

\*\*\*\*\*

FLOOD ROUTING ANALYSIS  
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)  
(c) Copyright 1989-2013 Advanced Engineering Software (aes)  
Ver. 20.0 Release Date: 06/01/2013 License ID 1237

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*  
\* RMV PA-3 BODR 2022 - NODE 133C \*  
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*  
\* 100-YR EV JULY 2022 ROKAMOTO \*  
\*\*\*\*\*

FILE NAME: EV0033CS.DAT  
TIME/DATE OF STUDY: 13:43 07/24/2022

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 133.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<

=====

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 61055.801 ACRES  
BASEFLOW = 0.000 CFS/SQUARE-MILE  
\*USER ENTERED "LAG" TIME = 2.284 HOURS  
VALLEY (DEVELOPED) S-GRAPH SELECTED  
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.285  
LOW LOSS FRACTION = 0.392  
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.49  
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.94  
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 1.29  
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 2.38  
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 3.53  
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 6.15

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:  
5-MINUTE FACTOR = 0.308  
30-MINUTE FACTOR = 0.363  
1-HOUR FACTOR = 0.408  
3-HOUR FACTOR = 0.754  
6-HOUR FACTOR = 0.891  
24-HOUR FACTOR = 0.936

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES  
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 3.649

UNIT HYDROGRAPH DETERMINATION

INTERVAL NUMBER	"S" GRAPH MEAN VALUES	UNIT HYDROGRAPH ORDINATES (CFS)
1	0.208	1539.474
2	0.625	3078.951
3	1.042	3078.947
4	1.459	3078.951
5	1.881	3112.244
6	2.446	4175.918
7	3.081	4685.354
8	3.716	4690.619
9	4.644	6851.348
10	5.833	8777.215
11	7.289	10750.221
12	9.045	12965.209
13	10.929	13911.390
14	12.753	13470.414
15	14.934	16101.777
16	17.228	16943.795
17	19.175	14378.667
18	21.416	16540.746
19	24.064	19557.539
20	26.227	15968.961
21	28.488	16693.906
22	31.141	19594.834
23	34.214	22688.088
24	36.791	19030.201
25	39.597	20714.928
26	42.983	25000.666
27	46.321	24652.094
28	50.092	27846.115
29	52.897	20707.520
30	55.439	18768.977
31	58.279	20973.814
32	61.795	25957.965
33	64.831	22422.777
34	67.305	18263.004
35	69.980	19752.670
36	72.245	16726.412
37	74.564	17123.631
38	76.581	14897.272
39	78.209	12017.768
40	79.838	12028.077
41	81.533	12514.304
42	83.123	11738.571
43	84.596	10876.872
44	85.954	10029.988
45	87.111	8545.788
46	88.168	7800.702
47	89.037	6422.129
48	89.889	6290.756

49	90.675	5800.642
50	91.443	5672.142
51	92.189	5509.052
52	92.886	5145.466
53	93.581	5132.622
54	94.183	4442.800
55	94.647	3428.996
56	95.111	3423.081
57	95.574	3421.053
58	96.007	3199.713
59	96.309	2227.372
60	96.596	2114.702
61	96.882	2112.730
62	97.168	2112.730
63	97.454	2112.674
64	97.740	2112.730
65	97.988	1832.125
66	98.075	640.303
67	98.143	503.973
68	98.212	505.944
69	98.280	505.944
70	98.349	505.944
71	98.417	502.001
72	98.485	502.001
73	98.553	505.944
74	98.622	505.944
75	98.690	505.944
76	98.759	505.944
77	98.827	502.001
78	98.895	505.944
79	98.964	505.944
80	99.032	502.001
81	99.100	502.001
82	99.168	502.001
83	99.236	502.001
84	99.304	502.001
85	99.372	502.001
86	99.440	502.001
87	99.508	502.001
88	99.576	502.001
89	99.644	502.001
90	99.712	502.001
91	99.780	502.001
92	99.848	502.001
93	99.916	502.001
94	99.984	502.001
95	100.000	121.571

-----  
TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 11310.9023  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 17994.4492  
-----

=====

2 4 - 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 FIVE-MINUTE UNIT INTERVALS (CFS)  
(Note: Time indicated is at END of Each Unit Intervals)

TIME (HRS)	VOLUME (AF)	Q (CFS)	0.	5450.0	10900.0	16350.0	21800.0
0.083	0.0564	8.19	Q	.	.	.	.
0.167	0.2257	24.58	Q	.	.	.	.
0.250	0.5081	41.02	Q	.	.	.	.
0.333	0.9042	57.51	Q	.	.	.	.
0.417	1.4153	74.22	Q	.	.	.	.
0.500	2.0809	96.64	Q	.	.	.	.
0.583	2.9200	121.83	Q	.	.	.	.
0.667	3.9333	147.13	Q	.	.	.	.
0.750	5.2005	184.00	Q	.	.	.	.
0.833	6.7928	231.20	Q	.	.	.	.
0.917	8.7835	289.05	Q	.	.	.	.
1.000	11.2548	358.83	Q	.	.	.	.
1.083	14.2428	433.86	Q	.	.	.	.
1.167	17.7330	506.77	Q	.	.	.	.
1.250	21.8232	593.90	VQ	.	.	.	.
1.333	26.5459	685.75	VQ	.	.	.	.
1.417	31.8094	764.25	VQ	.	.	.	.
1.500	37.6944	854.50	VQ	.	.	.	.
1.583	44.3132	961.06	VQ	.	.	.	.
1.667	51.5368	1048.86	VQ	.	.	.	.
1.750	59.3936	1140.81	V Q	.	.	.	.
1.833	67.9917	1248.44	V Q	.	.	.	.
1.917	77.4468	1372.89	V Q	.	.	.	.
2.000	87.6274	1478.23	V Q	.	.	.	.
2.083	98.5979	1592.92	V Q	.	.	.	.
2.167	110.5174	1730.70	V Q	.	.	.	.
2.250	123.3763	1867.11	V Q	.	.	.	.
2.333	137.2943	2020.90	V Q	.	.	.	.
2.417	152.0135	2137.22	V Q	.	.	.	.
2.500	167.4655	2243.64	V Q	.	.	.	.
2.583	183.7336	2362.12	V Q	.	.	.	.
2.667	201.0029	2507.50	V Q	.	.	.	.
2.750	219.1470	2634.53	V Q	.	.	.	.
2.833	238.0168	2739.89	V Q	.	.	.	.
2.917	257.6692	2853.52	V Q	.	.	.	.
3.000	277.9959	2951.45	V Q	.	.	.	.
3.083	299.0141	3051.84	V Q	.	.	.	.
3.167	320.6445	3140.73	V Q	.	.	.	.
3.250	342.7839	3214.65	V Q	.	.	.	.
3.333	365.4347	3288.89	V Q	.	.	.	.
3.417	388.6166	3366.01	V Q	.	.	.	.
3.500	412.3031	3439.29	V Q	.	.	.	.
3.583	436.4648	3508.27	V Q	.	.	.	.
3.667	461.0724	3573.03	.V Q	.	.	.	.
3.750	486.0735	3630.15	.V Q	.	.	.	.
3.833	511.4423	3683.56	.V Q	.	.	.	.
3.917	537.1301	3729.87	.V Q	.	.	.	.

4.000	563.1335	3775.70	.V	Q	.	.	.	.
4.083	589.4360	3819.13	.V	Q	.	.	.	.
4.167	616.0345	3862.09	.V	Q	.	.	.	.
4.250	642.9243	3904.39	.V	Q	.	.	.	.
4.333	670.0935	3944.98	.V	Q	.	.	.	.
4.417	697.5432	3985.69	.V	Q	.	.	.	.
4.500	725.2495	4022.95	.V	Q	.	.	.	.
4.583	753.1766	4055.02	.V	Q	.	.	.	.
4.667	781.3257	4087.25	.V	Q	.	.	.	.
4.750	809.6980	4119.65	.V	Q	.	.	.	.
4.833	838.2867	4151.08	.V	Q	.	.	.	.
4.917	867.0574	4177.51	.V	Q	.	.	.	.
5.000	896.0075	4203.55	.V	Q	.	.	.	.
5.083	925.1379	4229.74	.V	Q	.	.	.	.
5.167	954.4501	4256.12	.V	Q	.	.	.	.
5.250	983.9451	4282.67	.V	Q	.	.	.	.
5.333	1013.6243	4309.43	.V	Q	.	.	.	.
5.417	1043.4789	4334.88	.V	Q	.	.	.	.
5.500	1073.4664	4354.18	.V	Q	.	.	.	.
5.583	1103.5831	4372.94	.V	Q	.	.	.	.
5.667	1133.8302	4391.88	.V	Q	.	.	.	.
5.750	1164.2090	4410.99	.V	Q	.	.	.	.
5.833	1194.7206	4430.29	.V	Q	.	.	.	.
5.917	1225.3662	4449.75	.V	Q	.	.	.	.
6.000	1256.1472	4469.40	.V	Q	.	.	.	.
6.083	1287.0649	4489.26	.V	Q	.	.	.	.
6.167	1318.1208	4509.31	.V	Q	.	.	.	.
6.250	1349.3162	4529.56	.V	Q	.	.	.	.
6.333	1380.6523	4550.01	.V	Q	.	.	.	.
6.417	1412.1306	4570.64	.V	Q	.	.	.	.
6.500	1443.7526	4591.51	.V	Q	.	.	.	.
6.583	1475.5197	4612.58	.V	Q	.	.	.	.
6.667	1507.4332	4633.85	.V	Q	.	.	.	.
6.750	1539.4948	4655.33	.V	Q	.	.	.	.
6.833	1571.7058	4677.05	.V	Q	.	.	.	.
6.917	1604.0680	4698.99	.V	Q	.	.	.	.
7.000	1636.5829	4721.16	.V	Q	.	.	.	.
7.083	1669.2521	4743.56	.V	Q	.	.	.	.
7.167	1702.0773	4766.21	.V	Q	.	.	.	.
7.250	1735.0601	4789.11	.V	Q	.	.	.	.
7.333	1768.2023	4812.25	.V	Q	.	.	.	.
7.417	1801.5056	4835.65	.V	Q	.	.	.	.
7.500	1834.9719	4859.31	.V	Q	.	.	.	.
7.583	1868.6030	4883.23	.V	Q	.	.	.	.
7.667	1902.4008	4907.43	.V	Q	.	.	.	.
7.750	1936.3669	4931.89	.V	Q	.	.	.	.
7.833	1970.5037	4956.65	.V	Q	.	.	.	.
7.917	2004.7988	4979.67	.V	Q	.	.	.	.
8.000	2039.2501	5002.33	.V	Q	.	.	.	.
8.083	2073.8594	5025.28	.V	Q	.	.	.	.
8.167	2108.6289	5048.53	.V	Q	.	.	.	.
8.250	2143.5605	5072.08	.V	Q	.	.	.	.
8.333	2178.6567	5095.95	.V	Q	.	.	.	.
8.417	2213.9194	5120.13	.V	Q	.	.	.	.
8.500	2249.3508	5144.65	.V	Q	.	.	.	.
8.583	2284.9534	5169.49	.V	Q	.	.	.	.
8.667	2320.7292	5194.67	.V	Q	.	.	.	.
8.750	2356.6812	5220.21	.V	Q	.	.	.	.

8.833	2392.8113	5246.09	.	V	Q	.	.	.
8.917	2429.1221	5272.34	.	V	Q	.	.	.
9.000	2465.6165	5298.97	.	V	Q	.	.	.
9.083	2502.2966	5325.98	.	V	Q	.	.	.
9.167	2539.1655	5353.38	.	V	Q	.	.	.
9.250	2576.2258	5381.17	.	V	Q	.	.	.
9.333	2613.4805	5409.39	.	V	Q	.	.	.
9.417	2650.9324	5438.01	.	V	Q	.	.	.
9.500	2688.5845	5467.08	.	V	Q	.	.	.
9.583	2726.4397	5496.58	.	V	Q	.	.	.
9.667	2764.5012	5526.54	.	V	Q	.	.	.
9.750	2802.7722	5556.96	.	V	Q	.	.	.
9.833	2841.2561	5587.87	.	V	Q	.	.	.
9.917	2879.9563	5619.25	.	V	Q	.	.	.
10.000	2918.8760	5651.15	.	V	Q	.	.	.
10.083	2958.0190	5683.56	.	V	Q	.	.	.
10.167	2997.3889	5716.50	.	V	Q	.	.	.
10.250	3036.9895	5749.99	.	V	Q	.	.	.
10.333	3076.8245	5784.04	.	V	Q	.	.	.
10.417	3116.8979	5818.66	.	V	Q	.	.	.
10.500	3157.2139	5853.89	.	V	Q	.	.	.
10.583	3197.7766	5889.72	.	V	Q	.	.	.
10.667	3238.5906	5926.17	.	V	Q	.	.	.
10.750	3279.6599	5963.28	.	V	Q	.	.	.
10.833	3320.9895	6001.05	.	V	.Q	.	.	.
10.917	3362.5840	6039.51	.	V	.Q	.	.	.
11.000	3404.4482	6078.67	.	V	.Q	.	.	.
11.083	3446.5872	6118.57	.	V	.Q	.	.	.
11.167	3489.0061	6159.22	.	V	.Q	.	.	.
11.250	3531.7102	6200.64	.	V	.Q	.	.	.
11.333	3574.7051	6242.87	.	V	.Q	.	.	.
11.417	3617.9966	6285.93	.	V	.Q	.	.	.
11.500	3661.5906	6329.84	.	V	.Q	.	.	.
11.583	3705.4932	6374.64	.	V	.Q	.	.	.
11.667	3749.7104	6420.35	.	V	.Q	.	.	.
11.750	3794.2490	6467.01	.	V	.Q	.	.	.
11.833	3839.1157	6514.66	.	V	.Q	.	.	.
11.917	3884.3176	6563.32	.	V	.Q	.	.	.
12.000	3929.8618	6613.03	.	V	.Q	.	.	.
12.083	3975.8601	6678.95	.	V	.Q	.	.	.
12.167	4022.4238	6761.05	.	V	.Q	.	.	.
12.250	4069.5601	6844.17	.	V	.Q	.	.	.
12.333	4117.2759	6928.34	.	V	.Q	.	.	.
12.417	4165.5811	7013.94	.	V	.Q	.	.	.
12.500	4214.5557	7111.10	.	V	.Q	.	.	.
12.583	4264.2417	7214.41	.	V	.Q	.	.	.
12.667	4314.6475	7318.90	.	V	.Q	.	.	.
12.750	4365.9272	7445.80	.	V	.Q	.	.	.
12.833	4418.2188	7592.73	.	V	.Q	.	.	.
12.917	4471.6631	7760.13	.	V	.Q	.	.	.
13.000	4526.4170	7950.29	.	V	Q	.	.	.
13.083	4582.5513	8150.70	.	V	Q	.	.	.
13.167	4640.0425	8347.72	.	V	Q	.	.	.
13.250	4699.0752	8571.55	.	V	Q	.	.	.
13.333	4759.7129	8804.61	.	V	Q	.	.	.
13.417	4821.7886	9013.36	.	V	Q	.	.	.
13.500	4885.4551	9244.40	.	V	Q	.	.	.
13.583	4950.9243	9506.11	.	.V	Q	.	.	.

13.667	5017.9595	9733.52	.	.V	Q	.	.	.
13.750	5086.6172	9969.12	.	.V	Q	.	.	.
13.833	5157.1021	10234.43	.	.V	Q	.	.	.
13.917	5229.6304	10531.15	.	.V	Q.	.	.	.
14.000	5303.9624	10793.01	.	.V	Q.	.	.	.
14.083	5380.3179	11086.83	.	.V	Q	.	.	.
14.167	5459.0923	11438.05	.	.V	Q	.	.	.
14.250	5540.2603	11785.60	.	.V	.Q	.	.	.
14.333	5624.0381	12164.51	.	.V	.Q	.	.	.
14.417	5709.9429	12473.38	.	.V	.Q	.	.	.
14.500	5797.9126	12773.20	.	.V	.Q	.	.	.
14.583	5888.1289	13099.42	.	.V	.Q	.	.	.
14.667	5980.9258	13474.09	.	.V	.Q	.	.	.
14.750	6076.1992	13833.67	.	.V	.Q	.	.	.
14.833	6173.7827	14169.10	.	.V	.Q	.	.	.
14.917	6273.8916	14535.78	.	.V	.Q	.	.	.
15.000	6376.4453	14890.81	.	.V	.Q	.	.	.
15.083	6481.5078	15255.10	.	.V	.Q	.	.	.
15.167	6588.8730	15589.43	.	.V	.Q	.	.	.
15.250	6698.4868	15915.93	.	.V	.Q	.	.	.
15.333	6810.3726	16245.80	.	.V	.Q	.	.	.
15.417	6924.2246	16531.32	.	.V	.Q	.	.	.
15.500	7039.9722	16806.56	.	.V	.Q	.	.	.
15.583	7157.7427	17100.29	.	.V	.Q	.	.	.
15.667	7277.2344	17350.18	.	.V	.Q	.	.	.
15.750	7398.3242	17582.26	.	.V	.Q	.	.	.
15.833	7521.0063	17813.44	.	.V	.Q	.	.	.
15.917	7645.3965	18061.44	.	.V	.Q	.	.	.
16.000	7771.3843	18293.41	.	.V	.Q	.	.	.
16.083	7899.8984	18660.25	.	.V	.Q	.	.	.
16.167	8030.8530	19014.61	.	.V	.Q	.	.	.
16.250	8162.8921	19172.04	.	.V	.Q	.	.	.
16.333	8296.0361	19332.47	.	.V	.Q	.	.	.
16.417	8429.8770	19433.62	.	.V	.Q	.	.	.
16.500	8565.0869	19632.49	.	.V	.Q	.	.	.
16.583	8701.1475	19756.06	.	.V	.Q	.	.	.
16.667	8838.1230	19888.86	.	.V	.Q	.	.	.
16.750	8977.5947	20251.28	.	.V	.Q	.	.	.
16.833	9119.0518	20539.62	.	.V	.Q	.	.	.
16.917	9262.2480	20792.09	.	.V	.Q	.	.	.
17.000	9407.2930	21060.52	.	.V	.Q	.	.	.
17.083	9553.3701	21210.38	.	.V	.Q	.	.	.
17.167	9699.2080	21175.73	.	.V	.Q	.	.	.
17.250	9846.3652	21367.17	.	.V	.Q	.	.	.
17.333	9994.0869	21449.14	.	.V	.Q	.	.	.
17.417	10140.3291	21234.41	.	.V	.Q	.	.	.
17.500	10287.6592	21392.30	.	.V	.Q	.	.	.
17.583	10436.3896	21595.65	.	.V	.Q	.	.	.
17.667	10582.1953	21170.97	.	.V	.Q	.	.	.
17.750	10728.6357	21263.16	.	.V	.Q	.	.	.
17.833	10877.0869	21555.08	.	.V	.Q	.	.	.
17.917	11027.2012	21796.55	.	.V	.Q	.	.	.
18.000	11173.6680	21267.04	.	.V	.Q	.	.	.
18.083	11320.8682	21373.50	.	.V	.Q	.	.	.
18.167	11470.9238	21788.12	.	.V	.Q	.	.	.
18.250	11620.2305	21679.38	.	.V	.Q	.	.	.
18.333	11770.3213	21793.16	.	.V	.Q	.	.	.
18.417	11914.5605	20943.56	.	.V	.Q	.	.	.

18.500	12057.6465	20776.01	.	.	.	V	.	Q	.
18.583	12202.3047	21004.39	.	.	.	V	.	Q	.
18.667	12350.4092	21504.83	.	.	.	V	.	Q	.
18.750	12495.0371	20999.93	.	.	.	V	.	Q	.
18.833	12635.6172	20412.18	.	.	.	V	.	Q	.
18.917	12775.7627	20349.20	.	.	.	V	.	Q	.
19.000	12912.8896	19910.90	.	.	.	V	.	Q	.
19.083	13048.9395	19754.49	.	.	.	V	.	Q	.
19.167	13181.4531	19241.04	.	.	.	V	.	Q	.
19.250	13310.3027	18709.01	.	.	.	V	.	Q	.
19.333	13437.0254	18400.16	.	.	.	V	.	Q	.
19.417	13562.5107	18220.43	.	.	.	V	.	Q	.
19.500	13685.5576	17866.36	.	.	.	V	.	Q	.
19.583	13805.4727	17411.62	.	.	.	V	.	Q	.
19.667	13922.0811	16931.61	.	.	.	V	.	Q	.
19.750	14035.1133	16412.22	.	.	.	V	.	Q	.
19.833	14145.1260	15973.85	.	.	.	V	.	Q	.
19.917	14251.4160	15433.32	.	.	.	V	.	Q	.
20.000	14355.2275	15073.39	.	.	.	V	.	Q	.
20.083	14456.0352	14637.23	.	.	.	V	.	Q	.
20.167	14553.9062	14210.92	.	.	.	V	.	Q	.
20.250	14648.9873	13805.74	.	.	.	V	.	Q	.
20.333	14740.8809	13342.97	.	.	.	V	.	Q	.
20.417	14830.1377	12960.14	.	.	.	V	.	Q	.
20.500	14916.4189	12527.97	.	.	.	V	.	Q	.
20.583	14999.4844	12061.09	.	.	.	V	.	Q	.
20.667	15079.7314	11651.84	.	.	.	V	.	Q	.
20.750	15157.4639	11286.69	.	.	.	V	.	Q	.
20.833	15232.8750	10949.76	.	.	.	V	.	Q	.
20.917	15305.4082	10531.76	.	.	.	V	.	Q	.
21.000	15375.8994	10235.37	.	.	.	V	.	Q	.
21.083	15444.4395	9951.99	.	.	.	V	.	Q	.
21.167	15511.2188	9696.41	.	.	.	V	.	Q	.
21.250	15576.3477	9456.71	.	.	.	V	.	Q	.
21.333	15639.7656	9208.29	.	.	.	V	.	Q	.
21.417	15701.1855	8918.14	.	.	.	V	.	Q	.
21.500	15760.1377	8559.88	.	.	.	V	.	Q	.
21.583	15817.5391	8334.69	.	.	.	V	.	Q	.
21.667	15873.5635	8134.78	.	.	.	V	.	Q	.
21.750	15928.3213	7950.86	.	.	.	V	.	Q	.
21.833	15981.7939	7764.26	.	.	.	V	.	Q	.
21.917	16034.1055	7595.61	.	.	.	V	.	Q	.
22.000	16085.2773	7430.15	.	.	.	V	.	Q	.
22.083	16135.3564	7271.49	.	.	.	V	.	Q	.
22.167	16184.3594	7115.18	.	.	.	V	.	Q	.
22.250	16232.3066	6961.90	.	.	.	V	.	Q	.
22.333	16279.2324	6813.60	.	.	.	V	.	Q	.
22.417	16325.1641	6669.23	.	.	.	V	.	Q	.
22.500	16370.2422	6545.30	.	.	.	V	.	Q	.
22.583	16414.5566	6434.55	.	.	.	V	.	Q	.
22.667	16458.1230	6325.84	.	.	.	V	.	Q	.
22.750	16500.9590	6219.76	.	.	.	V	.	Q	.
22.833	16543.0938	6118.00	.	.	.	V	.	Q	.
22.917	16584.6074	6027.92	.	.	.	V	.	Q	.
23.000	16625.5234	5940.90	.	.	.	V	.	Q	.
23.083	16665.8535	5855.82	.	.	.	V	.	Q	.
23.167	16705.6094	5772.56	.	.	.	V	.	Q	.
23.250	16744.8379	5695.89	.	.	.	V	.	Q	.

23.333	16783.5566	5622.07	.	Q	.	.	V	.
23.417	16821.7930	5551.85	.	Q	.	.	V	.
23.500	16859.6309	5494.18	.	Q	.	.	V	.
23.583	16897.0996	5440.56	.	Q.	.	.	V	.
23.667	16934.2070	5388.03	.	Q.	.	.	V	.
23.750	16970.9414	5333.89	.	Q.	.	.	V	.
23.833	17007.2832	5276.86	.	Q.	.	.	V	.
23.917	17042.9883	5184.43	.	Q.	.	.	V	.
24.000	17078.2656	5122.21	.	Q.	.	.	V	.
24.083	17113.1543	5065.70	.	Q.	.	.	V	.
24.167	17147.6113	5003.11	.	Q.	.	.	V	.
24.250	17181.6152	4937.51	.	Q.	.	.	V	.
24.333	17215.1641	4871.22	.	Q	.	.	V	.
24.417	17248.2598	4805.43	.	Q	.	.	V	.
24.500	17280.8672	4734.60	.	Q	.	.	V	.
24.583	17312.9727	4661.75	.	Q	.	.	V	.
24.667	17344.5820	4589.60	.	Q	.	.	V	.
24.750	17375.6191	4506.66	.	Q	.	.	V	.
24.833	17406.0195	4414.24	.	Q	.	.	V	.
24.917	17435.7422	4315.75	.	Q	.	.	V	.
25.000	17464.7207	4207.75	.	Q	.	.	V	.
25.083	17492.9297	4095.92	.	Q	.	.	V	.
25.167	17520.3926	3987.61	.	Q	.	.	V	.
25.250	17547.0215	3866.46	.	Q	.	.	V	.
25.333	17572.7930	3742.01	.	Q	.	.	V	.
25.417	17597.8086	3632.34	.	Q	.	.	V	.
25.500	17621.9980	3512.24	.	Q	.	.	V	.
25.583	17645.2578	3377.21	.	Q	.	.	V	.
25.667	17667.7266	3262.37	.	Q	.	.	V	.
25.750	17689.3848	3144.70	.	Q	.	.	V	.
25.833	17710.1328	3012.62	.	Q	.	.	V	.
25.917	17729.8906	2868.93	.	Q	.	.	V	.
26.000	17748.8086	2747.02	.	Q	.	.	V	.
26.083	17766.8340	2617.21	.	Q	.	.	V	.
26.167	17783.8164	2465.71	.	Q	.	.	V	.
26.250	17799.7754	2317.24	.	Q	.	.	V	.
26.333	17814.6035	2152.93	.	Q	.	.	V	.
26.417	17828.5684	2027.72	.	Q	.	.	V	.
26.500	17841.7480	1913.76	.	Q	.	.	V	.
26.583	17854.0684	1788.96	.	Q	.	.	V	.
26.667	17865.3535	1638.63	.	Q	.	.	V	.
26.750	17875.7402	1508.12	.	Q	.	.	V	.
26.833	17885.3867	1400.62	.	Q	.	.	V	.
26.917	17894.2441	1285.99	.	Q	.	.	V	.
27.000	17902.4277	1188.22	.	Q	.	.	V	.
27.083	17909.9277	1089.04	.	Q	.	.	V	.
27.167	17916.8320	1002.38	.	Q	.	.	V	.
27.250	17923.2480	931.61	.	Q	.	.	V	.
27.333	17929.1797	861.29	.	Q	.	.	V	.
27.417	17934.6133	788.89	.	Q	.	.	V	.
27.500	17939.5801	721.12	.	Q	.	.	V	.
27.583	17944.1152	658.39	.	Q	.	.	V	.
27.667	17948.2520	600.59	.	Q	.	.	V	.
27.750	17952.0469	551.06	.	Q	.	.	V	.
27.833	17955.5312	505.84	.	Q	.	.	V	.
27.917	17958.7559	468.25	.	Q	.	.	V	.
28.000	17961.7285	431.62	.	Q	.	.	V	.
28.083	17964.4688	397.86	.	Q	.	.	V	.

28.167	17966.9824	365.01	Q	.	.	.	V	.
28.250	17969.2773	333.25	Q	.	.	.	V	.
28.333	17971.3691	303.65	Q	.	.	.	V	.
28.417	17973.2578	274.31	Q	.	.	.	V	.
28.500	17974.9707	248.84	Q	.	.	.	V	.
28.583	17976.5469	228.92	Q	.	.	.	V	.
28.667	17977.9883	209.17	Q	.	.	.	V	.
28.750	17979.2930	189.57	Q	.	.	.	V	.
28.833	17980.4727	171.28	Q	.	.	.	V	.
28.917	17981.5625	158.27	Q	.	.	.	V	.
29.000	17982.5684	145.95	Q	.	.	.	V	.
29.083	17983.4902	133.73	Q	.	.	.	V	.
29.167	17984.3281	121.59	Q	.	.	.	V	.
29.250	17985.0820	109.54	Q	.	.	.	V	.
29.333	17985.7539	97.57	Q	.	.	.	V	.
29.417	17986.3535	87.16	Q	.	.	.	V	.
29.500	17986.9258	83.15	Q	.	.	.	V	.
29.583	17987.4766	79.90	Q	.	.	.	V	.
29.667	17988.0039	76.67	Q	.	.	.	V	.
29.750	17988.5098	73.46	Q	.	.	.	V	.
29.833	17988.9941	70.27	Q	.	.	.	V	.
29.917	17989.4570	67.13	Q	.	.	.	V	.
30.000	17989.8984	64.02	Q	.	.	.	V	.
30.083	17990.3184	60.91	Q	.	.	.	V	.
30.167	17990.7168	57.82	Q	.	.	.	V	.
30.250	17991.0938	54.75	Q	.	.	.	V	.
30.333	17991.4492	51.71	Q	.	.	.	V	.
30.417	17991.7852	48.71	Q	.	.	.	V	.
30.500	17992.0996	45.71	Q	.	.	.	V	.
30.583	17992.3945	42.73	Q	.	.	.	V	.
30.667	17992.6680	39.79	Q	.	.	.	V	.
30.750	17992.9219	36.88	Q	.	.	.	V	.
30.833	17993.1562	33.98	Q	.	.	.	V	.
30.917	17993.3711	31.11	Q	.	.	.	V	.
31.000	17993.5664	28.25	Q	.	.	.	V	.
31.083	17993.7422	25.41	Q	.	.	.	V	.
31.167	17993.8984	22.59	Q	.	.	.	V	.
31.250	17994.0352	19.79	Q	.	.	.	V	.
31.333	17994.1523	17.00	Q	.	.	.	V	.
31.417	17994.2500	14.23	Q	.	.	.	V	.
31.500	17994.3281	11.48	Q	.	.	.	V	.
31.583	17994.3887	8.75	Q	.	.	.	V	.
31.667	17994.4297	6.03	Q	.	.	.	V	.
31.750	17994.4531	3.33	Q	.	.	.	V	.
31.833	17994.4570	0.65	Q	.	.	.	V	.

-----  
TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
(Note: 100% of Peak Flow Rate estimate assumed to have  
an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
=====	=====
0%	1910.0
10%	1430.0
20%	1160.0
30%	640.0
40%	490.0

50%	410.0
60%	350.0
70%	290.0
80%	230.0
90%	160.0

=====

END OF FLOODSCx ROUTING ANALYSIS

\*\*\*\*\*

FLOOD ROUTING ANALYSIS
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)
(c) Copyright 1989-2013 Advanced Engineering Software (aes)
Ver. 20.0 Release Date: 06/01/2013 License ID 1237

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*
\* RMV PA-3 ROMP AMENDMENT 2022 - NODE 133T \*
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*
\* 100-YR EV OCT 2022 ROKAMOTO \*

FILE NAME: EV0033TS.DAT
TIME/DATE OF STUDY: 09:30 10/25/2022

\*\*\*\*\*

FLOW PROCESS FROM NODE 13010.00 TO NODE 133.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<

\*\*\*\*\*

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 6638.200 ACRES
BASEFLOW = 0.000 CFS/SQUARE-MILE
\*USER ENTERED "LAG" TIME = 1.116 HOURS
VALLEY (DEVELOPED) S-GRAPH SELECTED
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.239
LOW LOSS FRACTION = 0.476
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.40
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.87
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 1.15
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 1.94
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 2.71
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 4.49

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:
5-MINUTE FACTOR = 0.744
30-MINUTE FACTOR = 0.744
1-HOUR FACTOR = 0.744
3-HOUR FACTOR = 0.959
6-HOUR FACTOR = 0.978
24-HOUR FACTOR = 0.987

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 7.467

UNIT HYDROGRAPH DETERMINATION

Table with 3 columns: INTERVAL NUMBER, "S" GRAPH MEAN VALUES, UNIT HYDROGRAPH ORDINATES (CFS). Rows 1-47.

-----  
TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 1051.6797  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 1397.8690  
-----

=====

2 4 - 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 FIVE-MINUTE UNIT INTERVALS (CFS)  
(Note: Time indicated is at END of Each Unit Intervals)

TIME (HRS)	VOLUME (AF)	Q (CFS)	0.	975.0	1950.0	2925.0	3900.0
0.083	0.0070	1.02	Q	.	.	.	.
0.167	0.0282	3.07	Q	.	.	.	.
0.250	0.0651	5.36	Q	.	.	.	.
0.333	0.1233	8.44	Q	.	.	.	.
0.417	0.2145	13.25	Q	.	.	.	.
0.500	0.3575	20.77	Q	.	.	.	.
0.583	0.5634	29.89	Q	.	.	.	.
0.667	0.8437	40.70	Q	.	.	.	.
0.750	1.1971	51.31	Q	.	.	.	.
0.833	1.6322	63.17	Q	.	.	.	.
0.917	2.1525	75.55	Q	.	.	.	.
1.000	2.7690	89.51	Q	.	.	.	.
1.083	3.4924	105.04	VQ	.	.	.	.
1.167	4.3348	122.32	VQ	.	.	.	.
1.250	5.2732	136.25	VQ	.	.	.	.
1.333	6.3214	152.21	VQ	.	.	.	.
1.417	7.4661	166.21	VQ	.	.	.	.
1.500	8.6961	178.60	VQ	.	.	.	.
1.583	9.9992	189.21	VQ	.	.	.	.
1.667	11.3625	197.94	V Q	.	.	.	.
1.750	12.7841	206.43	V Q	.	.	.	.
1.833	14.2560	213.71	V Q	.	.	.	.
1.917	15.7677	219.51	V Q	.	.	.	.
2.000	17.3131	224.38	V Q	.	.	.	.
2.083	18.8895	228.90	V Q	.	.	.	.
2.167	20.4954	233.17	V Q	.	.	.	.
2.250	22.1261	236.77	V Q	.	.	.	.
2.333	23.7782	239.89	V Q	.	.	.	.
2.417	25.4491	242.62	V Q	.	.	.	.
2.500	27.1357	244.90	V Q	.	.	.	.
2.583	28.8381	247.18	V Q	.	.	.	.
2.667	30.5552	249.33	V Q	.	.	.	.
2.750	32.2817	250.68	V Q	.	.	.	.
2.833	34.0168	251.94	V Q	.	.	.	.
2.917	35.7606	253.20	.VQ	.	.	.	.
3.000	37.5132	254.47	.VQ	.	.	.	.
3.083	39.2745	255.75	.VQ	.	.	.	.
3.167	41.0448	257.05	.VQ	.	.	.	.
3.250	42.8240	258.34	.VQ	.	.	.	.
3.333	44.6123	259.66	.VQ	.	.	.	.
3.417	46.4097	260.98	.VQ	.	.	.	.
3.500	48.2163	262.32	.VQ	.	.	.	.
3.583	50.0321	263.65	.VQ	.	.	.	.
3.667	51.8573	265.02	.VQ	.	.	.	.
3.750	53.6918	266.38	.VQ	.	.	.	.
3.833	55.5359	267.77	.VQ	.	.	.	.
3.917	57.3879	268.90	.VQ	.	.	.	.



4.000	59.2472	269.98	.VQ	.	.	.	.
4.083	61.1139	271.05	.VQ	.	.	.	.
4.167	62.9882	272.14	.VQ	.	.	.	.
4.250	64.8700	273.24	.VQ	.	.	.	.
4.333	66.7595	274.36	.VQ	.	.	.	.
4.417	68.6567	275.47	.VQ	.	.	.	.
4.500	70.5618	276.62	. Q	.	.	.	.
4.583	72.4747	277.76	. Q	.	.	.	.
4.667	74.3956	278.93	. Q	.	.	.	.
4.750	76.3246	280.09	. Q	.	.	.	.
4.833	78.2619	281.28	. Q	.	.	.	.
4.917	80.2073	282.47	. Q	.	.	.	.
5.000	82.1611	283.70	. Q	.	.	.	.
5.083	84.1233	284.91	. Q	.	.	.	.
5.167	86.0941	286.16	. Q	.	.	.	.
5.250	88.0735	287.41	. Q	.	.	.	.
5.333	90.0617	288.68	. Q	.	.	.	.
5.417	92.0586	289.96	. Q	.	.	.	.
5.500	94.0646	291.26	. Q	.	.	.	.
5.583	96.0795	292.57	. VQ	.	.	.	.
5.667	98.1036	293.91	. VQ	.	.	.	.
5.750	100.1370	295.24	. VQ	.	.	.	.
5.833	102.1798	296.61	. VQ	.	.	.	.
5.917	104.2319	297.98	. VQ	.	.	.	.
6.000	106.2938	299.38	. Q	.	.	.	.
6.083	108.3653	300.78	. Q	.	.	.	.
6.167	110.4467	302.22	. Q	.	.	.	.
6.250	112.5380	303.65	. Q	.	.	.	.
6.333	114.6394	305.13	. Q	.	.	.	.
6.417	116.7510	306.60	. Q	.	.	.	.
6.500	118.8729	308.11	. Q	.	.	.	.
6.583	121.0053	309.62	. Q	.	.	.	.
6.667	123.1484	311.17	. Q	.	.	.	.
6.750	125.3021	312.72	. Q	.	.	.	.
6.833	127.4667	314.31	. Q	.	.	.	.
6.917	129.6424	315.90	. Q	.	.	.	.
7.000	131.8292	317.53	. Q	.	.	.	.
7.083	134.0274	319.17	. Q	.	.	.	.
7.167	136.2370	320.85	. Q	.	.	.	.
7.250	138.4583	322.52	. Q	.	.	.	.
7.333	140.6914	324.25	. QV	.	.	.	.
7.417	142.9363	325.97	. QV	.	.	.	.
7.500	145.1935	327.74	. QV	.	.	.	.
7.583	147.4629	329.52	. QV	.	.	.	.
7.667	149.7449	331.34	. QV	.	.	.	.
7.750	152.0394	333.17	. QV	.	.	.	.
7.833	154.3469	335.04	. QV	.	.	.	.
7.917	156.6673	336.92	. QV	.	.	.	.
8.000	159.0009	338.85	. QV	.	.	.	.
8.083	161.3480	340.79	. QV	.	.	.	.
8.167	163.7087	342.78	. QV	.	.	.	.
8.250	166.0832	344.77	. QV	.	.	.	.
8.333	168.4718	346.82	. QV	.	.	.	.
8.417	170.8745	348.88	. QV	.	.	.	.
8.500	173.2919	351.00	. QV	.	.	.	.
8.583	175.7238	353.12	. Q V	.	.	.	.
8.667	178.1708	355.30	. Q V	.	.	.	.
8.750	180.6328	357.49	. Q V	.	.	.	.

8.833	183.1104	359.75	. Q V	.	.	.	.
8.917	185.6036	362.01	. Q V	.	.	.	.
9.000	188.1128	364.34	. Q V	.	.	.	.
9.083	190.6382	366.68	. Q V	.	.	.	.
9.167	193.1801	369.09	. Q V	.	.	.	.
9.250	195.7387	371.51	. Q V	.	.	.	.
9.333	198.3145	374.00	. Q V	.	.	.	.
9.417	200.9075	376.50	. Q V	.	.	.	.
9.500	203.5183	379.09	. Q V	.	.	.	.
9.583	206.1469	381.68	. Q V	.	.	.	.
9.667	208.7941	384.36	. Q V	.	.	.	.
9.750	211.4597	387.05	. Q V	.	.	.	.
9.833	214.1444	389.83	. Q V	.	.	.	.
9.917	216.8484	392.62	. Q V	.	.	.	.
10.000	219.5722	395.50	. Q V	.	.	.	.
10.083	222.3160	398.40	. Q V	.	.	.	.
10.167	225.0804	401.39	. Q V	.	.	.	.
10.250	227.8655	404.40	. Q V	.	.	.	.
10.333	230.6721	407.52	. Q V	.	.	.	.
10.417	233.5003	410.65	. Q V	.	.	.	.
10.500	236.3508	413.90	. Q V	.	.	.	.
10.583	239.2238	417.16	. Q V	.	.	.	.
10.667	242.1201	420.54	. Q V	.	.	.	.
10.750	245.0399	423.94	. Q V	.	.	.	.
10.833	247.9839	427.47	. Q V	.	.	.	.
10.917	250.9523	431.02	. Q V	.	.	.	.
11.000	253.9462	434.71	. Q V	.	.	.	.
11.083	256.9656	438.42	. Q V	.	.	.	.
11.167	260.0115	442.27	. Q V	.	.	.	.
11.250	263.0842	446.15	. Q V	.	.	.	.
11.333	266.1847	450.19	. Q V	.	.	.	.
11.417	269.3131	454.26	. Q V	.	.	.	.
11.500	272.4707	458.48	. Q V	.	.	.	.
11.583	275.6577	462.75	. Q V	.	.	.	.
11.667	278.8753	467.19	. Q V	.	.	.	.
11.750	282.1238	471.68	. Q V	.	.	.	.
11.833	285.4044	476.35	. Q V	.	.	.	.
11.917	288.7176	481.07	. Q V	.	.	.	.
12.000	292.0646	485.99	. Q V	.	.	.	.
12.083	295.4523	491.90	. Q V	.	.	.	.
12.167	298.8887	498.96	. Q V	.	.	.	.
12.250	302.3755	506.29	. Q V	.	.	.	.
12.333	305.9196	514.59	. Q V	.	.	.	.
12.417	309.5320	524.53	. Q V	.	.	.	.
12.500	313.2316	537.18	. Q V	.	.	.	.
12.583	317.0290	551.38	. Q V	.	.	.	.
12.667	320.9366	567.38	. Q V	.	.	.	.
12.750	324.9537	583.29	. Q V	.	.	.	.
12.833	329.0902	600.62	. Q V	.	.	.	.
12.917	333.3501	618.53	. Q V	.	.	.	.
13.000	337.7453	638.19	. Q V	.	.	.	.
13.083	342.2866	659.40	. Q V	.	.	.	.
13.167	346.9872	682.54	. Q V	.	.	.	.
13.250	351.8271	702.75	. Q V	.	.	.	.
13.333	356.8216	725.20	. Q V	.	.	.	.
13.417	361.9594	746.01	. Q V	.	.	.	.
13.500	367.2332	765.76	. Q V	.	.	.	.
13.583	372.6332	784.08	. Q V	.	.	.	.

13.667	378.1508	801.15	.	Q V	.	.	.
13.750	383.7859	818.22	.	Q V	.	.	.
13.833	389.5346	834.71	.	Q .V	.	.	.
13.917	395.3892	850.09	.	Q .V	.	.	.
14.000	401.3481	865.23	.	Q .V	.	.	.
14.083	407.4236	882.16	.	Q.V	.	.	.
14.167	413.6311	901.34	.	Q.V	.	.	.
14.250	419.9716	920.63	.	Q. V	.	.	.
14.333	426.4566	941.62	.	Q. V	.	.	.
14.417	433.1072	965.67	.	Q. V	.	.	.
14.500	439.9590	994.88	.	Q V	.	.	.
14.583	447.0338	1027.27	.	Q V	.	.	.
14.667	454.3570	1063.32	.	Q V	.	.	.
14.750	461.9234	1098.65	.	.Q V	.	.	.
14.833	469.7540	1136.99	.	.Q V	.	.	.
14.917	477.8595	1176.93	.	.QV	.	.	.
15.000	486.2684	1220.97	.	.QV	.	.	.
15.083	495.0063	1268.75	.	.QV	.	.	.
15.167	504.1066	1321.35	.	.QV	.	.	.
15.250	513.5391	1369.60	.	.Q	.	.	.
15.333	523.3484	1424.31	.	.Q	.	.	.
15.417	533.4922	1472.89	.	.Q	.	.	.
15.500	543.9410	1517.15	.	.Q	.	.	.
15.583	554.6876	1560.42	.	.VQ	.	.	.
15.667	565.7162	1601.35	.	.Q	.	.	.
15.750	577.0098	1639.83	.	.Q	.	.	.
15.833	588.5276	1672.38	.	.VQ	.	.	.
15.917	600.2906	1707.99	.	.Q	.	.	.
16.000	612.4019	1758.55	.	.VQ	.	.	.
16.083	625.4604	1896.10	.	.V Q.	.	.	.
16.167	639.4840	2036.22	.	.V Q	.	.	.
16.250	654.1524	2129.85	.	.V .Q	.	.	.
16.333	669.8816	2283.88	.	.V. Q	.	.	.
16.417	687.2117	2516.33	.	.V. Q	.	.	.
16.500	706.5404	2806.54	.	.V	.Q	.	.
16.583	727.2323	3004.47	.	.V	.Q	.	.
16.667	749.0294	3164.94	.	.V	.Q	.	.
16.750	771.0418	3196.20	.	.V	.Q	.	.
16.833	794.0703	3343.74	.	.V	.Q	.	.
16.917	817.8479	3452.51	.	.V	.Q	.	.
17.000	842.9398	3643.35	.	.V	.Q	.Q	.
17.083	868.9985	3783.73	.	.V	.Q	.Q	.
17.167	895.6933	3876.08	.	.V	.Q	.Q	.
17.250	920.4733	3598.05	.	.V	.Q	.Q	.
17.333	945.7007	3663.02	.	.V	.Q	.Q	.
17.417	969.3187	3429.33	.	.V	.Q	.Q	.
17.500	991.3289	3195.88	.	.V .Q	.	.	.
17.583	1011.5753	2939.78	.	.V Q	.	.	.
17.667	1030.1960	2703.73	.	.Q V.	.	.	.
17.750	1047.9673	2580.39	.	.Q V.	.	.	.
17.833	1064.3850	2383.86	.	.Q V	.	.	.
17.917	1079.3196	2168.49	.	.Q V	.	.	.
18.000	1093.1055	2001.71	.	.Q	.V	.	.
18.083	1106.1342	1891.76	.	.Q.	.V	.	.
18.167	1118.4055	1781.80	.	.Q	.V	.	.
18.250	1129.7507	1647.32	.	.Q	.V	.	.
18.333	1140.2366	1522.54	.	.Q	.V	.	.
18.417	1149.9784	1414.52	.	.Q	.V	.	.

18.500	1158.9962	1309.39	.	. Q	.	. V	.
18.583	1167.5298	1239.08	.	. Q	.	. V	.
18.667	1175.4996	1157.23	.	.Q	.	. V	.
18.750	1182.6360	1036.21	.	.Q	.	. V	.
18.833	1189.3345	972.62	.	.Q.	.	. V	.
18.917	1195.7305	928.69	.	.Q.	.	. V	.
19.000	1201.8484	888.33	.	.Q.	.	. V	.
19.083	1207.6710	845.44	.	.Q	.	. V	.
19.167	1213.2008	802.92	.	.Q	.	. V	.
19.250	1218.4878	767.67	.	.Q	.	. V	.
19.333	1223.5388	733.42	.	.Q	.	. V	.
19.417	1228.3785	702.72	.	.Q	.	. V	.
19.500	1233.0288	675.23	.	.Q	.	. V	.
19.583	1237.5017	649.46	.	.Q	.	. V	.
19.667	1241.8113	625.74	.	.Q	.	. V	.
19.750	1245.9601	602.41	.	.Q	.	. V	.
19.833	1249.9420	578.18	.	.Q	.	. V	.
19.917	1253.6549	539.11	.	.Q	.	. V	.
20.000	1257.2031	515.19	.	.Q	.	. V	.
20.083	1260.6521	500.79	.	.Q	.	. V	.
20.167	1264.0137	488.11	.	.Q	.	. V	.
20.250	1267.2887	475.54	.	.Q	.	. V	.
20.333	1270.4822	463.70	.	.Q	.	. V	.
20.417	1273.6010	452.84	.	.Q	.	. V	.
20.500	1276.6517	442.97	.	.Q	.	. V	.
20.583	1279.6376	433.55	.	.Q	.	. V	.
20.667	1282.5620	424.63	.	.Q	.	. V	.
20.750	1285.4323	416.76	.	.Q	.	. V	.
20.833	1288.2511	409.30	.	.Q	.	. V	.
20.917	1291.0236	402.56	.	.Q	.	. V	.
21.000	1293.7524	396.24	.	.Q	.	. V	.
21.083	1296.4395	390.15	.	.Q	.	. V	.
21.167	1299.0862	384.30	.	.Q	.	. V	.
21.250	1301.6941	378.66	.	.Q	.	. V	.
21.333	1304.2645	373.22	.	.Q	.	. V	.
21.417	1306.7987	367.97	.	.Q	.	. V	.
21.500	1309.2980	362.89	.	.Q	.	. V	.
21.583	1311.7634	357.98	.	.Q	.	. V	.
21.667	1314.1960	353.22	.	.Q	.	. V	.
21.750	1316.5969	348.61	.	.Q	.	. V	.
21.833	1318.9670	344.14	.	.Q	.	. V	.
21.917	1321.3088	340.03	.	.Q	.	. V	.
22.000	1323.6237	336.12	.	.Q	.	. V	.
22.083	1325.9125	332.33	.	.Q	.	. V	.
22.167	1328.1759	328.65	.	.Q	.	. V	.
22.250	1330.4147	325.08	.	.Q	.	. V	.
22.333	1332.6296	321.61	.	.Q	.	. V	.
22.417	1334.8213	318.23	.	.Q	.	. V	.
22.500	1336.9904	314.95	.	.Q	.	. V	.
22.583	1339.1375	311.75	.	.Q	.	. V	.
22.667	1341.2631	308.64	.	.Q	.	. V	.
22.750	1343.3678	305.61	.	.Q	.	. V	.
22.833	1345.4523	302.66	.	.Q	.	. V	.
22.917	1347.5168	299.78	.	.Q	.	. V	.
23.000	1349.5621	296.98	.	.Q	.	. V	.
23.083	1351.5885	294.24	.	.Q	.	. V	.
23.167	1353.5966	291.56	.	.Q	.	. V	.
23.250	1355.5865	288.95	.	.Q	.	. V	.

23.333	1357.5590	286.40	. Q	.	.	.	V .
23.417	1359.5143	283.91	. Q	.	.	.	V .
23.500	1361.4528	281.47	. Q	.	.	.	V .
23.583	1363.3749	279.09	. Q	.	.	.	V.
23.667	1365.2810	276.76	. Q	.	.	.	V.
23.750	1367.1714	274.49	. Q	.	.	.	V.
23.833	1369.0464	272.25	. Q	.	.	.	V.
23.917	1370.9064	270.07	. Q	.	.	.	V.
24.000	1372.7516	267.93	. Q	.	.	.	V.
24.083	1374.5754	264.82	. Q	.	.	.	V.
24.167	1376.3711	260.73	. Q	.	.	.	V.
24.250	1378.1375	256.47	. Q	.	.	.	V.
24.333	1379.8693	251.47	. Q	.	.	.	V.
24.417	1381.5553	244.82	. Q	.	.	.	V.
24.500	1383.1775	235.54	. Q	.	.	.	V.
24.583	1384.7255	224.77	. Q	.	.	.	V.
24.667	1386.1886	212.45	. Q	.	.	.	V.
24.750	1387.5691	200.45	. Q	.	.	.	V.
24.833	1388.8594	187.35	.Q	.	.	.	V.
24.917	1390.0566	173.85	.Q	.	.	.	V.
25.000	1391.1512	158.93	.Q	.	.	.	V.
25.083	1392.1333	142.60	.Q	.	.	.	V.
25.167	1392.9922	124.70	.Q	.	.	.	V.
25.250	1393.7521	110.33	.Q	.	.	.	V.
25.333	1394.4000	94.09	Q	.	.	.	V.
25.417	1394.9507	79.96	Q	.	.	.	V.
25.500	1395.4163	67.60	Q	.	.	.	V.
25.583	1395.8098	57.14	Q	.	.	.	V.
25.667	1396.1450	48.67	Q	.	.	.	V.
25.750	1396.4242	40.53	Q	.	.	.	V.
25.833	1396.6562	33.69	Q	.	.	.	V.
25.917	1396.8518	28.40	Q	.	.	.	V.
26.000	1397.0178	24.10	Q	.	.	.	V.
26.083	1397.1569	20.20	Q	.	.	.	V.
26.167	1397.2712	16.60	Q	.	.	.	V.
26.250	1397.3656	13.71	Q	.	.	.	V.
26.333	1397.4437	11.34	Q	.	.	.	V.
26.417	1397.5083	9.38	Q	.	.	.	V.
26.500	1397.5627	7.91	Q	.	.	.	V.
26.583	1397.6072	6.45	Q	.	.	.	V.
26.667	1397.6427	5.16	Q	.	.	.	V.
26.750	1397.6748	4.67	Q	.	.	.	V.
26.833	1397.7045	4.30	Q	.	.	.	V.
26.917	1397.7316	3.93	Q	.	.	.	V.
27.000	1397.7562	3.57	Q	.	.	.	V.
27.083	1397.7783	3.21	Q	.	.	.	V.
27.167	1397.7980	2.85	Q	.	.	.	V.
27.250	1397.8152	2.50	Q	.	.	.	V.
27.333	1397.8300	2.15	Q	.	.	.	V.
27.417	1397.8424	1.80	Q	.	.	.	V.
27.500	1397.8524	1.45	Q	.	.	.	V.
27.583	1397.8601	1.11	Q	.	.	.	V.
27.667	1397.8654	0.77	Q	.	.	.	V.
27.750	1397.8683	0.43	Q	.	.	.	V.
27.833	1397.8689	0.09	Q	.	.	.	V.

-----  
TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
(Note: 100% of Peak Flow Rate estimate assumed to have

an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
0%	1670.0
10%	680.0
20%	340.0
30%	225.0
40%	165.0
50%	115.0
60%	90.0
70%	70.0
80%	55.0
90%	25.0

=====

END OF FLOODSCx ROUTING ANALYSIS

\*\*\*\*\*

FLOOD ROUTING ANALYSIS
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)
(c) Copyright 1989-2013 Advanced Engineering Software (aes)
Ver. 20.0 Release Date: 06/01/2013 License ID 1237

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*
\* RMV PA-3 BODR 2022 - NODE 133U \*
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*
\* 100-YR EV JULY 2022 ROKAMOTO \*

FILE NAME: EV0033US.DAT
TIME/DATE OF STUDY: 13:42 07/24/2022

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 133.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<

\*\*\*\*\*

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 54417.500 ACRES
BASEFLOW = 0.000 CFS/SQUARE-MILE
\*USER ENTERED "LAG" TIME = 2.284 HOURS
VALLEY (DEVELOPED) S-GRAPH SELECTED
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.290
LOW LOSS FRACTION = 0.382
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.50
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.94
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 1.31
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 2.44
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 3.63
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 6.36

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:
5-MINUTE FACTOR = 0.333
30-MINUTE FACTOR = 0.385
1-HOUR FACTOR = 0.425
3-HOUR FACTOR = 0.775
6-HOUR FACTOR = 0.899
24-HOUR FACTOR = 0.941

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 3.649

UNIT HYDROGRAPH DETERMINATION

Table with 3 columns: INTERVAL NUMBER, "S" GRAPH MEAN VALUES, UNIT HYDROGRAPH ORDINATES (CFS). Rows 1-48.

49	90.675	5169.966
50	91.443	5055.437
51	92.189	4910.080
52	92.886	4586.024
53	93.581	4574.577
54	94.183	3959.756
55	94.647	3056.178
56	95.111	3050.906
57	95.574	3049.099
58	96.007	2851.824
59	96.309	1985.200
60	96.596	1884.780
61	96.882	1883.023
62	97.168	1883.023
63	97.454	1882.973
64	97.740	1883.023
65	97.988	1632.927
66	98.075	570.686
67	98.143	449.178
68	98.212	450.935
69	98.280	450.935
70	98.349	450.935
71	98.417	447.421
72	98.485	447.421
73	98.553	450.935
74	98.622	450.935
75	98.690	450.935
76	98.759	450.935
77	98.827	447.421
78	98.895	450.935
79	98.964	450.935
80	99.032	447.421
81	99.100	447.421
82	99.168	447.421
83	99.236	447.421
84	99.304	447.421
85	99.372	447.421
86	99.440	447.421
87	99.508	447.421
88	99.576	447.421
89	99.644	447.421
90	99.712	447.421
91	99.780	447.421
92	99.848	447.421
93	99.916	447.421
94	99.984	447.421
95	100.000	108.353

-----  
TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 10182.2305  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 16934.8105  
-----

=====

2 4 - 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 FIVE-MINUTE UNIT INTERVALS (CFS)  
(Note: Time indicated is at END of Each Unit Intervals)

TIME (HRS)	VOLUME (AF)	Q (CFS)	0.	5200.0	10400.0	15600.0	20800.0
0.083	0.0531	7.71	Q	.	.	.	.
0.167	0.2125	23.14	Q	.	.	.	.
0.250	0.4785	38.63	Q	.	.	.	.
0.333	0.8515	54.15	Q	.	.	.	.
0.417	1.3328	69.89	Q	.	.	.	.
0.500	1.9595	91.00	Q	.	.	.	.
0.583	2.7497	114.73	Q	.	.	.	.
0.667	3.7039	138.55	Q	.	.	.	.
0.750	4.8972	173.26	Q	.	.	.	.
0.833	6.3966	217.72	Q	.	.	.	.
0.917	8.2712	272.19	Q	.	.	.	.
1.000	10.5983	337.90	Q	.	.	.	.
1.083	13.4121	408.55	Q	.	.	.	.
1.167	16.6986	477.21	Q	.	.	.	.
1.250	20.5502	559.25	VQ	.	.	.	.
1.333	24.9975	645.75	VQ	.	.	.	.
1.417	29.9540	719.67	VQ	.	.	.	.
1.500	35.4957	804.65	VQ	.	.	.	.
1.583	41.7284	905.00	VQ	.	.	.	.
1.667	48.5305	987.67	VQ	.	.	.	.
1.750	55.9290	1074.25	V Q	.	.	.	.
1.833	64.0255	1175.61	V Q	.	.	.	.
1.917	72.9290	1292.79	V Q	.	.	.	.
2.000	82.5157	1391.99	V Q	.	.	.	.
2.083	92.8462	1499.99	V Q	.	.	.	.
2.167	104.0703	1629.73	V Q	.	.	.	.
2.250	116.1789	1758.18	V Q	.	.	.	.
2.333	129.2849	1902.99	V Q	.	.	.	.
2.417	143.1453	2012.53	V Q	.	.	.	.
2.500	157.6958	2112.73	V Q	.	.	.	.
2.583	173.0147	2224.30	V Q	.	.	.	.
2.667	189.2764	2361.20	V Q	.	.	.	.
2.750	206.3618	2480.80	V Q	.	.	.	.
2.833	224.1305	2580.02	V Q	.	.	.	.
2.917	242.6360	2687.01	V Q	.	.	.	.
3.000	261.7767	2779.22	V Q	.	.	.	.
3.083	281.5683	2873.74	V Q	.	.	.	.
3.167	301.9364	2957.45	V Q	.	.	.	.
3.250	322.7838	3027.04	V Q	.	.	.	.
3.333	344.1127	3096.95	V Q	.	.	.	.
3.417	365.9416	3169.56	V Q	.	.	.	.
3.500	388.2457	3238.56	V Q	.	.	.	.
3.583	410.9972	3303.51	V Q	.	.	.	.
3.667	434.1685	3364.47	.V Q	.	.	.	.
3.750	457.7102	3418.26	.V Q	.	.	.	.
3.833	481.5982	3468.54	.V Q	.	.	.	.
3.917	505.7864	3512.14	.V Q	.	.	.	.

4.000	530.2719	3555.28	.V	Q	.	.	.
4.083	555.0389	3596.17	.V	Q	.	.	.
4.167	580.0844	3636.61	.V	Q	.	.	.
4.250	605.4042	3676.44	.V	Q	.	.	.
4.333	630.9872	3714.64	.V	Q	.	.	.
4.417	656.8341	3752.97	.V	Q	.	.	.
4.500	682.9225	3788.05	.V	Q	.	.	.
4.583	709.2189	3818.23	.V	Q	.	.	.
4.667	735.7242	3848.57	.V	Q	.	.	.
4.750	762.4396	3879.07	.V	Q	.	.	.
4.833	789.3587	3908.65	.V	Q	.	.	.
4.917	816.4492	3933.53	.V	Q	.	.	.
5.000	843.7083	3958.03	.V	Q	.	.	.
5.083	871.1372	3982.68	.V	Q	.	.	.
5.167	898.7371	4007.51	.V	Q	.	.	.
5.250	926.5092	4032.51	.V	Q	.	.	.
5.333	954.4547	4057.68	.V	Q	.	.	.
5.417	982.5651	4081.63	.V	Q	.	.	.
5.500	1010.8007	4099.80	.V	Q	.	.	.
5.583	1039.1577	4117.44	.V	Q	.	.	.
5.667	1067.6375	4135.26	.V	Q	.	.	.
5.750	1096.2411	4153.24	.V	Q	.	.	.
5.833	1124.9697	4171.40	.V	Q	.	.	.
5.917	1153.8245	4189.71	.V	Q	.	.	.
6.000	1182.8065	4208.20	.V	Q	.	.	.
6.083	1211.9172	4226.88	.V	Q	.	.	.
6.167	1241.1580	4245.75	.V	Q	.	.	.
6.250	1270.5299	4264.80	.V	Q	.	.	.
6.333	1300.0343	4284.04	.V	Q	.	.	.
6.417	1329.6724	4303.45	.V	Q	.	.	.
6.500	1359.4457	4323.08	.V	Q	.	.	.
6.583	1389.3555	4342.91	.V	Q	.	.	.
6.667	1419.4031	4362.92	.V	Q	.	.	.
6.750	1449.5900	4383.13	.V	Q	.	.	.
6.833	1479.9175	4403.56	.V	Q	.	.	.
6.917	1510.3871	4424.19	.V	Q	.	.	.
7.000	1541.0004	4445.05	.V	Q	.	.	.
7.083	1571.7588	4466.13	.V	Q	.	.	.
7.167	1602.6641	4487.44	.V	Q	.	.	.
7.250	1633.7175	4508.97	.V	Q	.	.	.
7.333	1664.9210	4530.74	.V	Q	.	.	.
7.417	1696.2761	4552.75	.V	Q	.	.	.
7.500	1727.7844	4575.01	.V	Q	.	.	.
7.583	1759.4478	4597.52	.V	Q	.	.	.
7.667	1791.2678	4620.28	.V	Q	.	.	.
7.750	1823.2465	4643.30	.V	Q	.	.	.
7.833	1855.3855	4666.58	.V	Q	.	.	.
7.917	1887.6736	4688.23	.V	Q	.	.	.
8.000	1920.1085	4709.55	.V	Q	.	.	.
8.083	1952.6921	4731.13	.V	Q	.	.	.
8.167	1985.4263	4753.00	.V	Q	.	.	.
8.250	2018.3130	4775.16	.V	Q	.	.	.
8.333	2051.3542	4797.61	.V	Q	.	.	.
8.417	2084.5522	4820.35	.V	Q	.	.	.
8.500	2117.9089	4843.41	.V	Q	.	.	.
8.583	2151.4265	4866.77	.V	Q	.	.	.
8.667	2185.1074	4890.46	.V	Q	.	.	.
8.750	2218.9536	4914.47	.V	Q	.	.	.

8.833	2252.9675	4938.82	.	V	Q	.	.	.
8.917	2287.1514	4963.51	.	V	Q	.	.	.
9.000	2321.5078	4988.55	.	V	Q	.	.	.
9.083	2356.0391	5013.95	.	V	Q	.	.	.
9.167	2390.7478	5039.72	.	V	Q	.	.	.
9.250	2425.6367	5065.86	.	V	Q	.	.	.
9.333	2460.7083	5092.40	.	V	Q	.	.	.
9.417	2495.9653	5119.32	.	V	Q	.	.	.
9.500	2531.4106	5146.66	.	V	Q	.	.	.
9.583	2567.0471	5174.41	.	V	Q	.	.	.
9.667	2602.8777	5202.58	.	V	Q	.	.	.
9.750	2638.9053	5231.20	.	V	Q	.	.	.
9.833	2675.1331	5260.26	.	V	Q	.	.	.
9.917	2711.5640	5289.78	.	V	Q	.	.	.
10.000	2748.2017	5319.78	.	V	Q	.	.	.
10.083	2785.0491	5350.26	.	V	Q	.	.	.
10.167	2822.1099	5381.24	.	V	Q	.	.	.
10.250	2859.3877	5412.73	.	V	Q	.	.	.
10.333	2896.8860	5444.76	.	V	Q	.	.	.
10.417	2934.6086	5477.32	.	V	Q	.	.	.
10.500	2972.5593	5510.44	.	V	Q	.	.	.
10.583	3010.7419	5544.13	.	V	Q	.	.	.
10.667	3049.1609	5578.42	.	V	Q	.	.	.
10.750	3087.8201	5613.31	.	V	Q	.	.	.
10.833	3126.7239	5648.84	.	V	Q	.	.	.
10.917	3165.8767	5685.00	.	V	Q	.	.	.
11.000	3205.2832	5721.83	.	V	.Q	.	.	.
11.083	3244.9482	5759.35	.	V	.Q	.	.	.
11.167	3284.8765	5797.58	.	V	.Q	.	.	.
11.250	3325.0730	5836.54	.	V	.Q	.	.	.
11.333	3365.5430	5876.25	.	V	.Q	.	.	.
11.417	3406.2917	5916.74	.	V	.Q	.	.	.
11.500	3447.3250	5958.03	.	V	.Q	.	.	.
11.583	3488.6484	6000.16	.	V	.Q	.	.	.
11.667	3530.2678	6043.15	.	V	.Q	.	.	.
11.750	3572.1895	6087.03	.	V	.Q	.	.	.
11.833	3614.4197	6131.83	.	V	.Q	.	.	.
11.917	3656.9651	6177.59	.	V	.Q	.	.	.
12.000	3699.8325	6224.34	.	V	.Q	.	.	.
12.083	3743.1213	6285.53	.	V	.Q	.	.	.
12.167	3786.9309	6361.16	.	V	.Q	.	.	.
12.250	3831.2683	6437.78	.	V	.Q	.	.	.
12.333	3876.1401	6515.39	.	V	.Q	.	.	.
12.417	3921.5557	6594.35	.	V	.Q	.	.	.
12.500	3967.5864	6683.67	.	V	.Q	.	.	.
12.583	4014.2705	6778.53	.	V	.Q	.	.	.
12.667	4061.6157	6874.53	.	V	.Q	.	.	.
12.750	4109.7598	6990.53	.	V	.Q	.	.	.
12.833	4158.8262	7124.44	.	V	.Q	.	.	.
12.917	4208.9409	7276.63	.	V	.Q	.	.	.
13.000	4260.2437	7449.17	.	V	Q	.	.	.
13.083	4312.7983	7630.96	.	V	Q	.	.	.
13.167	4366.5854	7809.89	.	V	Q	.	.	.
13.250	4421.7700	8012.79	.	V	Q	.	.	.
13.333	4478.4097	8224.05	.	V	Q	.	.	.
13.417	4536.3569	8413.91	.	V	Q	.	.	.
13.500	4595.7490	8623.74	.	V	Q	.	.	.
13.583	4656.7754	8861.02	.	V	Q	.	.	.

