	0.0024
217	0.0067	0.0034	0.0033
218	0.0065	0.0033	0.0032
219	0.0063	0.0032	0.0031
220	0.0062	0.0031	0.0030
221	0.0060	0.0030	0.0030
222	0.0059	0.0030	0.0029
223	0.0057	0.0029	0.0028
224	0.0056	0.0028	0.0028
225	0.0054	0.0028	0.0027
226	0.0053	0.0027	0.0026
227	0.0052	0.0026	0.0026
228	0.0051	0.0026	0.0025
229	0.0050	0.0025	0.0025
230	0.0049	0.0025	0.0024
231	0.0048	0.0024	0.0024
232	0.0047	0.0024	0.0023
233	0.0046	0.0023	0.0023
234	0.0045	0.0023	0.0022
235	0.0045	0.0023	0.0022
236	0.0044	0.0022	0.0022
237	0.0043	0.0022	0.0021
238	0.0042	0.0021	0.0021
239	0.0042	0.0021	0.0021
240	0.0041	0.0021	0.0020
241	0.0040	0.0020	0.0020
242	0.0040	0.0020	0.0020
243	0.0039	0.0020	0.0019
244	0.0039	0.0020	0.0019
245	0.0038	0.0019	0.0019
246	0.0037	0.0019	0.0019
247	0.0037	0.0019	0.0018
248	0.0036	0.0018	0.0018
249	0.0036	0.0018	0.0018
250	0.0036	0.0018	0.0018
251	0.0035	0.0018	0.0017
252	0.0035	0.0018	0.0017
253	0.0034	0.0017	0.0017
254	0.0034	0.0017	0.0017
255	0.0033	0.0017	0.0016
256	0.0033	0.0017	0.0016
257	0.0033	0.0016	0.0016
258	0.0032	0.0016	0.0016
259	0.0032	0.0016	0.0016
260	0.0032	0.0016	0.0016

```
      261              0.0031           0.0016              0.0015
      262              0.0031           0.0016              0.0015
      263              0.0030           0.0015              0.0015
      264              0.0030           0.0015              0.0015
      265              0.0030           0.0015              0.0015
      266              0.0030           0.0015              0.0015
      267              0.0029           0.0015              0.0014
      268              0.0029           0.0015              0.0014
      269              0.0029           0.0015              0.0014
      270              0.0028           0.0014              0.0014
      271              0.0028           0.0014              0.0014
      272              0.0028           0.0014              0.0014
      273              0.0028           0.0014              0.0014
      274              0.0027           0.0014              0.0014
      275              0.0027           0.0014              0.0013
      276              0.0027           0.0014              0.0013
      277              0.0027           0.0013              0.0013
      278              0.0026           0.0013              0.0013
      279              0.0026           0.0013              0.0013
      280              0.0026           0.0013              0.0013
      281              0.0026           0.0013              0.0013
      282              0.0026           0.0013              0.0013
      283              0.0025           0.0013              0.0013
      284              0.0025           0.0013              0.0012
      285              0.0025           0.0013              0.0012
      286              0.0025           0.0013              0.0012
      287              0.0025           0.0012              0.0012
      288              0.0024           0.0012              0.0012
      ---------------------------------------------------------------------
      ---------------------------------------------------------------------
      Total soil rain loss =      0.95(In)
      Total effective rainfall =      1.75(In)
      Peak flow rate in flood hydrograph =    871.36(CFS)
      ----------------------------------------------------------------------
      ++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                         24 - H O U R    S T O R M
                    R u n o f f      H y d r o g r a p h
      ---------------------------------------------------------------------
                 Hydrograph in   5   Minute intervals ((CFS))

      ---------------------------------------------------------------------
Time(h+m) Volume Ac.Ft   Q(CFS)  0      225.0     450.0     675.0     900.0
-----------------------------------------------------------------------
  0+ 5       0.0004      0.06  Q         |         |         |         |
  0+10       0.0023      0.28  Q         |         |         |         |
  0+15       0.0068      0.65  Q         |         |         |         |
  0+20       0.0167      1.43  Q         |         |         |         |
  0+25       0.0349      2.65  Q         |         |         |         |
  0+30       0.0598      3.61  Q         |         |         |         |
  0+35       0.0895      4.30  Q         |         |         |         |
  0+40       0.1224      4.78  Q         |         |         |         |
  0+45       0.1580      5.16  Q         |         |         |         |
  0+50       0.1957      5.48  Q         |         |         |         |
  0+55       0.2353      5.74  Q         |         |         |         |
  1+ 0       0.2764      5.98  Q         |         |         |         |
  1+ 5       0.3189      6.17  Q         |         |         |         |
  1+10       0.3626      6.35  Q         |         |         |         |
  1+15       0.4075      6.51  Q         |         |         |         |
  1+20       0.4533      6.66  Q         |         |         |         |
```

1+25	0.5001	6.79	Q				
1+30	0.5476	6.91	Q				
1+35	0.5959	7.01	Q				
1+40	0.6449	7.11	Q				
1+45	0.6946	7.21	Q				
1+50	0.7449	7.30	Q				
1+55	0.7957	7.39	Q				
2+ 0	0.8472	7.46	Q				
2+ 5	0.8991	7.54	Q				
2+10	0.9515	7.62	Q				
2+15	1.0045	7.68	Q				
2+20	1.0578	7.75	Q				
2+25	1.1116	7.81	Q				
2+30	1.1659	7.87	Q				
2+35	1.2205	7.93	Q				
2+40	1.2754	7.98	Q				
2+45	1.3307	8.03	Q				
2+50	1.3864	8.08	Q				
2+55	1.4424	8.13	Q				
3+ 0	1.4987	8.18	Q				
3+ 5	1.5555	8.24	Q				
3+10	1.6126	8.29	Q				
3+15	1.6700	8.34	Q				
3+20	1.7278	8.40	Q				
3+25	1.7860	8.44	Q				
3+30	1.8445	8.49	Q				
3+35	1.9033	8.54	QV				
3+40	1.9624	8.58	QV				
3+45	2.0218	8.63	QV				
3+50	2.0815	8.67	QV				
3+55	2.1415	8.71	QV				
4+ 0	2.2017	8.75	QV				
4+ 5	2.2623	8.79	QV				
4+10	2.3231	8.84	QV				
4+15	2.3843	8.88	QV				
4+20	2.4458	8.92	QV				
4+25	2.5076	8.97	QV				
4+30	2.5696	9.02	QV				
4+35	2.6320	9.06	QV				
4+40	2.6948	9.11	QV				
4+45	2.7578	9.15	QV				
4+50	2.8212	9.20	QV				
4+55	2.8849	9.25	QV				
5+ 0	2.9489	9.30	QV				
5+ 5	3.0133	9.35	QV				
5+10	3.0781	9.40	QV				
5+15	3.1431	9.45	QV				
5+20	3.2086	9.50	QV				
5+25	3.2744	9.55	QV				
5+30	3.3405	9.61	QV				
5+35	3.4070	9.66	QV				
5+40	3.4739	9.71	QV				
5+45	3.5412	9.77	QV				
5+50	3.6089	9.82	QV				
5+55	3.6769	9.88	QV				
6+ 0	3.7453	9.94	Q V				
6+ 5	3.8142	9.99	Q V				
6+10	3.8834	10.05	Q V				
6+15	3.9530	10.11	Q V				

```
 6+20       4.0231     10.17  Q V       |          |          |          |
 6+25       4.0936     10.23  Q V       |          |          |          |
 6+30       4.1645     10.30  Q V       |          |          |          |
 6+35       4.2358     10.36  Q V       |          |          |          |
 6+40       4.3076     10.42  Q V       |          |          |          |
 6+45       4.3798     10.49  Q V       |          |          |          |
 6+50       4.4525     10.55  Q V       |          |          |          |
 6+55       4.5257     10.62  Q V       |          |          |          |
 7+ 0       4.5993     10.69  Q V       |          |          |          |
 7+ 5       4.6733     10.76  Q V       |          |          |          |
 7+10       4.7479     10.83  Q V       |          |          |          |
 7+15       4.8229     10.90  Q V       |          |          |          |
 7+20       4.8985     10.97  Q V       |          |          |          |
 7+25       4.9745     11.04  Q V       |          |          |          |
 7+30       5.0511     11.11  Q V       |          |          |          |
 7+35       5.1281     11.19  Q V       |          |          |          |
 7+40       5.2057     11.27  Q V       |          |          |          |
 7+45       5.2838     11.34  Q V       |          |          |          |
 7+50       5.3625     11.42  Q V       |          |          |          |
 7+55       5.4418     11.50  Q V       |          |          |          |
 8+ 0       5.5215     11.59  Q V       |          |          |          |
 8+ 5       5.6019     11.67  Q  V      |          |          |          |
 8+10       5.6829     11.75  Q  V      |          |          |          |
 8+15       5.7644     11.84  Q  V      |          |          |          |
 8+20       5.8465     11.93  Q  V      |          |          |          |
 8+25       5.9293     12.02  Q  V      |          |          |          |
 8+30       6.0127     12.11  Q  V      |          |          |          |
 8+35       6.0967     12.20  Q  V      |          |          |          |
 8+40       6.1814     12.29  Q  V      |          |          |          |
 8+45       6.2667     12.39  Q  V      |          |          |          |
 8+50       6.3527     12.49  Q  V      |          |          |          |
 8+55       6.4393     12.59  Q  V      |          |          |          |
 9+ 0       6.5267     12.69  Q  V      |          |          |          |
 9+ 5       6.6148     12.79  Q  V      |          |          |          |
 9+10       6.7036     12.89  Q  V      |          |          |          |
 9+15       6.7931     13.00  Q  V      |          |          |          |
 9+20       6.8834     13.11  Q  V      |          |          |          |
 9+25       6.9745     13.22  Q  V      |          |          |          |
 9+30       7.0663     13.34  Q  V      |          |          |          |
 9+35       7.1590     13.45  Q  V      |          |          |          |
 9+40       7.2524     13.57  Q  V      |          |          |          |
 9+45       7.3467     13.69  Q  V      |          |          |          |
 9+50       7.4418     13.81  Q  V      |          |          |          |
 9+55       7.5378     13.94  Q   V     |          |          |          |
10+ 0       7.6347     14.07  Q   V     |          |          |          |
10+ 5       7.7325     14.20  Q   V     |          |          |          |
10+10       7.8313     14.33  Q   V     |          |          |          |
10+15       7.9309     14.47  Q   V     |          |          |          |
10+20       8.0316     14.61  Q   V     |          |          |          |
10+25       8.1332     14.76  Q   V     |          |          |          |
10+30       8.2359     14.90  Q   V     |          |          |          |
10+35       8.3396     15.06  Q   V     |          |          |          |
10+40       8.4443     15.21  Q   V     |          |          |          |
10+45       8.5502     15.37  Q   V     |          |          |          |
10+50       8.6571     15.53  Q   V     |          |          |          |
10+55       8.7653     15.70  Q   V     |          |          |          |
11+ 0       8.8745     15.87  Q   V     |          |          |          |
11+ 5       8.9850     16.05  Q   V     |          |          |          |
11+10       9.0968     16.22  Q   V     |          |          |          |
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11+15       9.2098     16.41  Q   V     |          |          |          |
11+20       9.3241     16.60  Q    V    |          |          |          |
11+25       9.4398     16.79  Q    V    |          |          |          |
11+30       9.5568     16.99  Q    V    |          |          |          |
11+35       9.6753     17.20  Q    V    |          |          |          |
11+40       9.7952     17.41  Q    V    |          |          |          |
11+45       9.9167     17.63  Q    V    |          |          |          |
11+50      10.0397     17.86  Q    V    |          |          |          |
11+55      10.1643     18.09  Q    V    |          |          |          |
12+ 0      10.2905     18.33  Q    V    |          |          |          |
12+ 5      10.4181     18.52  Q    V    |          |          |          |
12+10      10.5461     18.59  Q    V    |          |          |          |
12+15      10.6736     18.52  Q    V    |          |          |          |
12+20      10.7982     18.10  Q    V    |          |          |          |
12+25      10.9173     17.29  Q    V    |          |          |          |
12+30      11.0324     16.71  Q    V    |          |          |          |
12+35      11.1453     16.38  Q    V    |          |          |          |
12+40      11.2571     16.23  Q     V   |          |          |          |
12+45      11.3686     16.19  Q     V   |          |          |          |
12+50      11.4802     16.20  Q     V   |          |          |          |
12+55      11.5923     16.28  Q     V   |          |          |          |
13+ 0      11.7051     16.39  Q     V   |          |          |          |
13+ 5      11.8190     16.54  Q     V   |          |          |          |
13+10      11.9342     16.72  Q     V   |          |          |          |
13+15      12.0508     16.93  Q     V   |          |          |          |
13+20      12.1690     17.17  Q     V   |          |          |          |
13+25      12.2891     17.43  Q     V   |          |          |          |
13+30      12.4112     17.73  Q     V   |          |          |          |
13+35      12.5355     18.05  Q     V   |          |          |          |
13+40      12.6622     18.40  Q     V   |          |          |          |
13+45      12.7915     18.77  Q     V   |          |          |          |
13+50      12.9235     19.17  Q     V   |          |          |          |
13+55      13.0586     19.61  Q      V  |          |          |          |
14+ 0      13.1969     20.08  Q      V  |          |          |          |
14+ 5      13.3387     20.60  Q      V  |          |          |          |
14+10      13.4848     21.21  Q      V  |          |          |          |
14+15      13.6357     21.92  Q      V  |          |          |          |
14+20      13.7927     22.80  |Q     V  |          |          |          |
14+25      13.9573     23.90  |Q     V  |          |          |          |
14+30      14.1293     24.97  |Q     V  |          |          |          |
14+35      14.3085     26.02  |Q     V  |          |          |          |
14+40      14.4949     27.08  |Q     V  |          |          |          |
14+45      14.6891     28.19  |Q     V  |          |          |          |
14+50      14.8914     29.37  |Q     V  |          |          |          |
14+55      15.1025     30.65  |Q      V |          |          |          |
15+ 0      15.3231     32.03  |Q      V |          |          |          |
15+ 5      15.5541     33.55  |Q      V |          |          |          |
15+10      15.7967     35.22  |Q      V |          |          |          |
15+15      16.0522     37.11  |Q      V |          |          |          |
15+20      16.3223     39.22  |Q      V |          |          |          |
15+25      16.6114     41.97  |Q      V |          |          |          |
15+30      16.9273     45.87  | Q      V|          |          |          |
15+35      17.2796     51.16  | Q      V|          |          |          |
15+40      17.6878     59.27  | Q      V|          |          |          |
15+45      18.1779     71.17  |  Q     V|          |          |          |
15+50      18.7603     84.56  |  Q      V          |          |          |
15+55      19.4616    101.84  |   Q     V          |          |          |
16+ 0      20.3516    129.22  |    Q    V          |          |          |
16+ 5      21.7149    197.95  |       Q |V         |          |          |
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16+10      23.8986    317.07  |         | V Q     |         |         |
16+15      27.0085    451.55  |         |   V     Q         |         |
16+20      31.6824    678.66  |         |      V  |         Q         |
16+25      37.6835    871.36  |         |         V         |       Q |
16+30      42.6367    719.20  |         |         | V       |Q        |
16+35      46.3979    546.13  |         |         |   Q     |         |
16+40      49.2419    412.95  |         |       Q |     V   |         |
16+45      51.5280    331.94  |         |   Q     |      V  |         |
16+50      53.4564    280.00  |         | Q       |       V |         |
16+55      55.0830    236.18  |         Q         |        V|         |
17+ 0      56.5041    206.35  |        Q|         |         V         |
17+ 5      57.7338    178.55  |      Q  |         |         V         |
17+10      58.8218    157.97  |      Q  |         |         |V        |
17+15      59.8113    143.68  |     Q   |         |         | V       |
17+20      60.7118    130.75  |    Q    |         |         | V       |
17+25      61.5129    116.33  |    Q    |         |         |  V      |
17+30      62.2144    101.85  |   Q     |         |         |  V      |
17+35      62.8492     92.17  |   Q     |         |         |  V      |
17+40      63.4412     85.97  |  Q      |         |         |   V     |
17+45      63.9835     78.74  |  Q      |         |         |   V     |
17+50      64.4877     73.21  |  Q      |         |         |   V     |
17+55      64.9540     67.71  |  Q      |         |         |   V     |
18+ 0      65.3706     60.50  | Q       |         |         |    V    |
18+ 5      65.7656     57.35  | Q       |         |         |    V    |
18+10      66.1351     53.66  | Q       |         |         |    V    |
18+15      66.4696     48.56  | Q       |         |         |    V    |
18+20      66.7924     46.88  | Q       |         |         |    V    |
18+25      67.0933     43.69  |Q        |         |         |     V   |
18+30      67.3691     40.05  |Q        |         |         |     V   |
18+35      67.6354     38.66  |Q        |         |         |     V   |
18+40      67.8729     34.49  |Q        |         |         |     V   |
18+45      68.0926     31.91  |Q        |         |         |     V   |
18+50      68.3092     31.44  |Q        |         |         |     V   |
18+55      68.5284     31.83  |Q        |         |         |     V   |
19+ 0      68.7459     31.58  |Q        |         |         |     V   |
19+ 5      68.9591     30.96  |Q        |         |         |      V  |
19+10      69.1672     30.21  |Q        |         |         |      V  |
19+15      69.3684     29.22  |Q        |         |         |      V  |
19+20      69.5552     27.13  |Q        |         |         |      V  |
19+25      69.7188     23.75  |Q        |         |         |      V  |
19+30      69.8748     22.65  |Q        |         |         |      V  |
19+35      70.0232     21.54  Q         |         |         |      V  |
19+40      70.1515     18.64  Q         |         |         |      V  |
19+45      70.2619     16.03  Q         |         |         |      V  |
19+50      70.3685     15.47  Q         |         |         |      V  |
19+55      70.4722     15.06  Q         |         |         |      V  |
20+ 0      70.5735     14.71  Q         |         |         |      V  |
20+ 5      70.6727     14.41  Q         |         |         |      V  |
20+10      70.7701     14.14  Q         |         |         |      V  |
20+15      70.8656     13.87  Q         |         |         |       V |
20+20      70.9595     13.63  Q         |         |         |       V |
20+25      71.0517     13.39  Q         |         |         |       V |
20+30      71.1423     13.16  Q         |         |         |       V |
20+35      71.2315     12.95  Q         |         |         |       V |
20+40      71.3192     12.74  Q         |         |         |       V |
20+45      71.4056     12.53  Q         |         |         |       V |
20+50      71.4905     12.34  Q         |         |         |       V |
20+55      71.5743     12.16  Q         |         |         |       V |
21+ 0      71.6568     11.98  Q         |         |         |       V |
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21+ 5      71.7382     11.81  Q         |          |          |       V |
21+10      71.8184     11.65  Q         |          |          |       V |
21+15      71.8976     11.49  Q         |          |          |       V |
21+20      71.9757     11.34  Q         |          |          |       V |
21+25      72.0528     11.19  Q         |          |          |       V |
21+30      72.1288     11.04  Q         |          |          |       V |
21+35      72.2039     10.90  Q         |          |          |       V |
21+40      72.2780     10.76  Q         |          |          |       V |
21+45      72.3512     10.62  Q         |          |          |       V |
21+50      72.4234     10.49  Q         |          |          |       V |
21+55      72.4948     10.36  Q         |          |          |       V |
22+ 0      72.5652     10.23  Q         |          |          |       V |
22+ 5      72.6348     10.11  Q         |          |          |        V|
22+10      72.7036      9.99  Q         |          |          |        V|
22+15      72.7716      9.87  Q         |          |          |        V|
22+20      72.8388      9.76  Q         |          |          |        V|
22+25      72.9052      9.65  Q         |          |          |        V|
22+30      72.9709      9.54  Q         |          |          |        V|
22+35      73.0359      9.43  Q         |          |          |        V|
22+40      73.1002      9.33  Q         |          |          |        V|
22+45      73.1638      9.23  Q         |          |          |        V|
22+50      73.2267      9.14  Q         |          |          |        V|
22+55      73.2890      9.04  Q         |          |          |        V|
23+ 0      73.3506      8.95  Q         |          |          |        V|
23+ 5      73.4116      8.86  Q         |          |          |        V|
23+10      73.4721      8.77  Q         |          |          |        V|
23+15      73.5319      8.69  Q         |          |          |        V|
23+20      73.5912      8.60  Q         |          |          |        V|
23+25      73.6499      8.52  Q         |          |          |        V|
23+30      73.7080      8.44  Q         |          |          |        V|
23+35      73.7656      8.36  Q         |          |          |        V|
23+40      73.8227      8.29  Q         |          |          |        V|
23+45      73.8793      8.21  Q         |          |          |        V|
23+50      73.9353      8.14  Q         |          |          |        V|
23+55      73.9909      8.07  Q         |          |          |        V|
24+ 0      74.0460      8.00  Q         |          |          |        V|
24+ 5      74.1002      7.87  Q         |          |          |        V|
24+10      74.1524      7.59  Q         |          |          |        V|
24+15      74.2016      7.15  Q         |          |          |        V|
24+20      74.2451      6.32  Q         |          |          |        V|
24+25      74.2799      5.05  Q         |          |          |        V|
24+30      74.3079      4.06  Q         |          |          |        V|
24+35      74.3309      3.35  Q         |          |          |        V|
24+40      74.3506      2.86  Q         |          |          |        V|
24+45      74.3677      2.47  Q         |          |          |        V|
24+50      74.3825      2.16  Q         |          |          |        V|
24+55      74.3956      1.90  Q         |          |          |        V|
25+ 0      74.4071      1.67  Q         |          |          |        V|
25+ 5      74.4173      1.48  Q         |          |          |        V|
25+10      74.4264      1.32  Q         |          |          |        V|
25+15      74.4345      1.18  Q         |          |          |        V|
25+20      74.4417      1.04  Q         |          |          |        V|
25+25      74.4481      0.93  Q         |          |          |        V|
25+30      74.4539      0.83  Q         |          |          |        V|
25+35      74.4590      0.75  Q         |          |          |        V|
25+40      74.4636      0.67  Q         |          |          |        V|
25+45      74.4678      0.60  Q         |          |          |        V|
25+50      74.4714      0.53  Q         |          |          |        V|
25+55      74.4747      0.47  Q         |          |          |        V|
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   26+ 0      74.4776      0.42  Q         |         |         |        V|
   26+ 5      74.4802      0.37  Q         |         |         |        V|
   26+10      74.4824      0.33  Q         |         |         |        V|
   26+15      74.4844      0.29  Q         |         |         |        V|
   26+20      74.4862      0.26  Q         |         |         |        V|
   26+25      74.4877      0.22  Q         |         |         |        V|
   26+30      74.4891      0.20  Q         |         |         |        V|
   26+35      74.4903      0.17  Q         |         |         |        V|
   26+40      74.4914      0.15  Q         |         |         |        V|
   26+45      74.4923      0.14  Q         |         |         |        V|
   26+50      74.4932      0.13  Q         |         |         |        V|
   26+55      74.4940      0.11  Q         |         |         |        V|
   27+ 0      74.4946      0.09  Q         |         |         |        V|
   27+ 5      74.4951      0.08  Q         |         |         |        V|
   27+10      74.4955      0.06  Q         |         |         |        V|
   27+15      74.4958      0.04  Q         |         |         |        V|
   27+20      74.4960      0.03  Q         |         |         |        V|
   27+25      74.4962      0.02  Q         |         |         |        V|
   27+30      74.4963      0.01  Q         |         |         |        V|
   27+35      74.4963      0.00  Q         |         |         |         V
----------------------------------------------------------------------
```

