APPENDIX E

HEC-HMS MODEL

Cool Creek Watershed
HEC-HMS Summary Output
100-year, 24-hour Rainfall Event

Hydrologic Element	Discharge Peak (cfs)	Time of Peak	Volume (ac ft)	Drainage Area (sq mi)
C28	100.39		63.875	0.240
CM28	100.39		63.875	0.240
LR28	100.37		63.875	0.240
C20	300.51		204.12	0.780
CM20	300.51		204.12	0.780
C22	78.690		49.721	0.190
CM22	78.690		49.721	0.190
LR22	78.665		49.721	0.190
C23	232.82		161.56	0.650
CM22,23	304.62		211.28	0.840
CM20,23	605.11		415.40	1.620
LR20	605.05		415.40	1.620
C21	229.26		151.78	0.580
CM20,21	819.74		567.18	2.200
LR21	819.66		567.18	2.200
C16	78.164		49.721	0.190
CM16	78.164		49.721	0.190
LR16	78.155		49.721	0.190
C17	95.222		61.745	0.240
CM17	95.222		61.745	0.240
LR17	95.222		61.745	0.240
C10	470.35		313.13	1.000
	434.09		309.05	1.000
	396.24		306.72	1.000
CM10	396.24		306.72	1.000
LR10	396.08		306.65	1.000
C9	320.62		225.05	0.860
CM9,10	716.05		531.70	1.860
LR9,10	716.05		531.50	1.860
C8A	68.448		47.104	0.180
CM8A	68.448		47.104	0.180
LR8A	68.446		47.104	0.180
C5	610.64		459.76	1.950
CM5	610.64		459.76	1.950
LR5	610.60		459.76	1.950
C6-Split	114.73		73.276	0.300
Conrail	685.02		533.03	2.250
C4	331.51		228.97	0.890
CM4,5	982.84		762.00	3.140
LR4,5	982.80		762.00	3.140
C1	691.49		491.97	1.880

Hydrologic Element	Discharge Peak (cfs)	Time of Peak	Volume (ac ft)	Drainage Area (sq mi)
CM1	691.49	02 Nov 01 0510	491.97	1.880
LR1	691.38	02 Nov 01 0610	491.97	1.880
C2	393.32	02 Nov 01 0615	308.79	1.180
CM1,2	1084.7	02 Nov 01 0610	800.77	3.060
LR2	1084.5	02 Nov 01 0710	800.77	3.060
C6	35.280	02 Nov 01 0500	24.425	0.100
C3	395.98	02 Nov 01 0535	293.29	1.140
CM2,3,6	2444.7	02 Nov 01 0635	1880.5	7.440
LR6	2444.6	02 Nov 01 0800	1880.5	7.440
C8	231.22	02 Nov 01 0405	144.20	0.670
C7	536.89	02 Nov 01 0600	409.68	1.620
CM7,8	3043.3	02 Nov 01 0735	2481.5	9.910
LR8	3043.3	02 Nov 01 0800	2481.5	9.910
C11	61.372	02 Nov 01 0405	38.665	0.170
CM8,11	3555.8	02 Nov 01 0745	3051.6	11.940
LR11	3555.2	02 Nov 01 0810	3051.4	11.940
C12	79.399	02 Nov 01 0445	51.849	0.260
C13	237.23	02 Nov 01 0430	156.59	0.630
CM11,12,13	3704.5	02 Nov 01 0810	3259.8	12.830
LR13	3704.5	02 Nov 01 0825	3259.6	12.830
C14	366.77	02 Nov 01 0350	239.42	0.870
CM13,14	3820.0	02 Nov 01 0825	3499.0	13.700
LR14	3819.7	02 Nov 01 0850	3498.7	13.700
C18	81.887	02 Nov 01 0350	52.196	0.210
C15	262.41	02 Nov 01 0445	175.13	0.770
CM14-18	4011.1	02 Nov 01 0845	3837.5	15.110
LR18	4011.1	02 Nov 01 0855	3837.4	15.110
C24	187.14	02 Nov 01 0420	120.43	0.520
C19	60.616	02 Nov 01 0335	38.590	0.150
CM18,19,24	4524.6	02 Nov 01 0650	4563.6	17.980
LR24	4524.4	02 Nov 01 0715	4563.2	17.980
C25	184.94	02 Nov 01 0430	123.49	0.480
CM24,25	4640.3	02 Nov 01 0705	4686.7	18.460
LR25	4640.2	02 Nov 01 0730	4686.4	18.460
C26	123.45	02 Nov 01 0335	76.741	0.350
CM25,26	4694.1	02 Nov 01 0720	4763.2	18.810
LR26	4693.9	02 Nov 01 0755	4762.7	18.810
C27	150.08	02 Nov 01 0450	101.38	0.430
CM26,27	4783.9	02 Nov 01 0750	4864.1	19.240
LR27	4783.9	02 Nov 01 0800	4863.9	19.240
C29	128.86	02 Nov 01 0335	80.400	0.360
CM27,29	4868.0	02 Nov 01 0755	5008.2	19.840
LR29	4867.9	02 Nov 01 0835	5007.6	19.840
C30	352.61	02 Nov 01 0425	228.70	0.970
CM29,30	5004.0	02 Nov 01 0825	5236.3	20.810
LR30	5003.6	02 Nov 01 0835	5236.1	20.810
C31	110.36	02 Nov 01 0415	70.732	0.300
CM31	110.36	02 Nov 01 0415	70.732	0.300
LR31	110.35	02 Nov 01 0440	70.732	0.300
C32	200.73	02 Nov 01 0415	129.46	0.530
CM30,32	5117.9	02 Nov 01 0830	5436.3	21.640