13.667	4719.2275	9068.03	.	.V	Q	.	.	.
13.750	4783.1567	9282.54	.	.V	Q	.	.	.
13.833	4848.7466	9523.64	.	.V	Q	.	.	.
13.917	4916.1909	9792.90	.	.V	Q	.	.	.
14.000	4985.2778	10031.45	.	.V	Q	.	.	.
14.083	5056.2163	10300.30	.	.V	Q	.	.	.
14.167	5129.3706	10621.99	.	.V	Q	.	.	.
14.250	5204.7192	10940.64	.	.V	.Q	.	.	.
14.333	5282.4561	11287.36	.	.V	.Q	.	.	.
14.417	5362.1538	11572.14	.	.V	.Q	.	.	.
14.500	5443.7671	11850.25	.	.V	.Q	.	.	.
14.583	5527.4624	12152.54	.	.V	.Q	.	.	.
14.667	5613.5371	12498.07	.	.V	.Q	.	.	.
14.750	5701.9165	12832.72	.	.V	.Q	.	.	.
14.833	5792.4683	13148.13	.	.V	.Q	.	.	.
14.917	5885.3984	13493.48	.	.V	.Q	.	.	.
15.000	5980.6523	13830.86	.	.V	.Q	.	.	.
15.083	6078.2930	14177.45	.	.V	.Q	.	.	.
15.167	6178.1338	14496.88	.	.V	.Q	.	.	.
15.250	6280.1455	14812.07	.	.V	.Q	.	.	.
15.333	6384.3535	15131.01	.	.V	.Q	.	.	.
15.417	6490.4531	15405.64	.	.V	.Q	.	.	.
15.500	6598.3833	15671.43	.	.V	.Q	.	.	.
15.583	6708.2798	15956.99	.	.V	.Q	.	.	.
15.667	6819.8491	16199.88	.	.V	.Q	.	.	.
15.750	6932.9849	16427.31	.	.V	.Q	.	.	.
15.833	7047.6914	16655.40	.	.V	.Q	.	.	.
15.917	7164.0962	16901.96	.	.V	.Q	.	.	.
16.000	7282.0879	17132.40	.	.V	.Q	.	.	.
16.083	7402.6187	17501.09	.	.V	.Q	.	.	.
16.167	7525.6123	17858.67	.	.V	.Q	.	.	.
16.250	7649.7031	18017.96	.	.V	.Q	.	.	.
16.333	7774.9155	18180.87	.	.V	.Q	.	.	.
16.417	7900.8438	18284.80	.	.V	.Q	.	.	.
16.500	8028.1763	18488.71	.	.V	.Q	.	.	.
16.583	8156.3999	18618.06	.	.V	.Q	.	.	.
16.667	8285.5713	18755.71	.	.V	.Q	.	.	.
16.750	8417.2881	19125.22	.	.V	.Q	.	.	.
16.833	8551.0371	19420.34	.	.V	.Q	.	.	.
16.917	8686.5840	19681.44	.	.V	.Q	.	.	.
17.000	8824.0400	19958.59	.	.V	.Q	.	.	.
17.083	8962.5684	20114.30	.	.V	.Q	.	.	.
17.167	9100.8848	20083.56	.	.V	.Q	.	.	.
17.250	9240.5830	20284.12	.	.V	.Q	.	.	.
17.333	9380.8779	20370.79	.	.V	.Q	.	.	.
17.417	9519.6846	20154.75	.	.V	.Q	.	.	.
17.500	9659.6309	20320.21	.	.V	.Q	.	.	.
17.583	9801.0430	20533.05	.	.V	.Q	.	.	.
17.667	9939.5137	20105.99	.	.V	.Q	.	.	.
17.750	10078.6270	20199.26	.	.V	.Q	.	.	.
17.833	10219.7852	20496.18	.	.V	.Q	.	.	.
17.917	10362.6426	20742.87	.	.V	.Q	.	.	.
18.000	10501.8223	20208.87	.	.V	.Q	.	.	.
18.083	10641.7412	20316.17	.	.V	.Q	.	.	.
18.167	10784.5518	20736.05	.	.V	.Q	.	.	.
18.250	10926.6113	20627.07	.	.V	.Q	.	.	.
18.333	11069.5000	20747.41	.	.V	.Q	.	.	.
18.417	11206.4688	19887.91	.	.V	.Q	.	.	.

18.500	11342.2422	19714.29	.	.	.	V	.	Q	.
18.583	11479.5928	19943.27	.	.	.	V	.	Q	.
18.667	11620.4248	20448.86	.	.	.	V	.	Q	.
18.750	11757.7549	19940.37	.	.	.	V	.	Q	.
18.833	11891.0107	19348.80	.	.	.	V	.	Q	.
18.917	12023.8740	19291.76	.	.	.	V	.	Q	.
19.000	12153.7314	18855.34	.	.	.	V	.	Q	.
19.083	12282.5664	18706.90	.	.	.	V	.	Q	.
19.167	12407.8965	18197.92	.	.	.	V	.	Q	.
19.250	12529.5996	17671.32	.	.	.	V	.	Q	.
19.333	12649.2510	17373.31	.	.	.	V	.	Q	.
19.417	12767.7285	17202.94	.	.	.	V	.	Q	.
19.500	12883.8408	16859.44	.	.	.	V	.	Q	.
19.583	12996.9199	16419.04	.	.	.	V	.	Q	.
19.667	13106.7695	15950.17	.	.	.	V	.	Q	.
19.750	13213.1221	15442.33	.	.	.	V	.	Q	.
19.833	13316.5674	15020.21	.	.	.	V	.	Q	.
19.917	13416.4238	14499.11	.	.	.	V	.	Q	.
20.000	13513.9238	14156.98	.	.	.	V	.	Q	.
20.083	13608.5566	13740.66	.	.	.	V	.	Q	.
20.167	13700.4287	13339.82	.	.	.	V	.	Q	.
20.250	13789.6855	12960.16	.	.	.	V	.	Q	.
20.333	13875.9580	12526.79	.	.	.	V	.	Q	.
20.417	13959.7520	12166.86	.	.	.	V	.	Q	.
20.500	14040.7090	11754.97	.	.	.	V	.	Q	.
20.583	14118.6035	11310.28	.	.	.	V	.	Q	.
20.667	14193.8828	10930.51	.	.	.	V	.	Q	.
20.750	14266.8281	10591.60	.	.	.	V	.	Q	.
20.833	14337.6016	10276.31	.	.	.	V	.	Q	.
20.917	14405.6514	9880.79	.	.	.	V	.	Q	.
21.000	14471.8018	9604.97	.	.	.	V	.	Q	.
21.083	14536.1475	9342.99	.	.	.	V	.	Q	.
21.167	14598.8633	9106.30	.	.	.	V	.	Q	.
21.250	14660.0391	8882.68	.	.	.	V	.	Q	.
21.333	14719.6172	8650.79	.	.	.	V	.	Q	.
21.417	14777.3145	8377.60	.	.	.	V	.	Q	.
21.500	14832.6455	8034.12	.	.	.	V	.	Q	.
21.583	14886.5312	7824.21	.	.	.	V	.	Q	.
21.667	14939.1406	7638.95	.	.	.	V	.	Q	.
21.750	14990.5732	7468.07	.	.	.	V	.	Q	.
21.833	15040.8066	7293.85	.	.	.	V	.	Q	.
21.917	15089.9541	7136.15	.	.	.	V	.	Q	.
22.000	15138.0361	6981.52	.	.	.	V	.	Q	.
22.083	15185.0967	6833.15	.	.	.	V	.	Q	.
22.167	15231.1504	6686.98	.	.	.	V	.	Q	.
22.250	15276.2168	6543.65	.	.	.	V	.	Q	.
22.333	15320.3271	6404.88	.	.	.	V	.	Q	.
22.417	15363.5088	6270.00	.	.	.	V	.	Q	.
22.500	15405.8975	6154.80	.	.	.	V	.	Q	.
22.583	15447.5752	6051.59	.	.	.	V	.	Q	.
22.667	15488.5557	5950.33	.	.	.	V	.	Q	.
22.750	15528.8564	5851.63	.	.	.	V	.	Q	.
22.833	15568.5049	5756.93	.	.	.	V	.	Q	.
22.917	15607.5732	5672.75	.	.	.	V	.	Q	.
23.000	15646.0820	5591.41	.	.	.	V	.	Q	.
23.083	15684.0430	5511.93	.	.	.	V	.	Q	.
23.167	15721.4688	5434.18	.	.	.	V	.	Q	.
23.250	15758.4033	5362.88	.	.	.	V	.	Q	.

23.333	15794.8662	5294.35	.	Q	.	.	V	.
23.417	15830.8789	5229.06	.	Q	.	.	V	.
23.500	15866.5186	5174.94	.	Q	.	.	V	.
23.583	15901.8115	5124.57	.	Q	.	.	V	.
23.667	15936.7646	5075.20	.	Q	.	.	V	.
23.750	15971.3672	5024.23	.	Q	.	.	V	.
23.833	16005.5986	4970.37	.	Q	.	.	V	.
23.917	16039.2109	4880.47	.	Q	.	.	V	.
24.000	16072.4131	4821.01	.	Q	.	.	V	.
24.083	16105.2500	4767.87	.	Q	.	.	V	.
24.167	16137.6816	4709.06	.	Q	.	.	V	.
24.250	16169.6875	4647.22	.	Q	.	.	V	.
24.333	16201.2627	4584.67	.	Q	.	.	V	.
24.417	16232.4102	4522.59	.	Q	.	.	V	.
24.500	16263.0977	4455.77	.	Q	.	.	V	.
24.583	16293.3115	4387.06	.	Q	.	.	V	.
24.667	16323.0566	4319.01	.	Q	.	.	V	.
24.750	16352.2637	4240.80	.	Q	.	.	V	.
24.833	16380.8701	4153.66	.	Q	.	.	V	.
24.917	16408.8379	4061.03	.	Q	.	.	V	.
25.000	16436.1074	3959.52	.	Q	.	.	V	.
25.083	16462.6523	3854.42	.	Q	.	.	V	.
25.167	16488.4961	3752.65	.	Q	.	.	V	.
25.250	16513.5566	3638.79	.	Q	.	.	V	.
25.333	16537.8125	3521.84	.	Q	.	.	V	.
25.417	16561.3574	3418.82	.	Q	.	.	V	.
25.500	16584.1250	3305.98	.	Q	.	.	V	.
25.583	16606.0195	3179.08	.	Q	.	.	V	.
25.667	16627.1719	3071.21	.	Q	.	.	V	.
25.750	16647.5625	2960.67	.	Q	.	.	V	.
25.833	16667.0977	2836.58	.	Q	.	.	V	.
25.917	16685.7012	2701.36	.	Q	.	.	V	.
26.000	16703.5156	2586.58	.	Q	.	.	V	.
26.083	16720.4883	2464.35	.	Q	.	.	V	.
26.167	16736.4785	2321.71	.	Q	.	.	V	.
26.250	16751.5059	2181.91	.	Q	.	.	V	.
26.333	16765.4668	2027.20	.	Q	.	.	V	.
26.417	16778.6172	1909.31	.	Q	.	.	V	.
26.500	16791.0273	1802.00	.	Q	.	.	V	.
26.583	16802.6289	1684.50	.	Q	.	.	V	.
26.667	16813.2559	1542.95	.	Q	.	.	V	.
26.750	16823.0352	1420.06	.	Q	.	.	V	.
26.833	16832.1172	1318.84	.	Q	.	.	V	.
26.917	16840.4570	1210.89	.	Q	.	.	V	.
27.000	16848.1621	1118.84	.	Q	.	.	V	.
27.083	16855.2246	1025.45	.	Q	.	.	V	.
27.167	16861.7246	943.85	.	Q	.	.	V	.
27.250	16867.7656	877.21	.	Q	.	.	V	.
27.333	16873.3516	811.00	.	Q	.	.	V	.
27.417	16878.4668	742.83	.	Q	.	.	V	.
27.500	16883.1426	679.02	.	Q	.	.	V	.
27.583	16887.4121	619.95	.	Q	.	.	V	.
27.667	16891.3066	565.52	.	Q	.	.	V	.
27.750	16894.8809	518.89	.	Q	.	.	V	.
27.833	16898.1621	476.31	.	Q	.	.	V	.
27.917	16901.1992	440.91	.	Q	.	.	V	.
28.000	16903.9980	406.42	.	Q	.	.	V	.
28.083	16906.5781	374.63	.	Q	.	.	V	.

28.167	16908.9453	343.70	Q	.	.	.	V	.
28.250	16911.1055	313.80	Q	.	.	.	V	.
28.333	16913.0742	285.92	Q	.	.	.	V	.
28.417	16914.8535	258.30	Q	.	.	.	V	.
28.500	16916.4668	234.31	Q	.	.	.	V	.
28.583	16917.9512	215.55	Q	.	.	.	V	.
28.667	16919.3086	196.96	Q	.	.	.	V	.
28.750	16920.5371	178.50	Q	.	.	.	V	.
28.833	16921.6484	161.28	Q	.	.	.	V	.
28.917	16922.6758	149.03	Q	.	.	.	V	.
29.000	16923.6230	137.43	Q	.	.	.	V	.
29.083	16924.4902	125.92	Q	.	.	.	V	.
29.167	16925.2793	114.49	Q	.	.	.	V	.
29.250	16925.9902	103.14	Q	.	.	.	V	.
29.333	16926.6230	91.87	Q	.	.	.	V	.
29.417	16927.1875	82.07	Q	.	.	.	V	.
29.500	16927.7266	78.30	Q	.	.	.	V	.
29.583	16928.2441	75.24	Q	.	.	.	V	.
29.667	16928.7422	72.19	Q	.	.	.	V	.
29.750	16929.2188	69.17	Q	.	.	.	V	.
29.833	16929.6738	66.17	Q	.	.	.	V	.
29.917	16930.1094	63.21	Q	.	.	.	V	.
30.000	16930.5254	60.28	Q	.	.	.	V	.
30.083	16930.9199	57.35	Q	.	.	.	V	.
30.167	16931.2949	54.44	Q	.	.	.	V	.
30.250	16931.6504	51.56	Q	.	.	.	V	.
30.333	16931.9863	48.69	Q	.	.	.	V	.
30.417	16932.3027	45.87	Q	.	.	.	V	.
30.500	16932.5996	43.04	Q	.	.	.	V	.
30.583	16932.8770	40.24	Q	.	.	.	V	.
30.667	16933.1348	37.47	Q	.	.	.	V	.
30.750	16933.3730	34.73	Q	.	.	.	V	.
30.833	16933.5938	32.00	Q	.	.	.	V	.
30.917	16933.7949	29.29	Q	.	.	.	V	.
31.000	16933.9785	26.60	Q	.	.	.	V	.
31.083	16934.1426	23.93	Q	.	.	.	V	.
31.167	16934.2891	21.27	Q	.	.	.	V	.
31.250	16934.4180	18.63	Q	.	.	.	V	.
31.333	16934.5273	16.01	Q	.	.	.	V	.
31.417	16934.6191	13.40	Q	.	.	.	V	.
31.500	16934.6934	10.81	Q	.	.	.	V	.
31.583	16934.7500	8.24	Q	.	.	.	V	.
31.667	16934.7891	5.68	Q	.	.	.	V	.
31.750	16934.8105	3.14	Q	.	.	.	V	.
31.833	16934.8145	0.61	Q	.	.	.	V	.

-----  
TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
(Note: 100% of Peak Flow Rate estimate assumed to have  
an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
=====	=====
0%	1910.0
10%	1430.0
20%	1150.0
30%	630.0
40%	485.0



50%	400.0
60%	345.0
70%	280.0
80%	225.0
90%	150.0

=====

END OF FLOODSCx ROUTING ANALYSIS

\*\*\*\*\*

FLOOD ROUTING ANALYSIS  
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)  
(c) Copyright 1989-2013 Advanced Engineering Software (aes)  
Ver. 20.0 Release Date: 06/01/2013 License ID 1237

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*  
\* RMV PA-3 ROMP AMENDMENT 2022 - NODE 134C \*  
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*  
\* 100-YR EV OCT 2022 ROKAMOTO \*  
\*\*\*\*\*

FILE NAME: EV0034CS.DAT  
TIME/DATE OF STUDY: 09:24 10/25/2022

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 134.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<

=====

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 66607.102 ACRES  
BASEFLOW = 0.000 CFS/SQUARE-MILE  
\*USER ENTERED "LAG" TIME = 2.378 HOURS  
VALLEY (DEVELOPED) S-GRAPH SELECTED  
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.284  
LOW LOSS FRACTION = 0.393  
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.48  
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.93  
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 1.28  
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 2.35  
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 3.46  
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 6.01

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:  
5-MINUTE FACTOR = 0.293  
30-MINUTE FACTOR = 0.352  
1-HOUR FACTOR = 0.397  
3-HOUR FACTOR = 0.740  
6-HOUR FACTOR = 0.887  
24-HOUR FACTOR = 0.933

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES  
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 3.504

UNIT HYDROGRAPH DETERMINATION

INTERVAL NUMBER	"S" GRAPH MEAN VALUES	UNIT HYDROGRAPH ORDINATES (CFS)
1	0.200	1613.057
2	0.601	3226.124
3	1.001	3226.117
4	1.402	3226.119
5	1.802	3226.148
6	2.309	4078.116
7	2.918	4909.309
8	3.527	4909.316
9	4.271	5991.788
10	5.373	8876.720
11	6.651	10296.212
12	8.194	12424.216
13	10.013	14658.040
14	11.779	14224.676
15	13.560	14343.396
16	15.928	19074.742
17	17.905	15925.208
18	19.807	15325.556
19	22.117	18607.869
20	24.605	20040.662
21	26.622	16247.611
22	28.887	18239.572
23	31.433	20510.732
24	34.444	24255.170
25	36.856	19429.734
26	39.570	21861.680
27	42.825	26220.766
28	46.015	25696.631
29	49.658	29348.592
30	52.457	22542.410
31	54.921	19847.795
32	57.526	20985.672
33	60.760	26049.609
34	63.954	25730.832
35	66.418	19844.998
36	68.902	20008.320
37	71.261	19004.359
38	73.451	17637.861
39	75.608	17381.340
40	77.299	13615.744
41	78.856	12546.085
42	80.440	12762.721
43	82.061	13050.094
44	83.551	12003.973
45	84.931	11117.271
46	86.203	10249.682
47	87.293	8778.277
48	88.281	7957.764

49	89.109	6666.982
50	89.925	6580.573
51	90.678	6060.954
52	91.416	5943.018
53	92.136	5800.561
54	92.806	5399.799
55	93.474	5378.535
56	94.085	4922.832
57	94.539	3658.968
58	94.984	3584.912
59	95.429	3584.912
60	95.870	3553.507
61	96.197	2630.914
62	96.472	2215.588
63	96.747	2213.375
64	97.022	2215.588
65	97.297	2213.375
66	97.571	2213.314
67	97.846	2213.375
68	98.029	1472.572
69	98.095	529.760
70	98.160	529.760
71	98.226	529.821
72	98.292	527.486
73	98.358	529.760
74	98.423	527.547
75	98.488	527.547
76	98.554	529.760
77	98.620	527.486
78	98.686	534.307
79	98.751	525.273
80	98.817	529.760
81	98.883	529.760
82	98.949	529.760
83	99.014	529.760
84	99.080	529.760
85	99.146	529.760
86	99.212	529.760
87	99.277	529.760
88	99.343	529.760
89	99.409	529.760
90	99.475	529.760
91	99.540	529.760
92	99.606	529.760
93	99.672	529.760
94	99.738	529.760
95	99.804	529.760
96	99.869	529.760
97	99.935	529.760
98	100.000	523.122

-----  
TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 12067.5186  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 19079.7012  
-----

=====

2 4 - 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 FIVE-MINUTE UNIT INTERVALS (CFS)  
(Note: Time indicated is at END of Each Unit Intervals)

TIME (HRS)	VOLUME (AF)	Q (CFS)	0.	5725.0	11450.0	17175.0	22900.0
0.083	0.0573	8.32	Q	.	.	.	.
0.167	0.2294	24.98	Q	.	.	.	.
0.250	0.5165	41.69	Q	.	.	.	.
0.333	0.9191	58.46	Q	.	.	.	.
0.417	1.4375	75.27	Q	.	.	.	.
0.500	2.1022	96.52	Q	.	.	.	.
0.583	2.9433	122.13	Q	.	.	.	.
0.667	3.9613	147.81	Q	.	.	.	.
0.750	5.1952	179.16	Q	.	.	.	.
0.833	6.7480	225.47	Q	.	.	.	.
0.917	8.6712	279.25	Q	.	.	.	.
1.000	11.0415	344.17	Q	.	.	.	.
1.083	13.9395	420.79	Q	.	.	.	.
1.167	17.3515	495.42	Q	.	.	.	.
1.250	21.2832	570.88	Q	.	.	.	.
1.333	25.9043	670.98	VQ	.	.	.	.
1.417	31.1048	755.12	VQ	.	.	.	.
1.500	36.8656	836.46	VQ	.	.	.	.
1.583	43.3047	934.96	VQ	.	.	.	.
1.667	50.4753	1041.17	VQ	.	.	.	.
1.750	58.2447	1128.11	VQ	.	.	.	.
1.833	66.6858	1225.65	V Q	.	.	.	.
1.917	75.8811	1335.16	V Q	.	.	.	.
2.000	85.9665	1464.39	V Q	.	.	.	.
2.083	96.7726	1569.05	V Q	.	.	.	.
2.167	108.3888	1686.69	V Q	.	.	.	.
2.250	120.9721	1827.08	V Q	.	.	.	.
2.333	134.5072	1965.30	V Q	.	.	.	.
2.417	149.1265	2122.72	V Q	.	.	.	.
2.500	164.5920	2245.60	V Q	.	.	.	.
2.583	180.8106	2354.93	V Q	.	.	.	.
2.667	197.8254	2470.55	V Q	.	.	.	.
2.750	215.8186	2612.62	V Q	.	.	.	.
2.833	234.7825	2753.55	V Q	.	.	.	.
2.917	254.5107	2864.54	V Q	.	.	.	.
3.000	275.0121	2976.81	V Q	.	.	.	.
3.083	296.2534	3084.23	V Q	.	.	.	.
3.167	318.1889	3185.03	V Q	.	.	.	.
3.250	340.8116	3284.82	V Q	.	.	.	.
3.333	363.9906	3365.58	V Q	.	.	.	.
3.417	387.6896	3441.10	V Q	.	.	.	.
3.500	411.9186	3518.05	V Q	.	.	.	.
3.583	436.6896	3596.75	V Q	.	.	.	.
3.667	461.9678	3670.40	V Q	.	.	.	.
3.750	487.7234	3739.72	.V Q	.	.	.	.
3.833	513.9279	3804.88	.V Q	.	.	.	.
3.917	540.5304	3862.69	.V Q	.	.	.	.

4.000	567.5039	3916.55	.V	Q	.	.	.	.
4.083	594.8039	3963.95	.V	Q	.	.	.	.
4.167	622.4291	4011.19	.V	Q	.	.	.	.
4.250	650.3624	4055.92	.V	Q	.	.	.	.
4.333	678.6014	4100.30	.V	Q	.	.	.	.
4.417	707.1423	4144.13	.V	Q	.	.	.	.
4.500	735.9725	4186.15	.V	Q	.	.	.	.
4.583	765.0927	4228.24	.V	Q	.	.	.	.
4.667	794.4883	4268.25	.V	Q	.	.	.	.
4.750	824.1157	4301.90	.V	Q	.	.	.	.
4.833	853.9739	4335.42	.V	Q	.	.	.	.
4.917	884.0641	4369.09	.V	Q	.	.	.	.
5.000	914.3868	4402.86	.V	Q	.	.	.	.
5.083	944.9103	4432.02	.V	Q	.	.	.	.
5.167	975.6218	4459.30	.V	Q	.	.	.	.
5.250	1006.5219	4486.69	.V	Q	.	.	.	.
5.333	1037.6124	4514.35	.V	Q	.	.	.	.
5.417	1068.8943	4542.13	.V	Q	.	.	.	.
5.500	1100.3694	4570.19	.V	Q	.	.	.	.
5.583	1132.0387	4598.38	.V	Q	.	.	.	.
5.667	1163.8777	4623.02	.V	Q	.	.	.	.
5.750	1195.8538	4642.93	.V	Q	.	.	.	.
5.833	1227.9688	4663.10	.V	Q	.	.	.	.
5.917	1260.2235	4683.39	.V	Q	.	.	.	.
6.000	1292.6198	4703.94	.V	Q	.	.	.	.
6.083	1325.1584	4724.62	.V	Q	.	.	.	.
6.167	1357.8414	4745.57	.V	Q	.	.	.	.
6.250	1390.6696	4766.65	.V	Q	.	.	.	.
6.333	1423.6449	4788.02	.V	Q	.	.	.	.
6.417	1456.7683	4809.52	.V	Q	.	.	.	.
6.500	1490.0420	4831.34	.V	Q	.	.	.	.
6.583	1523.4667	4853.27	.V	Q	.	.	.	.
6.667	1557.0446	4875.51	.V	Q	.	.	.	.
6.750	1590.7767	4897.91	.V	Q	.	.	.	.
6.833	1624.6653	4920.62	.V	Q	.	.	.	.
6.917	1658.7113	4943.48	.V	Q	.	.	.	.
7.000	1692.9170	4966.67	.V	Q	.	.	.	.
7.083	1727.2836	4990.02	.V	Q	.	.	.	.
7.167	1761.8132	5013.70	.V	Q	.	.	.	.
7.250	1796.5072	5037.56	.V	Q	.	.	.	.
7.333	1831.3679	5061.77	.V	Q	.	.	.	.
7.417	1866.3965	5086.15	.V	Q	.	.	.	.
7.500	1901.5955	5110.88	.V	Q	.	.	.	.
7.583	1936.9661	5135.81	.V	Q	.	.	.	.
7.667	1972.5109	5161.11	.V	Q	.	.	.	.
7.750	2008.2312	5186.60	.V	Q	.	.	.	.
7.833	2044.1298	5212.48	.V	Q	.	.	.	.
7.917	2080.2080	5238.56	.V	Q	.	.	.	.
8.000	2116.4688	5265.05	.V	Q	.	.	.	.
8.083	2152.9133	5291.74	.V	Q	.	.	.	.
8.167	2189.5444	5318.82	.V	Q	.	.	.	.
8.250	2226.3450	5343.43	.V	Q	.	.	.	.
8.333	2263.3179	5368.47	.V	Q	.	.	.	.
8.417	2300.4648	5393.73	.V	Q	.	.	.	.
8.500	2337.7888	5419.43	.V	Q	.	.	.	.
8.583	2375.2913	5445.37	.V	Q	.	.	.	.
8.667	2412.9756	5471.78	.V	Q	.	.	.	.
8.750	2450.8435	5498.43	.V	Q	.	.	.	.

8.833	2488.8984	5525.58	.	V	Q	.	.	.
8.917	2527.1421	5552.97	.	V	Q	.	.	.
9.000	2565.5779	5580.89	.	V	Q	.	.	.
9.083	2604.2078	5609.07	.	V	Q	.	.	.
9.167	2643.0354	5637.78	.	V	Q	.	.	.
9.250	2682.0627	5666.78	.	V	Q	.	.	.
9.333	2721.2937	5696.35	.	V	Q	.	.	.
9.417	2760.7305	5726.21	.	V	Q	.	.	.
9.500	2800.3767	5756.65	.	V	Q	.	.	.
9.583	2840.2349	5787.42	.	V	Q	.	.	.
9.667	2880.3091	5818.79	.	V	Q	.	.	.
9.750	2920.6018	5850.51	.	V	Q	.	.	.
9.833	2961.1174	5882.86	.	V	Q	.	.	.
9.917	3001.8584	5915.58	.	V	Q	.	.	.
10.000	3042.8291	5948.96	.	V	Q	.	.	.
10.083	3084.0325	5982.74	.	V	Q	.	.	.
10.167	3125.4734	6017.21	.	V	Q	.	.	.
10.250	3167.1545	6052.10	.	V	Q	.	.	.
10.333	3209.0811	6087.72	.	V	Q	.	.	.
10.417	3251.2559	6123.78	.	V	Q	.	.	.
10.500	3293.6843	6160.61	.	V	Q	.	.	.
10.583	3336.3696	6197.91	.	V	Q	.	.	.
10.667	3379.3176	6236.04	.	V	Q	.	.	.
10.750	3422.5315	6274.66	.	V	Q	.	.	.
10.833	3466.0173	6314.14	.	V	Q	.	.	.
10.917	3509.7788	6354.15	.	V	Q	.	.	.
11.000	3553.8220	6395.08	.	V	Q	.	.	.
11.083	3598.1509	6436.57	.	V	Q	.	.	.
11.167	3642.7722	6479.03	.	V	Q	.	.	.
11.250	3687.6902	6522.10	.	V	Q	.	.	.
11.333	3732.9119	6566.20	.	V	Q	.	.	.
11.417	3778.4419	6610.95	.	V	Q	.	.	.
11.500	3824.2876	6656.79	.	V	Q	.	.	.
11.583	3870.4539	6703.33	.	V	Q	.	.	.
11.667	3916.9485	6751.03	.	V	Q	.	.	.
11.750	3963.7769	6799.49	.	V	Q	.	.	.
11.833	4010.9475	6849.19	.	V	Q	.	.	.
11.917	4058.4661	6899.70	.	V	Q	.	.	.
12.000	4106.3418	6951.54	.	V	Q	.	.	.
12.083	4154.6909	7020.27	.	V	Q	.	.	.
12.167	4203.6328	7106.37	.	V	Q	.	.	.
12.250	4253.1733	7193.25	.	V	Q	.	.	.
12.333	4303.3213	7281.46	.	V	Q	.	.	.
12.417	4354.0825	7370.51	.	V	Q	.	.	.
12.500	4405.5249	7469.45	.	V	Q	.	.	.
12.583	4457.7119	7577.53	.	V	Q	.	.	.
12.667	4510.6528	7687.05	.	V	Q	.	.	.
12.750	4564.4282	7808.21	.	V	Q	.	.	.
12.833	4619.2461	7959.53	.	V	Q	.	.	.
12.917	4675.2085	8125.73	.	V	Q	.	.	.
13.000	4732.4702	8314.43	.	V	Q	.	.	.
13.083	4791.1890	8525.99	.	V	Q	.	.	.
13.167	4851.3438	8734.47	.	V	Q	.	.	.
13.250	4912.9468	8944.73	.	V	Q	.	.	.
13.333	4976.3306	9203.33	.	V	Q	.	.	.
13.417	5041.2832	9431.14	.	V	Q	.	.	.
13.500	5107.7725	9654.23	.	V	Q	.	.	.
13.583	5176.0278	9910.70	.	V	Q	.	.	.

13.667	5246.1562	10182.66	.	V	Q	.	.	.
13.750	5317.9023	10417.55	.	.V	Q	.	.	.
13.833	5391.4121	10673.64	.	.V	Q	.	.	.
13.917	5466.8472	10953.15	.	.V	Q.	.	.	.
14.000	5544.4722	11271.16	.	.V	Q.	.	.	.
14.083	5624.0586	11555.97	.	.V	Q	.	.	.
14.167	5705.8765	11879.93	.	.V	Q	.	.	.
14.250	5790.2227	12247.05	.	.V	.Q	.	.	.
14.333	5877.0610	12608.91	.	.V	.Q	.	.	.
14.417	5966.6382	13006.63	.	.V	.Q	.	.	.
14.500	6058.5396	13344.08	.	.V	.Q	.	.	.
14.583	6152.6265	13661.39	.	.V	.Q	.	.	.
14.667	6248.9756	13989.91	.	.V	.Q	.	.	.
14.750	6347.9922	14377.24	.	.V	.Q	.	.	.
14.833	6449.8237	14785.94	.	.V	.Q	.	.	.
14.917	6554.1353	15146.04	.	.V	.Q	.	.	.
15.000	6661.0508	15524.16	.	.V	.Q	.	.	.
15.083	6770.6118	15908.29	.	.V	.Q	.	.	.
15.167	6882.6729	16271.23	.	.V	.Q	.	.	.
15.250	6997.1909	16628.00	.	.V	.Q	.	.	.
15.333	7114.1650	16984.63	.	.V	.Q	.	.	.
15.417	7233.1558	17277.43	.	.V	.Q	.	.	.
15.500	7353.9775	17543.33	.	.V	.Q	.	.	.
15.583	7476.8442	17840.24	.	.V	.Q	.	.	.
15.667	7601.7598	18137.70	.	.V	.Q	.	.	.
15.750	7728.3721	18384.11	.	.V	.Q	.	.	.
15.833	7856.6201	18621.58	.	.V	.Q	.	.	.
15.917	7986.5352	18863.69	.	.V	.Q	.	.	.
16.000	8118.4165	19149.14	.	.V	.Q	.	.	.
16.083	8252.7949	19511.78	.	.V	.Q	.	.	.
16.167	8389.3711	19830.87	.	.V	.Q	.	.	.
16.250	8527.1562	20006.39	.	.V	.Q	.	.	.
16.333	8665.9277	20149.61	.	.V	.Q	.	.	.
16.417	8805.8721	20319.86	.	.V	.Q	.	.	.
16.500	8947.2021	20521.14	.	.V	.Q	.	.	.
16.583	9089.7373	20696.05	.	.V	.Q	.	.	.
16.667	9232.7139	20760.16	.	.V	.Q	.	.	.
16.750	9377.4492	21015.56	.	.V	.Q	.	.	.
16.833	9525.2012	21453.63	.	.V	.Q	.	.	.
16.917	9674.4824	21675.70	.	.V	.Q	.	.	.
17.000	9825.4316	21917.85	.	.V	.Q	.	.	.
17.083	9978.1934	22181.00	.	.V	.Q	.	.	.
17.167	10131.0312	22192.08	.	.V	.Q	.	.	.
17.250	10284.1836	22237.74	.	.V	.Q	.	.	.
17.333	10439.7373	22586.42	.	.V	.Q	.	.	.
17.417	10593.5039	22326.94	.	.V	.Q	.	.	.
17.500	10747.1748	22313.00	.	.V	.Q	.	.	.
17.583	10902.4834	22550.84	.	.V	.Q	.	.	.
17.667	11058.3105	22626.06	.	.V	.Q	.	.	.
17.750	11211.2129	22201.47	.	.V	.Q	.	.	.
17.833	11365.3955	22387.37	.	.V	.Q	.	.	.
17.917	11521.0830	22605.88	.	.V	.Q	.	.	.
18.000	11678.7188	22888.70	.	.V	.Q	.	.	.
18.083	11832.1016	22271.12	.	.V	.Q	.	.	.
18.167	11986.3408	22395.59	.	.V	.Q	.	.	.
18.250	12143.1211	22764.50	.	.V	.Q	.	.	.
18.333	12299.1377	22653.66	.	.V	.Q	.	.	.
18.417	12456.0762	22787.53	.	.V	.Q	.	.	.

18.500	12607.6396	22007.07	.	.	.	V	.	Q	.
18.583	12757.3213	21733.72	.	.	.	V	.	Q	.
18.667	12907.8975	21863.71	.	.	.	V	.	Q	.
18.750	13061.8672	22356.39	.	.	.	V	.	Q	.
18.833	13214.5254	22166.04	.	.	.	V	.	Q	.
18.917	13362.0518	21420.77	.	.	.	V	.	Q	.
19.000	13508.1025	21206.63	.	.	.	V	.	Q	.
19.083	13652.4092	20953.27	.	.	.	V	.	Q	.
19.167	13794.6465	20652.92	.	.	.	V	.	Q	.
19.250	13934.6885	20334.10	.	.	.	V	.	Q	.
19.333	14070.2168	19678.72	.	.	.	V	.	Q	.
19.417	14203.1299	19299.02	.	.	.	V	.	Q	.
19.500	14334.5293	19079.15	.	.	.	V	.	Q	.
19.583	14464.3369	18848.13	.	.	.	V	.	Q	.
19.667	14591.1445	18412.47	.	.	.	V	.	Q	.
19.750	14714.7939	17953.91	.	.	.	V	.	Q	.
19.833	14835.0947	17467.71	.	.	.	V	.	Q	.
19.917	14951.8613	16954.44	.	.	.	V	.	Q	.
20.000	15065.1924	16455.64	.	.	.	V	.	Q	.
20.083	15175.2676	15982.90	.	.	.	V	.	Q	.
20.167	15282.7148	15601.32	.	.	.	V	.	Q	.
20.250	15386.8125	15114.96	.	.	.	V	.	Q	.
20.333	15488.0078	14693.58	.	.	.	V	.	Q	.
20.417	15586.0703	14238.73	.	.	.	V	.	Q	.
20.500	15681.2900	13825.92	.	.	.	V	.	Q	.
20.583	15773.9375	13452.42	.	.	.	V	.	Q	.
20.667	15863.6396	13024.79	.	.	.	V	.	Q	.
20.750	15949.6660	12490.96	.	.	.	V	.	Q	.
20.833	16032.8457	12077.75	.	.	.	V	.	Q	.
20.917	16113.6758	11736.49	.	.	.	V	.	Q	.
21.000	16192.1582	11395.66	.	.	.	V	.	Q	.
21.083	16267.8828	10995.21	.	.	.	V	.	Q	.
21.167	16341.3057	10660.99	.	.	.	V	.	Q	.
21.250	16412.7422	10372.68	.	.	.	V	.	Q	.
21.333	16482.4902	10127.48	.	.	.	V	.	Q	.
21.417	16550.5820	9886.82	.	.	.	V	.	Q	.
21.500	16616.9512	9636.71	.	.	.	V	.	Q	.
21.583	16681.4941	9371.76	.	.	.	V	.	Q	.
21.667	16743.8301	9051.07	.	.	.	V	.	Q	.
21.750	16804.0430	8743.05	.	.	.	V	.	Q	.
21.833	16862.8418	8537.61	.	.	.	V	.	Q	.
21.917	16920.3535	8350.82	.	.	.	V	.	Q	.
22.000	16976.6074	8167.98	.	.	.	V	.	Q	.
22.083	17031.6836	7996.99	.	.	.	V	.	Q	.
22.167	17085.6172	7831.09	.	.	.	V	.	Q	.
22.250	17138.4219	7667.33	.	.	.	V	.	Q	.
22.333	17190.1191	7506.31	.	.	.	V	.	Q	.
22.417	17240.7246	7347.80	.	.	.	V	.	Q	.
22.500	17290.2793	7195.36	.	.	.	V	.	Q	.
22.583	17338.7852	7043.11	.	.	.	V	.	Q	.
22.667	17386.3379	6904.56	.	.	.	V	.	Q	.
22.750	17433.0898	6788.35	.	.	.	V	.	Q	.
22.833	17479.0625	6675.36	.	.	.	V	.	Q	.
22.917	17524.2734	6564.58	.	.	.	V	.	Q	.
23.000	17568.7383	6456.28	.	.	.	V	.	Q	.
23.083	17612.5352	6359.25	.	.	.	V	.	Q	.
23.167	17655.7051	6268.35	.	.	.	V	.	Q	.
23.250	17698.2637	6179.50	.	.	.	V	.	Q	.

23.333	17740.2227	6092.44	.	Q	.	.	V	.
23.417	17781.5957	6007.29	.	Q	.	.	V	.
23.500	17822.3926	5923.83	.	Q	.	.	V	.
23.583	17862.6719	5848.56	.	Q	.	.	V	.
23.667	17902.4902	5781.70	.	Q	.	.	V	.
23.750	17941.9180	5724.91	.	Q.	.	.	V	.
23.833	17980.9609	5669.09	.	Q.	.	.	V	.
23.917	18019.6406	5616.17	.	Q.	.	.	V	.
24.000	18057.9570	5563.54	.	Q.	.	.	V	.
24.083	18095.8379	5500.22	.	Q.	.	.	V	.
24.167	18133.2012	5425.02	.	Q.	.	.	V	.
24.250	18169.7520	5307.28	.	Q.	.	.	V	.
24.333	18205.8496	5241.46	.	Q.	.	.	V	.
24.417	18241.5039	5177.00	.	Q.	.	.	V	.
24.500	18276.6992	5110.45	.	Q	.	.	V	.
24.583	18311.3750	5034.86	.	Q.	.	.	V	.
24.667	18345.5332	4959.85	.	Q.	.	.	V	.
24.750	18379.1406	4879.92	.	Q.	.	.	V	.
24.833	18412.1016	4785.81	.	Q.	.	.	V	.
24.917	18444.3691	4685.17	.	Q.	.	.	V	.
25.000	18475.8730	4574.39	.	Q	.	.	V	.
25.083	18506.5410	4452.97	.	Q.	.	.	V	.
25.167	18536.3945	4334.75	.	Q.	.	.	V	.
25.250	18565.4688	4221.48	.	Q.	.	.	V	.
25.333	18593.6035	4085.07	.	Q.	.	.	V	.
25.417	18620.9180	3966.19	.	Q	.	.	V	.
25.500	18647.4434	3851.57	.	Q.	.	.	V	.
25.583	18673.0723	3721.18	.	Q.	.	.	V	.
25.667	18697.7598	3584.59	.	Q.	.	.	V	.
25.750	18721.6484	3468.73	.	Q	.	.	V	.
25.833	18744.6758	3343.66	.	Q	.	.	V	.
25.917	18766.7695	3207.97	.	Q	.	.	V	.
26.000	18787.8027	3054.11	.	Q	.	.	V	.
26.083	18807.9570	2926.29	.	Q	.	.	V	.
26.167	18827.1523	2787.05	.	Q	.	.	V	.
26.250	18845.2773	2631.64	.	Q	.	.	V	.
26.333	18862.3574	2480.17	.	Q	.	.	V	.
26.417	18878.2734	2311.07	.	Q	.	.	V	.
26.500	18893.2754	2178.29	.	Q	.	.	V	.
26.583	18907.4648	2060.42	.	Q	.	.	V	.
26.667	18920.8086	1937.61	.	Q	.	.	V	.
26.750	18933.1348	1789.66	.	Q	.	.	V	.
26.833	18944.4609	1644.43	.	Q	.	.	V	.
26.917	18955.0020	1530.54	.	Q	.	.	V	.
27.000	18964.7578	1416.64	.	Q	.	.	V	.
27.083	18973.7715	1308.74	.	Q	.	.	V	.
27.167	18982.0957	1208.65	.	Q	.	.	V	.
27.250	18989.7441	1110.60	.	Q	.	.	V	.
27.333	18996.8555	1032.64	.	Q	.	.	V	.
27.417	19003.4727	960.76	.	Q	.	.	V	.
27.500	19009.5898	888.28	.	Q	.	.	V	.
27.583	19015.2012	814.84	.	Q	.	.	V	.
27.667	19020.3477	747.30	.	Q	.	.	V	.
27.750	19025.0645	684.81	.	Q	.	.	V	.
27.833	19029.3848	627.22	.	Q	.	.	V	.
27.917	19033.3633	577.62	.	Q	.	.	V	.
28.000	19037.0312	532.59	.	Q	.	.	V	.
28.083	19040.4375	494.52	.	Q	.	.	V	.

28.167	19043.5859	457.18	Q	.	.	.	V.	.
28.250	19046.4980	422.78	Q	.	.	.	V.	.
28.333	19049.1777	389.23	Q	.	.	.	V.	.
28.417	19051.6348	356.65	Q	.	.	.	V.	.
28.500	19053.8828	326.36	Q	.	.	.	V.	.
28.583	19055.9238	296.39	Q	.	.	.	V.	.
28.667	19057.7754	268.97	Q	.	.	.	V.	.
28.750	19059.4844	248.25	Q	.	.	.	V.	.
28.833	19061.0547	228.06	Q	.	.	.	V.	.
28.917	19062.4863	208.01	Q	.	.	.	V.	.
29.000	19063.7832	188.26	Q	.	.	.	V.	.
29.083	19064.9766	173.39	Q	.	.	.	V.	.
29.167	19066.0840	160.77	Q	.	.	.	V.	.
29.250	19067.1055	148.25	Q	.	.	.	V.	.
29.333	19068.0410	135.81	Q	.	.	.	V.	.
29.417	19068.8906	123.46	Q	.	.	.	V.	.
29.500	19069.6562	111.20	Q	.	.	.	V.	.
29.583	19070.3379	99.03	Q	.	.	.	V.	.
29.667	19070.9629	90.75	Q	.	.	.	V.	.
29.750	19071.5645	87.38	Q	.	.	.	V.	.
29.833	19072.1426	84.04	Q	.	.	.	V.	.
29.917	19072.6992	80.73	Q	.	.	.	V.	.
30.000	19073.2324	77.45	Q	.	.	.	V.	.
30.083	19073.7441	74.19	Q	.	.	.	V.	.
30.167	19074.2324	70.97	Q	.	.	.	V.	.
30.250	19074.6992	67.78	Q	.	.	.	V.	.
30.333	19075.1445	64.60	Q	.	.	.	V.	.
30.417	19075.5684	61.45	Q	.	.	.	V.	.
30.500	19075.9707	58.29	Q	.	.	.	V.	.
30.583	19076.3516	55.20	Q	.	.	.	V.	.
30.667	19076.7109	52.11	Q	.	.	.	V.	.
30.750	19077.0488	49.05	Q	.	.	.	V.	.
30.833	19077.3652	46.00	Q	.	.	.	V.	.
30.917	19077.6621	42.98	Q	.	.	.	V.	.
31.000	19077.9375	39.98	Q	.	.	.	V.	.
31.083	19078.1914	37.00	Q	.	.	.	V.	.
31.167	19078.4258	34.04	Q	.	.	.	V.	.
31.250	19078.6406	31.10	Q	.	.	.	V.	.
31.333	19078.8340	28.18	Q	.	.	.	V.	.
31.417	19079.0078	25.28	Q	.	.	.	V.	.
31.500	19079.1621	22.39	Q	.	.	.	V.	.
31.583	19079.2969	19.53	Q	.	.	.	V.	.
31.667	19079.4121	16.68	Q	.	.	.	V.	.
31.750	19079.5078	13.85	Q	.	.	.	V.	.
31.833	19079.5840	11.04	Q	.	.	.	V.	.
31.917	19079.6406	8.25	Q	.	.	.	V.	.
32.000	19079.6777	5.47	Q	.	.	.	V.	.
32.083	19079.6973	2.71	Q	.	.	.	V.	.

-----  
TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
(Note: 100% of Peak Flow Rate estimate assumed to have  
an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
=====	=====
0%	1925.0
10%	1435.0

20%	1165.0
30%	650.0
40%	500.0
50%	415.0
60%	355.0
70%	295.0
80%	240.0
90%	160.0

=====  
END OF FLOODSCx ROUTING ANALYSIS

\*\*\*\*\*

FLOOD ROUTING ANALYSIS  
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)  
(c) Copyright 1989-2013 Advanced Engineering Software (aes)  
Ver. 20.0 Release Date: 06/01/2013 License ID 1264

Analysis prepared by:

Michael Baker International  
5 Hutton Centre Drive, Suite 500  
Santa Ana, CA 92707

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*  
\* RANCHO MISSION VIEJO - SINGLE AREA UH \*  
\* ULTIMATE CONDITION - REGIONAL NODE 134T \*  
\* 100-YR EV SEPTEMBER 2018 CCHI \*  
\*\*\*\*\*

FILE NAME: EV0034TS.DAT  
TIME/DATE OF STUDY: 09:27 09/27/2018

\*\*\*\*\*

FLOW PROCESS FROM NODE 13500.00 TO NODE 134.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<

\*\*\*\*\*

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 3859.700 ACRES  
BASEFLOW = 0.000 CFS/SQUARE-MILE  
\*USER ENTERED "LAG" TIME = 1.252 HOURS  
VALLEY (DEVELOPED) S-GRAPH SELECTED  
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.284  
LOW LOSS FRACTION = 0.408  
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.40  
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.87  
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 1.15  
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 1.94  
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 2.71  
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 4.49

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:  
5-MINUTE FACTOR = 0.828  
30-MINUTE FACTOR = 0.828  
1-HOUR FACTOR = 0.828  
3-HOUR FACTOR = 0.974  
6-HOUR FACTOR = 0.987  
24-HOUR FACTOR = 0.992

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES  
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 6.656

UNIT HYDROGRAPH DETERMINATION

INTERVAL NUMBER	"S" GRAPH MEAN VALUES	UNIT HYDROGRAPH ORDINATES (CFS)
1	0.380	177.538
2	1.141	355.076
3	1.929	367.811
4	3.008	503.662
5	4.367	634.172
6	6.601	1043.107
7	9.721	1456.072
8	13.136	1594.051
9	17.221	1906.742
10	21.055	1789.901
11	25.499	2074.514
12	29.756	1987.148
13	35.003	2449.106
14	40.040	2351.261
15	46.242	2894.908
16	52.299	2827.075
17	57.131	2255.431
18	63.106	2789.185
19	68.001	2284.925
20	72.435	2069.620
21	76.349	1827.030
22	79.387	1418.168
23	82.406	1408.955
24	85.105	1260.105
25	87.323	1035.196
26	89.054	808.030
27	90.554	700.127
28	91.941	647.638
29	93.228	600.583
30	94.328	513.506
31	95.176	395.781
32	95.976	373.655
33	96.535	260.795
34	97.057	243.673
35	97.579	243.673
36	98.005	199.018
37	98.149	67.048
38	98.274	58.145
39	98.399	58.351
40	98.523	58.074
41	98.648	58.351
42	98.773	58.212
43	98.898	58.212
44	99.023	58.351
45	99.147	58.212
46	99.272	58.212
47	99.397	58.212
48	99.521	58.212



49	99.646	58.212
50	99.771	58.212
51	99.896	58.212
52	100.000	48.775

-----  
TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 535.3984  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 897.1114  
-----

=====  
2 4 - 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 FIVE-MINUTE UNIT INTERVALS (CFS)  
(Note: Time indicated is at END of Each Unit Intervals)

TIME (HRS)	VOLUME (AF)	Q (CFS)	0.	600.0	1200.0	1800.0	2400.0
0.083	0.0041	0.60	Q	.	.	.	.
0.167	0.0165	1.80	Q	.	.	.	.
0.250	0.0375	3.04	Q	.	.	.	.
0.333	0.0702	4.75	Q	.	.	.	.
0.417	0.1178	6.91	Q	.	.	.	.
0.500	0.1897	10.45	Q	.	.	.	.
0.583	0.2957	15.39	Q	.	.	.	.
0.667	0.4391	20.82	Q	.	.	.	.
0.750	0.6273	27.32	Q	.	.	.	.
0.833	0.8576	33.44	Q	.	.	.	.
0.917	1.1369	40.55	Q	.	.	.	.
1.000	1.4632	47.39	Q	.	.	.	.
1.083	1.8476	55.81	Q	.	.	.	.
1.167	2.2878	63.92	VQ	.	.	.	.
1.250	2.7968	73.90	VQ	.	.	.	.
1.333	3.3731	83.68	VQ	.	.	.	.
1.417	4.0037	91.57	VQ	.	.	.	.
1.500	4.7013	101.29	VQ	.	.	.	.
1.583	5.4543	109.34	VQ	.	.	.	.
1.667	6.2580	116.69	VQ	.	.	.	.
1.750	7.1068	123.25	V Q	.	.	.	.
1.833	7.9915	128.46	V Q	.	.	.	.
1.917	8.9120	133.65	V Q	.	.	.	.
2.000	9.8649	138.37	V Q	.	.	.	.
2.083	10.8452	142.34	V Q	.	.	.	.
2.167	11.8477	145.56	V Q	.	.	.	.
2.250	12.8700	148.43	V Q	.	.	.	.
2.333	13.9109	151.14	V Q	.	.	.	.
2.417	14.9695	153.70	V Q	.	.	.	.
2.500	16.0437	155.98	V Q	.	.	.	.
2.583	17.1311	157.88	V Q	.	.	.	.
2.667	18.2309	159.70	V Q	.	.	.	.
2.750	19.3409	161.16	V Q	.	.	.	.
2.833	20.4605	162.57	V Q	.	.	.	.
2.917	21.5899	163.99	V Q	.	.	.	.
3.000	22.7280	165.26	.VQ	.	.	.	.
3.083	23.8720	166.10	.VQ	.	.	.	.
3.167	25.0215	166.91	.VQ	.	.	.	.
3.250	26.1767	167.73	.VQ	.	.	.	.
3.333	27.3375	168.56	.VQ	.	.	.	.
3.417	28.5042	169.39	.VQ	.	.	.	.
3.500	29.6766	170.23	.VQ	.	.	.	.
3.583	30.8548	171.08	.VQ	.	.	.	.
3.667	32.0390	171.94	.VQ	.	.	.	.
3.750	33.2290	172.80	.VQ	.	.	.	.
3.833	34.4251	173.67	.VQ	.	.	.	.
3.917	35.6272	174.55	.VQ	.	.	.	.

4.000	36.8354	175.43	.VQ	.	.	.	.
4.083	38.0498	176.33	.VQ	.	.	.	.
4.167	39.2704	177.22	.VQ	.	.	.	.
4.250	40.4972	178.13	.VQ	.	.	.	.
4.333	41.7301	179.02	.VQ	.	.	.	.
4.417	42.9680	179.75	.VQ	.	.	.	.
4.500	44.2110	180.48	.V Q	.	.	.	.
4.583	45.4591	181.23	. VQ	.	.	.	.
4.667	46.7124	181.98	. VQ	.	.	.	.
4.750	47.9709	182.74	. VQ	.	.	.	.
4.833	49.2348	183.51	. VQ	.	.	.	.
4.917	50.5039	184.28	. VQ	.	.	.	.
5.000	51.7785	185.07	. VQ	.	.	.	.
5.083	53.0586	185.86	. VQ	.	.	.	.
5.167	54.3441	186.66	. VQ	.	.	.	.
5.250	55.6353	187.48	. VQ	.	.	.	.
5.333	56.9321	188.30	. VQ	.	.	.	.
5.417	58.2347	189.13	. VQ	.	.	.	.
5.500	59.5430	189.97	. VQ	.	.	.	.
5.583	60.8572	190.82	. VQ	.	.	.	.
5.667	62.1773	191.68	. VQ	.	.	.	.
5.750	63.5034	192.55	. VQ	.	.	.	.
5.833	64.8355	193.43	. VQ	.	.	.	.
5.917	66.1738	194.32	. VQ	.	.	.	.
6.000	67.5183	195.22	. Q	.	.	.	.
6.083	68.8691	196.13	. Q	.	.	.	.
6.167	70.2262	197.05	. Q	.	.	.	.
6.250	71.5898	197.99	. Q	.	.	.	.
6.333	72.9598	198.94	. Q	.	.	.	.
6.417	74.3365	199.90	. Q	.	.	.	.
6.500	75.7199	200.86	. Q	.	.	.	.
6.583	77.1100	201.85	. Q	.	.	.	.
6.667	78.5070	202.84	. Q	.	.	.	.
6.750	79.9109	203.85	. Q	.	.	.	.
6.833	81.3219	204.87	. Q	.	.	.	.
6.917	82.7399	205.91	. Q	.	.	.	.
7.000	84.1652	206.95	. Q	.	.	.	.
7.083	85.5978	208.01	. Q	.	.	.	.
7.167	87.0378	209.09	. Q	.	.	.	.
7.250	88.4854	210.18	. Q	.	.	.	.
7.333	89.9405	211.28	. QV	.	.	.	.
7.417	91.4034	212.41	. QV	.	.	.	.
7.500	92.8740	213.54	. QV	.	.	.	.
7.583	94.3526	214.70	. QV	.	.	.	.
7.667	95.8393	215.86	. QV	.	.	.	.
7.750	97.3341	217.05	. QV	.	.	.	.
7.833	98.8372	218.25	. QV	.	.	.	.
7.917	100.3487	219.47	. QV	.	.	.	.
8.000	101.8687	220.70	. QV	.	.	.	.
8.083	103.3974	221.96	. QV	.	.	.	.
8.167	104.9348	223.23	. QV	.	.	.	.
8.250	106.4812	224.53	. QV	.	.	.	.
8.333	108.0365	225.84	. QV	.	.	.	.
8.417	109.6011	227.18	. QV	.	.	.	.
8.500	111.1750	228.53	. QV	.	.	.	.
8.583	112.7584	229.90	. Q V	.	.	.	.
8.667	114.3513	231.30	. Q V	.	.	.	.
8.750	115.9541	232.72	. Q V	.	.	.	.

8.833	117.5667	234.16	. Q V	.	.	.	.
8.917	119.1895	235.63	. Q V	.	.	.	.
9.000	120.8225	237.11	. Q V	.	.	.	.
9.083	122.4659	238.63	. Q V	.	.	.	.
9.167	124.1199	240.16	. QV	.	.	.	.
9.250	125.7848	241.73	. QV	.	.	.	.
9.333	127.4605	243.32	. QV	.	.	.	.
9.417	129.1475	244.94	. QV	.	.	.	.
9.500	130.8457	246.59	. QV	.	.	.	.
9.583	132.5556	248.27	. QV	.	.	.	.
9.667	134.2771	249.97	. QV	.	.	.	.
9.750	136.0107	251.71	. Q V	.	.	.	.
9.833	137.7564	253.48	. Q V	.	.	.	.
9.917	139.5145	255.28	. Q V	.	.	.	.
10.000	141.2853	257.11	. Q V	.	.	.	.
10.083	143.0690	258.99	. Q V	.	.	.	.
10.167	144.8658	260.89	. Q V	.	.	.	.
10.250	146.6759	262.84	. Q V	.	.	.	.
10.333	148.4997	264.82	. Q V	.	.	.	.
10.417	150.3375	266.84	. Q V	.	.	.	.
10.500	152.1894	268.90	. Q V	.	.	.	.
10.583	154.0558	271.01	. Q V	.	.	.	.
10.667	155.9370	273.15	. Q V	.	.	.	.
10.750	157.8333	275.34	. Q V	.	.	.	.
10.833	159.7450	277.58	. Q V	.	.	.	.
10.917	161.6725	279.87	. Q V	.	.	.	.
11.000	163.6160	282.20	. Q V	.	.	.	.
11.083	165.5760	284.59	. Q V	.	.	.	.
11.167	167.5528	287.03	. Q V	.	.	.	.
11.250	169.5468	289.53	. Q V	.	.	.	.
11.333	171.5583	292.08	. Q V	.	.	.	.
11.417	173.5879	294.69	. Q V	.	.	.	.
11.500	175.6358	297.36	. Q V	.	.	.	.
11.583	177.7027	300.11	. Q V	.	.	.	.
11.667	179.7888	302.91	. Q V	.	.	.	.
11.750	181.8948	305.79	. Q V	.	.	.	.
11.833	184.0210	308.73	. Q V	.	.	.	.
11.917	186.1682	311.76	. Q V	.	.	.	.
12.000	188.3366	314.86	. Q V	.	.	.	.
12.083	190.5306	318.57	. Q V	.	.	.	.
12.167	192.7542	322.87	. Q V	.	.	.	.
12.250	195.0085	327.32	. Q V	.	.	.	.
12.333	197.2968	332.25	. Q V	.	.	.	.
12.417	199.6224	337.68	. Q V	.	.	.	.
12.500	201.9943	344.40	. Q V.	.	.	.	.
12.583	204.4218	352.47	. Q V.	.	.	.	.
12.667	206.9083	361.04	. Q V.	.	.	.	.
12.750	209.4613	370.68	. Q V.	.	.	.	.
12.833	212.0790	380.10	. Q V.	.	.	.	.
12.917	214.7686	390.52	. Q V.	.	.	.	.
13.000	217.5290	400.81	. Q V.	.	.	.	.
13.083	220.3709	412.64	. Q V.	.	.	.	.
13.167	223.2933	424.33	. Q V.	.	.	.	.
13.250	226.3086	437.83	. Q V	.	.	.	.
13.333	229.4166	451.28	. Q V	.	.	.	.
13.417	232.6073	463.29	. Q V	.	.	.	.
13.500	235.8927	477.04	. Q V	.	.	.	.
13.583	239.2643	489.56	. Q V	.	.	.	.

13.667	242.7192	501.65	.	Q V	.	.	.
13.750	246.2544	513.31	.	Q V	.	.	.
13.833	249.8631	523.99	.	Q .V	.	.	.
13.917	253.5473	534.94	.	Q .V	.	.	.
14.000	257.3056	545.70	.	Q.V	.	.	.
14.083	261.1405	556.83	.	Q.V	.	.	.
14.167	265.0540	568.24	.	Q.V	.	.	.
14.250	269.0469	579.77	.	Q.V	.	.	.
14.333	273.1238	591.97	.	Q. V	.	.	.
14.417	277.2903	604.97	.	Q V	.	.	.
14.500	281.5577	619.63	.	Q V	.	.	.
14.583	285.9380	636.02	.	Q V	.	.	.
14.667	290.4371	653.27	.	Q V	.	.	.
14.750	295.0648	671.95	.	.Q V	.	.	.
14.833	299.8211	690.61	.	.Q V	.	.	.
14.917	304.7179	711.02	.	.Q V	.	.	.
15.000	309.7560	731.53	.	.QV	.	.	.
15.083	314.9504	754.22	.	. Q V	.	.	.
15.167	320.3032	777.22	.	. Q V	.	.	.
15.250	325.8354	803.28	.	. QV	.	.	.
15.333	331.5514	829.97	.	. QV	.	.	.
15.417	337.4321	853.88	.	. QV	.	.	.
15.500	343.4871	879.20	.	. QV	.	.	.
15.583	349.7144	904.19	.	. Q	.	.	.
15.667	356.1106	928.74	.	. Q	.	.	.
15.750	362.6815	954.09	.	. QV	.	.	.
15.833	369.4125	977.34	.	. Q	.	.	.
15.917	376.3256	1003.78	.	. Q	.	.	.
16.000	383.4937	1040.81	.	. Q	.	.	.
16.083	391.2191	1121.74	.	. VQ	.	.	.
16.167	399.5064	1203.32	.	. V Q	.	.	.
16.250	408.1027	1248.17	.	. V Q	.	.	.
16.333	417.2780	1332.26	.	. V . Q	.	.	.
16.417	427.1247	1429.75	.	. V. Q	.	.	.
16.500	438.1202	1596.54	.	. V. Q	.	.	.
16.583	450.1648	1748.87	.	. V Q.	.	.	.
16.667	462.7190	1822.87	.	. V Q.	.	.	.
16.750	476.0012	1928.58	.	. V. Q	.	.	.
16.833	489.2701	1926.65	.	. V. Q	.	.	.
16.917	503.2140	2024.65	.	. V. Q	.	.	.
17.000	517.2858	2043.22	.	. V Q	.	.	.
17.083	532.3265	2183.91	.	. V Q	.	.	.
17.167	547.4509	2196.07	.	. V Q	.	.	.
17.250	563.4478	2322.74	.	. V Q	.	.	.
17.333	579.1493	2279.86	.	. V Q	.	.	.
17.417	593.7769	2123.92	.	. V Q	.	.	.
17.500	608.9361	2201.12	.	. V Q	.	.	.
17.583	622.9021	2027.87	.	. V Q	.	.	.
17.667	636.0478	1908.76	.	. V .Q	.	.	.
17.750	648.2881	1777.29	.	. VQ.	.	.	.
17.833	659.4803	1625.11	.	. Q V.	.	.	.
17.917	670.2600	1565.21	.	. Q V.	.	.	.
18.000	680.3819	1469.70	.	. Q V	.	.	.
18.083	689.7010	1353.13	.	. Q V	.	.	.
18.167	698.2460	1240.74	.	. Q .V	.	.	.
18.250	706.2614	1163.82	.	. Q .V	.	.	.
18.333	713.8691	1104.64	.	. Q .V	.	.	.
18.417	721.0858	1047.87	.	. Q .V	.	.	.

18.500	727.8182	977.55	.	. Q	.	. V	.
18.583	734.0383	903.16	.	. Q	.	. V	.
18.667	739.9171	853.59	.	. Q	.	. V	.
18.750	745.3404	787.46	.	. Q	.	. V	.
18.833	750.4962	748.62	.	. Q	.	. V	.
18.917	755.3957	711.40	.	. Q	.	. V	.
19.000	759.9630	663.17	.	. Q	.	. V	.
19.083	764.0795	597.73	.	. Q	.	. V	.
19.167	767.9896	567.75	.	. Q	.	. V	.
19.250	771.7277	542.77	.	. Q	.	. V	.
19.333	775.3054	519.49	.	. Q	.	. V	.
19.417	778.7357	498.08	.	. Q	.	. V	.
19.500	782.0157	476.26	.	. Q	.	. V	.
19.583	785.1647	457.22	.	. Q	.	. V	.
19.667	788.1931	439.72	.	. Q	.	. V	.
19.750	791.1157	424.37	.	. Q	.	. V	.
19.833	793.9451	410.82	.	. Q	.	. V	.
19.917	796.6838	397.66	.	. Q	.	. V	.
20.000	799.3381	385.41	.	. Q	.	. V	.
20.083	801.9162	374.33	.	. Q	.	. V	.
20.167	804.4220	363.84	.	. Q	.	. V	.
20.250	806.8499	352.52	.	. Q	.	. V	.
20.333	809.1788	338.16	.	. Q	.	. V	.
20.417	811.3564	316.20	.	. Q	.	. V	.
20.500	813.4751	307.62	.	. Q	.	. V	.
20.583	815.5457	300.66	.	. Q	.	. V	.
20.667	817.5717	294.17	.	. Q	.	. V	.
20.750	819.5544	287.89	.	. Q	.	. V	.
20.833	821.4964	281.97	.	. Q	.	. V	.
20.917	823.3995	276.32	.	. Q	.	. V	.
21.000	825.2662	271.04	.	. Q	.	. V	.
21.083	827.1006	266.36	.	. Q	.	. V	.
21.167	828.9042	261.89	.	. Q	.	. V	.
21.250	830.6783	257.60	.	. Q	.	. V	.
21.333	832.4243	253.51	.	. Q	.	. V	.
21.417	834.1443	249.75	.	. Q	.	. V	.
21.500	835.8394	246.13	.	. Q	.	. V	.
21.583	837.5105	242.64	.	. Q	.	. V	.
21.667	839.1584	239.28	.	. Q	.	. V	.
21.750	840.7840	236.03	.	. Q	.	. V	.
21.833	842.3879	232.89	.	. Q	.	. V	.
21.917	843.9708	229.85	.	. Q	.	. V	.
22.000	845.5335	226.90	.	. Q	.	. V	.
22.083	847.0765	224.04	.	. Q	.	. V	.
22.167	848.6005	221.27	.	. Q	.	. V	.
22.250	850.1059	218.58	.	. Q	.	. V	.
22.333	851.5935	216.00	.	. Q	.	. V	.
22.417	853.0648	213.63	.	. Q	.	. V	.
22.500	854.5202	211.33	.	. Q	.	. V	.
22.583	855.9602	209.09	.	. Q	.	. V	.
22.667	857.3853	206.92	.	. Q	.	. V	.
22.750	858.7957	204.80	.	. Q	.	. V	.
22.833	860.1920	202.74	.	. Q	.	. V	.
22.917	861.5745	200.74	.	. Q	.	. V	.
23.000	862.9436	198.79	.	. Q	.	. V	.
23.083	864.2996	196.88	.	. Q	.	. V	.
23.167	865.6427	195.03	.	. Q	.	. V	.
23.250	866.9734	193.22	.	. Q	.	. V	.