U n i t H y d r o g r a p h A n a l y s i s

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Study date 08/10/17

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San Bernardino County Synthetic Unit Hydrology Method
Manual date - August 1986

Program License Serial Number 6320

164309 - NRG COOLWATER SOLAR FACILITY - DAGGETT, CA
OFFSITE AREA "I"
100-YEAR, 24-HOUR STORM EVENT
BY: JDN, DATE: 08-10-17

Storm Event Year = 100

Antecedent Moisture Condition = 3

English (in-lb) Input Units Used

English Rainfall Data (Inches) Input Values Used

English Units used in output format

Area averaged rainfall intensity isohyetal data:

Sub-Area (Ac.)	Duration (hours)	Isohyetal (In)
Rainfall data for year 100		
5065.68	1	1.41
Rainfall data for year 100		
5065.68	6	2.15
Rainfall data for year 100		
5065.68	24	3.19

++

******** Area-averaged max loss rate, Fm ********

SCS curve No.(AMCII)	SCS curve NO.(AMC 3)	Area (Ac.)	Area Fraction	Fp(Fig C6) (In/Hr)	Ap (dec.)	Fm (In/Hr)
78.6	93.2	5065.68	1.000	0.133	0.988	0.131

Area-averaged adjusted loss rate Fm (In/Hr) = 0.131

********* Area-Averaged low loss rate fraction, Yb **********

Area (Ac.)	Area Fract	SCS CN (AMC2)	SCS CN (AMC3)	S	Pervious Yield Fr
5004.89	0.988	78.6	93.2	0.73	0.769
60.79	0.012	98.0	98.0	0.20	0.927

Area-averaged catchment yield fraction, Y = 0.771
Area-averaged low loss fraction, Yb = 0.229
++
Watercourse length = 36340.00(Ft.)
Length from concentration point to centroid = 20373.00(Ft.)
Elevation difference along watercourse = 2873.00(Ft.)
Mannings friction factor along watercourse = 0.035
Watershed area = 5065.68(Ac.)
Catchment Lag time = 0.928 hours
Unit interval = 5.000 minutes
Unit interval percentage of lag time = 8.9798
Hydrograph baseflow = 0.00(CFS)
Average maximum watershed loss rate(Fm) = 0.131(In/Hr)
Average low loss rate fraction (Yb) = 0.229 (decimal)
VALLEY DEVELOPED S-Graph proportion = 0.000
VALLEY UNDEVELOPED S-Graph proportion = 0.000
FOOTHILL S-Graph proportion = 0.350
MOUNTAIN S-Graph proportion = 0.000
DESERT S-Graph proportion = 0.650

Computed peak 5-minute rainfall = 0.667(In)
Computed peak 30-minute rainfall = 1.142(In)
Specified peak 1-hour rainfall = 1.406(In)
Computed peak 3-hour rainfall = 1.825(In)
Specified peak 6-hour rainfall = 2.152(In)
Specified peak 24-hour rainfall = 3.190(In)

Rainfall depth area reduction factors:
Using a total area of 5065.68(Ac.) (Ref: fig. E-4)

5-minute factor = 0.789 Adjusted rainfall = 0.526(In)
30-minute factor = 0.789 Adjusted rainfall = 0.901(In)
1-hour factor = 0.789 Adjusted rainfall = 1.109(In)
3-hour factor = 0.971 Adjusted rainfall = 1.773(In)
6-hour factor = 0.985 Adjusted rainfall = 2.120(In)
24-hour factor = 0.993 Adjusted rainfall = 3.168(In)

U n i t H y d r o g r a p h
++
Interval Number	'S' Graph Mean values	Unit Hydrograph ((CFS))
	(K = 61263.07 (CFS))	
1	0.456	279.282
2	1.465	618.058
3	2.975	925.207
4	4.943	1205.399
5	7.381	1493.866

6	10.425	1864.934
7	15.020	2814.736
8	21.472	3953.074
9	29.000	4611.524
10	36.407	4537.777
11	44.692	5075.807
12	51.868	4396.264
13	56.805	3024.801
14	60.623	2338.953
15	63.863	1984.534
16	66.692	1733.406
17	69.176	1521.492
18	71.395	1359.667
19	73.442	1254.192
20	75.313	1145.887
21	76.954	1005.588
22	78.531	966.106
23	80.001	900.544
24	81.237	756.902
25	82.460	749.275
26	83.587	690.486
27	84.595	617.453
28	85.600	616.108
29	86.514	559.592
30	87.376	528.123
31	88.228	521.914
32	88.974	457.261
33	89.692	440.103
34	90.382	422.198
35	90.947	346.313
36	91.498	337.779
37	92.026	323.070
38	92.505	293.504
39	92.982	292.656
40	93.422	269.641
41	93.828	248.658
42	94.232	247.585
43	94.595	222.068
44	94.940	211.249
45	95.273	204.346
46	95.526	154.554
47	95.762	144.684
48	95.998	144.684
49	96.234	144.684
50	96.470	144.684
51	96.686	131.905
52	96.869	112.432
53	97.052	112.226
54	97.236	112.226
55	97.419	112.226
56	97.599	110.376
57	97.737	84.330
58	97.860	75.918
59	97.984	75.918
60	98.108	75.918
61	98.232	75.918
62	98.345	68.933
63	98.429	51.928
64	98.513	51.162

65	98.597	51.162
66	98.680	51.162
67	98.764	51.153
68	98.846	50.795
69	98.929	50.612
70	99.012	50.612
71	99.094	50.612
72	99.177	50.612
73	99.258	49.883
74	99.335	47.046
75	99.411	46.761
76	99.488	46.761
77	99.564	46.761
78	99.643	48.483
79	99.695	31.686
80	99.731	22.349
81	99.768	22.349
82	99.804	22.349
83	99.841	22.349
84	99.877	22.349
85	99.914	22.349
86	99.950	22.349
87	100.000	11.174

Peak Unit Number	Adjusted mass rainfall (In)	Unit rainfall (In)
1	0.5262	0.5262
2	0.6479	0.1216
3	0.7317	0.0838
4	0.7976	0.0660
5	0.8529	0.0552
6	0.9008	0.0479
7	0.9434	0.0426
8	0.9820	0.0386
9	1.0173	0.0353
10	1.0500	0.0327
11	1.0805	0.0305
12	1.1090	0.0286
13	1.1476	0.0385
14	1.1845	0.0369
15	1.2198	0.0354
16	1.2539	0.0341
17	1.2868	0.0329
18	1.3186	0.0318
19	1.3493	0.0308
20	1.3792	0.0299
21	1.4082	0.0290
22	1.4365	0.0282
23	1.4640	0.0275
24	1.4908	0.0268
25	1.5170	0.0262
26	1.5426	0.0256
27	1.5677	0.0251
28	1.5922	0.0245
29	1.6162	0.0240
30	1.6398	0.0236
31	1.6629	0.0231
32	1.6856	0.0227
33	1.7079	0.0223

34	1.7298	0.0219
35	1.7513	0.0215
36	1.7725	0.0212
37	1.7851	0.0126
38	1.7975	0.0124
39	1.8096	0.0121
40	1.8215	0.0119
41	1.8331	0.0117
42	1.8446	0.0115
43	1.8558	0.0113
44	1.8669	0.0111
45	1.8778	0.0109
46	1.8885	0.0107
47	1.8990	0.0105
48	1.9094	0.0104
49	1.9196	0.0102
50	1.9296	0.0101
51	1.9396	0.0099
52	1.9493	0.0098
53	1.9589	0.0096
54	1.9684	0.0095
55	1.9778	0.0094
56	1.9870	0.0092
57	1.9961	0.0091
58	2.0051	0.0090
59	2.0140	0.0089
60	2.0228	0.0088
61	2.0315	0.0087
62	2.0400	0.0086
63	2.0485	0.0085
64	2.0568	0.0084
65	2.0651	0.0083
66	2.0733	0.0082
67	2.0813	0.0081
68	2.0893	0.0080
69	2.0972	0.0079
70	2.1051	0.0078
71	2.1128	0.0077
72	2.1204	0.0077
73	2.1289	0.0085
74	2.1373	0.0084
75	2.1457	0.0083
76	2.1539	0.0082
77	2.1621	0.0082
78	2.1702	0.0081
79	2.1782	0.0080
80	2.1861	0.0079
81	2.1940	0.0079
82	2.2018	0.0078
83	2.2096	0.0077
84	2.2172	0.0077
85	2.2249	0.0076
86	2.2324	0.0075
87	2.2399	0.0075
88	2.2473	0.0074
89	2.2547	0.0074
90	2.2620	0.0073
91	2.2692	0.0072
92	2.2764	0.0072

93	2.2836	0.0071
94	2.2907	0.0071
95	2.2977	0.0070
96	2.3047	0.0070
97	2.3116	0.0069
98	2.3185	0.0069
99	2.3253	0.0068
100	2.3321	0.0068
101	2.3388	0.0067
102	2.3455	0.0067
103	2.3521	0.0066
104	2.3587	0.0066
105	2.3653	0.0065
106	2.3718	0.0065
107	2.3782	0.0065
108	2.3846	0.0064
109	2.3910	0.0064
110	2.3973	0.0063
111	2.4036	0.0063
112	2.4099	0.0063
113	2.4161	0.0062
114	2.4223	0.0062
115	2.4284	0.0061
116	2.4345	0.0061
117	2.4405	0.0061
118	2.4466	0.0060
119	2.4526	0.0060
120	2.4585	0.0060
121	2.4644	0.0059
122	2.4703	0.0059
123	2.4762	0.0058
124	2.4820	0.0058
125	2.4877	0.0058
126	2.4935	0.0057
127	2.4992	0.0057
128	2.5049	0.0057
129	2.5105	0.0057
130	2.5162	0.0056
131	2.5218	0.0056
132	2.5273	0.0056
133	2.5328	0.0055
134	2.5383	0.0055
135	2.5438	0.0055
136	2.5493	0.0054
137	2.5547	0.0054
138	2.5601	0.0054
139	2.5654	0.0054
140	2.5707	0.0053
141	2.5760	0.0053
142	2.5813	0.0053
143	2.5866	0.0053
144	2.5918	0.0052
145	2.5970	0.0052
146	2.6022	0.0052
147	2.6073	0.0051
148	2.6124	0.0051
149	2.6175	0.0051
150	2.6226	0.0051
151	2.6277	0.0051

