

Reach 3R: Existing Stream Bed

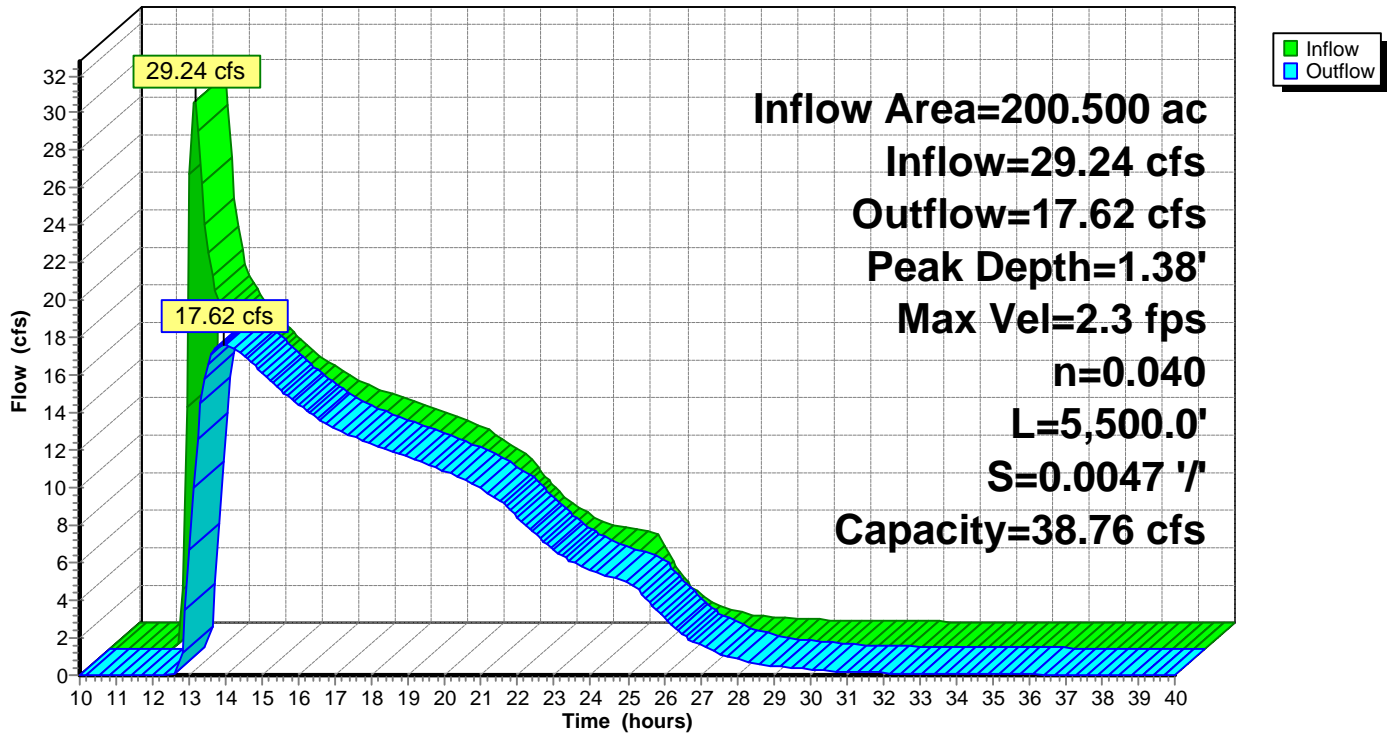
Inflow Area = 200.500 ac, Inflow Depth = 0.72" for 25-Year event
Inflow = 29.24 cfs @ 12.32 hrs, Volume= 12.096 af
Outflow = 17.62 cfs @ 13.93 hrs, Volume= 12.085 af, Atten= 40%, Lag= 96.4 min

Routing by Stor-Ind+Trans method, Time Span= 10.00-40.00 hrs, dt= 0.10 hrs
Max. Velocity= 2.3 fps, Min. Travel Time= 39.7 min
Avg. Velocity = 1.2 fps, Avg. Travel Time= 75.0 min

Peak Depth= 1.38' @ 13.26 hrs
Capacity at bank full= 38.76 cfs
Inlet Invert= 48.00', Outlet Invert= 22.00'
10.00' x 2.00' deep Parabolic Channel, n= 0.040 Length= 5,500.0' Slope= 0.0047 '/'

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Hydrograph



Hydrograph for Reach 3R: Existing Stream Bed

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)
10.00	0.00	0	48.00	0.00
10.50	0.00	0	48.00	0.00
11.00	0.00	0	48.00	0.00
11.50	0.00	0	48.00	0.00
12.00	3.18	689	48.09	0.00
12.50	24.89	31,690	49.14	0.00
13.00	18.55	41,499	49.37	6.76
13.50	17.03	41,752	49.37	16.62
14.00	15.96	40,547	49.35	17.61
14.50	14.93	38,938	49.31	17.05
15.00	14.17	37,404	49.28	16.15
15.50	13.48	36,051	49.25	15.23
16.00	12.97	34,880	49.22	14.44
16.50	12.53	33,907	49.20	13.75
17.00	12.19	33,115	49.18	13.18
17.50	11.86	32,441	49.16	12.72
18.00	11.52	31,792	49.15	12.34
18.50	11.15	31,129	49.13	11.99
19.00	10.78	30,438	49.11	11.64
19.50	10.35	29,709	49.09	11.29
20.00	9.73	28,776	49.07	10.91
20.50	9.12	27,667	49.04	10.48
21.00	8.09	26,312	49.01	9.94
21.50	6.97	24,329	48.96	9.34
22.00	6.19	22,368	48.91	8.44
22.50	5.60	20,680	48.86	7.48
23.00	5.25	19,366	48.82	6.67
23.50	5.04	18,438	48.80	6.03
24.00	4.90	17,798	48.78	5.58
24.50	3.74	16,840	48.75	5.28
25.00	2.17	14,250	48.67	5.00
25.50	1.32	11,448	48.58	4.14
26.00	0.84	9,103	48.50	3.07
26.50	0.56	7,273	48.43	2.22
27.00	0.39	5,879	48.37	1.60
27.50	0.29	4,816	48.33	1.17
28.00	0.21	4,000	48.29	0.87
28.50	0.17	3,365	48.26	0.67
29.00	0.13	2,869	48.23	0.52
29.50	0.11	2,472	48.21	0.41
30.00	0.09	2,147	48.19	0.33
30.50	0.08	1,882	48.17	0.27
31.00	0.07	1,668	48.16	0.22
31.50	0.06	1,490	48.15	0.18
32.00	0.05	1,341	48.14	0.16
32.50	0.04	1,213	48.13	0.13
33.00	0.04	1,103	48.12	0.12
33.50	0.03	1,007	48.11	0.10
34.00	0.03	922	48.11	0.09
34.50	0.03	846	48.10	0.08
35.00	0.02	779	48.10	0.07
35.50	0.02	719	48.09	0.06
36.00	0.02	664	48.09	0.05
36.50	0.02	617	48.08	0.05
37.00	0.02	577	48.08	0.04
37.50	0.02	542	48.08	0.04
38.00	0.02	510	48.07	0.04
38.50	0.01	482	48.07	0.03
39.00	0.01	457	48.07	0.03
39.50	0.01	435	48.07	0.03
40.00	0.01	415	48.06	0.03