23.333	868.2919	191.45	. Q	.	.	.	V .
23.417	869.5986	189.73	. Q	.	.	.	V .
23.500	870.8936	188.04	. Q	.	.	.	V .
23.583	872.1774	186.40	. Q	.	.	.	V .
23.667	873.4500	184.79	. Q	.	.	.	V .
23.750	874.7119	183.22	. Q	.	.	.	V .
23.833	875.9631	181.68	. Q	.	.	.	V .
23.917	877.2040	180.18	. Q	.	.	.	V .
24.000	878.4348	178.70	. Q	.	.	.	V .
24.083	879.6515	176.67	. Q	.	.	.	V .
24.167	880.8503	174.07	. Q	.	.	.	V .
24.250	882.0311	171.46	. Q	.	.	.	V .
24.333	883.1911	168.43	. Q	.	.	.	V .
24.417	884.3275	165.00	. Q	.	.	.	V .
24.500	885.4310	160.23	. Q	.	.	.	V .
24.583	886.4924	154.12	. Q	.	.	.	V .
24.667	887.5090	147.60	. Q	.	.	.	V .
24.750	888.4738	140.09	. Q	.	.	.	V .
24.833	889.3900	133.03	. Q	.	.	.	V .
24.917	890.2513	125.07	. Q	.	.	.	V .
25.000	891.0604	117.47	.Q	.	.	.	V .
25.083	891.8068	108.38	.Q	.	.	.	V .
25.167	892.4933	99.69	.Q	.	.	.	V .
25.250	893.1078	89.23	.Q	.	.	.	V .
25.333	893.6523	79.07	.Q	.	.	.	V .
25.417	894.1407	70.92	.Q	.	.	.	V .
25.500	894.5610	61.02	.Q	.	.	.	V .
25.583	894.9254	52.90	Q	.	.	.	V .
25.667	895.2391	45.56	Q	.	.	.	V .
25.750	895.5083	39.08	Q	.	.	.	V .
25.833	895.7427	34.03	Q	.	.	.	V .
25.917	895.9427	29.05	Q	.	.	.	V .
26.000	896.1122	24.60	Q	.	.	.	V .
26.083	896.2564	20.94	Q	.	.	.	V .
26.167	896.3809	18.08	Q	.	.	.	V .
26.250	896.4883	15.59	Q	.	.	.	V .
26.333	896.5799	13.30	Q	.	.	.	V .
26.417	896.6569	11.18	Q	.	.	.	V .
26.500	896.7215	9.38	Q	.	.	.	V .
26.583	896.7764	7.98	Q	.	.	.	V .
26.667	896.8223	6.66	Q	.	.	.	V .
26.750	896.8619	5.74	Q	.	.	.	V .
26.833	896.8954	4.88	Q	.	.	.	V .
26.917	896.9232	4.02	Q	.	.	.	V .
27.000	896.9460	3.32	Q	.	.	.	V .
27.083	896.9672	3.07	Q	.	.	.	V .
27.167	896.9869	2.86	Q	.	.	.	V .
27.250	897.0051	2.64	Q	.	.	.	V .
27.333	897.0218	2.43	Q	.	.	.	V .
27.417	897.0370	2.21	Q	.	.	.	V .
27.500	897.0508	2.00	Q	.	.	.	V .
27.583	897.0632	1.79	Q	.	.	.	V .
27.667	897.0741	1.58	Q	.	.	.	V .
27.750	897.0836	1.38	Q	.	.	.	V .
27.833	897.0916	1.17	Q	.	.	.	V .
27.917	897.0983	0.97	Q	.	.	.	V .
28.000	897.1035	0.76	Q	.	.	.	V .
28.083	897.1074	0.56	Q	.	.	.	V .

28.167	897.1099	0.36	Q	.	.	.	V .
28.250	897.1111	0.17	Q	.	.	.	V .

-----  
TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
(Note: 100% of Peak Flow Rate estimate assumed to have  
an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
=====	=====
0%	1695.0
10%	790.0
20%	365.0
30%	245.0
40%	170.0
50%	130.0
60%	100.0
70%	75.0
80%	60.0
90%	30.0

=====  
END OF FLOODSCx ROUTING ANALYSIS

\*\*\*\*\*

FLOOD ROUTING ANALYSIS
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)
(c) Copyright 1989-2013 Advanced Engineering Software (aes)
Ver. 20.0 Release Date: 06/01/2013 License ID 1237

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*
\* RMV PA-3 ROMP AMENDMENT 2022 - NODE 134U \*
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*
\* 100-YR EV OCT 2022 ROKAMOTO \*

FILE NAME: EV0034US.DAT
TIME/DATE OF STUDY: 09:23 10/25/2022

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 134.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<

=====

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 62747.398 ACRES
BASEFLOW = 0.000 CFS/SQUARE-MILE
\*USER ENTERED "LAG" TIME = 2.378 HOURS
VALLEY (DEVELOPED) S-GRAPH SELECTED
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.284
LOW LOSS FRACTION = 0.392
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.49
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.93
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 1.29
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 2.37
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 3.51
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 6.11

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:
5-MINUTE FACTOR = 0.304
30-MINUTE FACTOR = 0.358
1-HOUR FACTOR = 0.405
3-HOUR FACTOR = 0.750
6-HOUR FACTOR = 0.890
24-HOUR FACTOR = 0.936

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 3.504

UNIT HYDROGRAPH DETERMINATION

Table with 3 columns: INTERVAL NUMBER, "S" GRAPH MEAN VALUES, UNIT HYDROGRAPH ORDINATES (CFS). Rows 1-48.

49	89.109	6280.648
50	89.925	6199.247
51	90.678	5709.738
52	91.416	5598.636
53	92.136	5464.434
54	92.806	5086.895
55	93.474	5066.863
56	94.085	4637.566
57	94.539	3446.940
58	94.984	3377.176
59	95.429	3377.176
60	95.870	3347.591
61	96.197	2478.460
62	96.472	2087.200
63	96.747	2085.116
64	97.022	2087.200
65	97.297	2085.116
66	97.571	2085.058
67	97.846	2085.116
68	98.029	1387.240
69	98.095	499.061
70	98.160	499.061
71	98.226	499.119
72	98.292	496.919
73	98.358	499.061
74	98.423	496.977
75	98.488	496.977
76	98.554	499.061
77	98.620	496.919
78	98.686	503.346
79	98.751	494.835
80	98.817	499.061
81	98.883	499.061
82	98.949	499.061
83	99.014	499.061
84	99.080	499.061
85	99.146	499.061
86	99.212	499.061
87	99.277	499.061
88	99.343	499.061
89	99.409	499.061
90	99.475	499.061
91	99.540	499.061
92	99.606	499.061
93	99.672	499.061
94	99.738	499.061
95	99.804	499.061
96	99.869	499.061
97	99.935	499.061
98	100.000	492.809

-----  
TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 11534.1885  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 18337.5176  
-----

=====  
2 4 - 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 FIVE-MINUTE UNIT INTERVALS (CFS)  
(Note: Time indicated is at END of Each Unit Intervals)

TIME (HRS)	VOLUME (AF)	Q (CFS)	0.	5550.0	11100.0	16650.0	22200.0
0.083	0.0552	8.01	Q	.	.	.	.
0.167	0.2208	24.05	Q	.	.	.	.
0.250	0.4971	40.13	Q	.	.	.	.
0.333	0.8846	56.26	Q	.	.	.	.
0.417	1.3835	72.44	Q	.	.	.	.
0.500	2.0232	92.89	Q	.	.	.	.
0.583	2.8327	117.54	Q	.	.	.	.
0.667	3.8124	142.25	Q	.	.	.	.
0.750	4.9999	172.42	Q	.	.	.	.
0.833	6.4944	217.00	Q	.	.	.	.
0.917	8.3453	268.75	Q	.	.	.	.
1.000	10.6265	331.23	Q	.	.	.	.
1.083	13.4156	404.97	Q	.	.	.	.
1.167	16.6993	476.79	Q	.	.	.	.
1.250	20.4832	549.42	Q	.	.	.	.
1.333	24.9305	645.76	VQ	.	.	.	.
1.417	29.9356	726.73	VQ	.	.	.	.
1.500	35.4798	805.02	VQ	.	.	.	.
1.583	41.6768	899.81	VQ	.	.	.	.
1.667	48.5778	1002.02	VQ	.	.	.	.
1.750	56.0550	1085.70	VQ	.	.	.	.
1.833	64.1788	1179.57	V Q	.	.	.	.
1.917	73.0283	1284.96	V Q	.	.	.	.
2.000	82.7344	1409.32	V Q	.	.	.	.
2.083	93.1341	1510.04	V Q	.	.	.	.
2.167	104.3135	1623.25	V Q	.	.	.	.
2.250	116.4234	1758.36	V Q	.	.	.	.
2.333	129.4495	1891.38	V Q	.	.	.	.
2.417	143.5189	2042.88	V Q	.	.	.	.
2.500	158.4027	2161.12	V Q	.	.	.	.
2.583	174.0111	2266.34	V Q	.	.	.	.
2.667	190.3858	2377.60	V Q	.	.	.	.
2.750	207.7021	2514.33	V Q	.	.	.	.
2.833	225.9524	2649.95	V Q	.	.	.	.
2.917	244.9384	2756.76	V Q	.	.	.	.
3.000	264.6683	2864.79	V Q	.	.	.	.
3.083	285.1103	2968.17	V Q	.	.	.	.
3.167	306.2202	3065.17	V Q	.	.	.	.
3.250	327.9915	3161.19	V Q	.	.	.	.
3.333	350.2979	3238.90	V Q	.	.	.	.
3.417	373.1048	3311.56	V Q	.	.	.	.
3.500	396.4217	3385.61	V Q	.	.	.	.
3.583	420.2601	3461.33	V Q	.	.	.	.
3.667	444.5864	3532.19	V Q	.	.	.	.
3.750	469.3722	3598.89	.V Q	.	.	.	.
3.833	494.5897	3661.58	.V Q	.	.	.	.
3.917	520.1902	3717.20	.V Q	.	.	.	.

4.000	546.1476	3769.02	.V	Q	.	.	.	.
4.083	572.4191	3814.62	.V	Q	.	.	.	.
4.167	599.0035	3860.06	.V	Q	.	.	.	.
4.250	625.8843	3903.08	.V	Q	.	.	.	.
4.333	653.0591	3945.78	.V	Q	.	.	.	.
4.417	680.5242	3987.94	.V	Q	.	.	.	.
4.500	708.2678	4028.37	.V	Q	.	.	.	.
4.583	736.2902	4068.85	.V	Q	.	.	.	.
4.667	764.5776	4107.33	.V	Q	.	.	.	.
4.750	793.0878	4139.69	.V	Q	.	.	.	.
4.833	821.8202	4171.94	.V	Q	.	.	.	.
4.917	850.7755	4204.32	.V	Q	.	.	.	.
5.000	879.9545	4236.79	.V	Q	.	.	.	.
5.083	909.3266	4264.83	.V	Q	.	.	.	.
5.167	938.8793	4291.06	.V	Q	.	.	.	.
5.250	968.6135	4317.39	.V	Q	.	.	.	.
5.333	998.5308	4343.99	.V	Q	.	.	.	.
5.417	1028.6321	4370.70	.V	Q	.	.	.	.
5.500	1058.9191	4397.67	.V	Q	.	.	.	.
5.583	1089.3928	4424.78	.V	Q	.	.	.	.
5.667	1120.0297	4448.47	.V	Q	.	.	.	.
5.750	1150.7982	4467.60	.V	Q	.	.	.	.
5.833	1181.7003	4486.98	.V	Q	.	.	.	.
5.917	1212.7367	4506.49	.V	Q	.	.	.	.
6.000	1243.9092	4526.24	.V	Q	.	.	.	.
6.083	1275.2185	4546.11	.V	Q	.	.	.	.
6.167	1306.6664	4566.24	.V	Q	.	.	.	.
6.250	1338.2538	4586.50	.V	Q	.	.	.	.
6.333	1369.9827	4607.04	.V	Q	.	.	.	.
6.417	1401.8539	4627.70	.V	Q	.	.	.	.
6.500	1433.8695	4648.67	.V	Q	.	.	.	.
6.583	1466.0303	4669.74	.V	Q	.	.	.	.
6.667	1498.3383	4691.12	.V	Q	.	.	.	.
6.750	1530.7944	4712.64	.V	Q	.	.	.	.
6.833	1563.4009	4734.46	.V	Q	.	.	.	.
6.917	1596.1587	4756.44	.V	Q	.	.	.	.
7.000	1629.0699	4778.72	.V	Q	.	.	.	.
7.083	1662.1357	4801.16	.V	Q	.	.	.	.
7.167	1695.3583	4823.92	.V	Q	.	.	.	.
7.250	1728.7388	4846.84	.V	Q	.	.	.	.
7.333	1762.2794	4870.10	.V	Q	.	.	.	.
7.417	1795.9814	4893.53	.V	Q	.	.	.	.
7.500	1829.8472	4917.30	.V	Q	.	.	.	.
7.583	1863.8778	4941.25	.V	Q	.	.	.	.
7.667	1898.0758	4965.56	.V	Q	.	.	.	.
7.750	1932.4425	4990.05	.V	Q	.	.	.	.
7.833	1966.9805	5014.92	.V	Q	.	.	.	.
7.917	2001.6910	5039.98	.V	Q	.	.	.	.
8.000	2036.5769	5065.43	.V	Q	.	.	.	.
8.083	2071.6394	5091.08	.V	Q	.	.	.	.
8.167	2106.8811	5117.10	.V	Q	.	.	.	.
8.250	2142.2856	5140.74	.V	Q	.	.	.	.
8.333	2177.8557	5164.79	.V	Q	.	.	.	.
8.417	2213.5930	5189.05	.V	Q	.	.	.	.
8.500	2249.5005	5213.75	.V	Q	.	.	.	.
8.583	2285.5796	5238.67	.V	Q	.	.	.	.
8.667	2321.8333	5264.04	.V	Q	.	.	.	.
8.750	2358.2632	5289.64	.V	Q	.	.	.	.

8.833	2394.8728	5315.71	.	V	Q	.	.	.
8.917	2431.6636	5342.03	.	V	Q	.	.	.
9.000	2468.6392	5368.84	.	V	Q	.	.	.
9.083	2505.8010	5395.92	.	V	Q	.	.	.
9.167	2543.1528	5423.50	.	V	Q	.	.	.
9.250	2580.6965	5451.36	.	V	Q	.	.	.
9.333	2618.4358	5479.75	.	V	Q	.	.	.
9.417	2656.3726	5508.43	.	V	Q	.	.	.
9.500	2694.5107	5537.68	.	V	Q	.	.	.
9.583	2732.8525	5567.23	.	V	Q	.	.	.
9.667	2771.4019	5597.37	.	V	Q	.	.	.
9.750	2810.1611	5627.83	.	V	Q	.	.	.
9.833	2849.1343	5658.91	.	V	Q	.	.	.
9.917	2888.3240	5690.34	.	V	Q	.	.	.
10.000	2927.7344	5722.40	.	V	Q	.	.	.
10.083	2967.3684	5754.84	.	V	Q	.	.	.
10.167	3007.2305	5787.96	.	V	Q	.	.	.
10.250	3047.3232	5821.47	.	V	Q	.	.	.
10.333	3087.6516	5855.68	.	V	Q	.	.	.
10.417	3128.2185	5890.32	.	V	Q	.	.	.
10.500	3169.0291	5925.70	.	V	Q	.	.	.
10.583	3210.0864	5961.52	.	V	Q	.	.	.
10.667	3251.3960	5998.14	.	V	Q	.	.	.
10.750	3292.9609	6035.23	.	V	Q	.	.	.
10.833	3334.7871	6073.15	.	V	Q	.	.	.
10.917	3376.8779	6111.58	.	V	.Q	.	.	.
11.000	3419.2395	6150.89	.	V	.Q	.	.	.
11.083	3461.8755	6190.74	.	V	.Q	.	.	.
11.167	3504.7922	6231.52	.	V	.Q	.	.	.
11.250	3547.9939	6272.89	.	V	.Q	.	.	.
11.333	3591.4873	6315.24	.	V	.Q	.	.	.
11.417	3635.2766	6358.21	.	V	.Q	.	.	.
11.500	3679.3691	6402.23	.	V	.Q	.	.	.
11.583	3723.7695	6446.93	.	V	.Q	.	.	.
11.667	3768.4854	6492.74	.	V	.Q	.	.	.
11.750	3813.5217	6539.28	.	V	.Q	.	.	.
11.833	3858.8867	6587.01	.	V	.Q	.	.	.
11.917	3904.5859	6635.51	.	V	.Q	.	.	.
12.000	3950.6279	6685.29	.	V	.Q	.	.	.
12.083	3997.1216	6750.88	.	V	.Q	.	.	.
12.167	4044.1790	6832.72	.	V	.Q	.	.	.
12.250	4091.8052	6915.32	.	V	.Q	.	.	.
12.333	4140.0093	6999.21	.	V	.Q	.	.	.
12.417	4188.7969	7083.92	.	V	.Q	.	.	.
12.500	4238.2314	7177.92	.	V	.Q	.	.	.
12.583	4288.3726	7280.48	.	V	.Q	.	.	.
12.667	4339.2295	7384.44	.	V	.Q	.	.	.
12.750	4390.8779	7499.32	.	V	.Q	.	.	.
12.833	4443.5117	7642.43	.	V	.Q	.	.	.
12.917	4497.2271	7799.49	.	V	.Q	.	.	.
13.000	4552.1694	7977.64	.	V	.Q	.	.	.
13.083	4608.4863	8177.19	.	V	.Q	.	.	.
13.167	4666.1582	8373.97	.	V	.Q	.	.	.
13.250	4725.1973	8572.47	.	V	.Q	.	.	.
13.333	4785.9150	8816.21	.	V	.Q	.	.	.
13.417	4848.1138	9031.27	.	V	.Q	.	.	.
13.500	4911.7642	9242.03	.	V	.Q	.	.	.
13.583	4977.0811	9484.04	.	V	.Q	.	.	.

13.667	5044.1655	9740.66	.	.V	Q	.	.	.
13.750	5112.7793	9962.73	.	.V	Q	.	.	.
13.833	5183.0596	10204.73	.	.V	Q	.	.	.
13.917	5255.1582	10468.69	.	.V	Q	.	.	.
14.000	5329.3232	10768.77	.	.V	Q	.	.	.
14.083	5405.3477	11038.74	.	.V	Q	.	.	.
14.167	5483.4897	11346.22	.	.V	Q	.	.	.
14.250	5564.0273	11694.07	.	.V	.Q	.	.	.
14.333	5646.9277	12037.14	.	.V	.Q	.	.	.
14.417	5732.4224	12413.79	.	.V	.Q	.	.	.
14.500	5820.1270	12734.71	.	.V	.Q	.	.	.
14.583	5909.9155	13037.30	.	.V	.Q	.	.	.
14.667	6001.8608	13350.49	.	.V	.Q	.	.	.
14.750	6096.3457	13719.20	.	.V	.Q	.	.	.
14.833	6193.5181	14109.41	.	.V	.Q	.	.	.
14.917	6293.0703	14454.95	.	.V	.Q	.	.	.
15.000	6395.1255	14818.43	.	.V	.Q	.	.	.
15.083	6499.7300	15188.57	.	.V	.Q	.	.	.
15.167	6606.7461	15538.71	.	.V	.Q	.	.	.
15.250	6716.1338	15883.07	.	.V	.Q	.	.	.
15.333	6827.9077	16229.59	.	.V	.Q	.	.	.
15.417	6941.6436	16514.44	.	.V	.Q	.	.	.
15.500	7057.1631	16773.43	.	.V	.Q	.	.	.
15.583	7174.6768	17063.02	.	.V	.Q	.	.	.
15.667	7294.1934	17353.84	.	.V	.Q	.	.	.
15.750	7415.3638	17593.94	.	.V	.Q	.	.	.
15.833	7538.1279	17825.39	.	.V	.Q	.	.	.
15.917	7662.5249	18062.44	.	.V	.Q	.	.	.
16.000	7788.8516	18342.60	.	.V	.Q	.	.	.
16.083	7917.6577	18702.69	.	.V	.Q	.	.	.
16.167	8048.6567	19021.08	.	.V	.Q	.	.	.
16.250	8180.8657	19196.71	.	.V	.Q	.	.	.
16.333	8314.0771	19342.31	.	.V	.Q	.	.	.
16.417	8448.4736	19514.36	.	.V	.Q	.	.	.
16.500	8584.2598	19716.09	.	.V	.Q	.	.	.
16.583	8721.2480	19890.74	.	.V	.Q	.	.	.
16.667	8858.6846	19955.79	.	.V	.Q	.	.	.
16.750	8997.8701	20209.79	.	.V	.Q	.	.	.
16.833	9140.0635	20646.46	.	.V	.Q	.	.	.
16.917	9283.7881	20868.87	.	.V	.Q	.	.	.
17.000	9429.1895	21112.33	.	.V	.Q	.	.	.
17.083	9576.4189	21377.73	.	.V	.Q	.	.	.
17.167	9723.7393	21390.97	.	.V	.Q	.	.	.
17.250	9871.3926	21439.26	.	.V	.Q	.	.	.
17.333	10021.4922	21794.47	.	.V	.Q	.	.	.
17.417	10169.8037	21534.81	.	.V	.Q	.	.	.
17.500	10318.0371	21523.46	.	.V	.Q	.	.	.
17.583	10467.9434	21766.42	.	.V	.Q	.	.	.
17.667	10618.3682	21841.72	.	.V	.Q	.	.	.
17.750	10765.8965	21421.11	.	.V	.Q	.	.	.
17.833	10914.7158	21608.56	.	.V	.Q	.	.	.
17.917	11065.0068	21822.19	.	.V	.Q	.	.	.
18.000	11217.2314	22103.05	.	.V	.Q	.	.	.
18.083	11365.1934	21484.11	.	.V	.Q	.	.	.
18.167	11514.0518	21614.21	.	.V	.Q	.	.	.
18.250	11665.4580	21984.26	.	.V	.Q	.	.	.
18.333	11816.0938	21872.37	.	.V	.Q	.	.	.
18.417	11967.6895	22011.63	.	.V	.Q	.	.	.

18.500	12113.9014	21229.95	.	.	.	V	.	Q
18.583	12258.2363	20957.41	.	.	.	V	.	Q
18.667	12403.4404	21083.57	.	.	.	V	.	Q
18.750	12552.0117	21572.55	.	.	.	V	.	Q
18.833	12699.2891	21384.70	.	.	.	V	.	Q
18.917	12841.4697	20644.64	.	.	.	V	.	Q
19.000	12982.2471	20440.81	.	.	.	V	.	Q
19.083	13121.3154	20192.70	.	.	.	V	.	Q
19.167	13258.3467	19896.89	.	.	.	V	.	Q
19.250	13393.2354	19585.90	.	.	.	V	.	Q
19.333	13523.6670	18938.62	.	.	.	V	.	Q
19.417	13651.5312	18565.95	.	.	.	V	.	Q
19.500	13777.9229	18352.07	.	.	.	V	.	Q
19.583	13902.7803	18129.32	.	.	.	V	.	Q
19.667	14024.7178	17705.35	.	.	.	VQ	.	.
19.750	14143.5771	17258.44	.	.	.	VQ	.	.
19.833	14259.1758	16784.96	.	.	.	VQ	.	.
19.917	14371.3311	16284.97	.	.	.	Q.V	.	.
20.000	14480.1611	15802.16	.	.	.	Q.V	.	.
20.083	14585.8145	15340.89	.	.	.	Q.V	.	.
20.167	14688.9346	14973.02	.	.	.	Q.V	.	.
20.250	14788.8223	14503.63	.	.	.	Q.V	.	.
20.333	14885.9268	14099.55	.	.	.	Q.V	.	.
20.417	14980.0391	13665.08	.	.	.	Q.V	.	.
20.500	15071.4180	13268.22	.	.	.	Q.V	.	.
20.583	15160.3291	12909.89	.	.	.	Q.V	.	.
20.667	15246.4043	12498.16	.	.	.	Q.V	.	.
20.750	15328.9355	11983.50	.	.	.	Q.V	.	.
20.833	15408.7559	11589.92	.	.	.	Q.V	.	.
20.917	15486.3311	11263.96	.	.	.	Q.V	.	.
21.000	15561.6650	10938.48	.	.	.	Q.V	.	.
21.083	15634.3398	10552.36	.	.	.	Q.V	.	.
21.167	15704.8066	10231.79	.	.	.	Q.V	.	.
21.250	15773.3789	9956.69	.	.	.	Q.V	.	.
21.333	15840.3369	9722.36	.	.	.	Q.V	.	.
21.417	15905.7148	9492.82	.	.	.	Q.V	.	.
21.500	15969.4512	9254.46	.	.	.	Q.V	.	.
21.583	16031.4473	9001.86	.	.	.	Q.V	.	.
21.667	16091.3135	8692.58	.	.	.	Q.V	.	.
21.750	16149.1299	8394.95	.	.	.	Q.V	.	.
21.833	16205.5977	8199.19	.	.	.	Q.V	.	.
21.917	16260.8350	8020.46	.	.	.	Q.V	.	.
22.000	16314.8672	7845.43	.	.	.	Q.V	.	.
22.083	16367.7725	7681.83	.	.	.	Q.V	.	.
22.167	16419.5859	7523.22	.	.	.	Q.V	.	.
22.250	16470.3184	7366.47	.	.	.	Q.V	.	.
22.333	16519.9902	7212.35	.	.	.	Q.V	.	.
22.417	16568.6172	7060.64	.	.	.	Q.V	.	.
22.500	16616.2383	6914.71	.	.	.	Q.V	.	.
22.583	16662.8555	6768.94	.	.	.	Q.V	.	.
22.667	16708.5605	6636.49	.	.	.	Q.V	.	.
22.750	16753.5020	6525.42	.	.	.	Q.V	.	.
22.833	16797.6992	6417.45	.	.	.	Q.V	.	.
22.917	16841.1680	6311.62	.	.	.	Q.V	.	.
23.000	16883.9238	6208.20	.	.	.	Q.V	.	.
23.083	16926.0410	6115.38	.	.	.	Q.V	.	.
23.167	16967.5586	6028.37	.	.	.	Q.V	.	.
23.250	17008.4902	5943.33	.	.	.	Q.V	.	.



23.333	17048.8477	5860.03	.	Q	.	.	V	.
23.417	17088.6445	5778.56	.	Q	.	.	V	.
23.500	17127.8926	5698.74	.	Q	.	.	V	.
23.583	17166.6445	5626.74	.	Q	.	.	V	.
23.667	17204.9551	5562.63	.	Q	.	.	V	.
23.750	17242.8887	5507.95	.	Q.	.	.	V	.
23.833	17280.4512	5454.20	.	Q.	.	.	V	.
23.917	17317.6660	5403.55	.	Q.	.	.	V	.
24.000	17354.5332	5353.17	.	Q.	.	.	V	.
24.083	17390.9824	5292.48	.	Q.	.	.	V	.
24.167	17426.9355	5220.27	.	Q.	.	.	V	.
24.250	17462.0957	5105.16	.	Q.	.	.	V	.
24.333	17496.8203	5042.06	.	Q.	.	.	V	.
24.417	17531.1172	4979.98	.	Q	.	.	V	.
24.500	17564.9727	4915.88	.	Q	.	.	V	.
24.583	17598.3281	4843.13	.	Q	.	.	V	.
24.667	17631.1855	4770.95	.	Q	.	.	V	.
24.750	17663.5137	4694.03	.	Q	.	.	V	.
24.833	17695.2188	4603.47	.	Q	.	.	V	.
24.917	17726.2559	4506.63	.	Q	.	.	V	.
25.000	17756.5586	4400.02	.	Q	.	.	V	.
25.083	17786.0566	4283.18	.	Q	.	.	V	.
25.167	17814.7715	4169.42	.	Q	.	.	V	.
25.250	17842.7363	4060.55	.	Q	.	.	V	.
25.333	17869.7988	3929.41	.	Q	.	.	V	.
25.417	17896.0742	3815.16	.	Q	.	.	V	.
25.500	17921.5918	3705.01	.	Q	.	.	V	.
25.583	17946.2461	3579.68	.	Q	.	.	V	.
25.667	17969.9961	3448.39	.	Q	.	.	V	.
25.750	17992.9785	3337.05	.	Q	.	.	V	.
25.833	18015.1328	3216.85	.	Q	.	.	V	.
25.917	18036.3887	3086.43	.	Q	.	.	V	.
26.000	18056.6270	2938.53	.	Q	.	.	V	.
26.083	18076.0195	2815.70	.	Q	.	.	V	.
26.167	18094.4902	2681.87	.	Q	.	.	V	.
26.250	18111.9297	2532.34	.	Q	.	.	V	.
26.333	18128.3672	2386.58	.	Q	.	.	V	.
26.417	18143.6836	2223.87	.	Q	.	.	V	.
26.500	18158.1191	2096.10	.	Q	.	.	V	.
26.583	18171.7734	1982.68	.	Q	.	.	V	.
26.667	18184.6152	1864.51	.	Q	.	.	V	.
26.750	18196.4766	1722.15	.	Q	.	.	V	.
26.833	18207.3750	1582.39	.	Q	.	.	V	.
26.917	18217.5176	1472.80	.	Q	.	.	V	.
27.000	18226.9062	1363.20	.	Q	.	.	V	.
27.083	18235.5801	1259.38	.	Q	.	.	V	.
27.167	18243.5898	1163.06	.	Q	.	.	V	.
27.250	18250.9492	1068.71	.	Q	.	.	V	.
27.333	18257.7930	993.69	.	Q	.	.	V	.
27.417	18264.1602	924.52	.	Q	.	.	V	.
27.500	18270.0469	854.77	.	Q	.	.	V	.
27.583	18275.4473	784.11	.	Q	.	.	V	.
27.667	18280.4004	719.12	.	Q	.	.	V	.
27.750	18284.9395	658.98	.	Q	.	.	V	.
27.833	18289.0957	603.57	.	Q	.	.	V	.
27.917	18292.9238	555.83	.	Q	.	.	V	.
28.000	18296.4531	512.50	.	Q	.	.	V	.
28.083	18299.7305	475.87	.	Q	.	.	V	.

28.167	18302.7598	439.94	Q	.	.	.	V.	.
28.250	18305.5625	406.83	Q	.	.	.	V.	.
28.333	18308.1426	374.55	Q	.	.	.	V.	.
28.417	18310.5059	343.19	Q	.	.	.	V.	.
28.500	18312.6680	314.05	Q	.	.	.	V.	.
28.583	18314.6328	285.21	Q	.	.	.	V.	.
28.667	18316.4160	258.83	Q	.	.	.	V.	.
28.750	18318.0605	238.89	Q	.	.	.	V.	.
28.833	18319.5723	219.46	Q	.	.	.	V.	.
28.917	18320.9512	200.16	Q	.	.	.	V.	.
29.000	18322.1992	181.16	Q	.	.	.	V.	.
29.083	18323.3477	166.85	Q	.	.	.	V.	.
29.167	18324.4141	154.71	Q	.	.	.	V.	.
29.250	18325.3965	142.66	Q	.	.	.	V.	.
29.333	18326.2969	130.69	Q	.	.	.	V.	.
29.417	18327.1152	118.81	Q	.	.	.	V.	.
29.500	18327.8516	107.01	Q	.	.	.	V.	.
29.583	18328.5078	95.29	Q	.	.	.	V.	.
29.667	18329.1094	87.32	Q	.	.	.	V.	.
29.750	18329.6875	84.08	Q	.	.	.	V.	.
29.833	18330.2441	80.87	Q	.	.	.	V.	.
29.917	18330.7793	77.68	Q	.	.	.	V.	.
30.000	18331.2930	74.53	Q	.	.	.	V.	.
30.083	18331.7852	71.40	Q	.	.	.	V.	.
30.167	18332.2559	68.30	Q	.	.	.	V.	.
30.250	18332.7051	65.22	Q	.	.	.	V.	.
30.333	18333.1328	62.16	Q	.	.	.	V.	.
30.417	18333.5410	59.13	Q	.	.	.	V.	.
30.500	18333.9277	56.09	Q	.	.	.	V.	.
30.583	18334.2930	53.12	Q	.	.	.	V.	.
30.667	18334.6387	50.15	Q	.	.	.	V.	.
30.750	18334.9629	47.20	Q	.	.	.	V.	.
30.833	18335.2676	44.27	Q	.	.	.	V.	.
30.917	18335.5527	41.36	Q	.	.	.	V.	.
31.000	18335.8184	38.48	Q	.	.	.	V.	.
31.083	18336.0645	35.61	Q	.	.	.	V.	.
31.167	18336.2910	32.76	Q	.	.	.	V.	.
31.250	18336.4980	29.93	Q	.	.	.	V.	.
31.333	18336.6855	27.12	Q	.	.	.	V.	.
31.417	18336.8535	24.32	Q	.	.	.	V.	.
31.500	18337.0020	21.55	Q	.	.	.	V.	.
31.583	18337.1309	18.79	Q	.	.	.	V.	.
31.667	18337.2422	16.05	Q	.	.	.	V.	.
31.750	18337.3340	13.33	Q	.	.	.	V.	.
31.833	18337.4062	10.63	Q	.	.	.	V.	.
31.917	18337.4609	7.94	Q	.	.	.	V.	.
32.000	18337.4980	5.26	Q	.	.	.	V.	.
32.083	18337.5156	2.61	Q	.	.	.	V.	.

-----  
TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
(Note: 100% of Peak Flow Rate estimate assumed to have  
an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
=====	=====
0%	1925.0
10%	1435.0

20%	1165.0
30%	650.0
40%	495.0
50%	410.0
60%	355.0
70%	295.0
80%	235.0
90%	155.0

=====  
END OF FLOODSCx ROUTING ANALYSIS

\*\*\*\*\*

FLOOD ROUTING ANALYSIS  
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)  
(c) Copyright 1989-2013 Advanced Engineering Software (aes)  
Ver. 20.0 Release Date: 06/01/2013 License ID 1264

Analysis prepared by:

Michael Baker International  
5 Hutton Centre Drive, Suite 500  
Santa Ana, CA 92707

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*  
\* RANCHO MISSION VIEJJO - SINGLE AREA UH \*  
\* ULTIMATE CONDITION - REGIONAL NODE 119 \*  
\* 100-YR EV SEPTEMBER 2018 CCHIUI \*  
\*\*\*\*\*

FILE NAME: EV00119S.DAT  
TIME/DATE OF STUDY: 10:12 09/28/2018

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 119.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<

=====

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 49495.699 ACRES  
BASEFLOW = 0.000 CFS/SQUARE-MILE  
\*USER ENTERED "LAG" TIME = 1.964 HOURS  
VALLEY (DEVELOPED) S-GRAPH SELECTED  
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.298  
LOW LOSS FRACTION = 0.376  
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.51  
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.95  
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 1.32  
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 2.49  
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 3.72  
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 6.54

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:  
5-MINUTE FACTOR = 0.345  
30-MINUTE FACTOR = 0.395  
1-HOUR FACTOR = 0.435  
3-HOUR FACTOR = 0.785  
6-HOUR FACTOR = 0.904  
24-HOUR FACTOR = 0.944

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES  
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 4.243

===== UNIT HYDROGRAPH DETERMINATION =====

INTERVAL NUMBER	"S" GRAPH MEAN VALUES	UNIT HYDROGRAPH ORDINATES (CFS)
1	0.242	1451.336
2	0.727	2902.669
3	1.212	2902.670
4	1.697	2902.671
5	2.279	3483.213
6	3.015	4405.389
7	3.761	4467.788
8	4.903	6834.843
9	6.364	8742.525
10	8.208	11040.349
11	10.394	13084.627
12	12.522	12740.137
13	15.029	15003.568
14	17.617	15488.998
15	19.936	13883.749
16	22.822	17274.580
17	25.577	16493.475
18	28.123	15241.114
19	31.192	18365.377
20	34.750	21297.615
21	37.558	16810.805
22	41.359	22750.998
23	45.188	22923.033
24	49.462	25583.668
25	52.874	20420.457
26	55.850	17818.346
27	59.337	20870.088
28	63.378	24187.758
29	66.432	18284.008
30	69.459	18120.742
31	72.180	16286.321
32	74.861	16048.708
33	77.066	13197.565
34	78.952	11288.478
35	80.887	11584.273
36	82.790	11391.415
37	84.520	10351.950
38	86.085	9371.763
39	87.417	7971.972
40	88.553	6798.926
41	89.551	5975.702
42	90.492	5629.944
43	91.385	5347.484
44	92.250	5178.053
45	93.060	4848.782
46	93.853	4744.749
47	94.451	3580.608
48	94.990	3223.798

49	95.529	3226.539
50	96.027	2984.083
51	96.374	2078.930
52	96.707	1990.789
53	97.040	1993.484
54	97.373	1990.789
55	97.706	1993.484
56	97.990	1704.218
57	98.089	588.258
58	98.168	476.690
59	98.248	476.690
60	98.327	475.320
61	98.407	473.904
62	98.487	479.430
63	98.566	475.320
64	98.645	475.274
65	98.726	479.430
66	98.805	473.950
67	98.884	476.690
68	98.964	476.690
69	99.043	473.904
70	99.122	473.904
71	99.201	473.904
72	99.281	473.904
73	99.360	473.904
74	99.439	473.904
75	99.518	473.904
76	99.597	473.904
77	99.676	473.904
78	99.756	473.904
79	99.835	473.904
80	99.914	473.904
81	99.993	473.904
82	100.000	40.828

-----  
TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 9403.4248  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 16050.0762  
-----

=====  
2 4 - 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 FIVE-MINUTE UNIT INTERVALS (CFS)  
(Note: Time indicated is at END of Each Unit Intervals)

TIME (HRS)	VOLUME (AF)	Q (CFS)	0.	5100.0	10200.0	15300.0	20400.0
0.083	0.0587	8.52	Q	.	.	.	.
0.167	0.2348	25.58	Q	.	.	.	.
0.250	0.5288	42.68	Q	.	.	.	.
0.333	0.9409	59.84	Q	.	.	.	.
0.417	1.4951	80.46	Q	.	.	.	.
0.500	2.2289	106.55	Q	.	.	.	.
0.583	3.1454	133.08	Q	.	.	.	.
0.667	4.3409	173.59	Q	.	.	.	.
0.750	5.8932	225.40	Q	.	.	.	.
0.833	7.8964	290.86	Q	.	.	.	.
0.917	10.4343	368.50	Q	.	.	.	.
1.000	13.4947	444.36	Q	.	.	.	.
1.083	17.1705	533.73	VQ	.	.	.	.
1.167	21.4833	626.21	VQ	.	.	.	.
1.250	26.3700	709.56	VQ	.	.	.	.
1.333	31.9697	813.07	VQ	.	.	.	.
1.417	38.2526	912.28	VQ	.	.	.	.
1.500	45.1705	1004.48	VQ	.	.	.	.
1.583	52.8515	1115.28	V Q	.	.	.	.
1.667	61.4165	1243.64	V Q	.	.	.	.
1.750	70.6868	1346.04	V Q	.	.	.	.
1.833	80.9050	1483.68	V Q	.	.	.	.
1.917	92.0804	1622.67	V Q	.	.	.	.
2.000	104.3242	1777.80	V Q	.	.	.	.
2.083	117.4304	1903.01	V Q	.	.	.	.
2.167	131.2972	2013.47	V Q	.	.	.	.
2.250	146.0498	2142.08	V Q	.	.	.	.
2.333	161.8259	2290.68	V Q	.	.	.	.
2.417	178.3891	2404.99	V Q	.	.	.	.
2.500	195.7366	2518.86	V Q	.	.	.	.
2.583	213.7958	2622.19	V Q	.	.	.	.
2.667	232.5605	2724.64	V Q	.	.	.	.
2.750	251.9168	2810.53	V Q	.	.	.	.
2.833	271.7907	2885.70	V Q	.	.	.	.
2.917	292.1951	2962.71	V Q	.	.	.	.
3.000	313.1251	3039.04	V Q	.	.	.	.
3.083	334.5395	3109.37	V Q	.	.	.	.
3.167	356.4018	3174.40	V Q	.	.	.	.
3.250	378.6557	3231.28	V Q	.	.	.	.
3.333	401.2569	3281.69	.V Q	.	.	.	.
3.417	424.1722	3327.30	.V Q	.	.	.	.
3.500	447.3903	3371.27	.V Q	.	.	.	.
3.583	470.8998	3413.59	.V Q	.	.	.	.
3.667	494.6966	3455.29	.V Q	.	.	.	.
3.750	518.7673	3495.07	.V Q	.	.	.	.
3.833	543.1104	3534.62	.V Q	.	.	.	.
3.917	567.6788	3567.33	.V Q	.	.	.	.

4.000	592.4606	3598.31	.V	Q	.	.	.	.
4.083	617.4557	3629.29	.V	Q	.	.	.	.
4.167	642.6569	3659.21	.V	Q	.	.	.	.
4.250	668.0273	3683.79	.V	Q	.	.	.	.
4.333	693.5659	3708.21	.V	Q	.	.	.	.
4.417	719.2725	3732.59	.V	Q	.	.	.	.
4.500	745.1494	3757.33	.V	Q	.	.	.	.
4.583	771.1964	3782.03	.V	Q	.	.	.	.
4.667	797.4045	3805.41	.V	Q	.	.	.	.
4.750	823.7281	3822.19	.V	Q	.	.	.	.
4.833	850.1652	3838.67	.V	Q	.	.	.	.
4.917	876.7154	3855.08	.V	Q	.	.	.	.
5.000	903.3810	3871.85	.V	Q	.	.	.	.
5.083	930.1616	3888.53	.V	Q	.	.	.	.
5.167	957.0598	3905.63	.V	Q	.	.	.	.
5.250	984.0751	3922.62	.V	Q	.	.	.	.
5.333	1011.2101	3940.01	.V	Q	.	.	.	.
5.417	1038.4645	3957.33	.V	Q	.	.	.	.
5.500	1065.8407	3975.03	.V	Q	.	.	.	.
5.583	1093.3384	3992.67	.V	Q	.	.	.	.
5.667	1120.9604	4010.72	.V	Q	.	.	.	.
5.750	1148.7061	4028.67	.V	Q	.	.	.	.
5.833	1176.5782	4047.05	.V	Q	.	.	.	.
5.917	1204.5765	4065.34	.V	Q	.	.	.	.
6.000	1232.7037	4084.08	.V	Q	.	.	.	.
6.083	1260.9595	4102.73	.V	Q	.	.	.	.
6.167	1289.3468	4121.83	.V	Q	.	.	.	.
6.250	1317.8651	4140.86	.V	Q	.	.	.	.
6.333	1346.5176	4160.34	.V	Q	.	.	.	.
6.417	1375.3037	4179.75	.V	Q	.	.	.	.
6.500	1404.2268	4199.63	.V	Q	.	.	.	.
6.583	1433.2863	4219.44	.V	Q	.	.	.	.
6.667	1462.4855	4239.73	.V	Q	.	.	.	.
6.750	1491.8240	4259.95	.V	Q	.	.	.	.
6.833	1521.2876	4278.12	.V	Q	.	.	.	.
6.917	1550.8743	4295.98	.V	Q	.	.	.	.
7.000	1580.5874	4314.35	.V	Q	.	.	.	.
7.083	1610.4265	4332.64	.V	Q	.	.	.	.
7.167	1640.3951	4351.45	.V	Q	.	.	.	.
7.250	1670.4928	4370.19	.V	Q	.	.	.	.
7.333	1700.7233	4389.46	.V	Q	.	.	.	.
7.417	1731.0859	4408.65	.V	Q	.	.	.	.
7.500	1761.5846	4428.41	.V	Q	.	.	.	.
7.583	1792.2189	4448.09	.V	Q	.	.	.	.
7.667	1822.9927	4468.35	.V	Q	.	.	.	.
7.750	1853.9054	4488.53	.V	Q	.	.	.	.
7.833	1884.9613	4509.31	.V	Q	.	.	.	.
7.917	1916.1598	4530.02	.V	Q	.	.	.	.
8.000	1947.5051	4551.35	.V	Q	.	.	.	.
8.083	1978.9969	4572.61	.V	Q	.	.	.	.
8.167	2010.6395	4594.51	.V	Q	.	.	.	.
8.250	2042.4325	4616.34	.V	Q	.	.	.	.
8.333	2074.3804	4638.83	.V	Q	.	.	.	.
8.417	2106.4827	4661.26	.V	Q	.	.	.	.
8.500	2138.7441	4684.38	.V	Q	.	.	.	.
8.583	2171.1646	4707.43	.V	Q	.	.	.	.
8.667	2203.7485	4731.21	.V	Q	.	.	.	.
8.750	2236.4958	4754.92	.V	Q	.	.	.	.

8.833	2269.4116	4779.37	.V	Q	.	.	.	.
8.917	2302.4954	4803.77	.V	Q	.	.	.	.
9.000	2335.7524	4828.94	.V	Q	.	.	.	.
9.083	2369.1826	4854.06	.V	Q	.	.	.	.
9.167	2402.7913	4879.99	.V	Q	.	.	.	.
9.250	2436.5781	4905.86	.V	Q	.	.	.	.
9.333	2470.5491	4932.58	.V	Q	.	.	.	.
9.417	2504.7036	4959.26	.V	Q	.	.	.	.
9.500	2539.0479	4986.80	.V	Q	.	.	.	.
9.583	2573.5815	5014.31	.V	Q	.	.	.	.
9.667	2608.3110	5042.73	.V	Q	.	.	.	.
9.750	2643.2361	5071.13	.V	Q	.	.	.	.
9.833	2678.3633	5100.47	.V	Q	.	.	.	.
9.917	2713.6924	5129.80	.V	Q	.	.	.	.
10.000	2749.2302	5160.11	.V	Q	.	.	.	.
10.083	2784.9771	5190.43	.V	Q	.	.	.	.
10.167	2820.9397	5221.77	.V	Q	.	.	.	.
10.250	2857.1182	5253.12	.V	Q	.	.	.	.
10.333	2893.5200	5285.55	.V	Q	.	.	.	.
10.417	2930.1453	5318.00	.V	Q	.	.	.	.
10.500	2967.0020	5351.58	.V	Q	.	.	.	.
10.583	3004.0901	5385.20	.V	Q	.	.	.	.
10.667	3041.4180	5420.00	.V	Q	.	.	.	.
10.750	3078.9858	5454.85	.V	Q	.	.	.	.
10.833	3116.8022	5490.95	.V	Q	.	.	.	.
10.917	3154.8677	5527.12	.V	Q	.	.	.	.
11.000	3193.1914	5564.59	.V	Q	.	.	.	.
11.083	3231.7737	5602.16	.V	Q	.	.	.	.
11.167	3270.6243	5641.10	.V	Q	.	.	.	.
11.250	3309.7439	5680.17	.V	Q	.	.	.	.
11.333	3349.1426	5720.67	.V	Q	.	.	.	.
11.417	3388.8210	5761.33	.V	Q	.	.	.	.
11.500	3428.7900	5803.51	.V	Q	.	.	.	.
11.583	3469.0510	5845.88	.V	Q	.	.	.	.
11.667	3509.6147	5889.86	.V	Q	.	.	.	.
11.750	3550.4829	5934.05	.V	Q	.	.	.	.
11.833	3591.6672	5979.95	.V	Q	.	.	.	.
11.917	3633.1694	6026.12	.V	Q	.	.	.	.
12.000	3675.0020	6074.09	.V	Q	.	.	.	.
12.083	3717.2671	6136.90	.V	Q	.	.	.	.
12.167	3760.0779	6216.12	.V	Q	.	.	.	.
12.250	3803.4358	6295.56	.V	Q	.	.	.	.
12.333	3847.3538	6376.90	.V	Q	.	.	.	.
12.417	3891.8738	6464.32	.V	Q	.	.	.	.
12.500	3937.0735	6562.98	.V	Q	.	.	.	.
12.583	3982.9585	6662.51	.V	Q	.	.	.	.
12.667	4029.7068	6787.84	.V	Q	.	.	.	.
12.750	4077.4512	6932.47	.V	Q	.	.	.	.
12.833	4126.3638	7102.13	.V	Q	.	.	.	.
12.917	4176.5864	7292.32	.V	Q	.	.	.	.
13.000	4228.1084	7481.01	.V	Q	.	.	.	.
13.083	4281.0859	7692.34	.V	Q	.	.	.	.
13.167	4335.5664	7910.56	.V	Q	.	.	.	.
13.250	4391.4380	8112.56	.V	Q	.	.	.	.
13.333	4448.9497	8350.71	.V	Q	.	.	.	.
13.417	4508.0469	8580.90	.V	Q	.	.	.	.
13.500	4568.6582	8800.73	.V	Q	.	.	.	.
13.583	4630.9985	9051.83	.V	Q	.	.	.	.

13.667	4695.2866	9334.62	.	.V	Q	.	.	.
13.750	4761.2109	9572.22	.	.V	Q	.	.	.
13.833	4829.1982	9871.76	.	.V	Q	.	.	.
13.917	4899.2598	10172.90	.	.V	Q	.	.	.
14.000	4971.5942	10502.97	.	.V	Q	.	.	.
14.083	5045.9551	10797.17	.	.V	.Q	.	.	.
14.167	5122.2866	11083.36	.	.V	.Q	.	.	.
14.250	5200.7935	11399.17	.	.V	.Q	.	.	.
14.333	5281.7139	11749.65	.	.V	.Q	.	.	.
14.417	5364.6763	12046.17	.	.V	.Q	.	.	.
14.500	5449.7495	12352.64	.	.V	.Q	.	.	.
14.583	5536.8013	12639.95	.	.V	.Q	.	.	.
14.667	5626.0024	12952.03	.	.V	.Q	.	.	.
14.750	5717.2866	13254.47	.	.V	.Q	.	.	.
14.833	5810.6919	13562.47	.	.V	.Q	.	.	.
14.917	5906.3682	13892.20	.	.V	.Q	.	.	.
15.000	6004.2588	14213.71	.	.V	.Q	.	.	.
15.083	6104.4282	14544.58	.	.V	.Q	.	.	.
15.167	6206.8242	14867.88	.	.V	.Q	.	.	.
15.250	6311.1802	15152.49	.	.V	.Q	.	.	.
15.333	6417.6509	15459.53	.	.V	.Q	.	.	.
15.417	6525.9233	15721.17	.	.V	.Q	.	.	.
15.500	6635.7080	15940.76	.	.V	.Q	.	.	.
15.583	6747.2046	16189.30	.	.V	.Q	.	.	.
15.667	6860.6196	16467.85	.	.V	.Q	.	.	.
15.750	6975.4331	16670.95	.	.V	.Q	.	.	.
15.833	7091.9390	16916.66	.	.V	.Q	.	.	.
15.917	7210.1172	17159.45	.	.V	.Q	.	.	.
16.000	7330.0410	17412.96	.	.V	.Q	.	.	.
16.083	7452.2964	17751.45	.	.V	.Q	.	.	.
16.167	7576.2524	17998.41	.	.V	.Q	.	.	.
16.250	7700.6582	18063.75	.	.V	.Q	.	.	.
16.333	7825.7939	18169.68	.	.V	.Q	.	.	.
16.417	7951.5732	18263.14	.	.V	.Q	.	.	.
16.500	8078.3530	18408.41	.	.V	.Q	.	.	.
16.583	8205.6514	18483.75	.	.V	.Q	.	.	.
16.667	8335.1562	18804.13	.	.V	.Q	.	.	.
16.750	8466.2812	19039.36	.	.V	.Q	.	.	.
16.833	8599.3447	19320.77	.	.V	.Q	.	.	.
16.917	8733.7695	19518.52	.	.V	.Q	.	.	.
17.000	8867.3936	19402.22	.	.V	.Q	.	.	.
17.083	9002.7812	19658.33	.	.V	.Q	.	.	.
17.167	9137.8398	19610.51	.	.V	.Q	.	.	.
17.250	9271.0869	19347.42	.	.V	.Q	.	.	.
17.333	9406.0615	19598.25	.	.V	.Q	.	.	.
17.417	9540.1533	19470.09	.	.V	.Q	.	.	.
17.500	9673.5059	19362.74	.	.V	.Q	.	.	.
17.583	9809.1406	19694.20	.	.V	.Q	.	.	.
17.667	9946.3008	19915.62	.	.V	.Q	.	.	.
17.750	10079.9883	19411.46	.	.V	.Q	.	.	.
17.833	10218.6797	20137.97	.	.V	.Q	.	.	.
17.917	10357.1309	20103.12	.	.V	.Q	.	.	.
18.000	10497.0840	20321.24	.	.V	.Q	.	.	.
18.083	10631.8613	19569.69	.	.V	.Q	.	.	.
18.167	10764.8418	19308.73	.	.V	.Q	.	.	.
18.250	10900.5967	19711.58	.	.V	.Q	.	.	.
18.333	11038.6670	20047.85	.	.V	.Q	.	.	.
18.417	11171.2158	19246.12	.	.V	.Q	.	.	.

18.500	11303.0322	19139.67	.	.	.	.	V	Q
18.583	11432.6592	18821.79	.	.	.	.	V	Q
18.667	11561.3359	18683.85	.	.	.	.	V	Q
18.750	11686.5869	18186.38	.	.	.	.	V	Q
18.833	11808.8096	17746.69	.	.	.	.	V	Q
18.917	11929.5020	17524.56	.	.	.	.	V	Q
19.000	12047.9346	17196.47	.	.	.	.	V	Q
19.083	12163.3125	16752.95	.	.	.	.	V	Q
19.167	12275.5615	16298.62	.	.	.	.	VQ	.
19.250	12384.2998	15788.83	.	.	.	.	Q	.
19.333	12489.2510	15238.85	.	.	.	.	Q.V	.
19.417	12591.1211	14791.50	.	.	.	.	Q.V	.
19.500	12690.3408	14406.75	.	.	.	.	Q	.V
19.583	12786.8682	14015.71	.	.	.	.	Q	.V
19.667	12880.4697	13591.00	.	.	.	.	Q	.V
19.750	12971.3691	13198.57	.	.	.	.	Q	.V
19.833	13059.3604	12776.35	.	.	.	.	Q	.V
19.917	13143.5498	12224.32	.	.	.	.	Q	.V
20.000	13224.4932	11752.99	.	.	.	.	Q	.V
20.083	13302.9355	11389.86	.	.	.	.	Q	.V
20.167	13378.8770	11026.67	.	.	.	.	Q	.V
20.250	13451.5938	10558.41	.	.	.	.	Q	.V
20.333	13521.6338	10169.88	.	.	.	.	Q	.V
20.417	13589.5771	9865.35	.	.	.	.	Q	.V
20.500	13655.4268	9561.36	.	.	.	.	Q	.V
20.583	13719.1748	9256.26	.	.	.	.	Q	.V
20.667	13780.5322	8909.14	.	.	.	.	Q	.V
20.750	13839.0996	8503.95	.	.	.	.	Q	.V
20.833	13895.8848	8245.20	.	.	.	.	Q	.V
20.917	13951.0615	8011.71	.	.	.	.	Q	.V
21.000	14004.6807	7785.52	.	.	.	.	Q	.V
21.083	14056.7256	7556.98	.	.	.	.	Q	.V
21.167	14107.2842	7341.16	.	.	.	.	Q	.V
21.250	14156.5225	7149.42	.	.	.	.	Q	.V
21.333	14204.5449	6972.84	.	.	.	.	Q	.V
21.417	14251.4238	6806.80	.	.	.	.	Q	.V
21.500	14297.1895	6645.11	.	.	.	.	Q	.V
21.583	14341.8789	6488.95	.	.	.	.	Q	.V
21.667	14385.5371	6339.11	.	.	.	.	Q	.V
21.750	14428.2832	6206.75	.	.	.	.	Q	.V
21.833	14470.1543	6079.69	.	.	.	.	Q	.V
21.917	14511.2490	5966.90	.	.	.	.	Q	.V
22.000	14551.6094	5860.32	.	.	.	.	Q	.V
22.083	14591.2520	5756.07	.	.	.	.	Q	.V
22.167	14630.2520	5662.82	.	.	.	.	Q	.V
22.250	14668.6885	5581.02	.	.	.	.	Q	.V
22.333	14706.5762	5501.32	.	.	.	.	Q	.V
22.417	14743.9238	5422.86	.	.	.	.	Q	.V
22.500	14780.7568	5348.15	.	.	.	.	Q	.V
22.583	14817.0811	5274.28	.	.	.	.	Q	.V
22.667	14852.9023	5201.30	.	.	.	.	Q	.V
22.750	14888.2773	5136.43	.	.	.	.	Q	.V
22.833	14922.8828	5024.68	.	.	.	.	Q	.V
22.917	14957.0791	4965.28	.	.	.	.	Q	.V
23.000	14990.9102	4912.24	.	.	.	.	Q	.V
23.083	15024.3945	4861.87	.	.	.	.	Q	.V
23.167	15057.5010	4807.02	.	.	.	.	Q	.V
23.250	15090.2314	4752.48	.	.	.	.	Q	.V

23.333	15122.5918	4698.73	.	Q.	.	.	V	.
23.417	15154.5869	4645.71	.	Q.	.	.	V	.
23.500	15186.2227	4593.50	.	Q.	.	.	V	.
23.583	15217.5039	4542.01	.	Q.	.	.	V	.
23.667	15248.4355	4491.24	.	Q.	.	.	V	.
23.750	15279.0225	4441.19	.	Q.	.	.	V	.
23.833	15309.3027	4396.71	.	Q.	.	.	V	.
23.917	15339.2871	4353.68	.	Q.	.	.	V	.
24.000	15368.9814	4311.62	.	Q.	.	.	V	.
24.083	15398.3340	4261.99	.	Q.	.	.	V	.
24.167	15427.2930	4204.79	.	Q.	.	.	V	.
24.250	15455.8643	4148.53	.	Q.	.	.	V	.
24.333	15484.0537	4093.17	.	Q.	.	.	V	.
24.417	15511.8447	4035.27	.	Q.	.	.	V	.
24.500	15539.2061	3972.83	.	Q.	.	.	V	.
24.583	15566.1406	3910.87	.	Q.	.	.	V	.
24.667	15592.5586	3835.87	.	Q.	.	.	V	.
24.750	15618.3887	3750.57	.	Q.	.	.	V	.
24.833	15643.5752	3657.07	.	Q.	.	.	V	.
24.917	15668.0449	3553.00	.	Q.	.	.	V	.
25.000	15691.8193	3451.99	.	Q.	.	.	V	.
25.083	15714.8135	3338.73	.	Q.	.	.	V	.
25.167	15737.0146	3223.67	.	Q.	.	.	V	.
25.250	15758.4961	3119.05	.	Q.	.	.	V	.
25.333	15779.1260	2995.52	.	Q.	.	.	V	.
25.417	15798.9443	2877.62	.	Q.	.	.	V	.
25.500	15818.0078	2768.04	.	Q.	.	.	V	.
25.583	15836.1973	2641.09	.	Q.	.	.	V	.
25.667	15853.4014	2497.97	.	Q.	.	.	V	.
25.750	15869.8076	2382.22	.	Q.	.	.	V	.
25.833	15885.1836	2232.58	.	Q.	.	.	V	.
25.917	15899.5293	2083.02	.	Q.	.	.	V	.
26.000	15912.7451	1918.95	.	Q.	.	.	V	.
26.083	15925.0469	1786.27	.	Q.	.	.	V	.
26.167	15936.5469	1669.78	.	Q.	.	.	V	.
26.250	15947.1270	1536.25	.	Q.	.	.	V	.
26.333	15956.6602	1384.20	.	Q.	.	.	V	.
26.417	15965.3916	1267.76	.	Q.	.	.	V	.
26.500	15973.3330	1153.07	.	Q.	.	.	V	.
26.583	15980.5635	1049.91	.	Q.	.	.	V	.
26.667	15987.0986	948.84	.	Q.	.	.	V	.
26.750	15993.0566	865.16	.	Q.	.	.	V	.
26.833	15998.5195	793.22	.	Q.	.	.	V	.
26.917	16003.4785	720.05	.	Q.	.	.	V	.
27.000	16007.9443	648.50	.	Q.	.	.	V	.
27.083	16011.9629	583.52	.	Q.	.	.	V	.
27.167	16015.5762	524.71	.	Q.	.	.	V	.
27.250	16018.8438	474.49	.	Q.	.	.	V	.
27.333	16021.8154	431.49	.	Q.	.	.	V	.
27.417	16024.5264	393.60	.	Q.	.	.	V	.
27.500	16026.9922	357.99	.	Q.	.	.	V	.
27.583	16029.2256	324.27	.	Q.	.	.	V	.
27.667	16031.2354	291.78	.	Q.	.	.	V	.
27.750	16033.0361	261.43	.	Q.	.	.	V	.
27.833	16034.6328	231.89	.	Q.	.	.	V	.
27.917	16036.0742	209.36	.	Q.	.	.	V	.
28.000	16037.3760	189.08	.	Q.	.	.	V	.
28.083	16038.5391	168.91	.	Q.	.	.	V	.

28.167	16039.5742	150.30	Q	.	.	.	V	.
28.250	16040.5186	137.11	Q	.	.	.	V	.
28.333	16041.3760	124.53	Q	.	.	.	V	.
28.417	16042.1475	112.02	Q	.	.	.	V	.
28.500	16042.8330	99.61	Q	.	.	.	V	.
28.583	16043.4336	87.26	Q	.	.	.	V	.
28.667	16043.9619	76.69	Q	.	.	.	V	.
28.750	16044.4629	72.72	Q	.	.	.	V	.
28.833	16044.9414	69.44	Q	.	.	.	V	.
28.917	16045.3975	66.18	Q	.	.	.	V	.
29.000	16045.8311	62.96	Q	.	.	.	V	.
29.083	16046.2422	59.77	Q	.	.	.	V	.
29.167	16046.6318	56.57	Q	.	.	.	V	.
29.250	16047.0000	53.41	Q	.	.	.	V	.
29.333	16047.3467	50.28	Q	.	.	.	V	.
29.417	16047.6719	47.15	Q	.	.	.	V	.
29.500	16047.9756	44.07	Q	.	.	.	V	.
29.583	16048.2578	41.00	Q	.	.	.	V	.
29.667	16048.5195	37.95	Q	.	.	.	V	.
29.750	16048.7598	34.94	Q	.	.	.	V	.
29.833	16048.9795	31.94	Q	.	.	.	V	.
29.917	16049.1787	28.97	Q	.	.	.	V	.
30.000	16049.3574	26.01	Q	.	.	.	V	.
30.083	16049.5166	23.08	Q	.	.	.	V	.
30.167	16049.6553	20.16	Q	.	.	.	V	.
30.250	16049.7744	17.26	Q	.	.	.	V	.
30.333	16049.8730	14.38	Q	.	.	.	V	.
30.417	16049.9521	11.52	Q	.	.	.	V	.
30.500	16050.0117	8.67	Q	.	.	.	V	.
30.583	16050.0518	5.85	Q	.	.	.	V	.
30.667	16050.0723	3.04	Q	.	.	.	V	.
30.750	16050.0742	0.24	Q	.	.	.	V	.

-----  
TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
(Note: 100% of Peak Flow Rate estimate assumed to have  
an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
0%	1845.0
10%	1425.0
20%	1110.0
30%	585.0
40%	455.0
50%	390.0
60%	330.0
70%	270.0
80%	215.0
90%	135.0

-----  
END OF FLOODSCx ROUTING ANALYSIS

\*\*\*\*\*

FLOOD ROUTING ANALYSIS  
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)  
(c) Copyright 1989-2013 Advanced Engineering Software (aes)  
Ver. 20.0 Release Date: 06/01/2013 License ID 1237

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*  
\* RMV PA-3 BODR 2022 - NODE 126 \*  
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*  
\* 100-YR EV JULY 2022 ROKAMOTO \*  
\*\*\*\*\*

FILE NAME: EV00126S.DAT  
TIME/DATE OF STUDY: 13:39 07/24/2022

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 126.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<

=====

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 50438.699 ACRES  
BASEFLOW = 0.000 CFS/SQUARE-MILE  
\*USER ENTERED "LAG" TIME = 2.046 HOURS  
VALLEY (DEVELOPED) S-GRAPH SELECTED  
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.297  
LOW LOSS FRACTION = 0.378  
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.51  
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.95  
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 1.32  
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 2.48  
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 3.70  
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 6.50

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:  
5-MINUTE FACTOR = 0.341  
30-MINUTE FACTOR = 0.392  
1-HOUR FACTOR = 0.432  
3-HOUR FACTOR = 0.782  
6-HOUR FACTOR = 0.902  
24-HOUR FACTOR = 0.943

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES  
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 4.073

===== UNIT HYDROGRAPH DETERMINATION =====

INTERVAL NUMBER	"S" GRAPH MEAN VALUES	UNIT HYDROGRAPH ORDINATES (CFS)
1	0.233	1419.711
2	0.698	2839.422
3	1.164	2839.422
4	1.629	2839.422
5	2.155	3205.912
6	2.852	4255.699
7	3.561	4320.852
8	4.499	5725.954
9	5.823	8073.983
10	7.457	9967.943
11	9.471	12283.259
12	11.545	12650.124
13	13.634	12745.359
14	16.337	16485.943
15	18.564	13588.729
16	20.931	14434.490
17	23.852	17820.850
18	26.301	14939.122
19	28.898	15840.822
20	31.902	18321.863
21	35.341	20979.320
22	37.992	16171.830
23	41.735	22830.645
24	45.415	22446.002
25	49.545	25195.232
26	52.807	19897.119
27	55.658	17392.332
28	58.927	19936.422
29	62.868	24040.723
30	65.914	18582.096
31	68.769	17414.996
32	71.498	16645.338
33	74.059	15622.975
34	76.395	14250.406
35	78.230	11194.019
36	80.055	11131.518
37	81.936	11475.904
38	83.671	10579.381
39	85.261	9699.658
40	86.656	8512.082
41	87.882	7480.224
42	88.889	6139.814
43	89.841	5809.994
44	90.721	5364.618
45	91.578	5230.121
46	92.394	4977.788
47	93.170	4731.365
48	93.922	4585.093



49	94.481	3413.619
50	94.998	3153.235
51	95.515	3154.724
52	96.001	2964.613
53	96.340	2063.669
54	96.659	1946.671
55	96.978	1949.556
56	97.298	1948.113
57	97.617	1949.602
58	97.926	1880.865
59	98.061	826.343
60	98.138	465.062
61	98.214	466.551
62	98.290	465.109
63	98.367	466.551
64	98.443	468.040
65	98.520	465.062
66	98.596	466.551
67	98.672	465.109
68	98.749	466.551
69	98.825	465.109
70	98.902	467.994
71	98.978	465.109
72	99.054	462.177
73	99.130	462.177
74	99.205	462.177
75	99.281	462.177
76	99.357	462.177
77	99.433	462.177
78	99.508	462.177
79	99.584	462.177
80	99.660	462.177
81	99.736	462.177
82	99.812	462.177
83	99.887	462.177
84	99.963	462.177
85	100.000	225.062

-----  
TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 9571.3330  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 16194.9707  
-----

=====  
2 4 - 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 FIVE-MINUTE UNIT INTERVALS (CFS)  
(Note: Time indicated is at END of Each Unit Intervals)

TIME (HRS)	VOLUME (AF)	Q (CFS)	0.	5100.0	10200.0	15300.0	20400.0
0.083	0.0568	8.25	Q	.	.	.	.
0.167	0.2274	24.77	Q	.	.	.	.
0.250	0.5122	41.34	Q	.	.	.	.
0.333	0.9113	57.96	Q	.	.	.	.
0.417	1.4400	76.76	Q	.	.	.	.
0.500	2.1405	101.71	Q	.	.	.	.
0.583	3.0160	127.12	Q	.	.	.	.
0.667	4.1232	160.77	Q	.	.	.	.
0.750	5.5568	208.16	Q	.	.	.	.
0.833	7.3935	266.69	Q	.	.	.	.
0.917	9.7272	338.86	Q	.	.	.	.
1.000	12.5741	413.36	Q	.	.	.	.
1.083	15.9395	488.65	Q	.	.	.	.
1.167	19.9746	585.91	VQ	.	.	.	.
1.250	24.5655	666.60	VQ	.	.	.	.
1.333	29.7479	752.48	VQ	.	.	.	.
1.417	35.6589	858.28	VQ	.	.	.	.
1.500	42.1856	947.67	VQ	.	.	.	.
1.583	49.3658	1042.57	V Q	.	.	.	.
1.667	57.3010	1152.19	V Q	.	.	.	.
1.750	66.0998	1277.58	V Q	.	.	.	.
1.833	75.5723	1375.41	V Q	.	.	.	.
1.917	85.9875	1512.29	V Q	.	.	.	.
2.000	97.3325	1647.29	V Q	.	.	.	.
2.083	109.7207	1798.77	V Q	.	.	.	.
2.167	122.9427	1919.83	V Q	.	.	.	.
2.250	136.9017	2026.84	V Q	.	.	.	.
2.333	151.7012	2148.89	V Q	.	.	.	.
2.417	167.5089	2295.27	V Q	.	.	.	.
2.500	184.1086	2410.28	V Q	.	.	.	.
2.583	201.4573	2519.03	V Q	.	.	.	.
2.667	219.5257	2623.53	V Q	.	.	.	.
2.750	238.2763	2722.59	V Q	.	.	.	.
2.833	257.6555	2813.86	V Q	.	.	.	.
2.917	277.5442	2887.84	V Q	.	.	.	.
3.000	297.9408	2961.59	V Q	.	.	.	.
3.083	318.8620	3037.75	V Q	.	.	.	.
3.167	340.2727	3108.84	V Q	.	.	.	.
3.250	362.1407	3175.23	V Q	.	.	.	.
3.333	384.4191	3234.83	V Q	.	.	.	.
3.417	407.0693	3288.81	.V Q	.	.	.	.
3.500	430.0383	3335.09	.V Q	.	.	.	.
3.583	453.3152	3379.80	.V Q	.	.	.	.
3.667	476.8825	3421.97	.V Q	.	.	.	.
3.750	500.7372	3463.71	.V Q	.	.	.	.
3.833	524.8696	3504.02	.V Q	.	.	.	.
3.917	549.2722	3543.25	.V Q	.	.	.	.

