

**HEC-HMS Simulation for Ralston Creek (July 1972 Flood)**

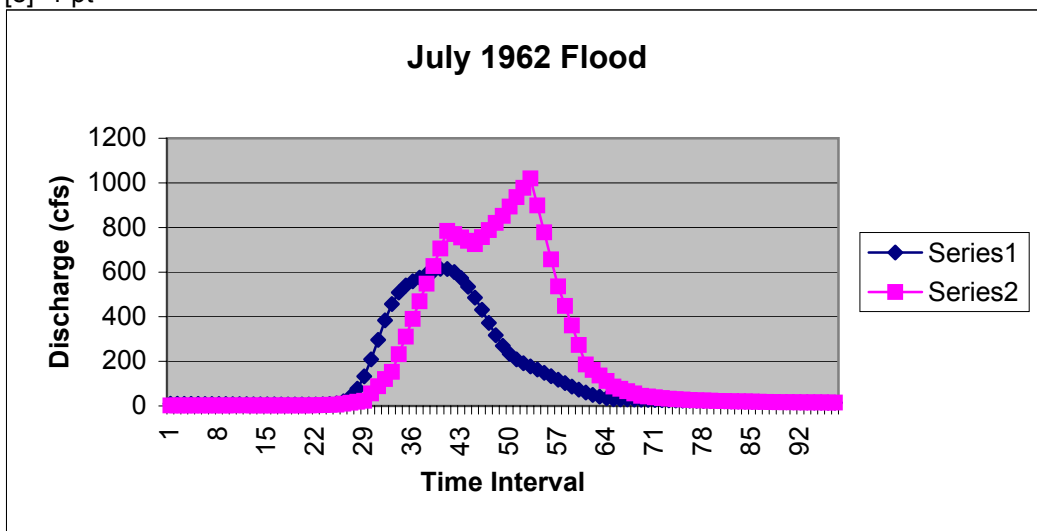
[a] 1 pt  
 $\phi =$   in/hr

[b] 1 pt  
 $t_r =$   min

[c] 1 pt  
Summary Table

[d] 1 pt  
Time-Series Table

[e] 1 pt



HMS \* Summary of Results for North Branch

[c]

Project : N. Ralston Creek                      Run Name : Run 1

Start of Run    : 13Jul62 1700    Basin Model    : N. Ralston Creek  
End of Run      : 14Jul62 1700    Met. Model    : 13-14 July 1962  
Execution Time : 06Apr04 1702    Control Specs : 13-14 July 1962

Computed Results

Peak Discharge        : 614.57 (cfs)    Date/Time of Peak Discharge : 14 Jul 62 0245  
Total Precipitation : 5.82 (in)        Total Direct Runoff : 1.50 (in)  
Total Loss            : 4.32 (in)        Total Baseflow        : 0.11 (in)  
Total Excess         : 1.50 (in)        Total Discharge       : 1.61 (in)

HMS \* Summary of Results for North Branch

[d]

