

**Subcatchment 11S: Old Orchard**

Runoff = 18.56 cfs @ 12.15 hrs, Volume= 1.903 af, Depth= 0.91"

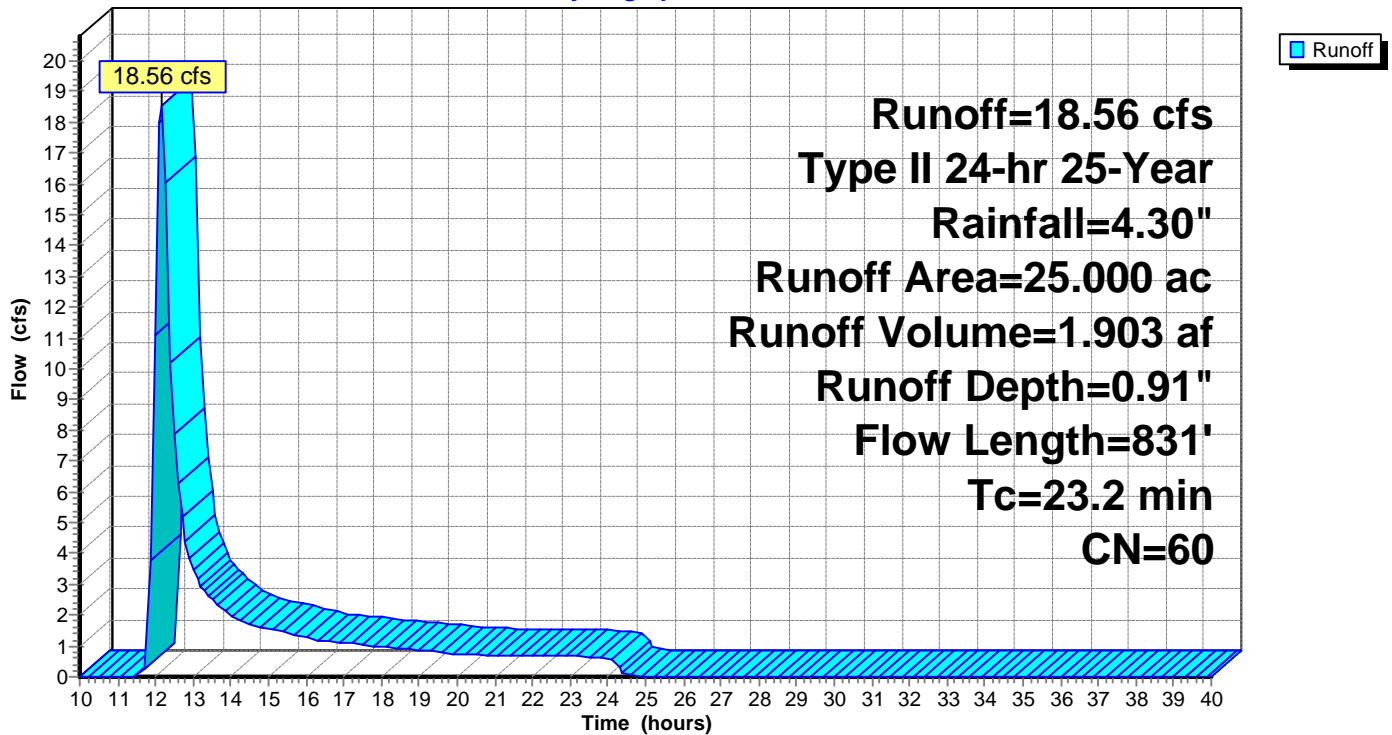
Runoff by SCS TR-20 method, UH=SCS, Time Span= 10.00-40.00 hrs, dt= 0.10 hrs  
 Type II 24-hr 25-Year Rainfall=4.30"

Area (ac)	CN	Description
12.500	58	Woods/grass comb., Good, HSG B
7.400	65	Woods/grass comb., Fair, HSG B
5.100	60	Woods, Fair, HSG B
25.000	60	Weighted Average

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.1	100	0.0250	0.1		<b>Sheet Flow, Segment ID: AB</b> Woods: Light underbrush n= 0.400 P2= 3.40"
3.0	350	0.0150	2.0		<b>Shallow Concentrated Flow, Segment ID: BC</b> Unpaved Kv= 16.1 fps
1.0	321	0.0125	5.6	22.32	<b>Parabolic Channel, Grassed Swale</b> W=4.00' D=1.50' Area=4.0 sf Perim=5.2' n= 0.025
0.1	60	0.0100	7.2	22.62	<b>Circular Channel (pipe), Driveway Culvert</b> Diam= 24.0" Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
23.2	831	Total			

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Hydrograph



**Mountain View Housing Complex Rev. E**

Prepared by Applied Microcomputer Systems

HydroCAD® 7.00 s/n 000438 © 1986-2003 Applied Microcomputer Systems

Type II 24-hr 25-Year Rainfall=4.30"

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**Hydrograph for Subcatchment 11S: Old Orchard**