Hydrologic Element	Discharge Peak (cfs)	Time of Peak	Volume (ac ft)	Drainage Area (sq mi)
LR32	5117.6	02 Nov 01 0910	5435.6	21.640
C33	109.19	02 Nov 01 0335	68.233	0.300
CM33	109.19	02 Nov 01 0335	68.233	0.300
LR33	109.18	02 Nov 01 0410	68.233	0.300
C34	176.15	02 Nov 01 0435	118.34	0.460
CM33,34	285.04	02 Nov 01 0435	186.58	0.760
LR34	284.99	02 Nov 01 0500	186.58	0.760
C35	177.63	02 Nov 01 0430	115.79	0.500
CM34,35	5284.7	02 Nov 01 0900	5738.0	22.900

Cool Creek Watershed
HEC-HMS Summary Output
50-year, 24-hour Rainfall Event

Hydrologic Element	Discharge Peak (cfs)	Time of Peak	Volume (ac ft)	Drainage Area (sq mi)
C28	85.290		53.265	0.240
CM28	85.290		53.265	0.240
LR28	85.284		53.265	0.240
C20	252.68		169.89	0.780
CM20	252.68		169.89	0.780
C22	66.780		41.384	0.190
CM22	66.780		41.384	0.190
LR22	66.732		41.384	0.190
C23	194.50		133.73	0.650
CM22,23	254.45		175.12	0.840
CM20,23	507.14		345.01	1.620
LR20	506.96		345.01	1.620
C21	192.85		126.33	0.580
CM20,21	687.93		471.34	2.200
LR21	687.77		471.34	2.200
C16	66.229		41.384	0.190
CM16	66.229		41.384	0.190
LR16	66.220		41.384	0.190
C17	79.992		51.297	0.240
CM17	79.992		51.297	0.240
LR17	79.984		51.297	0.240
C10	409.31		266.38	1.000
	347.74		262.45	1.000
	312.99		260.19	1.000
CM10	312.99		260.19	1.000
LR10	312.89		260.12	1.000
C9	269.56		187.32	0.860
CM9,10	577.55		447.44	1.860
LR9,10	577.55		447.25	1.860
C8A	57.557		39.206	0.180
CM8A	57.557		39.206	0.180
LR8A	57.544		39.206	0.180
C5	507.51		378.55	1.950
CM5	507.51		378.55	1.950
LR5	507.45		378.55	1.950
C6-Split	95.738		60.547	0.300
Conrail	568.01		439.10	2.250
C4	278.16		190.23	0.890
CM4,5	806.72		629.32	3.140
LR4,5	806.30		629.32	3.140
C1	581.44		409.49	1.880