Project : N. Ralston Creek

Run Name : Run 1

Start of Run : 13Jul62 1700 Basin Model : N. Ralston Creek

End of Run : 14Jul62 1700 Met. Model : 13-14 July 1962

Execution Time : 06Apr04 1702 Control Specs : 13-14 July 1962

Date	Time	Precip. (in)	Loss (in)	Excess (in)	Direct Q (cfs)	Base- flow (cfs)	Total Q (cfs)
13 Jul 62	1700				0.00	10.00	10.00
13 Jul 62	1715	0.00	0.00	0.00	0.00	9.76	9.76
13 Jul 62	1730	0.00	0.00	0.00	0.00	9.53	9.53
13 Jul 62	1745	0.00	0.00	0.00	0.00	9.31	9.31
13 Jul 62	1800	0.00	0.00	0.00	0.00	9.09	9.09
13 Jul 62	1815	0.01	0.01	0.00	0.00	8.87	8.87
13 Jul 62	1830	0.01	0.01	0.00	0.00	8.66	8.66
13 Jul 62	1845	0.01	0.01	0.00	0.00	8.45	8.45
13 Jul 62	1900	0.01	0.01	0.00	0.00	8.25	8.25
13 Jul 62	1915	0.00	0.00	0.00	0.00	8.06	8.06
13 Jul 62	1930	0.00	0.00	0.00	0.00	7.87	7.87
13 Jul 62	1945	0.00	0.00	0.00	0.00	7.68	7.68
13 Jul 62	2000	0.00	0.00	0.00	0.00	7.50	7.50
13 Jul 62	2015	0.00	0.00	0.00	0.00	7.32	7.32
13 Jul 62	2030	0.00	0.00	0.00	0.00	7.15	7.15
13 Jul 62	2045	0.00	0.00	0.00	0.00	6.98	6.98
13 Jul 62	2100	0.00	0.00	0.00	0.00	6.81	6.81
13 Jul 62	2115	0.01	0.01	0.00	0.00	6.65	6.65
13 Jul 62	2130	0.01	0.01	0.00	0.00	6.49	6.49
13 Jul 62	2145	0.01	0.01	0.00	0.00	6.34	6.34
13 Jul 62	2200	0.01	0.01	0.00	0.00	6.19	6.19
13 Jul 62	2215	0.16	0.15	0.01	0.29	6.04	6.33
13 Jul 62	2230	0.16	0.15	0.01	1.19	5.90	7.09
13 Jul 62	2245	0.16	0.15	0.01	2.93	5.76	8.69
13 Jul 62	2300	0.16	0.15	0.01	5.82	5.62	11.44
13 Jul 62	2315	0.33	0.15	0.18	15.10	5.49	20.59
13 Jul 62	2330	0.33	0.15	0.18	36.05	5.36	41.41
13 Jul 62	2345	0.33	0.15	0.18	71.95	5.23	77.18
13 Jul 62	2400	0.33	0.15	0.18	127.85	5.11	132.96
14 Jul 62	0015	0.16	0.15	0.02	203.94	4.99	208.93
14 Jul 62	0030	0.16	0.15	0.02	291.58	4.87	296.45
14 Jul 62	0045	0.16	0.15	0.02	378.67	4.75	383.43
14 Jul 62	0100	0.16	0.15	0.02	451.91	4.64	456.55
14 Jul 62	0115	0.29	0.15	0.14	503.86	4.53	508.40
14 Jul 62	0130	0.29	0.15	0.14	535.62	4.42	540.04
14 Jul 62	0145	0.29	0.15	0.14	554.69	4.32	559.00
14 Jul 62	0200	0.29	0.15	0.14	571.08	4.22	575.29
14 Jul 62	0215	0.15	0.15	0.00	587.15	4.12	591.27
14 Jul 62	0230	0.15	0.15	0.00	600.98	4.02	605.00
14 Jul 62	0245	0.15	0.15	0.00	610.65	3.92	614.57
14 Jul 62	0300	0.15	0.15	0.00	610.41	3.83	614.24