4.000	573.9392	3581.66	.V	Q	.	.	.	.
4.083	598.8263	3613.60	.V	Q	.	.	.	.
4.167	623.9231	3644.06	.V	Q	.	.	.	.
4.250	649.2319	3674.85	.V	Q	.	.	.	.
4.333	674.7453	3704.54	.V	Q	.	.	.	.
4.417	700.4294	3729.33	.V	Q	.	.	.	.
4.500	726.2795	3753.44	.V	Q	.	.	.	.
4.583	752.2980	3777.88	.V	Q	.	.	.	.
4.667	778.4848	3802.32	.V	Q	.	.	.	.
4.750	804.8422	3827.09	.V	Q	.	.	.	.
4.833	831.3674	3851.46	.V	Q	.	.	.	.
4.917	858.0205	3870.04	.V	Q	.	.	.	.
5.000	884.7870	3886.50	.V	Q	.	.	.	.
5.083	911.6691	3903.28	.V	Q	.	.	.	.
5.167	938.6667	3920.05	.V	Q	.	.	.	.
5.250	965.7819	3937.14	.V	Q	.	.	.	.
5.333	993.0148	3954.22	.V	Q	.	.	.	.
5.417	1020.3676	3971.61	.V	Q	.	.	.	.
5.500	1047.8400	3989.00	.V	Q	.	.	.	.
5.583	1075.4344	4006.72	.V	Q	.	.	.	.
5.667	1103.1509	4024.43	.V	Q	.	.	.	.
5.750	1130.9917	4042.48	.V	Q	.	.	.	.
5.833	1158.9569	4060.55	.V	Q	.	.	.	.
5.917	1187.0488	4078.94	.V	Q	.	.	.	.
6.000	1215.2673	4097.32	.V	Q	.	.	.	.
6.083	1243.6149	4116.06	.V	Q	.	.	.	.
6.167	1272.0914	4134.80	.V	Q	.	.	.	.
6.250	1300.6996	4153.91	.V	Q	.	.	.	.
6.333	1329.4395	4173.02	.V	Q	.	.	.	.
6.417	1358.3136	4192.52	.V	Q	.	.	.	.
6.500	1387.3220	4212.02	.V	Q	.	.	.	.
6.583	1416.4674	4231.92	.V	Q	.	.	.	.
6.667	1445.7499	4251.82	.V	Q	.	.	.	.
6.750	1475.1722	4272.13	.V	Q	.	.	.	.
6.833	1504.7345	4292.44	.V	Q	.	.	.	.
6.917	1534.4396	4313.19	.V	Q	.	.	.	.
7.000	1564.2876	4333.94	.V	Q	.	.	.	.
7.083	1594.2721	4353.75	.V	Q	.	.	.	.
7.167	1624.3840	4372.26	.V	Q	.	.	.	.
7.250	1654.6266	4391.21	.V	Q	.	.	.	.
7.333	1684.9998	4410.18	.V	Q	.	.	.	.
7.417	1715.5066	4429.60	.V	Q	.	.	.	.
7.500	1746.1473	4449.03	.V	Q	.	.	.	.
7.583	1776.9252	4468.94	.V	Q	.	.	.	.
7.667	1807.8402	4488.87	.V	Q	.	.	.	.
7.750	1838.8959	4509.28	.V	Q	.	.	.	.
7.833	1870.0923	4529.71	.V	Q	.	.	.	.
7.917	1901.4329	4550.66	.V	Q	.	.	.	.
8.000	1932.9178	4571.62	.V	Q	.	.	.	.
8.083	1964.5509	4593.12	.V	Q	.	.	.	.
8.167	1996.3322	4614.64	.V	Q	.	.	.	.
8.250	2028.2654	4636.71	.V	Q	.	.	.	.
8.333	2060.3508	4658.82	.V	Q	.	.	.	.
8.417	2092.5925	4681.49	.V	Q	.	.	.	.
8.500	2124.9905	4704.20	.V	Q	.	.	.	.
8.583	2157.5491	4727.51	.V	Q	.	.	.	.
8.667	2190.2683	4750.84	.V	Q	.	.	.	.
8.750	2223.1526	4774.81	.V	Q	.	.	.	.

8.833	2256.2024	4798.82	.	V	Q	.	.	.
8.917	2289.4219	4823.48	.	V	Q	.	.	.
9.000	2322.8115	4848.18	.	V	Q	.	.	.
9.083	2356.3760	4873.56	.	V	Q	.	.	.
9.167	2390.1157	4899.01	.	V	Q	.	.	.
9.250	2424.0354	4925.14	.	V	Q	.	.	.
9.333	2458.1355	4951.35	.	V	Q	.	.	.
9.417	2492.4211	4978.29	.	V	Q	.	.	.
9.500	2526.8931	5005.31	.	V	Q	.	.	.
9.583	2561.5562	5033.08	.	V	Q	.	.	.
9.667	2596.4111	5060.95	.	V	Q	.	.	.
9.750	2631.4636	5089.61	.	V	Q	.	.	.
9.833	2666.7141	5118.38	.	V	Q	.	.	.
9.917	2702.1685	5147.97	.	V	Q	.	.	.
10.000	2737.8274	5177.69	.	V	Q	.	.	.
10.083	2773.6970	5208.26	.	V	Q	.	.	.
10.167	2809.7781	5238.97	.	V	Q	.	.	.
10.250	2846.0769	5270.58	.	V	Q	.	.	.
10.333	2882.5945	5302.35	.	V	Q	.	.	.
10.417	2919.3374	5335.07	.	V	Q	.	.	.
10.500	2956.3069	5367.95	.	V	Q	.	.	.
10.583	2993.5095	5401.83	.	V	Q	.	.	.
10.667	3030.9468	5435.90	.	V	Q	.	.	.
10.750	3068.6260	5471.01	.	V	Q	.	.	.
10.833	3106.5483	5506.34	.	V	Q	.	.	.
10.917	3144.7217	5542.76	.	V	Q	.	.	.
11.000	3183.1475	5579.43	.	V	Q	.	.	.
11.083	3221.8337	5617.25	.	V	Q	.	.	.
11.167	3260.7825	5655.34	.	V	Q	.	.	.
11.250	3300.0017	5694.65	.	V	Q	.	.	.
11.333	3339.4939	5734.26	.	V	Q	.	.	.
11.417	3379.2676	5775.15	.	V	Q	.	.	.
11.500	3419.3254	5816.39	.	V	Q	.	.	.
11.583	3459.6765	5858.98	.	V	Q	.	.	.
11.667	3500.3235	5901.95	.	V	Q	.	.	.
11.750	3541.2764	5946.37	.	V	Q	.	.	.
11.833	3582.5381	5991.20	.	V	Q	.	.	.
11.917	3624.1191	6037.57	.	V	Q	.	.	.
12.000	3666.0229	6084.42	.	V	Q	.	.	.
12.083	3708.3579	6147.05	.	V	Q	.	.	.
12.167	3751.2253	6224.34	.	V	Q	.	.	.
12.250	3794.6360	6303.22	.	V	Q	.	.	.
12.333	3838.5930	6382.55	.	V	Q	.	.	.
12.417	3883.1333	6467.24	.	V	Q	.	.	.
12.500	3928.3323	6562.91	.	V	Q	.	.	.
12.583	3974.2068	6660.98	.	V	Q	.	.	.
12.667	4020.8567	6773.56	.	V	Q	.	.	.
12.750	4068.4558	6911.41	.	V	Q	.	.	.
12.833	4117.1372	7068.53	.	V	Q	.	.	.
12.917	4167.0718	7250.51	.	V	Q	.	.	.
13.000	4218.2866	7436.39	.	V	Q	.	.	.
13.083	4270.7998	7624.93	.	V	Q	.	.	.
13.167	4324.8701	7851.04	.	V	Q	.	.	.
13.250	4380.3105	8049.97	.	V	Q	.	.	.
13.333	4437.1802	8257.49	.	V	Q	.	.	.
13.417	4495.7256	8500.80	.	.V	Q	.	.	.
13.500	4555.7490	8715.39	.	.V	Q	.	.	.
13.583	4617.3262	8941.01	.	.V	Q	.	.	.

13.667	4680.6294	9191.62	.	.V	Q	.	.	.
13.750	4745.8555	9470.81	.	.V	Q	.	.	.
13.833	4812.6743	9702.08	.	.V	Q	.	.	.
13.917	4881.5586	10002.01	.	.V	Q	.	.	.
14.000	4952.4834	10298.31	.	.V	Q	.	.	.
14.083	5025.7578	10639.42	.	.V	Q	.	.	.
14.167	5101.1221	10942.89	.	.V	.Q	.	.	.
14.250	5178.4106	11222.30	.	.V	.Q	.	.	.
14.333	5257.7949	11526.58	.	.V	.Q	.	.	.
14.417	5339.5918	11876.91	.	.V	.Q	.	.	.
14.500	5423.4985	12183.26	.	.V	.Q	.	.	.
14.583	5509.4443	12479.32	.	.V	.Q	.	.	.
14.667	5597.4731	12781.80	.	.V	.Q	.	.	.
14.750	5687.6929	13099.93	.	.V	.Q	.	.	.
14.833	5780.1333	13422.36	.	.V	.Q	.	.	.
14.917	5874.7480	13738.06	.	.V	.Q	.	.	.
15.000	5971.5308	14052.84	.	.V	.Q	.	.	.
15.083	6070.4937	14369.39	.	.V	.Q	.	.	.
15.167	6171.8208	14712.68	.	.V	.Q	.	.	.
15.250	6275.2070	15011.71	.	.V	.Q	.	.	.
15.333	6380.5889	15301.46	.	.V	.Q	.	.	.
15.417	6487.9878	15594.36	.	.V	.Q	.	.	.
15.500	6596.9077	15815.16	.	.V	.Q	.	.	.
15.583	6707.3945	16042.71	.	.V	.Q	.	.	.
15.667	6819.5845	16289.97	.	.V	.Q	.	.	.
15.750	6933.5659	16550.13	.	.V	.Q	.	.	.
15.833	7048.7749	16728.33	.	.V	.Q	.	.	.
15.917	7165.7598	16986.20	.	.V	.Q	.	.	.
16.000	7284.4712	17236.93	.	.V	.Q	.	.	.
16.083	7405.9331	17636.29	.	.V	.Q	.	.	.
16.167	7529.3442	17919.26	.	.V	.Q	.	.	.
16.250	7653.0879	17967.58	.	.V	.Q	.	.	.
16.333	7777.3428	18041.78	.	.V	.Q	.	.	.
16.417	7902.7471	18208.70	.	.V	.Q	.	.	.
16.500	8029.1758	18357.42	.	.V	.Q	.	.	.
16.583	8156.1401	18435.24	.	.V	.Q	.	.	.
16.667	8284.8281	18685.55	.	.V	.Q	.	.	.
16.750	8415.6387	18993.66	.	.V	.Q	.	.	.
16.833	8548.3398	19268.27	.	.V	.Q	.	.	.
16.917	8682.8369	19529.04	.	.V	.Q	.	.	.
17.000	8817.3652	19533.51	.	.V	.Q	.	.	.
17.083	8951.5137	19478.41	.	.V	.Q	.	.	.
17.167	9088.5713	19900.77	.	.V	.Q	.	.	.
17.250	9222.7383	19481.03	.	.V	.Q	.	.	.
17.333	9357.2324	19528.60	.	.V	.Q	.	.	.
17.417	9493.3438	19763.34	.	.V	.Q	.	.	.
17.500	9627.1631	19430.57	.	.V	.Q	.	.	.
17.583	9761.9248	19567.35	.	.V	.Q	.	.	.
17.667	9898.3613	19810.53	.	.V	.Q	.	.	.
17.750	10036.0547	19993.01	.	.V	.Q	.	.	.
17.833	10169.8252	19423.44	.	.V	.Q	.	.	.
17.917	10309.0889	20221.02	.	.V	.Q	.	.	.
18.000	10447.7021	20126.71	.	.V	.Q	.	.	.
18.083	10587.7646	20337.07	.	.V	.Q	.	.	.
18.167	10722.1748	19516.43	.	.V	.Q	.	.	.
18.250	10855.0635	19295.39	.	.V	.Q	.	.	.
18.333	10990.3496	19643.51	.	.V	.Q	.	.	.
18.417	11128.5029	20059.83	.	.V	.Q	.	.	.

18.500	11261.4795	19308.14	.	.	.	.	V	.Q	.
18.583	11392.8320	19072.46	.	.	.	.	V	.Q	.
18.667	11522.7207	18859.81	.	.	.	.	V	.Q	.
18.750	11650.9404	18617.51	.	.	.	.	V	.Q	.
18.833	11777.0049	18304.55	.	.	.	.	V	.Q	.
18.917	11898.9316	17703.78	.	.	.	.	V	.Q	.
19.000	12019.2090	17464.32	.	.	.	.	V	.Q	.
19.083	12137.6982	17204.62	.	.	.	.	V	.Q	.
19.167	12253.3311	16789.96	.	.	.	.	V	.Q	.
19.250	12366.1562	16382.26	.	.	.	.	V	.Q	.
19.333	12475.5879	15889.52	.	.	.	.	V	.Q	.
19.417	12581.3145	15351.46	.	.	.	.	V	.Q	.
19.500	12683.6553	14859.93	.	.	.	.	V	.Q	.
19.583	12783.4023	14483.30	.	.	.	.	V	.Q	.
19.667	12880.2461	14061.71	.	.	.	.	V	.Q	.
19.750	12974.3516	13664.18	.	.	.	.	V	.Q	.
19.833	13065.8955	13292.21	.	.	.	.	V	.Q	.
19.917	13154.5400	12871.16	.	.	.	.	V	.Q	.
20.000	13240.2646	12447.22	.	.	.	.	V	.Q	.
20.083	13322.0625	11876.98	.	.	.	.	V	.Q	.
20.167	13401.1309	11480.78	.	.	.	.	V	.Q	.
20.250	13477.9434	11153.12	.	.	.	.	V	.Q	.
20.333	13552.2314	10786.67	.	.	.	.	V	.Q	.
20.417	13623.1367	10295.44	.	.	.	.	V	.Q	.
20.500	13691.7871	9968.03	.	.	.	.	V	.Q	.
20.583	13758.4219	9675.38	.	.	.	.	V	.Q	.
20.667	13823.1211	9394.30	.	.	.	.	V	.Q	.
20.750	13885.8252	9104.63	.	.	.	.	V	.Q	.
20.833	13946.4922	8808.91	.	.	.	.	V	.Q	.
20.917	14004.5801	8434.40	.	.	.	.	V	.Q	.
21.000	14060.7471	8155.50	.	.	.	.	V	.Q	.
21.083	14115.3604	7929.84	.	.	.	.	V	.Q	.
21.167	14168.5088	7717.10	.	.	.	.	V	.Q	.
21.250	14220.1797	7502.61	.	.	.	.	V	.Q	.
21.333	14270.4434	7298.29	.	.	.	.	V	.Q	.
21.417	14319.4434	7114.73	.	.	.	.	V	.Q	.
21.500	14367.2949	6948.08	.	.	.	.	V	.Q	.
21.583	14414.0322	6786.21	.	.	.	.	V	.Q	.
21.667	14459.7002	6630.96	.	.	.	.	V	.Q	.
21.750	14504.3174	6478.36	.	.	.	.	V	.Q	.
21.833	14547.9199	6331.15	.	.	.	.	V	.Q	.
21.917	14590.6123	6198.99	.	.	.	.	V	.Q	.
22.000	14632.4492	6074.73	.	.	.	.	V	.Q	.
22.083	14673.5303	5965.04	.	.	.	.	V	.Q	.
22.167	14713.8916	5860.47	.	.	.	.	V	.Q	.
22.250	14753.5488	5758.19	.	.	.	.	V	.Q	.
22.333	14792.5293	5659.97	.	.	.	.	V	.Q	.
22.417	14830.9336	5576.32	.	.	.	.	V	.Q	.
22.500	14868.8047	5498.90	.	.	.	.	V	.Q	.
22.583	14906.1514	5422.73	.	.	.	.	V	.Q	.
22.667	14942.9805	5347.64	.	.	.	.	V	.Q	.
22.750	14979.3096	5274.95	.	.	.	.	V	.Q	.
22.833	15015.1562	5204.93	.	.	.	.	V	.Q	.
22.917	15050.5869	5144.57	.	.	.	.	V	.Q	.
23.000	15085.6094	5085.21	.	.	.	.	V	.Q	.
23.083	15120.0352	4998.61	.	.	.	.	V	.Q	.
23.167	15153.9072	4918.18	.	.	.	.	V	.Q	.
23.250	15187.4287	4867.28	.	.	.	.	V	.Q	.

23.333	15220.6123	4818.19	.	Q.	.	.	V	.
23.417	15253.4492	4767.85	.	Q.	.	.	V	.
23.500	15285.9248	4715.44	.	Q.	.	.	V	.
23.583	15318.0439	4663.74	.	Q.	.	.	V	.
23.667	15349.8115	4612.72	.	Q.	.	.	V	.
23.750	15381.2334	4562.40	.	Q.	.	.	V	.
23.833	15412.3125	4512.73	.	Q.	.	.	V	.
23.917	15443.0547	4463.76	.	Q.	.	.	V	.
24.000	15473.4639	4415.46	.	Q.	.	.	V	.
24.083	15503.5068	4362.18	.	Q.	.	.	V	.
24.167	15533.1484	4304.01	.	Q.	.	.	V	.
24.250	15562.3965	4246.85	.	Q.	.	.	V	.
24.333	15591.2578	4190.68	.	Q.	.	.	V	.
24.417	15619.7246	4133.31	.	Q.	.	.	V	.
24.500	15647.7598	4070.76	.	Q.	.	.	V	.
24.583	15675.3682	4008.73	.	Q.	.	.	V	.
24.667	15702.4990	3939.43	.	Q.	.	.	V	.
24.750	15729.0654	3857.39	.	Q.	.	.	V	.
24.833	15754.9971	3765.30	.	Q.	.	.	V	.
24.917	15780.2090	3660.75	.	Q.	.	.	V	.
25.000	15804.6934	3555.09	.	Q.	.	.	V	.
25.083	15828.4688	3452.25	.	Q.	.	.	V	.
25.167	15851.4092	3330.96	.	Q.	.	.	V	.
25.250	15873.6377	3227.58	.	Q.	.	.	V	.
25.333	15895.1270	3120.29	.	Q.	.	.	V	.
25.417	15915.7490	2994.34	.	Q.	.	.	V	.
25.500	15935.6260	2886.18	.	Q.	.	.	V	.
25.583	15954.7285	2773.73	.	Q.	.	.	V	.
25.667	15972.9648	2647.85	.	Q.	.	.	V	.
25.750	15990.2344	2507.56	.	Q.	.	.	V	.
25.833	16006.7373	2396.25	.	Q.	.	.	V	.
25.917	16022.2139	2247.20	.	Q.	.	.	V	.
26.000	16036.6865	2101.48	.	Q.	.	.	V	.
26.083	16050.0537	1940.86	.	Q.	.	.	V	.
26.167	16062.5342	1812.12	.	Q.	.	.	V	.
26.250	16074.2344	1698.83	.	Q.	.	.	V	.
26.333	16085.0586	1571.61	.	Q.	.	.	V	.
26.417	16094.8486	1421.48	.	Q.	.	.	V	.
26.500	16103.8291	1304.02	.	Q.	.	.	V	.
26.583	16112.0537	1194.15	.	Q.	.	.	V	.
26.667	16119.5576	1089.50	.	Q.	.	.	V	.
26.750	16126.3857	991.49	.	Q.	.	.	V	.
26.833	16132.5986	902.11	.	Q.	.	.	V	.
26.917	16138.3223	831.08	.	Q.	.	.	V	.
27.000	16143.5625	760.89	.	Q.	.	.	V	.
27.083	16148.3086	689.19	.	Q.	.	.	V	.
27.167	16152.6006	623.18	.	Q.	.	.	V	.
27.250	16156.4756	562.71	.	Q.	.	.	V	.
27.333	16159.9844	509.54	.	Q.	.	.	V	.
27.417	16163.1709	462.71	.	Q.	.	.	V	.
27.500	16166.0908	423.97	.	Q.	.	.	V	.
27.583	16168.7588	387.41	.	Q.	.	.	V	.
27.667	16171.1943	353.69	.	Q.	.	.	V	.
27.750	16173.4053	320.98	.	Q.	.	.	V	.
27.833	16175.4023	289.95	.	Q.	.	.	V	.
27.917	16177.1973	260.55	.	Q.	.	.	V	.
28.000	16178.7969	232.20	.	Q.	.	.	V	.
28.083	16180.2490	210.84	.	Q.	.	.	V	.

28.167	16181.5654	191.13	Q	.	.	.	V.	.
28.250	16182.7471	171.54	Q	.	.	.	V.	.
28.333	16183.8018	153.19	Q	.	.	.	V.	.
28.417	16184.7676	140.18	Q	.	.	.	V.	.
28.500	16185.6484	127.94	Q	.	.	.	V.	.
28.583	16186.4453	115.77	Q	.	.	.	V.	.
28.667	16187.1592	103.69	Q	.	.	.	V.	.
28.750	16187.7910	91.68	Q	.	.	.	V.	.
28.833	16188.3428	80.15	Q	.	.	.	V.	.
28.917	16188.8584	74.81	Q	.	.	.	V.	.
29.000	16189.3516	71.60	Q	.	.	.	V.	.
29.083	16189.8223	68.41	Q	.	.	.	V.	.
29.167	16190.2715	65.26	Q	.	.	.	V.	.
29.250	16190.6992	62.12	Q	.	.	.	V.	.
29.333	16191.1055	58.99	Q	.	.	.	V.	.
29.417	16191.4902	55.91	Q	.	.	.	V.	.
29.500	16191.8545	52.84	Q	.	.	.	V.	.
29.583	16192.1973	49.80	Q	.	.	.	V.	.
29.667	16192.5195	46.77	Q	.	.	.	V.	.
29.750	16192.8213	43.77	Q	.	.	.	V.	.
29.833	16193.1025	40.78	Q	.	.	.	V.	.
29.917	16193.3633	37.82	Q	.	.	.	V.	.
30.000	16193.6035	34.90	Q	.	.	.	V.	.
30.083	16193.8242	32.00	Q	.	.	.	V.	.
30.167	16194.0244	29.12	Q	.	.	.	V.	.
30.250	16194.2051	26.26	Q	.	.	.	V.	.
30.333	16194.3662	23.42	Q	.	.	.	V.	.
30.417	16194.5078	20.60	Q	.	.	.	V.	.
30.500	16194.6299	17.79	Q	.	.	.	V.	.
30.583	16194.7334	15.00	Q	.	.	.	V.	.
30.667	16194.8174	12.23	Q	.	.	.	V.	.
30.750	16194.8828	9.48	Q	.	.	.	V.	.
30.833	16194.9297	6.74	Q	.	.	.	V.	.
30.917	16194.9570	4.02	Q	.	.	.	V.	.
31.000	16194.9658	1.31	Q	.	.	.	V.	.

-----  
TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
(Note: 100% of Peak Flow Rate estimate assumed to have  
an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
0%	1860.0
10%	1425.0
20%	1120.0
30%	595.0
40%	465.0
50%	390.0
60%	330.0
70%	275.0
80%	220.0
90%	145.0

-----  
END OF FLOODSCx ROUTING ANALYSIS

\*\*\*\*\*

FLOOD ROUTING ANALYSIS  
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)  
(c) Copyright 1989-2013 Advanced Engineering Software (aes)  
Ver. 20.0 Release Date: 06/01/2013 License ID 1237

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*  
\* RMV PA-3 BODR 2022 - NODE 127 \*  
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*  
\* 100-YR EV JULY 2022 ROKAMOTO \*  
\*\*\*\*\*

FILE NAME: EV00127S.DAT  
TIME/DATE OF STUDY: 13:40 07/24/2022

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 127.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<

=====

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 52666.000 ACRES  
BASEFLOW = 0.000 CFS/SQUARE-MILE  
\*USER ENTERED "LAG" TIME = 2.155 HOURS  
VALLEY (DEVELOPED) S-GRAPH SELECTED  
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.291  
LOW LOSS FRACTION = 0.382  
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.50  
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.95  
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 1.31  
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 2.45  
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 3.66  
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 6.42

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:  
5-MINUTE FACTOR = 0.333  
30-MINUTE FACTOR = 0.385  
1-HOUR FACTOR = 0.425  
3-HOUR FACTOR = 0.775  
6-HOUR FACTOR = 0.899  
24-HOUR FACTOR = 0.941

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES  
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 3.867

UNIT HYDROGRAPH DETERMINATION

INTERVAL NUMBER	"S" GRAPH MEAN VALUES	UNIT HYDROGRAPH ORDINATES (CFS)
1	0.221	1407.424
2	0.663	2814.845
3	1.105	2814.847
4	1.547	2814.849
5	2.015	2980.176
6	2.655	4080.678
7	3.328	4283.465
8	4.071	4734.310
9	5.238	7432.871
10	6.628	8854.870
11	8.347	10948.893
12	10.354	12779.007
13	12.294	12355.359
14	14.448	13723.483
15	16.971	16067.335
16	19.034	13140.351
17	21.387	14986.760
18	24.174	17749.648
19	26.451	14504.259
20	28.937	15832.827
21	31.773	18067.926
22	35.081	21066.871
23	37.551	15729.371
24	41.039	22217.963
25	44.522	22182.562
26	48.346	24357.648
27	51.800	21999.996
28	54.552	17527.975
29	57.383	18031.846
30	60.945	22685.824
31	64.362	21765.748
32	67.023	16947.109
33	69.834	17906.156
34	72.259	15443.614
35	74.711	15622.100
36	76.789	13235.898
37	78.509	10950.237
38	80.247	11074.492
39	82.033	11374.462
40	83.675	10456.864
41	85.186	9622.021
42	86.532	8572.442
43	87.712	7518.102
44	88.697	6275.557
45	89.607	5793.797
46	90.463	5449.607
47	91.277	5184.965
48	92.076	5093.317

49	92.819	4728.960
50	93.555	4690.376
51	94.193	4064.682
52	94.685	3134.936
53	95.177	3128.521
54	95.668	3126.918
55	96.095	2721.596
56	96.401	1951.092
57	96.705	1931.800
58	97.008	1931.800
59	97.311	1931.800
60	97.614	1931.800
61	97.912	1894.820
62	98.053	897.529
63	98.126	463.245
64	98.198	458.434
65	98.270	463.245
66	98.343	463.245
67	98.416	463.245
68	98.488	458.434
69	98.560	463.245
70	98.633	460.038
71	98.705	463.245
72	98.778	463.245
73	98.850	456.831
74	98.923	466.452
75	98.996	463.245
76	99.068	456.782
77	99.139	456.782
78	99.211	456.782
79	99.283	456.782
80	99.354	456.782
81	99.426	456.782
82	99.498	456.782
83	99.570	456.782
84	99.641	456.782
85	99.713	456.782
86	99.785	456.782
87	99.856	456.782
88	99.928	456.782
89	100.000	456.782
90	100.000	0.972

-----  
TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 9951.0449  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 16549.3184  
-----

=====

2 4 - 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 FIVE-MINUTE UNIT INTERVALS (CFS)  
(Note: Time indicated is at END of Each Unit Intervals)

TIME (HRS)	VOLUME (AF)	Q (CFS)	0.	5125.0	10250.0	15375.0	20500.0
0.083	0.0551	8.00	Q	.	.	.	.
0.167	0.2206	24.03	Q	.	.	.	.
0.250	0.4968	40.10	Q	.	.	.	.
0.333	0.8840	56.22	Q	.	.	.	.
0.417	1.3891	73.33	Q	.	.	.	.
0.500	2.0554	96.75	Q	.	.	.	.
0.583	2.8914	121.39	Q	.	.	.	.
0.667	3.9153	148.67	Q	.	.	.	.
0.750	5.2332	191.37	Q	.	.	.	.
0.833	6.9018	242.28	Q	.	.	.	.
0.917	9.0041	305.25	Q	.	.	.	.
1.000	11.6129	378.81	Q	.	.	.	.
1.083	14.7134	450.18	Q	.	.	.	.
1.167	18.3604	529.55	VQ	.	.	.	.
1.250	22.6475	622.49	VQ	.	.	.	.
1.333	27.4619	699.05	VQ	.	.	.	.
1.417	32.8777	786.37	VQ	.	.	.	.
1.500	39.0047	889.64	VQ	.	.	.	.
1.583	45.7181	974.79	VQ	.	.	.	.
1.667	53.0719	1067.76	V Q	.	.	.	.
1.750	61.1554	1173.72	V Q	.	.	.	.
1.833	70.0883	1297.07	V Q	.	.	.	.
1.917	79.6643	1390.43	V Q	.	.	.	.
2.000	90.1397	1521.03	V Q	.	.	.	.
2.083	101.5155	1651.76	V Q	.	.	.	.
2.167	113.8801	1795.35	V Q	.	.	.	.
2.250	127.1438	1925.89	V Q	.	.	.	.
2.333	141.1350	2031.52	V Q	.	.	.	.
2.417	155.8752	2140.27	V Q	.	.	.	.
2.500	171.5496	2275.93	V Q	.	.	.	.
2.583	188.1246	2406.69	V Q	.	.	.	.
2.667	205.4151	2510.58	V Q	.	.	.	.
2.750	223.4605	2620.19	V Q	.	.	.	.
2.833	242.1674	2716.24	V Q	.	.	.	.
2.917	261.5445	2813.56	V Q	.	.	.	.
3.000	281.5013	2897.73	V Q	.	.	.	.
3.083	301.9499	2969.13	V Q	.	.	.	.
3.167	322.8973	3041.57	V Q	.	.	.	.
3.250	344.3568	3115.92	V Q	.	.	.	.
3.333	366.2948	3185.40	V Q	.	.	.	.
3.417	388.6800	3250.33	V Q	.	.	.	.
3.500	411.4735	3309.61	V Q	.	.	.	.
3.583	434.6352	3363.08	.V Q	.	.	.	.
3.667	458.1183	3409.76	.V Q	.	.	.	.
3.750	481.9052	3453.85	.V Q	.	.	.	.
3.833	505.9840	3496.25	.V Q	.	.	.	.
3.917	530.3454	3537.27	.V Q	.	.	.	.

4.000	554.9875	3578.04	.V	Q	.	.	.	.
4.083	579.8970	3616.86	.V	Q	.	.	.	.
4.167	605.0742	3655.72	.V	Q	.	.	.	.
4.250	630.4952	3691.14	.V	Q	.	.	.	.
4.333	656.1257	3721.54	.V	Q	.	.	.	.
4.417	681.9660	3752.00	.V	Q	.	.	.	.
4.500	708.0177	3782.70	.V	Q	.	.	.	.
4.583	734.2656	3811.20	.V	Q	.	.	.	.
4.667	760.6813	3835.56	.V	Q	.	.	.	.
4.750	787.2647	3859.91	.V	Q	.	.	.	.
4.833	814.0174	3884.49	.V	Q	.	.	.	.
4.917	840.9400	3909.16	.V	Q	.	.	.	.
5.000	868.0342	3934.07	.V	Q	.	.	.	.
5.083	895.2991	3958.88	.V	Q	.	.	.	.
5.167	922.6976	3978.26	.V	Q	.	.	.	.
5.250	950.2131	3995.25	.V	Q	.	.	.	.
5.333	977.8470	4012.45	.V	Q	.	.	.	.
5.417	1005.6002	4029.76	.V	Q	.	.	.	.
5.500	1033.4741	4047.30	.V	Q	.	.	.	.
5.583	1061.4695	4064.93	.V	Q	.	.	.	.
5.667	1089.5878	4082.77	.V	Q	.	.	.	.
5.750	1117.8297	4100.73	.V	Q	.	.	.	.
5.833	1146.1969	4118.92	.V	Q	.	.	.	.
5.917	1174.6902	4137.22	.V	Q	.	.	.	.
6.000	1203.3113	4155.79	.V	Q	.	.	.	.
6.083	1232.0607	4174.41	.V	Q	.	.	.	.
6.167	1260.9406	4193.35	.V	Q	.	.	.	.
6.250	1289.9514	4212.38	.V	Q	.	.	.	.
6.333	1319.0950	4231.65	.V	Q	.	.	.	.
6.417	1348.3719	4251.02	.V	Q	.	.	.	.
6.500	1377.7843	4270.67	.V	Q	.	.	.	.
6.583	1407.3328	4290.43	.V	Q	.	.	.	.
6.667	1437.0194	4310.49	.V	Q	.	.	.	.
6.750	1466.8450	4330.67	.V	Q	.	.	.	.
6.833	1496.8115	4351.15	.V	Q	.	.	.	.
6.917	1526.9200	4371.75	.V	Q	.	.	.	.
7.000	1557.1725	4392.66	.V	Q	.	.	.	.
7.083	1587.5699	4413.70	.V	Q	.	.	.	.
7.167	1618.1145	4435.07	.V	Q	.	.	.	.
7.250	1648.8071	4456.57	.V	Q	.	.	.	.
7.333	1679.6501	4478.40	.V	Q	.	.	.	.
7.417	1710.6445	4500.38	.V	Q	.	.	.	.
7.500	1741.7748	4520.11	.V	Q	.	.	.	.
7.583	1773.0419	4539.98	.V	Q	.	.	.	.
7.667	1804.4482	4560.20	.V	Q	.	.	.	.
7.750	1835.9949	4580.57	.V	Q	.	.	.	.
7.833	1867.6843	4601.30	.V	Q	.	.	.	.
7.917	1899.5176	4622.19	.V	Q	.	.	.	.
8.000	1931.4973	4643.46	.V	Q	.	.	.	.
8.083	1963.6248	4664.90	.V	Q	.	.	.	.
8.167	1995.9025	4686.73	.V	Q	.	.	.	.
8.250	2028.3318	4708.73	.V	Q	.	.	.	.
8.333	2060.9155	4731.14	.V	Q	.	.	.	.
8.417	2093.6548	4753.74	.V	Q	.	.	.	.
8.500	2126.5527	4776.77	.V	Q	.	.	.	.
8.583	2159.6106	4799.99	.V	Q	.	.	.	.
8.667	2192.8313	4823.65	.V	Q	.	.	.	.
8.750	2226.2163	4847.52	.V	Q	.	.	.	.

8.833	2259.7690	4871.85	.	V	Q	.	.	.
8.917	2293.4907	4896.40	.	V	Q	.	.	.
9.000	2327.3850	4921.43	.	V	Q	.	.	.
9.083	2361.4531	4946.70	.	V	Q	.	.	.
9.167	2395.6987	4972.46	.	V	Q	.	.	.
9.250	2430.1235	4998.48	.	V	Q	.	.	.
9.333	2464.7312	5025.02	.	V	Q	.	.	.
9.417	2499.5234	5051.82	.	V	Q	.	.	.
9.500	2534.5039	5079.17	.	V	Q	.	.	.
9.583	2569.6746	5106.79	.	V	Q	.	.	.
9.667	2605.0396	5135.00	.	V	Q	.	.	.
9.750	2640.6008	5163.49	.	V	Q	.	.	.
9.833	2676.3625	5192.60	.	V	Q	.	.	.
9.917	2712.3269	5222.01	.	V	Q	.	.	.
10.000	2748.4980	5252.06	.	V	Q	.	.	.
10.083	2784.8784	5282.43	.	V	Q	.	.	.
10.167	2821.4727	5313.49	.	V	Q	.	.	.
10.250	2858.2832	5344.88	.	V	Q	.	.	.
10.333	2895.3147	5376.99	.	V	Q	.	.	.
10.417	2932.5701	5409.46	.	V	Q	.	.	.
10.500	2970.0542	5442.69	.	V	Q	.	.	.
10.583	3007.7698	5476.31	.	V	Q	.	.	.
10.667	3045.7224	5510.72	.	V	Q	.	.	.
10.750	3083.9148	5545.55	.	V	Q	.	.	.
10.833	3122.3528	5581.21	.	V	Q	.	.	.
10.917	3161.0396	5617.33	.	V	Q	.	.	.
11.000	3199.9812	5654.32	.	V	.Q	.	.	.
11.083	3239.1809	5691.81	.	V	.Q	.	.	.
11.167	3278.6453	5730.22	.	V	.Q	.	.	.
11.250	3318.3779	5769.17	.	V	.Q	.	.	.
11.333	3358.3855	5809.09	.	V	.Q	.	.	.
11.417	3398.6719	5849.59	.	V	.Q	.	.	.
11.500	3439.2444	5891.13	.	V	.Q	.	.	.
11.583	3480.1072	5933.29	.	V	.Q	.	.	.
11.667	3521.2681	5976.57	.	V	.Q	.	.	.
11.750	3562.7317	6020.50	.	V	.Q	.	.	.
11.833	3604.5059	6065.62	.	V	.Q	.	.	.
11.917	3646.5959	6111.47	.	V	.Q	.	.	.
12.000	3689.0105	6158.58	.	V	.Q	.	.	.
12.083	3731.8506	6220.39	.	V	.Q	.	.	.
12.167	3775.2212	6297.41	.	V	.Q	.	.	.
12.250	3819.1272	6375.15	.	V	.Q	.	.	.
12.333	3863.5776	6454.21	.	V	.Q	.	.	.
12.417	3908.5891	6535.67	.	V	.Q	.	.	.
12.500	3954.2461	6629.41	.	V	.Q	.	.	.
12.583	4000.5681	6725.95	.	V	.Q	.	.	.
12.667	4047.5957	6828.39	.	V	.Q	.	.	.
12.750	4095.5181	6958.33	.	V	.Q	.	.	.
12.833	4144.4419	7103.75	.	V	.Q	.	.	.
12.917	4194.5146	7270.57	.	V	.Q	.	.	.
13.000	4245.8701	7456.84	.	V	.Q	.	.	.
13.083	4298.4839	7639.50	.	V	.Q	.	.	.
13.167	4352.4580	7837.05	.	V	.Q	.	.	.
13.250	4407.9565	8058.37	.	V	.Q	.	.	.
13.333	4464.7891	8252.09	.	V	.Q	.	.	.
13.417	4523.0859	8464.67	.	V	.Q	.	.	.
13.500	4583.0454	8706.12	.	.V	.Q	.	.	.
13.583	4644.4502	8915.97	.	.V	.Q	.	.	.

13.667	4707.4019	9140.57	.	.V	Q	.	.	.
13.750	4772.0571	9387.97	.	.V	Q	.	.	.
13.833	4838.6318	9666.62	.	.V	Q	.	.	.
13.917	4906.7661	9893.09	.	.V	Q.	.	.	.
14.000	4976.9136	10185.41	.	.V	Q.	.	.	.
14.083	5049.1797	10493.04	.	.V	Q	.	.	.
14.167	5123.8223	10838.10	.	.V	.Q	.	.	.
14.250	5200.6787	11159.52	.	.V	.Q	.	.	.
14.333	5279.4463	11437.08	.	.V	.Q	.	.	.
14.417	5360.1719	11721.33	.	.V	.Q	.	.	.
14.500	5443.2559	12063.83	.	.V	.Q	.	.	.
14.583	5528.6470	12398.82	.	.V	.Q	.	.	.
14.667	5616.0488	12690.72	.	.V	.Q	.	.	.
14.750	5705.7183	13020.00	.	.V	.Q	.	.	.
14.833	5797.5850	13339.04	.	.V	.Q	.	.	.
14.917	5891.7959	13679.44	.	.V	.Q	.	.	.
15.000	5988.3066	14013.36	.	.V	.Q	.	.	.
15.083	6086.9009	14315.90	.	.V	.Q	.	.	.
15.167	6187.6655	14631.01	.	.V	.Q	.	.	.
15.250	6290.7588	14969.12	.	.V	.Q	.	.	.
15.333	6395.8716	15262.39	.	.V	.Q	.	.	.
15.417	6502.9062	15541.47	.	.V	.Q	.	.	.
15.500	6611.8379	15816.87	.	.V	.Q	.	.	.
15.583	6722.3345	16044.08	.	.V	.Q	.	.	.
15.667	6834.4072	16272.95	.	.V	.Q	.	.	.
15.750	6948.1006	16508.31	.	.V	.Q	.	.	.
15.833	7063.4478	16748.41	.	.V	.Q	.	.	.
15.917	7180.0693	16933.46	.	.V	.Q	.	.	.
16.000	7298.5303	17200.52	.	.V	.Q	.	.	.
16.083	7419.6328	17584.08	.	.V	.Q	.	.	.
16.167	7543.1875	17940.17	.	.V	.Q	.	.	.
16.250	7667.6138	18066.68	.	.V	.Q	.	.	.
16.333	7792.3628	18113.58	.	.V	.Q	.	.	.
16.417	7917.7656	18208.52	.	.V	.Q	.	.	.
16.500	8044.8657	18454.94	.	.V	.Q	.	.	.
16.583	8172.7026	18561.94	.	.V	.Q	.	.	.
16.667	8301.5332	18706.21	.	.V	.Q	.	.	.
16.750	8433.1172	19105.97	.	.V	.Q	.	.	.
16.833	8566.0400	19300.38	.	.V	.Q	.	.	.
16.917	8701.0752	19607.04	.	.V	.Q	.	.	.
17.000	8837.6709	19833.67	.	.V	.Q	.	.	.
17.083	8973.8203	19768.86	.	.V	.Q	.	.	.
17.167	9110.4746	19842.19	.	.V	.Q	.	.	.
17.250	9248.9951	20113.23	.	.V	.Q	.	.	.
17.333	9384.9473	19740.21	.	.V	.Q	.	.	.
17.417	9522.0176	19902.60	.	.V	.Q	.	.	.
17.500	9660.2793	20075.62	.	.V	.Q	.	.	.
17.583	9795.9229	19695.41	.	.V	.Q	.	.	.
17.667	9932.7803	19871.68	.	.V	.Q	.	.	.
17.750	10071.2051	20099.24	.	.V	.Q	.	.	.
17.833	10211.1719	20323.17	.	.V	.Q	.	.	.
17.917	10346.3701	19630.73	.	.V	.Q	.	.	.
18.000	10486.7480	20382.86	.	.V	.Q	.	.	.
18.083	10626.7207	20324.03	.	.V	.Q	.	.	.
18.167	10767.8096	20486.08	.	.V	.Q	.	.	.
18.250	10905.4102	19979.62	.	.V	.Q	.	.	.
18.333	11039.5146	19471.98	.	.V	.Q	.	.	.
18.417	11174.4297	19589.67	.	.V	.Q	.	.	.

18.500	11312.8672	20101.07	.	.	.	.	V	.Q.
18.583	11449.9629	19906.33	.	.	.	.	V	.Q.
18.667	11582.4268	19233.73	.	.	.	.	V	.Q.
18.750	11714.5410	19182.97	.	.	.	.	V	.Q.
18.833	11843.6982	18753.66	.	.	.	.	V	.Q.
18.917	11972.1543	18651.83	.	.	.	.	V	.Q.
19.000	12096.9219	18116.28	.	.	.	.	V	.Q.
19.083	12218.4707	17648.94	.	.	.	.	V	.Q.
19.167	12338.2021	17385.03	.	.	.	.	V	.Q.
19.250	12456.1309	17123.28	.	.	.	.	V	.Q.
19.333	12571.5557	16759.69	.	.	.	.	V	.Q.
19.417	12684.1260	16345.21	.	.	.	.	V	.Q.
19.500	12793.0225	15811.80	.	.	.	.	V	.Q.
19.583	12898.5645	15324.72	.	.	.	.	V	.Q.
19.667	13000.8994	14859.11	.	.	.	.	V	.Q.
19.750	13100.3652	14442.40	.	.	.	.	V	.Q.
19.833	13196.9355	14021.99	.	.	.	.	V	.Q.
19.917	13290.9785	13655.06	.	.	.	.	V	.Q.
20.000	13382.3145	13262.01	.	.	.	.	V	.Q.
20.083	13470.8018	12848.39	.	.	.	.	V	.Q.
20.167	13556.4160	12431.25	.	.	.	.	V	.Q.
20.250	13638.7676	11957.51	.	.	.	.	V	.Q.
20.333	13718.0625	11513.59	.	.	.	.	V	.Q.
20.417	13795.0303	11175.74	.	.	.	.	V	.Q.
20.500	13869.4658	10808.10	.	.	.	.	V	.Q.
20.583	13941.1553	10409.37	.	.	.	.	V	.Q.
20.667	14010.1885	10023.57	.	.	.	.	V	.Q.
20.750	14077.1533	9723.27	.	.	.	.	V	.Q.
20.833	14142.2930	9458.22	.	.	.	.	V	.Q.
20.917	14205.5947	9191.48	.	.	.	.	V	.Q.
21.000	14267.1035	8931.07	.	.	.	.	V	.Q.
21.083	14326.8848	8680.23	.	.	.	.	V	.Q.
21.167	14384.2012	8322.36	.	.	.	.	V	.Q.
21.250	14439.5967	8043.49	.	.	.	.	V	.Q.
21.333	14493.5703	7837.00	.	.	.	.	V	.Q.
21.417	14546.2158	7644.19	.	.	.	.	V	.Q.
21.500	14597.4980	7446.23	.	.	.	.	V	.Q.
21.583	14647.4873	7258.40	.	.	.	.	V	.Q.
21.667	14696.3291	7091.76	.	.	.	.	V	.Q.
21.750	14744.0762	6932.94	.	.	.	.	V	.Q.
21.833	14790.7588	6778.26	.	.	.	.	V	.Q.
21.917	14836.4102	6628.52	.	.	.	.	V	.Q.
22.000	14881.0439	6480.83	.	.	.	.	V	.Q.
22.083	14924.6943	6338.03	.	.	.	.	V	.Q.
22.167	14967.4600	6209.60	.	.	.	.	V	.Q.
22.250	15009.4199	6092.65	.	.	.	.	V	.Q.
22.333	15050.6533	5987.13	.	.	.	.	V	.Q.
22.417	15091.1807	5884.61	.	.	.	.	V	.Q.
22.500	15131.0186	5784.50	.	.	.	.	V	.Q.
22.583	15170.2090	5690.42	.	.	.	.	V	.Q.
22.667	15208.8184	5606.04	.	.	.	.	V	.Q.
22.750	15246.8604	5523.74	.	.	.	.	V	.Q.
22.833	15284.3936	5449.84	.	.	.	.	V	.Q.
22.917	15321.4268	5377.22	.	.	.	.	V	.Q.
23.000	15357.9658	5305.42	.	.	.	.	V	.Q.
23.083	15394.0195	5235.02	.	.	.	.	V	.Q.
23.167	15429.6787	5177.65	.	.	.	.	V	.Q.
23.250	15464.9756	5125.06	.	.	.	.	V	.Q.



23.333	15499.8955	5070.43	.	Q.	.	.	V	.
23.417	15534.4180	5012.71	.	Q.	.	.	V	.
23.500	15568.2139	4907.23	.	Q.	.	.	V	.
23.583	15601.6729	4858.27	.	Q.	.	.	V	.
23.667	15634.8027	4810.48	.	Q.	.	.	V	.
23.750	15667.6201	4765.09	.	Q.	.	.	V	.
23.833	15700.0918	4714.85	.	Q.	.	.	V	.
23.917	15732.2207	4665.16	.	Q.	.	.	V	.
24.000	15764.0117	4616.07	.	Q.	.	.	V	.
24.083	15795.4141	4559.66	.	Q.	.	.	V	.
24.167	15826.3770	4495.83	.	Q.	.	.	V	.
24.250	15856.9053	4432.71	.	Q.	.	.	V	.
24.333	15887.0039	4370.32	.	Q.	.	.	V	.
24.417	15916.6709	4307.65	.	Q.	.	.	V	.
24.500	15945.9014	4244.31	.	Q.	.	.	V	.
24.583	15974.6953	4180.83	.	Q.	.	.	V	.
24.667	16003.0410	4115.77	.	Q.	.	.	V	.
24.750	16030.8398	4036.33	.	Q.	.	.	V	.
24.833	16058.0420	3949.82	.	Q.	.	.	V	.
24.917	16084.5742	3852.43	.	Q.	.	.	V	.
25.000	16110.3711	3745.68	.	Q.	.	.	V	.
25.083	16135.4570	3642.41	.	Q.	.	.	V	.
25.167	16159.7852	3532.39	.	Q.	.	.	V	.
25.250	16183.2705	3410.10	.	Q.	.	.	V	.
25.333	16206.0361	3305.51	.	Q.	.	.	V	.
25.417	16228.0156	3191.39	.	Q.	.	.	V	.
25.500	16249.1387	3067.10	.	Q.	.	.	V	.
25.583	16269.5400	2962.34	.	Q.	.	.	V	.
25.667	16289.1748	2850.99	.	Q.	.	.	V	.
25.750	16307.9619	2727.94	.	Q.	.	.	V	.
25.833	16325.7920	2588.88	.	Q.	.	.	V	.
25.917	16342.8799	2481.23	.	Q.	.	.	V	.
26.000	16358.9795	2337.63	.	Q.	.	.	V	.
26.083	16374.0986	2195.32	.	Q.	.	.	V	.
26.167	16388.1602	2041.73	.	Q.	.	.	V	.
26.250	16401.2637	1902.63	.	Q.	.	.	V	.
26.333	16413.5918	1789.93	.	Q.	.	.	V	.
26.417	16425.1289	1675.20	.	Q.	.	.	V	.
26.500	16435.6992	1534.90	.	Q.	.	.	V	.
26.583	16445.3457	1400.79	.	Q.	.	.	V	.
26.667	16454.2637	1294.96	.	Q.	.	.	V	.
26.750	16462.4219	1184.43	.	Q.	.	.	V	.
26.833	16469.9199	1088.65	.	Q.	.	.	V	.
26.917	16476.7559	992.51	.	Q.	.	.	V	.
27.000	16483.0273	910.58	.	Q.	.	.	V	.
27.083	16488.8281	842.20	.	Q.	.	.	V	.
27.167	16494.1562	773.59	.	Q.	.	.	V	.
27.250	16499.0039	703.75	.	Q.	.	.	V	.
27.333	16503.4082	639.60	.	Q.	.	.	V	.
27.417	16507.4062	580.62	.	Q.	.	.	V	.
27.500	16511.0430	528.00	.	Q.	.	.	V	.
27.583	16514.3613	481.73	.	Q.	.	.	V	.
27.667	16517.4102	442.82	.	Q.	.	.	V	.
27.750	16520.2129	406.92	.	Q.	.	.	V	.
27.833	16522.7832	373.22	.	Q.	.	.	V	.
27.917	16525.1328	341.26	.	Q.	.	.	V	.
28.000	16527.2676	310.03	.	Q.	.	.	V	.
28.083	16529.2031	281.09	.	Q.	.	.	V	.

28.167	16530.9434	252.56	Q	.	.	.	V.	.
28.250	16532.5117	227.77	Q	.	.	.	V.	.
28.333	16533.9473	208.43	Q	.	.	.	V.	.
28.417	16535.2500	189.25	Q	.	.	.	V.	.
28.500	16536.4219	170.22	Q	.	.	.	V.	.
28.583	16537.4805	153.61	Q	.	.	.	V.	.
28.667	16538.4551	141.49	Q	.	.	.	V.	.
28.750	16539.3477	129.56	Q	.	.	.	V.	.
28.833	16540.1582	117.71	Q	.	.	.	V.	.
28.917	16540.8887	105.94	Q	.	.	.	V.	.
29.000	16541.5371	94.26	Q	.	.	.	V.	.
29.083	16542.1074	82.86	Q	.	.	.	V.	.
29.167	16542.6387	77.19	Q	.	.	.	V.	.
29.250	16543.1484	74.03	Q	.	.	.	V.	.
29.333	16543.6367	70.93	Q	.	.	.	V.	.
29.417	16544.1035	67.82	Q	.	.	.	V.	.
29.500	16544.5488	64.73	Q	.	.	.	V.	.
29.583	16544.9727	61.67	Q	.	.	.	V.	.
29.667	16545.3770	58.66	Q	.	.	.	V.	.
29.750	16545.7598	55.64	Q	.	.	.	V.	.
29.833	16546.1230	52.67	Q	.	.	.	V.	.
29.917	16546.4648	49.70	Q	.	.	.	V.	.
30.000	16546.7871	46.74	Q	.	.	.	V.	.
30.083	16547.0898	43.85	Q	.	.	.	V.	.
30.167	16547.3711	40.92	Q	.	.	.	V.	.
30.250	16547.6328	38.04	Q	.	.	.	V.	.
30.333	16547.8750	35.20	Q	.	.	.	V.	.
30.417	16548.0977	32.39	Q	.	.	.	V.	.
30.500	16548.3008	29.59	Q	.	.	.	V.	.
30.583	16548.4863	26.82	Q	.	.	.	V.	.
30.667	16548.6523	24.06	Q	.	.	.	V.	.
30.750	16548.7988	21.32	Q	.	.	.	V.	.
30.833	16548.9277	18.60	Q	.	.	.	V.	.
30.917	16549.0371	15.89	Q	.	.	.	V.	.
31.000	16549.1289	13.20	Q	.	.	.	V.	.
31.083	16549.2012	10.53	Q	.	.	.	V.	.
31.167	16549.2559	7.88	Q	.	.	.	V.	.
31.250	16549.2910	5.24	Q	.	.	.	V.	.
31.333	16549.3086	2.61	Q	.	.	.	V.	.
31.417	16549.3086	0.01	Q	.	.	.	V.	.

-----  
TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
(Note: 100% of Peak Flow Rate estimate assumed to have  
an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
=====	=====
0%	1885.0
10%	1425.0
20%	1140.0
30%	615.0
40%	475.0
50%	395.0
60%	340.0
70%	280.0
80%	220.0
90%	150.0

=====  
END OF FLOODSCx ROUTING ANALYSIS

\*\*\*\*\*

FLOOD ROUTING ANALYSIS  
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)  
(c) Copyright 1989-2010 Advanced Engineering Software (aes)  
Ver. 17.0 Release Date: 07/01/2010 License ID 1527

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*  
\* RMV PA-3 ROMP AMENDMENT 2022 - NODE 137 \*  
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*  
\* 100-YR EV AUG 2023 ROKAMOTO \*  
\*\*\*\*\*

FILE NAME: EV00137S.DAT  
TIME/DATE OF STUDY: 00:23 08/11/2023

\*\* INPUT SUMMARY \*\*

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 137.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS) ADDED TO STREAM #1<<<<

=====

WATERSHED AREA = 67799.000 ACRES; BASEFLOW = 0.000 CFS/SQUARE-MILE  
\*USER ENTERED "LAG" TIME = 2.493 HOURS  
VALLEY (DEVELOPED) S-GRAPH SELECTED  
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.283; LOW LOSS FRACTION = 0.393  
SPECIFIED PEAK RAINFALL DEPTHS (INCH):  
5-MINUTE = 0.48; 30-MINUTE = 0.93; 1-HOUR = 1.28  
3-HOUR = 2.34; 6-HOUR = 3.45; 24-HOUR = 5.99  
\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:  
5-MINUTE = 0.291; 30-MINUTE = 0.350; 1-HOUR = 0.394  
3-HOUR = 0.738; 6-HOUR = 0.886; 24-HOUR = 0.933

=====

```
+-----+
|
| * AES FLOODSCx PROGRAM RESULTS SUMMARY *
| INPUT FILENAME: [EV00137S.DAT ]
Page: 1 of |
+-----+-----+
|UPSTREAM DOWNSTREAM| | UPSTREAM DOWNSTREAM|
TIME (2) TO | MAX. STORAGE| |
| NODE # NODE # | HYDROLOGIC/HYDRAULIC PROCESS | PEAK (CFS) PEAK (CFS) |
PEAK (HR) | MODELED (AF) | FOOTNOTES |
+-----+-----+-----+
| 10100.00 137.00| Subarea (UH) Added to Stream #1| 0.0 22972.5|
18.083 | | |
+-----+-----+-----+
|Notes: 1 = BASIN MODEL VOLUME EXCEEDED; 2 = TIME IS AT END OF 5-MINUTE UNIT
INTERVAL |
| 3 = RUNOFF ESTIMATES DO NOT EXTEND PAST 2 DAYS AFTER THE PEAK DAY OF
THE DESIGN STORM |
+-----+-----+-----+
+-----+
```

END OF FLOODSCx ROUTING ANALYSIS

\*\*\*\*\*

FLOOD ROUTING ANALYSIS
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)
(c) Copyright 1989-2010 Advanced Engineering Software (aes)
Ver. 17.0 Release Date: 07/01/2010 License ID 1527

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*
\* RMV PA-3 ROMP AMENDMENT 2022 - NODE 138 \*
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*
\* 100-YR EV AUG 2023 ROKAMOTO \*

FILE NAME: EV00138S.DAT
TIME/DATE OF STUDY: 00:23 08/11/2023

\*\* INPUT SUMMARY \*\*

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 138.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS) ADDED TO STREAM #1<<<<

WATERSHED AREA = 69102.703 ACRES; BASEFLOW = 0.000 CFS/SQUARE-MILE
\*USER ENTERED "LAG" TIME = 2.578 HOURS
VALLEY (DEVELOPED) S-GRAPH SELECTED
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.282; LOW LOSS FRACTION = 0.394
SPECIFIED PEAK RAINFALL DEPTHS (INCH):
5-MINUTE = 0.48; 30-MINUTE = 0.93; 1-HOUR = 1.27
3-HOUR = 2.33; 6-HOUR = 3.43; 24-HOUR = 5.96
\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:
5-MINUTE = 0.287; 30-MINUTE = 0.348; 1-HOUR = 0.392
3-HOUR = 0.734; 6-HOUR = 0.885; 24-HOUR = 0.932

=====

-----+
| \* AES FLOODSCx PROGRAM RESULTS SUMMARY \*
| INPUT FILENAME: [EV00138S.DAT ]
Page: 1 of |
-----+-----+
|UPSTREAM DOWNSTREAM| | UPSTREAM DOWNSTREAM|
TIME (2) TO | MAX. STORAGE| |
| NODE # NODE # | HYDROLOGIC/HYDRAULIC PROCESS |PEAK (CFS) PEAK (CFS)|
PEAK (HR) | MODELED (AF)| FOOTNOTES |
-----+-----+
| 10100.00 138.00| Subarea (UH) Added to Stream #1| 0.0 23117.3|
18.167 | | |
-----+-----+
|Notes: 1 = BASIN MODEL VOLUME EXCEEDED; 2 = TIME IS AT END OF 5-MINUTE UNIT
INTERVAL |
| 3 = RUNOFF ESTIMATES DO NOT EXTEND PAST 2 DAYS AFTER THE PEAK DAY OF
THE DESIGN STORM |
-----+-----+

END OF FLOODSCx ROUTING ANALYSIS

\*\*\*\*\*

FLOOD ROUTING ANALYSIS  
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)  
(c) Copyright 1989-2010 Advanced Engineering Software (aes)  
Ver. 17.0 Release Date: 07/01/2010 License ID 1527

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*  
\* RMV PA-3 ROMP AMENDMENT 2022 - NODE 139 \*  
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*  
\* 100-YR EV AUG 2023 ROKAMOTO \*  
\*\*\*\*\*

FILE NAME: EV00139S.DAT  
TIME/DATE OF STUDY: 00:24 08/11/2023

\*\* INPUT SUMMARY \*\*

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 139.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS) ADDED TO STREAM #1<<<<

=====

WATERSHED AREA = 69530.500 ACRES; BASEFLOW = 0.000 CFS/SQUARE-MILE  
\*USER ENTERED "LAG" TIME = 2.625 HOURS  
VALLEY (DEVELOPED) S-GRAPH SELECTED  
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.282; LOW LOSS FRACTION = 0.394  
SPECIFIED PEAK RAINFALL DEPTHS (INCH):  
5-MINUTE = 0.48; 30-MINUTE = 0.93; 1-HOUR = 1.27  
3-HOUR = 2.33; 6-HOUR = 3.43; 24-HOUR = 5.95  
\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:  
5-MINUTE = 0.286; 30-MINUTE = 0.348; 1-HOUR = 0.391  
3-HOUR = 0.733; 6-HOUR = 0.885; 24-HOUR = 0.932

=====

-----+  
-----+  
| \* AES FLOODSCx PROGRAM RESULTS SUMMARY \*  
|  
| INPUT FILENAME: [EV00139S.DAT ]  
Page: 1 of |  
-----+-----+-----+  
-----+-----+-----+  
| UPSTREAM DOWNSTREAM| | UPSTREAM DOWNSTREAM|  
TIME (2) TO | MAX. STORAGE| |  
| NODE # NODE # | HYDROLOGIC/HYDRAULIC PROCESS | PEAK (CFS) PEAK (CFS) |  
PEAK (HR) | MODELED (AF) | FOOTNOTES |  
-----+-----+-----+  
-----+-----+-----+  
| 10100.00 139.00| Subarea (UH) Added to Stream #1| 0.0 22991.9|  
18.417 | | |  
-----+-----+-----+  
-----+-----+-----+  
| Notes: 1 = BASIN MODEL VOLUME EXCEEDED; 2 = TIME IS AT END OF 5-MINUTE UNIT  
INTERVAL |  
| 3 = RUNOFF ESTIMATES DO NOT EXTEND PAST 2 DAYS AFTER THE PEAK DAY OF  
THE DESIGN STORM |  
-----+-----+-----+  
-----+-----+-----+

END OF FLOODSCx ROUTING ANALYSIS

\*\*\*\*\*

FLOOD ROUTING ANALYSIS  
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)  
(c) Copyright 1989-2013 Advanced Engineering Software (aes)  
Ver. 20.0 Release Date: 06/01/2013 License ID 1237

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*  
\* RMV PA-3 BODR 2022 - NODE 133C \*  
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*  
\* 2-YR EV JULY 2022 ROKAMOTO \*  
\*\*\*\*\*

FILE NAME: EVO233CS.DAT  
TIME/DATE OF STUDY: 12:00 07/25/2022

\*\*\*\*\*

FLOW PROCESS FROM NODE 13010.00 TO NODE 133.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<

\*\*\*\*\*

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 61055.801 ACRES  
BASEFLOW = 0.000 CFS/SQUARE-MILE  
\*USER ENTERED "LAG" TIME = 5.932 HOURS  
VALLEY (DEVELOPED) S-GRAPH SELECTED  
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.569  
LOW LOSS FRACTION = 0.905  
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.15  
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.29  
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 0.41  
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 0.75  
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 1.09  
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 1.91

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:  
5-MINUTE FACTOR = 0.339  
30-MINUTE FACTOR = 0.390  
1-HOUR FACTOR = 0.430  
3-HOUR FACTOR = 0.780  
6-HOUR FACTOR = 0.902  
24-HOUR FACTOR = 0.942

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES  
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 1.405

UNIT HYDROGRAPH DETERMINATION

INTERVAL NUMBER	"S" GRAPH MEAN VALUES	UNIT HYDROGRAPH ORDINATES (CFS)
1	0.080	592.740
2	0.241	1185.500
3	0.401	1185.480
4	0.562	1185.490
5	0.722	1185.490
6	0.883	1185.495
7	1.044	1185.480
8	1.204	1185.490
9	1.365	1185.490
10	1.525	1185.494
11	1.686	1185.475
12	1.846	1185.510
13	2.019	1276.585
14	2.255	1739.372
15	2.499	1803.995
16	2.743	1804.014
17	2.988	1803.995
18	3.232	1804.014
19	3.476	1803.986
20	3.721	1804.025
21	3.978	1900.368
22	4.385	3005.768
23	4.835	3319.358
24	5.284	3319.400
25	5.734	3319.400
26	6.242	3751.134
27	6.833	4363.160
28	7.424	4367.572
29	8.037	4528.979
30	8.769	5401.670
31	9.518	5532.318
32	10.250	5405.283
33	10.953	5190.090
34	11.656	5186.485
35	12.358	5186.562
36	13.060	5186.562
37	13.768	5227.553
38	14.744	7206.474
39	15.841	8095.925
40	16.661	6059.170
41	17.411	5532.403
42	18.160	5532.403
43	18.909	5532.234
44	19.658	5533.529
45	20.509	6283.263
46	21.446	6914.933
47	22.460	7485.986
48	23.580	8272.930

49	24.505	6827.360
50	25.307	5927.311
51	26.110	5927.325
52	26.913	5927.635
53	27.719	5952.352
54	28.726	7433.848
55	29.837	8205.722
56	30.811	7192.608
57	31.760	7007.801
58	33.027	9349.758
59	34.340	9697.500
60	35.469	8335.630
61	36.395	6840.050
62	37.144	5533.360
63	37.957	5997.250
64	39.476	11222.008
65	40.832	10009.961
66	42.031	8856.334
67	43.340	9658.347
68	44.610	9381.826
69	45.841	9089.871
70	47.242	10340.422
71	48.821	11662.772
72	50.311	11000.640
73	51.345	7632.767
74	52.366	7543.561
75	53.388	7544.208
76	54.375	7288.223
77	55.312	6918.609
78	56.303	7320.925
79	57.422	8260.282
80	58.607	8746.594
81	59.881	9413.909
82	61.415	11324.650
83	62.757	9906.671
84	63.921	8593.897
85	64.928	7437.707
86	65.899	7169.525
87	66.827	6856.359
88	67.751	6821.769
89	68.832	7981.762
90	69.945	8214.088
91	70.808	6371.314
92	71.627	6053.079
93	72.499	6432.945
94	73.414	6758.843
95	74.310	6619.020
96	75.175	6387.990
97	76.004	6119.779
98	76.653	4790.387
99	77.278	4613.270
100	77.902	4609.439
101	78.526	4609.382
102	79.150	4609.439
103	79.775	4614.565
104	80.423	4781.373
105	81.084	4878.889
106	81.745	4881.480

107	82.364	4568.371
108	82.955	4368.156
109	83.546	4365.621
110	84.123	4257.796
111	84.660	3965.249
112	85.195	3949.869
113	85.730	3954.939
114	86.214	3572.538
115	86.647	3195.319
116	87.079	3187.601
117	87.511	3195.262
118	87.937	3138.815
119	88.287	2589.605
120	88.618	2443.303
121	88.948	2438.177
122	89.279	2443.303
123	89.609	2438.177
124	89.938	2427.868
125	90.242	2245.680
126	90.538	2184.106
127	90.834	2184.106
128	91.129	2181.515
129	91.425	2184.050
130	91.721	2184.106
131	92.013	2153.291
132	92.283	1994.145
133	92.550	1976.230
134	92.818	1976.174
135	93.086	1976.230
136	93.353	1976.174
137	93.621	1976.230
138	93.888	1971.047
139	94.104	1596.364
140	94.283	1319.196
141	94.461	1314.013
142	94.639	1319.196
143	94.817	1314.069
144	94.997	1324.266
145	95.174	1308.943
146	95.353	1324.322
147	95.531	1314.013
148	95.709	1314.069
149	95.888	1324.322
150	96.040	1118.981
151	96.151	821.251
152	96.261	811.054
153	96.372	816.125
154	96.482	816.125
155	96.592	810.998
156	96.702	816.181
157	96.812	810.998
158	96.922	810.998
159	97.033	816.181
160	97.143	816.125
161	97.253	810.998
162	97.364	816.181
163	97.473	810.998
164	97.583	810.998

165	97.694	816.181
166	97.804	816.125
167	97.914	810.998
168	98.002	651.908
169	98.032	220.720
170	98.059	195.032
171	98.085	195.088
172	98.112	195.032
173	98.138	195.032
174	98.164	195.088
175	98.189	184.779
176	98.217	205.341
177	98.244	195.032
178	98.269	189.905
179	98.296	195.088
180	98.322	195.032
181	98.349	195.032
182	98.374	189.961
183	98.401	195.032
184	98.427	195.032
185	98.454	200.214
186	98.480	189.905
187	98.507	200.214
188	98.533	189.905
189	98.559	195.032
190	98.586	195.088
191	98.612	195.032
192	98.639	195.088
193	98.664	184.779
194	98.691	205.285
195	98.718	195.088
196	98.744	195.032
197	98.769	184.779
198	98.797	205.341
199	98.822	184.779
200	98.848	195.032
201	98.876	205.341
202	98.901	184.779
203	98.928	195.088
204	98.954	195.032
205	98.982	205.341
206	99.007	184.779
207	99.032	184.779
208	99.057	184.779
209	99.082	184.779
210	99.107	184.779
211	99.132	184.779
212	99.157	184.779
213	99.182	184.779
214	99.207	184.779
215	99.232	184.779
216	99.257	184.779
217	99.282	184.779
218	99.307	184.779
219	99.332	184.779
220	99.357	184.779
221	99.382	184.779
222	99.407	184.779

223	99.432	184.779
224	99.457	184.779
225	99.482	184.779
226	99.507	184.779
227	99.532	184.779
228	99.557	184.779
229	99.582	184.779
230	99.608	184.779
231	99.633	184.779
232	99.658	184.779
233	99.683	184.779
234	99.708	184.779
235	99.733	184.779
236	99.758	184.779
237	99.783	184.779
238	99.808	184.779
239	99.833	184.779
240	99.858	184.779
241	99.883	184.779
242	99.908	184.779
243	99.933	184.779
244	99.958	184.779
245	99.983	184.779
246	100.000	126.359

-----  
TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 8310.4209  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 871.9139  
-----



=====

2 4 - 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 FIVE-MINUTE UNIT INTERVALS(CFS)

(Note: Time indicated is at END of Each Unit Intervals)

TIME(HRS)	VOLUME(AF)	Q(CFS)	0.	200.0	400.0	600.0	800.0
0.083	0.0011	0.15	Q	.	.	.	.
0.167	0.0043	0.46	Q	.	.	.	.
0.250	0.0096	0.77	Q	.	.	.	.
0.333	0.0171	1.09	Q	.	.	.	.
0.417	0.0267	1.40	Q	.	.	.	.
0.500	0.0385	1.71	Q	.	.	.	.
0.583	0.0525	2.03	Q	.	.	.	.
0.667	0.0686	2.34	Q	.	.	.	.
0.750	0.0869	2.66	Q	.	.	.	.
0.833	0.1074	2.97	Q	.	.	.	.
0.917	0.1301	3.29	Q	.	.	.	.
1.000	0.1549	3.61	Q	.	.	.	.
1.083	0.1822	3.96	Q	.	.	.	.
1.167	0.2126	4.42	Q	.	.	.	.
1.250	0.2464	4.91	Q	.	.	.	.
1.333	0.2835	5.39	Q	.	.	.	.
1.417	0.3240	5.88	Q	.	.	.	.
1.500	0.3679	6.37	Q	.	.	.	.
1.583	0.4151	6.86	Q	.	.	.	.
1.667	0.4657	7.35	Q	.	.	.	.
1.750	0.5199	7.87	Q	.	.	.	.
1.833	0.5796	8.67	Q	.	.	.	.
1.917	0.6455	9.57	Q	.	.	.	.
2.000	0.7176	10.46	Q	.	.	.	.
2.083	0.7958	11.36	Q	.	.	.	.
2.167	0.8810	12.37	Q	.	.	.	.
2.250	0.9743	13.55	Q	.	.	.	.
2.333	1.0758	14.73	Q	.	.	.	.
2.417	1.1857	15.96	Q	.	.	.	.
2.500	1.3056	17.42	Q	.	.	.	.
2.583	1.4359	18.91	Q	.	.	.	.
2.667	1.5763	20.38	VQ	.	.	.	.
2.750	1.7264	21.80	VQ	.	.	.	.
2.833	1.8863	23.22	VQ	.	.	.	.
2.917	2.0561	24.65	VQ	.	.	.	.
3.000	2.2357	26.08	VQ	.	.	.	.
3.083	2.4252	27.52	VQ	.	.	.	.
3.167	2.6283	29.49	VQ	.	.	.	.
3.250	2.8465	31.69	VQ	.	.	.	.
3.333	3.0764	33.37	VQ	.	.	.	.
3.417	3.3169	34.92	VQ	.	.	.	.
3.500	3.5681	36.47	VQ	.	.	.	.
3.583	3.8300	38.03	VQ	.	.	.	.
3.667	4.1027	39.60	VQ	.	.	.	.
3.750	4.3876	41.36	V Q	.	.	.	.
3.833	4.6858	43.30	V Q	.	.	.	.
3.917	4.9984	45.39	V Q	.	.	.	.