Hydrologic Element	Discharge Peak (cfs)	Time of Peak	Volume (ac ft)	Drainage Area (sq mi)
CM1	581.44	02 Nov 01 0510	409.49	1.880
LR1	581.41	02 Nov 01 0610	409.49	1.880
C2	330.84	02 Nov 01 0615	257.02	1.180
CM1,2	912.02	02 Nov 01 0610	666.50	3.060
LR2	912.01	02 Nov 01 0710	666.50	3.060
C6	29.415	02 Nov 01 0505	20.182	0.100
C3	332.36	02 Nov 01 0540	243.66	1.140
CM2,3,6	2042.3	02 Nov 01 0650	1559.7	7.440
LR6	2041.9	02 Nov 01 0810	1559.7	7.440
C8	189.98	02 Nov 01 0350	117.72	0.670
C7	449.76	02 Nov 01 0605	339.74	1.620
CM7,8	2511.7	02 Nov 01 0800	2056.3	9.910
LR8	2511.7	02 Nov 01 0825	2056.3	9.910
C11	50.753	02 Nov 01 0400	31.726	0.170
CM8,11	2897.4	02 Nov 01 0820	2535.3	11.940
LR11	2896.4	02 Nov 01 0850	2535.0	11.940
C12	64.764	02 Nov 01 0445	42.055	0.260
C13	198.20	02 Nov 01 0430	129.62	0.630
CM11,12,13	2998.1	02 Nov 01 0845	2706.7	12.830
LR13	2997.4	02 Nov 01 0905	2706.5	12.830
C14	311.73	02 Nov 01 0345	200.41	0.870
CM13,14	3075.9	02 Nov 01 0905	2906.9	13.700
LR14	3075.1	02 Nov 01 0930	2906.6	13.700
C18	68.645	02 Nov 01 0345	43.206	0.210
C15	216.92	02 Nov 01 0445	143.70	0.770
CM14-18	3203.1	02 Nov 01 0930	3186.2	15.110
LR18	3203.1	02 Nov 01 0940	3186.1	15.110
C24	155.04	02 Nov 01 0420	98.983	0.520
C19	51.183	02 Nov 01 0330	32.061	0.150
CM18,19,24	3785.0	02 Nov 01 0705	3788.5	17.980
LR24	3784.9	02 Nov 01 0730	3788.2	17.980
C25	155.18	02 Nov 01 0430	102.59	0.480
CM24,25	3876.3	02 Nov 01 0725	3890.8	18.460
LR25	3876.2	02 Nov 01 0745	3890.5	18.460
C26	102.28	02 Nov 01 0330	62.755	0.350
CM25,26	3915.2	02 Nov 01 0740	3953.3	18.810
LR26	3915.0	02 Nov 01 0810	3952.9	18.810
C27	124.59	02 Nov 01 0450	83.475	0.430
CM26,27	3983.7	02 Nov 01 0805	4036.3	19.240
LR27	3983.5	02 Nov 01 0820	4036.1	19.240
C29	106.91	02 Nov 01 0330	65.858	0.360
CM27,29	4046.0	02 Nov 01 0815	4155.3	19.840
LR29	4045.8	02 Nov 01 0855	4154.7	19.840
C30	292.73	02 Nov 01 0420	188.30	0.970
CM29,30	4146.3	02 Nov 01 0850	4343.0	20.810
LR30	4146.1	02 Nov 01 0900	4342.8	20.810
C31	91.635	02 Nov 01 0410	58.239	0.300
CM31	91.635	02 Nov 01 0410	58.239	0.300
LR31	91.634	02 Nov 01 0440	58.239	0.300
C32	167.42	02 Nov 01 0410	106.97	0.530
CM30,32	4230.0	02 Nov 01 0855	4508.0	21.640