Date	Time	Precip. (in)	Loss (in)	Excess (in)	Direct Q (cfs)	Base- flow (cfs)	Total Q (cfs)
14 Jul 62	0315	0.14	0.14	0.00	596.32	3.74	600.06
14 Jul 62	0330	0.14	0.14	0.00	569.46	3.65	573.11
14 Jul 62	0345	0.14	0.14	0.00	530.49	3.57	534.06
14 Jul 62	0400	0.14	0.14	0.00	482.34	3.48	485.82
14 Jul 62	0415	0.17	0.15	0.02	427.35	3.40	430.75
14 Jul 62	0430	0.17	0.15	0.02	368.99	3.32	372.31
14 Jul 62	0445	0.17	0.15	0.02	314.06	3.24	317.30
14 Jul 62	0500	0.17	0.15	0.02	266.65	3.16	269.81
14 Jul 62	0515	0.03	0.03	0.00	230.34	3.09	233.43
14 Jul 62	0530	0.03	0.03	0.00	206.00	3.01	209.01
14 Jul 62	0545	0.03	0.03	0.00	188.56	2.94	191.50
14 Jul 62	0600	0.03	0.03	0.00	174.29	2.87	177.16
14 Jul 62	0615	0.00	0.00	0.00	160.60	2.80	163.41
14 Jul 62	0630	0.00	0.00	0.00	145.77	2.74	148.51
14 Jul 62	0645	0.00	0.00	0.00	130.51	2.67	133.18
14 Jul 62	0700	0.00	0.00	0.00	115.16	2.61	117.77
14 Jul 62	0715	0.00	0.00	0.00	99.76	2.55	102.30
14 Jul 62	0730	0.00	0.00	0.00	84.57	2.49	87.06
14 Jul 62	0745	0.00	0.00	0.00	70.43	2.43	72.85
14 Jul 62	0800	0.00	0.00	0.00	57.93	2.37	60.30
14 Jul 62	0815	0.00	0.00	0.00	47.37	2.32	49.69
14 Jul 62	0830	0.00	0.00	0.00	39.10	2.26	41.36
14 Jul 62	0845	0.00	0.00	0.00	32.33	2.21	34.53
14 Jul 62	0900	0.00	0.00	0.00	26.62	3.86	30.48
14 Jul 62	0915	0.00	0.00	0.00	21.88	7.87	29.76
14 Jul 62	0930	0.00	0.00	0.00	17.76	11.29	29.05
14 Jul 62	0945	0.00	0.00	0.00	14.39	13.97	28.36
14 Jul 62	1000	0.00	0.00	0.00	11.70	16.00	27.69
14 Jul 62	1015	0.00	0.00	0.00	9.54	17.49	27.04
14 Jul 62	1030	0.00	0.00	0.00	7.84	18.55	26.39
14 Jul 62	1045	0.00	0.00	0.00	6.41	19.36	25.77
14 Jul 62	1100	0.00	0.00	0.00	5.18	19.98	25.16
14 Jul 62	1115	0.00	0.00	0.00	4.10	20.46	24.56
14 Jul 62	1130	0.00	0.00	0.00	3.17	20.81	23.98
14 Jul 62	1145	0.00	0.00	0.00	2.38	21.03	23.41
14 Jul 62	1200	0.00	0.00	0.00	1.77	21.09	22.86
14 Jul 62	1215	0.00	0.00	0.00	1.33	20.99	22.31
14 Jul 62	1230	0.00	0.00	0.00	1.04	20.74	21.79
14 Jul 62	1245	0.00	0.00	0.00	0.86	20.41	21.27
14 Jul 62	1300	0.00	0.00	0.00	0.72	20.04	20.77
14 Jul 62	1315	0.00	0.00	0.00	0.61	19.66	20.27
14 Jul 62	1330	0.00	0.00	0.00	0.51	19.28	19.79
14 Jul 62	1345	0.00	0.00	0.00	0.42	18.91	19.32
14 Jul 62	1400	0.00	0.00	0.00	0.33	18.54	18.87
14 Jul 62	1415	0.00	0.00	0.00	0.24	18.18	18.42
14 Jul 62	1430	0.00	0.00	0.00	0.16	17.82	17.98
14 Jul 62	1445	0.00	0.00	0.00	0.09	17.47	17.56
14 Jul 62	1500	0.00	0.00	0.00	0.04	17.10	17.14
14 Jul 62	1515	0.00	0.00	0.00	0.01	16.72	16.73
14 Jul 62	1530	0.00	0.00	0.00	0.00	16.33	16.33
14 Jul 62	1545	0.00	0.00	0.00	0.00	15.94	15.94

Date	Time	Precip. (in)	Loss (in)	Excess (in)	Direct Q (cfs)	Base- flow (cfs)	Total Q (cfs)
14 Jul 62	1600	0.00	0.00	0.00	0.00	15.56	15.56
14 Jul 62	1615	0.00	0.00	0.00	0.00	15.19	15.19
14 Jul 62	1630	0.00	0.00	0.00	0.00	14.83	14.83
14 Jul 62	1645	0.00	0.00	0.00	0.00	14.48	14.48
14 Jul 62	1700	0.00	0.00	0.00	0.00	14.14	14.14