4.000	5.3269	47.69	V Q	.	.	.	.
4.083	5.6687	49.63	V Q	.	.	.	.
4.167	6.0222	51.33	V Q	.	.	.	.
4.250	6.3875	53.05	V Q	.	.	.	.
4.333	6.7647	54.77	V Q	.	.	.	.
4.417	7.1538	56.50	V Q	.	.	.	.
4.500	7.5575	58.62	V Q	.	.	.	.
4.583	7.9773	60.95	V Q	.	.	.	.
4.667	8.4114	63.03	V Q	.	.	.	.
4.750	8.8595	65.06	V Q	.	.	.	.
4.833	9.3259	67.72	V Q	.	.	.	.
4.917	9.8112	70.47	V Q	.	.	.	.
5.000	10.3131	72.88	V Q	.	.	.	.
5.083	10.8290	74.90	V Q	.	.	.	.
5.167	11.3565	76.60	V Q	.	.	.	.
5.250	11.8966	78.42	V Q	.	.	.	.
5.333	12.4586	81.61	V Q	.	.	.	.
5.417	13.0405	84.49	V Q	.	.	.	.
5.500	13.6403	87.09	V Q	.	.	.	.
5.583	14.2595	89.90	V Q	.	.	.	.
5.667	14.8976	92.65	V Q	.	.	.	.
5.750	15.5541	95.34	V Q	.	.	.	.
5.833	16.2316	98.36	V Q	.	.	.	.
5.917	16.9322	101.74	V Q	.	.	.	.
6.000	17.6550	104.95	V Q	.	.	.	.
6.083	18.3940	107.30	V Q	.	.	.	.
6.167	19.1491	109.64	V Q	.	.	.	.
6.250	19.9204	111.98	V Q	.	.	.	.
6.333	20.7074	114.27	V Q	.	.	.	.
6.417	21.5096	116.48	V Q	.	.	.	.
6.500	22.3277	118.79	.V Q	.	.	.	.
6.583	23.1635	121.36	.V Q	.	.	.	.
6.667	24.0180	124.07	.V Q	.	.	.	.
6.750	24.8924	126.96	.V Q	.	.	.	.
6.833	25.7902	130.37	.V Q	.	.	.	.
6.917	26.7090	133.41	.V Q	.	.	.	.
7.000	27.6466	136.13	.V Q	.	.	.	.
7.083	28.6008	138.55	.V Q	.	.	.	.
7.167	29.5713	140.92	.V Q	.	.	.	.
7.250	30.5576	143.21	.V Q	.	.	.	.
7.333	31.5598	145.51	.V Q	.	.	.	.
7.417	32.5799	148.12	.V Q	.	.	.	.
7.500	33.6185	150.81	.V Q	.	.	.	.
7.583	34.6724	153.02	.V Q	.	.	.	.
7.667	35.7410	155.16	.V Q	.	.	.	.
7.750	36.8251	157.41	.V Q	.	.	.	.
7.833	37.9253	159.76	.V Q	.	.	.	.
7.917	39.0416	162.08	.V Q	.	.	.	.
8.000	40.1735	164.35	.V Q	.	.	.	.
8.083	41.3207	166.57	.V Q	.	.	.	.
8.167	42.4808	168.45	.V Q	.	.	.	.
8.250	43.6536	170.29	. V Q	.	.	.	.
8.333	44.8391	172.15	. V Q	.	.	.	.
8.417	46.0375	174.01	. V Q	.	.	.	.
8.500	47.2489	175.88	. V Q	.	.	.	.
8.583	48.4732	177.77	. V Q	.	.	.	.
8.667	49.7109	179.71	. V Q	.	.	.	.
8.750	50.9622	181.69	. V Q	.	.	.	.

8.833	52.2272	183.68	. V	Q.	.	.	.
8.917	53.5054	185.60	. V	Q.	.	.	.
9.000	54.7967	187.49	. V	Q.	.	.	.
9.083	56.1009	189.38	. V	Q.	.	.	.
9.167	57.4181	191.26	. V	Q.	.	.	.
9.250	58.7477	193.07	. V	Q.	.	.	.
9.333	60.0900	194.89	. V	Q.	.	.	.
9.417	61.4448	196.72	. V	Q.	.	.	.
9.500	62.8117	198.47	. V	Q.	.	.	.
9.583	64.1900	200.13	. V	Q	.	.	.
9.667	65.5798	201.80	. V	Q	.	.	.
9.750	66.9812	203.49	. V	Q	.	.	.
9.833	68.3943	205.18	. V	Q	.	.	.
9.917	69.8181	206.73	. V	Q	.	.	.
10.000	71.2524	208.26	. V	Q	.	.	.
10.083	72.6973	209.80	. V	Q	.	.	.
10.167	74.1530	211.36	. V	Q	.	.	.
10.250	75.6194	212.93	. V	Q	.	.	.
10.333	77.0968	214.51	. V	Q	.	.	.
10.417	78.5848	216.06	. V	Q	.	.	.
10.500	80.0835	217.61	. V	Q	.	.	.
10.583	81.5929	219.17	. V	Q	.	.	.
10.667	83.1132	220.74	. V	.Q	.	.	.
10.750	84.6444	222.33	. V	.Q	.	.	.
10.833	86.1867	223.94	. V	.Q	.	.	.
10.917	87.7401	225.55	. V	.Q	.	.	.
11.000	89.3044	227.15	. V	.Q	.	.	.
11.083	90.8798	228.75	. V	.Q	.	.	.
11.167	92.4664	230.37	. V	.Q	.	.	.
11.250	94.0642	232.00	. V	.Q	.	.	.
11.333	95.6734	233.66	. V	.Q	.	.	.
11.417	97.2942	235.33	. V	.Q	.	.	.
11.500	98.9265	237.02	. V	.Q	.	.	.
11.583	100.5700	238.63	. V	.Q	.	.	.
11.667	102.2243	240.20	. V	.Q	.	.	.
11.750	103.8893	241.77	. V	.Q	.	.	.
11.833	105.5654	243.37	. V	.Q	.	.	.
11.917	107.2527	244.99	. V	.Q	.	.	.
12.000	108.9513	246.63	. V	.Q	.	.	.
12.083	110.6630	248.54	. V	.Q	.	.	.
12.167	112.3897	250.72	. V	.Q	.	.	.
12.250	114.1315	252.91	. V	.Q	.	.	.
12.333	115.8886	255.13	. V	.Q	.	.	.
12.417	117.6611	257.37	. V	.Q	.	.	.
12.500	119.4488	259.59	. V	.Q	.	.	.
12.583	121.2515	261.74	. V	.Q	.	.	.
12.667	123.0691	263.92	. V	.Q	.	.	.
12.750	124.9019	266.12	. V	.Q	.	.	.
12.833	126.7501	268.36	. V	.Q	.	.	.
12.917	128.6138	270.61	. V	.Q	.	.	.
13.000	130.4933	272.90	. V	.Q	.	.	.
13.083	132.3889	275.24	. V	.Q	.	.	.
13.167	134.3022	277.82	. V	.Q	.	.	.
13.250	136.2336	280.44	. V	.Q	.	.	.
13.333	138.1833	283.10	. V	.Q	.	.	.
13.417	140.1515	285.78	. V	.Q	.	.	.
13.500	142.1384	288.50	. V	.Q	.	.	.
13.583	144.1442	291.24	. V	.Q	.	.	.

13.667	146.1692	294.03	. V	. Q	.	.	.
13.750	148.2139	296.89	. V	. Q	.	.	.
13.833	150.2816	300.24	. V	. Q	.	.	.
13.917	152.3736	303.76	. V	. Q	.	.	.
14.000	154.4898	307.27	. V	. Q	.	.	.
14.083	156.6318	311.01	. V	. Q	.	.	.
14.167	158.8031	315.27	. V	. Q	.	.	.
14.250	161.0054	319.79	. V	. Q	.	.	.
14.333	163.2392	324.33	. V	. Q	.	.	.
14.417	165.5047	328.95	. V	. Q	.	.	.
14.500	167.8047	333.96	. V	. Q	.	.	.
14.583	170.1395	339.02	. V	. Q	.	.	.
14.667	172.5092	344.07	. V	. Q	.	.	.
14.750	174.9130	349.03	. V	. Q	.	.	.
14.833	177.3511	354.02	. V	. Q	.	.	.
14.917	179.8237	359.02	. V	. Q	.	.	.
15.000	182.3309	364.04	. V	. Q	.	.	.
15.083	184.8732	369.14	. V	. Q	.	.	.
15.167	187.4581	375.33	. V	. Q	.	.	.
15.250	190.0884	381.91	. V	. Q	.	.	.
15.333	192.7583	387.67	. V	. Q	.	.	.
15.417	195.4636	392.81	. V	. Q	.	.	.
15.500	198.2020	397.61	. V	. Q	.	.	.
15.583	200.9740	402.49	. V	. Q	.	.	.
15.667	203.7804	407.49	. V	. Q	.	.	.
15.750	206.6234	412.80	. V	. Q	.	.	.
15.833	209.5088	418.96	. V	. Q	.	.	.
15.917	212.4412	425.79	. V	. Q	.	.	.
16.000	215.4264	433.45	. V	. Q	.	.	.
16.083	218.4747	442.62	. V	. Q	.	.	.
16.167	221.5826	451.25	. V	. Q	.	.	.
16.250	224.7363	457.92	. V	. Q	.	.	.
16.333	227.9352	464.48	. V	. Q	.	.	.
16.417	231.1812	471.32	. V	. Q	.	.	.
16.500	234.4821	479.29	. V	. Q	.	.	.
16.583	237.8403	487.62	. V	. Q	.	.	.
16.667	241.2530	495.52	. V	. Q	.	.	.
16.750	244.7187	503.23	. V	. Q	.	.	.
16.833	248.2438	511.84	. V	. Q	.	.	.
16.917	251.8295	520.65	. V	. Q	.	.	.
17.000	255.4736	529.11	. V	. Q	.	.	.
17.083	259.1726	537.09	. V	. Q	.	.	.
17.167	262.9302	545.61	. V	. Q	.	.	.
17.250	266.7386	552.97	. V	. Q	.	.	.
17.333	270.6035	561.19	. V	. Q	.	.	.
17.417	274.5195	568.60	. V	. Q	.	.	.
17.500	278.4818	575.34	. V	. Q	.	.	.
17.583	282.4909	582.11	. V	. Q	.	.	.
17.667	286.5495	589.31	. V	. Q	.	.	.
17.750	290.6654	597.62	. V	. Q	.	.	.
17.833	294.8622	609.39	. V	. Q	.	.	.
17.917	299.1227	618.61	. V	. Q	.	.	.
18.000	303.4416	627.10	. V	. Q	.	.	.
18.083	307.8049	633.56	. V	. Q	.	.	.
18.167	312.2203	641.12	. V	. Q	.	.	.
18.250	316.6913	649.19	. V	. Q	.	.	.
18.333	321.2042	655.27	. V	. Q	.	.	.
18.417	325.7636	662.03	. V	. Q	.	.	.

18.500	330.3828	670.70	.	.	V	.	Q	.
18.583	335.0450	676.95	.	.	V	.	Q	.
18.667	339.7516	683.41	.	.	V	.	Q	.
18.750	344.5051	690.20	.	.	V	.	Q	.
18.833	349.3213	699.31	.	.	V	.	Q	.
18.917	354.1961	707.82	.	.	V	.	Q	.
19.000	359.1280	716.11	.	.	V	.	Q	.
19.083	364.1117	723.63	.	.	V	.	Q	.
19.167	369.1747	735.14	.	.	V	.	Q	.
19.250	374.2726	740.21	.	.	V	.	Q	.
19.333	379.3518	737.50	.	.	V	.	Q	.
19.417	384.4564	741.18	.	.	V	.	Q	.
19.500	389.6046	747.52	.	.	V	.	Q	.
19.583	394.7999	754.36	.	.	V	.	Q	.
19.667	400.0351	760.15	.	.	V	.	Q	.
19.750	405.3287	768.63	.	.	V	.	Q	.
19.833	410.6729	775.98	.	.	V	.	Q	.
19.917	416.0608	782.31	.	.	V	.	Q	.
20.000	421.4879	788.03	.	.	V	.	Q	.
20.083	426.8899	784.36	.	.	V	.	Q	.
20.167	432.2613	779.93	.	.	V	.	Q	.
20.250	437.6203	778.13	.	.	V	.	Q	.
20.333	442.9906	779.76	.	.	V	.	Q	.
20.417	448.3812	782.72	.	.	V	.	Q	.
20.500	453.8202	789.74	.	.	V	.	Q	.
20.583	459.2812	792.94	.	.	.V	.	Q	.
20.667	464.7059	787.66	.	.	.V	.	Q	.
20.750	470.1307	787.68	.	.	.V	.	Q	.
20.833	475.6259	797.91	.	.	.V	.	Q	.
20.917	481.1209	797.87	.	.	.V	.	Q	.
21.000	486.5511	788.45	.	.	.V	.	Q	.
21.083	491.9201	779.58	.	.	.V	.	Q	.
21.167	497.2540	774.49	.	.	.V	.	Q	.
21.250	502.6018	776.49	.	.	.V	.	Q	.
21.333	508.0636	793.06	.	.	.V	.	Q	.
21.417	513.4924	788.26	.	.	.V	.	Q	.
21.500	518.8820	782.56	.	.	.V	.	Q	.
21.583	524.2606	780.97	.	.	.V	.	Q	.
21.667	529.6296	779.59	.	.	.V	.	Q	.
21.750	534.9986	779.57	.	.	.V	.	Q	.
21.833	540.3850	782.11	.	.	.V	.	Q	.
21.917	545.7672	781.49	.	.	.V	.	Q	.
22.000	551.0834	771.91	.	.	.V	.	Q	.
22.083	556.2819	754.81	.	.	.V	.	Q	.
22.167	561.4459	749.82	.	.	.V	.	Q	.
22.250	566.5884	746.69	.	.	.V	.	Q	.
22.333	571.6934	741.25	.	.	.V	.	Q	.
22.417	576.7573	735.27	.	.	.V	.	Q	.
22.500	581.7990	732.05	.	.	.V	.	Q	.
22.583	586.8289	730.35	.	.	.V	.	Q	.
22.667	591.8428	728.02	.	.	.V	.	Q	.
22.750	596.8383	725.35	.	.	.V	.	Q	.
22.833	601.8184	723.12	.	.	.V	.	Q	.
22.917	606.7004	708.86	.	.	.V	.	Q	.
23.000	611.4951	696.20	.	.	.V	.	Q	.
23.083	616.2233	686.54	.	.	.V	.	Q	.
23.167	620.9205	682.03	.	.	.V	.	Q	.
23.250	625.5869	677.55	.	.	.V	.	Q	.

23.333	630.2165	672.23	.	.	.	.	V	.	Q	.
23.417	634.8322	670.20	.	.	.	.	V	.	Q	.
23.500	639.4073	664.30	.	.	.	.	V	.	Q	.
23.583	643.8867	650.41	.	.	.	.	V	.	Q	.
23.667	648.3095	642.19	.	.	.	.	V	.	Q	.
23.750	652.6950	636.78	.	.	.	.	V	.	Q	.
23.833	657.0322	629.77	.	.	.	.	VQ	.	.	.
23.917	661.2985	619.47	.	.	.	.	Q	.	.	.
24.000	665.4910	608.74	.	.	.	.	Q	.	.	.
24.083	669.6183	599.29	.	.	.	.	QV	.	.	.
24.167	673.6602	586.89	.	.	.	.	QV	.	.	.
24.250	677.6502	579.35	.	.	.	.	Q	.	.V	.
24.333	681.5941	572.65	.	.	.	.	Q	.	.V	.
24.417	685.4883	565.45	.	.	.	.	Q	.	.V	.
24.500	689.3253	557.14	.	.	.	.	Q	.	.V	.
24.583	693.1096	549.47	.	.	.	.	Q	.	.V	.
24.667	696.8442	542.27	.	.	.	.	Q	.	.V	.
24.750	700.5226	534.11	.	.	.	.	Q	.	.V	.
24.833	704.1357	524.63	.	.	.	.	Q	.	.V	.
24.917	707.6821	514.92	.	.	.	.	Q	.	.V	.
25.000	711.1691	506.32	.	.	.	.	Q	.	.V	.
25.083	714.6051	498.91	.	.	.	.	Q	.	.V	.
25.167	717.9926	491.86	.	.	.	.	Q	.	.V	.
25.250	721.3314	484.79	.	.	.	.	Q	.	.V	.
25.333	724.6277	478.63	.	.	.	.	Q	.	.V	.
25.417	727.8766	471.74	.	.	.	.	Q	.	.V	.
25.500	731.0676	463.34	.	.	.	.	Q	.	.V	.
25.583	734.2060	455.69	.	.	.	.	Q	.	.V	.
25.667	737.3005	449.33	.	.	.	.	Q	.	.V	.
25.750	740.3498	442.75	.	.	.	.	Q	.	.V	.
25.833	743.3464	435.11	.	.	.	.	Q	.	.V	.
25.917	746.2788	425.79	.	.	.	.	Q	.	.V	.
26.000	749.1591	418.22	.	.	.	.	Q	.	.V	.
26.083	751.9910	411.18	.	.	.	.	Q	.	.V	.
26.167	754.7783	404.72	.	.	.	.	Q	.	.V	.
26.250	757.5189	397.93	.	.	.	.	Q	.	.V	.
26.333	760.2122	391.07	.	.	.	.	Q	.	.V	.
26.417	762.8542	383.61	.	.	.	.	Q	.	.V	.
26.500	765.4473	376.52	.	.	.	.	Q	.	.V	.
26.583	767.9933	369.69	.	.	.	.	Q	.	.V	.
26.667	770.4927	362.91	.	.	.	.	Q	.	.V	.
26.750	772.9451	356.08	.	.	.	.	Q	.	.V	.
26.833	775.3500	349.19	.	.	.	.	Q	.	.V	.
26.917	777.7110	342.82	.	.	.	.	Q	.	.V	.
27.000	780.0282	336.45	.	.	.	.	Q	.	.V	.
27.083	782.3053	330.64	.	.	.	.	Q	.	.V	.
27.167	784.5396	324.43	.	.	.	.	Q	.	.V	.
27.250	786.7311	318.21	.	.	.	.	Q	.	.V	.
27.333	788.8832	312.48	.	.	.	.	Q	.	.V	.
27.417	790.9966	306.85	.	.	.	.	Q	.	.V	.
27.500	793.0706	301.15	.	.	.	.	Q	.	.V	.
27.583	795.0980	294.38	.	.	.	.	Q	.	.V	.
27.667	797.0829	288.20	.	.	.	.	Q	.	.V	.
27.750	799.0314	282.92	.	.	.	.	Q	.	.V	.
27.833	800.9443	277.76	.	.	.	.	Q	.	.V	.
27.917	802.8224	272.70	.	.	.	.	Q	.	.V	.
28.000	804.6639	267.38	.	.	.	.	Q	.	.V	.
28.083	806.4692	262.12	.	.	.	.	Q	.	.V	.

28.167	808.2408	257.24	.	.	Q	.	.	V	.
28.250	809.9785	252.32	.	.	Q	.	.	V	.
28.333	811.6822	247.37	.	.	Q	.	.	V	.
28.417	813.3512	242.34	.	.	Q	.	.	V	.
28.500	814.9777	236.17	.	.	Q	.	.	V	.
28.583	816.5608	229.86	.	.	Q	.	.	V	.
28.667	818.1112	225.12	.	.	Q	.	.	V	.
28.750	819.6304	220.58	.	.	Q	.	.	V	.
28.833	821.1136	215.37	.	.	Q	.	.	V	.
28.917	822.5594	209.94	.	.	Q	.	.	V	.
29.000	823.9711	204.98	.	.	Q	.	.	V	.
29.083	825.3515	200.43	.	.	Q	.	.	V	.
29.167	826.7031	196.26	.	.	Q	.	.	V	.
29.250	828.0256	192.02	.	.	Q	.	.	V	.
29.333	829.3102	186.53	.	.	Q	.	.	V	.
29.417	830.5613	181.66	.	.	Q	.	.	V	.
29.500	831.7820	177.24	.	.	Q	.	.	V	.
29.583	832.9728	172.89	.	.	Q	.	.	V	.
29.667	834.1353	168.80	.	.	Q	.	.	V	.
29.750	835.2708	164.88	.	.	Q	.	.	V	.
29.833	836.3766	160.56	.	.	Q	.	.	V	.
29.917	837.4488	155.68	.	.	Q	.	.	V	.
30.000	838.4841	150.32	.	.	Q	.	.	V	.
30.083	839.4836	145.13	.	.	Q	.	.	V	.
30.167	840.4586	141.57	.	.	Q	.	.	V	.
30.250	841.4102	138.16	.	.	Q	.	.	V	.
30.333	842.3386	134.81	.	.	Q	.	.	V	.
30.417	843.2430	131.32	.	.	Q	.	.	V	.
30.500	844.1232	127.81	.	.	Q	.	.	V	.
30.583	844.9781	124.15	.	.	Q	.	.	V	.
30.667	845.8079	120.48	.	.	Q	.	.	V	.
30.750	846.6105	116.54	.	.	Q	.	.	V	.
30.833	847.3828	112.13	.	.	Q	.	.	V	.
30.917	848.1276	108.15	.	.	Q	.	.	V	.
31.000	848.8480	104.61	.	.	Q	.	.	V	.
31.083	849.5477	101.61	.	.	Q	.	.	V	.
31.167	850.2275	98.70	.	.	Q	.	.	V	.
31.250	850.8882	95.94	.	.	Q	.	.	V	.
31.333	851.5300	93.19	.	.	Q	.	.	V	.
31.417	852.1512	90.20	.	.	Q	.	.	V	.
31.500	852.7512	87.11	.	.	Q	.	.	V	.
31.583	853.3338	84.60	.	.	Q	.	.	V	.
31.667	853.8994	82.13	.	.	Q	.	.	V	.
31.750	854.4479	79.65	.	.	Q	.	.	V	.
31.833	854.9786	77.06	.	.	Q	.	.	V	.
31.917	855.4921	74.55	.	.	Q	.	.	V	.
32.000	855.9892	72.18	.	.	Q	.	.	V	.
32.083	856.4716	70.04	.	.	Q	.	.	V	.
32.167	856.9427	68.40	.	.	Q	.	.	V	.
32.250	857.4020	66.70	.	.	Q	.	.	V	.
32.333	857.8500	65.05	.	.	Q	.	.	V	.
32.417	858.2865	63.38	.	.	Q	.	.	V	.
32.500	858.7123	61.82	.	.	Q	.	.	V	.
32.583	859.1261	60.09	.	.	Q	.	.	V	.
32.667	859.5285	58.43	.	.	Q	.	.	V	.
32.750	859.9193	56.73	.	.	Q	.	.	V	.
32.833	860.2979	54.98	.	.	Q	.	.	V	.
32.917	860.6657	53.41	.	.	Q	.	.	V	.

33.000	861.0229	51.87	.	Q	.	.	.	V	.
33.083	861.3699	50.38	.	Q	.	.	.	V	.
33.167	861.7060	48.80	.	Q	.	.	.	V	.
33.250	862.0324	47.40	.	Q	.	.	.	V	.
33.333	862.3492	46.01	.	Q	.	.	.	V	.
33.417	862.6566	44.63	.	Q	.	.	.	V	.
33.500	862.9552	43.35	.	Q	.	.	.	V	.
33.583	863.2457	42.19	.	Q	.	.	.	V	.
33.667	863.5283	41.02	.	Q	.	.	.	V	.
33.750	863.8028	39.86	.	Q	.	.	.	V	.
33.833	864.0695	38.73	.	Q	.	.	.	V	.
33.917	864.3295	37.74	.	Q	.	.	.	V	.
34.000	864.5829	36.80	.	Q	.	.	.	V	.
34.083	864.8298	35.86	.	Q	.	.	.	V	.
34.167	865.0704	34.92	.	Q	.	.	.	V	.
34.250	865.3045	34.00	.	Q	.	.	.	V	.
34.333	865.5323	33.08	.	Q	.	.	.	V	.
34.417	865.7543	32.22	.	Q	.	.	.	V	.
34.500	865.9701	31.34	.	Q	.	.	.	V	.
34.583	866.1795	30.40	.	Q	.	.	.	V	.
34.667	866.3825	29.47	.	Q	.	.	.	V	.
34.750	866.5791	28.54	.	Q	.	.	.	V	.
34.833	866.7694	27.63	.	Q	.	.	.	V	.
34.917	866.9535	26.72	.	Q	.	.	.	V	.
35.000	867.1317	25.87	.	Q	.	.	.	V	.
35.083	867.3040	25.02	.	Q	.	.	.	V	.
35.167	867.4705	24.18	.	Q	.	.	.	V	.
35.250	867.6313	23.35	.	Q	.	.	.	V	.
35.333	867.7864	22.52	.	Q	.	.	.	V	.
35.417	867.9359	21.71	.	Q	.	.	.	V	.
35.500	868.0798	20.89	.	Q	.	.	.	V	.
35.583	868.2189	20.19	.	Q	.	.	.	V	.
35.667	868.3536	19.56	.	Q	.	.	.	V	.
35.750	868.4840	18.93	.	Q	.	.	.	V	.
35.833	868.6104	18.35	.	Q	.	.	.	V	.
35.917	868.7334	17.86	.	Q	.	.	.	V	.
36.000	868.8530	17.36	.	Q	.	.	.	V	.

-----  
TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
(Note: 100% of Peak Flow Rate estimate assumed to have  
an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
0%	2165.0
10%	1585.0
20%	1325.0
30%	1010.0
40%	780.0
50%	640.0
60%	530.0
70%	430.0
80%	335.0
90%	230.0

=====

END OF FLOODSCx ROUTING ANALYSIS



\*\*\*\*\*

FLOOD ROUTING ANALYSIS  
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)  
(c) Copyright 1989-2013 Advanced Engineering Software (aes)  
Ver. 20.0 Release Date: 06/01/2013 License ID 1237

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*  
\* RMV PA-3 ROMP AMENDMENT 2022 - NODE 133T \*  
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*  
\* 2-YR EV OCT 2022 ROKAMOTO \*  
\*\*\*\*\*

FILE NAME: EVO233TS.DAT  
TIME/DATE OF STUDY: 13:44 10/25/2022

\*\*\*\*\*

FLOW PROCESS FROM NODE 13010.00 TO NODE 133.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<

=====

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 6638.200 ACRES  
BASEFLOW = 0.000 CFS/SQUARE-MILE  
\*USER ENTERED "LAG" TIME = 1.853 HOURS  
VALLEY (DEVELOPED) S-GRAPH SELECTED  
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.478  
LOW LOSS FRACTION = 0.810  
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.13  
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.28  
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 0.37  
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 0.62  
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 0.85  
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 1.44

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:  
5-MINUTE FACTOR = 0.744  
30-MINUTE FACTOR = 0.744  
1-HOUR FACTOR = 0.744  
3-HOUR FACTOR = 0.959  
6-HOUR FACTOR = 0.978  
24-HOUR FACTOR = 0.987

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES  
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 4.497

=====

UNIT HYDROGRAPH DETERMINATION

-----

INTERVAL NUMBER	"S" GRAPH MEAN VALUES	UNIT HYDROGRAPH ORDINATES (CFS)
1	0.257	206.308
2	0.771	412.617
3	1.285	412.616
4	1.800	413.888
5	2.476	542.385
6	3.258	627.894
7	4.140	708.122
8	5.519	1107.070
9	7.256	1394.265
10	9.447	1758.960
11	11.735	1837.109
12	14.148	1936.750
13	17.046	2326.428
14	19.468	1944.901
15	22.414	2364.829
16	25.404	2400.251
17	28.097	2162.063
18	31.353	2613.814
19	35.102	3009.855
20	38.128	2429.060
21	42.229	3292.887
22	46.348	3306.181
23	50.801	3575.020
24	54.094	2643.950
25	57.370	2630.025
26	61.528	3338.172
27	65.245	2983.458
28	68.363	2503.089
29	71.423	2456.944
30	74.244	2264.351
31	76.733	1998.891
32	78.739	1609.835
33	80.782	1640.257
34	82.802	1621.778
35	84.628	1466.272
36	86.262	1311.734
37	87.650	1114.309
38	88.799	922.023
39	89.850	843.489
40	90.819	778.197
41	91.763	757.722
42	92.644	707.859
43	93.501	687.726
44	94.237	591.148
45	94.810	459.352
46	95.381	458.310
47	95.933	443.494
48	96.323	312.917

49	96.676	283.284
50	97.028	283.284
51	97.381	282.935
52	97.734	283.284
53	98.012	223.315
54	98.105	74.785
55	98.189	67.638
56	98.274	67.644
57	98.358	67.987
58	98.443	67.638
59	98.527	67.638
60	98.611	67.644
61	98.696	67.987
62	98.780	67.638
63	98.864	67.638
64	98.948	67.644
65	99.033	67.638
66	99.117	67.638
67	99.201	67.638
68	99.285	67.638
69	99.370	67.638
70	99.454	67.638
71	99.538	67.638
72	99.622	67.638
73	99.707	67.638
74	99.791	67.638
75	99.875	67.638
76	99.959	67.638
77	100.000	32.523

-----  
TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 615.2339  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 170.5114  
-----

=====  
2 4 - 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 FIVE-MINUTE UNIT INTERVALS (CFS)  
(Note: Time indicated is at END of Each Unit Intervals)

TIME (HRS)	VOLUME (AF)	Q (CFS)	0.	125.0	250.0	375.0	500.0
0.083	0.0005	0.07	Q	.	.	.	.
0.167	0.0021	0.22	Q	.	.	.	.
0.250	0.0046	0.37	Q	.	.	.	.
0.333	0.0083	0.53	Q	.	.	.	.
0.417	0.0132	0.72	Q	.	.	.	.
0.500	0.0198	0.95	Q	.	.	.	.
0.583	0.0282	1.21	Q	.	.	.	.
0.667	0.0393	1.62	Q	.	.	.	.
0.750	0.0540	2.13	Q	.	.	.	.
0.833	0.0731	2.77	Q	.	.	.	.
0.917	0.0968	3.45	Q	.	.	.	.
1.000	0.1255	4.16	Q	.	.	.	.
1.083	0.1600	5.02	Q	.	.	.	.
1.167	0.1995	5.74	Q	.	.	.	.
1.250	0.2451	6.61	Q	.	.	.	.
1.333	0.2968	7.50	Q	.	.	.	.
1.417	0.3540	8.31	Q	.	.	.	.
1.500	0.4180	9.29	Q	.	.	.	.
1.583	0.4897	10.41	Q	.	.	.	.
1.667	0.5676	11.32	Q	.	.	.	.
1.750	0.6541	12.55	VQ	.	.	.	.
1.833	0.7491	13.79	VQ	.	.	.	.
1.917	0.8533	15.13	VQ	.	.	.	.
2.000	0.9645	16.14	VQ	.	.	.	.
2.083	1.0826	17.15	VQ	.	.	.	.
2.167	1.2094	18.42	VQ	.	.	.	.
2.250	1.3441	19.56	VQ	.	.	.	.
2.333	1.4855	20.53	VQ	.	.	.	.
2.417	1.6335	21.49	VQ	.	.	.	.
2.500	1.7877	22.38	VQ	.	.	.	.
2.583	1.9473	23.18	VQ	.	.	.	.
2.667	2.1116	23.85	VQ	.	.	.	.
2.750	2.2805	24.52	VQ	.	.	.	.
2.833	2.4540	25.19	V Q	.	.	.	.
2.917	2.6318	25.81	V Q	.	.	.	.
3.000	2.8134	26.38	V Q	.	.	.	.
3.083	2.9985	26.87	V Q	.	.	.	.
3.167	3.1866	27.30	V Q	.	.	.	.
3.250	3.3774	27.70	V Q	.	.	.	.
3.333	3.5708	28.08	V Q	.	.	.	.
3.417	3.7668	28.46	V Q	.	.	.	.
3.500	3.9652	28.82	V Q	.	.	.	.
3.583	4.1661	29.17	V Q	.	.	.	.
3.667	4.3692	29.49	.VQ	.	.	.	.
3.750	4.5742	29.76	.VQ	.	.	.	.
3.833	4.7811	30.04	.VQ	.	.	.	.
3.917	4.9898	30.31	.VQ	.	.	.	.

4.000	5.2001	30.53	.VQ	.	.	.	.
4.083	5.4119	30.75	.VQ	.	.	.	.
4.167	5.6252	30.97	.VQ	.	.	.	.
4.250	5.8399	31.19	.VQ	.	.	.	.
4.333	6.0562	31.41	.VQ	.	.	.	.
4.417	6.2739	31.61	.VQ	.	.	.	.
4.500	6.4926	31.75	.VQ	.	.	.	.
4.583	6.7123	31.90	.VQ	.	.	.	.
4.667	6.9330	32.05	.VQ	.	.	.	.
4.750	7.1548	32.20	.VQ	.	.	.	.
4.833	7.3775	32.35	.VQ	.	.	.	.
4.917	7.6014	32.50	.VQ	.	.	.	.
5.000	7.8263	32.65	.VQ	.	.	.	.
5.083	8.0522	32.81	.VQ	.	.	.	.
5.167	8.2792	32.96	.VQ	.	.	.	.
5.250	8.5073	33.12	.VQ	.	.	.	.
5.333	8.7366	33.28	.Q	.	.	.	.
5.417	8.9669	33.44	.Q	.	.	.	.
5.500	9.1983	33.60	.Q	.	.	.	.
5.583	9.4309	33.77	.Q	.	.	.	.
5.667	9.6646	33.93	.Q	.	.	.	.
5.750	9.8994	34.10	.Q	.	.	.	.
5.833	10.1354	34.27	.Q	.	.	.	.
5.917	10.3726	34.44	.Q	.	.	.	.
6.000	10.6110	34.61	.Q	.	.	.	.
6.083	10.8506	34.79	.Q	.	.	.	.
6.167	11.0913	34.96	.Q	.	.	.	.
6.250	11.3334	35.14	.Q	.	.	.	.
6.333	11.5766	35.32	.Q	.	.	.	.
6.417	11.8210	35.49	.Q	.	.	.	.
6.500	12.0665	35.65	.Q	.	.	.	.
6.583	12.3131	35.81	.Q	.	.	.	.
6.667	12.5608	35.97	.Q	.	.	.	.
6.750	12.8097	36.13	.QV	.	.	.	.
6.833	13.0597	36.30	.QV	.	.	.	.
6.917	13.3109	36.47	.QV	.	.	.	.
7.000	13.5632	36.64	.QV	.	.	.	.
7.083	13.8167	36.81	.QV	.	.	.	.
7.167	14.0715	36.99	.QV	.	.	.	.
7.250	14.3274	37.17	.QV	.	.	.	.
7.333	14.5846	37.34	.QV	.	.	.	.
7.417	14.8431	37.53	.Q	.	.	.	.
7.500	15.1028	37.71	.Q	.	.	.	.
7.583	15.3638	37.90	.Q	.	.	.	.
7.667	15.6261	38.09	.Q	.	.	.	.
7.750	15.8897	38.28	.Q	.	.	.	.
7.833	16.1547	38.47	.Q	.	.	.	.
7.917	16.4210	38.67	.Q	.	.	.	.
8.000	16.6887	38.87	.Q	.	.	.	.
8.083	16.9578	39.07	.Q	.	.	.	.
8.167	17.2283	39.28	.QV	.	.	.	.
8.250	17.5002	39.49	.QV	.	.	.	.
8.333	17.7736	39.69	.QV	.	.	.	.
8.417	18.0485	39.91	.QV	.	.	.	.
8.500	18.3248	40.13	.QV	.	.	.	.
8.583	18.6027	40.35	.QV	.	.	.	.
8.667	18.8821	40.57	.QV	.	.	.	.
8.750	19.1631	40.80	.QV	.	.	.	.

8.833	19.4456	41.03	.QV	.	.	.	.
8.917	19.7298	41.26	.QV	.	.	.	.
9.000	20.0156	41.50	.QV	.	.	.	.
9.083	20.3030	41.74	.QV	.	.	.	.
9.167	20.5922	41.98	.QV	.	.	.	.
9.250	20.8830	42.23	.QV	.	.	.	.
9.333	21.1756	42.48	.QV	.	.	.	.
9.417	21.4700	42.74	.Q V	.	.	.	.
9.500	21.7661	43.00	.Q V	.	.	.	.
9.583	22.0641	43.27	.Q V	.	.	.	.
9.667	22.3639	43.53	.Q V	.	.	.	.
9.750	22.6656	43.81	.Q V	.	.	.	.
9.833	22.9693	44.09	.Q V	.	.	.	.
9.917	23.2749	44.37	.Q V	.	.	.	.
10.000	23.5824	44.66	.Q V	.	.	.	.
10.083	23.8920	44.95	.Q V	.	.	.	.
10.167	24.2036	45.25	.Q V	.	.	.	.
10.250	24.5174	45.55	.Q V	.	.	.	.
10.333	24.8332	45.86	.Q V	.	.	.	.
10.417	25.1513	46.18	.Q V	.	.	.	.
10.500	25.4715	46.50	.Q V	.	.	.	.
10.583	25.7940	46.83	.Q V	.	.	.	.
10.667	26.1188	47.16	.Q V	.	.	.	.
10.750	26.4459	47.50	.Q V	.	.	.	.
10.833	26.7754	47.84	.Q V	.	.	.	.
10.917	27.1073	48.20	.Q V	.	.	.	.
11.000	27.4417	48.55	.Q V	.	.	.	.
11.083	27.7786	48.92	.Q V	.	.	.	.
11.167	28.1181	49.30	.Q V	.	.	.	.
11.250	28.4603	49.68	.Q V	.	.	.	.
11.333	28.8051	50.07	.Q V	.	.	.	.
11.417	29.1527	50.47	.Q V	.	.	.	.
11.500	29.5031	50.87	.Q V	.	.	.	.
11.583	29.8563	51.29	.Q V	.	.	.	.
11.667	30.2125	51.71	.Q V	.	.	.	.
11.750	30.5716	52.15	.Q V	.	.	.	.
11.833	30.9339	52.59	.Q V	.	.	.	.
11.917	31.2992	53.05	.Q V	.	.	.	.
12.000	31.6678	53.52	.Q V	.	.	.	.
12.083	32.0400	54.04	.Q V	.	.	.	.
12.167	32.4161	54.62	.Q V	.	.	.	.
12.250	32.7964	55.21	.Q V	.	.	.	.
12.333	33.1807	55.81	.Q V	.	.	.	.
12.417	33.5695	56.46	.Q V	.	.	.	.
12.500	33.9630	57.13	.Q V	.	.	.	.
12.583	34.3613	57.84	.Q V	.	.	.	.
12.667	34.7652	58.65	.Q V	.	.	.	.
12.750	35.1753	59.54	.Q V	.	.	.	.
12.833	35.5921	60.52	.Q V	.	.	.	.
12.917	36.0159	61.54	.Q V	.	.	.	.
13.000	36.4470	62.59	.Q V	.	.	.	.
13.083	36.8861	63.76	.Q V	.	.	.	.
13.167	37.3328	64.86	.Q V	.	.	.	.
13.250	37.7878	66.08	.Q V	.	.	.	.
13.333	38.2514	67.31	.Q V	.	.	.	.
13.417	38.7235	68.54	.Q V	.	.	.	.
13.500	39.2047	69.87	.Q V	.	.	.	.
13.583	39.6959	71.33	.Q V	.	.	.	.



13.667	40.1965	72.68	.	Q	V.	.	.	.
13.750	40.7079	74.26	.	Q	V.	.	.	.
13.833	41.2303	75.86	.	Q	V.	.	.	.
13.917	41.7645	77.56	.	Q	V.	.	.	.
14.000	42.3092	79.09	.	Q	V.	.	.	.
14.083	42.8657	80.80	.	Q	V	.	.	.
14.167	43.4362	82.84	.	Q	V	.	.	.
14.250	44.0205	84.85	.	Q	V	.	.	.
14.333	44.6182	86.79	.	Q	V	.	.	.
14.417	45.2302	88.86	.	Q	V	.	.	.
14.500	45.8569	90.99	.	Q	V	.	.	.
14.583	46.4986	93.18	.	Q	V	.	.	.
14.667	47.1570	95.59	.	Q	.V	.	.	.
14.750	47.8338	98.28	.	Q	.V	.	.	.
14.833	48.5312	101.26	.	Q	.V	.	.	.
14.917	49.2497	104.33	.	Q	.V	.	.	.
15.000	49.9900	107.49	.	Q	.V	.	.	.
15.083	50.7542	110.96	.	Q	.V	.	.	.
15.167	51.5406	114.18	.	Q	.V	.	.	.
15.250	52.3518	117.79	.	Q	.V	.	.	.
15.333	53.1884	121.47	.	Q	.V	.	.	.
15.417	54.0482	124.85	.	Q	.V	.	.	.
15.500	54.9322	128.36	.	Q	V	.	.	.
15.583	55.8434	132.31	.	Q	V	.	.	.
15.667	56.7800	135.98	.	Q	V	.	.	.
15.750	57.7466	140.35	.	.Q	V	.	.	.
15.833	58.7445	144.91	.	.Q	V	.	.	.
15.917	59.7780	150.06	.	.Q	V	.	.	.
16.000	60.8440	154.78	.	.Q	V	.	.	.
16.083	62.0159	170.16	.	.	QV	.	.	.
16.167	63.2920	185.30	.	.	Q	.	.	.
16.250	64.5963	189.39	.	.	Q	.	.	.
16.333	65.9285	193.43	.	.	Q	.	.	.
16.417	67.3348	204.20	.	.	VQ	.	.	.
16.500	68.8084	213.97	.	.	VQ	.	.	.
16.583	70.3489	223.67	.	.	VQ	.	.	.
16.667	72.0688	249.74	.	.	V	Q.	.	.
16.750	73.9317	270.49	.	.	V	.Q	.	.
16.833	75.9528	293.46	.	.	V	.Q	.	.
16.917	78.0237	300.70	.	.	V	.Q	.	.
17.000	80.1548	309.44	.	.	V	.Q	.	.
17.083	82.4343	330.98	.	.	V.	Q	.	.
17.167	84.5909	313.15	.	.	V.	Q	.	.
17.250	86.9037	335.82	.	.	V	Q	.	.
17.333	89.2409	339.35	.	.	V	Q	.	.
17.417	91.5154	330.26	.	.	.V	Q	.	.
17.500	93.9580	354.66	.	.	.V	Q	.	.
17.583	96.5490	376.22	.	.	.V	Q	.	.
17.667	98.9458	348.01	.	.	.V	Q	.	.
17.750	101.6506	392.73	.	.	.V	.Q	.	.
17.833	104.3542	392.56	.	.	.V	.Q	.	.
17.917	107.1305	403.13	.	.	.V	.Q	.	.
18.000	109.5532	351.77	.	.	.V	Q	.	.
18.083	111.9594	349.39	.	.	.VQ	.	.	.
18.167	114.5972	383.01	.	.	.V	Q	.	.
18.250	117.0792	360.38	.	.	.VQ	.	.	.
18.333	119.3491	329.59	.	.	.QV	.	.	.
18.417	121.5625	321.39	.	.	Q	V	.	.

18.500	123.6706	306.10	.	.	.	Q	V.	.
18.583	125.6426	286.33	.	.	.	Q	V.	.
18.667	127.4388	260.82	.	.	.	Q	V.	.
18.750	129.2070	256.74	.	.	.	Q	V	.
18.833	130.9275	249.81	.	.	.	Q.	V	.
18.917	132.5462	235.04	.	.	.	Q	.V	.
19.000	134.0642	220.41	.	.	.	Q	.V	.
19.083	135.4687	203.93	.	.	.	Q	.V	.
19.167	136.7623	187.83	.	.	.	Q	.V	.
19.250	137.9891	178.14	.	.	.	Q	.V	.
19.333	139.1589	169.85	.	.	.	Q	.V	.
19.417	140.2880	163.95	.	.	.	Q	.V	.
19.500	141.3653	156.43	.	.	.	Q	.V	.
19.583	142.4008	150.35	.	.	.	Q	.V	.
19.667	143.3695	140.65	.	.	.	Q	.V	.
19.750	144.2602	129.33	.	.	.	Q	.V	.
19.833	145.1217	125.09	.	.	.	Q	.V	.
19.917	145.9498	120.23	.	.	.	Q.	.V	.
20.000	146.7062	109.83	.	.	.	Q	.V	.
20.083	147.4287	104.91	.	.	.	Q	.V	.
20.167	148.1291	101.70	.	.	.	Q	.V	.
20.250	148.8085	98.65	.	.	.	Q	.V	.
20.333	149.4658	95.44	.	.	.	Q	.V	.
20.417	150.0788	89.00	.	.	.	Q	.V	.
20.500	150.6185	78.37	.	.	.	Q	.V	.
20.583	151.1382	75.47	.	.	.	Q	.V	.
20.667	151.6437	73.40	.	.	.	Q	.V	.
20.750	152.1362	71.51	.	.	.	Q	.V	.
20.833	152.6149	69.51	.	.	.	Q	.V	.
20.917	153.0807	67.64	.	.	.	Q	.V	.
21.000	153.5352	65.98	.	.	.	Q	.V	.
21.083	153.9791	64.46	.	.	.	Q	.V	.
21.167	154.4129	63.00	.	.	.	Q	.V	.
21.250	154.8373	61.62	.	.	.	Q	.V	.
21.333	155.2526	60.30	.	.	.	Q	.V	.
21.417	155.6594	59.07	.	.	.	Q	.V	.
21.500	156.0587	57.98	.	.	.	Q	.V	.
21.583	156.4508	56.93	.	.	.	Q	.V	.
21.667	156.8361	55.94	.	.	.	Q	.V	.
21.750	157.2151	55.04	.	.	.	Q	.V	.
21.833	157.5884	54.21	.	.	.	Q	.V	.
21.917	157.9561	53.39	.	.	.	Q	.V	.
22.000	158.3185	52.61	.	.	.	Q	.V	.
22.083	158.6754	51.83	.	.	.	Q	.V	.
22.167	159.0270	51.05	.	.	.	Q	.V	.
22.250	159.3729	50.22	.	.	.	Q	.V	.
22.333	159.7125	49.31	.	.	.	Q	.V	.
22.417	160.0334	46.60	.	.	.	Q	.V	.
22.500	160.3376	44.16	.	.	.	Q	.V	.
22.583	160.6372	43.51	.	.	.	Q	.V	.
22.667	160.9329	42.93	.	.	.	Q	.V	.
22.750	161.2246	42.35	.	.	.	Q	.V	.
22.833	161.5121	41.76	.	.	.	Q	.V	.
22.917	161.7958	41.19	.	.	.	Q	.V	.
23.000	162.0757	40.64	.	.	.	Q	.V	.
23.083	162.3519	40.11	.	.	.	Q	.V	.
23.167	162.6246	39.59	.	.	.	Q	.V	.
23.250	162.8938	39.10	.	.	.	Q	.V	.

23.333	163.1598	38.61	. Q	.	.	.	V .
23.417	163.4226	38.17	. Q	.	.	.	V .
23.500	163.6826	37.75	. Q	.	.	.	V .
23.583	163.9399	37.36	. Q	.	.	.	V .
23.667	164.1945	36.97	. Q	.	.	.	V .
23.750	164.4465	36.59	. Q	.	.	.	V .
23.833	164.6960	36.23	. Q	.	.	.	V .
23.917	164.9430	35.87	. Q	.	.	.	V .
24.000	165.1877	35.52	. Q	.	.	.	V .
24.083	165.4295	35.11	. Q	.	.	.	V .
24.167	165.6680	34.63	. Q	.	.	.	V .
24.250	165.9032	34.16	. Q	.	.	.	V .
24.333	166.1353	33.70	. Q	.	.	.	V .
24.417	166.3640	33.21	. Q	.	.	.	V .
24.500	166.5892	32.70	. Q	.	.	.	V .
24.583	166.8108	32.17	. Q	.	.	.	V .
24.667	167.0277	31.50	. Q	.	.	.	V .
24.750	167.2395	30.74	. Q	.	.	.	V .
24.833	167.4451	29.86	. Q	.	.	.	V .
24.917	167.6445	28.96	. Q	.	.	.	V .
25.000	167.8376	28.03	. Q	.	.	.	V .
25.083	168.0233	26.97	. Q	.	.	.	V .
25.167	168.2027	26.05	. Q	.	.	.	V .
25.250	168.3749	25.00	. Q	.	.	.	V .
25.333	168.5397	23.94	. Q	.	.	.	V .
25.417	168.6980	22.97	. Q	.	.	.	V .
25.500	168.8485	21.86	. Q	.	.	.	V .
25.583	168.9904	20.60	. Q	.	.	.	V .
25.667	169.1252	19.57	. Q	.	.	.	V .
25.750	169.2508	18.24	. Q	.	.	.	V .
25.833	169.3672	16.91	. Q	.	.	.	V .
25.917	169.4739	15.49	. Q	.	.	.	V .
26.000	169.5732	14.42	. Q	.	.	.	V .
26.083	169.6652	13.36	. Q	.	.	.	V .
26.167	169.7483	12.06	. Q	.	.	.	V .
26.250	169.8233	10.89	. Q	.	.	.	V .
26.333	169.8915	9.91	. Q	.	.	.	V .
26.417	169.9531	8.95	. Q	.	.	.	V .
26.500	170.0087	8.06	. Q	.	.	.	V .
26.583	170.0588	7.28	. Q	.	.	.	V .
26.667	170.1046	6.65	. Q	.	.	.	V .
26.750	170.1459	6.00	. Q	.	.	.	V .
26.833	170.1829	5.38	. Q	.	.	.	V .
26.917	170.2160	4.81	. Q	.	.	.	V .
27.000	170.2456	4.30	. Q	.	.	.	V .
27.083	170.2722	3.86	. Q	.	.	.	V .
27.167	170.2963	3.50	. Q	.	.	.	V .
27.250	170.3182	3.17	. Q	.	.	.	V .
27.333	170.3379	2.87	. Q	.	.	.	V .
27.417	170.3556	2.57	. Q	.	.	.	V .
27.500	170.3714	2.30	. Q	.	.	.	V .
27.583	170.3854	2.03	. Q	.	.	.	V .
27.667	170.3979	1.80	. Q	.	.	.	V .
27.750	170.4090	1.62	. Q	.	.	.	V .
27.833	170.4190	1.45	. Q	.	.	.	V .
27.917	170.4278	1.28	. Q	.	.	.	V .
28.000	170.4357	1.15	. Q	.	.	.	V .
28.083	170.4429	1.04	. Q	.	.	.	V .

28.167	170.4494	0.93	. Q	.	.	.	V .
28.250	170.4550	0.82	. Q	.	.	.	V .
28.333	170.4600	0.72	. Q	.	.	.	V .
28.417	170.4643	0.63	. Q	.	.	.	V .
28.500	170.4684	0.60	. Q	.	.	.	V .
28.583	170.4723	0.57	. Q	.	.	.	V .
28.667	170.4761	0.54	. Q	.	.	.	V .
28.750	170.4796	0.51	. Q	.	.	.	V .
28.833	170.4829	0.48	. Q	.	.	.	V .
28.917	170.4861	0.46	. Q	.	.	.	V .
29.000	170.4890	0.43	. Q	.	.	.	V .
29.083	170.4918	0.40	. Q	.	.	.	V .
29.167	170.4943	0.37	. Q	.	.	.	V .
29.250	170.4967	0.35	. Q	.	.	.	V .
29.333	170.4989	0.32	. Q	.	.	.	V .
29.417	170.5009	0.29	. Q	.	.	.	V .
29.500	170.5028	0.27	. Q	.	.	.	V .
29.583	170.5044	0.24	. Q	.	.	.	V .
29.667	170.5059	0.21	. Q	.	.	.	V .
29.750	170.5072	0.19	. Q	.	.	.	V .
29.833	170.5083	0.16	. Q	.	.	.	V .
29.917	170.5092	0.14	. Q	.	.	.	V .
30.000	170.5100	0.11	. Q	.	.	.	V .
30.083	170.5106	0.09	. Q	.	.	.	V .
30.167	170.5110	0.06	. Q	.	.	.	V .
30.250	170.5113	0.04	. Q	.	.	.	V .
30.333	170.5114	0.01	. Q	.	.	.	V .

-----  
TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
(Note: 100% of Peak Flow Rate estimate assumed to have  
an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
=====	=====
0%	1820.0
10%	870.0
20%	385.0
30%	275.0
40%	205.0
50%	165.0
60%	135.0
70%	110.0
80%	75.0
90%	25.0
=====	=====

END OF FLOODSCx ROUTING ANALYSIS

\*\*\*\*\*

FLOOD ROUTING ANALYSIS
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)
(c) Copyright 1989-2013 Advanced Engineering Software (aes)
Ver. 20.0 Release Date: 06/01/2013 License ID 1237

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*
\* RMV PA-3 BODR 2022 - NODE 133U \*
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*
\* 2-YR EV JULY 2022 ROKAMOTO \*

FILE NAME: EVO233US.DAT
TIME/DATE OF STUDY: 11:59 07/25/2022

\*\*\*\*\*

FLOW PROCESS FROM NODE 13010.00 TO NODE 133.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<

\*\*\*\*\*

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 54417.500 ACRES
BASEFLOW = 0.000 CFS/SQUARE-MILE
\*USER ENTERED "LAG" TIME = 5.932 HOURS
VALLEY (DEVELOPED) S-GRAPH SELECTED
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.581
LOW LOSS FRACTION = 0.915
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.15
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.29
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 0.41
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 0.76
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 1.12
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 1.97

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:
5-MINUTE FACTOR = 0.328
30-MINUTE FACTOR = 0.381
1-HOUR FACTOR = 0.422
3-HOUR FACTOR = 0.771
6-HOUR FACTOR = 0.897
24-HOUR FACTOR = 0.940

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 1.405

UNIT HYDROGRAPH DETERMINATION

Table with 3 columns: INTERVAL NUMBER, "S" GRAPH MEAN VALUES, UNIT HYDROGRAPH ORDINATES (CFS). Rows 1-48.

49	24.505	6085.055
50	25.307	5282.863
51	26.110	5282.875
52	26.913	5283.152
53	27.719	5305.182
54	28.726	6625.602
55	29.837	7313.554
56	30.811	6410.591
57	31.760	6245.877
58	33.027	8333.204
59	34.340	8643.138
60	35.469	7429.338
61	36.395	6096.364
62	37.144	4931.745
63	37.957	5345.199
64	39.476	10001.894
65	40.832	8921.627
66	42.031	7893.428
67	43.340	8608.242
68	44.610	8361.786
69	45.841	8101.573
70	47.242	9216.158
71	48.821	10394.736
72	50.311	9804.594
73	51.345	6802.894
74	52.366	6723.386
75	53.388	6723.963
76	54.375	6495.810
77	55.312	6166.382
78	56.303	6524.957
79	57.422	7362.182
80	58.607	7795.619
81	59.881	8390.381
82	61.415	10093.376
83	62.757	8829.567
84	63.921	7659.525
85	64.928	6629.042
86	65.899	6390.017
87	66.827	6110.900
88	67.751	6080.071
89	68.832	7113.944
90	69.945	7321.010
91	70.808	5678.593
92	71.627	5394.957
93	72.499	5733.522
94	73.414	6023.987
95	74.310	5899.366
96	75.175	5693.455
97	76.004	5454.405
98	76.653	4269.551
99	77.278	4111.691
100	77.902	4108.277
101	78.526	4108.227
102	79.150	4108.277
103	79.775	4112.846
104	80.423	4261.518
105	81.084	4348.431
106	81.745	4350.741

107	82.364	4071.674
108	82.955	3893.228
109	83.546	3890.969
110	84.123	3794.867
111	84.660	3534.126
112	85.195	3520.419
113	85.730	3524.938
114	86.214	3184.113
115	86.647	2847.907
116	87.079	2841.029
117	87.511	2847.857
118	87.937	2797.547
119	88.287	2308.050
120	88.618	2177.655
121	88.948	2173.086
122	89.279	2177.655
123	89.609	2173.086
124	89.938	2163.897
125	90.242	2001.519
126	90.538	1946.639
127	90.834	1946.639
128	91.129	1944.329
129	91.425	1946.589
130	91.721	1946.639
131	92.013	1919.174
132	92.283	1777.331
133	92.550	1761.364
134	92.818	1761.314
135	93.086	1761.364
136	93.353	1761.314
137	93.621	1761.364
138	93.888	1756.745
139	94.104	1422.799
140	94.283	1175.766
141	94.461	1171.147
142	94.639	1175.766
143	94.817	1171.197
144	94.997	1180.285
145	95.174	1166.628
146	95.353	1180.335
147	95.531	1171.147
148	95.709	1171.197
149	95.888	1180.335
150	96.040	997.320
151	96.151	731.960
152	96.261	722.872
153	96.372	727.391
154	96.482	727.391
155	96.592	722.822
156	96.702	727.441
157	96.812	722.822
158	96.922	722.822
159	97.033	727.441
160	97.143	727.391
161	97.253	722.822
162	97.364	727.441
163	97.473	722.822
164	97.583	722.822

165	97.694	727.441
166	97.804	727.391
167	97.914	722.822
168	98.002	581.029
169	98.032	196.723
170	98.059	173.827
171	98.085	173.877
172	98.112	173.827
173	98.138	173.827
174	98.164	173.877
175	98.189	164.689
176	98.217	183.015
177	98.244	173.827
178	98.269	169.258
179	98.296	173.877
180	98.322	173.827
181	98.349	173.827
182	98.374	169.308
183	98.401	173.827
184	98.427	173.827
185	98.454	178.446
186	98.480	169.258
187	98.507	178.446
188	98.533	169.258
189	98.559	173.827
190	98.586	173.877
191	98.612	173.827
192	98.639	173.877
193	98.664	164.689
194	98.691	182.965
195	98.718	173.877
196	98.744	173.827
197	98.769	164.689
198	98.797	183.015
199	98.822	164.689
200	98.848	173.827
201	98.876	183.015
202	98.901	164.689
203	98.928	173.877
204	98.954	173.827
205	98.982	183.015
206	99.007	164.689
207	99.032	164.689
208	99.057	164.689
209	99.082	164.689
210	99.107	164.689
211	99.132	164.689
212	99.157	164.689
213	99.182	164.689
214	99.207	164.689
215	99.232	164.689
216	99.257	164.689
217	99.282	164.689
218	99.307	164.689
219	99.332	164.689
220	99.357	164.689
221	99.382	164.689
222	99.407	164.689

223	99.432	164.689
224	99.457	164.689
225	99.482	164.689
226	99.507	164.689
227	99.532	164.689
228	99.557	164.689
229	99.582	164.689
230	99.608	164.689
231	99.633	164.689
232	99.658	164.689
233	99.683	164.689
234	99.708	164.689
235	99.733	164.689
236	99.758	164.689
237	99.783	164.689
238	99.808	164.689
239	99.833	164.689
240	99.858	164.689
241	99.883	164.689
242	99.908	164.689
243	99.933	164.689
244	99.958	164.689
245	99.983	164.689
246	100.000	112.621

-----  
TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 7695.3472  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 714.4993  
-----

2 4 - 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 FIVE-MINUTE UNIT INTERVALS (CFS)

(Note: Time indicated is at END of Each Unit Intervals)

TIME (HRS)	VOLUME (AF)	Q (CFS)	0.	175.0	350.0	525.0	700.0
0.083	0.0009	0.13	Q	.	.	.	.
0.167	0.0035	0.38	Q	.	.	.	.
0.250	0.0079	0.64	Q	.	.	.	.
0.333	0.0141	0.90	Q	.	.	.	.
0.417	0.0221	1.16	Q	.	.	.	.
0.500	0.0318	1.42	Q	.	.	.	.
0.583	0.0434	1.68	Q	.	.	.	.
0.667	0.0567	1.94	Q	.	.	.	.
0.750	0.0719	2.20	Q	.	.	.	.
0.833	0.0888	2.46	Q	.	.	.	.
0.917	0.1076	2.72	Q	.	.	.	.
1.000	0.1281	2.99	Q	.	.	.	.
1.083	0.1507	3.27	Q	.	.	.	.
1.167	0.1759	3.66	Q	.	.	.	.
1.250	0.2038	4.06	Q	.	.	.	.
1.333	0.2345	4.46	Q	.	.	.	.
1.417	0.2680	4.86	Q	.	.	.	.
1.500	0.3042	5.26	Q	.	.	.	.
1.583	0.3433	5.67	Q	.	.	.	.
1.667	0.3851	6.08	Q	.	.	.	.
1.750	0.4299	6.51	Q	.	.	.	.
1.833	0.4793	7.17	Q	.	.	.	.
1.917	0.5338	7.91	Q	.	.	.	.
2.000	0.5934	8.65	Q	.	.	.	.
2.083	0.6581	9.39	Q	.	.	.	.
2.167	0.7286	10.23	Q	.	.	.	.
2.250	0.8058	11.21	Q	.	.	.	.
2.333	0.8897	12.18	Q	.	.	.	.
2.417	0.9806	13.20	Q	.	.	.	.
2.500	1.0797	14.40	Q	.	.	.	.
2.583	1.1875	15.64	Q	.	.	.	.
2.667	1.3035	16.86	Q	.	.	.	.
2.750	1.4277	18.03	VQ	.	.	.	.
2.833	1.5599	19.20	VQ	.	.	.	.
2.917	1.7003	20.38	VQ	.	.	.	.
3.000	1.8488	21.56	VQ	.	.	.	.
3.083	2.0055	22.76	VQ	.	.	.	.
3.167	2.1735	24.38	VQ	.	.	.	.
3.250	2.3539	26.21	VQ	.	.	.	.
3.333	2.5440	27.60	VQ	.	.	.	.
3.417	2.7429	28.88	VQ	.	.	.	.
3.500	2.9506	30.16	VQ	.	.	.	.
3.583	3.1672	31.45	VQ	.	.	.	.
3.667	3.3927	32.74	VQ	.	.	.	.
3.750	3.6282	34.20	VQ	.	.	.	.
3.833	3.8748	35.80	V Q	.	.	.	.
3.917	4.1332	37.53	V Q	.	.	.	.