Hydrologic Element	Discharge Peak (cfs)	Time of Peak	Volume (ac ft)	Drainage Area (sq mi)
LR32	4229.6	02 Nov 01 0935	4507.4	21.640
C33	90.797	02 Nov 01 0330	55.987	0.300
CM33	90.797	02 Nov 01 0330	55.987	0.300
LR33	90.787	02 Nov 01 0405	55.987	0.300
C34	147.79	02 Nov 01 0435	98.319	0.460
CM33,34	237.71	02 Nov 01 0430	154.31	0.760
LR34	237.71	02 Nov 01 0455	154.31	0.760
C35	147.15	02 Nov 01 0430	95.176	0.500
CM34,35	4354.2	02 Nov 01 0925	4756.8	22.900

Cool Creek Watershed
HEC-HMS Summary Output
25-year, 24-hour Rainfall Event

Hydrologic Element	Discharge Peak (cfs)	Time of Peak	Volume (ac ft)	Drainage Area (sq mi)
C28	71.204		44.010	0.240
CM28	71.204		44.010	0.240
LR28	71.188		44.010	0.240
C20	210.71		140.09	0.780
CM20	210.71		140.09	0.780
C22	55.600		34.124	0.190
CM22	55.600		34.124	0.190
LR22	55.577		34.124	0.190
C23	161.12		109.61	0.650
CM22,23	210.97		143.74	0.840
CM20,23	421.68		283.82	1.620
LR20	421.62		283.82	1.620
C21	160.85		104.17	0.580
CM20,21	572.69		387.99	2.200
LR21	572.67		387.99	2.200
C16	55.137		34.124	0.190
CM16	55.137		34.124	0.190
LR16	55.131		34.124	0.190
C17	66.573		42.212	0.240
CM17	66.573		42.212	0.240
LR17	66.571		42.212	0.240
C10	350.46		225.07	1.000
	257.03		221.29	1.000
	228.97		219.12	1.000
CM10	228.97		219.12	1.000
LR10	228.87		219.06	1.000
C9	224.83		154.45	0.860
CM9,10	439.96		373.51	1.860
LR9,10	439.96		373.33	1.860
C8A	47.999		32.328	0.180
CM8A	47.999		32.328	0.180
LR8A	47.995		32.328	0.180
C5	417.44		308.51	1.950
CM5	417.44		308.51	1.950
LR5	417.44		308.51	1.950
C6-Split	79.166		49.531	0.300
Conrail	444.52		358.04	2.250
C4	231.42		156.54	0.890
CM4,5	611.19		514.58	3.140
LR4,5	610.40		514.58	3.140
C1	484.87		337.64	1.880