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.00	0.78	0.00	0.00	22.40	4.22	0.87	0.66	34.80	4.30	0.91	0.00
10.20	0.81	0.00	0.00	22.60	4.23	0.88	0.66	35.00	4.30	0.91	0.00
10.40	0.86	0.00	0.00	22.80	4.24	0.88	0.65	35.20	4.30	0.91	0.00
10.60	0.90	0.00	0.00	23.00	4.25	0.89	0.65	35.40	4.30	0.91	0.00
10.80	0.95	0.00	0.00	23.20	4.26	0.89	0.65	35.60	4.30	0.91	0.00
11.00	1.01	0.00	0.00	23.40	4.27	0.90	0.64	35.80	4.30	0.91	0.00
11.20	1.08	0.00	0.00	23.60	4.28	0.90	0.64	36.00	4.30	0.91	0.00
11.40	1.17	0.00	0.00	23.80	4.29	0.91	0.63	36.20	4.30	0.91	0.00
11.60	1.32	0.00	0.00	24.00	<b>4.30</b>	<b>0.91</b>	0.63	36.40	4.30	0.91	0.00
11.80	1.85	0.04	0.73	24.20	4.30	0.91	0.45	36.60	4.30	0.91	0.00
12.00	2.85	0.28	11.08	24.40	4.30	0.91	0.15	36.80	4.30	0.91	0.00
12.20	3.00	0.33	<b>18.08</b>	24.60	4.30	0.91	0.04	37.00	4.30	0.91	0.00
12.40	3.12	0.38	10.19	24.80	4.30	0.91	0.01	37.20	4.30	0.91	0.00
12.60	3.20	0.41	6.30	25.00	4.30	0.91	0.00	37.40	4.30	0.91	0.00
12.80	3.26	0.43	4.37	25.20	4.30	0.91	0.00	37.60	4.30	0.91	0.00
13.00	3.32	0.46	3.49	25.40	4.30	0.91	0.00	37.80	4.30	0.91	0.00
13.20	3.37	0.48	2.95	25.60	4.30	0.91	0.00	38.00	4.30	0.91	0.00
13.40	3.41	0.50	2.63	25.80	4.30	0.91	0.00	38.20	4.30	0.91	0.00
13.60	3.46	0.51	2.39	26.00	4.30	0.91	0.00	38.40	4.30	0.91	0.00
13.80	3.49	0.53	2.18	26.20	4.30	0.91	0.00	38.60	4.30	0.91	0.00
14.00	3.53	0.54	2.00	26.40	4.30	0.91	0.00	38.80	4.30	0.91	0.00
14.20	3.56	0.56	1.84	26.60	4.30	0.91	0.00	39.00	4.30	0.91	0.00
14.40	3.59	0.57	1.74	26.80	4.30	0.91	0.00	39.20	4.30	0.91	0.00
14.60	3.62	0.58	1.67	27.00	4.30	0.91	0.00	39.40	4.30	0.91	0.00
14.80	3.64	0.59	1.61	27.20	4.30	0.91	0.00	39.60	4.30	0.91	0.00
15.00	3.67	0.61	1.56	27.40	4.30	0.91	0.00	39.80	4.30	0.91	0.00
15.20	3.70	0.62	1.50	27.60	4.30	0.91	0.00	40.00	4.30	0.91	0.00
15.40	3.72	0.63	1.44	27.80	4.30	0.91	0.00				
15.60	3.74	0.64	1.38	28.00	4.30	0.91	0.00				
15.80	3.76	0.65	1.32	28.20	4.30	0.91	0.00				
16.00	3.78	0.66	1.26	28.40	4.30	0.91	0.00				
16.20	3.80	0.67	1.20	28.60	4.30	0.91	0.00				
16.40	3.82	0.68	1.16	28.80	4.30	0.91	0.00				
16.60	3.84	0.69	1.13	29.00	4.30	0.91	0.00				
16.80	3.86	0.69	1.11	29.20	4.30	0.91	0.00				
17.00	3.88	0.70	1.09	29.40	4.30	0.91	0.00				
17.20	3.89	0.71	1.07	29.60	4.30	0.91	0.00				
17.40	3.91	0.72	1.05	29.80	4.30	0.91	0.00				
17.60	3.93	0.73	1.03	30.00	4.30	0.91	0.00				
17.80	3.94	0.73	1.00	30.20	4.30	0.91	0.00				
18.00	3.96	0.74	0.98	30.40	4.30	0.91	0.00				
18.20	3.98	0.75	0.96	30.60	4.30	0.91	0.00				
18.40	3.99	0.76	0.94	30.80	4.30	0.91	0.00				
18.60	4.00	0.76	0.91	31.00	4.30	0.91	0.00				
18.80	4.02	0.77	0.89	31.20	4.30	0.91	0.00				
19.00	4.03	0.78	0.87	31.40	4.30	0.91	0.00				
19.20	4.05	0.78	0.84	31.60	4.30	0.91	0.00				
19.40	4.06	0.79	0.82	31.80	4.30	0.91	0.00				
19.60	4.07	0.80	0.79	32.00	4.30	0.91	0.00				
19.80	4.08	0.80	0.77	32.20	4.30	0.91	0.00				
20.00	4.09	0.81	0.74	32.40	4.30	0.91	0.00				
20.20	4.10	0.81	0.72	32.60	4.30	0.91	0.00				
20.40	4.12	0.82	0.71	32.80	4.30	0.91	0.00				
20.60	4.13	0.82	0.70	33.00	4.30	0.91	0.00				
20.80	4.14	0.83	0.70	33.20	4.30	0.91	0.00				
21.00	4.15	0.84	0.69	33.40	4.30	0.91	0.00				
21.20	4.16	0.84	0.69	33.60	4.30	0.91	0.00				
21.40	4.17	0.85	0.68	33.80	4.30	0.91	0.00				
21.60	4.18	0.85	0.68	34.00	4.30	0.91	0.00				
21.80	4.19	0.86	0.68	34.20	4.30	0.91	0.00				
22.00	4.20	0.86	0.67	34.40	4.30	0.91	0.00				
22.20	4.21	0.87	0.67	34.60	4.30	0.91	0.00				