152	2.6327	0.0050
153	2.6377	0.0050
154	2.6427	0.0050
155	2.6476	0.0050
156	2.6526	0.0049
157	2.6575	0.0049
158	2.6624	0.0049
159	2.6673	0.0049
160	2.6721	0.0048
161	2.6769	0.0048
162	2.6817	0.0048
163	2.6865	0.0048
164	2.6913	0.0048
165	2.6960	0.0047
166	2.7007	0.0047
167	2.7054	0.0047
168	2.7101	0.0047
169	2.7148	0.0047
170	2.7194	0.0046
171	2.7240	0.0046
172	2.7287	0.0046
173	2.7332	0.0046
174	2.7378	0.0046
175	2.7424	0.0045
176	2.7469	0.0045
177	2.7514	0.0045
178	2.7559	0.0045
179	2.7604	0.0045
180	2.7648	0.0045
181	2.7693	0.0044
182	2.7737	0.0044
183	2.7781	0.0044
184	2.7825	0.0044
185	2.7868	0.0044
186	2.7912	0.0044
187	2.7955	0.0043
188	2.7999	0.0043
189	2.8042	0.0043
190	2.8084	0.0043
191	2.8127	0.0043
192	2.8170	0.0043
193	2.8212	0.0042
194	2.8254	0.0042
195	2.8296	0.0042
196	2.8338	0.0042
197	2.8380	0.0042
198	2.8422	0.0042
199	2.8463	0.0041
200	2.8505	0.0041
201	2.8546	0.0041
202	2.8587	0.0041
203	2.8628	0.0041
204	2.8669	0.0041
205	2.8709	0.0041
206	2.8750	0.0040
207	2.8790	0.0040
208	2.8830	0.0040
209	2.8870	0.0040
210	2.8910	0.0040

211	2.8950	0.0040
212	2.8990	0.0040
213	2.9029	0.0040
214	2.9069	0.0039
215	2.9108	0.0039
216	2.9147	0.0039
217	2.9186	0.0039
218	2.9225	0.0039
219	2.9264	0.0039
220	2.9302	0.0039
221	2.9341	0.0039
222	2.9379	0.0038
223	2.9418	0.0038
224	2.9456	0.0038
225	2.9494	0.0038
226	2.9532	0.0038
227	2.9569	0.0038
228	2.9607	0.0038
229	2.9645	0.0038
230	2.9682	0.0037
231	2.9719	0.0037
232	2.9757	0.0037
233	2.9794	0.0037
234	2.9831	0.0037
235	2.9868	0.0037
236	2.9904	0.0037
237	2.9941	0.0037
238	2.9977	0.0037
239	3.0014	0.0036
240	3.0050	0.0036
241	3.0086	0.0036
242	3.0122	0.0036
243	3.0158	0.0036
244	3.0194	0.0036
245	3.0230	0.0036
246	3.0266	0.0036
247	3.0301	0.0036
248	3.0337	0.0035
249	3.0372	0.0035
250	3.0408	0.0035
251	3.0443	0.0035
252	3.0478	0.0035
253	3.0513	0.0035
254	3.0548	0.0035
255	3.0582	0.0035
256	3.0617	0.0035
257	3.0652	0.0035
258	3.0686	0.0034
259	3.0721	0.0034
260	3.0755	0.0034
261	3.0789	0.0034
262	3.0823	0.0034
263	3.0857	0.0034
264	3.0891	0.0034
265	3.0925	0.0034
266	3.0959	0.0034
267	3.0992	0.0034
268	3.1026	0.0034
269	3.1059	0.0033

270	3.1093	0.0033
271	3.1126	0.0033
272	3.1159	0.0033
273	3.1192	0.0033
274	3.1226	0.0033
275	3.1258	0.0033
276	3.1291	0.0033
277	3.1324	0.0033
278	3.1357	0.0033
279	3.1389	0.0033
280	3.1422	0.0033
281	3.1454	0.0032
282	3.1487	0.0032
283	3.1519	0.0032
284	3.1551	0.0032
285	3.1583	0.0032
286	3.1616	0.0032
287	3.1648	0.0032
288	3.1679	0.0032

Unit Period (number)	Unit Rainfall (In)	Unit Soil-Loss (In)	Effective Rainfall (In)
1	0.0032	0.0007	0.0025
2	0.0032	0.0007	0.0025
3	0.0032	0.0007	0.0025
4	0.0032	0.0007	0.0025
5	0.0032	0.0007	0.0025
6	0.0032	0.0007	0.0025
7	0.0033	0.0007	0.0025
8	0.0033	0.0007	0.0025
9	0.0033	0.0008	0.0025
10	0.0033	0.0008	0.0025
11	0.0033	0.0008	0.0026
12	0.0033	0.0008	0.0026
13	0.0033	0.0008	0.0026
14	0.0033	0.0008	0.0026
15	0.0034	0.0008	0.0026
16	0.0034	0.0008	0.0026
17	0.0034	0.0008	0.0026
18	0.0034	0.0008	0.0026
19	0.0034	0.0008	0.0026
20	0.0034	0.0008	0.0026
21	0.0034	0.0008	0.0027
22	0.0035	0.0008	0.0027
23	0.0035	0.0008	0.0027
24	0.0035	0.0008	0.0027
25	0.0035	0.0008	0.0027
26	0.0035	0.0008	0.0027
27	0.0035	0.0008	0.0027
28	0.0035	0.0008	0.0027
29	0.0036	0.0008	0.0028
30	0.0036	0.0008	0.0028
31	0.0036	0.0008	0.0028
32	0.0036	0.0008	0.0028
33	0.0036	0.0008	0.0028
34	0.0036	0.0008	0.0028
35	0.0037	0.0008	0.0028

36	0.0037	0.0008	0.0028
37	0.0037	0.0008	0.0029
38	0.0037	0.0008	0.0029
39	0.0037	0.0009	0.0029
40	0.0037	0.0009	0.0029
41	0.0038	0.0009	0.0029
42	0.0038	0.0009	0.0029
43	0.0038	0.0009	0.0029
44	0.0038	0.0009	0.0029
45	0.0038	0.0009	0.0030
46	0.0039	0.0009	0.0030
47	0.0039	0.0009	0.0030
48	0.0039	0.0009	0.0030
49	0.0039	0.0009	0.0030
50	0.0039	0.0009	0.0030
51	0.0040	0.0009	0.0030
52	0.0040	0.0009	0.0031
53	0.0040	0.0009	0.0031
54	0.0040	0.0009	0.0031
55	0.0040	0.0009	0.0031
56	0.0040	0.0009	0.0031
57	0.0041	0.0009	0.0031
58	0.0041	0.0009	0.0032
59	0.0041	0.0009	0.0032
60	0.0041	0.0009	0.0032
61	0.0042	0.0010	0.0032
62	0.0042	0.0010	0.0032
63	0.0042	0.0010	0.0032
64	0.0042	0.0010	0.0033
65	0.0043	0.0010	0.0033
66	0.0043	0.0010	0.0033
67	0.0043	0.0010	0.0033
68	0.0043	0.0010	0.0033
69	0.0044	0.0010	0.0034
70	0.0044	0.0010	0.0034
71	0.0044	0.0010	0.0034
72	0.0044	0.0010	0.0034
73	0.0045	0.0010	0.0034
74	0.0045	0.0010	0.0035
75	0.0045	0.0010	0.0035
76	0.0045	0.0010	0.0035
77	0.0046	0.0010	0.0035
78	0.0046	0.0010	0.0035
79	0.0046	0.0011	0.0036
80	0.0046	0.0011	0.0036
81	0.0047	0.0011	0.0036
82	0.0047	0.0011	0.0036
83	0.0047	0.0011	0.0037
84	0.0048	0.0011	0.0037
85	0.0048	0.0011	0.0037
86	0.0048	0.0011	0.0037
87	0.0049	0.0011	0.0038
88	0.0049	0.0011	0.0038
89	0.0049	0.0011	0.0038
90	0.0050	0.0011	0.0038
91	0.0050	0.0011	0.0039
92	0.0050	0.0012	0.0039
93	0.0051	0.0012	0.0039
94	0.0051	0.0012	0.0039

95	0.0051	0.0012	0.0040
96	0.0052	0.0012	0.0040
97	0.0052	0.0012	0.0040
98	0.0053	0.0012	0.0040
99	0.0053	0.0012	0.0041
100	0.0053	0.0012	0.0041
101	0.0054	0.0012	0.0042
102	0.0054	0.0012	0.0042
103	0.0055	0.0013	0.0042
104	0.0055	0.0013	0.0042
105	0.0056	0.0013	0.0043
106	0.0056	0.0013	0.0043
107	0.0057	0.0013	0.0044
108	0.0057	0.0013	0.0044
109	0.0057	0.0013	0.0044
110	0.0058	0.0013	0.0045
111	0.0058	0.0013	0.0045
112	0.0059	0.0013	0.0045
113	0.0060	0.0014	0.0046
114	0.0060	0.0014	0.0046
115	0.0061	0.0014	0.0047
116	0.0061	0.0014	0.0047
117	0.0062	0.0014	0.0048
118	0.0062	0.0014	0.0048
119	0.0063	0.0014	0.0049
120	0.0063	0.0014	0.0049
121	0.0064	0.0015	0.0049
122	0.0065	0.0015	0.0050
123	0.0065	0.0015	0.0050
124	0.0066	0.0015	0.0051
125	0.0067	0.0015	0.0052
126	0.0067	0.0015	0.0052
127	0.0068	0.0016	0.0053
128	0.0069	0.0016	0.0053
129	0.0070	0.0016	0.0054
130	0.0070	0.0016	0.0054
131	0.0071	0.0016	0.0055
132	0.0072	0.0016	0.0055
133	0.0073	0.0017	0.0056
134	0.0074	0.0017	0.0057
135	0.0075	0.0017	0.0058
136	0.0075	0.0017	0.0058
137	0.0077	0.0018	0.0059
138	0.0077	0.0018	0.0060
139	0.0079	0.0018	0.0061
140	0.0079	0.0018	0.0061
141	0.0081	0.0019	0.0062
142	0.0082	0.0019	0.0063
143	0.0083	0.0019	0.0064
144	0.0084	0.0019	0.0065
145	0.0077	0.0018	0.0059
146	0.0077	0.0018	0.0060
147	0.0079	0.0018	0.0061
148	0.0080	0.0018	0.0062
149	0.0082	0.0019	0.0063
150	0.0083	0.0019	0.0064
151	0.0085	0.0019	0.0065
152	0.0086	0.0020	0.0066
153	0.0088	0.0020	0.0068

154	0.0089	0.0020	0.0068
155	0.0091	0.0021	0.0070
156	0.0092	0.0021	0.0071
157	0.0095	0.0022	0.0073
158	0.0096	0.0022	0.0074
159	0.0099	0.0023	0.0076
160	0.0101	0.0023	0.0078
161	0.0104	0.0024	0.0080
162	0.0105	0.0024	0.0081
163	0.0109	0.0025	0.0084
164	0.0111	0.0025	0.0085
165	0.0115	0.0026	0.0088
166	0.0117	0.0027	0.0090
167	0.0121	0.0028	0.0093
168	0.0124	0.0028	0.0095
169	0.0212	0.0048	0.0163
170	0.0215	0.0049	0.0166
171	0.0223	0.0051	0.0172
172	0.0227	0.0052	0.0175
173	0.0236	0.0054	0.0182
174	0.0240	0.0055	0.0185
175	0.0251	0.0057	0.0193
176	0.0256	0.0059	0.0197
177	0.0268	0.0061	0.0207
178	0.0275	0.0063	0.0212
179	0.0290	0.0066	0.0224
180	0.0299	0.0068	0.0230
181	0.0318	0.0073	0.0245
182	0.0329	0.0075	0.0253
183	0.0354	0.0081	0.0273
184	0.0369	0.0084	0.0284
185	0.0286	0.0065	0.0220
186	0.0305	0.0070	0.0235
187	0.0353	0.0081	0.0272
188	0.0386	0.0088	0.0297
189	0.0479	0.0109	0.0370
190	0.0552	0.0109	0.0443
191	0.0838	0.0109	0.0729
192	0.1216	0.0109	0.1107
193	0.5262	0.0109	0.5153
194	0.0660	0.0109	0.0550
195	0.0426	0.0098	0.0329
196	0.0327	0.0075	0.0252
197	0.0385	0.0088	0.0297
198	0.0341	0.0078	0.0263
199	0.0308	0.0070	0.0237
200	0.0282	0.0065	0.0218
201	0.0262	0.0060	0.0202
202	0.0245	0.0056	0.0189
203	0.0231	0.0053	0.0178
204	0.0219	0.0050	0.0169
205	0.0126	0.0029	0.0097
206	0.0119	0.0027	0.0092
207	0.0113	0.0026	0.0087
208	0.0107	0.0024	0.0083
209	0.0102	0.0023	0.0079
210	0.0098	0.0022	0.0075
211	0.0094	0.0021	0.0072
212	0.0090	0.0021	0.0069

213	0.0087	0.0020	0.0067
214	0.0084	0.0019	0.0064
215	0.0081	0.0018	0.0062
216	0.0078	0.0018	0.0060
217	0.0085	0.0019	0.0065
218	0.0082	0.0019	0.0064
219	0.0080	0.0018	0.0062
220	0.0078	0.0018	0.0060
221	0.0076	0.0017	0.0059
222	0.0074	0.0017	0.0057
223	0.0072	0.0017	0.0056
224	0.0071	0.0016	0.0055
225	0.0069	0.0016	0.0053
226	0.0068	0.0016	0.0052
227	0.0066	0.0015	0.0051
228	0.0065	0.0015	0.0050
229	0.0064	0.0015	0.0049
230	0.0063	0.0014	0.0048
231	0.0061	0.0014	0.0047
232	0.0060	0.0014	0.0046
233	0.0059	0.0014	0.0046
234	0.0058	0.0013	0.0045
235	0.0057	0.0013	0.0044
236	0.0056	0.0013	0.0043
237	0.0055	0.0013	0.0043
238	0.0054	0.0012	0.0042
239	0.0054	0.0012	0.0041
240	0.0053	0.0012	0.0041
241	0.0052	0.0012	0.0040
242	0.0051	0.0012	0.0040
243	0.0051	0.0012	0.0039
244	0.0050	0.0011	0.0038
245	0.0049	0.0011	0.0038
246	0.0048	0.0011	0.0037
247	0.0048	0.0011	0.0037
248	0.0047	0.0011	0.0036
249	0.0047	0.0011	0.0036
250	0.0046	0.0011	0.0036
251	0.0045	0.0010	0.0035
252	0.0045	0.0010	0.0035
253	0.0044	0.0010	0.0034
254	0.0044	0.0010	0.0034
255	0.0043	0.0010	0.0033
256	0.0043	0.0010	0.0033
257	0.0042	0.0010	0.0033
258	0.0042	0.0010	0.0032
259	0.0041	0.0009	0.0032
260	0.0041	0.0009	0.0032
261	0.0041	0.0009	0.0031
262	0.0040	0.0009	0.0031
263	0.0040	0.0009	0.0031
264	0.0039	0.0009	0.0030
265	0.0039	0.0009	0.0030
266	0.0039	0.0009	0.0030
267	0.0038	0.0009	0.0030
268	0.0038	0.0009	0.0029
269	0.0038	0.0009	0.0029
270	0.0037	0.0009	0.0029
271	0.0037	0.0008	0.0028

272	0.0037	0.0008	0.0028
273	0.0036	0.0008	0.0028
274	0.0036	0.0008	0.0028
275	0.0036	0.0008	0.0027
276	0.0035	0.0008	0.0027
277	0.0035	0.0008	0.0027
278	0.0035	0.0008	0.0027
279	0.0034	0.0008	0.0027
280	0.0034	0.0008	0.0026
281	0.0034	0.0008	0.0026
282	0.0034	0.0008	0.0026
283	0.0033	0.0008	0.0026
284	0.0033	0.0008	0.0025
285	0.0033	0.0008	0.0025
286	0.0033	0.0007	0.0025
287	0.0032	0.0007	0.0025
288	0.0032	0.0007	0.0025

Total soil rain loss = 0.58(In)
Total effective rainfall = 2.58(In)
Peak flow rate in flood hydrograph = 4662.63(CFS)

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24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	1175.0	2350.0	3525.0	4700.0
0+ 5	0.0047	0.69	Q	|	|	|	|
0+10	0.0199	2.21	Q	|	|	|	|
0+15	0.0509	4.49	Q	|	|	|	|
0+20	0.1023	7.47	Q	|	|	|	|
0+25	0.1793	11.17	Q	|	|	|	|
0+30	0.2881	15.80	Q	|	|	|	|
0+35	0.4449	22.78	Q	|	|	|	|
0+40	0.6693	32.58	Q	|	|	|	|
0+45	0.9726	44.04	Q	|	|	|	|
0+50	1.3538	55.36	Q	|	|	|	|
0+55	1.8225	68.04	Q	|	|	|	|
1+ 0	2.3673	79.10	Q	|	|	|	|
1+ 5	2.9653	86.84	Q	|	|	|	|
1+10	3.6052	92.92	Q	|	|	|	|
1+15	4.2812	98.15	Q	|	|	|	|
1+20	4.9891	102.79	Q	|	|	|	|
1+25	5.7255	106.92	Q	|	|	|	|
1+30	6.4877	110.68	Q	|	|	|	|
1+35	7.2741	114.19	Q	|	|	|	|
1+40	8.0830	117.45	Q	|	|	|	|
1+45	8.9120	120.38	VQ	|	|	|	|
1+50	9.7607	123.23	VQ	|	|	|	|
1+55	10.6280	125.93	VQ	|	|	|	|
2+ 0	11.5115	128.29	VQ	|	|	|	|
2+ 5	12.4112	130.64	VQ	|	|	|	|
2+10	13.3262	132.86	VQ	|	|	|	|
2+15	14.2553	134.91	VQ	|	|	|	|