Hydrologic Element	Discharge Peak (cfs)	Time of Peak	Volume (ac ft)	Drainage Area (sq mi)
CM1	484.87	02 Nov 01 0515	337.64	1.880
LR1	484.80	02 Nov 01 0615	337.64	1.880
C2	275.71	02 Nov 01 0620	211.93	1.180
CM1,2	760.41	02 Nov 01 0615	549.57	3.060
LR2	760.35	02 Nov 01 0715	549.57	3.060
C6	24.310	02 Nov 01 0505	16.510	0.100
C3	276.45	02 Nov 01 0545	200.51	1.140
CM2,3,6	1606.5	02 Nov 01 0735	1281.2	7.440
LR6	1605.4	02 Nov 01 0900	1281.2	7.440
C8	154.91	02 Nov 01 0405	95.082	0.670
C7	373.18	02 Nov 01 0605	279.01	1.620
CM7,8	1930.0	02 Nov 01 0855	1687.6	9.910
LR8	1930.0	02 Nov 01 0920	1687.6	9.910
C11	41.627	02 Nov 01 0405	25.761	0.170
CM8,11	2243.4	02 Nov 01 0735	2086.7	11.940
LR11	2243.4	02 Nov 01 0800	2086.4	11.940
C12	52.351	02 Nov 01 0445	33.738	0.260
C13	164.21	02 Nov 01 0430	106.24	0.630
CM11,12,13	2357.3	02 Nov 01 0745	2226.4	12.830
LR13	2357.2	02 Nov 01 0805	2226.2	12.830
C14	261.64	02 Nov 01 0345	166.29	0.870
CM13,14	2456.7	02 Nov 01 0750	2392.5	13.700
LR14	2456.5	02 Nov 01 0815	2392.2	13.700
C18	56.813	02 Nov 01 0350	35.414	0.210
C15	177.79	02 Nov 01 0450	116.68	0.770
CM14-18	2625.1	02 Nov 01 0800	2620.7	15.110
LR18	2625.1	02 Nov 01 0810	2620.6	15.110
C24	127.35	02 Nov 01 0420	80.520	0.520
C19	42.518	02 Nov 01 0335	26.382	0.150
CM18,19,24	3107.7	02 Nov 01 0725	3115.4	17.980
LR24	3107.7	02 Nov 01 0750	3115.2	17.980
C25	129.12	02 Nov 01 0435	84.424	0.480
CM24,25	3177.4	02 Nov 01 0745	3199.6	18.460
LR25	3177.2	02 Nov 01 0805	3199.3	18.460
C26	83.286	02 Nov 01 0330	50.774	0.350
CM25,26	3206.0	02 Nov 01 0805	3250.1	18.810
LR26	3205.8	02 Nov 01 0835	3249.7	18.810
C27	102.53	02 Nov 01 0455	68.030	0.430
CM26,27	3256.1	02 Nov 01 0835	3317.7	19.240
LR27	3256.1	02 Nov 01 0845	3317.6	19.240
C29	87.252	02 Nov 01 0335	53.380	0.360
CM27,29	3301.8	02 Nov 01 0840	3414.9	19.840
LR29	3301.5	02 Nov 01 0920	3414.4	19.840
C30	240.99	02 Nov 01 0425	153.46	0.970
CM29,30	3374.3	02 Nov 01 0915	3567.8	20.810
LR30	3374.2	02 Nov 01 0925	3567.7	20.810
C31	75.450	02 Nov 01 0415	47.463	0.300
CM31	75.450	02 Nov 01 0415	47.463	0.300
LR31	75.435	02 Nov 01 0445	47.463	0.300
C32	138.43	02 Nov 01 0415	87.505	0.530
CM30,32	3435.2	02 Nov 01 0920	3702.6	21.640

Hydrologic Element	Discharge Peak (cfs)	Time of Peak	Volume (ac ft)	Drainage Area (sq mi)
LR32	3435.0	02 Nov 01 0955	3702.0	21.640
C33	74.249	02 Nov 01 0335	45.460	0.300
CM33	74.249	02 Nov 01 0335	45.460	0.300
LR33	74.237	02 Nov 01 0410	45.460	0.300
C34	122.96	02 Nov 01 0440	80.906	0.460
CM33,34	196.82	02 Nov 01 0435	126.37	0.760
LR34	196.82	02 Nov 01 0500	126.37	0.760
C35	120.85	02 Nov 01 0430	77.423	0.500
CM34,35	3532.7	02 Nov 01 0915	3905.8	22.900