4.000	4.4048	39.44	V Q	.	.	.	.
4.083	4.6874	41.03	V Q	.	.	.	.
4.167	4.9798	42.44	V Q	.	.	.	.
4.250	5.2818	43.86	V Q	.	.	.	.
4.333	5.5937	45.28	V Q	.	.	.	.
4.417	5.9154	46.71	V Q	.	.	.	.
4.500	6.2492	48.47	V Q	.	.	.	.
4.583	6.5962	50.39	V Q	.	.	.	.
4.667	6.9551	52.11	V Q	.	.	.	.
4.750	7.3256	53.79	V Q	.	.	.	.
4.833	7.7111	55.99	V Q	.	.	.	.
4.917	8.1124	58.26	V Q	.	.	.	.
5.000	8.5273	60.25	V Q	.	.	.	.
5.083	8.9538	61.93	V Q	.	.	.	.
5.167	9.3899	63.32	V Q	.	.	.	.
5.250	9.8364	64.83	V Q	.	.	.	.
5.333	10.3011	67.47	V Q	.	.	.	.
5.417	10.7821	69.85	V Q	.	.	.	.
5.500	11.2779	71.99	V Q	.	.	.	.
5.583	11.7898	74.32	V Q	.	.	.	.
5.667	12.3173	76.59	V Q	.	.	.	.
5.750	12.8601	78.81	V Q	.	.	.	.
5.833	13.4200	81.31	V Q	.	.	.	.
5.917	13.9992	84.10	V Q	.	.	.	.
6.000	14.5967	86.76	V Q	.	.	.	.
6.083	15.2076	88.70	V Q	.	.	.	.
6.167	15.8318	90.63	V Q	.	.	.	.
6.250	16.4693	92.57	V Q	.	.	.	.
6.333	17.1199	94.46	V Q	.	.	.	.
6.417	17.7829	96.28	V Q	.	.	.	.
6.500	18.4592	98.19	.V Q	.	.	.	.
6.583	19.1500	100.31	.V Q	.	.	.	.
6.667	19.8563	102.55	.V Q	.	.	.	.
6.750	20.5790	104.94	.V Q	.	.	.	.
6.833	21.3211	107.75	.V Q	.	.	.	.
6.917	22.0805	110.27	.V Q	.	.	.	.
7.000	22.8554	112.51	.V Q	.	.	.	.
7.083	23.6441	114.51	.V Q	.	.	.	.
7.167	24.4462	116.47	.V Q	.	.	.	.
7.250	25.2614	118.36	.V Q	.	.	.	.
7.333	26.0896	120.26	.V Q	.	.	.	.
7.417	26.9327	122.42	.V Q	.	.	.	.
7.500	27.7911	124.63	.V Q	.	.	.	.
7.583	28.6620	126.46	.V Q	.	.	.	.
7.667	29.5451	128.23	.V Q	.	.	.	.
7.750	30.4410	130.08	.V Q	.	.	.	.
7.833	31.3502	132.02	.V Q	.	.	.	.
7.917	32.2726	133.94	.V Q	.	.	.	.
8.000	33.2080	135.81	.V Q	.	.	.	.
8.083	34.1559	137.64	.V Q	.	.	.	.
8.167	35.1145	139.19	.V Q	.	.	.	.
8.250	36.0836	140.71	. V Q	.	.	.	.
8.333	37.0632	142.24	. V Q	.	.	.	.
8.417	38.0534	143.78	. V Q	.	.	.	.
8.500	39.0543	145.32	. V Q	.	.	.	.
8.583	40.0658	146.88	. V Q	.	.	.	.
8.667	41.0884	148.48	. V Q	.	.	.	.
8.750	42.1222	150.11	. V Q	.	.	.	.

8.833	43.1674	151.75	. V	Q .	.	.	.
8.917	44.2234	153.34	. V	Q .	.	.	.
9.000	45.2902	154.89	. V	Q .	.	.	.
9.083	46.3676	156.45	. V	Q .	.	.	.
9.167	47.4557	158.00	. V	Q .	.	.	.
9.250	48.5541	159.49	. V	Q .	.	.	.
9.333	49.6629	160.99	. V	Q .	.	.	.
9.417	50.7820	162.50	. V	Q .	.	.	.
9.500	51.9111	163.94	. V	Q .	.	.	.
9.583	53.0496	165.31	. V	Q .	.	.	.
9.667	54.1976	166.69	. V	Q .	.	.	.
9.750	55.3551	168.07	. V	Q .	.	.	.
9.833	56.5222	169.46	. V	Q .	.	.	.
9.917	57.6982	170.74	. V	Q .	.	.	.
10.000	58.8827	172.00	. V	Q .	.	.	.
10.083	60.0761	173.27	. V	Q .	.	.	.
10.167	61.2782	174.55	. V	Q .	.	.	.
10.250	62.4893	175.84	. V	Q .	.	.	.
10.333	63.7093	177.15	. V	Q .	.	.	.
10.417	64.9380	178.42	. V	Q .	.	.	.
10.500	66.1756	179.69	. V	Q .	.	.	.
10.583	67.4219	180.97	. V	Q .	.	.	.
10.667	68.6772	182.27	. V	Q .	.	.	.
10.750	69.9415	183.57	. V	Q .	.	.	.
10.833	71.2149	184.90	. V	Q .	.	.	.
10.917	72.4974	186.22	. V	Q .	.	.	.
11.000	73.7890	187.53	. V	Q .	.	.	.
11.083	75.0896	188.85	. V	Q .	.	.	.
11.167	76.3994	190.18	. V	Q .	.	.	.
11.250	77.7184	191.52	. V	Q .	.	.	.
11.333	79.0468	192.89	. V	.Q	.	.	.
11.417	80.3847	194.26	. V	.Q	.	.	.
11.500	81.7321	195.65	. V	.Q	.	.	.
11.583	83.0887	196.97	. V	.Q	.	.	.
11.667	84.4540	198.25	. V	.Q	.	.	.
11.750	85.8283	199.55	. V	.Q	.	.	.
11.833	87.2117	200.86	. V	.Q	.	.	.
11.917	88.6041	202.19	. V	.Q	.	.	.
12.000	90.0059	203.54	. V	.Q	.	.	.
12.083	91.4185	205.11	. V	.Q	.	.	.
12.167	92.8435	206.92	. V	.Q	.	.	.
12.250	94.2811	208.73	. V	.Q	.	.	.
12.333	95.7313	210.57	. V	.Q	.	.	.
12.417	97.1943	212.42	. V	.Q	.	.	.
12.500	98.6699	214.26	. V	.Q	.	.	.
12.583	100.1577	216.04	. V	.Q	.	.	.
12.667	101.6581	217.85	. V	.Q	.	.	.
12.750	103.1709	219.67	. V	.Q	.	.	.
12.833	104.6965	221.51	. V	.Q	.	.	.
12.917	106.2349	223.37	. V	.Q	.	.	.
13.000	107.7863	225.26	. V	.Q	.	.	.
13.083	109.3510	227.20	. V	.Q	.	.	.
13.167	110.9304	229.33	. V	.Q	.	.	.
13.250	112.5248	231.50	. V	.Q	.	.	.
13.333	114.1343	233.70	. V	.Q	.	.	.
13.417	115.7591	235.92	. V	.Q	.	.	.
13.500	117.3994	238.17	. V	.Q	.	.	.
13.583	119.0553	240.44	. V	.Q	.	.	.

13.667	120.7271	242.74	. V	. Q	.	.	.
13.750	122.4151	245.10	. V	. Q	.	.	.
13.833	124.1223	247.89	. V	. Q	.	.	.
13.917	125.8496	250.80	. V	. Q	.	.	.
14.000	127.5970	253.72	. V	. Q	.	.	.
14.083	129.3657	256.81	. V	. Q	.	.	.
14.167	131.1585	260.32	. V	. Q	.	.	.
14.250	132.9770	264.05	. V	. Q	.	.	.
14.333	134.8214	267.80	. V	. Q	.	.	.
14.417	136.6920	271.61	. V	. Q	.	.	.
14.500	138.5911	275.75	. V	. Q	.	.	.
14.583	140.5190	279.94	. V	. Q	.	.	.
14.667	142.4757	284.10	. V	. Q	.	.	.
14.750	144.4605	288.19	. V	. Q	.	.	.
14.833	146.4736	292.31	. V	. Q	.	.	.
14.917	148.5151	296.42	. V	. Q	.	.	.
15.000	150.5850	300.56	. V	. Q	.	.	.
15.083	152.6838	304.75	. V	. Q	.	.	.
15.167	154.8177	309.85	. V	. Q	.	.	.
15.250	156.9891	315.28	. V	. Q	.	.	.
15.333	159.1930	320.00	. V	. Q	.	.	.
15.417	161.4260	324.23	. V	. Q	.	.	.
15.500	163.6861	328.18	. V	. Q	.	.	.
15.583	165.9739	332.19	. V	. Q	.	.	.
15.667	168.2899	336.29	. V	. Q	.	.	.
15.750	170.6359	340.63	. V	. Q	.	.	.
15.833	173.0164	345.65	. V	. Q	.	.	.
15.917	175.4351	351.20	. V	. Q	.	.	.
16.000	177.8967	357.42	. V	. Q	.	.	.
16.083	180.4090	364.78	. V	. Q	.	.	.
16.167	182.9688	371.68	. V	.Q	.	.	.
16.250	185.5657	377.07	. V	.Q	.	.	.
16.333	188.1992	382.38	. V	.Q	.	.	.
16.417	190.8707	387.91	. V	.Q	.	.	.
16.500	193.5868	394.38	. V	.Q	.	.	.
16.583	196.3495	401.14	. V	.Q	.	.	.
16.667	199.1562	407.54	. V	. Q	.	.	.
16.750	202.0059	413.77	. V	. Q	.	.	.
16.833	204.9038	420.78	. V	. Q	.	.	.
16.917	207.8510	427.93	. V	. Q	.	.	.
17.000	210.8453	434.77	. V	. Q	.	.	.
17.083	213.8838	441.18	. V	. Q	.	.	.
17.167	216.9690	447.97	. V	. Q	.	.	.
17.250	220.0948	453.87	. V	. Q	.	.	.
17.333	223.2669	460.60	. V	. Q	.	.	.
17.417	226.4807	466.65	. V	. Q	.	.	.
17.500	229.7321	472.10	. V	. Q	.	.	.
17.583	233.0214	477.60	. V	. Q	.	.	.
17.667	236.3507	483.42	. V	. Q	.	.	.
17.750	239.7260	490.09	. V	. Q	.	.	.
17.833	243.1660	499.49	. V	. Q	.	.	.
17.917	246.6573	506.93	. V	. Q	.	.	.
18.000	250.1960	513.81	. V	. Q	.	.	.
18.083	253.7702	518.97	. V	. Q	.	.	.
18.167	257.3855	524.95	. V	. Q	.	.	.
18.250	261.0447	531.31	. V	. Q	.	.	.
18.333	264.7371	536.14	. V	. Q	.	.	.
18.417	268.4665	541.51	. V	. Q	.	.	.

18.500	272.2433	548.40	.	.	V	.	.Q	.
18.583	276.0549	553.43	.	.	V	.	.Q	.
18.667	279.9026	558.68	.	.	V	.	.Q	.
18.750	283.7884	564.22	.	.	V	.	.Q	.
18.833	287.7248	571.57	.	.	V	.	.Q	.
18.917	291.7080	578.37	.	.	V	.	.Q	.
19.000	295.7371	585.02	.	.	V	.	.Q	.
19.083	299.8076	591.04	.	.	V	.	.Q	.
19.167	303.9409	600.16	.	.	V	.	.Q	.
19.250	308.1023	604.23	.	.	V	.	.Q	.
19.333	312.2502	602.29	.	.	V	.	.Q	.
19.417	316.4196	605.39	.	.	V	.	.Q	.
19.500	320.6240	610.48	.	.	V	.	.Q	.
19.583	324.8657	615.89	.	.	V	.	.Q	.
19.667	329.1387	620.44	.	.	V	.	.Q	.
19.750	333.4579	627.14	.	.	V	.	.Q	.
19.833	337.8172	632.96	.	.	V	.	.Q	.
19.917	342.2111	637.99	.	.	V	.	.Q	.
20.000	346.6363	642.54	.	.	V	.	.Q	.
20.083	351.0423	639.75	.	.	V	.	.Q	.
20.167	355.4243	636.28	.	.	V	.	.Q	.
20.250	359.7961	634.78	.	.	V	.	.Q	.
20.333	364.1761	635.97	.	.	V	.	.Q	.
20.417	368.5715	638.21	.	.	V	.	.Q	.
20.500	373.0034	643.51	.	.	V	.	.Q	.
20.583	377.4512	645.83	.	.	.V	.	.Q	.
20.667	381.8699	641.59	.	.	.V	.	.Q	.
20.750	386.2884	641.57	.	.	.V	.	.Q	.
20.833	390.7618	649.55	.	.	.V	.	.Q	.
20.917	395.2348	649.47	.	.	.V	.	.Q	.
21.000	399.6560	641.96	.	.	.V	.	.Q	.
21.083	404.0288	634.93	.	.	.V	.	.Q	.
21.167	408.3731	630.78	.	.	.V	.	.Q	.
21.250	412.7263	632.09	.	.	.V	.	.Q	.
21.333	417.1674	644.84	.	.	.V	.	.Q	.
21.417	421.5815	640.93	.	.	.V	.	.Q	.
21.500	425.9644	636.40	.	.	.V	.	.Q	.
21.583	430.3378	635.01	.	.	.V	.	.Q	.
21.667	434.7025	633.75	.	.	.V	.	.Q	.
21.750	439.0667	633.69	.	.	.V	.	.Q	.
21.833	443.4441	635.60	.	.	.V	.	.Q	.
21.917	447.8174	635.00	.	.	.V	.	.Q	.
22.000	452.1384	627.41	.	.	.V	.	.Q	.
22.083	456.3673	614.04	.	.	.V	.	.Q	.
22.167	460.5695	610.16	.	.	.V	.	.Q	.
22.250	464.7543	607.62	.	.	.V	.	.Q	.
22.333	468.9089	603.26	.	.	.V	.	.Q	.
22.417	473.0305	598.45	.	.	.V	.	.Q	.
22.500	477.1330	595.69	.	.	.V	.	.Q	.
22.583	481.2247	594.11	.	.	.V	.	.Q	.
22.667	485.3027	592.12	.	.	.V	.	.Q	.
22.750	489.3655	589.93	.	.	.V	.	.Q	.
22.833	493.4154	588.04	.	.	.V	.	.Q	.
22.917	497.3874	576.74	.	.	.V	.	.Q	.
23.000	501.2910	566.79	.	.	.V	.	.Q	.
23.083	505.1421	559.18	.	.	.V	.	.Q	.
23.167	508.9685	555.60	.	.	.V	.	.Q	.
23.250	512.7706	552.06	.	.	.V	.	.Q	.

23.333	516.5427	547.70	.	.	.	.	V	.Q	.
23.417	520.3026	545.95	.	.	.	.	V	.Q	.
23.500	524.0298	541.18	.	.	.	.	V	.Q	.
23.583	527.6810	530.16	.	.	.	.	V	.Q	.
23.667	531.2869	523.58	.	.	.	.	Q	.	.
23.750	534.8624	519.16	.	.	.	.	Q	.	.
23.833	538.3986	513.46	.	.	.	.	Q	V	.
23.917	541.8777	505.16	.	.	.	.	Q	V	.
24.000	545.2975	496.56	.	.	.	.	Q	V	.
24.083	548.6656	489.04	.	.	.	.	Q	V	.
24.167	551.9659	479.21	.	.	.	.	Q	V	.
24.250	555.2247	473.18	.	.	.	.	Q	.V	.
24.333	558.4462	467.76	.	.	.	.	Q	.V	.
24.417	561.6277	461.95	.	.	.	.	Q	.V	.
24.500	564.7630	455.25	.	.	.	.	Q	.V	.
24.583	567.8554	449.01	.	.	.	.	Q	.V	.
24.667	570.9073	443.14	.	.	.	.	Q	.V	.
24.750	573.9134	436.48	.	.	.	.	Q	.V	.
24.833	576.8661	428.73	.	.	.	.	Q	.V	.
24.917	579.7646	420.87	.	.	.	.	Q	.V	.
25.000	582.6152	413.90	.	.	.	.	Q	.V	.
25.083	585.4244	407.89	.	.	.	.	Q	.V	.
25.167	588.1942	402.17	.	.	.	.	Q	.V	.
25.250	590.9246	396.46	.	.	.	.	Q	.V	.
25.333	593.6206	391.45	.	.	.	.	Q	.V	.
25.417	596.2779	385.84	.	.	.	.	Q	.V	.
25.500	598.8883	379.03	.	.	.	.	.Q	.V	.
25.583	601.4564	372.88	.	.	.	.	.Q	.V	.
25.667	603.9890	367.74	.	.	.	.	.Q	.V	.
25.750	606.4849	362.40	.	.	.	.	Q	.V	.
25.833	608.9380	356.21	.	.	.	.	Q	.V	.
25.917	611.3395	348.70	.	.	.	.	Q	.V	.
26.000	613.6987	342.56	.	.	.	.	Q	.V	.
26.083	616.0184	336.81	.	.	.	.	Q	.V	.
26.167	618.3018	331.54	.	.	.	.	Q	.V	.
26.250	620.5471	326.02	.	.	.	.	Q	.V	.
26.333	622.7540	320.44	.	.	.	.	Q	.V	.
26.417	624.9191	314.38	.	.	.	.	Q	.V	.
26.500	627.0445	308.60	.	.	.	.	Q	.V	.
26.583	629.1314	303.02	.	.	.	.	Q	.V	.
26.667	631.1802	297.48	.	.	.	.	Q	.V	.
26.750	633.1905	291.89	.	.	.	.	Q	.V	.
26.833	635.1620	286.27	.	.	.	.	Q	.V	.
26.917	637.0977	281.06	.	.	.	.	Q	.V	.
27.000	638.9974	275.85	.	.	.	.	Q	.V	.
27.083	640.8644	271.08	.	.	.	.	Q	.V	.
27.167	642.6962	265.97	.	.	.	.	Q	.V	.
27.250	644.4928	260.87	.	.	.	.	Q	.V	.
27.333	646.2572	256.19	.	.	.	.	Q	.V	.
27.417	647.9899	251.59	.	.	.	.	Q	.V	.
27.500	649.6906	246.94	.	.	.	.	Q	.V	.
27.583	651.3536	241.47	.	.	.	.	Q	.V	.
27.667	652.9822	236.47	.	.	.	.	Q	.V	.
27.750	654.5810	232.15	.	.	.	.	Q	.V	.
27.833	656.1506	227.91	.	.	.	.	Q	.V	.
27.917	657.6917	223.76	.	.	.	.	Q	.V	.
28.000	659.2027	219.40	.	.	.	.	Q	.V	.
28.083	660.6841	215.10	.	.	.	.	Q	.V	.



28.167	662.1381	211.12	.	.Q	.	.	V	.
28.250	663.5645	207.11	.	.Q	.	.	V	.
28.333	664.9631	203.08	.	.Q	.	.	V	.
28.417	666.3335	198.99	.	.Q	.	.	V	.
28.500	667.6696	194.00	.	.Q	.	.	V	.
28.583	668.9705	188.89	.	Q	.	.	V	.
28.667	670.2446	185.01	.	Q	.	.	V	.
28.750	671.4932	181.29	.	Q	.	.	V	.
28.833	672.7122	177.01	.	Q	.	.	V	.
28.917	673.9006	172.56	.	Q.	.	.	V	.
29.000	675.0611	168.50	.	Q.	.	.	V	.
29.083	676.1959	164.78	.	Q.	.	.	V	.
29.167	677.3073	161.37	.	Q.	.	.	V	.
29.250	678.3947	157.90	.	Q.	.	.	V	.
29.333	679.4511	153.39	.	Q	.	.	V	.
29.417	680.4799	149.38	.	Q	.	.	V	.
29.500	681.4836	145.74	.	Q	.	.	V	.
29.583	682.4626	142.16	.	Q	.	.	V	.
29.667	683.4185	138.79	.	Q	.	.	V	.
29.750	684.3522	135.58	.	Q	.	.	V	.
29.833	685.2615	132.04	.	Q	.	.	V	.
29.917	686.1434	128.05	.	Q	.	.	V	.
30.000	686.9953	123.69	.	Q	.	.	V	.
30.083	687.8184	119.51	.	Q	.	.	V	.
30.167	688.6215	116.60	.	Q	.	.	V	.
30.250	689.4052	113.79	.	Q	.	.	V	.
30.333	690.1699	111.04	.	Q	.	.	V	.
30.417	690.9148	108.17	.	Q	.	.	V	.
30.500	691.6399	105.29	.	Q	.	.	V	.
30.583	692.3444	102.28	.	Q	.	.	V	.
30.667	693.0280	99.27	.	Q	.	.	V	.
30.750	693.6894	96.03	.	Q	.	.	V	.
30.833	694.3259	92.42	.	Q	.	.	V	.
30.917	694.9398	89.14	.	Q	.	.	V	.
31.000	695.5336	86.22	.	Q	.	.	V	.
31.083	696.1104	83.75	.	Q	.	.	V	.
31.167	696.6706	81.34	.	Q	.	.	V	.
31.250	697.2151	79.06	.	Q	.	.	V	.
31.333	697.7440	76.80	.	Q	.	.	V	.
31.417	698.2558	74.32	.	Q	.	.	V	.
31.500	698.7500	71.76	.	Q	.	.	V	.
31.583	699.2300	69.69	.	Q	.	.	V	.
31.667	699.6959	67.64	.	Q	.	.	V	.
31.750	700.1476	65.59	.	Q	.	.	V	.
31.833	700.5845	63.45	.	Q	.	.	V	.
31.917	701.0072	61.37	.	Q	.	.	V	.
32.000	701.4163	59.41	.	Q	.	.	V	.
32.083	701.8134	57.65	.	Q	.	.	V	.
32.167	702.2010	56.28	.	Q	.	.	V	.
32.250	702.5790	54.88	.	Q	.	.	V	.
32.333	702.9476	53.53	.	Q	.	.	V	.
32.417	703.3068	52.14	.	Q	.	.	V	.
32.500	703.6570	50.86	.	Q	.	.	V	.
32.583	703.9974	49.43	.	Q	.	.	V	.
32.667	704.3284	48.05	.	Q	.	.	V	.
32.750	704.6497	46.65	.	Q	.	.	V	.
32.833	704.9609	45.20	.	Q	.	.	V	.
32.917	705.2633	43.91	.	Q	.	.	V	.

33.000	705.5569	42.63	.	Q	.	.	V	.
33.083	705.8420	41.40	.	Q	.	.	V	.
33.167	706.1182	40.10	.	Q	.	.	V	.
33.250	706.3864	38.94	.	Q	.	.	V	.
33.333	706.6466	37.79	.	Q	.	.	V	.
33.417	706.8990	36.65	.	Q	.	.	V	.
33.500	707.1442	35.60	.	Q	.	.	V	.
33.583	707.3826	34.63	.	Q	.	.	V	.
33.667	707.6145	33.67	.	Q	.	.	V	.
33.750	707.8398	32.71	.	Q	.	.	V	.
33.833	708.0586	31.77	.	Q	.	.	V	.
33.917	708.2718	30.96	.	Q	.	.	V	.
34.000	708.4796	30.18	.	Q	.	.	V	.
34.083	708.6821	29.40	.	Q	.	.	V	.
34.167	708.8793	28.63	.	Q	.	.	V	.
34.250	709.0712	27.86	.	Q	.	.	V	.
34.333	709.2579	27.11	.	Q	.	.	V	.
34.417	709.4396	26.39	.	Q	.	.	V	.
34.500	709.6164	25.67	.	Q	.	.	V	.
34.583	709.7879	24.90	.	Q	.	.	V	.
34.667	709.9541	24.14	.	Q	.	.	V	.
34.750	710.1151	23.37	.	Q	.	.	V	.
34.833	710.2708	22.62	.	Q	.	.	V	.
34.917	710.4215	21.88	.	Q	.	.	V	.
35.000	710.5673	21.17	.	Q	.	.	V	.
35.083	710.7083	20.48	.	Q	.	.	V	.
35.167	710.8446	19.79	.	Q	.	.	V	.
35.250	710.9762	19.11	.	Q	.	.	V	.
35.333	711.1031	18.43	.	Q	.	.	V	.
35.417	711.2255	17.76	.	Q	.	.	V	.
35.500	711.3432	17.10	.	Q	.	.	V	.
35.583	711.4570	16.52	.	Q	.	.	V	.
35.667	711.5672	16.00	.	Q	.	.	V	.
35.750	711.6740	15.50	.	Q	.	.	V	.
35.833	711.7774	15.02	.	Q	.	.	V	.
35.917	711.8781	14.62	.	Q	.	.	V	.
36.000	711.9759	14.20	.	Q	.	.	V	.

-----  
TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
(Note: 100% of Peak Flow Rate estimate assumed to have  
an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
0%	2165.0
10%	1590.0
20%	1330.0
30%	1020.0
40%	790.0
50%	650.0
60%	535.0
70%	435.0
80%	335.0
90%	235.0

-----  
END OF FLOODSCx ROUTING ANALYSIS



\*\*\*\*\*

FLOOD ROUTING ANALYSIS
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)
(c) Copyright 1989-2013 Advanced Engineering Software (aes)
Ver. 20.0 Release Date: 06/01/2013 License ID 1237

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*
\* RMV PA-3 ROMP AMENDMENT 2022 - NODE 134C \*
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*
\* 2-YR EV OCT 2022 ROKAMOTO \*

FILE NAME: EVO234CS.DAT
TIME/DATE OF STUDY: 13:46 10/25/2022

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 134.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<

\*\*\*\*\*

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 66607.102 ACRES
BASEFLOW = 0.000 CFS/SQUARE-MILE
\*USER ENTERED "LAG" TIME = 6.120 HOURS
VALLEY (DEVELOPED) S-GRAPH SELECTED
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.567
LOW LOSS FRACTION = 0.903
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.15
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.29
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 0.40
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 0.74
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 1.07
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 1.88

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:
5-MINUTE FACTOR = 0.293
30-MINUTE FACTOR = 0.352
1-HOUR FACTOR = 0.397
3-HOUR FACTOR = 0.740
6-HOUR FACTOR = 0.887
24-HOUR FACTOR = 0.933

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 1.362

UNIT HYDROGRAPH DETERMINATION

Table with 3 columns: INTERVAL NUMBER, "S" GRAPH MEAN VALUES, UNIT HYDROGRAPH ORDINATES (CFS). Rows 1-48.

49	23.032	8551.992
50	24.063	8306.103
51	24.865	6456.707
52	25.643	6267.496
53	26.421	6268.203
54	27.199	6267.496
55	28.012	6545.527
56	29.058	8424.177
57	30.110	8479.780
58	31.030	7409.936
59	31.980	7653.291
60	33.269	10377.589
61	34.504	9951.860
62	35.591	8752.403
63	36.455	6965.786
64	37.181	5849.388
65	37.974	6383.757
66	39.458	11956.559
67	40.782	10660.275
68	41.939	9324.354
69	43.201	10167.790
70	44.445	10019.771
71	45.629	9532.293
72	46.957	10701.482
73	48.437	11924.048
74	49.994	12535.698
75	51.050	8507.590
76	52.040	7976.816
77	53.030	7977.522
78	54.009	7886.535
79	54.927	7389.010
80	55.844	7386.091
81	56.891	8433.195
82	57.994	8889.606
83	59.188	9617.534
84	60.518	10709.380
85	62.008	12007.844
86	63.200	9597.284
87	64.283	8726.377
88	65.233	7649.004
89	66.165	7511.709
90	67.058	7191.149
91	67.969	7344.177
92	69.050	8707.663
93	70.099	8443.274
94	70.912	6555.683
95	71.707	6402.532
96	72.559	6858.912
97	73.446	7144.872
98	74.314	6993.257
99	75.152	6753.514
100	75.962	6525.324
101	76.598	5118.511
102	77.203	4878.828
103	77.808	4870.163
104	78.414	4878.767
105	79.019	4873.051
106	79.624	4875.939

107	80.243	4985.702
108	80.883	5158.949
109	81.524	5159.011
110	82.146	5008.810
111	82.721	4633.307
112	83.294	4618.803
113	83.865	4601.534
114	84.399	4295.293
115	84.918	4179.754
116	85.436	4179.816
117	85.946	4107.542
118	86.382	3512.515
119	86.801	3373.868
120	87.220	3376.757
121	87.640	3376.757
122	88.038	3209.163
123	88.365	2631.529
124	88.685	2582.363
125	89.006	2582.425
126	89.326	2579.475
127	89.646	2579.475
128	89.964	2559.317
129	90.257	2359.950
130	90.543	2307.958
131	90.830	2310.907
132	91.117	2307.958
133	91.404	2310.846
134	91.690	2305.130
135	91.975	2293.515
136	92.238	2123.095
137	92.498	2091.322
138	92.757	2091.322
139	93.016	2085.606
140	93.276	2091.322
141	93.535	2085.544
142	93.794	2091.322
143	94.032	1912.236
144	94.209	1426.971
145	94.381	1386.532
146	94.554	1392.248
147	94.728	1398.086
148	94.900	1392.309
149	95.073	1392.309
150	95.246	1392.248
151	95.419	1392.309
152	95.592	1392.309
153	95.765	1398.086
154	95.937	1386.532
155	96.068	1051.407
156	96.175	860.829
157	96.282	866.544
158	96.389	855.052
159	96.495	860.767
160	96.602	860.767
161	96.709	860.829
162	96.815	854.990
163	96.923	866.606
164	97.029	854.990

165	97.137	866.606
166	97.243	854.990
167	97.350	860.829
168	97.456	860.767
169	97.563	860.829
170	97.670	860.767
171	97.777	860.829
172	97.883	854.990
173	97.983	803.059
174	98.023	323.510
175	98.048	202.194
176	98.074	207.971
177	98.100	207.971
178	98.125	202.194
179	98.150	202.194
180	98.177	213.809
181	98.201	196.417
182	98.227	213.748
183	98.253	207.971
184	98.278	196.417
185	98.304	213.748
186	98.329	196.417
187	98.355	213.748
188	98.380	202.194
189	98.406	208.032
190	98.433	213.748
191	98.458	202.194
192	98.483	207.971
193	98.509	207.971
194	98.534	202.194
195	98.560	207.971
196	98.585	202.194
197	98.612	213.748
198	98.636	196.478
199	98.662	207.971
200	98.688	207.971
201	98.714	207.971
202	98.738	196.417
203	98.765	219.525
204	98.790	196.417
205	98.816	207.971
206	98.840	196.417
207	98.867	219.586
208	98.892	196.417
209	98.919	219.525
210	98.943	196.417
211	98.968	196.417
212	98.995	219.525
213	99.019	196.417
214	99.044	196.417
215	99.068	196.417
216	99.092	196.417
217	99.117	196.417
218	99.141	196.417
219	99.166	196.417
220	99.190	196.417
221	99.214	196.417
222	99.239	196.417

223	99.263	196.417
224	99.287	196.417
225	99.312	196.417
226	99.336	196.417
227	99.361	196.417
228	99.385	196.417
229	99.409	196.417
230	99.434	196.417
231	99.458	196.417
232	99.482	196.417
233	99.507	196.417
234	99.531	196.417
235	99.556	196.417
236	99.580	196.417
237	99.604	196.417
238	99.629	196.417
239	99.653	196.417
240	99.678	196.417
241	99.702	196.417
242	99.726	196.417
243	99.751	196.417
244	99.775	196.417
245	99.799	196.417
246	99.824	196.417
247	99.848	196.417
248	99.873	196.417
249	99.897	196.417
250	99.921	196.417
251	99.946	196.417
252	99.970	196.417
253	99.995	196.417
254	100.000	43.942

-----  
TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 8771.6738  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 941.7646  
-----

=====  
 2 4 - 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 FIVE-MINUTE UNIT INTERVALS (CFS)

(Note: Time indicated is at END of Each Unit Intervals)

TIME (HRS)	VOLUME (AF)	Q (CFS)	0.	225.0	450.0	675.0	900.0
0.083	0.0011	0.16	Q	.	.	.	.
0.167	0.0045	0.49	Q	.	.	.	.
0.250	0.0101	0.82	Q	.	.	.	.
0.333	0.0180	1.15	Q	.	.	.	.
0.417	0.0282	1.47	Q	.	.	.	.
0.500	0.0406	1.80	Q	.	.	.	.
0.583	0.0553	2.14	Q	.	.	.	.
0.667	0.0723	2.47	Q	.	.	.	.
0.750	0.0916	2.80	Q	.	.	.	.
0.833	0.1132	3.14	Q	.	.	.	.
0.917	0.1371	3.47	Q	.	.	.	.
1.000	0.1633	3.81	Q	.	.	.	.
1.083	0.1919	4.15	Q	.	.	.	.
1.167	0.2235	4.59	Q	.	.	.	.
1.250	0.2586	5.10	Q	.	.	.	.
1.333	0.2973	5.61	Q	.	.	.	.
1.417	0.3395	6.13	Q	.	.	.	.
1.500	0.3853	6.64	Q	.	.	.	.
1.583	0.4346	7.16	Q	.	.	.	.
1.667	0.4874	7.68	Q	.	.	.	.
1.750	0.5439	8.20	Q	.	.	.	.
1.833	0.6046	8.82	Q	.	.	.	.
1.917	0.6717	9.74	Q	.	.	.	.
2.000	0.7453	10.68	Q	.	.	.	.
2.083	0.8254	11.63	Q	.	.	.	.
2.167	0.9120	12.58	Q	.	.	.	.
2.250	1.0064	13.71	Q	.	.	.	.
2.333	1.1093	14.95	Q	.	.	.	.
2.417	1.2209	16.20	Q	.	.	.	.
2.500	1.3414	17.51	Q	.	.	.	.
2.583	1.4727	19.06	Q	.	.	.	.
2.667	1.6149	20.64	Q	.	.	.	.
2.750	1.7677	22.19	Q	.	.	.	.
2.833	1.9308	23.69	VQ	.	.	.	.
2.917	2.1043	25.19	VQ	.	.	.	.
3.000	2.2881	26.69	VQ	.	.	.	.
3.083	2.4823	28.20	VQ	.	.	.	.
3.167	2.6870	29.71	VQ	.	.	.	.
3.250	2.9050	31.66	VQ	.	.	.	.
3.333	3.1393	34.03	VQ	.	.	.	.
3.417	3.3867	35.92	VQ	.	.	.	.
3.500	3.6454	37.56	VQ	.	.	.	.
3.583	3.9154	39.20	VQ	.	.	.	.
3.667	4.1967	40.84	VQ	.	.	.	.
3.750	4.4893	42.49	VQ	.	.	.	.
3.833	4.7940	44.23	VQ	.	.	.	.
3.917	5.1125	46.25	V Q	.	.	.	.

4.000	5.4454	48.34	V Q	.	.	.	.
4.083	5.7947	50.72	V Q	.	.	.	.
4.167	6.1600	53.04	V Q	.	.	.	.
4.250	6.5380	54.89	V Q	.	.	.	.
4.333	6.9284	56.70	V Q	.	.	.	.
4.417	7.3314	58.51	V Q	.	.	.	.
4.500	7.7469	60.33	V Q	.	.	.	.
4.583	8.1754	62.23	V Q	.	.	.	.
4.667	8.6205	64.62	V Q	.	.	.	.
4.750	9.0822	67.04	V Q	.	.	.	.
4.833	9.5587	69.18	V Q	.	.	.	.
4.917	10.0504	71.40	V Q	.	.	.	.
5.000	10.5624	74.34	V Q	.	.	.	.
5.083	11.0938	77.17	V Q	.	.	.	.
5.167	11.6427	79.70	V Q	.	.	.	.
5.250	12.2059	81.78	V Q	.	.	.	.
5.333	12.7814	83.57	V Q	.	.	.	.
5.417	13.3703	85.51	V Q	.	.	.	.
5.500	13.9826	88.90	V Q	.	.	.	.
5.583	14.6161	91.97	V Q	.	.	.	.
5.667	15.2683	94.71	V Q	.	.	.	.
5.750	15.9410	97.67	V Q	.	.	.	.
5.833	16.6339	100.61	V Q	.	.	.	.
5.917	17.3462	103.43	V Q	.	.	.	.
6.000	18.0801	106.56	V Q	.	.	.	.
6.083	18.8379	110.03	V Q	.	.	.	.
6.167	19.6207	113.66	V Q	.	.	.	.
6.250	20.4214	116.26	V Q	.	.	.	.
6.333	21.2391	118.74	V Q	.	.	.	.
6.417	22.0740	121.22	V Q	.	.	.	.
6.500	22.9258	123.69	V Q	.	.	.	.
6.583	23.7939	126.04	.V Q	.	.	.	.
6.667	24.6782	128.40	.V Q	.	.	.	.
6.750	25.5807	131.04	.V Q	.	.	.	.
6.833	26.5023	133.82	.V Q	.	.	.	.
6.917	27.4444	136.79	.V Q	.	.	.	.
7.000	28.4090	140.06	.V Q	.	.	.	.
7.083	29.3985	143.68	.V Q	.	.	.	.
7.167	30.4087	146.68	.V Q	.	.	.	.
7.250	31.4382	149.48	.V Q	.	.	.	.
7.333	32.4850	152.00	.V Q	.	.	.	.
7.417	33.5491	154.50	.V Q	.	.	.	.
7.500	34.6298	156.93	.V Q	.	.	.	.
7.583	35.7277	159.41	.V Q	.	.	.	.
7.667	36.8452	162.26	.V Q	.	.	.	.
7.750	37.9818	165.04	.V Q	.	.	.	.
7.833	39.1344	167.36	.V Q	.	.	.	.
7.917	40.3027	169.64	.V Q	.	.	.	.
8.000	41.4876	172.05	.V Q	.	.	.	.
8.083	42.6898	174.55	.V Q	.	.	.	.
8.167	43.9089	177.02	.V Q	.	.	.	.
8.250	45.1448	179.44	.V Q	.	.	.	.
8.333	46.3970	181.82	.V Q	.	.	.	.
8.417	47.6631	183.84	. V Q	.	.	.	.
8.500	48.9428	185.81	. V Q	.	.	.	.
8.583	50.2362	187.79	. V Q	.	.	.	.
8.667	51.5433	189.79	. V Q	.	.	.	.
8.750	52.8642	191.79	. V Q	.	.	.	.

8.833	54.1990	193.81	. V	Q .	.	.	.
8.917	55.5479	195.87	. V	Q .	.	.	.
9.000	56.9114	197.99	. V	Q .	.	.	.
9.083	58.2896	200.11	. V	Q .	.	.	.
9.167	59.6823	202.22	. V	Q .	.	.	.
9.250	61.0889	204.23	. V	Q .	.	.	.
9.333	62.5094	206.26	. V	Q .	.	.	.
9.417	63.9440	208.30	. V	Q .	.	.	.
9.500	65.3921	210.27	. V	Q .	.	.	.
9.583	66.8537	212.22	. V	Q .	.	.	.
9.667	68.3289	214.19	. V	Q .	.	.	.
9.750	69.8175	216.15	. V	Q .	.	.	.
9.833	71.3187	217.98	. V	Q .	.	.	.
9.917	72.8323	219.77	. V	Q .	.	.	.
10.000	74.3584	221.59	. V	Q .	.	.	.
10.083	75.8971	223.42	. V	Q .	.	.	.
10.167	77.4482	225.22	. V	Q .	.	.	.
10.250	79.0108	226.88	. V	Q .	.	.	.
10.333	80.5848	228.55	. V	Q .	.	.	.
10.417	82.1704	230.23	. V	Q .	.	.	.
10.500	83.7677	231.93	. V	Q .	.	.	.
10.583	85.3768	233.64	. V	Q .	.	.	.
10.667	86.9978	235.36	. V	Q .	.	.	.
10.750	88.6303	237.05	. V	Q .	.	.	.
10.833	90.2746	238.74	. V	Q .	.	.	.
10.917	91.9305	240.44	. V	Q .	.	.	.
11.000	93.5983	242.17	. V	Q .	.	.	.
11.083	95.2782	243.91	. V	Q .	.	.	.
11.167	96.9701	245.67	. V	Q .	.	.	.
11.250	98.6742	247.44	. V	Q .	.	.	.
11.333	100.3904	249.19	. V	.Q	.	.	.
11.417	102.1187	250.95	. V	.Q	.	.	.
11.500	103.8593	252.73	. V	.Q	.	.	.
11.583	105.6122	254.52	. V	.Q	.	.	.
11.667	107.3776	256.34	. V	.Q	.	.	.
11.750	109.1558	258.18	. V	.Q	.	.	.
11.833	110.9467	260.04	. V	.Q	.	.	.
11.917	112.7503	261.88	. V	.Q	.	.	.
12.000	114.5658	263.62	. V	.Q	.	.	.
12.083	116.3954	265.65	. V	.Q	.	.	.
12.167	118.2411	268.00	. V	.Q	.	.	.
12.250	120.1032	270.37	. V	.Q	.	.	.
12.333	121.9818	272.77	. V	.Q	.	.	.
12.417	123.8770	275.18	. V	.Q	.	.	.
12.500	125.7890	277.63	. V	.Q	.	.	.
12.583	127.7180	280.09	. V	.Q	.	.	.
12.667	129.6641	282.57	. V	.Q	.	.	.
12.750	131.6275	285.09	. V	.Q	.	.	.
12.833	133.6084	287.62	. V	.Q	.	.	.
12.917	135.6063	290.10	. V	.Q	.	.	.
13.000	137.6211	292.55	. V	.Q	.	.	.
13.083	139.6530	295.03	. V	.Q	.	.	.
13.167	141.7035	297.73	. V	.Q	.	.	.
13.250	143.7736	300.57	. V	.Q	.	.	.
13.333	145.8634	303.44	. V	.Q	.	.	.
13.417	147.9732	306.34	. V	.Q	.	.	.
13.500	150.1031	309.27	. V	.Q	.	.	.
13.583	152.2534	312.23	. V	.Q	.	.	.

13.667	154.4244	315.22	. V	. Q	.	.	.
13.750	156.6162	318.25	. V	. Q	.	.	.
13.833	158.8303	321.50	. V	. Q	.	.	.
13.917	161.0707	325.30	. V	. Q	.	.	.
14.000	163.3377	329.18	. V	. Q	.	.	.
14.083	165.6337	333.37	. V	. Q	.	.	.
14.167	167.9607	337.88	. V	. Q	.	.	.
14.250	170.3209	342.71	. V	. Q	.	.	.
14.333	172.7159	347.76	. V	. Q	.	.	.
14.417	175.1457	352.80	. V	. Q	.	.	.
14.500	177.6102	357.85	. V	. Q	.	.	.
14.583	180.1123	363.29	. V	. Q	.	.	.
14.667	182.6522	368.80	. V	. Q	.	.	.
14.750	185.2296	374.24	. V	. Q	.	.	.
14.833	187.8439	379.60	. V	. Q	.	.	.
14.917	190.4952	384.96	. V	. Q	.	.	.
15.000	193.1835	390.34	. V	. Q	.	.	.
15.083	195.9089	395.73	. V	. Q	.	.	.
15.167	198.6728	401.33	. V	. Q	.	.	.
15.250	201.4812	407.78	. V	. Q	.	.	.
15.333	204.3393	414.99	. V	. Q	.	.	.
15.417	207.2384	420.95	. V	. Q	.	.	.
15.500	210.1729	426.09	. V	. Q	.	.	.
15.583	213.1433	431.30	. V	. Q	.	.	.
15.667	216.1503	436.61	. V	. Q	.	.	.
15.750	219.1936	441.88	. V	. Q	.	.	.
15.833	222.2752	447.46	. V	. Q	.	.	.
15.917	225.4042	454.33	. V	. Q	.	.	.
16.000	228.5847	461.81	. V	. Q	.	.	.
16.083	231.8332	471.68	. V	. Q	.	.	.
16.167	235.1462	481.05	. V	.Q	.	.	.
16.250	238.5059	487.82	. V	.Q	.	.	.
16.333	241.9123	494.61	. V	.Q	.	.	.
16.417	245.3670	501.62	. V	.Q	.	.	.
16.500	248.8714	508.85	. V	.Q	.	.	.
16.583	252.4285	516.49	. V	.Q	.	.	.
16.667	256.0450	525.10	. V	. Q	.	.	.
16.750	259.7204	533.68	. V	. Q	.	.	.
16.833	263.4505	541.60	. V	. Q	.	.	.
16.917	267.2357	549.62	. V	. Q	.	.	.
17.000	271.0860	559.06	. V	. Q	.	.	.
17.083	274.9994	568.22	. V	. Q	.	.	.
17.167	278.9761	577.42	. V	. Q	.	.	.
17.250	283.0055	585.07	. V	. Q	.	.	.
17.333	287.0835	592.13	. V	. Q	.	.	.
17.417	291.2057	598.54	. V	. Q	.	.	.
17.500	295.3874	607.18	. V	. Q	.	.	.
17.583	299.6213	614.76	. V	. Q	.	.	.
17.667	303.9030	621.70	. V	. Q	.	.	.
17.750	308.2391	629.60	. V	. Q	.	.	.
17.833	312.6399	639.00	. V	. Q	.	.	.
17.917	317.1145	649.71	. V	. Q	.	.	.
18.000	321.6432	657.57	. V	. Q	.	.	.
18.083	326.2319	666.27	. V	. Q	.	.	.
18.167	330.8825	675.27	. V	. Q	.	.	.
18.250	335.5915	683.74	. V	. Q	.	.	.
18.333	340.3509	691.06	. V	. Q	.	.	.
18.417	345.1537	697.38	. V	. Q	.	.	.

18.500	350.0064	704.61	.	.	V	.	.Q	.
18.583	354.9143	712.62	.	.	V	.	.Q	.
18.667	359.8593	718.01	.	.	V	.	.Q	.
18.750	364.8486	724.45	.	.	V	.	.Q	.
18.833	369.8836	731.08	.	.	V	.	.Q	.
18.917	374.9696	738.48	.	.	V	.	.Q	.
19.000	380.1171	747.41	.	.	V	.	.Q	.
19.083	385.3344	757.56	.	.	V	.	.Q	.
19.167	390.6144	766.66	.	.	V	.	.Q	.
19.250	395.9698	777.60	.	.	V	.	.Q	.
19.333	401.3769	785.11	.	.	V	.	.Q	.
19.417	406.7603	781.67	.	.	V	.	.Q	.
19.500	412.1577	783.71	.	.	V	.	.Q	.
19.583	417.5973	789.83	.	.	V	.	.Q	.
19.667	423.0878	797.22	.	.	V	.	.Q	.
19.750	428.6266	804.23	.	.	V	.	.Q	.
19.833	434.2111	810.87	.	.	V	.	.Q	.
19.917	439.8507	818.88	.	.	V	.	.Q	.
20.000	445.5237	823.71	.	.	V	.	.Q	.
20.083	451.2432	830.47	.	.	V	.	.Q	.
20.167	456.9807	833.09	.	.	V	.	.Q	.
20.250	462.6891	828.86	.	.	V	.	.Q	.
20.333	468.3824	826.67	.	.	V	.	.Q	.
20.417	474.0743	826.46	.	.	V	.	.Q	.
20.500	479.7793	828.36	.	.	V	.	.Q	.
20.583	485.5035	831.17	.	.	V	.	.Q	.
20.667	491.2712	837.47	.	.	V	.	.Q	.
20.750	497.0409	837.75	.	.	.V	.	.Q	.
20.833	502.7755	832.66	.	.	.V	.	.Q	.
20.917	508.5156	833.47	.	.	.V	.	.Q	.
21.000	514.3187	842.61	.	.	.V	.	.Q	.
21.083	520.1064	840.38	.	.	.V	.	.Q	.
21.167	525.8401	832.54	.	.	.V	.	.Q	.
21.250	531.5137	823.81	.	.	.V	.	.Q	.
21.333	537.1594	819.76	.	.	.V	.	.Q	.
21.417	542.8231	822.37	.	.	.V	.	.Q	.
21.500	548.5845	836.55	.	.	.V	.	.Q	.
21.583	554.3066	830.85	.	.	.V	.	.Q	.
21.667	559.9891	825.10	.	.	.V	.	.Q	.
21.750	565.6672	824.47	.	.	.V	.	.Q	.
21.833	571.3359	823.09	.	.	.V	.	.Q	.
21.917	576.9940	821.55	.	.	.V	.	.Q	.
22.000	582.6624	823.05	.	.	.V	.	.Q	.
22.083	588.3255	822.28	.	.	.V	.	.Q	.
22.167	593.9557	817.51	.	.	.V	.	.Q	.
22.250	599.4692	800.55	.	.	.V	.	.Q	.
22.333	604.9481	795.54	.	.	.V	.	.Q	.
22.417	610.3964	791.09	.	.	.V	.	.Q	.
22.500	615.8109	786.19	.	.	.V	.	.Q	.
22.583	621.1791	779.46	.	.	.V	.	.Q	.
22.667	626.5140	774.63	.	.	.V	.	.Q	.
22.750	631.8318	772.15	.	.	.V	.	.Q	.
22.833	637.1289	769.13	.	.	.V	.	.Q	.
22.917	642.4108	766.93	.	.	.V	.	.Q	.
23.000	647.6602	762.21	.	.	.V	.	.Q	.
23.083	652.8682	756.20	.	.	.V	.	.Q	.
23.167	657.9679	740.48	.	.	.V	.	.Q	.
23.250	663.0121	732.41	.	.	.V	.	.Q	.

23.333	668.0034	724.74	.	.	.	.	V . Q	.
23.417	672.9683	720.90	.	.	.	.	V . Q	.
23.500	677.8843	713.81	.	.	.	.	V . Q	.
23.583	682.7681	709.12	.	.	.	.	V . Q	.
23.667	687.6361	706.84	.	.	.	.	V . Q	.
23.750	692.4467	698.50	.	.	.	.	V . Q	.
23.833	697.1683	685.58	.	.	.	.	VQ	.
23.917	701.8384	678.09	.	.	.	.	VQ	.
24.000	706.4645	671.72	.	.	.	.	QV	.
24.083	711.0330	663.33	.	.	.	.	QV	.
24.167	715.5287	652.78	.	.	.	.	QV	.
24.250	719.9584	643.19	.	.	.	.	Q V	.
24.333	724.3241	633.89	.	.	.	.	Q V	.
24.417	728.6066	621.83	.	.	.	.	Q V	.
24.500	732.8349	613.94	.	.	.	.	Q .V	.
24.583	737.0162	607.13	.	.	.	.	Q .V	.
24.667	741.1469	599.77	.	.	.	.	Q .V	.
24.750	745.2183	591.17	.	.	.	.	Q .V	.
24.833	749.2355	583.29	.	.	.	.	Q .V	.
24.917	753.1984	575.42	.	.	.	.	Q .V	.
25.000	757.1015	566.72	.	.	.	.	Q .V	.
25.083	760.9344	556.53	.	.	.	.	Q .V	.
25.167	764.7030	547.20	.	.	.	.	Q .V	.
25.250	768.4074	537.88	.	.	.	.	Q .V	.
25.333	772.0587	530.16	.	.	.	.	Q .V	.
25.417	775.6606	523.00	.	.	.	.	Q .V	.
25.500	779.2109	515.50	.	.	.	.	Q .V	.
25.583	782.7147	508.76	.	.	.	.	Q .V	.
25.667	786.1688	501.53	.	.	.	.	Q .V	.
25.750	789.5707	493.95	.	.	.	.	Q .V	.
25.833	792.9153	485.63	.	.	.	.	Q .V	.
25.917	796.2109	478.52	.	.	.	.	Q .V	.
26.000	799.4566	471.28	.	.	.	.	Q .V	.
26.083	802.6507	463.78	.	.	.	.	Q .V	.
26.167	805.7874	455.45	.	.	.	.	Q .V	.
26.250	808.8599	446.13	.	.	.	.	Q .V	.
26.333	811.8801	438.54	.	.	.	.	Q .V	.
26.417	814.8540	431.81	.	.	.	.	Q .V	.
26.500	817.7811	425.02	.	.	.	.	Q .V	.
26.583	820.6575	417.64	.	.	.	.	Q .V	.
26.667	823.4823	410.17	.	.	.	.	Q .V	.
26.750	826.2530	402.31	.	.	.	.	Q .V	.
26.833	828.9753	395.27	.	.	.	.	Q .V	.
26.917	831.6495	388.30	.	.	.	.	Q .V	.
27.000	834.2750	381.22	.	.	.	.	Q .V	.
27.083	836.8513	374.08	.	.	.	.	Q .V	.
27.167	839.3788	366.99	.	.	.	.	Q .V	.
27.250	841.8579	359.97	.	.	.	.	Q .V	.
27.333	844.2855	352.48	.	.	.	.	Q .V	.
27.417	846.6684	346.00	.	.	.	.	Q .V	.
27.500	849.0101	340.02	.	.	.	.	Q .V	.
27.583	851.3114	334.15	.	.	.	.	Q .V	.
27.667	853.5726	328.32	.	.	.	.	Q .V	.
27.750	855.7937	322.51	.	.	.	.	Q .V	.
27.833	857.9752	316.75	.	.	.	.	Q .V	.
27.917	860.1109	310.11	.	.	.	.	Q .V	.
28.000	862.1960	302.76	.	.	.	.	Q .V	.
28.083	864.2389	296.62	.	.	.	.	Q .V	.



28.167	866.2420	290.85	.	.	Q	.	.	V	.
28.250	868.2120	286.05	.	.	Q	.	.	V	.
28.333	870.1488	281.22	.	.	Q	.	.	V	.
28.417	872.0521	276.36	.	.	Q	.	.	V	.
28.500	873.9204	271.27	.	.	Q	.	.	V	.
28.583	875.7533	266.13	.	.	Q	.	.	V	.
28.667	877.5476	260.54	.	.	Q	.	.	V	.
28.750	879.3033	254.92	.	.	Q	.	.	V	.
28.833	881.0208	249.39	.	.	Q	.	.	V	.
28.917	882.6943	242.99	.	.	Q	.	.	V	.
29.000	884.3246	236.72	.	.	Q	.	.	V	.
29.083	885.9173	231.26	.	.	Q	.	.	V	.
29.167	887.4750	226.17	.	.	Q	.	.	V	.
29.250	889.0004	221.49	.	.	Q	.	.	V	.
29.333	890.4954	217.07	.	.	Q	.	.	V	.
29.417	891.9594	212.58	.	.	Q	.	.	V	.
29.500	893.3824	206.63	.	.	Q	.	.	V	.
29.583	894.7675	201.11	.	.	Q	.	.	V	.
29.667	896.1168	195.91	.	.	Q	.	.	V	.
29.750	897.4296	190.62	.	.	Q	.	.	V	.
29.833	898.7080	185.62	.	.	Q	.	.	V	.
29.917	899.9554	181.13	.	.	Q	.	.	V	.
30.000	901.1718	176.61	.	.	Q	.	.	V	.
30.083	902.3551	171.82	.	.	Q	.	.	V	.
30.167	903.5050	166.97	.	.	Q	.	.	V	.
30.250	904.6287	163.16	.	.	Q	.	.	V	.
30.333	905.7260	159.31	.	.	Q	.	.	V	.
30.417	906.7946	155.16	.	.	Q	.	.	V	.
30.500	907.8270	149.91	.	.	Q	.	.	V	.
30.583	908.8329	146.06	.	.	Q	.	.	V	.
30.667	909.8154	142.66	.	.	Q	.	.	V	.
30.750	910.7728	139.01	.	.	Q	.	.	V	.
30.833	911.7027	135.03	.	.	Q	.	.	V	.
30.917	912.6047	130.96	.	.	Q	.	.	V	.
31.000	913.4776	126.74	.	.	Q	.	.	V	.
31.083	914.3187	122.12	.	.	Q	.	.	V	.
31.167	915.1329	118.23	.	.	Q	.	.	V	.
31.250	915.9215	114.51	.	.	Q	.	.	V	.
31.333	916.6865	111.08	.	.	Q	.	.	V	.
31.417	917.4289	107.79	.	.	Q	.	.	V	.
31.500	918.1502	104.73	.	.	Q	.	.	V	.
31.583	918.8514	101.81	.	.	Q	.	.	V	.
31.667	919.5297	98.48	.	.	Q	.	.	V	.
31.750	920.1860	95.30	.	.	Q	.	.	V	.
31.833	920.8239	92.63	.	.	Q	.	.	V	.
31.917	921.4436	89.98	.	.	Q	.	.	V	.
32.000	922.0447	87.28	.	.	Q	.	.	V	.
32.083	922.6267	84.51	.	.	Q	.	.	V	.
32.167	923.1901	81.80	.	.	Q	.	.	V	.
32.250	923.7354	79.19	.	.	Q	.	.	V	.
32.333	924.2632	76.64	.	.	Q	.	.	V	.
32.417	924.7766	74.54	.	.	Q	.	.	V	.
32.500	925.2772	72.68	.	.	Q	.	.	V	.
32.583	925.7658	70.95	.	.	Q	.	.	V	.
32.667	926.2425	69.22	.	.	Q	.	.	V	.
32.750	926.7073	67.50	.	.	Q	.	.	V	.
32.833	927.1603	65.77	.	.	Q	.	.	V	.
32.917	927.6019	64.12	.	.	Q	.	.	V	.

33.000	928.0309	62.30	.	Q	.	.	.	V	.
33.083	928.4483	60.61	.	Q	.	.	.	V	.
33.167	928.8535	58.84	.	Q	.	.	.	V	.
33.250	929.2479	57.26	.	Q	.	.	.	V	.
33.333	929.6305	55.56	.	Q	.	.	.	V	.
33.417	930.0024	54.00	.	Q	.	.	.	V	.
33.500	930.3633	52.41	.	Q	.	.	.	V	.
33.583	930.7141	50.93	.	Q	.	.	.	V	.
33.667	931.0551	49.51	.	Q	.	.	.	V	.
33.750	931.3856	48.00	.	Q	.	.	.	V	.
33.833	931.7073	46.71	.	Q	.	.	.	V	.
33.917	932.0204	45.47	.	Q	.	.	.	V	.
34.000	932.3252	44.25	.	Q	.	.	.	V	.
34.083	932.6215	43.02	.	Q	.	.	.	V	.
34.167	932.9097	41.85	.	Q	.	.	.	V	.
34.250	933.1909	40.83	.	Q	.	.	.	V	.
34.333	933.4653	39.83	.	Q	.	.	.	V	.
34.417	933.7327	38.83	.	Q	.	.	.	V	.
34.500	933.9934	37.85	.	Q	.	.	.	V	.
34.583	934.2473	36.87	.	Q	.	.	.	V	.
34.667	934.4945	35.89	.	Q	.	.	.	V	.
34.750	934.7354	34.98	.	Q	.	.	.	V	.
34.833	934.9702	34.09	.	Q	.	.	.	V	.
34.917	935.1987	33.19	.	Q	.	.	.	V	.
35.000	935.4212	32.31	.	Q	.	.	.	V	.
35.083	935.6376	31.42	.	Q	.	.	.	V	.
35.167	935.8475	30.48	.	Q	.	.	.	V	.
35.250	936.0507	29.51	.	Q	.	.	.	V	.
35.333	936.2477	28.61	.	Q	.	.	.	V	.
35.417	936.4385	27.71	.	Q	.	.	.	V	.
35.500	936.6233	26.82	.	Q	.	.	.	V	.
35.583	936.8020	25.95	.	Q	.	.	.	V	.
35.667	936.9746	25.06	.	Q	.	.	.	V	.
35.750	937.1413	24.20	.	Q	.	.	.	V	.
35.833	937.3021	23.34	.	Q	.	.	.	V	.
35.917	937.4573	22.54	.	Q	.	.	.	V	.
36.000	937.6078	21.86	Q	.	.	.	.	V	.

-----  
TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
(Note: 100% of Peak Flow Rate estimate assumed to have  
an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
0%	2165.0
10%	1605.0
20%	1335.0
30%	1035.0
40%	805.0
50%	665.0
60%	550.0
70%	450.0
80%	350.0
90%	235.0

-----  
END OF FLOODSCx ROUTING ANALYSIS



\*\*\*\*\*

FLOOD ROUTING ANALYSIS
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)
(c) Copyright 1989-2013 Advanced Engineering Software (aes)
Ver. 20.0 Release Date: 06/01/2013 License ID 1237

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*
\* RMV PA-3 ROMP AMENDMENT 2022 - NODE 134T \*
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*
\* 2-YR EV OCT 2022 ROKAMOTO \*

FILE NAME: EVO234TS.DAT
TIME/DATE OF STUDY: 13:45 10/25/2022

\*\*\*\*\*

FLOW PROCESS FROM NODE 13500.00 TO NODE 134.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<

\*\*\*\*\*

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 3859.700 ACRES
BASEFLOW = 0.000 CFS/SQUARE-MILE
\*USER ENTERED "LAG" TIME = 2.991 HOURS
VALLEY (DEVELOPED) S-GRAPH SELECTED
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.567
LOW LOSS FRACTION = 0.908
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.13
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.28
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 0.37
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 0.62
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 0.85
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 1.44

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:
5-MINUTE FACTOR = 0.828
30-MINUTE FACTOR = 0.828
1-HOUR FACTOR = 0.828
3-HOUR FACTOR = 0.974
6-HOUR FACTOR = 0.987
24-HOUR FACTOR = 0.992

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 2.786

UNIT HYDROGRAPH DETERMINATION

Table with 3 columns: INTERVAL NUMBER, "S" GRAPH MEAN VALUES, UNIT HYDROGRAPH ORDINATES (CFS). Rows 1-48.

49	75.739	790.487
50	77.073	622.620
51	78.311	578.079
52	79.550	578.282
53	80.834	599.390
54	82.119	599.878
55	83.303	552.598
56	84.430	526.170
57	85.492	495.579
58	86.447	445.839
59	87.304	400.112
60	88.114	377.858
61	88.779	310.535
62	89.435	306.034
63	90.076	299.488
64	90.667	275.931
65	91.254	273.723
66	91.839	273.064
67	92.386	255.560
68	92.917	247.708
69	93.447	247.708
70	93.960	239.036
71	94.339	177.191
72	94.693	165.246
73	95.047	165.083
74	95.401	165.086
75	95.755	165.246
76	96.064	144.630
77	96.285	103.077
78	96.504	102.091
79	96.722	101.931
80	96.941	102.094
81	97.159	101.927
82	97.378	101.931
83	97.596	102.094
84	97.815	102.091
85	97.998	85.243
86	98.060	29.124
87	98.112	24.377
88	98.165	24.377
89	98.217	24.380
90	98.269	24.541
91	98.321	24.049
92	98.374	24.544
93	98.426	24.541
94	98.478	24.213
95	98.530	24.377
96	98.583	24.544
97	98.635	24.377
98	98.687	24.213
99	98.739	24.544
100	98.791	24.213
101	98.844	24.541
102	98.896	24.217
103	98.948	24.541
104	99.000	24.213
105	99.052	24.213
106	99.104	24.213

107	99.156	24.213
108	99.208	24.213
109	99.260	24.213
110	99.311	24.213
111	99.363	24.213
112	99.415	24.213
113	99.467	24.213
114	99.519	24.213
115	99.571	24.213
116	99.623	24.213
117	99.675	24.213
118	99.726	24.213
119	99.778	24.213
120	99.830	24.213
121	99.882	24.213
122	99.934	24.213
123	99.986	24.213
124	100.000	6.628

-----  
TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 401.0648  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 58.4774  
-----

2 4 - 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 FIVE-MINUTE UNIT INTERVALS(CFS)

(Note: Time indicated is at END of Each Unit Intervals)

TIME(HRS)	VOLUME(AF)	Q(CFS)	0.	50.0	100.0	150.0	200.0
0.083	0.0001	0.01	Q	.	.	.	.
0.167	0.0004	0.04	Q	.	.	.	.
0.250	0.0008	0.07	Q	.	.	.	.
0.333	0.0014	0.09	Q	.	.	.	.
0.417	0.0023	0.12	Q	.	.	.	.
0.500	0.0032	0.14	Q	.	.	.	.
0.583	0.0044	0.17	Q	.	.	.	.
0.667	0.0059	0.21	Q	.	.	.	.
0.750	0.0077	0.25	Q	.	.	.	.
0.833	0.0097	0.30	Q	.	.	.	.
0.917	0.0121	0.34	Q	.	.	.	.
1.000	0.0149	0.41	Q	.	.	.	.
1.083	0.0183	0.49	Q	.	.	.	.
1.167	0.0223	0.58	Q	.	.	.	.
1.250	0.0270	0.68	Q	.	.	.	.
1.333	0.0325	0.81	Q	.	.	.	.
1.417	0.0389	0.93	Q	.	.	.	.
1.500	0.0461	1.04	Q	.	.	.	.
1.583	0.0541	1.17	Q	.	.	.	.
1.667	0.0633	1.33	Q	.	.	.	.
1.750	0.0734	1.47	Q	.	.	.	.
1.833	0.0844	1.59	Q	.	.	.	.
1.917	0.0963	1.73	Q	.	.	.	.
2.000	0.1093	1.90	Q	.	.	.	.
2.083	0.1235	2.06	Q	.	.	.	.
2.167	0.1387	2.20	Q	.	.	.	.
2.250	0.1548	2.34	Q	.	.	.	.
2.333	0.1722	2.52	Q	.	.	.	.
2.417	0.1907	2.69	Q	.	.	.	.
2.500	0.2107	2.90	Q	.	.	.	.
2.583	0.2319	3.08	Q	.	.	.	.
2.667	0.2542	3.23	Q	.	.	.	.
2.750	0.2780	3.46	Q	.	.	.	.
2.833	0.3033	3.68	Q	.	.	.	.
2.917	0.3301	3.90	Q	.	.	.	.
3.000	0.3587	4.15	Q	.	.	.	.
3.083	0.3888	4.37	Q	.	.	.	.
3.167	0.4202	4.55	Q	.	.	.	.
3.250	0.4527	4.72	Q	.	.	.	.
3.333	0.4865	4.91	Q	.	.	.	.
3.417	0.5218	5.13	VQ	.	.	.	.
3.500	0.5588	5.38	VQ	.	.	.	.
3.583	0.5972	5.58	VQ	.	.	.	.
3.667	0.6368	5.75	VQ	.	.	.	.
3.750	0.6777	5.93	VQ	.	.	.	.
3.833	0.7198	6.12	VQ	.	.	.	.
3.917	0.7630	6.28	VQ	.	.	.	.

4.000	0.8074	6.44	VQ	.	.	.	.
4.083	0.8529	6.61	VQ	.	.	.	.
4.167	0.8993	6.74	VQ	.	.	.	.
4.250	0.9466	6.86	VQ	.	.	.	.
4.333	0.9948	6.99	VQ	.	.	.	.
4.417	1.0438	7.12	VQ	.	.	.	.
4.500	1.0937	7.25	VQ	.	.	.	.
4.583	1.1445	7.38	VQ	.	.	.	.
4.667	1.1962	7.50	VQ	.	.	.	.
4.750	1.2486	7.61	VQ	.	.	.	.
4.833	1.3017	7.72	VQ	.	.	.	.
4.917	1.3556	7.82	VQ	.	.	.	.
5.000	1.4100	7.91	VQ	.	.	.	.
5.083	1.4651	8.00	.Q	.	.	.	.
5.167	1.5207	8.08	.Q	.	.	.	.
5.250	1.5770	8.16	.Q	.	.	.	.
5.333	1.6337	8.24	.Q	.	.	.	.
5.417	1.6910	8.32	.Q	.	.	.	.
5.500	1.7489	8.40	.Q	.	.	.	.
5.583	1.8073	8.48	.Q	.	.	.	.
5.667	1.8662	8.56	.Q	.	.	.	.
5.750	1.9257	8.63	.Q	.	.	.	.
5.833	1.9857	8.71	.Q	.	.	.	.
5.917	2.0461	8.78	.Q	.	.	.	.
6.000	2.1070	8.84	.Q	.	.	.	.
6.083	2.1683	8.90	.Q	.	.	.	.
6.167	2.2301	8.97	.Q	.	.	.	.
6.250	2.2923	9.03	.Q	.	.	.	.
6.333	2.3550	9.10	.Q	.	.	.	.
6.417	2.4180	9.15	.Q	.	.	.	.
6.500	2.4814	9.21	.Q	.	.	.	.
6.583	2.5452	9.26	.Q	.	.	.	.
6.667	2.6094	9.32	.Q	.	.	.	.
6.750	2.6740	9.38	.Q	.	.	.	.
6.833	2.7390	9.44	.Q	.	.	.	.
6.917	2.8044	9.50	.Q	.	.	.	.
7.000	2.8702	9.55	.Q	.	.	.	.
7.083	2.9364	9.61	.QV	.	.	.	.
7.167	3.0029	9.66	.QV	.	.	.	.
7.250	3.0697	9.70	.QV	.	.	.	.
7.333	3.1369	9.75	.QV	.	.	.	.
7.417	3.2044	9.80	.QV	.	.	.	.
7.500	3.2722	9.85	.QV	.	.	.	.
7.583	3.3404	9.90	.QV	.	.	.	.
7.667	3.4089	9.95	.QV	.	.	.	.
7.750	3.4777	10.00	.QV	.	.	.	.
7.833	3.5469	10.05	.Q	.	.	.	.
7.917	3.6165	10.10	.Q	.	.	.	.
8.000	3.6864	10.15	.Q	.	.	.	.
8.083	3.7566	10.20	.Q	.	.	.	.
8.167	3.8273	10.26	.Q	.	.	.	.
8.250	3.8983	10.31	.Q	.	.	.	.
8.333	3.9697	10.36	.Q	.	.	.	.
8.417	4.0414	10.42	.Q	.	.	.	.
8.500	4.1136	10.48	.Q	.	.	.	.
8.583	4.1861	10.53	.Q	.	.	.	.
8.667	4.2590	10.59	.Q	.	.	.	.
8.750	4.3324	10.65	.Q	.	.	.	.