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2+20      15.1986    136.97  VQ        |         |         |         |
2+25      16.1553    138.90  VQ        |         |         |         |
2+30      17.1247    140.76  VQ        |         |         |         |
2+35      18.1070    142.62  VQ        |         |         |         |
2+40      19.1010    144.33  VQ        |         |         |         |
2+45      20.1066    146.01  VQ        |         |         |         |
2+50      21.1235    147.66  VQ        |         |         |         |
2+55      22.1506    149.13  VQ        |         |         |         |
3+ 0      23.1877    150.58  VQ        |         |         |         |
3+ 5      24.2346    152.02  VQ        |         |         |         |
3+10      25.2910    153.38  VQ        |         |         |         |
3+15      26.3568    154.76  VQ        |         |         |         |
3+20      27.4317    156.08  |Q        |         |         |         |
3+25      28.5155    157.37  |Q        |         |         |         |
3+30      29.6082    158.66  |Q        |         |         |         |
3+35      30.7095    159.90  |Q        |         |         |         |
3+40      31.8191    161.12  |Q        |         |         |         |
3+45      32.9371    162.33  |Q        |         |         |         |
3+50      34.0627    163.43  |Q        |         |         |         |
3+55      35.1957    164.52  |Q        |         |         |         |
4+ 0      36.3363    165.61  |Q        |         |         |         |
4+ 5      37.4845    166.72  |Q        |         |         |         |
4+10      38.6404    167.83  |Q        |         |         |         |
4+15      39.8038    168.93  |Q        |         |         |         |
4+20      40.9744    169.98  |Q        |         |         |         |
4+25      42.1524    171.04  |Q        |         |         |         |
4+30      43.3378    172.11  |Q        |         |         |         |
4+35      44.5306    173.20  |Q        |         |         |         |
4+40      45.7309    174.29  |Q        |         |         |         |
4+45      46.9384    175.32  |Q        |         |         |         |
4+50      48.1529    176.35  |Q        |         |         |         |
4+55      49.3746    177.38  |Q        |         |         |         |
5+ 0      50.6034    178.43  |Q        |         |         |         |
5+ 5      51.8396    179.49  |Q        |         |         |         |
5+10      53.0829    180.54  |Q        |         |         |         |
5+15      54.3333    181.56  |Q        |         |         |         |
5+20      55.5908    182.59  |QV       |         |         |         |
5+25      56.8555    183.63  |QV       |         |         |         |
5+30      58.1274    184.68  |QV       |         |         |         |
5+35      59.4066    185.75  |QV       |         |         |         |
5+40      60.6933    186.82  |QV       |         |         |         |
5+45      61.9874    187.91  |QV       |         |         |         |
5+50      63.2891    189.01  |QV       |         |         |         |
5+55      64.5985    190.12  |QV       |         |         |         |
6+ 0      65.9156    191.25  |QV       |         |         |         |
6+ 5      67.2406    192.39  |QV       |         |         |         |
6+10      68.5734    193.53  |QV       |         |         |         |
6+15      69.9142    194.69  |QV       |         |         |         |
6+20      71.2631    195.86  |QV       |         |         |         |
6+25      72.6202    197.04  |QV       |         |         |         |
6+30      73.9855    198.25  |QV       |         |         |         |
6+35      75.3590    199.43  |QV       |         |         |         |
6+40      76.7405    200.60  |QV       |         |         |         |
6+45      78.1302    201.79  |QV       |         |         |         |
6+50      79.5282    202.98  |QV       |         |         |         |
6+55      80.9345    204.21  |QV       |         |         |         |
7+ 0      82.3494    205.44  |Q V      |         |         |         |
7+ 5      83.7729    206.69  |Q V      |         |         |         |
7+10      85.2051    207.96  |Q V      |         |         |         |
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 7+15      86.6460    209.22  |Q V      |         |         |         |
 7+20      88.0955    210.47  |Q V      |         |         |         |
 7+25      89.5537    211.74  |Q V      |         |         |         |
 7+30      91.0208    213.02  |Q V      |         |         |         |
 7+35      92.4969    214.33  |Q V      |         |         |         |
 7+40      93.9821    215.65  |Q V      |         |         |         |
 7+45      95.4766    217.00  |Q V      |         |         |         |
 7+50      96.9805    218.36  |Q V      |         |         |         |
 7+55      98.4939    219.75  |Q V      |         |         |         |
 8+ 0     100.0170    221.16  |Q V      |         |         |         |
 8+ 5     101.5500    222.59  |Q V      |         |         |         |
 8+10     103.0930    224.04  |Q V      |         |         |         |
 8+15     104.6461    225.52  |Q V      |         |         |         |
 8+20     106.2096    227.02  |Q V      |         |         |         |
 8+25     107.7836    228.54  |Q V      |         |         |         |
 8+30     109.3682    230.09  |Q  V     |         |         |         |
 8+35     110.9638    231.67  |Q  V     |         |         |         |
 8+40     112.5703    233.27  |Q  V     |         |         |         |
 8+45     114.1881    234.90  |Q  V     |         |         |         |
 8+50     115.8172    236.55  | Q V     |         |         |         |
 8+55     117.4580    238.24  | Q V     |         |         |         |
 9+ 0     119.1106    239.96  | Q V     |         |         |         |
 9+ 5     120.7752    241.71  | Q V     |         |         |         |
 9+10     122.4521    243.48  | Q V     |         |         |         |
 9+15     124.1414    245.29  | Q V     |         |         |         |
 9+20     125.8434    247.13  | Q V     |         |         |         |
 9+25     127.5583    249.01  | Q V     |         |         |         |
 9+30     129.2864    250.92  | Q V     |         |         |         |
 9+35     131.0279    252.87  | Q V     |         |         |         |
 9+40     132.7831    254.85  | Q V     |         |         |         |
 9+45     134.5522    256.88  | Q V     |         |         |         |
 9+50     136.3355    258.93  | Q  V    |         |         |         |
 9+55     138.1333    261.04  | Q  V    |         |         |         |
10+ 0     139.9459    263.18  | Q  V    |         |         |         |
10+ 5     141.7735    265.38  | Q  V    |         |         |         |
10+10     143.6165    267.60  | Q  V    |         |         |         |
10+15     145.4753    269.89  | Q  V    |         |         |         |
10+20     147.3500    272.21  | Q  V    |         |         |         |
10+25     149.2412    274.60  | Q  V    |         |         |         |
10+30     151.1490    277.02  | Q  V    |         |         |         |
10+35     153.0740    279.51  | Q  V    |         |         |         |
10+40     155.0164    282.04  | Q  V    |         |         |         |
10+45     156.9767    284.64  | Q  V    |         |         |         |
10+50     158.9553    287.29  | Q  V    |         |         |         |
10+55     160.9526    290.01  | Q  V    |         |         |         |
11+ 0     162.9690    292.78  | Q  V    |         |         |         |
11+ 5     165.0050    295.63  | Q   V   |         |         |         |
11+10     167.0610    298.54  | Q   V   |         |         |         |
11+15     169.1376    301.53  | Q   V   |         |         |         |
11+20     171.2353    304.58  | Q   V   |         |         |         |
11+25     173.3546    307.72  | Q   V   |         |         |         |
11+30     175.4959    310.93  | Q   V   |         |         |         |
11+35     177.6601    314.23  | Q   V   |         |         |         |
11+40     179.8475    317.61  | Q   V   |         |         |         |
11+45     182.0589    321.10  | Q   V   |         |         |         |
11+50     184.2949    324.66  | Q   V   |         |         |         |
11+55     186.5562    328.34  | Q   V   |         |         |         |
12+ 0     188.8434    332.11  | Q   V   |         |         |         |
12+ 5     191.1561    335.80  | Q    V  |         |         |         |
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12+10     193.4932    339.35  | Q    V  |         |         |         |
12+15     195.8542    342.82  | Q    V  |         |         |         |
12+20     198.2383    346.18  | Q    V  |         |         |         |
12+25     200.6453    349.49  | Q    V  |         |         |         |
12+30     203.0739    352.64  |  Q   V  |         |         |         |
12+35     205.5207    355.27  |  Q   V  |         |         |         |
12+40     207.9808    357.21  |  Q   V  |         |         |         |
12+45     210.4522    358.84  |  Q   V  |         |         |         |
12+50     212.9359    360.64  |  Q   V  |         |         |         |
12+55     215.4305    362.22  |  Q   V  |         |         |         |
13+ 0     217.9402    364.41  |  Q   V  |         |         |         |
13+ 5     220.4730    367.76  |  Q    V |         |         |         |
13+10     223.0332    371.75  |  Q    V |         |         |         |
13+15     225.6242    376.22  |  Q    V |         |         |         |
13+20     228.2485    381.05  |  Q    V |         |         |         |
13+25     230.9090    386.30  |  Q    V |         |         |         |
13+30     233.6080    391.89  |  Q    V |         |         |         |
13+35     236.3480    397.85  |  Q    V |         |         |         |
13+40     239.1314    404.15  |  Q    V |         |         |         |
13+45     241.9612    410.89  |  Q    V |         |         |         |
13+50     244.8398    417.97  |  Q    V |         |         |         |
13+55     247.7702    425.49  |  Q     V|         |         |         |
14+ 0     250.7555    433.47  |  Q     V|         |         |         |
14+ 5     253.8115    443.73  |  Q     V|         |         |         |
14+10     256.9564    456.63  |  Q     V|         |         |         |
14+15     260.2083    472.18  |   Q    V|         |         |         |
14+20     263.5836    490.09  |   Q    V|         |         |         |
14+25     267.1007    510.69  |   Q    V|         |         |         |
14+30     270.7812    534.42  |   Q    V|         |         |         |
14+35     274.6741    565.24  |   Q     V         |         |         |
14+40     278.8367    604.41  |    Q    V         |         |         |
14+45     283.3077    649.19  |    Q    V         |         |         |
14+50     288.0933    694.88  |    Q    V         |         |         |
14+55     293.2299    745.82  |     Q   V         |         |         |
15+ 0     298.6989    794.11  |     Q   V         |         |         |
15+ 5     304.4551    835.79  |      Q  |V        |         |         |
15+10     310.4817    875.06  |      Q  |V        |         |         |
15+15     316.7807    914.62  |      Q  |V        |         |         |
15+20     323.3584    955.08  |       Q |V        |         |         |
15+25     330.2112    995.02  |       Q | V       |         |         |
15+30     337.3338   1034.20  |       Q | V       |         |         |
15+35     344.7341   1074.51  |        Q| V       |         |         |
15+40     352.4229   1116.42  |        Q| V       |         |         |
15+45     360.4256   1161.99  |        Q|  V      |         |         |
15+50     368.7782   1212.80  |         Q  V      |         |         |
15+55     377.5386   1272.00  |         Q  V      |         |         |
16+ 0     386.8249   1348.37  |         |Q  V     |         |         |
16+ 5     397.5826   1562.02  |         |  QV     |         |         |
16+10     410.0635   1812.22  |         |    Q    |         |         |
16+15     424.1736   2048.79  |         |    V Q  |         |         |
16+20     439.9208   2286.50  |         |     V  Q|         |         |
16+25     457.5836   2564.64  |         |     V   |Q        |         |
16+30     477.7208   2923.92  |         |      V  |   Q     |         |
16+35     502.1407   3545.76  |         |       V |         Q         |
16+40     531.0284   4194.50  |         |        V|         |    Q    |
16+45     562.3965   4554.65  |         |         V         |       Q |
16+50     593.6063   4531.66  |         |         |V        |       Q |
16+55     625.7181   4662.63  |         |         | V       |        Q|
17+ 0     654.5689   4189.13  |         |         |   V     |    Q    |
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17+ 5     678.0839   3414.38  |         |         |   V    Q|         |
17+10     698.5247   2968.00  |         |         |    Q    |         |
17+15     717.1521   2704.70  |         |         |  Q  V   |         |
17+20     734.3834   2501.99  |         |         |Q    V   |         |
17+25     750.3513   2318.55  |         |        Q|      V  |         |
17+30     765.2441   2162.43  |         |       Q |       V |         |
17+35     779.2301   2030.76  |         |      Q  |       V |         |
17+40     792.2826   1895.23  |         |     Q   |        V|         |
17+45     804.3328   1749.69  |         |   Q     |        V|         |
17+50     815.7048   1651.21  |         |   Q     |        V|         |
17+55     826.3124   1540.24  |         |  Q      |         V         |
18+ 0     836.0047   1407.32  |         |Q        |         V         |
18+ 5     845.2669   1344.86  |         |Q        |         |V        |
18+10     854.0041   1268.65  |         Q         |         |V        |
18+15     862.2221   1193.25  |         Q         |         |V        |
18+20     870.1492   1151.02  |        Q|         |         |V        |
18+25     877.6527   1089.50  |        Q|         |         | V       |
18+30     884.8270   1041.71  |       Q |         |         | V       |
18+35     891.7523   1005.56  |       Q |         |         | V       |
18+40     898.2818    948.07  |       Q |         |         | V       |
18+45     904.5668    912.59  |      Q  |         |         |  V      |
18+50     910.6035    876.53  |      Q  |         |         |  V      |
18+55     916.2475    819.50  |     Q   |         |         |  V      |
19+ 0     921.7133    793.63  |     Q   |         |         |  V      |
19+ 5     926.9871    765.75  |     Q   |         |         |   V     |
19+10     932.0372    733.27  |     Q   |         |         |   V     |
19+15     936.9486    713.13  |     Q   |         |         |   V     |
19+20     941.6600    684.10  |    Q    |         |         |   V     |
19+25     946.1858    657.14  |    Q    |         |         |   V     |
19+30     950.5847    638.72  |    Q    |         |         |   V     |
19+35     954.7905    610.68  |    Q    |         |         |    V    |
19+40     958.8489    589.28  |    Q    |         |         |    V    |
19+45     962.7661    568.78  |   Q     |         |         |    V    |
19+50     966.4289    531.83  |   Q     |         |         |    V    |
19+55     969.9729    514.59  |   Q     |         |         |    V    |
20+ 0     973.4379    503.12  |   Q     |         |         |    V    |
20+ 5     976.8287    492.35  |   Q     |         |         |    V    |
20+10     980.1407    480.90  |   Q     |         |         |    V    |
20+15     983.3350    463.80  |  Q      |         |         |     V   |
20+20     986.4007    445.15  |  Q      |         |         |     V   |
20+25     989.4025    435.86  |  Q      |         |         |     V   |
20+30     992.3449    427.23  |  Q      |         |         |     V   |
20+35     995.2254    418.25  |  Q      |         |         |     V   |
20+40     998.0313    407.41  |  Q      |         |         |     V   |
20+45    1000.6954    386.82  |  Q      |         |         |     V   |
20+50    1003.2803    375.33  |  Q      |         |         |     V   |
20+55    1005.8172    368.35  |  Q      |         |         |     V   |
21+ 0    1008.3076    361.61  |  Q      |         |         |      V  |
21+ 5    1010.7472    354.22  |  Q      |         |         |      V  |
21+10    1013.1130    343.53  | Q       |         |         |      V  |
21+15    1015.3814    329.37  | Q       |         |         |      V  |
21+20    1017.6067    323.11  | Q       |         |         |      V  |
21+25    1019.7952    317.77  | Q       |         |         |      V  |
21+30    1021.9488    312.69  | Q       |         |         |      V  |
21+35    1024.0675    307.63  | Q       |         |         |      V  |
21+40    1026.1515    302.60  | Q       |         |         |      V  |
21+45    1028.2033    297.93  | Q       |         |         |      V  |
21+50    1030.2244    293.45  | Q       |         |         |      V  |
21+55    1032.2158    289.16  | Q       |         |         |      V  |
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22+ 0    1034.1779    284.90  | Q       |         |         |      V  |
22+ 5    1036.1081    280.27  | Q       |         |         |       V |
22+10    1038.0012    274.87  | Q       |         |         |       V |
22+15    1039.8658    270.73  | Q       |         |         |       V |
22+20    1041.7026    266.71  | Q       |         |         |       V |
22+25    1043.5089    262.28  | Q       |         |         |       V |
22+30    1045.2835    257.68  | Q       |         |         |       V |
22+35    1046.9728    245.28  | Q       |         |         |       V |
22+40    1048.6045    236.93  | Q       |         |         |       V |
22+45    1050.2109    233.24  |Q        |         |         |       V |
22+50    1051.7941    229.88  |Q        |         |         |       V |
22+55    1053.3538    226.47  |Q        |         |         |       V |
23+ 0    1054.8894    222.97  |Q        |         |         |       V |
23+ 5    1056.3991    219.20  |Q        |         |         |       V |
23+10    1057.8785    214.82  |Q        |         |         |       V |
23+15    1059.2943    205.57  |Q        |         |         |       V |
23+20    1060.6512    197.02  |Q        |         |         |       V |
23+25    1061.9869    193.95  |Q        |         |         |       V |
23+30    1063.3041    191.26  |Q        |         |         |        V|
23+35    1064.6043    188.78  |Q        |         |         |        V|
23+40    1065.8880    186.40  |Q        |         |         |        V|
23+45    1067.1562    184.14  |Q        |         |         |        V|
23+50    1068.4095    181.98  |Q        |         |         |        V|
23+55    1069.6486    179.91  |Q        |         |         |        V|
24+ 0    1070.8738    177.91  |Q        |         |         |        V|
24+ 5    1072.0811    175.29  |Q        |         |         |        V|
24+10    1073.2650    171.91  |Q        |         |         |        V|
24+15    1074.4214    167.91  |Q        |         |         |        V|
24+20    1075.5464    163.36  |Q        |         |         |        V|
24+25    1076.6357    158.17  |Q        |         |         |        V|
24+30    1077.6835    152.14  |Q        |         |         |        V|
24+35    1078.6741    143.84  |Q        |         |         |        V|
24+40    1079.5889    132.82  |Q        |         |         |        V|
24+45    1080.4174    120.30  |Q        |         |         |        V|
24+50    1081.1617    108.07  Q         |         |         |        V|
24+55    1081.8134     94.63  Q         |         |         |        V|
25+ 0    1082.3849     82.97  Q         |         |         |        V|
25+ 5    1082.8999     74.78  Q         |         |         |        V|
25+10    1083.3706     68.35  Q         |         |         |        V|
25+15    1083.8033     62.83  Q         |         |         |        V|
25+20    1084.2027     57.98  Q         |         |         |        V|
25+25    1084.5725     53.70  Q         |         |         |        V|
25+30    1084.9158     49.85  Q         |         |         |        V|
25+35    1085.2346     46.30  Q         |         |         |        V|
25+40    1085.5311     43.04  Q         |         |         |        V|
25+45    1085.8077     40.17  Q         |         |         |        V|
25+50    1086.0654     37.42  Q         |         |         |        V|
25+55    1086.3054     34.85  Q         |         |         |        V|
26+ 0    1086.5304     32.66  Q         |         |         |        V|
26+ 5    1086.7405     30.52  Q         |         |         |        V|
26+10    1086.9371     28.54  Q         |         |         |        V|
26+15    1087.1213     26.75  Q         |         |         |        V|
26+20    1087.2935     24.99  Q         |         |         |        V|
26+25    1087.4545     23.39  Q         |         |         |        V|
26+30    1087.6051     21.87  Q         |         |         |        V|
26+35    1087.7456     20.39  Q         |         |         |        V|
26+40    1087.8769     19.08  Q         |         |         |        V|
26+45    1087.9997     17.82  Q         |         |         |        V|
26+50    1088.1141     16.62  Q         |         |         |        V|
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   26+55    1088.2217     15.62  Q         |         |         |        V|
   27+ 0    1088.3226     14.64  Q         |         |         |        V|
   27+ 5    1088.4170     13.72  Q         |         |         |        V|
   27+10    1088.5057     12.87  Q         |         |         |        V|
   27+15    1088.5886     12.04  Q         |         |         |        V|
   27+20    1088.6662     11.27  Q         |         |         |        V|
   27+25    1088.7389     10.55  Q         |         |         |        V|
   27+30    1088.8067      9.85  Q         |         |         |        V|
   27+35    1088.8702      9.22  Q         |         |         |        V|
   27+40    1088.9295      8.62  Q         |         |         |        V|
   27+45    1088.9849      8.04  Q         |         |         |        V|
   27+50    1089.0371      7.59  Q         |         |         |        V|
   27+55    1089.0865      7.16  Q         |         |         |        V|
   28+ 0    1089.1329      6.75  Q         |         |         |        V|
   28+ 5    1089.1765      6.33  Q         |         |         |        V|
   28+10    1089.2173      5.92  Q         |         |         |        V|
   28+15    1089.2555      5.54  Q         |         |         |        V|
   28+20    1089.2914      5.22  Q         |         |         |        V|
   28+25    1089.3252      4.90  Q         |         |         |        V|
   28+30    1089.3567      4.58  Q         |         |         |        V|
   28+35    1089.3861      4.27  Q         |         |         |        V|
   28+40    1089.4134      3.96  Q         |         |         |        V|
   28+45    1089.4390      3.72  Q         |         |         |        V|
   28+50    1089.4631      3.50  Q         |         |         |        V|
   28+55    1089.4857      3.29  Q         |         |         |        V|
   29+ 0    1089.5069      3.07  Q         |         |         |        V|
   29+ 5    1089.5266      2.86  Q         |         |         |        V|
   29+10    1089.5449      2.67  Q         |         |         |        V|
   29+15    1089.5623      2.52  Q         |         |         |        V|
   29+20    1089.5786      2.37  Q         |         |         |        V|
   29+25    1089.5939      2.23  Q         |         |         |        V|
   29+30    1089.6083      2.08  Q         |         |         |        V|
   29+35    1089.6216      1.94  Q         |         |         |        V|
   29+40    1089.6340      1.80  Q         |         |         |        V|
   29+45    1089.6454      1.66  Q         |         |         |        V|
   29+50    1089.6559      1.52  Q         |         |         |        V|
   29+55    1089.6655      1.39  Q         |         |         |        V|
   30+ 0    1089.6741      1.25  Q         |         |         |        V|
   30+ 5    1089.6818      1.12  Q         |         |         |        V|
   30+10    1089.6886      0.99  Q         |         |         |        V|
   30+15    1089.6947      0.87  Q         |         |         |        V|
   30+20    1089.6998      0.75  Q         |         |         |        V|
   30+25    1089.7042      0.63  Q         |         |         |        V|
   30+30    1089.7077      0.51  Q         |         |         |        V|
   30+35    1089.7106      0.42  Q         |         |         |        V|
   30+40    1089.7131      0.37  Q         |         |         |        V|
   30+45    1089.7152      0.31  Q         |         |         |        V|
   30+50    1089.7170      0.25  Q         |         |         |        V|
   30+55    1089.7183      0.20  Q         |         |         |        V|
   31+ 0    1089.7193      0.14  Q         |         |         |        V|
   31+ 5    1089.7198      0.08  Q         |         |         |        V|
   31+10    1089.7200      0.03  Q         |         |         |         V
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U n i t H y d r o g r a p h A n a l y s i s