Cool Creek Watershed
HEC-HMS Summary Output
10-year, 24-hour Rainfall Event

Hydrologic Element	Discharge Peak (cfs)	Time of Peak	Volume (ac ft)	Drainage Area (sq mi)
C28	55.339		33.619	0.240
CM28	55.339		33.619	0.240
LR28	55.330		33.619	0.240
C20	162.26		106.69	0.780
CM20	162.26		106.69	0.780
C22	43.085		25.988	0.190
CM22	43.085		25.988	0.190
LR22	43.052		25.988	0.190
C23	122.83		82.762	0.650
CM22,23	160.98		108.75	0.840
CM20,23	323.25		215.44	1.620
LR20	323.20		215.44	1.620
C21	123.88		79.332	0.580
CM20,21	439.90		294.77	2.200
LR21	439.79		294.77	2.200
C16	42.677		25.988	0.190
CM16	42.677		25.988	0.190
LR16	42.674		25.988	0.190
C17	51.115		32.054	0.240
CM17	51.115		32.054	0.240
LR17	51.109		32.054	0.240
C10	283.93		177.82	1.000
	143.54		174.25	1.000
	128.14		172.20	1.000
CM10	128.14		172.20	1.000
LR10	128.12		172.14	1.000
C9	173.14		117.63	0.860
CM9,10	267.82		289.77	1.860
LR9,10	267.82		289.59	1.860
C8A	36.963		24.620	0.180
CM8A	36.963		24.620	0.180
LR8A	36.957		24.620	0.180
C5	315.70		231.04	1.950
CM5	315.70		231.04	1.950
LR5	315.69		231.04	1.950
C6-Split	60.158		37.294	0.300
Conrail	217.23		268.34	2.250
C4	177.62		118.87	0.890
CM4,5	353.54		387.20	3.140
LR4,5	353.53		387.20	3.140
C1	373.44		257.15	1.880

Hydrologic Element	Discharge Peak (cfs)	Time of Peak	Volume (ac ft)	Drainage Area (sq mi)
CM1	373.44	02 Nov 01 0515	257.15	1.880
LR1	373.43	02 Nov 01 0615	257.15	1.880
C2	212.52	02 Nov 01 0625	161.40	1.180
CM1,2	585.80	02 Nov 01 0620	418.55	3.060
LR2	585.71	02 Nov 01 0715	418.55	3.060
C6	18.475	02 Nov 01 0510	12.431	0.100
C3	212.29	02 Nov 01 0550	152.26	1.140
CM2,3,6	1140.7	02 Nov 01 0650	970.44	7.440
LR6	1140.6	02 Nov 01 0810	970.44	7.440
C8	115.12	02 Nov 01 0400	70.314	0.670
C7	285.76	02 Nov 01 0610	211.26	1.620
CM7,8	1456.8	02 Nov 01 0740	1276.6	9.910
LR8	1456.8	02 Nov 01 0805	1276.6	9.910
C11	31.224	02 Nov 01 0405	19.193	0.170
CM8,11	1720.3	02 Nov 01 0750	1585.4	11.940
LR11	1720.2	02 Nov 01 0815	1585.2	11.940
C12	38.526	02 Nov 01 0450	24.719	0.260
C13	125.15	02 Nov 01 0430	80.216	0.630
CM11,12,13	1800.0	02 Nov 01 0805	1690.1	12.830
LR13	1799.8	02 Nov 01 0820	1689.9	12.830
C14	204.30	02 Nov 01 0345	127.81	0.870
CM13,14	1869.5	02 Nov 01 0810	1817.8	13.700
LR14	1869.4	02 Nov 01 0840	1817.5	13.700
C18	43.392	02 Nov 01 0345	26.739	0.210
C15	133.38	02 Nov 01 0450	86.931	0.770
CM14-18	1985.6	02 Nov 01 0815	1989.2	15.110
LR18	1985.6	02 Nov 01 0825	1989.1	15.110
C24	95.810	02 Nov 01 0420	60.143	0.520
C19	32.763	02 Nov 01 0330	20.034	0.150
CM18,19,24	2318.6	02 Nov 01 0735	2364.1	17.980
LR24	2318.6	02 Nov 01 0805	2363.8	17.980
C25	99.089	02 Nov 01 0435	64.107	0.480
CM24,25	2374.0	02 Nov 01 0730	2427.9	18.460
LR25	2373.9	02 Nov 01 0755	2427.7	18.460
C26	62.353	02 Nov 01 0330	37.640	0.350
CM25,26	2397.2	02 Nov 01 0745	2465.3	18.810
LR26	2397.2	02 Nov 01 0820	2464.9	18.810
C27	77.402	02 Nov 01 0455	50.948	0.430
CM26,27	2440.8	02 Nov 01 0805	2515.9	19.240
LR27	2440.8	02 Nov 01 0815	2515.7	19.240
C29	65.474	02 Nov 01 0330	39.669	0.360
CM27,29	2483.3	02 Nov 01 0800	2589.0	19.840
LR29	2483.3	02 Nov 01 0840	2588.5	19.840
C30	181.88	02 Nov 01 0425	114.93	0.970
CM29,30	2555.8	02 Nov 01 0825	2703.4	20.810
LR30	2555.7	02 Nov 01 0835	2703.3	20.810
C31	56.947	02 Nov 01 0415	35.545	0.300
CM31	56.947	02 Nov 01 0415	35.545	0.300
LR31	56.935	02 Nov 01 0445	35.545	0.300
C32	105.16	02 Nov 01 0415	65.886	0.530
CM30,32	2619.2	02 Nov 01 0825	2804.7	21.640