8.833	4.4061	10.71	. QV	.	.	.	.
8.917	4.4802	10.76	. QV	.	.	.	.
9.000	4.5548	10.83	. QV	.	.	.	.
9.083	4.6298	10.89	. QV	.	.	.	.
9.167	4.7051	10.95	. QV	.	.	.	.
9.250	4.7810	11.01	. QV	.	.	.	.
9.333	4.8572	11.07	. QV	.	.	.	.
9.417	4.9340	11.14	. QV	.	.	.	.
9.500	5.0111	11.20	. QV	.	.	.	.
9.583	5.0887	11.27	. QV	.	.	.	.
9.667	5.1668	11.34	. QV	.	.	.	.
9.750	5.2454	11.40	. QV	.	.	.	.
9.833	5.3244	11.47	. QV	.	.	.	.
9.917	5.4039	11.54	. QV	.	.	.	.
10.000	5.4839	11.62	. QV	.	.	.	.
10.083	5.5644	11.69	. QV	.	.	.	.
10.167	5.6454	11.76	. QV	.	.	.	.
10.250	5.7269	11.83	. QV	.	.	.	.
10.333	5.8089	11.91	. QV	.	.	.	.
10.417	5.8914	11.98	. Q V	.	.	.	.
10.500	5.9744	12.05	. Q V	.	.	.	.
10.583	6.0579	12.13	. Q V	.	.	.	.
10.667	6.1420	12.21	. Q V	.	.	.	.
10.750	6.2266	12.28	. Q V	.	.	.	.
10.833	6.3117	12.36	. Q V	.	.	.	.
10.917	6.3974	12.44	. Q V	.	.	.	.
11.000	6.4836	12.52	. Q V	.	.	.	.
11.083	6.5705	12.61	. Q V	.	.	.	.
11.167	6.6579	12.69	. Q V	.	.	.	.
11.250	6.7459	12.78	. Q V	.	.	.	.
11.333	6.8345	12.87	. Q V	.	.	.	.
11.417	6.9237	12.95	. Q V	.	.	.	.
11.500	7.0135	13.05	. Q V	.	.	.	.
11.583	7.1040	13.14	. Q V	.	.	.	.
11.667	7.1952	13.23	. Q V	.	.	.	.
11.750	7.2870	13.33	. Q V	.	.	.	.
11.833	7.3794	13.43	. Q V	.	.	.	.
11.917	7.4726	13.53	. Q V	.	.	.	.
12.000	7.5665	13.63	. Q V	.	.	.	.
12.083	7.6612	13.74	. Q V	.	.	.	.
12.167	7.7567	13.87	. Q V	.	.	.	.
12.250	7.8530	13.99	. Q V	.	.	.	.
12.333	7.9502	14.12	. Q V	.	.	.	.
12.417	8.0483	14.24	. Q V	.	.	.	.
12.500	8.1473	14.38	. Q V	.	.	.	.
12.583	8.2473	14.51	. Q V	.	.	.	.
12.667	8.3482	14.66	. Q V	.	.	.	.
12.750	8.4502	14.80	. Q V	.	.	.	.
12.833	8.5532	14.96	. Q V	.	.	.	.
12.917	8.6573	15.11	. Q V	.	.	.	.
13.000	8.7626	15.29	. Q V	.	.	.	.
13.083	8.8691	15.47	. Q V	.	.	.	.
13.167	8.9770	15.66	. Q V	.	.	.	.
13.250	9.0862	15.86	. Q V	.	.	.	.
13.333	9.1969	16.08	. Q V	.	.	.	.
13.417	9.3092	16.30	. Q V	.	.	.	.
13.500	9.4230	16.52	. Q V	.	.	.	.
13.583	9.5384	16.75	. Q V	.	.	.	.

13.667	9.6555	17.01	. Q V	.	.	.	.
13.750	9.7744	17.26	. Q V	.	.	.	.
13.833	9.8949	17.50	. Q V	.	.	.	.
13.917	10.0172	17.76	. Q V	.	.	.	.
14.000	10.1415	18.04	. Q V	.	.	.	.
14.083	10.2679	18.35	. Q V	.	.	.	.
14.167	10.3964	18.66	. Q V	.	.	.	.
14.250	10.5271	18.98	. Q V	.	.	.	.
14.333	10.6601	19.32	. Q V	.	.	.	.
14.417	10.7956	19.67	. Q V	.	.	.	.
14.500	10.9338	20.05	. Q V	.	.	.	.
14.583	11.0744	20.43	. Q V	.	.	.	.
14.667	11.2178	20.81	. Q V	.	.	.	.
14.750	11.3641	21.25	. Q V	.	.	.	.
14.833	11.5135	21.69	. Q V	.	.	.	.
14.917	11.6660	22.15	. Q V	.	.	.	.
15.000	11.8221	22.67	. Q V	.	.	.	.
15.083	11.9818	23.19	. Q V	.	.	.	.
15.167	12.1452	23.73	. Q V	.	.	.	.
15.250	12.3125	24.29	. Q V	.	.	.	.
15.333	12.4840	24.90	. Q V	.	.	.	.
15.417	12.6596	25.50	. Q V	.	.	.	.
15.500	12.8394	26.10	. Q V	.	.	.	.
15.583	13.0233	26.71	. Q V	.	.	.	.
15.667	13.2120	27.40	. Q V	.	.	.	.
15.750	13.4054	28.08	. Q V	.	.	.	.
15.833	13.6040	28.83	. Q V	.	.	.	.
15.917	13.8081	29.64	. Q V	.	.	.	.
16.000	14.0189	30.61	. Q V	.	.	.	.
16.083	14.2662	35.90	. Q V	.	.	.	.
16.167	14.5490	41.06	. QV	.	.	.	.
16.250	14.8373	41.86	. Q V	.	.	.	.
16.333	15.1307	42.61	. Q V	.	.	.	.
16.417	15.4295	43.39	. Q V	.	.	.	.
16.500	15.7346	44.30	. Q V	.	.	.	.
16.583	16.0539	46.35	. QV	.	.	.	.
16.667	16.4005	50.33	. QV	.	.	.	.
16.750	16.7550	51.47	. QV	.	.	.	.
16.833	17.1170	52.57	. QV	.	.	.	.
16.917	17.5007	55.71	. Q	.	.	.	.
17.000	17.9484	65.01	. VQ	.	.	.	.
17.083	18.4140	67.61	. VQ	.	.	.	.
17.167	18.9253	74.24	. V Q	.	.	.	.
17.250	19.4666	78.60	. V Q	.	.	.	.
17.333	20.0552	85.47	. V Q	.	.	.	.
17.417	20.6405	84.99	. V Q	.	.	.	.
17.500	21.2284	85.37	. V Q	.	.	.	.
17.583	21.8371	88.38	. V Q	.	.	.	.
17.667	22.5454	102.84	. V Q	.	.	.	.
17.750	23.1794	92.06	. V Q	.	.	.	.
17.833	23.8013	90.29	. V Q	.	.	.	.
17.917	24.4519	94.47	. V Q	.	.	.	.
18.000	25.1709	104.41	. V Q	.	.	.	.
18.083	25.8943	105.03	. V .Q	.	.	.	.
18.167	26.5480	94.92	. Q	.	.	.	.
18.250	27.2104	96.18	. VQ	.	.	.	.
18.333	27.9538	107.94	. V.Q	.	.	.	.
18.417	28.6861	106.33	. V.Q	.	.	.	.

18.500	29.5119	119.91	.	.	V	Q	.	.
18.583	30.2570	108.20	.	.	VQ	.	.	.
18.667	30.9370	98.73	.	.	Q.V	.	.	.
18.750	31.8119	127.04	.	.	.V	Q	.	.
18.833	32.6436	120.77	.	.	.V	Q	.	.
18.917	33.4782	121.18	.	.	.V	Q	.	.
19.000	34.3808	131.06	.	.	.V	Q	.	.
19.083	35.2117	120.64	.	.	.Q	.	.	.
19.167	35.9392	105.63	.	.	.Q	V	.	.
19.250	36.6450	102.48	.	.	Q	V	.	.
19.333	37.3774	106.34	.	.	.Q	V	.	.
19.417	38.1756	115.90	.	.	.Q	V	.	.
19.500	39.0380	125.23	.	.	.	QV	.	.
19.583	39.7822	108.05	.	.	.Q	V	.	.
19.667	40.4587	98.23	.	.	Q.	V	.	.
19.750	41.1379	98.62	.	.	Q.	V	.	.
19.833	41.8236	99.56	.	.	Q.	V	.	.
19.917	42.4368	89.03	.	.	Q	.	V.	.
20.000	43.0632	90.96	.	.	Q	.	V.	.
20.083	43.6631	87.11	.	.	Q	.	V.	.
20.167	44.1889	76.33	.	.	Q	.	V	.
20.250	44.6901	72.78	.	.	Q	.	V	.
20.333	45.1856	71.95	.	.	Q	.	V	.
20.417	45.6835	72.30	.	.	Q	.	.V	.
20.500	46.1741	71.24	.	.	Q	.	.V	.
20.583	46.6388	67.46	.	.	Q	.	.V	.
20.667	47.0858	64.92	.	.	Q	.	.V	.
20.750	47.5133	62.07	.	.	Q	.	.V	.
20.833	47.9137	58.13	.	.	.Q	.	.V	.
20.917	48.2889	54.48	.	.	Q	.	.V	.
21.000	48.6482	52.18	.	.	Q	.	.V	.
21.083	48.9746	47.38	.	.	Q.	.	.V	.
21.167	49.2934	46.30	.	.	Q.	.	.V	.
21.250	49.6046	45.17	.	.	Q.	.	.V	.
21.333	49.9014	43.11	.	.	Q	.	.V	.
21.417	50.1923	42.24	.	.	Q	.	.V	.
21.500	50.4777	41.44	.	.	Q	.	.V	.
21.583	50.7513	39.72	.	.	Q	.	.V	.
21.667	51.0171	38.59	.	.	Q	.	.V	.
21.750	51.2781	37.91	.	.	Q	.	.V	.
21.833	51.5308	36.69	.	.	Q	.	.V	.
21.917	51.7545	32.48	.	.	Q	.	.V	.
22.000	51.9693	31.19	.	.	Q	.	.V	.
22.083	52.1804	30.65	.	.	Q	.	.V	.
22.167	52.3879	30.14	.	.	Q	.	.V	.
22.250	52.5917	29.59	.	.	Q	.	.V	.
22.333	52.7833	27.82	.	.	Q	.	.V	.
22.417	52.9549	24.92	.	.	Q	.	.V	.
22.500	53.1231	24.42	.	.	Q	.	.V	.
22.583	53.2886	24.03	.	.	Q	.	.V	.
22.667	53.4515	23.66	.	.	Q	.	.V	.
22.750	53.6118	23.27	.	.	Q	.	.V	.
22.833	53.7694	22.88	.	.	Q	.	.V	.
22.917	53.9244	22.51	.	.	Q	.	.V	.
23.000	54.0764	22.08	.	.	Q	.	.V	.
23.083	54.2187	20.66	.	.	Q	.	.V	.
23.167	54.3360	17.03	.	.	Q	.	.V	.
23.250	54.4491	16.42	.	.	Q	.	.V	.

23.333	54.5603	16.15	.	Q	.	.	.	V	.
23.417	54.6698	15.90	.	Q	.	.	.	V	.
23.500	54.7776	15.65	.	Q	.	.	.	V	.
23.583	54.8835	15.38	.	Q	.	.	.	V	.
23.667	54.9880	15.18	.	Q	.	.	.	V	.
23.750	55.0911	14.96	.	Q	.	.	.	V	.
23.833	55.1925	14.73	.	Q	.	.	.	V	.
23.917	55.2926	14.54	.	Q	.	.	.	V	.
24.000	55.3915	14.36	.	Q	.	.	.	V	.
24.083	55.4889	14.15	.	Q	.	.	.	V	.
24.167	55.5851	13.95	.	Q	.	.	.	V	.
24.250	55.6800	13.79	.	Q	.	.	.	V	.
24.333	55.7736	13.59	.	Q	.	.	.	V	.
24.417	55.8662	13.44	.	Q	.	.	.	V	.
24.500	55.9574	13.25	.	Q	.	.	.	V	.
24.583	56.0476	13.10	.	Q	.	.	.	V	.
24.667	56.1365	12.90	.	Q	.	.	.	V	.
24.750	56.2242	12.73	.	Q	.	.	.	V	.
24.833	56.3107	12.56	.	Q	.	.	.	V	.
24.917	56.3960	12.39	.	Q	.	.	.	V	.
25.000	56.4800	12.19	.	Q	.	.	.	V	.
25.083	56.5626	12.00	.	Q	.	.	.	V	.
25.167	56.6439	11.80	.	Q	.	.	.	V	.
25.250	56.7236	11.58	.	Q	.	.	.	V	.
25.333	56.8019	11.36	.	Q	.	.	.	V	.
25.417	56.8785	11.14	.	Q	.	.	.	V	.
25.500	56.9537	10.92	.	Q	.	.	.	V	.
25.583	57.0274	10.69	.	Q	.	.	.	V	.
25.667	57.0993	10.44	.	Q	.	.	.	V	.
25.750	57.1697	10.22	.	Q	.	.	.	V	.
25.833	57.2386	10.01	.	Q	.	.	.	V	.
25.917	57.3060	9.79	.	Q	.	.	.	V	.
26.000	57.3717	9.54	.	Q	.	.	.	V	.
26.083	57.4356	9.28	.	Q	.	.	.	V	.
26.167	57.4978	9.04	.	Q	.	.	.	V	.
26.250	57.5583	8.78	.	Q	.	.	.	V	.
26.333	57.6098	7.48	.	Q	.	.	.	V	.
26.417	57.6569	6.83	.	Q	.	.	.	V	.
26.500	57.7020	6.55	.	Q	.	.	.	V	.
26.583	57.7454	6.31	.	Q	.	.	.	V	.
26.667	57.7875	6.10	.	Q	.	.	.	V	.
26.750	57.8275	5.81	.	Q	.	.	.	V	.
26.833	57.8656	5.54	.	Q	.	.	.	V	.
26.917	57.9019	5.27	.	Q	.	.	.	V	.
27.000	57.9362	4.98	.	Q	.	.	.	V	.
27.083	57.9687	4.71	.	Q	.	.	.	V	.
27.167	57.9997	4.50	.	Q	.	.	.	V	.
27.250	58.0292	4.29	.	Q	.	.	.	V	.
27.333	58.0573	4.08	.	Q	.	.	.	V	.
27.417	58.0837	3.84	.	Q	.	.	.	V	.
27.500	58.1083	3.57	.	Q	.	.	.	V	.
27.583	58.1314	3.36	.	Q	.	.	.	V	.
27.667	58.1533	3.17	.	Q	.	.	.	V	.
27.750	58.1738	2.98	.	Q	.	.	.	V	.
27.833	58.1930	2.79	.	Q	.	.	.	V	.
27.917	58.2110	2.62	.	Q	.	.	.	V	.
28.000	58.2279	2.45	.	Q	.	.	.	V	.
28.083	58.2437	2.29	.	Q	.	.	.	V	.

28.167	58.2586	2.16	Q	.	.	.	V.
28.250	58.2726	2.04	Q	.	.	.	V.
28.333	58.2858	1.92	Q	.	.	.	V.
28.417	58.2982	1.80	Q	.	.	.	V.
28.500	58.3097	1.68	Q	.	.	.	V.
28.583	58.3205	1.56	Q	.	.	.	V.
28.667	58.3305	1.46	Q	.	.	.	V.
28.750	58.3399	1.36	Q	.	.	.	V.
28.833	58.3486	1.27	Q	.	.	.	V.
28.917	58.3568	1.19	Q	.	.	.	V.
29.000	58.3645	1.11	Q	.	.	.	V.
29.083	58.3717	1.05	Q	.	.	.	V.
29.167	58.3785	0.99	Q	.	.	.	V.
29.250	58.3849	0.93	Q	.	.	.	V.
29.333	58.3909	0.87	Q	.	.	.	V.
29.417	58.3965	0.82	Q	.	.	.	V.
29.500	58.4018	0.76	Q	.	.	.	V.
29.583	58.4066	0.71	Q	.	.	.	V.
29.667	58.4112	0.66	Q	.	.	.	V.
29.750	58.4154	0.61	Q	.	.	.	V.
29.833	58.4193	0.57	Q	.	.	.	V.
29.917	58.4230	0.53	Q	.	.	.	V.
30.000	58.4264	0.50	Q	.	.	.	V.
30.083	58.4296	0.46	Q	.	.	.	V.
30.167	58.4325	0.43	Q	.	.	.	V.
30.250	58.4353	0.40	Q	.	.	.	V.
30.333	58.4378	0.37	Q	.	.	.	V.
30.417	58.4402	0.35	Q	.	.	.	V.
30.500	58.4425	0.33	Q	.	.	.	V.
30.583	58.4446	0.31	Q	.	.	.	V.
30.667	58.4465	0.29	Q	.	.	.	V.
30.750	58.4484	0.27	Q	.	.	.	V.
30.833	58.4501	0.25	Q	.	.	.	V.
30.917	58.4516	0.23	Q	.	.	.	V.
31.000	58.4531	0.21	Q	.	.	.	V.
31.083	58.4544	0.19	Q	.	.	.	V.
31.167	58.4556	0.18	Q	.	.	.	V.
31.250	58.4569	0.18	Q	.	.	.	V.
31.333	58.4580	0.17	Q	.	.	.	V.
31.417	58.4592	0.17	Q	.	.	.	V.
31.500	58.4603	0.16	Q	.	.	.	V.
31.583	58.4614	0.16	Q	.	.	.	V.
31.667	58.4624	0.15	Q	.	.	.	V.
31.750	58.4634	0.14	Q	.	.	.	V.
31.833	58.4643	0.14	Q	.	.	.	V.
31.917	58.4653	0.13	Q	.	.	.	V.
32.000	58.4661	0.13	Q	.	.	.	V.
32.083	58.4670	0.12	Q	.	.	.	V.
32.167	58.4678	0.12	Q	.	.	.	V.
32.250	58.4686	0.11	Q	.	.	.	V.
32.333	58.4693	0.11	Q	.	.	.	V.
32.417	58.4700	0.10	Q	.	.	.	V.
32.500	58.4707	0.10	Q	.	.	.	V.
32.583	58.4713	0.09	Q	.	.	.	V.
32.667	58.4719	0.09	Q	.	.	.	V.
32.750	58.4725	0.08	Q	.	.	.	V.
32.833	58.4731	0.08	Q	.	.	.	V.
32.917	58.4736	0.07	Q	.	.	.	V.

33.000	58.4740	0.07	Q	.	.	.	V.
33.083	58.4745	0.06	Q	.	.	.	V.
33.167	58.4749	0.06	Q	.	.	.	V.
33.250	58.4753	0.05	Q	.	.	.	V.
33.333	58.4756	0.05	Q	.	.	.	V.
33.417	58.4759	0.05	Q	.	.	.	V.
33.500	58.4762	0.04	Q	.	.	.	V.
33.583	58.4764	0.04	Q	.	.	.	V.
33.667	58.4767	0.03	Q	.	.	.	V.
33.750	58.4768	0.03	Q	.	.	.	V.
33.833	58.4770	0.02	Q	.	.	.	V.
33.917	58.4771	0.02	Q	.	.	.	V.
34.000	58.4772	0.01	Q	.	.	.	V.
34.083	58.4773	0.01	Q	.	.	.	V.

-----  
TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
(Note: 100% of Peak Flow Rate estimate assumed to have  
an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
=====	=====
0%	2045.0
10%	780.0
20%	410.0
30%	330.0
40%	250.0
50%	215.0
60%	170.0
70%	130.0
80%	75.0
90%	35.0

-----  
END OF FLOODSCx ROUTING ANALYSIS



\*\*\*\*\*

FLOOD ROUTING ANALYSIS  
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)  
(c) Copyright 1989-2013 Advanced Engineering Software (aes)  
Ver. 20.0 Release Date: 06/01/2013 License ID 1237

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*  
\* RMV PA-3 ROMP AMENDMENT 2022 - NODE 134U \*  
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*  
\* 2-YR EV OCT 2022 ROKAMOTO \*  
\*\*\*\*\*

FILE NAME: EVO234US.DAT  
TIME/DATE OF STUDY: 13:45 10/25/2022

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 134.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<

=====

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 62747.398 ACRES  
BASEFLOW = 0.000 CFS/SQUARE-MILE  
\*USER ENTERED "LAG" TIME = 6.120 HOURS  
VALLEY (DEVELOPED) S-GRAPH SELECTED  
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.567  
LOW LOSS FRACTION = 0.903  
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.15  
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.29  
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 0.41  
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 0.74  
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 1.09  
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 1.90

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:  
5-MINUTE FACTOR = 0.304  
30-MINUTE FACTOR = 0.358  
1-HOUR FACTOR = 0.405  
3-HOUR FACTOR = 0.750  
6-HOUR FACTOR = 0.890  
24-HOUR FACTOR = 0.936

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES  
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 1.362

UNIT HYDROGRAPH DETERMINATION

INTERVAL NUMBER	"S" GRAPH MEAN VALUES	UNIT HYDROGRAPH ORDINATES (CFS)
1	0.078	590.456
2	0.233	1180.902
3	0.389	1180.913
4	0.545	1180.902
5	0.700	1180.912
6	0.856	1180.907
7	1.012	1180.907
8	1.167	1180.908
9	1.323	1180.912
10	1.478	1180.913
11	1.634	1180.896
12	1.790	1180.913
13	1.946	1187.663
14	2.153	1573.401
15	2.390	1797.041
16	2.627	1797.028
17	2.864	1797.041
18	3.101	1797.028
19	3.338	1797.050
20	3.574	1797.008
21	3.811	1797.050
22	4.097	2169.408
23	4.524	3239.688
24	4.960	3306.503
25	5.395	3306.590
26	5.832	3313.183
27	6.351	3939.394
28	6.924	4350.678
29	7.498	4350.722
30	8.101	4576.537
31	8.816	5428.951
32	9.542	5510.924
33	10.252	5380.564
34	10.933	5169.332
35	11.614	5166.531
36	12.294	5166.437
37	12.975	5166.444
38	13.656	5166.523
39	14.539	6700.341
40	15.624	8231.691
41	16.478	6485.628
42	17.205	5510.924
43	17.931	5510.924
44	18.657	5510.938
45	19.383	5510.924
46	20.148	5802.603
47	21.045	6804.677
48	21.971	7026.302

49	23.032	8056.427
50	24.063	7824.786
51	24.865	6082.558
52	25.643	5904.311
53	26.421	5904.977
54	27.199	5904.311
55	28.012	6166.231
56	29.058	7936.018
57	30.110	7988.399
58	31.030	6980.550
59	31.980	7209.803
60	33.269	9776.234
61	34.504	9375.177
62	35.591	8245.225
63	36.455	6562.137
64	37.181	5510.432
65	37.974	6013.835
66	39.458	11263.707
67	40.782	10042.541
68	41.939	8784.031
69	43.201	9578.593
70	44.445	9439.151
71	45.629	8979.922
72	46.957	10081.360
73	48.437	11233.080
74	49.994	11809.288
75	51.050	8014.597
76	52.040	7514.580
77	53.030	7515.246
78	54.009	7429.531
79	54.927	6960.836
80	55.844	6958.086
81	56.891	7944.514
82	57.994	8374.478
83	59.188	9060.224
84	60.518	10088.800
85	62.008	11312.021
86	63.200	9041.146
87	64.283	8220.706
88	65.233	7205.764
89	66.165	7076.425
90	67.058	6774.441
91	67.969	6918.602
92	69.050	8203.077
93	70.099	7954.009
94	70.912	6175.799
95	71.707	6031.522
96	72.559	6461.457
97	73.446	6730.845
98	74.314	6588.017
99	75.152	6362.165
100	75.962	6147.198
101	76.598	4821.906
102	77.203	4596.113
103	77.808	4587.950
104	78.414	4596.055
105	79.019	4590.671
106	79.624	4593.392

107	80.243	4696.793
108	80.883	4860.002
109	81.524	4860.060
110	82.146	4718.562
111	82.721	4364.819
112	83.294	4351.156
113	83.865	4334.887
114	84.399	4046.393
115	84.918	3937.549
116	85.436	3937.606
117	85.946	3869.521
118	86.382	3308.974
119	86.801	3178.362
120	87.220	3181.083
121	87.640	3181.083
122	88.038	3023.201
123	88.365	2479.039
124	88.685	2432.722
125	89.006	2432.780
126	89.326	2430.001
127	89.646	2430.001
128	89.964	2411.011
129	90.257	2223.197
130	90.543	2174.218
131	90.830	2176.996
132	91.117	2174.218
133	91.404	2176.938
134	91.690	2171.554
135	91.975	2160.612
136	92.238	2000.067
137	92.498	1970.135
138	92.757	1970.135
139	93.016	1964.750
140	93.276	1970.135
141	93.535	1964.693
142	93.794	1970.135
143	94.032	1801.427
144	94.209	1344.282
145	94.381	1306.186
146	94.554	1311.571
147	94.728	1317.071
148	94.900	1311.628
149	95.073	1311.628
150	95.246	1311.571
151	95.419	1311.628
152	95.592	1311.628
153	95.765	1317.071
154	95.937	1306.186
155	96.068	990.481
156	96.175	810.946
157	96.282	816.330
158	96.389	805.504
159	96.495	810.888
160	96.602	810.888
161	96.709	810.946
162	96.815	805.446
163	96.923	816.388
164	97.029	805.446

165	97.137	816.388
166	97.243	805.446
167	97.350	810.946
168	97.456	810.888
169	97.563	810.946
170	97.670	810.888
171	97.777	810.946
172	97.883	805.446
173	97.983	756.524
174	98.023	304.763
175	98.048	190.477
176	98.074	195.919
177	98.100	195.919
178	98.125	190.477
179	98.150	190.477
180	98.177	201.419
181	98.201	185.035
182	98.227	201.361
183	98.253	195.919
184	98.278	185.035
185	98.304	201.361
186	98.329	185.035
187	98.355	201.361
188	98.380	190.477
189	98.406	195.977
190	98.433	201.361
191	98.458	190.477
192	98.483	195.919
193	98.509	195.919
194	98.534	190.477
195	98.560	195.919
196	98.585	190.477
197	98.612	201.361
198	98.636	185.093
199	98.662	195.919
200	98.688	195.919
201	98.714	195.919
202	98.738	185.035
203	98.765	206.804
204	98.790	185.035
205	98.816	195.919
206	98.840	185.035
207	98.867	206.862
208	98.892	185.035
209	98.919	206.804
210	98.943	185.035
211	98.968	185.035
212	98.995	206.804
213	99.019	185.035
214	99.044	185.035
215	99.068	185.035
216	99.092	185.035
217	99.117	185.035
218	99.141	185.035
219	99.166	185.035
220	99.190	185.035
221	99.214	185.035
222	99.239	185.035

223	99.263	185.035
224	99.287	185.035
225	99.312	185.035
226	99.336	185.035
227	99.361	185.035
228	99.385	185.035
229	99.409	185.035
230	99.434	185.035
231	99.458	185.035
232	99.482	185.035
233	99.507	185.035
234	99.531	185.035
235	99.556	185.035
236	99.580	185.035
237	99.604	185.035
238	99.629	185.035
239	99.653	185.035
240	99.678	185.035
241	99.702	185.035
242	99.726	185.035
243	99.751	185.035
244	99.775	185.035
245	99.799	185.035
246	99.824	185.035
247	99.848	185.035
248	99.873	185.035
249	99.897	185.035
250	99.921	185.035
251	99.946	185.035
252	99.970	185.035
253	99.995	185.035
254	100.000	41.395

-----  
TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 8402.2764  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 902.1038  
-----

=====

2 4 - 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 FIVE-MINUTE UNIT INTERVALS (CFS)

(Note: Time indicated is at END of Each Unit Intervals)

TIME (HRS)	VOLUME (AF)	Q (CFS)	0.	225.0	450.0	675.0	900.0
0.083	0.0011	0.16	Q	.	.	.	.
0.167	0.0043	0.47	Q	.	.	.	.
0.250	0.0097	0.78	Q	.	.	.	.
0.333	0.0173	1.10	Q	.	.	.	.
0.417	0.0270	1.41	Q	.	.	.	.
0.500	0.0389	1.73	Q	.	.	.	.
0.583	0.0530	2.05	Q	.	.	.	.
0.667	0.0693	2.36	Q	.	.	.	.
0.750	0.0878	2.68	Q	.	.	.	.
0.833	0.1084	3.00	Q	.	.	.	.
0.917	0.1313	3.33	Q	.	.	.	.
1.000	0.1565	3.65	Q	.	.	.	.
1.083	0.1838	3.97	Q	.	.	.	.
1.167	0.2141	4.40	Q	.	.	.	.
1.250	0.2478	4.89	Q	.	.	.	.
1.333	0.2849	5.38	Q	.	.	.	.
1.417	0.3253	5.87	Q	.	.	.	.
1.500	0.3691	6.36	Q	.	.	.	.
1.583	0.4163	6.86	Q	.	.	.	.
1.667	0.4670	7.35	Q	.	.	.	.
1.750	0.5211	7.85	Q	.	.	.	.
1.833	0.5793	8.45	Q	.	.	.	.
1.917	0.6435	9.33	Q	.	.	.	.
2.000	0.7140	10.24	Q	.	.	.	.
2.083	0.7908	11.14	Q	.	.	.	.
2.167	0.8738	12.05	Q	.	.	.	.
2.250	0.9642	13.13	Q	.	.	.	.
2.333	1.0628	14.32	Q	.	.	.	.
2.417	1.1697	15.52	Q	.	.	.	.
2.500	1.2852	16.77	Q	.	.	.	.
2.583	1.4110	18.26	Q	.	.	.	.
2.667	1.5472	19.78	Q	.	.	.	.
2.750	1.6936	21.26	Q	.	.	.	.
2.833	1.8499	22.69	VQ	.	.	.	.
2.917	2.0161	24.13	VQ	.	.	.	.
3.000	2.1922	25.57	VQ	.	.	.	.
3.083	2.3783	27.02	VQ	.	.	.	.
3.167	2.5744	28.47	VQ	.	.	.	.
3.250	2.7832	30.33	VQ	.	.	.	.
3.333	3.0078	32.60	VQ	.	.	.	.
3.417	3.2448	34.42	VQ	.	.	.	.
3.500	3.4926	35.98	VQ	.	.	.	.
3.583	3.7513	37.56	VQ	.	.	.	.
3.667	4.0208	39.13	VQ	.	.	.	.
3.750	4.3012	40.71	VQ	.	.	.	.
3.833	4.5931	42.38	VQ	.	.	.	.
3.917	4.8982	44.31	VQ	.	.	.	.

4.000	5.2172	46.31	V Q	.	.	.	.
4.083	5.5518	48.59	V Q	.	.	.	.
4.167	5.9018	50.82	V Q	.	.	.	.
4.250	6.2640	52.59	V Q	.	.	.	.
4.333	6.6381	54.32	V Q	.	.	.	.
4.417	7.0242	56.06	V Q	.	.	.	.
4.500	7.4222	57.80	V Q	.	.	.	.
4.583	7.8328	59.62	V Q	.	.	.	.
4.667	8.2592	61.91	V Q	.	.	.	.
4.750	8.7016	64.23	V Q	.	.	.	.
4.833	9.1581	66.28	V Q	.	.	.	.
4.917	9.6292	68.41	V Q	.	.	.	.
5.000	10.1197	71.22	V Q	.	.	.	.
5.083	10.6289	73.93	V Q	.	.	.	.
5.167	11.1548	76.36	V Q	.	.	.	.
5.250	11.6944	78.35	V Q	.	.	.	.
5.333	12.2458	80.07	V Q	.	.	.	.
5.417	12.8100	81.92	V Q	.	.	.	.
5.500	13.3967	85.18	V Q	.	.	.	.
5.583	14.0035	88.12	V Q	.	.	.	.
5.667	14.6285	90.74	V Q	.	.	.	.
5.750	15.2729	93.58	V Q	.	.	.	.
5.833	15.9368	96.39	V Q	.	.	.	.
5.917	16.6193	99.09	V Q	.	.	.	.
6.000	17.3224	102.10	V Q	.	.	.	.
6.083	18.0484	105.41	V Q	.	.	.	.
6.167	18.7984	108.90	V Q	.	.	.	.
6.250	19.5655	111.39	V Q	.	.	.	.
6.333	20.3490	113.76	V Q	.	.	.	.
6.417	21.1489	116.14	V Q	.	.	.	.
6.500	21.9650	118.51	V Q	.	.	.	.
6.583	22.7967	120.76	.V Q	.	.	.	.
6.667	23.6439	123.02	.V Q	.	.	.	.
6.750	24.5086	125.55	.V Q	.	.	.	.
6.833	25.3916	128.21	.V Q	.	.	.	.
6.917	26.2942	131.05	.V Q	.	.	.	.
7.000	27.2183	134.19	.V Q	.	.	.	.
7.083	28.1664	137.65	.V Q	.	.	.	.
7.167	29.1342	140.54	.V Q	.	.	.	.
7.250	30.1205	143.21	.V Q	.	.	.	.
7.333	31.1235	145.63	.V Q	.	.	.	.
7.417	32.1430	148.02	.V Q	.	.	.	.
7.500	33.1784	150.35	.V Q	.	.	.	.
7.583	34.2303	152.73	.V Q	.	.	.	.
7.667	35.3009	155.45	.V Q	.	.	.	.
7.750	36.3899	158.13	.V Q	.	.	.	.
7.833	37.4942	160.34	.V Q	.	.	.	.
7.917	38.6135	162.53	.V Q	.	.	.	.
8.000	39.7488	164.84	.V Q	.	.	.	.
8.083	40.9005	167.23	.V Q	.	.	.	.
8.167	42.0686	169.60	.V Q	.	.	.	.
8.250	43.2526	171.92	.V Q	.	.	.	.
8.333	44.4523	174.20	.V Q	.	.	.	.
8.417	45.6654	176.13	.V Q	.	.	.	.
8.500	46.8914	178.02	.V Q	.	.	.	.
8.583	48.1306	179.92	.V Q	.	.	.	.
8.667	49.3829	181.83	.V Q	.	.	.	.
8.750	50.6484	183.75	.V Q	.	.	.	.

8.833	51.9272	185.69	. V	Q .	.	.	.
8.917	53.2196	187.66	. V	Q .	.	.	.
9.000	54.5260	189.69	. V	Q .	.	.	.
9.083	55.8464	191.72	. V	Q .	.	.	.
9.167	57.1807	193.74	. V	Q .	.	.	.
9.250	58.5283	195.67	. V	Q .	.	.	.
9.333	59.8893	197.62	. V	Q .	.	.	.
9.417	61.2637	199.56	. V	Q .	.	.	.
9.500	62.6511	201.45	. V	Q .	.	.	.
9.583	64.0514	203.32	. V	Q .	.	.	.
9.667	65.4647	205.21	. V	Q .	.	.	.
9.750	66.8909	207.09	. V	Q .	.	.	.
9.833	68.3292	208.84	. V	Q .	.	.	.
9.917	69.7793	210.56	. V	Q .	.	.	.
10.000	71.2414	212.30	. V	Q .	.	.	.
10.083	72.7156	214.05	. V	Q .	.	.	.
10.167	74.2016	215.78	. V	Q .	.	.	.
10.250	75.6987	217.37	. V	Q .	.	.	.
10.333	77.2067	218.97	. V	Q .	.	.	.
10.417	78.7258	220.58	. V	Q .	.	.	.
10.500	80.2561	222.20	. V	Q .	.	.	.
10.583	81.7978	223.84	. V	Q .	.	.	.
10.667	83.3507	225.49	. V	Q .	.	.	.
10.750	84.9148	227.11	. V	Q .	.	.	.
10.833	86.4901	228.73	. V	Q .	.	.	.
10.917	88.0766	230.36	. V	Q .	.	.	.
11.000	89.6745	232.01	. V	Q .	.	.	.
11.083	91.2838	233.68	. V	Q .	.	.	.
11.167	92.9048	235.37	. V	Q .	.	.	.
11.250	94.5375	237.06	. V	Q .	.	.	.
11.333	96.1817	238.74	. V	Q .	.	.	.
11.417	97.8375	240.42	. V	Q .	.	.	.
11.500	99.5050	242.13	. V	Q .	.	.	.
11.583	101.1844	243.85	. V	Q .	.	.	.
11.667	102.8758	245.59	. V	Q .	.	.	.
11.750	104.5794	247.35	. V	Q .	.	.	.
11.833	106.2952	249.14	. V	.Q	.	.	.
11.917	108.0231	250.89	. V	.Q	.	.	.
12.000	109.7625	252.56	. V	.Q	.	.	.
12.083	111.5152	254.50	. V	.Q	.	.	.
12.167	113.2834	256.74	. V	.Q	.	.	.
12.250	115.0672	259.00	. V	.Q	.	.	.
12.333	116.8666	261.28	. V	.Q	.	.	.
12.417	118.6820	263.58	. V	.Q	.	.	.
12.500	120.5133	265.91	. V	.Q	.	.	.
12.583	122.3608	268.25	. V	.Q	.	.	.
12.667	124.2246	270.63	. V	.Q	.	.	.
12.750	126.1049	273.02	. V	.Q	.	.	.
12.833	128.0019	275.44	. V	.Q	.	.	.
12.917	129.9151	277.80	. V	.Q	.	.	.
13.000	131.8444	280.14	. V	.Q	.	.	.
13.083	133.7901	282.51	. V	.Q	.	.	.
13.167	135.7534	285.08	. V	.Q	.	.	.
13.250	137.7354	287.78	. V	.Q	.	.	.
13.333	139.7362	290.51	. V	.Q	.	.	.
13.417	141.7560	293.27	. V	.Q	.	.	.
13.500	143.7950	296.06	. V	.Q	.	.	.
13.583	145.8534	298.88	. V	.Q	.	.	.

13.667	147.9315	301.74	. V	. Q	.	.	.
13.750	150.0294	304.62	. V	. Q	.	.	.
13.833	152.1487	307.71	. V	. Q	.	.	.
13.917	154.2928	311.33	. V	. Q	.	.	.
14.000	156.4623	315.01	. V	. Q	.	.	.
14.083	158.6593	319.01	. V	. Q	.	.	.
14.167	160.8860	323.31	. V	. Q	.	.	.
14.250	163.1444	327.92	. V	. Q	.	.	.
14.333	165.4360	332.73	. V	. Q	.	.	.
14.417	167.7606	337.54	. V	. Q	.	.	.
14.500	170.1184	342.35	. V	. Q	.	.	.
14.583	172.5119	347.53	. V	. Q	.	.	.
14.667	174.9414	352.77	. V	. Q	.	.	.
14.750	177.4066	357.95	. V	. Q	.	.	.
14.833	179.9070	363.05	. V	. Q	.	.	.
14.917	182.4425	368.16	. V	. Q	.	.	.
15.000	185.0134	373.29	. V	. Q	.	.	.
15.083	187.6197	378.43	. V	. Q	.	.	.
15.167	190.2627	383.77	. V	. Q	.	.	.
15.250	192.9481	389.92	. V	. Q	.	.	.
15.333	195.6807	396.78	. V	. Q	.	.	.
15.417	198.4525	402.47	. V	. Q	.	.	.
15.500	201.2581	407.37	. V	. Q	.	.	.
15.583	204.0980	412.36	. V	. Q	.	.	.
15.667	206.9729	417.44	. V	. Q	.	.	.
15.750	209.8824	422.45	. V	. Q	.	.	.
15.833	212.8284	427.76	. V	. Q	.	.	.
15.917	215.8194	434.29	. V	. Q	.	.	.
16.000	218.8595	441.43	. V	. Q	.	.	.
16.083	221.9651	450.93	. V	. Q	.	.	.
16.167	225.1328	459.95	. V	. Q	.	.	.
16.250	228.3452	466.44	. V	. Q	.	.	.
16.333	231.6026	472.96	. V	.Q	.	.	.
16.417	234.9063	479.70	. V	.Q	.	.	.
16.500	238.2579	486.65	. V	.Q	.	.	.
16.583	241.6602	494.01	. V	.Q	.	.	.
16.667	245.1193	502.27	. V	. Q	.	.	.
16.750	248.6352	510.50	. V	. Q	.	.	.
16.833	252.2034	518.11	. V	. Q	.	.	.
16.917	255.8245	525.79	. V	. Q	.	.	.
17.000	259.5077	534.80	. V	. Q	.	.	.
17.083	263.2513	543.57	. V	. Q	.	.	.
17.167	267.0558	552.42	. V	. Q	.	.	.
17.250	270.9112	559.80	. V	. Q	.	.	.
17.333	274.8136	566.63	. V	. Q	.	.	.
17.417	278.7586	572.81	. V	. Q	.	.	.
17.500	282.7604	581.06	. V	. Q	.	.	.
17.583	286.8119	588.27	. V	. Q	.	.	.
17.667	290.9088	594.88	. V	. Q	.	.	.
17.750	295.0576	602.40	. V	. Q	.	.	.
17.833	299.2686	611.43	. V	. Q	.	.	.
17.917	303.5511	621.82	. V	. Q	.	.	.
18.000	307.8851	629.31	. V	. Q	.	.	.
18.083	312.2765	637.63	. V	. Q	.	.	.
18.167	316.7271	646.23	. V	. Q	.	.	.
18.250	321.2341	654.41	. V	. Q	.	.	.
18.333	325.7895	661.45	. V	. Q	.	.	.
18.417	330.3865	667.49	. V	. Q	.	.	.

18.500	335.0316	674.47	.	.	V	.	Q.	.
18.583	339.7306	682.29	.	.	V	.	Q	.
18.667	344.4655	687.51	.	.	V	.	Q	.
18.750	349.2431	693.71	.	.	V	.	Q	.
18.833	354.0645	700.07	.	.	V	.	.Q	.
18.917	358.9345	707.12	.	.	V	.	.Q	.
19.000	363.8628	715.59	.	.	V	.	.Q	.
19.083	368.8578	725.27	.	.	V	.	.Q	.
19.167	373.9129	734.01	.	.	V	.	.Q	.
19.250	379.0420	744.74	.	.	V	.	.Q	.
19.333	384.2219	752.13	.	.	V	.	.Q	.
19.417	389.3776	748.61	.	.	V	.	.Q	.
19.500	394.5467	750.55	.	.	V	.	.Q	.
19.583	399.7563	756.43	.	.	V	.	.Q	.
19.667	405.0142	763.45	.	.	V	.	.Q	.
19.750	410.3180	770.10	.	.	V	.	.Q	.
19.833	415.6656	776.48	.	.	V	.	.Q	.
19.917	421.0674	784.33	.	.	V	.	.Q	.
20.000	426.5016	789.06	.	.	V	.	.Q	.
20.083	431.9822	795.77	.	.	V.	.	.Q	.
20.167	437.4803	798.33	.	.	V.	.	.Q	.
20.250	442.9493	794.09	.	.	V.	.	.Q	.
20.333	448.4035	791.96	.	.	V.	.	.Q	.
20.417	453.8562	791.73	.	.	V	.	.Q	.
20.500	459.3215	793.57	.	.	V	.	.Q	.
20.583	464.8058	796.31	.	.	V	.	.Q	.
20.667	470.3329	802.54	.	.	V	.	.Q	.
20.750	475.8615	802.76	.	.	.V	.	.Q	.
20.833	481.3560	797.80	.	.	.V	.	.Q	.
20.917	486.8569	798.74	.	.	.V	.	.Q	.
21.000	492.4215	807.98	.	.	.V	.	.Q	.
21.083	497.9715	805.86	.	.	.V	.	.Q	.
21.167	503.4683	798.14	.	.	.V	.	.Q	.
21.250	508.9060	789.55	.	.	.V	.	.Q	.
21.333	514.3163	785.58	.	.	.V	.	.Q	.
21.417	519.7444	788.16	.	.	.V	.	.Q	.
21.500	525.2708	802.43	.	.	.V	.	.Q	.
21.583	530.7578	796.72	.	.	.V	.	.Q	.
21.667	536.2061	791.09	.	.	.V	.	.Q	.
21.750	541.6508	790.58	.	.	.V	.	.Q	.
21.833	547.0857	789.14	.	.	.V	.	.Q	.
21.917	552.5104	787.67	.	.	.V	.	.Q	.
22.000	557.9466	789.33	.	.	.V	.	.Q	.
22.083	563.3792	788.81	.	.	.V	.	.Q	.
22.167	568.7814	784.39	.	.	.V	.	.Q	.
22.250	574.0686	767.71	.	.	.V	.	.Q	.
22.333	579.3235	763.01	.	.	.V	.	.Q	.
22.417	584.5491	758.74	.	.	.V	.	.Q	.
22.500	589.7415	753.94	.	.	.V	.	.Q	.
22.583	594.8884	747.33	.	.	.V	.	.Q	.
22.667	600.0027	742.61	.	.	.V	.	.Q	.
22.750	605.1006	740.22	.	.	.V	.	.Q	.
22.833	610.1785	737.30	.	.	.V	.	.Q	.
22.917	615.2424	735.28	.	.	.V	.	.Q	.
23.000	620.2765	730.95	.	.	.V	.	.Q	.
23.083	625.2723	725.39	.	.	.V	.	.Q	.
23.167	630.1622	710.02	.	.	.V	.	.Q	.
23.250	634.9987	702.25	.	.	.V	.	.Q	.

23.333	639.7832	694.71	.	.	.	.	V	Q	.
23.417	644.5419	690.96	.	.	.	.	V	Q	.
23.500	649.2539	684.18	.	.	.	.	V	Q	.
23.583	653.9354	679.75	.	.	.	.	V	Q	.
23.667	658.6031	677.76	.	.	.	.	VQ	.	.
23.750	663.2155	669.71	.	.	.	.	Q.	.	.
23.833	667.7408	657.08	.	.	.	.	Q.	.	.
23.917	672.2167	649.90	.	.	.	.	QV.	.	.
24.000	676.6508	643.82	.	.	.	.	Q	V	.
24.083	681.0297	635.83	.	.	.	.	Q	V	.
24.167	685.3394	625.75	.	.	.	.	Q	V	.
24.250	689.5856	616.55	.	.	.	.	Q	V	.
24.333	693.7703	607.62	.	.	.	.	Q	V	.
24.417	697.8742	595.88	.	.	.	.	Q	V	.
24.500	701.9260	588.31	.	.	.	.	Q	.V	.
24.583	705.9325	581.75	.	.	.	.	Q	.V	.
24.667	709.8901	574.64	.	.	.	.	Q	.V	.
24.750	713.7906	566.35	.	.	.	.	Q	.V	.
24.833	717.6390	558.80	.	.	.	.	Q	.V	.
24.917	721.4358	551.29	.	.	.	.	Q	.V	.
25.000	725.1754	543.00	.	.	.	.	Q	.V	.
25.083	728.8480	533.26	.	.	.	.	Q	.V	.
25.167	732.4591	524.33	.	.	.	.	Q	.V	.
25.250	736.0084	515.36	.	.	.	.	Q	.V	.
25.333	739.5069	507.98	.	.	.	.	Q	.V	.
25.417	742.9581	501.12	.	.	.	.	Q	.V	.
25.500	746.3598	493.92	.	.	.	.	.Q	.V	.
25.583	749.7171	487.48	.	.	.	.	.Q	.V	.
25.667	753.0270	480.59	.	.	.	.	.Q	.V	.
25.750	756.2870	473.35	.	.	.	.	.Q	.V	.
25.833	759.4916	465.31	.	.	.	.	Q	.V	.
25.917	762.6494	458.52	.	.	.	.	Q	.V	.
26.000	765.7596	451.59	.	.	.	.	Q	.V	.
26.083	768.8203	444.42	.	.	.	.	Q.	.V	.
26.167	771.8260	436.42	.	.	.	.	Q.	.V	.
26.250	774.7698	427.44	.	.	.	.	Q.	.V	.
26.333	777.6635	420.17	.	.	.	.	Q.	.V	.
26.417	780.5128	413.71	.	.	.	.	Q.	.V	.
26.500	783.3172	407.21	.	.	.	.	Q.	.V	.
26.583	786.0730	400.14	.	.	.	.	Q.	.V	.
26.667	788.7795	392.98	.	.	.	.	Q.	.V	.
26.750	791.4339	385.42	.	.	.	.	Q.	.V	.
26.833	794.0419	378.69	.	.	.	.	Q.	.V	.
26.917	796.6040	372.01	.	.	.	.	Q.	.V	.
27.000	799.1194	365.24	.	.	.	.	Q.	.V	.
27.083	801.5877	358.40	.	.	.	.	Q.	.V	.
27.167	804.0093	351.62	.	.	.	.	Q.	.V	.
27.250	806.3848	344.91	.	.	.	.	Q.	.V	.
27.333	808.7106	337.72	.	.	.	.	Q.	.V	.
27.417	810.9938	331.52	.	.	.	.	Q.	.V	.
27.500	813.2376	325.79	.	.	.	.	Q.	.V	.
27.583	815.4427	320.18	.	.	.	.	Q.	.V	.
27.667	817.6095	314.62	.	.	.	.	Q.	.V	.
27.750	819.7382	309.08	.	.	.	.	Q.	.V	.
27.833	821.8289	303.58	.	.	.	.	Q.	.V	.
27.917	823.8759	297.21	.	.	.	.	Q.	.V	.
28.000	825.8740	290.12	.	.	.	.	Q.	.V	.
28.083	827.8316	284.25	.	.	.	.	Q.	.V	.

28.167	829.7512	278.73	.	.	Q	.	.	V	.
28.250	831.6390	274.11	.	.	Q	.	.	V	.
28.333	833.4950	269.48	.	.	.	.	.	V	.
28.417	835.3188	264.82	.	.	Q	.	.	V	.
28.500	837.1091	259.94	.	.	Q	.	.	V	.
28.583	838.8654	255.02	.	.	Q	.	.	V	.
28.667	840.5848	249.66	.	.	Q	.	.	V	.
28.750	842.2673	244.29	.	.	Q	.	.	V	.
28.833	843.9131	238.98	.	.	Q	.	.	V	.
28.917	845.5165	232.81	.	.	Q	.	.	V	.
29.000	847.0784	226.79	.	.	Q	.	.	V	.
29.083	848.6042	221.56	.	.	Q	.	.	V	.
29.167	850.0966	216.68	.	.	Q	.	.	V	.
29.250	851.5579	212.19	.	.	Q	.	.	V	.
29.333	852.9902	207.96	.	.	Q	.	.	V	.
29.417	854.3928	203.65	.	.	Q	.	.	V	.
29.500	855.7560	197.95	.	.	Q	.	.	V	.
29.583	857.0829	192.66	.	.	Q	.	.	V	.
29.667	858.3754	187.68	.	.	Q	.	.	V	.
29.750	859.6331	182.61	.	.	Q	.	.	V	.
29.833	860.8577	177.82	.	.	Q	.	.	V	.
29.917	862.0526	173.51	.	.	Q	.	.	V	.
30.000	863.2177	169.17	.	.	Q	.	.	V	.
30.083	864.3512	164.58	.	.	Q	.	.	V	.
30.167	865.4528	159.95	.	.	Q	.	.	V	.
30.250	866.5294	156.32	.	.	Q	.	.	V	.
30.333	867.5806	152.64	.	.	Q	.	.	V	.
30.417	868.6045	148.67	.	.	Q	.	.	V	.
30.500	869.5934	143.59	.	.	Q	.	.	V	.
30.583	870.5568	139.89	.	.	Q	.	.	V	.
30.667	871.4979	136.64	.	.	Q	.	.	V	.
30.750	872.4148	133.14	.	.	Q	.	.	V	.
30.833	873.3054	129.32	.	.	Q	.	.	V	.
30.917	874.1693	125.43	.	.	Q	.	.	V	.
31.000	875.0052	121.38	.	.	Q	.	.	V	.
31.083	875.8106	116.94	.	.	Q	.	.	V	.
31.167	876.5903	113.21	.	.	Q	.	.	V	.
31.250	877.3455	109.65	.	.	Q	.	.	V	.
31.333	878.0780	106.36	.	.	Q	.	.	V	.
31.417	878.7888	103.21	.	.	Q	.	.	V	.
31.500	879.4794	100.28	.	.	Q	.	.	V	.
31.583	880.1508	97.48	.	.	Q	.	.	V	.
31.667	880.8002	94.30	.	.	Q	.	.	V	.
31.750	881.4286	91.25	.	.	Q	.	.	V	.
31.833	882.0395	88.70	.	.	Q	.	.	V	.
31.917	882.6329	86.17	.	.	Q	.	.	V	.
32.000	883.2086	83.58	.	.	Q	.	.	V	.
32.083	883.7660	80.94	.	.	Q	.	.	V	.
32.167	884.3055	78.34	.	.	Q	.	.	V	.
32.250	884.8279	75.85	.	.	Q	.	.	V	.
32.333	885.3335	73.42	.	.	Q	.	.	V	.
32.417	885.8253	71.41	.	.	Q	.	.	V	.
32.500	886.3048	69.62	.	.	Q	.	.	V	.
32.583	886.7729	67.97	.	.	Q	.	.	V	.
32.667	887.2296	66.31	.	.	Q	.	.	V	.
32.750	887.6749	64.66	.	.	Q	.	.	V	.
32.833	888.1088	63.00	.	.	Q	.	.	V	.
32.917	888.5319	61.43	.	.	Q	.	.	V	.

33.000	888.9429	59.68	.	Q	.	.	.	V	.
33.083	889.3428	58.07	.	Q	.	.	.	V	.
33.167	889.7310	56.36	.	Q	.	.	.	V	.
33.250	890.1088	54.86	.	Q	.	.	.	V	.
33.333	890.4753	53.23	.	Q	.	.	.	V	.
33.417	890.8317	51.74	.	Q	.	.	.	V	.
33.500	891.1775	50.21	.	Q	.	.	.	V	.
33.583	891.5136	48.80	.	Q	.	.	.	V	.
33.667	891.8404	47.45	.	Q	.	.	.	V	.
33.750	892.1572	46.00	.	Q	.	.	.	V	.
33.833	892.4655	44.77	.	Q	.	.	.	V	.
33.917	892.7656	43.57	.	Q	.	.	.	V	.
34.000	893.0576	42.41	.	Q	.	.	.	V	.
34.083	893.3416	41.23	.	Q	.	.	.	V	.
34.167	893.6179	40.12	.	Q	.	.	.	V	.
34.250	893.8875	39.14	.	Q	.	.	.	V	.
34.333	894.1505	38.18	.	Q	.	.	.	V	.
34.417	894.4068	37.22	.	Q	.	.	.	V	.
34.500	894.6567	36.29	.	Q	.	.	.	V	.
34.583	894.9002	35.35	.	Q	.	.	.	V	.
34.667	895.1372	34.41	.	Q	.	.	.	V	.
34.750	895.3682	33.54	.	Q	.	.	.	V	.
34.833	895.5933	32.69	.	Q	.	.	.	V	.
34.917	895.8124	31.83	.	Q	.	.	.	V	.
35.000	896.0258	30.98	.	Q	.	.	.	V	.
35.083	896.2333	30.14	.	Q	.	.	.	V	.
35.167	896.4346	29.23	.	Q	.	.	.	V	.
35.250	896.6296	28.30	.	Q	.	.	.	V	.
35.333	896.8185	27.44	.	Q	.	.	.	V	.
35.417	897.0016	26.57	.	Q	.	.	.	V	.
35.500	897.1788	25.73	.	Q	.	.	.	V	.
35.583	897.3502	24.89	.	Q	.	.	.	V	.
35.667	897.5157	24.04	.	Q	.	.	.	V	.
35.750	897.6756	23.21	.	Q	.	.	.	V	.
35.833	897.8298	22.39	.	Q	.	.	.	V	.
35.917	897.9786	21.61	.	Q	.	.	.	V	.
36.000	898.1230	20.97	.	Q	.	.	.	V	.

-----  
TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
(Note: 100% of Peak Flow Rate estimate assumed to have  
an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
0%	2165.0
10%	1605.0
20%	1335.0
30%	1035.0
40%	805.0
50%	665.0
60%	550.0
70%	450.0
80%	345.0
90%	235.0

=====

END OF FLOODSCx ROUTING ANALYSIS





\*\*\*\*\*

FLOOD ROUTING ANALYSIS
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)
(c) Copyright 1989-2013 Advanced Engineering Software (aes)
Ver. 20.0 Release Date: 06/01/2013 License ID 1237

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*
\* RMV PA-3 BODR 2022 - NODE 133C \*
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*
\* 5-YR EV JULY 2022 ROKAMOTO \*

FILE NAME: EV0533CS.DAT
TIME/DATE OF STUDY: 11:52 07/25/2022

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 133.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<

\*\*\*\*\*

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 61055.801 ACRES
BASEFLOW = 0.000 CFS/SQUARE-MILE
\*USER ENTERED "LAG" TIME = 3.690 HOURS
VALLEY (DEVELOPED) S-GRAPH SELECTED
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.474
LOW LOSS FRACTION = 0.826
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.22
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.44
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 0.60
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 1.11
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 1.63
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 2.85

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:
5-MINUTE FACTOR = 0.308
30-MINUTE FACTOR = 0.363
1-HOUR FACTOR = 0.408
3-HOUR FACTOR = 0.754
6-HOUR FACTOR = 0.891
24-HOUR FACTOR = 0.936

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 2.258

UNIT HYDROGRAPH DETERMINATION

Table with 3 columns: INTERVAL NUMBER, "S" GRAPH MEAN VALUES, UNIT HYDROGRAPH ORDINATES (CFS). Rows 1-48.

49	56.824	12134.100
50	58.703	13872.681
51	60.915	16330.462
52	63.101	16143.684
53	64.829	12757.530
54	66.371	11386.140
55	67.880	11139.506
56	69.636	12968.308
57	71.077	10642.969
58	72.443	10087.394
59	73.904	10782.680
60	75.306	10354.815
61	76.503	8837.378
62	77.506	7409.286
63	78.510	7412.498
64	79.514	7412.498
65	80.548	7634.401
66	81.610	7840.361
67	82.603	7331.037
68	83.554	7022.941
69	84.456	6665.383
70	85.317	6352.386
71	86.136	6049.135
72	86.838	5183.774
73	87.533	5131.101
74	88.172	4719.236
75	88.706	3940.123
76	89.237	3924.180
77	89.768	3922.547
78	90.268	3691.066
79	90.744	3510.682
80	91.219	3512.259
81	91.694	3509.104
82	92.153	3387.759
83	92.584	3181.798
84	93.014	3173.799
85	93.445	3180.221
86	93.871	3148.279
87	94.204	2455.359
88	94.490	2116.955
89	94.776	2113.744
90	95.064	2120.166
91	95.350	2116.955
92	95.637	2116.899
93	95.921	2094.590
94	96.130	1548.592
95	96.307	1305.957
96	96.484	1305.901
97	96.662	1312.323
98	96.839	1305.957
99	97.016	1305.901
100	97.193	1309.112
101	97.370	1309.112
102	97.547	1305.957
103	97.724	1309.112
104	97.902	1309.112
105	98.018	862.094
106	98.061	316.095

107	98.104	312.941
108	98.146	312.884
109	98.189	316.152
110	98.230	306.518
111	98.273	316.095
112	98.315	312.884
113	98.358	312.941
114	98.400	312.884
115	98.443	312.941
116	98.485	312.884
117	98.527	309.730
118	98.569	312.941
119	98.612	316.095
120	98.654	312.884
121	98.696	306.518
122	98.739	319.307
123	98.781	306.518
124	98.824	319.307
125	98.865	306.518
126	98.909	319.307
127	98.950	306.518
128	98.993	312.941
129	99.036	319.307
130	99.078	312.941
131	99.121	312.941
132	99.163	312.941
133	99.205	312.941
134	99.248	312.941
135	99.290	312.941
136	99.333	312.941
137	99.375	312.941
138	99.417	312.941
139	99.460	312.941
140	99.502	312.941
141	99.544	312.941
142	99.587	312.941
143	99.629	312.941
144	99.672	312.941
145	99.714	312.941
146	99.756	312.941
147	99.799	312.941
148	99.841	312.941
149	99.883	312.941
150	99.926	312.941
151	99.968	312.941
152	100.000	234.466

-----  
TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 11139.4180  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 2447.0598  
-----

2 4 - 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 FIVE-MINUTE UNIT INTERVALS(CFS)

(Note: Time indicated is at END of Each Unit Intervals)

TIME(HRS)	VOLUME(AF)	Q(CFS)	0.	700.0	1400.0	2100.0	2800.0
0.083	0.0047	0.68	Q	.	.	.	.
0.167	0.0186	2.03	Q	.	.	.	.
0.250	0.0419	3.39	Q	.	.	.	.
0.333	0.0746	4.75	Q	.	.	.	.
0.417	0.1167	6.11	Q	.	.	.	.
0.500	0.1682	7.48	Q	.	.	.	.
0.583	0.2292	8.85	Q	.	.	.	.
0.667	0.2998	10.25	Q	.	.	.	.
0.750	0.3835	12.14	Q	.	.	.	.
0.833	0.4815	14.23	Q	.	.	.	.
0.917	0.5940	16.33	Q	.	.	.	.
1.000	0.7210	18.44	Q	.	.	.	.
1.083	0.8626	20.57	Q	.	.	.	.
1.167	1.0266	23.81	Q	.	.	.	.
1.250	1.2171	27.66	Q	.	.	.	.
1.333	1.4349	31.62	Q	.	.	.	.
1.417	1.6860	36.47	Q	.	.	.	.
1.500	1.9726	41.61	Q	.	.	.	.
1.583	2.3012	47.71	Q	.	.	.	.
1.667	2.6736	54.08	Q	.	.	.	.
1.750	3.0881	60.18	Q	.	.	.	.
1.833	3.5445	66.27	Q	.	.	.	.
1.917	4.0432	72.40	VQ	.	.	.	.
2.000	4.5982	80.59	VQ	.	.	.	.
2.083	5.2097	88.79	VQ	.	.	.	.
2.167	5.8665	95.37	VQ	.	.	.	.
2.250	6.5687	101.96	VQ	.	.	.	.
2.333	7.3189	108.92	VQ	.	.	.	.
2.417	8.1256	117.13	VQ	.	.	.	.
2.500	8.9970	126.53	VQ	.	.	.	.
2.583	9.9233	134.49	VQ	.	.	.	.
2.667	10.8990	141.67	V Q	.	.	.	.
2.750	11.9243	148.88	V Q	.	.	.	.
2.833	13.0108	157.76	V Q	.	.	.	.
2.917	14.1603	166.90	V Q	.	.	.	.
3.000	15.3740	176.23	V Q	.	.	.	.
3.083	16.6664	187.66	V Q	.	.	.	.
3.167	18.0231	196.99	V Q	.	.	.	.
3.250	19.4285	204.07	V Q	.	.	.	.
3.333	20.9107	215.21	V Q	.	.	.	.
3.417	22.4737	226.95	V Q	.	.	.	.
3.500	24.1159	238.45	V Q	.	.	.	.
3.583	25.8358	249.74	V Q	.	.	.	.
3.667	27.6435	262.47	V Q	.	.	.	.
3.750	29.5437	275.92	V Q	.	.	.	.
3.833	31.5109	285.63	V Q	.	.	.	.
3.917	33.5434	295.12	V Q	.	.	.	.

4.000	35.6379	304.13	V	Q	.	.	.	.
4.083	37.7985	313.71	V	Q	.	.	.	.
4.167	40.0338	324.57	V	Q	.	.	.	.
4.250	42.3561	337.20	V	Q	.	.	.	.
4.333	44.7648	349.74	V	Q	.	.	.	.
4.417	47.2436	359.92	V	Q	.	.	.	.
4.500	49.7861	369.18	V	Q	.	.	.	.
4.583	52.3914	378.29	V	Q	.	.	.	.
4.667	55.0686	388.73	V	Q	.	.	.	.
4.750	57.8066	397.56	V	Q	.	.	.	.
4.833	60.6029	406.03	V	Q	.	.	.	.
4.917	63.4613	415.03	.V	Q	.	.	.	.
5.000	66.3797	423.76	.V	Q	.	.	.	.
5.083	69.3511	431.45	.V	Q	.	.	.	.
5.167	72.3687	438.16	.V	Q	.	.	.	.
5.250	75.4327	444.90	.V	Q	.	.	.	.
5.333	78.5434	451.67	.V	Q	.	.	.	.
5.417	81.7020	458.62	.V	Q	.	.	.	.
5.500	84.9097	465.76	.V	Q	.	.	.	.
5.583	88.1642	472.56	.V	Q	.	.	.	.
5.667	91.4643	479.18	.V	Q	.	.	.	.
5.750	94.8085	485.57	.V	Q	.	.	.	.
5.833	98.1954	491.78	.V	Q	.	.	.	.
5.917	101.6237	497.79	.V	Q	.	.	.	.
6.000	105.0895	503.23	.V	Q	.	.	.	.
6.083	108.5926	508.65	.V	Q	.	.	.	.
6.167	112.1312	513.81	.V	Q	.	.	.	.
6.250	115.7018	518.45	.V	Q	.	.	.	.
6.333	119.3045	523.11	.V	Q	.	.	.	.
6.417	122.9394	527.78	.V	Q	.	.	.	.
6.500	126.6055	532.33	.V	Q	.	.	.	.
6.583	130.3023	536.77	.V	Q	.	.	.	.
6.667	134.0299	541.24	.V	Q	.	.	.	.
6.750	137.7884	545.74	.V	Q	.	.	.	.
6.833	141.5775	550.18	.V	Q	.	.	.	.
6.917	145.3964	554.50	.V	Q	.	.	.	.
7.000	149.2452	558.85	.V	Q	.	.	.	.
7.083	153.1242	563.23	.V	Q	.	.	.	.
7.167	157.0334	567.62	.V	Q	.	.	.	.
7.250	160.9696	571.54	.V	Q	.	.	.	.
7.333	164.9314	575.26	.V	Q	.	.	.	.
7.417	168.9190	578.99	.V	Q	.	.	.	.
7.500	172.9326	582.77	.V	Q	.	.	.	.
7.583	176.9723	586.57	.V	Q	.	.	.	.
7.667	181.0385	590.41	.V	Q	.	.	.	.
7.750	185.1311	594.25	.V	Q	.	.	.	.
7.833	189.2479	597.75	.V	Q	.	.	.	.
7.917	193.3876	601.10	.V	Q	.	.	.	.
8.000	197.5507	604.48	.V	Q	.	.	.	.
8.083	201.7374	607.90	.V	Q	.	.	.	.
8.167	205.9477	611.34	.V	Q	.	.	.	.
8.250	210.1820	614.82	.V	Q	.	.	.	.
8.333	214.4405	618.33	.V	Q	.	.	.	.
8.417	218.7234	621.88	.V	Q	.	.	.	.
8.500	223.0310	625.46	.V	Q	.	.	.	.
8.583	227.3634	629.08	.V	Q	.	.	.	.
8.667	231.7211	632.73	.V	Q	.	.	.	.
8.750	236.1020	636.10	.V	Q	.	.	.	.