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Study date 08/10/17

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San Bernardino County Synthetic Unit Hydrology Method
Manual date - August 1986

Program License Serial Number 6320

164309 - NRG COOLWATER SOLAR FACILITY - DAGGETT, CA
OFFSITE AREA "J"
100-YEAR, 24-HOUR STORM EVENT
BY: JDN, DATE: 08-10-17

Storm Event Year = 100

Antecedent Moisture Condition = 3

English (in-lb) Input Units Used

English Rainfall Data (Inches) Input Values Used

English Units used in output format

Area averaged rainfall intensity isohyetal data:

Sub-Area (Ac.)	Duration (hours)	Isohyetal (In)
Rainfall data for year 100		
603.09	1	1.42
Rainfall data for year 100		
603.09	6	2.33
Rainfall data for year 100		
603.09	24	3.60

++

******** Area-averaged max loss rate, Fm ********

SCS curve No.(AMCII)	SCS curve NO.(AMC 3)	Area (Ac.)	Area Fraction	Fp(Fig C6) (In/Hr)	Ap (dec.)	Fm (In/Hr)
87.2	97.4	603.09	1.000	0.051	1.000	0.051

Area-averaged adjusted loss rate Fm (In/Hr) = 0.051

********* Area-Averaged low loss rate fraction, Yb **********

Area (Ac.)	Area Fract	SCS CN (AMC2)	SCS CN (AMC3)	S	Pervious Yield Fr
603.09	1.000	87.2	97.4	0.26	0.918

Area-averaged catchment yield fraction, Y = 0.918
Area-averaged low loss fraction, Yb = 0.082
++
Watercourse length = 16135.00(Ft.)
Length from concentration point to centroid = 10608.00(Ft.)
Elevation difference along watercourse = 2030.00(Ft.)
Mannings friction factor along watercourse = 0.035
Watershed area = 603.09(Ac.)
Catchment Lag time = 0.487 hours
Unit interval = 5.000 minutes
Unit interval percentage of lag time = 17.1118
Hydrograph baseflow = 0.00(CFS)
Average maximum watershed loss rate(Fm) = 0.051(In/Hr)
Average low loss rate fraction (Yb) = 0.082 (decimal)
VALLEY DEVELOPED S-Graph proportion = 0.000
VALLEY UNDEVELOPED S-Graph proportion = 0.000
FOOTHILL S-Graph proportion = 0.750
MOUNTAIN S-Graph proportion = 0.000
DESERT S-Graph proportion = 0.250

Computed peak 5-minute rainfall = 0.673(In)
Computed peak 30-minute rainfall = 1.152(In)
Specified peak 1-hour rainfall = 1.418(In)
Computed peak 3-hour rainfall = 1.921(In)
Specified peak 6-hour rainfall = 2.326(In)
Specified peak 24-hour rainfall = 3.601(In)

Rainfall depth area reduction factors:
Using a total area of 603.09(Ac.) (Ref: fig. E-4)

5-minute factor = 0.972 Adjusted rainfall = 0.654(In)
30-minute factor = 0.972 Adjusted rainfall = 1.119(In)
1-hour factor = 0.972 Adjusted rainfall = 1.378(In)
3-hour factor = 0.996 Adjusted rainfall = 1.914(In)
6-hour factor = 0.998 Adjusted rainfall = 2.322(In)
24-hour factor = 0.999 Adjusted rainfall = 3.598(In)

U n i t H y d r o g r a p h
++
Interval Number	'S' Graph Mean values	Unit Hydrograph ((CFS))
	(K = 7293.62 (CFS))	
1	1.020	74.370
2	3.879	208.539
3	8.206	315.613
4	15.001	495.585
5	25.779	786.102
6	42.430	1214.465

7	56.734	1043.317
8	64.222	546.089
9	69.726	401.495
10	74.006	312.113
11	77.681	268.061
12	80.764	224.870
13	83.335	187.492
14	85.599	165.127
15	87.578	144.360
16	89.287	124.687
17	90.812	111.193
18	92.150	97.569
19	93.269	81.627
20	94.234	70.398
21	95.069	60.914
22	95.801	53.401
23	96.421	45.159
24	96.920	36.411
25	97.237	23.118
26	97.536	21.841
27	97.821	20.764
28	98.063	17.666
29	98.303	17.473
30	98.516	15.572
31	98.672	11.383
32	98.826	11.233
33	98.977	11.003
34	99.123	10.615
35	99.268	10.609
36	99.395	9.240
37	99.497	7.495
38	99.600	7.488
39	99.690	6.525
40	99.767	5.616
41	99.854	6.371
42	99.891	2.689
43	99.918	1.950
44	99.944	1.950
45	99.971	1.950
46	100.000	0.975

Peak Unit Number	Adjusted mass rainfall (In)	Unit rainfall (In)
1	0.6538	0.6538
2	0.8050	0.1511
3	0.9091	0.1041
4	0.9910	0.0819
5	1.0596	0.0686
6	1.1192	0.0596
7	1.1722	0.0530
8	1.2201	0.0479
9	1.2640	0.0439
10	1.3046	0.0406
11	1.3424	0.0378
12	1.3779	0.0355
13	1.4113	0.0334
14	1.4429	0.0316
15	1.4730	0.0301
16	1.5017	0.0287

17	1.5292	0.0275
18	1.5555	0.0264
19	1.5809	0.0254
20	1.6053	0.0244
21	1.6289	0.0236
22	1.6517	0.0228
23	1.6739	0.0221
24	1.6953	0.0214
25	1.7161	0.0208
26	1.7364	0.0202
27	1.7561	0.0197
28	1.7753	0.0192
29	1.7940	0.0187
30	1.8123	0.0183
31	1.8301	0.0179
32	1.8476	0.0175
33	1.8647	0.0171
34	1.8814	0.0167
35	1.8978	0.0164
36	1.9138	0.0161
37	1.9285	0.0147
38	1.9429	0.0144
39	1.9570	0.0141
40	1.9709	0.0139
41	1.9845	0.0136
42	1.9978	0.0134
43	2.0110	0.0131
44	2.0239	0.0129
45	2.0366	0.0127
46	2.0491	0.0125
47	2.0614	0.0123
48	2.0736	0.0121
49	2.0855	0.0119
50	2.0973	0.0118
51	2.1089	0.0116
52	2.1203	0.0114
53	2.1316	0.0113
54	2.1428	0.0111
55	2.1537	0.0110
56	2.1646	0.0108
57	2.1753	0.0107
58	2.1859	0.0106
59	2.1963	0.0104
60	2.2066	0.0103
61	2.2168	0.0102
62	2.2269	0.0101
63	2.2368	0.0100
64	2.2467	0.0098
65	2.2564	0.0097
66	2.2660	0.0096
67	2.2755	0.0095
68	2.2849	0.0094
69	2.2942	0.0093
70	2.3035	0.0092
71	2.3126	0.0091
72	2.3216	0.0090
73	2.3318	0.0101
74	2.3418	0.0100
75	2.3518	0.0100

76	2.3616	0.0099
77	2.3714	0.0098
78	2.3811	0.0097
79	2.3907	0.0096
80	2.4002	0.0095
81	2.4097	0.0094
82	2.4190	0.0094
83	2.4283	0.0093
84	2.4375	0.0092
85	2.4467	0.0091
86	2.4557	0.0091
87	2.4647	0.0090
88	2.4736	0.0089
89	2.4825	0.0089
90	2.4913	0.0088
91	2.5000	0.0087
92	2.5086	0.0087
93	2.5172	0.0086
94	2.5258	0.0085
95	2.5342	0.0085
96	2.5426	0.0084
97	2.5510	0.0083
98	2.5593	0.0083
99	2.5675	0.0082
100	2.5756	0.0082
101	2.5838	0.0081
102	2.5918	0.0081
103	2.5998	0.0080
104	2.6078	0.0080
105	2.6157	0.0079
106	2.6235	0.0078
107	2.6313	0.0078
108	2.6391	0.0077
109	2.6468	0.0077
110	2.6544	0.0077
111	2.6620	0.0076
112	2.6696	0.0076
113	2.6771	0.0075
114	2.6846	0.0075
115	2.6920	0.0074
116	2.6994	0.0074
117	2.7067	0.0073
118	2.7140	0.0073
119	2.7212	0.0072
120	2.7284	0.0072
121	2.7356	0.0072
122	2.7427	0.0071
123	2.7498	0.0071
124	2.7569	0.0070
125	2.7639	0.0070
126	2.7708	0.0070
127	2.7778	0.0069
128	2.7847	0.0069
129	2.7915	0.0069
130	2.7984	0.0068
131	2.8051	0.0068
132	2.8119	0.0068
133	2.8186	0.0067
134	2.8253	0.0067

135	2.8319	0.0066
136	2.8385	0.0066
137	2.8451	0.0066
138	2.8517	0.0065
139	2.8582	0.0065
140	2.8647	0.0065
141	2.8711	0.0065
142	2.8776	0.0064
143	2.8839	0.0064
144	2.8903	0.0064
145	2.8966	0.0063
146	2.9029	0.0063
147	2.9092	0.0063
148	2.9154	0.0062
149	2.9217	0.0062
150	2.9278	0.0062
151	2.9340	0.0062
152	2.9401	0.0061
153	2.9462	0.0061
154	2.9523	0.0061
155	2.9583	0.0060
156	2.9644	0.0060
157	2.9704	0.0060
158	2.9763	0.0060
159	2.9823	0.0059
160	2.9882	0.0059
161	2.9941	0.0059
162	2.9999	0.0059
163	3.0058	0.0058
164	3.0116	0.0058
165	3.0174	0.0058
166	3.0232	0.0058
167	3.0289	0.0057
168	3.0346	0.0057
169	3.0403	0.0057
170	3.0460	0.0057
171	3.0516	0.0057
172	3.0573	0.0056
173	3.0629	0.0056
174	3.0685	0.0056
175	3.0740	0.0056
176	3.0796	0.0055
177	3.0851	0.0055
178	3.0906	0.0055
179	3.0961	0.0055
180	3.1015	0.0055
181	3.1070	0.0054
182	3.1124	0.0054
183	3.1178	0.0054
184	3.1231	0.0054
185	3.1285	0.0054
186	3.1338	0.0053
187	3.1392	0.0053
188	3.1445	0.0053
189	3.1497	0.0053
190	3.1550	0.0053
191	3.1602	0.0052
192	3.1654	0.0052
193	3.1706	0.0052

194	3.1758	0.0052
195	3.1810	0.0052
196	3.1861	0.0051
197	3.1913	0.0051
198	3.1964	0.0051
199	3.2015	0.0051
200	3.2066	0.0051
201	3.2116	0.0051
202	3.2167	0.0050
203	3.2217	0.0050
204	3.2267	0.0050
205	3.2317	0.0050
206	3.2367	0.0050
207	3.2416	0.0050
208	3.2466	0.0049
209	3.2515	0.0049
210	3.2564	0.0049
211	3.2613	0.0049
212	3.2662	0.0049
213	3.2710	0.0049
214	3.2759	0.0048
215	3.2807	0.0048
216	3.2855	0.0048
217	3.2903	0.0048
218	3.2951	0.0048
219	3.2999	0.0048
220	3.3046	0.0048
221	3.3094	0.0047
222	3.3141	0.0047
223	3.3188	0.0047
224	3.3235	0.0047
225	3.3282	0.0047
226	3.3329	0.0047
227	3.3375	0.0047
228	3.3421	0.0046
229	3.3468	0.0046
230	3.3514	0.0046
231	3.3560	0.0046
232	3.3606	0.0046
233	3.3651	0.0046
234	3.3697	0.0046
235	3.3742	0.0045
236	3.3788	0.0045
237	3.3833	0.0045
238	3.3878	0.0045
239	3.3923	0.0045
240	3.3968	0.0045
241	3.4012	0.0045
242	3.4057	0.0045
243	3.4101	0.0044
244	3.4146	0.0044
245	3.4190	0.0044
246	3.4234	0.0044
247	3.4278	0.0044
248	3.4322	0.0044
249	3.4365	0.0044
250	3.4409	0.0044
251	3.4452	0.0043
252	3.4496	0.0043