Hydrologic Element	Discharge Peak (cfs)	Time of Peak	Volume (ac ft)	Drainage Area (sq mi)
LR32	2619.1	02 Nov 01 0905	2804.1	21.640
C33	55.899	02 Nov 01 0330	33.869	0.300
CM33	55.899	02 Nov 01 0330	33.869	0.300
LR33	55.894	02 Nov 01 0405	33.869	0.300
C34	94.362	02 Nov 01 0440	61.436	0.460
CM33,34	149.69	02 Nov 01 0435	95.306	0.760
LR34	149.68	02 Nov 01 0500	95.306	0.760
C35	90.926	02 Nov 01 0435	57.830	0.500
CM34,35	2714.4	02 Nov 01 0850	2957.3	22.900

Cool Creek Watershed
HEC-HMS Summary Output
2-year, 24-hour Rainfall Event

Hydrologic Element	Discharge Peak (cfs)	Time of Peak	Volume (ac ft)	Drainage Area (sq mi)
C28	32.094		19.267	0.240
CM28	32.094		19.267	0.240
LR28	32.088		19.267	0.240
C20	94.670		60.757	0.780
CM20	94.670		60.757	0.780
C22	24.753		14.800	0.190
CM22	24.753		14.800	0.190
LR22	24.743		14.800	0.190
C23	70.133		46.291	0.650
CM22,23	92.281		61.091	0.840
CM20,23	186.95		121.85	1.620
LR20	186.91		121.85	1.620
C21	72.387		45.178	0.580
CM20,21	255.25		167.03	2.200
LR21	255.21		167.03	2.200
C16	24.680		14.800	0.190
CM16	24.680		14.800	0.190
LR16	24.680		14.800	0.190
C17	29.699		18.142	0.240
CM17	29.699		18.142	0.240
LR17	29.692		18.142	0.240
C10	179.66		109.92	1.000
	82.024		107.57	1.000
	81.043		106.43	1.000
CM10	81.043		106.43	1.000
LR10	81.043		106.40	1.000
C9	100.91		66.988	0.860
CM9,10	173.82		173.39	1.860
LR9,10	173.82		173.29	1.860
C8A	21.557		14.021	0.180
CM8A	21.557		14.021	0.180
LR8A	21.555		14.021	0.180
C5	176.53		127.11	1.950
CM5	176.53		127.11	1.950
LR5	176.51		127.11	1.950
C6-Split	34.324		20.742	0.300
Conrail	164.30		147.85	2.250
C4	102.83		67.275	0.890
CM4,5	238.56		215.13	3.140
LR4,5	238.56		215.13	3.140
C1	217.52		146.44	1.880