253	3.4539	0.0043
254	3.4582	0.0043
255	3.4625	0.0043
256	3.4668	0.0043
257	3.4711	0.0043
258	3.4753	0.0043
259	3.4796	0.0043
260	3.4838	0.0042
261	3.4880	0.0042
262	3.4923	0.0042
263	3.4965	0.0042
264	3.5007	0.0042
265	3.5049	0.0042
266	3.5090	0.0042
267	3.5132	0.0042
268	3.5173	0.0042
269	3.5215	0.0041
270	3.5256	0.0041
271	3.5297	0.0041
272	3.5339	0.0041
273	3.5380	0.0041
274	3.5421	0.0041
275	3.5461	0.0041
276	3.5502	0.0041
277	3.5543	0.0041
278	3.5583	0.0041
279	3.5624	0.0040
280	3.5664	0.0040
281	3.5704	0.0040
282	3.5744	0.0040
283	3.5784	0.0040
284	3.5824	0.0040
285	3.5864	0.0040
286	3.5904	0.0040
287	3.5943	0.0040
288	3.5983	0.0040

Unit Period (number)	Unit Rainfall (In)	Unit Soil-Loss (In)	Effective Rainfall (In)
1	0.0040	0.0003	0.0036
2	0.0040	0.0003	0.0036
3	0.0040	0.0003	0.0037
4	0.0040	0.0003	0.0037
5	0.0040	0.0003	0.0037
6	0.0040	0.0003	0.0037
7	0.0040	0.0003	0.0037
8	0.0041	0.0003	0.0037
9	0.0041	0.0003	0.0037
10	0.0041	0.0003	0.0037
11	0.0041	0.0003	0.0038
12	0.0041	0.0003	0.0038
13	0.0041	0.0003	0.0038
14	0.0041	0.0003	0.0038
15	0.0042	0.0003	0.0038
16	0.0042	0.0003	0.0038
17	0.0042	0.0003	0.0039
18	0.0042	0.0003	0.0039

19	0.0042	0.0003	0.0039
20	0.0042	0.0003	0.0039
21	0.0043	0.0004	0.0039
22	0.0043	0.0004	0.0039
23	0.0043	0.0004	0.0039
24	0.0043	0.0004	0.0040
25	0.0043	0.0004	0.0040
26	0.0043	0.0004	0.0040
27	0.0044	0.0004	0.0040
28	0.0044	0.0004	0.0040
29	0.0044	0.0004	0.0040
30	0.0044	0.0004	0.0041
31	0.0044	0.0004	0.0041
32	0.0045	0.0004	0.0041
33	0.0045	0.0004	0.0041
34	0.0045	0.0004	0.0041
35	0.0045	0.0004	0.0041
36	0.0045	0.0004	0.0042
37	0.0046	0.0004	0.0042
38	0.0046	0.0004	0.0042
39	0.0046	0.0004	0.0042
40	0.0046	0.0004	0.0042
41	0.0046	0.0004	0.0043
42	0.0047	0.0004	0.0043
43	0.0047	0.0004	0.0043
44	0.0047	0.0004	0.0043
45	0.0047	0.0004	0.0043
46	0.0047	0.0004	0.0044
47	0.0048	0.0004	0.0044
48	0.0048	0.0004	0.0044
49	0.0048	0.0004	0.0044
50	0.0048	0.0004	0.0044
51	0.0049	0.0004	0.0045
52	0.0049	0.0004	0.0045
53	0.0049	0.0004	0.0045
54	0.0049	0.0004	0.0045
55	0.0050	0.0004	0.0045
56	0.0050	0.0004	0.0046
57	0.0050	0.0004	0.0046
58	0.0050	0.0004	0.0046
59	0.0051	0.0004	0.0046
60	0.0051	0.0004	0.0047
61	0.0051	0.0004	0.0047
62	0.0051	0.0004	0.0047
63	0.0052	0.0004	0.0047
64	0.0052	0.0004	0.0048
65	0.0052	0.0004	0.0048
66	0.0052	0.0004	0.0048
67	0.0053	0.0004	0.0048
68	0.0053	0.0004	0.0049
69	0.0053	0.0004	0.0049
70	0.0054	0.0004	0.0049
71	0.0054	0.0004	0.0050
72	0.0054	0.0004	0.0050
73	0.0055	0.0004	0.0050
74	0.0055	0.0005	0.0050
75	0.0055	0.0005	0.0051
76	0.0055	0.0005	0.0051
77	0.0056	0.0005	0.0051

78	0.0056	0.0005	0.0051
79	0.0057	0.0005	0.0052
80	0.0057	0.0005	0.0052
81	0.0057	0.0005	0.0052
82	0.0057	0.0005	0.0053
83	0.0058	0.0005	0.0053
84	0.0058	0.0005	0.0053
85	0.0059	0.0005	0.0054
86	0.0059	0.0005	0.0054
87	0.0059	0.0005	0.0055
88	0.0060	0.0005	0.0055
89	0.0060	0.0005	0.0055
90	0.0060	0.0005	0.0055
91	0.0061	0.0005	0.0056
92	0.0061	0.0005	0.0056
93	0.0062	0.0005	0.0057
94	0.0062	0.0005	0.0057
95	0.0063	0.0005	0.0058
96	0.0063	0.0005	0.0058
97	0.0064	0.0005	0.0058
98	0.0064	0.0005	0.0059
99	0.0065	0.0005	0.0059
100	0.0065	0.0005	0.0059
101	0.0065	0.0005	0.0060
102	0.0066	0.0005	0.0060
103	0.0066	0.0005	0.0061
104	0.0067	0.0006	0.0061
105	0.0068	0.0006	0.0062
106	0.0068	0.0006	0.0062
107	0.0069	0.0006	0.0063
108	0.0069	0.0006	0.0063
109	0.0070	0.0006	0.0064
110	0.0070	0.0006	0.0064
111	0.0071	0.0006	0.0065
112	0.0071	0.0006	0.0065
113	0.0072	0.0006	0.0066
114	0.0072	0.0006	0.0067
115	0.0073	0.0006	0.0067
116	0.0074	0.0006	0.0068
117	0.0075	0.0006	0.0069
118	0.0075	0.0006	0.0069
119	0.0076	0.0006	0.0070
120	0.0077	0.0006	0.0070
121	0.0077	0.0006	0.0071
122	0.0078	0.0006	0.0072
123	0.0079	0.0007	0.0072
124	0.0080	0.0007	0.0073
125	0.0081	0.0007	0.0074
126	0.0081	0.0007	0.0074
127	0.0082	0.0007	0.0075
128	0.0083	0.0007	0.0076
129	0.0084	0.0007	0.0077
130	0.0085	0.0007	0.0078
131	0.0086	0.0007	0.0079
132	0.0087	0.0007	0.0079
133	0.0088	0.0007	0.0081
134	0.0089	0.0007	0.0081
135	0.0090	0.0007	0.0082
136	0.0091	0.0007	0.0083

137	0.0092	0.0008	0.0085
138	0.0093	0.0008	0.0085
139	0.0094	0.0008	0.0087
140	0.0095	0.0008	0.0087
141	0.0097	0.0008	0.0089
142	0.0098	0.0008	0.0090
143	0.0100	0.0008	0.0091
144	0.0100	0.0008	0.0092
145	0.0090	0.0007	0.0083
146	0.0091	0.0008	0.0084
147	0.0093	0.0008	0.0085
148	0.0094	0.0008	0.0086
149	0.0096	0.0008	0.0088
150	0.0097	0.0008	0.0089
151	0.0100	0.0008	0.0091
152	0.0101	0.0008	0.0092
153	0.0103	0.0008	0.0095
154	0.0104	0.0009	0.0096
155	0.0107	0.0009	0.0098
156	0.0108	0.0009	0.0099
157	0.0111	0.0009	0.0102
158	0.0113	0.0009	0.0104
159	0.0116	0.0010	0.0106
160	0.0118	0.0010	0.0108
161	0.0121	0.0010	0.0111
162	0.0123	0.0010	0.0113
163	0.0127	0.0010	0.0117
164	0.0129	0.0011	0.0119
165	0.0134	0.0011	0.0123
166	0.0136	0.0011	0.0125
167	0.0141	0.0012	0.0130
168	0.0144	0.0012	0.0132
169	0.0161	0.0013	0.0147
170	0.0164	0.0013	0.0150
171	0.0171	0.0014	0.0157
172	0.0175	0.0014	0.0160
173	0.0183	0.0015	0.0168
174	0.0187	0.0015	0.0172
175	0.0197	0.0016	0.0181
176	0.0202	0.0017	0.0186
177	0.0214	0.0018	0.0197
178	0.0221	0.0018	0.0203
179	0.0236	0.0019	0.0217
180	0.0244	0.0020	0.0224
181	0.0264	0.0022	0.0242
182	0.0275	0.0023	0.0252
183	0.0301	0.0025	0.0276
184	0.0316	0.0026	0.0290
185	0.0355	0.0029	0.0326
186	0.0378	0.0031	0.0347
187	0.0439	0.0036	0.0403
188	0.0479	0.0039	0.0440
189	0.0596	0.0042	0.0554
190	0.0686	0.0042	0.0644
191	0.1041	0.0042	0.0999
192	0.1511	0.0042	0.1469
193	0.6538	0.0042	0.6496
194	0.0819	0.0042	0.0777
195	0.0530	0.0042	0.0488

196	0.0406	0.0033	0.0372
197	0.0334	0.0028	0.0306
198	0.0287	0.0024	0.0263
199	0.0254	0.0021	0.0233
200	0.0228	0.0019	0.0209
201	0.0208	0.0017	0.0191
202	0.0192	0.0016	0.0176
203	0.0179	0.0015	0.0164
204	0.0167	0.0014	0.0153
205	0.0147	0.0012	0.0135
206	0.0139	0.0011	0.0127
207	0.0131	0.0011	0.0121
208	0.0125	0.0010	0.0115
209	0.0119	0.0010	0.0110
210	0.0114	0.0009	0.0105
211	0.0110	0.0009	0.0101
212	0.0106	0.0009	0.0097
213	0.0102	0.0008	0.0093
214	0.0098	0.0008	0.0090
215	0.0095	0.0008	0.0087
216	0.0092	0.0008	0.0085
217	0.0101	0.0008	0.0093
218	0.0099	0.0008	0.0091
219	0.0096	0.0008	0.0088
220	0.0094	0.0008	0.0086
221	0.0091	0.0008	0.0084
222	0.0089	0.0007	0.0082
223	0.0087	0.0007	0.0080
224	0.0085	0.0007	0.0078
225	0.0083	0.0007	0.0077
226	0.0082	0.0007	0.0075
227	0.0080	0.0007	0.0073
228	0.0078	0.0006	0.0072
229	0.0077	0.0006	0.0071
230	0.0076	0.0006	0.0069
231	0.0074	0.0006	0.0068
232	0.0073	0.0006	0.0067
233	0.0072	0.0006	0.0066
234	0.0070	0.0006	0.0065
235	0.0069	0.0006	0.0064
236	0.0068	0.0006	0.0063
237	0.0067	0.0006	0.0062
238	0.0066	0.0005	0.0061
239	0.0065	0.0005	0.0060
240	0.0064	0.0005	0.0059
241	0.0063	0.0005	0.0058
242	0.0062	0.0005	0.0057
243	0.0062	0.0005	0.0056
244	0.0061	0.0005	0.0056
245	0.0060	0.0005	0.0055
246	0.0059	0.0005	0.0054
247	0.0058	0.0005	0.0054
248	0.0058	0.0005	0.0053
249	0.0057	0.0005	0.0052
250	0.0056	0.0005	0.0052
251	0.0056	0.0005	0.0051
252	0.0055	0.0005	0.0050
253	0.0054	0.0004	0.0050
254	0.0054	0.0004	0.0049

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      255              0.0053          0.0004              0.0049
      256              0.0053          0.0004              0.0048
      257              0.0052          0.0004              0.0048
      258              0.0051          0.0004              0.0047
      259              0.0051          0.0004              0.0047
      260              0.0050          0.0004              0.0046
      261              0.0050          0.0004              0.0046
      262              0.0049          0.0004              0.0045
      263              0.0049          0.0004              0.0045
      264              0.0048          0.0004              0.0044
      265              0.0048          0.0004              0.0044
      266              0.0048          0.0004              0.0044
      267              0.0047          0.0004              0.0043
      268              0.0047          0.0004              0.0043
      269              0.0046          0.0004              0.0042
      270              0.0046          0.0004              0.0042
      271              0.0045          0.0004              0.0042
      272              0.0045          0.0004              0.0041
      273              0.0045          0.0004              0.0041
      274              0.0044          0.0004              0.0041
      275              0.0044          0.0004              0.0040
      276              0.0044          0.0004              0.0040
      277              0.0043          0.0004              0.0040
      278              0.0043          0.0004              0.0039
      279              0.0043          0.0004              0.0039
      280              0.0042          0.0003              0.0039
      281              0.0042          0.0003              0.0038
      282              0.0042          0.0003              0.0038
      283              0.0041          0.0003              0.0038
      284              0.0041          0.0003              0.0038
      285              0.0041          0.0003              0.0037
      286              0.0040          0.0003              0.0037
      287              0.0040          0.0003              0.0037
      288              0.0040          0.0003              0.0036
      ---------------------------------------------------------------------
      ---------------------------------------------------------------------
      Total soil rain loss =      0.23(In)
      Total effective rainfall =      3.37(In)
      Peak flow rate in flood hydrograph =   1201.05(CFS)
      ----------------------------------------------------------------------
      ++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                         24 - H O U R    S T O R M
                    R u n o f f     H y d r o g r a p h
      ---------------------------------------------------------------------
                 Hydrograph in   5   Minute intervals ((CFS))

      ---------------------------------------------------------------------
Time(h+m) Volume Ac.Ft   Q(CFS)  0      325.0     650.0     975.0    1300.0
-------------------------------------------------------------------------
  0+ 5       0.0019      0.27  Q         |         |         |         |
  0+10       0.0089      1.03  Q         |         |         |         |
  0+15       0.0239      2.18  Q         |         |         |         |
  0+20       0.0513      3.98  Q         |         |         |         |
  0+25       0.0985      6.85  Q         |         |         |         |
  0+30       0.1761     11.27  Q         |         |         |         |
  0+35       0.2801     15.10  Q         |         |         |         |
  0+40       0.3981     17.13  Q         |         |         |         |
  0+45       0.5265     18.65  Q         |         |         |         |
  0+50       0.6632     19.85  Q         |         |         |         |
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0+55       0.8071     20.89  Q         |         |         |         |
1+ 0       0.9571     21.79  Q         |         |         |         |
1+ 5       1.1124     22.55  Q         |         |         |         |
1+10       1.2724     23.23  Q         |         |         |         |
1+15       1.4366     23.84  Q         |         |         |         |
1+20       1.6045     24.38  Q         |         |         |         |
1+25       1.7758     24.87  Q         |         |         |         |
1+30       1.9502     25.32  Q         |         |         |         |
1+35       2.1272     25.71  Q         |         |         |         |
1+40       2.3068     26.07  Q         |         |         |         |
1+45       2.4885     26.39  Q         |         |         |         |
1+50       2.6722     26.68  Q         |         |         |         |
1+55       2.8578     26.95  Q         |         |         |         |
2+ 0       3.0451     27.19  Q         |         |         |         |
2+ 5       3.2336     27.38  Q         |         |         |         |
2+10       3.4234     27.56  Q         |         |         |         |
2+15       3.6145     27.75  Q         |         |         |         |
2+20       3.8068     27.92  Q         |         |         |         |
2+25       4.0003     28.10  Q         |         |         |         |
2+30       4.1950     28.26  Q         |         |         |         |
2+35       4.3907     28.42  QV        |         |         |         |
2+40       4.5875     28.58  QV        |         |         |         |
2+45       4.7854     28.73  QV        |         |         |         |
2+50       4.9844     28.89  QV        |         |         |         |
2+55       5.1844     29.05  QV        |         |         |         |
3+ 0       5.3855     29.20  QV        |         |         |         |
3+ 5       5.5877     29.35  QV        |         |         |         |
3+10       5.7908     29.50  QV        |         |         |         |
3+15       5.9950     29.65  QV        |         |         |         |
3+20       6.2003     29.80  QV        |         |         |         |
3+25       6.4065     29.95  QV        |         |         |         |
3+30       6.6137     30.09  QV        |         |         |         |
3+35       6.8219     30.22  QV        |         |         |         |
3+40       7.0310     30.36  QV        |         |         |         |
3+45       7.2411     30.50  QV        |         |         |         |
3+50       7.4521     30.64  QV        |         |         |         |
3+55       7.6641     30.78  QV        |         |         |         |
4+ 0       7.8770     30.92  QV        |         |         |         |
4+ 5       8.0909     31.06  QV        |         |         |         |
4+10       8.3057     31.20  QV        |         |         |         |
4+15       8.5216     31.34  Q V       |         |         |         |
4+20       8.7384     31.48  Q V       |         |         |         |
4+25       8.9562     31.63  Q V       |         |         |         |
4+30       9.1751     31.78  Q V       |         |         |         |
4+35       9.3950     31.93  Q V       |         |         |         |
4+40       9.6159     32.08  Q V       |         |         |         |
4+45       9.8379     32.23  Q V       |         |         |         |
4+50      10.0609     32.39  Q V       |         |         |         |
4+55      10.2850     32.54  |QV       |         |         |         |
5+ 0      10.5102     32.70  |QV       |         |         |         |
5+ 5      10.7365     32.86  |QV       |         |         |         |
5+10      10.9640     33.02  |QV       |         |         |         |
5+15      11.1925     33.19  |QV       |         |         |         |
5+20      11.4222     33.35  |QV       |         |         |         |
5+25      11.6531     33.52  |QV       |         |         |         |
5+30      11.8851     33.69  |QV       |         |         |         |
5+35      12.1183     33.86  |QV       |         |         |         |
5+40      12.3528     34.04  |QV       |         |         |         |
5+45      12.5884     34.22  |QV       |         |         |         |
```

```
 5+50      12.8253     34.39  |Q V      |         |         |         |
 5+55      13.0634     34.58  |Q V      |         |         |         |
 6+ 0      13.3028     34.76  |Q V      |         |         |         |
 6+ 5      13.5435     34.95  |Q V      |         |         |         |
 6+10      13.7855     35.14  |Q V      |         |         |         |
 6+15      14.0288     35.33  |Q V      |         |         |         |
 6+20      14.2734     35.52  |Q V      |         |         |         |
 6+25      14.5194     35.72  |Q V      |         |         |         |
 6+30      14.7667     35.92  |Q V      |         |         |         |
 6+35      15.0155     36.12  |Q V      |         |         |         |
 6+40      15.2657     36.32  |Q V      |         |         |         |
 6+45      15.5172     36.53  |Q V      |         |         |         |
 6+50      15.7703     36.74  |Q V      |         |         |         |
 6+55      16.0248     36.96  |Q V      |         |         |         |
 7+ 0      16.2808     37.17  |Q V      |         |         |         |
 7+ 5      16.5384     37.39  |Q V      |         |         |         |
 7+10      16.7974     37.62  |Q V      |         |         |         |
 7+15      17.0581     37.84  |Q  V     |         |         |         |
 7+20      17.3203     38.07  |Q  V     |         |         |         |
 7+25      17.5841     38.31  |Q  V     |         |         |         |
 7+30      17.8495     38.54  |Q  V     |         |         |         |
 7+35      18.1167     38.78  |Q  V     |         |         |         |
 7+40      18.3855     39.03  |Q  V     |         |         |         |
 7+45      18.6560     39.28  |Q  V     |         |         |         |
 7+50      18.9282     39.53  |Q  V     |         |         |         |
 7+55      19.2022     39.79  |Q  V     |         |         |         |
 8+ 0      19.4780     40.05  |Q  V     |         |         |         |
 8+ 5      19.7556     40.31  |Q  V     |         |         |         |
 8+10      20.0351     40.58  |Q  V     |         |         |         |
 8+15      20.3165     40.85  |Q  V     |         |         |         |
 8+20      20.5998     41.13  |Q  V     |         |         |         |
 8+25      20.8850     41.42  |Q  V     |         |         |         |
 8+30      21.1722     41.70  |Q   V    |         |         |         |
 8+35      21.4614     42.00  |Q   V    |         |         |         |
 8+40      21.7527     42.29  |Q   V    |         |         |         |
 8+45      22.0461     42.60  |Q   V    |         |         |         |
 8+50      22.3416     42.91  |Q   V    |         |         |         |
 8+55      22.6392     43.22  |Q   V    |         |         |         |
 9+ 0      22.9391     43.54  |Q   V    |         |         |         |
 9+ 5      23.2412     43.86  |Q   V    |         |         |         |
 9+10      23.5456     44.20  |Q   V    |         |         |         |
 9+15      23.8523     44.53  |Q   V    |         |         |         |
 9+20      24.1614     44.88  |Q   V    |         |         |         |
 9+25      24.4729     45.23  |Q   V    |         |         |         |
 9+30      24.7869     45.59  |Q   V    |         |         |         |
 9+35      25.1033     45.95  |Q   V    |         |         |         |
 9+40      25.4224     46.33  |Q    V   |         |         |         |
 9+45      25.7441     46.71  |Q    V   |         |         |         |
 9+50      26.0684     47.10  |Q    V   |         |         |         |
 9+55      26.3955     47.49  |Q    V   |         |         |         |
10+ 0      26.7253     47.90  |Q    V   |         |         |         |
10+ 5      27.0580     48.31  |Q    V   |         |         |         |
10+10      27.3936     48.73  |Q    V   |         |         |         |
10+15      27.7322     49.16  |Q    V   |         |         |         |
10+20      28.0738     49.60  |Q    V   |         |         |         |
10+25      28.4185     50.05  |Q    V   |         |         |         |
10+30      28.7664     50.51  |Q    V   |         |         |         |
10+35      29.1176     50.98  |Q    V   |         |         |         |
10+40      29.4720     51.47  |Q    V   |         |         |         |
```

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10+45      29.8299     51.96  |Q     V  |         |         |         |
10+50      30.1912     52.47  |Q     V  |         |         |         |
10+55      30.5561     52.98  |Q     V  |         |         |         |
11+ 0      30.9247     53.52  |Q     V  |         |         |         |
11+ 5      31.2970     54.06  |Q     V  |         |         |         |
11+10      31.6732     54.62  |Q     V  |         |         |         |
11+15      32.0533     55.19  |Q     V  |         |         |         |
11+20      32.4374     55.78  |Q     V  |         |         |         |
11+25      32.8257     56.38  |Q     V  |         |         |         |
11+30      33.2183     57.00  |Q     V  |         |         |         |
11+35      33.6153     57.64  |Q     V  |         |         |         |
11+40      34.0168     58.30  |Q      V |         |         |         |
11+45      34.4229     58.97  |Q      V |         |         |         |
11+50      34.8338     59.66  |Q      V |         |         |         |
11+55      35.2496     60.38  |Q      V |         |         |         |
12+ 0      35.6705     61.11  |Q      V |         |         |         |
12+ 5      36.0961     61.79  |Q      V |         |         |         |
12+10      36.5254     62.34  |Q      V |         |         |         |
12+15      36.9579     62.79  |Q      V |         |         |         |
12+20      37.3923     63.07  |Q      V |         |         |         |
12+25      37.8265     63.05  |Q      V |         |         |         |
12+30      38.2575     62.58  |Q       V|         |         |         |
12+35      38.6866     62.31  |Q       V|         |         |         |
12+40      39.1179     62.62  |Q       V|         |         |         |
12+45      39.5526     63.12  |Q       V|         |         |         |
12+50      39.9916     63.74  |Q       V|         |         |         |
12+55      40.4355     64.45  |Q       V|         |         |         |
13+ 0      40.8849     65.25  | Q      V|         |         |         |
13+ 5      41.3403     66.12  | Q      V|         |         |         |
13+10      41.8022     67.07  | Q      V|         |         |         |
13+15      42.2711     68.08  | Q      V|         |         |         |
13+20      42.7474     69.17  | Q       V         |         |         |
13+25      43.2318     70.32  | Q       V         |         |         |
13+30      43.7245     71.55  | Q       V         |         |         |
13+35      44.2263     72.86  | Q       V         |         |         |
13+40      44.7376     74.25  | Q       V         |         |         |
13+45      45.2591     75.71  | Q       V         |         |         |
13+50      45.7913     77.28  | Q       V         |         |         |
13+55      46.3349     78.93  | Q       V         |         |         |
14+ 0      46.8906     80.69  | Q       |V        |         |         |
14+ 5      47.4596     82.63  | Q       |V        |         |         |
14+10      48.0439     84.83  | Q       |V        |         |         |
14+15      48.6449     87.26  | Q       |V        |         |         |
14+20      49.2649     90.03  | Q       |V        |         |         |
14+25      49.9070     93.24  | Q       |V        |         |         |
14+30      50.5755     97.06  | Q       |V        |         |         |
14+35      51.2706    100.93  |  Q      | V       |         |         |
14+40      51.9906    104.54  |  Q      | V       |         |         |
14+45      52.7361    108.25  |  Q      | V       |         |         |
14+50      53.5086    112.17  |  Q      | V       |         |         |
14+55      54.3100    116.35  |  Q      | V       |         |         |
15+ 0      55.1425    120.88  |  Q      |  V      |         |         |
15+ 5      56.0087    125.78  |  Q      |  V      |         |         |
15+10      56.9122    131.18  |   Q     |  V      |         |         |
15+15      57.8567    137.14  |   Q     |  V      |         |         |
15+20      58.8471    143.81  |   Q     |  V      |         |         |
15+25      59.8892    151.31  |   Q     |   V     |         |         |
15+30      60.9907    159.93  |   Q     |   V     |         |         |
15+35      62.1607    169.89  |    Q    |   V     |         |         |
```

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15+40      63.4120    181.69  |    Q    |   V     |         |         |
15+45      64.7619    195.99  |     Q   |    V    |         |         |
15+50      66.2362    214.07  |     Q   |    V    |         |         |
15+55      67.8781    238.40  |      Q  |     V   |         |         |
16+ 0      69.7693    274.61  |       Q |     V   |         |         |
16+ 5      72.2612    361.83  |         |Q     V  |         |         |
16+10      75.6256    488.51  |         |    Q V  |         |         |
16+15      79.8098    607.54  |         |       Q |         |         |
16+20      85.1210    771.19  |         |         V  Q      |         |
16+25      91.8685    979.73  |         |         |V        Q         |
16+30     100.1401   1201.05  |         |         |  V      |     Q   |
16+35     107.3638   1048.87  |         |         |    V    | Q       |
16+40     112.2898    715.26  |         |         | Q   V   |         |
16+45     116.3040    582.87  |         |      Q  |      V  |         |
16+50     119.7117    494.80  |         |    Q    |       V |         |
16+55     122.7350    438.98  |         |  Q      |        V|         |
17+ 0     125.4138    388.96  |         |Q        |        V|         |
17+ 5     127.7979    346.17  |         Q         |         V         |
17+10     129.9629    314.36  |        Q|         |         V         |
17+15     131.9300    285.63  |       Q |         |         |V        |
17+20     133.7157    259.28  |      Q  |         |         |V        |
17+25     135.3504    237.36  |      Q  |         |         |V        |
17+30     136.8385    216.07  |     Q   |         |         | V       |
17+35     138.1809    194.93  |    Q    |         |         | V       |
17+40     139.4069    178.01  |    Q    |         |         | V       |
17+45     140.5306    163.17  |    Q    |         |         |  V      |
17+50     141.5651    150.21  |   Q     |         |         |  V      |
17+55     142.5115    137.41  |   Q     |         |         |  V      |
18+ 0     143.3724    125.00  |  Q      |         |         |  V      |
18+ 5     144.1409    111.59  |  Q      |         |         |   V     |
18+10     144.8697    105.81  |  Q      |         |         |   V     |
18+15     145.5650    100.95  |  Q      |         |         |   V     |
18+20     146.2244     95.74  | Q       |         |         |   V     |
18+25     146.8625     92.66  | Q       |         |         |   V     |
18+30     147.4779     89.35  | Q       |         |         |   V     |
18+35     148.0637     85.06  | Q       |         |         |    V    |
18+40     148.6335     82.73  | Q       |         |         |    V    |
18+45     149.1877     80.47  | Q       |         |         |    V    |
18+50     149.7260     78.16  | Q       |         |         |    V    |
18+55     150.2498     76.06  | Q       |         |         |    V    |
19+ 0     150.7542     73.25  | Q       |         |         |    V    |
19+ 5     151.2390     70.38  | Q       |         |         |    V    |
19+10     151.7108     68.50  | Q       |         |         |    V    |
19+15     152.1668     66.22  | Q       |         |         |    V    |
19+20     152.6076     64.00  |Q        |         |         |     V   |
19+25     153.0386     62.58  |Q        |         |         |     V   |
19+30     153.4444     58.93  |Q        |         |         |     V   |
19+35     153.8372     57.03  |Q        |         |         |     V   |
19+40     154.2206     55.68  |Q        |         |         |     V   |
19+45     154.5949     54.35  |Q        |         |         |     V   |
19+50     154.9569     52.55  |Q        |         |         |     V   |
19+55     155.3073     50.89  |Q        |         |         |     V   |
20+ 0     155.6507     49.86  |Q        |         |         |     V   |
20+ 5     155.9875     48.90  |Q        |         |         |     V   |
20+10     156.3181     48.01  |Q        |         |         |     V   |
20+15     156.6429     47.16  |Q        |         |         |      V  |
20+20     156.9622     46.36  |Q        |         |         |      V  |
20+25     157.2762     45.60  |Q        |         |         |      V  |
20+30     157.5852     44.87  |Q        |         |         |      V  |
```

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20+35     157.8894     44.17  |Q         |          |          |      V  |
20+40     158.1890     43.50  |Q         |          |          |      V  |
20+45     158.4841     42.85  |Q         |          |          |      V  |
20+50     158.7750     42.23  |Q         |          |          |      V  |
20+55     159.0618     41.64  |Q         |          |          |      V  |
21+ 0     159.3446     41.07  |Q         |          |          |      V  |
21+ 5     159.6236     40.51  |Q         |          |          |      V  |
21+10     159.8989     39.98  |Q         |          |          |      V  |
21+15     160.1707     39.46  |Q         |          |          |      V  |
21+20     160.4390     38.96  |Q         |          |          |      V  |
21+25     160.7039     38.47  |Q         |          |          |      V  |
21+30     160.9656     38.00  |Q         |          |          |       V |
21+35     161.2242     37.54  |Q         |          |          |       V |
21+40     161.4796     37.09  |Q         |          |          |       V |
21+45     161.7321     36.66  |Q         |          |          |       V |
21+50     161.9817     36.24  |Q         |          |          |       V |
21+55     162.2285     35.83  |Q         |          |          |       V |
22+ 0     162.4725     35.43  |Q         |          |          |       V |
22+ 5     162.7138     35.04  |Q         |          |          |       V |
22+10     162.9526     34.67  |Q         |          |          |       V |
22+15     163.1888     34.30  |Q         |          |          |       V |
22+20     163.4226     33.94  |Q         |          |          |       V |
22+25     163.6539     33.59  |Q         |          |          |       V |
22+30     163.8830     33.26  |Q         |          |          |       V |
22+35     164.1097     32.92  |Q         |          |          |       V |
22+40     164.3343     32.60  |Q         |          |          |       V |
22+45     164.5566     32.29  Q          |          |          |       V |
22+50     164.7769     31.98  Q          |          |          |       V |
22+55     164.9950     31.68  Q          |          |          |        V|
23+ 0     165.2112     31.39  Q          |          |          |        V|
23+ 5     165.4254     31.10  Q          |          |          |        V|
23+10     165.6376     30.82  Q          |          |          |        V|
23+15     165.8480     30.54  Q          |          |          |        V|
23+20     166.0565     30.28  Q          |          |          |        V|
23+25     166.2632     30.01  Q          |          |          |        V|
23+30     166.4681     29.76  Q          |          |          |        V|
23+35     166.6713     29.51  Q          |          |          |        V|
23+40     166.8729     29.26  Q          |          |          |        V|
23+45     167.0727     29.02  Q          |          |          |        V|
23+50     167.2709     28.78  Q          |          |          |        V|
23+55     167.4676     28.55  Q          |          |          |        V|
24+ 0     167.6626     28.32  Q          |          |          |        V|
24+ 5     167.8543     27.83  Q          |          |          |        V|
24+10     168.0393     26.86  Q          |          |          |        V|
24+15     168.2150     25.51  Q          |          |          |        V|
24+20     168.3770     23.52  Q          |          |          |        V|
24+25     168.5182     20.50  Q          |          |          |        V|
24+30     168.6281     15.95  Q          |          |          |        V|
24+35     168.7111     12.05  Q          |          |          |        V|
24+40     168.7798      9.98  Q          |          |          |        V|
24+45     168.8380      8.45  Q          |          |          |        V|
24+50     168.8880      7.26  Q          |          |          |        V|
24+55     168.9309      6.23  Q          |          |          |        V|
25+ 0     168.9679      5.37  Q          |          |          |        V|
25+ 5     168.9999      4.65  Q          |          |          |        V|
25+10     169.0276      4.02  Q          |          |          |        V|
25+15     169.0514      3.46  Q          |          |          |        V|
25+20     169.0720      2.98  Q          |          |          |        V|
25+25     169.0896      2.56  Q          |          |          |        V|
```