Hydrologic Element	Discharge Peak (cfs)	Time of Peak	Volume (ac ft)	Drainage Area (sq mi)
CM1	217.52	02 Nov 01 0525	146.44	1.880
LR1	217.50	02 Nov 01 0625	146.44	1.880
C2	123.47	02 Nov 01 0630	91.914	1.180
CM1,2	340.87	02 Nov 01 0625	238.35	3.060
LR2	340.86	02 Nov 01 0725	238.35	3.060
C6	10.480	02 Nov 01 0515	6.9140	0.100
C3	122.64	02 Nov 01 0555	86.173	1.140
CM2,3,6	698.86	02 Nov 01 0705	546.57	7.440
LR6	698.78	02 Nov 01 0825	546.57	7.440
C8	63.439	02 Nov 01 0415	37.736	0.670
C7	163.84	02 Nov 01 0620	118.85	1.620
CM7,8	876.01	02 Nov 01 0755	717.18	9.910
LR8	876.01	02 Nov 01 0820	717.18	9.910
C11	17.431	02 Nov 01 0420	10.451	0.170
CM8,11	1032.7	02 Nov 01 0805	900.92	11.940
LR11	1032.7	02 Nov 01 0835	900.78	11.940
C12	20.630	02 Nov 01 0455	13.033	0.260
C13	71.627	02 Nov 01 0440	44.867	0.630
CM11,12,13	1077.0	02 Nov 01 0825	958.68	12.830
LR13	1076.9	02 Nov 01 0840	958.59	12.830
C14	121.84	02 Nov 01 0410	74.228	0.870
CM13,14	1118.7	02 Nov 01 0830	1032.8	13.700
LR14	1118.7	02 Nov 01 0855	1032.7	13.700
C18	24.889	02 Nov 01 0415	14.956	0.210
C15	73.987	02 Nov 01 0500	47.335	0.770
CM14-18	1183.9	02 Nov 01 0835	1127.9	15.110
LR18	1183.9	02 Nov 01 0845	1127.8	15.110
C24	53.588	02 Nov 01 0430	32.916	0.520
C19	18.910	02 Nov 01 0410	11.339	0.150
CM18,19,24	1382.5	02 Nov 01 0735	1339.1	17.980
LR24	1382.4	02 Nov 01 0805	1339.0	17.980
C25	57.450	02 Nov 01 0445	36.283	0.480
CM24,25	1413.6	02 Nov 01 0800	1375.3	18.460
LR25	1413.6	02 Nov 01 0820	1375.1	18.460
C26	34.392	02 Nov 01 0410	20.296	0.350
CM25,26	1426.1	02 Nov 01 0820	1395.4	18.810
LR26	1426.0	02 Nov 01 0850	1395.2	18.810
C27	43.414	02 Nov 01 0505	28.029	0.430
CM26,27	1447.8	02 Nov 01 0845	1423.2	19.240
LR27	1447.7	02 Nov 01 0900	1423.2	19.240
C29	36.311	02 Nov 01 0410	21.494	0.360
CM27,29	1467.1	02 Nov 01 0855	1463.9	19.840
LR29	1467.0	02 Nov 01 0935	1463.6	19.840
C30	102.26	02 Nov 01 0435	63.229	0.970
CM29,30	1497.4	02 Nov 01 0930	1526.9	20.810
LR30	1497.4	02 Nov 01 0940	1526.8	20.810
C31	32.062	02 Nov 01 0425	19.555	0.300
CM31	32.062	02 Nov 01 0425	19.555	0.300
LR31	32.057	02 Nov 01 0455	19.555	0.300
C32	59.916	02 Nov 01 0425	36.644	0.530
CM30,32	1523.9	02 Nov 01 0920	1583.0	21.640

Hydrologic Element	Discharge Peak (cfs)	Time of Peak	Volume (ac ft)	Drainage Area (sq mi)
LR32	1523.8	02 Nov 01 1000	1582.7	21.640
C33	31.129	02 Nov 01 0410	18.442	0.300
CM33	31.129	02 Nov 01 0410	18.442	0.300
LR33	31.127	02 Nov 01 0445	18.442	0.300
C34	54.689	02 Nov 01 0450	34.772	0.460
CM33,34	85.811	02 Nov 01 0445	53.214	0.760
LR34	85.806	02 Nov 01 0510	53.214	0.760
C35	50.796	02 Nov 01 0440	31.650	0.500
CM34,35	1570.8	02 Nov 01 0920	1667.5	22.900