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  25+30     169.1047      2.19  Q         |         |         |        V|
  25+35     169.1176      1.87  Q         |         |         |        V|
  25+40     169.1287      1.61  Q         |         |         |        V|
  25+45     169.1381      1.37  Q         |         |         |        V|
  25+50     169.1462      1.17  Q         |         |         |        V|
  25+55     169.1530      1.00  Q         |         |         |        V|
  26+ 0     169.1589      0.86  Q         |         |         |        V|
  26+ 5     169.1642      0.77  Q         |         |         |        V|
  26+10     169.1689      0.68  Q         |         |         |        V|
  26+15     169.1730      0.60  Q         |         |         |        V|
  26+20     169.1767      0.53  Q         |         |         |        V|
  26+25     169.1799      0.47  Q         |         |         |        V|
  26+30     169.1827      0.41  Q         |         |         |        V|
  26+35     169.1852      0.36  Q         |         |         |        V|
  26+40     169.1874      0.32  Q         |         |         |        V|
  26+45     169.1893      0.28  Q         |         |         |        V|
  26+50     169.1909      0.24  Q         |         |         |        V|
  26+55     169.1922      0.20  Q         |         |         |        V|
  27+ 0     169.1933      0.16  Q         |         |         |        V|
  27+ 5     169.1943      0.13  Q         |         |         |        V|
  27+10     169.1950      0.10  Q         |         |         |        V|
  27+15     169.1955      0.08  Q         |         |         |        V|
  27+20     169.1959      0.06  Q         |         |         |        V|
  27+25     169.1962      0.04  Q         |         |         |        V|
  27+30     169.1963      0.03  Q         |         |         |        V|
  27+35     169.1965      0.02  Q         |         |         |        V|
  27+40     169.1965      0.01  Q         |         |         |        V|
  27+45     169.1966      0.00  Q         |         |         |        V|
----------------------------------------------------------------------
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U n i t H y d r o g r a p h A n a l y s i s

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Study date 08/10/17

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San Bernardino County Synthetic Unit Hydrology Method
Manual date - August 1986

Program License Serial Number 6320

164309 - NRG COOLWATER SOLAR FACILITY - DAGGETT, CA
OFFSITE AREA "K"
100-YEAR, 24-HOUR STORM EVENT
BY: JDN, DATE: 08-10-17

Storm Event Year = 100

Antecedent Moisture Condition = 3

English (in-lb) Input Units Used

English Rainfall Data (Inches) Input Values Used

English Units used in output format

Area averaged rainfall intensity isohyetal data:

Sub-Area (Ac.)	Duration (hours)	Isohyetal (In)
Rainfall data for year 100		
6161.64	1	1.44
Rainfall data for year 100		
6161.64	6	2.39
Rainfall data for year 100		
6161.64	24	3.73

++

******** Area-averaged max loss rate, Fm ********

SCS curve No.(AMCII)	SCS curve NO.(AMC 3)	Area (Ac.)	Area Fraction	Fp(Fig C6) (In/Hr)	Ap (dec.)	Fm (In/Hr)
81.2	94.7	6161.64	1.000	0.103	0.993	0.102

Area-averaged adjusted loss rate Fm (In/Hr) = 0.102

********* Area-Averaged low loss rate fraction, Yb **********

Area (Ac.)	Area Fract	SCS CN (AMC2)	SCS CN (AMC3)	S	Pervious Yield Fr
6118.51	0.993	81.2	94.7	0.55	0.841
43.13	0.007	98.0	98.0	0.20	0.937

Area-averaged catchment yield fraction, Y = 0.842
Area-averaged low loss fraction, Yb = 0.158
++
Watercourse length = 39200.00(Ft.)
Length from concentration point to centroid = 25007.00(Ft.)
Elevation difference along watercourse = 2675.00(Ft.)
Mannings friction factor along watercourse = 0.035
Watershed area = 6161.64(Ac.)
Catchment Lag time = 1.062 hours
Unit interval = 5.000 minutes
Unit interval percentage of lag time = 7.8487
Hydrograph baseflow = 0.00(CFS)
Average maximum watershed loss rate(Fm) = 0.102(In/Hr)
Average low loss rate fraction (Yb) = 0.158 (decimal)
VALLEY DEVELOPED S-Graph proportion = 0.000
VALLEY UNDEVELOPED S-Graph proportion = 0.000
FOOTHILL S-Graph proportion = 0.600
MOUNTAIN S-Graph proportion = 0.000
DESERT S-Graph proportion = 0.400

Computed peak 5-minute rainfall = 0.681(In)
Computed peak 30-minute rainfall = 1.166(In)
Specified peak 1-hour rainfall = 1.436(In)
Computed peak 3-hour rainfall = 1.960(In)
Specified peak 6-hour rainfall = 2.386(In)
Specified peak 24-hour rainfall = 3.735(In)

Rainfall depth area reduction factors:
Using a total area of 6161.64(Ac.) (Ref: fig. E-4)

5-minute factor = 0.753 Adjusted rainfall = 0.513(In)
30-minute factor = 0.753 Adjusted rainfall = 0.878(In)
1-hour factor = 0.753 Adjusted rainfall = 1.081(In)
3-hour factor = 0.965 Adjusted rainfall = 1.892(In)
6-hour factor = 0.983 Adjusted rainfall = 2.344(In)
24-hour factor = 0.991 Adjusted rainfall = 3.703(In)

U n i t H y d r o g r a p h
++
Interval Number	'S' Graph Mean values	Unit Hydrograph ((CFS))
	(K = 74517.33 (CFS))	
1	0.436	325.184
2	1.331	666.775
3	2.585	934.652
4	4.138	1156.833
5	5.998	1386.456

6	8.287	1705.054
7	10.958	1990.876
8	14.661	2759.139
9	19.594	3675.826
10	25.275	4233.221
11	31.345	4523.299
12	38.703	5483.253
13	47.868	6829.032
14	53.705	4350.222
15	57.967	3175.737
16	61.361	2528.829
17	64.299	2189.278
18	66.890	1930.797
19	69.198	1720.112
20	71.262	1538.315
21	73.124	1387.064
22	74.894	1319.253
23	76.554	1237.047
24	77.987	1067.823
25	79.391	1046.118
26	80.745	1008.584
27	81.872	840.216
28	82.965	814.129
29	84.047	806.357
30	84.993	705.008
31	85.897	673.762
32	86.800	672.540
33	87.608	602.272
34	88.361	561.468
35	89.115	561.468
36	89.810	518.143
37	90.438	467.957
38	91.066	467.890
39	91.652	436.816
40	92.145	367.513
41	92.635	364.954
42	93.110	353.485
43	93.519	304.908
44	93.921	299.450
45	94.317	295.584
46	94.667	260.901
47	95.006	252.661
48	95.344	251.401
49	95.635	216.798
50	95.905	201.193
51	96.175	201.141
52	96.388	158.608
53	96.551	121.651
54	96.714	121.651
55	96.877	121.651
56	97.041	121.651
57	97.204	121.651
58	97.359	115.952
59	97.490	97.357
60	97.619	95.918
61	97.747	95.918
62	97.876	95.918
63	98.005	95.918
64	98.132	94.492

65	98.227	71.304
66	98.312	63.165
67	98.397	63.165
68	98.482	63.165
69	98.566	63.165
70	98.651	63.165
71	98.729	58.166
72	98.798	51.501
73	98.867	51.468
74	98.937	51.468
75	99.006	51.468
76	99.075	51.468
77	99.142	50.032
78	99.200	43.041
79	99.256	42.110
80	99.313	42.110
81	99.369	42.110
82	99.426	42.110
83	99.482	41.992
84	99.532	37.431
85	99.579	35.092
86	99.626	35.092
87	99.673	35.092
88	99.721	35.092
89	99.768	35.092
90	99.806	28.448
91	99.826	14.857
92	99.845	14.622
93	99.865	14.622
94	99.885	14.622
95	99.904	14.622
96	99.924	14.622
97	99.943	14.622
98	99.963	14.622
99	99.983	14.622
100	100.000	12.863

Peak Unit Number	Adjusted mass rainfall (In)	Unit rainfall (In)
1	0.5130	0.5130
2	0.6315	0.1186
3	0.7132	0.0817
4	0.7775	0.0643
5	0.8313	0.0538
6	0.8781	0.0467
7	0.9196	0.0416
8	0.9572	0.0376
9	0.9917	0.0344
10	1.0235	0.0318
11	1.0532	0.0297
12	1.0811	0.0279
13	1.1261	0.0450
14	1.1694	0.0433
15	1.2113	0.0419
16	1.2518	0.0405
17	1.2910	0.0393
18	1.3292	0.0382
19	1.3663	0.0371
20	1.4025	0.0362

21	1.4378	0.0353
22	1.4723	0.0345
23	1.5061	0.0337
24	1.5391	0.0330
25	1.5715	0.0324
26	1.6032	0.0317
27	1.6343	0.0311
28	1.6649	0.0306
29	1.6949	0.0300
30	1.7245	0.0295
31	1.7535	0.0291
32	1.7821	0.0286
33	1.8103	0.0282
34	1.8381	0.0278
35	1.8654	0.0274
36	1.8924	0.0270
37	1.9085	0.0161
38	1.9243	0.0158
39	1.9398	0.0155
40	1.9550	0.0152
41	1.9700	0.0150
42	1.9847	0.0147
43	1.9992	0.0145
44	2.0135	0.0143
45	2.0275	0.0140
46	2.0413	0.0138
47	2.0549	0.0136
48	2.0683	0.0134
49	2.0816	0.0132
50	2.0946	0.0130
51	2.1075	0.0129
52	2.1202	0.0127
53	2.1327	0.0125
54	2.1450	0.0124
55	2.1572	0.0122
56	2.1693	0.0120
57	2.1812	0.0119
58	2.1929	0.0118
59	2.2045	0.0116
60	2.2160	0.0115
61	2.2274	0.0113
62	2.2386	0.0112
63	2.2497	0.0111
64	2.2607	0.0110
65	2.2715	0.0109
66	2.2823	0.0107
67	2.2929	0.0106
68	2.3034	0.0105
69	2.3138	0.0104
70	2.3242	0.0103
71	2.3344	0.0102
72	2.3445	0.0101
73	2.3552	0.0107
74	2.3657	0.0106
75	2.3762	0.0105
76	2.3866	0.0104
77	2.3969	0.0103
78	2.4072	0.0102
79	2.4173	0.0101

80	2.4273	0.0100
81	2.4373	0.0100
82	2.4472	0.0099
83	2.4570	0.0098
84	2.4667	0.0097
85	2.4763	0.0096
86	2.4859	0.0096
87	2.4954	0.0095
88	2.5048	0.0094
89	2.5142	0.0093
90	2.5234	0.0093
91	2.5327	0.0092
92	2.5418	0.0091
93	2.5509	0.0091
94	2.5599	0.0090
95	2.5688	0.0089
96	2.5777	0.0089
97	2.5865	0.0088
98	2.5953	0.0088
99	2.6040	0.0087
100	2.6126	0.0086
101	2.6212	0.0086
102	2.6297	0.0085
103	2.6382	0.0085
104	2.6466	0.0084
105	2.6550	0.0084
106	2.6633	0.0083
107	2.6716	0.0083
108	2.6798	0.0082
109	2.6879	0.0082
110	2.6960	0.0081
111	2.7041	0.0081
112	2.7121	0.0080
113	2.7201	0.0080
114	2.7280	0.0079
115	2.7358	0.0079
116	2.7437	0.0078
117	2.7514	0.0078
118	2.7592	0.0077
119	2.7668	0.0077
120	2.7745	0.0076
121	2.7821	0.0076
122	2.7896	0.0076
123	2.7972	0.0075
124	2.8046	0.0075
125	2.8121	0.0074
126	2.8195	0.0074
127	2.8268	0.0074
128	2.8342	0.0073
129	2.8414	0.0073
130	2.8487	0.0072
131	2.8559	0.0072
132	2.8630	0.0072
133	2.8702	0.0071
134	2.8773	0.0071
135	2.8843	0.0071
136	2.8914	0.0070
137	2.8984	0.0070
138	2.9053	0.0070

139	2.9122	0.0069
140	2.9191	0.0069
141	2.9260	0.0069
142	2.9328	0.0068
143	2.9396	0.0068
144	2.9464	0.0068
145	2.9531	0.0067
146	2.9598	0.0067
147	2.9665	0.0067
148	2.9731	0.0066
149	2.9797	0.0066
150	2.9863	0.0066
151	2.9928	0.0065
152	2.9994	0.0065
153	3.0058	0.0065
154	3.0123	0.0065
155	3.0187	0.0064
156	3.0251	0.0064
157	3.0315	0.0064
158	3.0379	0.0064
159	3.0442	0.0063
160	3.0505	0.0063
161	3.0568	0.0063
162	3.0630	0.0062
163	3.0692	0.0062
164	3.0754	0.0062
165	3.0816	0.0062
166	3.0878	0.0061
167	3.0939	0.0061
168	3.1000	0.0061
169	3.1060	0.0061
170	3.1121	0.0060
171	3.1181	0.0060
172	3.1241	0.0060
173	3.1301	0.0060
174	3.1360	0.0060
175	3.1420	0.0059
176	3.1479	0.0059
177	3.1538	0.0059
178	3.1596	0.0059
179	3.1655	0.0058
180	3.1713	0.0058
181	3.1771	0.0058
182	3.1829	0.0058
183	3.1886	0.0058
184	3.1943	0.0057
185	3.2001	0.0057
186	3.2057	0.0057
187	3.2114	0.0057
188	3.2171	0.0057
189	3.2227	0.0056
190	3.2283	0.0056
191	3.2339	0.0056
192	3.2395	0.0056
193	3.2450	0.0056
194	3.2506	0.0055
195	3.2561	0.0055
196	3.2616	0.0055
197	3.2671	0.0055

198	3.2725	0.0055
199	3.2779	0.0054
200	3.2834	0.0054
201	3.2888	0.0054
202	3.2942	0.0054
203	3.2995	0.0054
204	3.3049	0.0053
205	3.3102	0.0053
206	3.3155	0.0053
207	3.3208	0.0053
208	3.3261	0.0053
209	3.3314	0.0053
210	3.3366	0.0052
211	3.3418	0.0052
212	3.3471	0.0052
213	3.3522	0.0052
214	3.3574	0.0052
215	3.3626	0.0052
216	3.3677	0.0051
217	3.3729	0.0051
218	3.3780	0.0051
219	3.3831	0.0051
220	3.3882	0.0051
221	3.3932	0.0051
222	3.3983	0.0051
223	3.4033	0.0050
224	3.4084	0.0050
225	3.4134	0.0050
226	3.4184	0.0050
227	3.4233	0.0050
228	3.4283	0.0050
229	3.4333	0.0049
230	3.4382	0.0049
231	3.4431	0.0049
232	3.4480	0.0049
233	3.4529	0.0049
234	3.4578	0.0049
235	3.4627	0.0049
236	3.4675	0.0049
237	3.4723	0.0048
238	3.4772	0.0048
239	3.4820	0.0048
240	3.4868	0.0048
241	3.4916	0.0048
242	3.4963	0.0048
243	3.5011	0.0048
244	3.5058	0.0047
245	3.5106	0.0047
246	3.5153	0.0047
247	3.5200	0.0047
248	3.5247	0.0047
249	3.5293	0.0047
250	3.5340	0.0047
251	3.5387	0.0047
252	3.5433	0.0046
253	3.5479	0.0046
254	3.5526	0.0046
255	3.5572	0.0046
256	3.5618	0.0046

257	3.5663	0.0046
258	3.5709	0.0046
259	3.5755	0.0046
260	3.5800	0.0045
261	3.5845	0.0045
262	3.5891	0.0045
263	3.5936	0.0045
264	3.5981	0.0045
265	3.6026	0.0045
266	3.6070	0.0045
267	3.6115	0.0045
268	3.6160	0.0045
269	3.6204	0.0044
270	3.6248	0.0044
271	3.6292	0.0044
272	3.6337	0.0044
273	3.6381	0.0044
274	3.6424	0.0044
275	3.6468	0.0044
276	3.6512	0.0044
277	3.6555	0.0044
278	3.6599	0.0043
279	3.6642	0.0043
280	3.6685	0.0043
281	3.6729	0.0043
282	3.6772	0.0043
283	3.6815	0.0043
284	3.6857	0.0043
285	3.6900	0.0043
286	3.6943	0.0043
287	3.6985	0.0043
288	3.7028	0.0042

Unit Period (number)	Unit Rainfall (In)	Unit Soil-Loss (In)	Effective Rainfall (In)
1	0.0042	0.0007	0.0036
2	0.0043	0.0007	0.0036
3	0.0043	0.0007	0.0036
4	0.0043	0.0007	0.0036
5	0.0043	0.0007	0.0036
6	0.0043	0.0007	0.0036
7	0.0043	0.0007	0.0037
8	0.0043	0.0007	0.0037
9	0.0044	0.0007	0.0037
10	0.0044	0.0007	0.0037
11	0.0044	0.0007	0.0037
12	0.0044	0.0007	0.0037
13	0.0044	0.0007	0.0037
14	0.0044	0.0007	0.0037
15	0.0045	0.0007	0.0038
16	0.0045	0.0007	0.0038
17	0.0045	0.0007	0.0038
18	0.0045	0.0007	0.0038
19	0.0045	0.0007	0.0038
20	0.0045	0.0007	0.0038
21	0.0046	0.0007	0.0038
22	0.0046	0.0007	0.0039