8.833	240.5036	639.12	.	V	Q.	.	.	.
8.917	244.9264	642.18	.	V	Q.	.	.	.
9.000	249.3704	645.27	.	V	Q.	.	.	.
9.083	253.8360	648.40	.	V	Q.	.	.	.
9.167	258.3234	651.57	.	V	Q.	.	.	.
9.250	262.8329	654.78	.	V	Q.	.	.	.
9.333	267.3647	658.03	.	V	Q.	.	.	.
9.417	271.9193	661.31	.	V	Q.	.	.	.
9.500	276.4967	664.65	.	V	Q.	.	.	.
9.583	281.0974	668.02	.	V	Q.	.	.	.
9.667	285.7216	671.44	.	V	Q.	.	.	.
9.750	290.3697	674.90	.	V	Q.	.	.	.
9.833	295.0419	678.41	.	V	Q.	.	.	.
9.917	299.7386	681.96	.	V	Q.	.	.	.
10.000	304.4602	685.57	.	V	Q.	.	.	.
10.083	309.2068	689.21	.	V	Q.	.	.	.
10.167	313.9790	692.92	.	V	Q.	.	.	.
10.250	318.7770	696.67	.	V	Q.	.	.	.
10.333	323.6013	700.49	.	V	Q	.	.	.
10.417	328.4522	704.34	.	V	Q	.	.	.
10.500	333.3300	708.27	.	V	Q	.	.	.
10.583	338.2353	712.24	.	V	Q	.	.	.
10.667	343.1683	716.27	.	V	Q	.	.	.
10.750	348.1295	720.37	.	V	Q	.	.	.
10.833	353.1194	724.53	.	V	Q	.	.	.
10.917	358.1382	728.74	.	V	Q	.	.	.
11.000	363.1867	733.03	.	V	Q	.	.	.
11.083	368.2650	737.38	.	V	Q	.	.	.
11.167	373.3739	741.81	.	V	Q	.	.	.
11.250	378.5137	746.29	.	V	Q	.	.	.
11.333	383.6849	750.86	.	V	Q	.	.	.
11.417	388.8881	755.50	.	V	Q	.	.	.
11.500	394.1237	760.22	.	V	Q	.	.	.
11.583	399.3924	765.01	.	V	Q	.	.	.
11.667	404.6947	769.89	.	V	Q	.	.	.
11.750	410.0312	774.85	.	V	.Q	.	.	.
11.833	415.4024	779.91	.	V	.Q	.	.	.
11.917	420.8091	785.04	.	V	.Q	.	.	.
12.000	426.2518	790.28	.	V	.Q	.	.	.
12.083	431.7394	796.81	.	V	.Q	.	.	.
12.167	437.2810	804.63	.	V	.Q	.	.	.
12.250	442.8770	812.54	.	V	.Q	.	.	.
12.333	448.5283	820.56	.	V	.Q	.	.	.
12.417	454.2352	828.65	.	V	.Q	.	.	.
12.500	459.9987	836.86	.	V	.Q	.	.	.
12.583	465.8194	845.16	.	V	.Q	.	.	.
12.667	471.6979	853.56	.	V	.Q	.	.	.
12.750	477.6397	862.75	.	V	.Q	.	.	.
12.833	483.6481	872.42	.	V	.Q	.	.	.
12.917	489.7237	882.18	.	V	.Q	.	.	.
13.000	495.8674	892.07	.	V	.Q	.	.	.
13.083	502.0803	902.10	.	V	.Q	.	.	.
13.167	508.3765	914.22	.	V	.Q	.	.	.
13.250	514.7645	927.53	.	V	.Q	.	.	.
13.333	521.2460	941.12	.	V	.Q	.	.	.
13.417	527.8328	956.40	.	V	.Q	.	.	.
13.500	534.5290	972.29	.	V	.Q	.	.	.
13.583	541.3469	989.96	.	V	.Q	.	.	.

13.667	548.2905	1008.21	.	V	.Q	.	.	.
13.750	555.3570	1026.06	.	V.	Q	.	.	.
13.833	562.5470	1043.99	.	V.	Q	.	.	.
13.917	569.8615	1062.07	.	V.	Q	.	.	.
14.000	577.3266	1083.93	.	V.	Q	.	.	.
14.083	584.9510	1107.07	.	V.	Q	.	.	.
14.167	592.7237	1128.58	.	V.	Q	.	.	.
14.250	600.6448	1150.14	.	V.	Q	.	.	.
14.333	608.7189	1172.37	.	V.	Q	.	.	.
14.417	616.9615	1196.82	.	V	Q	.	.	.
14.500	625.3873	1223.41	.	V	Q	.	.	.
14.583	633.9784	1247.43	.	V	Q	.	.	.
14.667	642.7256	1270.10	.	V	Q	.	.	.
14.750	651.6356	1293.72	.	V	Q	.	.	.
14.833	660.7310	1320.66	.	V	Q	.	.	.
14.917	670.0146	1347.99	.	V	Q.	.	.	.
15.000	679.4888	1375.65	.	.V	Q.	.	.	.
15.083	689.1788	1406.99	.	.V	Q	.	.	.
15.167	699.0721	1436.50	.	.V	Q	.	.	.
15.250	709.1474	1462.94	.	.V	Q	.	.	.
15.333	719.4547	1496.62	.	.V	.Q	.	.	.
15.417	729.9998	1531.15	.	.V	.Q	.	.	.
15.500	740.7709	1563.96	.	.V	.Q	.	.	.
15.583	751.7771	1598.10	.	.V	.Q	.	.	.
15.667	763.0396	1635.32	.	.V	.Q	.	.	.
15.750	774.5596	1672.70	.	.V	.Q	.	.	.
15.833	786.2881	1702.98	.	.V	.Q	.	.	.
15.917	798.2281	1733.69	.	.V	.Q	.	.	.
16.000	810.4102	1768.84	.	.V	.Q	.	.	.
16.083	822.9933	1827.06	.	.V	.Q	.	.	.
16.167	835.9559	1882.17	.	.V	.Q	.	.	.
16.250	849.1511	1915.94	.	.V	.Q	.	.	.
16.333	862.5775	1949.51	.	.V	.Q	.	.	.
16.417	876.2239	1981.47	.	.V	.Q	.	.	.
16.500	890.0840	2012.48	.	.V	.Q	.	.	.
16.583	904.1317	2039.72	.	.V	.Q	.	.	.
16.667	918.3851	2069.60	.	.V	.Q	.	.	.
16.750	932.9199	2110.45	.	.V	.Q	.	.	.
16.833	947.6696	2141.66	.	.V	.Q	.	.	.
16.917	962.5801	2165.00	.	.V	.Q	.	.	.
17.000	977.6561	2189.05	.	.V	.Q	.	.	.
17.083	992.9334	2218.26	.	.V	.Q	.	.	.
17.167	1008.6229	2278.12	.	.V	.Q	.	.	.
17.250	1024.5710	2315.66	.	.V	.Q	.	.	.
17.333	1040.6749	2338.28	.	.V	.Q	.	.	.
17.417	1057.1337	2389.80	.	.V	.Q	.	.	.
17.500	1073.8455	2426.55	.	.V	.Q	.	.	.
17.583	1090.9581	2484.76	.	.V	.Q	.	.	.
17.667	1108.2908	2516.69	.	.V	.Q	.	.	.
17.750	1125.7050	2528.55	.	.V	.Q	.	.	.
17.833	1143.2200	2543.19	.	.V	.Q	.	.	.
17.917	1160.8988	2566.97	.	.V	.Q	.	.	.
18.000	1179.2014	2657.55	.	.V	.Q	.	.	.
18.083	1197.5859	2669.43	.	.V	.Q	.	.	.
18.167	1215.6378	2621.13	.	.V	.Q	.	.	.
18.250	1233.7799	2634.23	.	.V	.Q	.	.	.
18.333	1252.1411	2666.04	.	.V	.Q	.	.	.
18.417	1270.8503	2716.57	.	.V	.Q	.	.	.

18.500	1289.8364	2756.78	.	.	.V	.	Q.
18.583	1308.4896	2708.44	.	.	.V	.	Q.
18.667	1326.9355	2678.35	.	.	.V	.	Q.
18.750	1345.3701	2676.70	.	.	.V	.	Q.
18.833	1364.2080	2735.27	.	.	.V	.	Q.
18.917	1383.1161	2745.45	.	.	.V	.	Q.
19.000	1401.9908	2740.62	.	.	.V	.	Q.
19.083	1421.1971	2788.75	.	.	.V	.	Q.
19.167	1439.8318	2705.74	.	.	.V	.	Q.
19.250	1457.9333	2628.35	.	.	.V	.	Q.
19.333	1476.9838	2766.13	.	.	.V	.	Q.
19.417	1496.1171	2778.16	.	.	.V	.	Q.
19.500	1515.0856	2754.23	.	.	.V	.	Q.
19.583	1533.8431	2723.61	.	.	.V	.	Q.
19.667	1552.8130	2754.42	.	.	.V	.	Q.
19.750	1571.8146	2759.03	.	.	.V	.	Q.
19.833	1589.7841	2609.17	.	.	.V	.	Q.
19.917	1607.5719	2582.80	.	.	.V	.	Q.
20.000	1625.1084	2546.30	.	.	.V	.	Q.
20.083	1642.7057	2555.13	.	.	.V	.	Q.
20.167	1660.5251	2587.39	.	.	.V	.	Q.
20.250	1678.6460	2631.15	.	.	.V	.	Q.
20.333	1696.5051	2593.15	.	.	.V	.	Q.
20.417	1713.5734	2478.32	.	.	.V	.	Q.
20.500	1730.2382	2419.73	.	.	.V	.	Q.
20.583	1746.7379	2395.77	.	.	.V	.	Q.
20.667	1763.3920	2418.17	.	.	.V	.	Q.
20.750	1779.4536	2332.15	.	.	.V	.	Q.
20.833	1795.2423	2292.52	.	.	.V	.	Q.
20.917	1810.9507	2280.86	.	.	.V	.	Q.
21.000	1826.3987	2243.04	.	.	.V	.	Q.
21.083	1841.3500	2170.92	.	.	.VQ	.	
21.167	1855.8403	2104.00	.	.	.Q	.	
21.250	1870.1327	2075.25	.	.	.QV	.	
21.333	1884.1846	2040.33	.	.	.QV	.	
21.417	1898.0371	2011.38	.	.	.Q.V	.	
21.500	1911.6807	1981.05	.	.	.Q.V	.	
21.583	1925.0023	1934.31	.	.	.Q.V	.	
21.667	1938.0006	1887.36	.	.	.Q.V	.	
21.750	1950.6749	1840.31	.	.	.Q.V	.	
21.833	1963.0806	1801.30	.	.	.Q.V	.	
21.917	1975.2092	1761.08	.	.	.Q.V	.	
22.000	1986.9745	1708.32	.	.	.Q.V	.	
22.083	1998.5138	1675.50	.	.	.Q.V	.	
22.167	2009.7601	1632.98	.	.	.Q.V	.	
22.250	2020.6387	1579.56	.	.	.Q.V	.	
22.333	2031.2739	1544.25	.	.	.Q.V	.	
22.417	2041.6930	1512.85	.	.	.Q.V	.	
22.500	2051.8650	1476.96	.	.	.Q.V	.	
22.583	2061.8069	1443.57	.	.	.Q.V	.	
22.667	2071.5391	1413.11	.	.	.Q.V	.	
22.750	2081.0767	1384.87	.	.	.Q.V	.	
22.833	2090.3987	1353.55	.	.	.Q.V	.	
22.917	2099.4888	1319.88	.	.	.Q.V	.	
23.000	2108.3931	1292.89	.	.	.Q.V	.	
23.083	2117.1238	1267.69	.	.	.Q.V	.	
23.167	2125.6895	1243.75	.	.	.Q.V	.	
23.250	2133.9885	1205.01	.	.	.Q.V	.	

23.333	2142.0872	1175.91	.	.	.Q	.	V
23.417	2150.0432	1155.21	.	.	.Q	.	V
23.500	2157.8625	1135.36	.	.	.Q	.	V
23.583	2165.5437	1115.30	.	.	.Q	.	V
23.667	2173.0830	1094.72	.	.	.Q	.	V
23.750	2180.4749	1073.29	.	.	.Q	.	V
23.833	2187.6367	1039.90	.	.	.Q	.	V
23.917	2194.6296	1015.38	.	.	.Q	.	V
24.000	2201.5051	998.33	.	.	.Q	.	V
24.083	2208.2676	981.89	.	.	.Q	.	V
24.167	2214.9158	965.31	.	.	.Q	.	V
24.250	2221.4604	950.30	.	.	.Q	.	V
24.333	2227.9053	935.78	.	.	.Q	.	V
24.417	2234.2510	921.40	.	.	.Q	.	V
24.500	2240.5010	907.49	.	.	.Q	.	V
24.583	2246.6545	893.49	.	.	.Q	.	V
24.667	2252.7041	878.41	.	.	.Q	.	V
24.750	2258.5684	851.49	.	.	.Q	.	V
24.833	2264.2415	823.74	.	.	.Q	.	V
24.917	2269.8237	810.56	.	.	.Q	.	V
25.000	2275.3186	797.86	.	.	.Q	.	V
25.083	2280.7241	784.88	.	.	.Q	.	V
25.167	2286.0259	769.82	.	.	.Q	.	V
25.250	2291.2295	755.55	.	.	.Q	.	V
25.333	2296.3354	741.37	.	.	.Q	.	V
25.417	2301.3389	726.51	.	.	.Q	.	V
25.500	2306.2385	711.42	.	.	.Q	.	V
25.583	2311.0286	695.51	.	.	.Q	.	V
25.667	2315.7078	679.42	.	.	.Q	.	V
25.750	2320.2827	664.27	.	.	.Q	.	V
25.833	2324.7646	650.79	.	.	.Q	.	V
25.917	2329.1572	637.81	.	.	.Q	.	V
26.000	2333.4463	622.78	.	.	.Q	.	V
26.083	2337.6326	607.86	.	.	.Q	.	V
26.167	2341.7319	595.25	.	.	.Q	.	V
26.250	2345.7412	582.16	.	.	.Q	.	V
26.333	2349.6633	569.49	.	.	.Q	.	V
26.417	2353.4863	555.09	.	.	.Q	.	V
26.500	2357.2075	540.32	.	.	.Q	.	V
26.583	2360.8335	526.51	.	.	.Q	.	V
26.667	2364.3738	514.04	.	.	.Q	.	V
26.750	2367.8306	501.91	.	.	.Q	.	V
26.833	2371.1960	488.66	.	.	.Q	.	V
26.917	2374.4707	475.48	.	.	.Q	.	V
27.000	2377.6543	462.27	.	.	.Q	.	V
27.083	2380.7339	447.17	.	.	.Q	.	V
27.167	2383.7251	434.32	.	.	.Q	.	V
27.250	2386.6445	423.88	.	.	.Q	.	V
27.333	2389.4648	409.52	.	.	.Q	.	V
27.417	2392.1833	394.74	.	.	.Q	.	V
27.500	2394.8030	380.36	.	.	.Q	.	V
27.583	2397.3262	366.37	.	.	.Q	.	V
27.667	2399.7441	351.09	.	.	.Q	.	V
27.750	2402.0532	335.27	.	.	.Q	.	V
27.833	2404.2803	323.36	.	.	.Q	.	V
27.917	2406.4277	311.81	.	.	.Q	.	V
28.000	2408.5007	301.01	.	.	.Q	.	V
28.083	2410.4990	290.16	.	.	.Q	.	V

28.167	2412.4146	278.12	. Q	.	.	.	V.
28.250	2414.2354	264.39	. Q	.	.	.	V.
28.333	2415.9631	250.88	. Q	.	.	.	V.
28.417	2417.6157	239.95	. Q	.	.	.	V.
28.500	2419.1992	229.92	. Q	.	.	.	V.
28.583	2420.7134	219.84	. Q	.	.	.	V.
28.667	2422.1350	206.41	. Q	.	.	.	V.
28.750	2423.4514	191.13	. Q	.	.	.	V.
28.833	2424.7068	182.27	. Q	.	.	.	V.
28.917	2425.8984	173.04	. Q	.	.	.	V.
29.000	2427.0288	164.13	. Q	.	.	.	V.
29.083	2428.1033	155.99	. Q	.	.	.	V.
29.167	2429.1287	148.89	. Q	.	.	.	V.
29.250	2430.1052	141.80	. Q	.	.	.	V.
29.333	2431.0332	134.74	.Q	.	.	.	V.
29.417	2431.9116	127.54	.Q	.	.	.	V.
29.500	2432.7395	120.22	.Q	.	.	.	V.
29.583	2433.5198	113.29	.Q	.	.	.	V.
29.667	2434.2546	106.70	.Q	.	.	.	V.
29.750	2434.9482	100.70	.Q	.	.	.	V.
29.833	2435.6023	94.98	.Q	.	.	.	V.
29.917	2436.2188	89.51	.Q	.	.	.	V.
30.000	2436.8020	84.70	.Q	.	.	.	V.
30.083	2437.3528	79.97	.Q	.	.	.	V.
30.167	2437.8733	75.57	.Q	.	.	.	V.
30.250	2438.3674	71.75	.Q	.	.	.	V.
30.333	2438.8357	67.98	Q	.	.	.	V.
30.417	2439.2781	64.24	Q	.	.	.	V.
30.500	2439.6960	60.69	Q	.	.	.	V.
30.583	2440.0906	57.29	Q	.	.	.	V.
30.667	2440.4626	54.02	Q	.	.	.	V.
30.750	2440.8145	51.07	Q	.	.	.	V.
30.833	2441.1467	48.24	Q	.	.	.	V.
30.917	2441.4607	45.58	Q	.	.	.	V.
31.000	2441.7563	42.94	Q	.	.	.	V.
31.083	2442.0342	40.33	Q	.	.	.	V.
31.167	2442.2942	37.76	Q	.	.	.	V.
31.250	2442.5400	35.70	Q	.	.	.	V.
31.333	2442.7734	33.91	Q	.	.	.	V.
31.417	2442.9946	32.13	Q	.	.	.	V.
31.500	2443.2036	30.36	Q	.	.	.	V.
31.583	2443.4006	28.61	Q	.	.	.	V.
31.667	2443.5857	26.87	Q	.	.	.	V.
31.750	2443.7590	25.17	Q	.	.	.	V.
31.833	2443.9233	23.86	Q	.	.	.	V.
31.917	2444.0801	22.74	Q	.	.	.	V.
32.000	2444.2290	21.63	Q	.	.	.	V.
32.083	2444.3704	20.53	Q	.	.	.	V.
32.167	2444.5042	19.44	Q	.	.	.	V.
32.250	2444.6306	18.35	Q	.	.	.	V.
32.333	2444.7495	17.28	Q	.	.	.	V.
32.417	2444.8611	16.21	Q	.	.	.	V.
32.500	2444.9656	15.16	Q	.	.	.	V.
32.583	2445.0627	14.11	Q	.	.	.	V.
32.667	2445.1528	13.07	Q	.	.	.	V.
32.750	2445.2378	12.35	Q	.	.	.	V.
32.833	2445.3206	12.03	Q	.	.	.	V.
32.917	2445.4011	11.71	Q	.	.	.	V.

33.000	2445.4795	11.39	Q	.	.	.	V.
33.083	2445.5559	11.08	Q	.	.	.	V.
33.167	2445.6301	10.78	Q	.	.	.	V.
33.250	2445.7021	10.47	Q	.	.	.	V.
33.333	2445.7722	10.17	Q	.	.	.	V.
33.417	2445.8401	9.87	Q	.	.	.	V.
33.500	2445.9060	9.57	Q	.	.	.	V.
33.583	2445.9700	9.28	Q	.	.	.	V.
33.667	2446.0320	8.99	Q	.	.	.	V.
33.750	2446.0920	8.70	Q	.	.	.	V.
33.833	2446.1501	8.42	Q	.	.	.	V.
33.917	2446.2061	8.13	Q	.	.	.	V.
34.000	2446.2603	7.86	Q	.	.	.	V.
34.083	2446.3125	7.58	Q	.	.	.	V.
34.167	2446.3628	7.30	Q	.	.	.	V.
34.250	2446.4111	7.03	Q	.	.	.	V.
34.333	2446.4578	6.76	Q	.	.	.	V.
34.417	2446.5024	6.50	Q	.	.	.	V.
34.500	2446.5454	6.23	Q	.	.	.	V.
34.583	2446.5864	5.97	Q	.	.	.	V.
34.667	2446.6257	5.70	Q	.	.	.	V.
34.750	2446.6631	5.44	Q	.	.	.	V.
34.833	2446.6987	5.18	Q	.	.	.	V.
34.917	2446.7327	4.93	Q	.	.	.	V.
35.000	2446.7649	4.67	Q	.	.	.	V.
35.083	2446.7954	4.42	Q	.	.	.	V.
35.167	2446.8242	4.17	Q	.	.	.	V.
35.250	2446.8513	3.92	Q	.	.	.	V.
35.333	2446.8767	3.68	Q	.	.	.	V.
35.417	2446.9004	3.43	Q	.	.	.	V.
35.500	2446.9224	3.19	Q	.	.	.	V.
35.583	2446.9426	2.95	Q	.	.	.	V.
35.667	2446.9612	2.71	Q	.	.	.	V.
35.750	2446.9783	2.47	Q	.	.	.	V.
35.833	2446.9937	2.23	Q	.	.	.	V.
35.917	2447.0073	2.00	Q	.	.	.	V.
36.000	2447.0195	1.76	Q	.	.	.	V.

-----

TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:

(Note: 100% of Peak Flow Rate estimate assumed to have an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
0%	2165.0
10%	1460.0
20%	1165.0
30%	740.0
40%	565.0
50%	460.0
60%	380.0
70%	310.0
80%	235.0
90%	165.0

=====

END OF FLOODSCx ROUTING ANALYSIS



\*\*\*\*\*

FLOOD ROUTING ANALYSIS  
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)  
(c) Copyright 1989-2013 Advanced Engineering Software (aes)  
Ver. 20.0 Release Date: 06/01/2013 License ID 1237

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*  
\* RMV PA-3 ROMP AMENDMENT 2022 - NODE 133T \*  
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*  
\* 5-YR EV OCT 2022 ROKAMOTO \*  
\*\*\*\*\*

FILE NAME: EV0533TS.DAT  
TIME/DATE OF STUDY: 11:09 10/25/2022

\*\*\*\*\*

FLOW PROCESS FROM NODE 13010.00 TO NODE 133.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<

=====

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 6638.200 ACRES  
BASEFLOW = 0.000 CFS/SQUARE-MILE  
\*USER ENTERED "LAG" TIME = 1.476 HOURS  
VALLEY (DEVELOPED) S-GRAPH SELECTED  
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.398  
LOW LOSS FRACTION = 0.764  
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.18  
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.41  
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 0.55  
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 0.92  
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 1.27  
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 2.12

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:  
5-MINUTE FACTOR = 0.744  
30-MINUTE FACTOR = 0.744  
1-HOUR FACTOR = 0.744  
3-HOUR FACTOR = 0.959  
6-HOUR FACTOR = 0.978  
24-HOUR FACTOR = 0.986

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES  
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 5.646

UNIT HYDROGRAPH DETERMINATION

INTERVAL NUMBER	"S" GRAPH MEAN VALUES	UNIT HYDROGRAPH ORDINATES (CFS)
1	0.323	259.003
2	0.968	518.007
3	1.613	518.007
4	2.395	627.561
5	3.375	786.931
6	4.664	1035.145
7	6.627	1575.320
8	9.247	2103.244
9	12.120	2306.832
10	15.417	2646.715
11	18.685	2623.797
12	22.220	2837.612
13	25.899	2953.907
14	29.528	2913.452
15	33.973	3568.024
16	38.060	3281.204
17	43.093	4040.775
18	48.517	4353.888
19	53.219	3774.959
20	57.323	3294.676
21	62.494	4151.480
22	66.744	3412.430
23	70.701	3176.293
24	74.245	2845.430
25	77.255	2416.385
26	79.777	2024.205
27	82.348	2064.231
28	84.667	1861.980
29	86.661	1600.647
30	88.292	1309.248
31	89.632	1075.612
32	90.862	987.854
33	92.034	940.710
34	93.121	872.950
35	94.113	796.223
36	94.848	590.162
37	95.565	575.572
38	96.173	487.545
39	96.617	356.869
40	97.060	355.344
41	97.503	355.620
42	97.921	336.185
43	98.093	137.609
44	98.199	84.843
45	98.305	85.259
46	98.411	84.983
47	98.516	84.983
48	98.623	85.259



49	98.728	84.708
50	98.834	84.983
51	98.940	84.983
52	99.046	85.259
53	99.152	84.983
54	99.258	84.983
55	99.364	84.983
56	99.469	84.983
57	99.575	84.983
58	99.681	84.983
59	99.787	84.983
60	99.893	84.983
61	99.999	84.983
62	100.000	0.980

-----  
TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 842.4324  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 314.8659  
-----

=====  
2 4 - 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 FIVE-MINUTE UNIT INTERVALS (CFS)  
(Note: Time indicated is at END of Each Unit Intervals)

TIME (HRS)	VOLUME (AF)	Q (CFS)	0.	225.0	450.0	675.0	900.0
0.083	0.0012	0.17	Q	.	.	.	.
0.167	0.0046	0.50	Q	.	.	.	.
0.250	0.0104	0.84	Q	.	.	.	.
0.333	0.0190	1.25	Q	.	.	.	.
0.417	0.0312	1.76	Q	.	.	.	.
0.500	0.0480	2.44	Q	.	.	.	.
0.583	0.0719	3.47	Q	.	.	.	.
0.667	0.1053	4.84	Q	.	.	.	.
0.750	0.1490	6.36	Q	.	.	.	.
0.833	0.2048	8.09	Q	.	.	.	.
0.917	0.2724	9.82	Q	.	.	.	.
1.000	0.3529	11.69	Q	.	.	.	.
1.083	0.4469	13.64	Q	.	.	.	.
1.167	0.5541	15.58	Q	.	.	.	.
1.250	0.6777	17.94	Q	.	.	.	.
1.333	0.8163	20.13	Q	.	.	.	.
1.417	0.9734	22.81	VQ	.	.	.	.
1.500	1.1505	25.71	VQ	.	.	.	.
1.583	1.3450	28.24	VQ	.	.	.	.
1.667	1.5548	30.47	VQ	.	.	.	.
1.750	1.7839	33.27	VQ	.	.	.	.
1.833	2.0290	35.59	VQ	.	.	.	.
1.917	2.2891	37.77	VQ	.	.	.	.
2.000	2.5628	39.74	VQ	.	.	.	.
2.083	2.8482	41.44	VQ	.	.	.	.
2.167	3.1436	42.89	VQ	.	.	.	.
2.250	3.4493	44.38	VQ	.	.	.	.
2.333	3.7643	45.74	V Q	.	.	.	.
2.417	4.0875	46.94	V Q	.	.	.	.
2.500	4.4177	47.95	V Q	.	.	.	.
2.583	4.7539	48.81	V Q	.	.	.	.
2.667	5.0957	49.62	V Q	.	.	.	.
2.750	5.4428	50.41	V Q	.	.	.	.
2.833	5.7951	51.15	V Q	.	.	.	.
2.917	6.1522	51.85	V Q	.	.	.	.
3.000	6.5132	52.42	V Q	.	.	.	.
3.083	6.8781	52.98	V Q	.	.	.	.
3.167	7.2464	53.49	V Q	.	.	.	.
3.250	7.6177	53.91	V Q	.	.	.	.
3.333	7.9920	54.34	.VQ	.	.	.	.
3.417	8.3692	54.77	.VQ	.	.	.	.
3.500	8.7493	55.19	.VQ	.	.	.	.
3.583	9.1314	55.48	.VQ	.	.	.	.
3.667	9.5153	55.75	.VQ	.	.	.	.
3.750	9.9011	56.01	.VQ	.	.	.	.
3.833	10.2887	56.28	.VQ	.	.	.	.
3.917	10.6781	56.55	.VQ	.	.	.	.

4.000	11.0695	56.82	.VQ	.	.	.	.
4.083	11.4627	57.09	.VQ	.	.	.	.
4.167	11.8578	57.37	.VQ	.	.	.	.
4.250	12.2548	57.65	.VQ	.	.	.	.
4.333	12.6537	57.93	.VQ	.	.	.	.
4.417	13.0547	58.21	.VQ	.	.	.	.
4.500	13.4575	58.50	.VQ	.	.	.	.
4.583	13.8624	58.79	.VQ	.	.	.	.
4.667	14.2693	59.08	.VQ	.	.	.	.
4.750	14.6782	59.37	.VQ	.	.	.	.
4.833	15.0891	59.67	.VQ	.	.	.	.
4.917	15.5021	59.97	.VQ	.	.	.	.
5.000	15.9172	60.27	. Q	.	.	.	.
5.083	16.3344	60.58	. Q	.	.	.	.
5.167	16.7534	60.83	. Q	.	.	.	.
5.250	17.1741	61.09	. Q	.	.	.	.
5.333	17.5966	61.34	. Q	.	.	.	.
5.417	18.0209	61.61	. Q	.	.	.	.
5.500	18.4470	61.87	. Q	.	.	.	.
5.583	18.8749	62.14	. Q	.	.	.	.
5.667	19.3047	62.41	. Q	.	.	.	.
5.750	19.7365	62.68	. Q	.	.	.	.
5.833	20.1701	62.96	. Q	.	.	.	.
5.917	20.6056	63.24	. Q	.	.	.	.
6.000	21.0431	63.52	. Q	.	.	.	.
6.083	21.4826	63.81	. Q	.	.	.	.
6.167	21.9240	64.10	. Q	.	.	.	.
6.250	22.3675	64.39	. Q	.	.	.	.
6.333	22.8130	64.69	. Q	.	.	.	.
6.417	23.2606	64.99	. Q	.	.	.	.
6.500	23.7103	65.30	. QV	.	.	.	.
6.583	24.1622	65.61	. QV	.	.	.	.
6.667	24.6161	65.92	. QV	.	.	.	.
6.750	25.0723	66.23	. QV	.	.	.	.
6.833	25.5306	66.55	. QV	.	.	.	.
6.917	25.9912	66.88	. QV	.	.	.	.
7.000	26.4541	67.20	. QV	.	.	.	.
7.083	26.9192	67.54	. Q	.	.	.	.
7.167	27.3866	67.87	. Q	.	.	.	.
7.250	27.8564	68.22	. Q	.	.	.	.
7.333	28.3286	68.56	. Q	.	.	.	.
7.417	28.8032	68.91	. Q	.	.	.	.
7.500	29.2803	69.27	. Q	.	.	.	.
7.583	29.7598	69.63	. Q	.	.	.	.
7.667	30.2418	69.99	. Q	.	.	.	.
7.750	30.7264	70.36	. Q	.	.	.	.
7.833	31.2136	70.74	. Q	.	.	.	.
7.917	31.7034	71.12	. QV	.	.	.	.
8.000	32.1958	71.50	. QV	.	.	.	.
8.083	32.6910	71.90	. QV	.	.	.	.
8.167	33.1888	72.29	. QV	.	.	.	.
8.250	33.6895	72.70	. QV	.	.	.	.
8.333	34.1930	73.10	. QV	.	.	.	.
8.417	34.6993	73.52	. QV	.	.	.	.
8.500	35.2085	73.94	. QV	.	.	.	.
8.583	35.7207	74.37	. QV	.	.	.	.
8.667	36.2358	74.80	. QV	.	.	.	.
8.750	36.7540	75.24	. QV	.	.	.	.

8.833	37.2753	75.69	. QV	.	.	.	.
8.917	37.7997	76.15	. QV	.	.	.	.
9.000	38.3273	76.61	. QV	.	.	.	.
9.083	38.8581	77.08	. QV	.	.	.	.
9.167	39.3922	77.55	. Q V	.	.	.	.
9.250	39.9297	78.04	. Q V	.	.	.	.
9.333	40.4705	78.53	. Q V	.	.	.	.
9.417	41.0149	79.03	. Q V	.	.	.	.
9.500	41.5626	79.54	. Q V	.	.	.	.
9.583	42.1140	80.06	. Q V	.	.	.	.
9.667	42.6690	80.59	. Q V	.	.	.	.
9.750	43.2278	81.13	. Q V	.	.	.	.
9.833	43.7902	81.67	. Q V	.	.	.	.
9.917	44.3565	82.23	. Q V	.	.	.	.
10.000	44.9267	82.79	. Q V	.	.	.	.
10.083	45.5009	83.37	. Q V	.	.	.	.
10.167	46.0791	83.95	. Q V	.	.	.	.
10.250	46.6614	84.56	. Q V	.	.	.	.
10.333	47.2480	85.16	. Q V	.	.	.	.
10.417	47.8388	85.79	. Q V	.	.	.	.
10.500	48.4339	86.42	. Q V	.	.	.	.
10.583	49.0336	87.07	. Q V	.	.	.	.
10.667	49.6377	87.72	. Q V	.	.	.	.
10.750	50.2465	88.40	. Q V	.	.	.	.
10.833	50.8600	89.08	. Q V	.	.	.	.
10.917	51.4783	89.78	. Q V	.	.	.	.
11.000	52.1015	90.49	. Q V	.	.	.	.
11.083	52.7298	91.23	. Q V	.	.	.	.
11.167	53.3632	91.97	. Q V	.	.	.	.
11.250	54.0018	92.73	. Q V	.	.	.	.
11.333	54.6458	93.51	. Q V	.	.	.	.
11.417	55.2953	94.31	. Q V	.	.	.	.
11.500	55.9504	95.12	. Q V	.	.	.	.
11.583	56.6113	95.96	. Q V	.	.	.	.
11.667	57.2780	96.80	. Q V	.	.	.	.
11.750	57.9507	97.68	. Q V	.	.	.	.
11.833	58.6296	98.57	. Q V	.	.	.	.
11.917	59.3148	99.49	. Q V	.	.	.	.
12.000	60.0064	100.43	. Q V	.	.	.	.
12.083	60.7056	101.52	. Q V	.	.	.	.
12.167	61.4132	102.75	. Q V	.	.	.	.
12.250	62.1296	104.02	. Q V	.	.	.	.
12.333	62.8552	105.36	. Q V	.	.	.	.
12.417	63.5908	106.81	. Q V	.	.	.	.
12.500	64.3374	108.40	. Q V	.	.	.	.
12.583	65.0970	110.30	. Q V	.	.	.	.
12.667	65.8716	112.47	. Q V	.	.	.	.
12.750	66.6621	114.78	. Q V	.	.	.	.
12.833	67.4698	117.29	. Q V	.	.	.	.
12.917	68.2951	119.83	. Q V	.	.	.	.
13.000	69.1388	122.51	. Q V	.	.	.	.
13.083	70.0018	125.30	. Q V	.	.	.	.
13.167	70.8841	128.11	. Q V	.	.	.	.
13.250	71.7883	131.29	. Q V	.	.	.	.
13.333	72.7138	134.38	. Q V	.	.	.	.
13.417	73.6635	137.89	. Q V	.	.	.	.
13.500	74.6387	141.60	. Q V	.	.	.	.
13.583	75.6381	145.11	. Q V	.	.	.	.

13.667	76.6604	148.44	.	Q	V.	.	.	.
13.750	77.7091	152.27	.	Q	V.	.	.	.
13.833	78.7821	155.79	.	Q	V	.	.	.
13.917	79.8792	159.30	.	Q	V	.	.	.
14.000	80.9997	162.71	.	Q	V	.	.	.
14.083	82.1452	166.33	.	Q	V	.	.	.
14.167	83.3169	170.13	.	Q	V	.	.	.
14.250	84.5158	174.07	.	Q	V	.	.	.
14.333	85.7425	178.12	.	Q	V	.	.	.
14.417	86.9985	182.36	.	Q	.V	.	.	.
14.500	88.2852	186.84	.	Q	.V	.	.	.
14.583	89.6075	191.99	.	Q	.V	.	.	.
14.667	90.9699	197.82	.	Q	.V	.	.	.
14.750	92.3750	204.02	.	Q	.V	.	.	.
14.833	93.8260	210.69	.	Q	.V	.	.	.
14.917	95.3237	217.47	.	Q	.V	.	.	.
15.000	96.8700	224.52	.	Q	.V	.	.	.
15.083	98.4671	231.89	.	Q	V	.	.	.
15.167	100.1153	239.32	.	Q	V	.	.	.
15.250	101.8212	247.70	.	.	.QV	.	.	.
15.333	103.5837	255.91	.	.	.Q V	.	.	.
15.417	105.4067	264.70	.	.	.Q V	.	.	.
15.500	107.2901	273.47	.	.	.QV	.	.	.
15.583	109.2312	281.85	.	.	.QV	.	.	.
15.667	111.2266	289.73	.	.	.Q V	.	.	.
15.750	113.2861	299.04	.	.	.QV	.	.	.
15.833	115.4053	307.70	.	.	.QV	.	.	.
15.917	117.5817	316.02	.	.	.Q	.	.	.
16.000	119.8272	326.05	.	.	.QV	.	.	.
16.083	122.3072	360.09	.	.	.VQ	.	.	.
16.167	125.0031	391.45	.	.	.V Q	.	.	.
16.250	127.7602	400.32	.	.	.VQ	.	.	.
16.333	130.6527	419.99	.	.	.V Q	.	.	.
16.417	133.7293	446.73	.	.	.V Q.	.	.	.
16.500	137.0741	485.67	.	.	.V .Q	.	.	.
16.583	140.8598	549.69	.	.	.V .Q	.	.	.
16.667	145.0597	609.82	.	.	.V .Q	.	.	.
16.750	149.4471	637.06	.	.	.V .Q	.	.	.
16.833	154.0719	671.51	.	.	.V .Q	.	.	.
16.917	158.7265	675.85	.	.	.V .Q	.	.	.
17.000	163.5582	701.57	.	.	.V .Q	.	.	.
17.083	168.4892	715.97	.	.	.V .Q	.	.	.
17.167	173.4606	721.85	.	.	.V .Q	.	.	.
17.250	178.8666	784.95	.	.	.V .Q	.	.	.
17.333	184.1549	767.86	.	.	.V .Q	.	.	.
17.417	189.9587	842.71	.	.	.V .Q	.	.	.
17.500	195.9175	865.22	.	.	.V .Q	.	.	.
17.583	201.4521	803.61	.	.	.V .Q	.	.	.
17.667	206.6686	757.44	.	.	.V .Q	.	.	.
17.750	212.3445	824.14	.	.	.V .Q	.	.	.
17.833	217.4760	745.08	.	.	.V .Q	.	.	.
17.917	222.3559	708.57	.	.	.V .Q	.	.	.
18.000	226.9090	661.11	.	.	.VQ.	.	.	.
18.083	231.0908	607.20	.	.	.Q V.	.	.	.
18.167	234.9413	559.09	.	.	.Q V.	.	.	.
18.250	238.7211	548.82	.	.	.Q V	.	.	.
18.333	242.2736	515.82	.	.	.Q V	.	.	.
18.417	245.5452	475.04	.	.	.Q .V	.	.	.

18.500	248.5165	431.44	.	.	.Q.	.	.V	.
18.583	251.2467	396.42	.	.	.Q	.	.V	.
18.667	253.8377	376.22	.	.	.Q	.	.V	.
18.750	256.3086	358.78	.	.	.Q	.	.V	.
18.833	258.6474	339.59	.	.	.Q	.	.V	.
18.917	260.8447	319.05	.	.	.Q	.	.V	.
19.000	262.8324	288.61	.	.	.Q	.	.V	.
19.083	264.7348	276.22	.	.	.Q	.	.V	.
19.167	266.5095	257.69	.	.	.Q	.	.V	.
19.250	268.1350	236.03	.	.	.Q	.	.V	.
19.333	269.6974	226.86	.	.	.Q	.	.V	.
19.417	271.1975	217.81	.	.	.Q	.	.V	.
19.500	272.6140	205.67	.	.	.Q.	.	.V	.
19.583	273.8443	178.64	.	.	.Q	.	.V	.
19.667	274.9916	166.59	.	.	.Q	.	.V	.
19.750	276.0935	159.99	.	.	.Q	.	.V	.
19.833	277.1559	154.26	.	.	.Q	.	.V	.
19.917	278.1793	148.60	.	.	.Q	.	.V	.
20.000	279.1674	143.48	.	.	.Q	.	.V	.
20.083	280.1228	138.72	.	.	.Q	.	.V	.
20.167	281.0491	134.50	.	.	.Q	.	.V	.
20.250	281.9482	130.54	.	.	.Q	.	.V	.
20.333	282.8216	126.83	.	.	.Q	.	.V	.
20.417	283.6709	123.31	.	.	.Q	.	.V	.
20.500	284.4993	120.28	.	.	.Q	.	.V	.
20.583	285.3098	117.68	.	.	.Q	.	.V	.
20.667	286.1035	115.25	.	.	.Q	.	.V	.
20.750	286.8811	112.91	.	.	.Q	.	.V	.
20.833	287.6425	110.55	.	.	.Q	.	.V	.
20.917	288.3880	108.25	.	.	.Q	.	.V	.
21.000	289.1173	105.90	.	.	.Q	.	.V	.
21.083	289.8261	102.91	.	.	.Q	.	.V	.
21.167	290.4659	92.90	.	.	.Q	.	.V	.
21.250	291.0917	90.87	.	.	.Q	.	.V	.
21.333	291.7062	89.23	.	.	.Q	.	.V	.
21.417	292.3102	87.71	.	.	.Q	.	.V	.
21.500	292.9031	86.09	.	.	.Q	.	.V	.
21.583	293.4860	84.63	.	.	.Q	.	.V	.
21.667	294.0594	83.26	.	.	.Q	.	.V	.
21.750	294.6238	81.95	.	.	.Q	.	.V	.
21.833	295.1794	80.68	.	.	.Q	.	.V	.
21.917	295.7266	79.46	.	.	.Q	.	.V	.
22.000	296.2657	78.27	.	.	.Q	.	.V	.
22.083	296.7969	77.13	.	.	.Q	.	.V	.
22.167	297.3211	76.12	.	.	.Q	.	.V	.
22.250	297.8387	75.15	.	.	.Q	.	.V	.
22.333	298.3498	74.21	.	.	.Q	.	.V	.
22.417	298.8547	73.30	.	.	.Q	.	.V	.
22.500	299.3535	72.42	.	.	.Q	.	.V	.
22.583	299.8463	71.57	.	.	.Q	.	.V	.
22.667	300.3335	70.74	.	.	.Q	.	.V	.
22.750	300.8152	69.94	.	.	.Q	.	.V	.
22.833	301.2914	69.15	.	.	.Q	.	.V	.
22.917	301.7625	68.39	.	.	.Q	.	.V	.
23.000	302.2284	67.65	.	.	.Q	.	.V	.
23.083	302.6894	66.93	.	.	.Q	.	.V	.
23.167	303.1458	66.27	.	.	.Q	.	.V	.
23.250	303.5978	65.63	.	.	.Q	.	.V	.

23.333	304.0455	65.00	. Q	.	.	.	V .
23.417	304.4890	64.39	. Q	.	.	.	V .
23.500	304.9283	63.80	. Q	.	.	.	V .
23.583	305.3637	63.22	. Q	.	.	.	V .
23.667	305.7951	62.65	. Q	.	.	.	V .
23.750	306.2228	62.10	. Q	.	.	.	V .
23.833	306.6467	61.56	. Q	.	.	.	V .
23.917	307.0670	61.03	. Q	.	.	.	V .
24.000	307.4838	60.51	. Q	.	.	.	V .
24.083	307.8959	59.84	. Q	.	.	.	V .
24.167	308.3024	59.01	. Q	.	.	.	V .
24.250	308.7032	58.20	. Q	.	.	.	V .
24.333	309.0980	57.33	. Q	.	.	.	V .
24.417	309.4862	56.36	. Q	.	.	.	V .
24.500	309.8667	55.25	. Q	.	.	.	V .
24.583	310.2372	53.81	. Q	.	.	.	V .
24.667	310.5956	52.03	. Q	.	.	.	V .
24.750	310.9409	50.14	. Q	.	.	.	V .
24.833	311.2719	48.05	. Q	.	.	.	V .
24.917	311.5886	46.00	. Q	.	.	.	V .
25.000	311.8904	43.82	.Q	.	.	.	V .
25.083	312.1768	41.58	.Q	.	.	.	V .
25.167	312.4481	39.39	.Q	.	.	.	V .
25.250	312.7015	36.80	.Q	.	.	.	V .
25.333	312.9385	34.41	.Q	.	.	.	V .
25.417	313.1558	31.55	.Q	.	.	.	V .
25.500	313.3521	28.50	.Q	.	.	.	V .
25.583	313.5302	25.86	.Q	.	.	.	V .
25.667	313.6923	23.54	.Q	.	.	.	V .
25.750	313.8348	20.69	Q	.	.	.	V .
25.833	313.9610	18.33	Q	.	.	.	V .
25.917	314.0722	16.15	Q	.	.	.	V .
26.000	314.1700	14.19	Q	.	.	.	V .
26.083	314.2563	12.53	Q	.	.	.	V .
26.167	314.3329	11.13	Q	.	.	.	V .
26.250	314.3998	9.72	Q	.	.	.	V .
26.333	314.4579	8.44	Q	.	.	.	V .
26.417	314.5085	7.35	Q	.	.	.	V .
26.500	314.5529	6.45	Q	.	.	.	V .
26.583	314.5923	5.71	Q	.	.	.	V .
26.667	314.6269	5.03	Q	.	.	.	V .
26.750	314.6570	4.38	Q	.	.	.	V .
26.833	314.6831	3.79	Q	.	.	.	V .
26.917	314.7054	3.24	Q	.	.	.	V .
27.000	314.7250	2.84	Q	.	.	.	V .
27.083	314.7419	2.45	Q	.	.	.	V .
27.167	314.7564	2.11	Q	.	.	.	V .
27.250	314.7693	1.87	Q	.	.	.	V .
27.333	314.7805	1.63	Q	.	.	.	V .
27.417	314.7900	1.38	Q	.	.	.	V .
27.500	314.7980	1.16	Q	.	.	.	V .
27.583	314.8053	1.06	Q	.	.	.	V .
27.667	314.8121	1.00	Q	.	.	.	V .
27.750	314.8186	0.93	Q	.	.	.	V .
27.833	314.8246	0.87	Q	.	.	.	V .
27.917	314.8302	0.81	Q	.	.	.	V .
28.000	314.8353	0.75	Q	.	.	.	V .
28.083	314.8401	0.69	Q	.	.	.	V .

28.167	314.8444	0.63	Q	.	.	.	V .
28.250	314.8484	0.57	Q	.	.	.	V .
28.333	314.8519	0.51	Q	.	.	.	V .
28.417	314.8550	0.45	Q	.	.	.	V .
28.500	314.8577	0.40	Q	.	.	.	V .
28.583	314.8600	0.34	Q	.	.	.	V .
28.667	314.8620	0.28	Q	.	.	.	V .
28.750	314.8635	0.22	Q	.	.	.	V .
28.833	314.8647	0.17	Q	.	.	.	V .
28.917	314.8654	0.11	Q	.	.	.	V .
29.000	314.8658	0.06	Q	.	.	.	V .
29.083	314.8658	0.00	Q	.	.	.	V .

-----  
TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
(Note: 100% of Peak Flow Rate estimate assumed to have  
an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
=====	=====
0%	1745.0
10%	655.0
20%	325.0
30%	225.0
40%	165.0
50%	125.0
60%	105.0
70%	90.0
80%	60.0
90%	25.0

-----

END OF FLOODSCx ROUTING ANALYSIS

\*\*\*\*\*

FLOOD ROUTING ANALYSIS
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)
(c) Copyright 1989-2013 Advanced Engineering Software (aes)
Ver. 20.0 Release Date: 06/01/2013 License ID 1237

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*
\* RMV PA-3 BODR 2022 - NODE 133U \*
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*
\* 5-YR EV JULY 2022 ROKAMOTO \*

FILE NAME: EV0533US.DAT
TIME/DATE OF STUDY: 11:51 07/25/2022

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 133.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<

\*\*\*\*\*

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 54417.500 ACRES
BASEFLOW = 0.000 CFS/SQUARE-MILE
\*USER ENTERED "LAG" TIME = 3.690 HOURS
VALLEY (DEVELOPED) S-GRAPH SELECTED
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.484
LOW LOSS FRACTION = 0.833
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.22
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.44
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 0.61
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 1.13
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 1.67
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 2.94

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:
5-MINUTE FACTOR = 0.328
30-MINUTE FACTOR = 0.381
1-HOUR FACTOR = 0.422
3-HOUR FACTOR = 0.771
6-HOUR FACTOR = 0.897
24-HOUR FACTOR = 0.940

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 2.258

UNIT HYDROGRAPH DETERMINATION

Table with 3 columns: INTERVAL NUMBER, "S" GRAPH MEAN VALUES, UNIT HYDROGRAPH ORDINATES (CFS). Rows 1-48.

49	56.824	10814.817
50	58.703	12364.371
51	60.915	14554.931
52	63.101	14388.459
53	64.829	11370.466
54	66.371	10148.181
55	67.880	9928.361
56	69.636	11558.326
57	71.077	9485.811
58	72.443	8990.641
59	73.904	9610.332
60	75.306	9228.987
61	76.503	7876.532
62	77.506	6603.710
63	78.510	6606.573
64	79.514	6606.573
65	80.548	6804.350
66	81.610	6987.917
67	82.603	6533.969
68	83.554	6259.371
69	84.456	5940.688
70	85.317	5661.722
71	86.136	5391.442
72	86.838	4620.167
73	87.533	4573.221
74	88.172	4206.136
75	88.706	3511.733
76	89.237	3497.523
77	89.768	3496.067
78	90.268	3289.755
79	90.744	3128.983
80	91.219	3130.388
81	91.694	3127.577
82	92.153	3019.425
83	92.584	2835.857
84	93.014	2828.727
85	93.445	2834.451
86	93.871	2805.982
87	94.204	2188.400
88	94.490	1886.789
89	94.776	1883.927
90	95.064	1889.651
91	95.350	1886.789
92	95.637	1886.739
93	95.921	1866.855
94	96.130	1380.221
95	96.307	1163.967
96	96.484	1163.916
97	96.662	1169.640
98	96.839	1163.967
99	97.016	1163.916
100	97.193	1166.778
101	97.370	1166.778
102	97.547	1163.967
103	97.724	1166.778
104	97.902	1166.778
105	98.018	768.363
106	98.061	281.728

107	98.104	278.916
108	98.146	278.866
109	98.189	281.778
110	98.230	273.192
111	98.273	281.728
112	98.315	278.866
113	98.358	278.916
114	98.400	278.866
115	98.443	278.916
116	98.485	278.866
117	98.527	276.054
118	98.569	278.916
119	98.612	281.728
120	98.654	278.866
121	98.696	273.192
122	98.739	284.590
123	98.781	273.192
124	98.824	284.590
125	98.865	273.192
126	98.909	284.590
127	98.950	273.192
128	98.993	278.916
129	99.036	284.590
130	99.078	278.916
131	99.121	278.916
132	99.163	278.916
133	99.205	278.916
134	99.248	278.916
135	99.290	278.916
136	99.333	278.916
137	99.375	278.916
138	99.417	278.916
139	99.460	278.916
140	99.502	278.916
141	99.544	278.916
142	99.587	278.916
143	99.629	278.916
144	99.672	278.916
145	99.714	278.916
146	99.756	278.916
147	99.799	278.916
148	99.841	278.916
149	99.883	278.916
150	99.926	278.916
151	99.968	278.916
152	100.000	208.974

-----  
TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 10347.0488  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 2188.2869  
-----

2 4 - 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 FIVE-MINUTE UNIT INTERVALS(CFS)

(Note: Time indicated is at END of Each Unit Intervals)

TIME(HRS)	VOLUME(AF)	Q(CFS)	0.	650.0	1300.0	1950.0	2600.0
0.083	0.0041	0.60	Q	.	.	.	.
0.167	0.0165	1.80	Q	.	.	.	.
0.250	0.0372	3.00	Q	.	.	.	.
0.333	0.0662	4.21	Q	.	.	.	.
0.417	0.1036	5.42	Q	.	.	.	.
0.500	0.1493	6.64	Q	.	.	.	.
0.583	0.2034	7.86	Q	.	.	.	.
0.667	0.2660	9.10	Q	.	.	.	.
0.750	0.3402	10.77	Q	.	.	.	.
0.833	0.4272	12.63	Q	.	.	.	.
0.917	0.5270	14.49	Q	.	.	.	.
1.000	0.6397	16.36	Q	.	.	.	.
1.083	0.7654	18.25	Q	.	.	.	.
1.167	0.9109	21.12	Q	.	.	.	.
1.250	1.0799	24.54	Q	.	.	.	.
1.333	1.2731	28.05	Q	.	.	.	.
1.417	1.4959	32.36	Q	.	.	.	.
1.500	1.7502	36.92	Q	.	.	.	.
1.583	2.0417	42.33	Q	.	.	.	.
1.667	2.3722	47.98	Q	.	.	.	.
1.750	2.7399	53.40	Q	.	.	.	.
1.833	3.1449	58.80	Q	.	.	.	.
1.917	3.5873	64.24	Q	.	.	.	.
2.000	4.0798	71.51	VQ	.	.	.	.
2.083	4.6223	78.78	VQ	.	.	.	.
2.167	5.2051	84.61	VQ	.	.	.	.
2.250	5.8281	90.47	VQ	.	.	.	.
2.333	6.4937	96.64	VQ	.	.	.	.
2.417	7.2094	103.92	VQ	.	.	.	.
2.500	7.9826	112.26	VQ	.	.	.	.
2.583	8.8044	119.33	VQ	.	.	.	.
2.667	9.6700	125.69	VQ	.	.	.	.
2.750	10.5798	132.09	V Q	.	.	.	.
2.833	11.5438	139.97	V Q	.	.	.	.
2.917	12.5636	148.08	V Q	.	.	.	.
3.000	13.6405	156.36	V Q	.	.	.	.
3.083	14.7871	166.49	V Q	.	.	.	.
3.167	15.9908	174.77	V Q	.	.	.	.
3.250	17.2377	181.05	V Q	.	.	.	.
3.333	18.5527	190.93	V Q	.	.	.	.
3.417	19.9394	201.36	V Q	.	.	.	.
3.500	21.3964	211.55	V Q	.	.	.	.
3.583	22.9224	221.57	V Q	.	.	.	.
3.667	24.5261	232.87	V Q	.	.	.	.
3.750	26.2121	244.80	V Q	.	.	.	.
3.833	27.9574	253.41	V Q	.	.	.	.
3.917	29.7606	261.83	V Q	.	.	.	.

4.000	31.6189	269.83	V Q	.	.	.	.
4.083	33.5358	278.33	V Q	.	.	.	.
4.167	35.5189	287.96	V Q	.	.	.	.
4.250	37.5793	299.16	V Q	.	.	.	.
4.333	39.7162	310.29	V Q	.	.	.	.
4.417	41.9154	319.32	V Q	.	.	.	.
4.500	44.1712	327.53	V Q	.	.	.	.
4.583	46.4825	335.61	V Q	.	.	.	.
4.667	48.8577	344.88	V Q	.	.	.	.
4.750	51.2868	352.71	V Q	.	.	.	.
4.833	53.7677	360.22	V Q	.	.	.	.
4.917	56.3036	368.21	.V Q	.	.	.	.
5.000	58.8927	375.95	.V Q	.	.	.	.
5.083	61.5289	382.77	.V Q	.	.	.	.
5.167	64.2060	388.72	.V Q	.	.	.	.
5.250	66.9243	394.70	.V Q	.	.	.	.
5.333	69.6840	400.70	.V Q	.	.	.	.
5.417	72.4862	406.87	.V Q	.	.	.	.
5.500	75.3319	413.20	.V Q	.	.	.	.
5.583	78.2192	419.23	.V Q	.	.	.	.
5.667	81.1469	425.10	.V Q	.	.	.	.
5.750	84.1137	430.77	.V Q	.	.	.	.
5.833	87.1183	436.28	.V Q	.	.	.	.
5.917	90.1597	441.61	.V Q	.	.	.	.
6.000	93.2343	446.43	.V Q	.	.	.	.
6.083	96.3421	451.24	.V Q	.	.	.	.
6.167	99.4813	455.82	.V Q	.	.	.	.
6.250	102.6489	459.93	.V Q	.	.	.	.
6.333	105.8449	464.06	.V Q	.	.	.	.
6.417	109.0694	468.21	.V Q	.	.	.	.
6.500	112.3217	472.24	. V Q	.	.	.	.
6.583	115.6012	476.17	. V Q	.	.	.	.
6.667	118.9079	480.14	. V Q	.	.	.	.
6.750	122.2421	484.13	. V Q	.	.	.	.
6.833	125.6034	488.06	. V Q	.	.	.	.
6.917	128.9911	491.89	. V Q	.	.	.	.
7.000	132.4054	495.75	. V Q	.	.	.	.
7.083	135.8463	499.63	. V Q	.	.	.	.
7.167	139.3141	503.52	. V Q	.	.	.	.
7.250	142.8058	507.00	. V Q	.	.	.	.
7.333	146.3202	510.29	. V Q	.	.	.	.
7.417	149.8574	513.60	. V Q	.	.	.	.
7.500	153.4177	516.95	. V Q	.	.	.	.
7.583	157.0011	520.32	. V Q	.	.	.	.
7.667	160.6080	523.72	. V Q	.	.	.	.
7.750	164.2384	527.13	. V Q	.	.	.	.
7.833	167.8900	530.22	. V Q	.	.	.	.
7.917	171.5622	533.19	. V Q	.	.	.	.
8.000	175.2549	536.19	. V Q	.	.	.	.
8.083	178.9685	539.22	. V Q	.	.	.	.
8.167	182.7032	542.27	. V Q	.	.	.	.
8.250	186.4590	545.35	. V Q	.	.	.	.
8.333	190.2364	548.47	. V Q	.	.	.	.
8.417	194.0353	551.61	. V Q	.	.	.	.
8.500	197.8561	554.78	. V Q	.	.	.	.
8.583	201.6990	557.98	. V Q	.	.	.	.
8.667	205.5641	561.22	. V Q	.	.	.	.
8.750	209.4498	564.21	. V Q	.	.	.	.

8.833	213.3540	566.89	.	V	Q	.	.	.	.
8.917	217.2768	569.59	.	V	Q	.	.	.	.
9.000	221.2185	572.33	.	V	Q	.	.	.	.
9.083	225.1792	575.10	.	V	Q	.	.	.	.
9.167	229.1593	577.91	.	V	Q	.	.	.	.
9.250	233.1590	580.75	.	V	Q	.	.	.	.
9.333	237.1784	583.63	.	V	Q	.	.	.	.
9.417	241.2179	586.54	.	V	Q	.	.	.	.
9.500	245.2778	589.49	.	V	Q	.	.	.	.
9.583	249.3582	592.48	.	V	Q	.	.	.	.
9.667	253.4595	595.50	.	V	Q	.	.	.	.
9.750	257.5818	598.57	.	V	Q	.	.	.	.
9.833	261.7256	601.68	.	V	Q	.	.	.	.
9.917	265.8911	604.82	.	V	Q	.	.	.	.
10.000	270.0785	608.02	.	V	Q	.	.	.	.
10.083	274.2882	611.25	.	V	Q	.	.	.	.
10.167	278.5205	614.53	.	V	Q	.	.	.	.
10.250	282.7756	617.85	.	V	Q	.	.	.	.
10.333	287.0541	621.23	.	V	Q	.	.	.	.
10.417	291.3560	624.64	.	V	Q	.	.	.	.
10.500	295.6819	628.12	.	V	Q	.	.	.	.
10.583	300.0320	631.63	.	V	Q	.	.	.	.
10.667	304.4067	635.21	.	V	Q	.	.	.	.
10.750	308.8064	638.84	.	V	Q	.	.	.	.
10.833	313.2314	642.52	.	V	Q	.	.	.	.
10.917	317.6822	646.25	.	V	Q	.	.	.	.
11.000	322.1591	650.05	.	V	Q	.	.	.	.
11.083	326.6626	653.90	.	V	Q	.	.	.	.
11.167	331.1930	657.82	.	V	Q	.	.	.	.
11.250	335.7508	661.79	.	V	Q	.	.	.	.
11.333	340.3365	665.84	.	V	Q	.	.	.	.
11.417	344.9504	669.94	.	V	Q	.	.	.	.
11.500	349.5931	674.12	.	V	Q	.	.	.	.
11.583	354.2650	678.36	.	V	Q	.	.	.	.
11.667	358.9667	682.69	.	V	Q	.	.	.	.
11.750	363.6986	687.08	.	V	Q	.	.	.	.
11.833	368.4614	691.55	.	V	Q	.	.	.	.
11.917	373.2555	696.10	.	V	Q	.	.	.	.
12.000	378.0815	700.74	.	V	Q	.	.	.	.
12.083	382.9470	706.47	.	V	Q	.	.	.	.
12.167	387.8596	713.32	.	V	Q	.	.	.	.
12.250	392.8199	720.24	.	V	.Q	.	.	.	.
12.333	397.8285	727.25	.	V	.Q	.	.	.	.
12.417	402.8859	734.34	.	V	.Q	.	.	.	.
12.500	407.9928	741.52	.	V	.Q	.	.	.	.
12.583	413.1498	748.79	.	V	.Q	.	.	.	.
12.667	418.3574	756.14	.	V	.Q	.	.	.	.
12.750	423.6203	764.17	.	V	.Q	.	.	.	.
12.833	428.9413	772.61	.	V	.Q	.	.	.	.
12.917	434.3210	781.13	.	V	.Q	.	.	.	.
13.000	439.7602	789.77	.	V	.Q	.	.	.	.
13.083	445.2598	798.54	.	V	.Q	.	.	.	.
13.167	450.8319	809.08	.	V	.Q	.	.	.	.
13.250	456.4838	820.64	.	V	.Q	.	.	.	.
13.333	462.2169	832.46	.	V	.Q	.	.	.	.
13.417	468.0414	845.71	.	V	.Q	.	.	.	.
13.500	473.9608	859.49	.	V	.Q	.	.	.	.
13.583	479.9855	874.79	.	V	.Q	.	.	.	.

13.667	486.1191	890.60	.	V	.Q	.	.	.	.
13.750	492.3593	906.07	.	V	.Q	.	.	.	.
13.833	498.7066	921.63	.	V	.Q	.	.	.	.
13.917	505.1620	937.32	.	V	.Q	.	.	.	.
14.000	511.7477	956.24	.	V	.Q	.	.	.	.
14.083	518.4719	976.34	.	V	.Q	.	.	.	.
14.167	525.3257	995.17	.	V	.Q	.	.	.	.
14.250	532.3094	1014.04	.	V	.Q	.	.	.	.
14.333	539.4271	1033.49	.	V	.Q	.	.	.	.
14.417	546.6918	1054.84	.	V	.Q	.	.	.	.
14.500	554.1161	1078.01	.	V	.Q	.	.	.	.
14.583	561.6851	1099.01	.	V	.Q	.	.	.	.
14.667	569.3907	1118.87	.	V	.Q	.	.	.	.
14.750	577.2393	1139.61	.	V	.Q	.	.	.	.
14.833	585.2504	1163.21	.	V	.Q	.	.	.	.
14.917	593.4265	1187.16	.	V	.Q	.	.	.	.
15.000	601.7693	1211.39	.	V	.Q	.	.	.	.
15.083	610.3007	1238.76	.	.V	.Q	.	.	.	.
15.167	619.0110	1264.73	.	.V	.Q	.	.	.	.
15.250	627.8828	1288.18	.	.V	.Q	.	.	.	.
15.333	636.9586	1317.81	.	.V	.Q	.	.	.	.
15.417	646.2433	1348.15	.	.V	.Q	.	.	.	.
15.500	655.7267	1376.98	.	.V	.Q	.	.	.	.
15.583	665.4173	1407.08	.	.V	.Q	.	.	.	.
15.667	675.3336	1439.85	.	.V	.Q	.	.	.	.
15.750	685.4761	1472.70	.	.V	.Q	.	.	.	.
15.833	695.8032	1499.49	.	.V	.Q	.	.	.	.
15.917	706.3178	1526.72	.	.V	.Q	.	.	.	.
16.000	717.0486	1558.11	.	.V	.Q	.	.	.	.
16.083	728.1669	1614.38	.	.V	.Q	.	.	.	.
16.167	739.6520	1667.64	.	.V	.Q	.	.	.	.
16.250	751.3420	1697.39	.	.V	.Q	.	.	.	.
16.333	763.2359	1726.99	.	.V	.Q	.	.	.	.
16.417	775.3257	1755.43	.	.V	.Q	.	.	.	.
16.500	787.6063	1783.15	.	.V	.Q	.	.	.	.
16.583	800.0541	1807.41	.	.V	.Q	.	.	.	.
16.667	812.6853	1834.06	.	.V	.Q	.	.	.	.
16.750	825.5885	1873.54	.	.V	.Q	.	.	.	.
16.833	838.6922	1902.66	.	.V	.Q	.	.	.	.
16.917	851.9388	1923.41	.	.V	.Q	.	.	.	.
17.000	865.3330	1944.83	.	.V	.Q	.	.	.	.
17.083	878.9092	1971.26	.	.V	.Q	.	.	.	.
17.167	892.9027	2031.86	.	.V	.Q	.	.	.	.
17.250	907.1539	2069.27	.	.V	.Q	.	.	.	.
17.333	921.5488	2090.15	.	.V	.Q	.	.	.	.
17.417	936.3004	2141.92	.	.V	.Q	.	.	.	.
17.500	951.2919	2176.77	.	.V	.Q	.	.	.	.
17.583	966.6846	2235.03	.	.V	.Q	.	.	.	.
17.667	982.2871	2265.48	.	.V	.Q	.	.	.	.
17.750	997.9515	2274.48	.	.V	.Q	.	.	.	.
17.833	1013.7053	2287.44	.	.V	.Q	.	.	.	.
17.917	1029.6077	2309.03	.	.V	.Q	.	.	.	.
18.000	1046.1594	2403.31	.	.V	.Q	.	.	.	.
18.083	1062.7844	2413.96	.	.V	.Q	.	.	.	.
18.167	1079.0411	2360.48	.	.V	.Q	.	.	.	.
18.250	1095.3810	2372.54	.	.V	.Q	.	.	.	.
18.333	1111.9349	2403.63	.	.V	.Q	.	.	.	.
18.417	1128.8551	2456.81	.	.V	.Q	.	.	.	.



18.500	1146.0737	2500.14	.	.	V	.	Q	.
18.583	1162.9308	2447.65	.	.	.V	.	Q	.
18.667	1179.5663	2415.47	.	.	.V	.	Q	.
18.750	1196.1923	2414.09	.	.	.V	.	Q	.
18.833	1213.2512	2476.96	.	.	.V	.	Q	.
18.917	1230.3833	2487.57	.	.	.V	.	Q	.
19.000	1247.4911	2484.06	.	.	.V	.	Q	.
19.083	1264.9819	2539.67	.	.	.V	.	Q.	.
19.167	1281.8676	2451.79	.	.	.V	.	Q	.
19.250	1298.1781	2368.28	.	.	.V	.	Q	.
19.333	1315.5154	2517.38	.	.	.V	.	Q	.
19.417	1332.9531	2531.96	.	.	.V	.	Q	.
19.500	1350.2307	2508.71	.	.	.V	.	Q	.
19.583	1367.3088	2479.75	.	.	.V	.	Q	.
19.667	1384.6393	2516.38	.	.	.V	.	Q	.
19.750	1402.0284	2524.90	.	.	.V	.	Q	.
19.833	1418.3293	2366.89	.	.	.V	.	Q	.
19.917	1434.4573	2341.77	.	.	.V	.	Q	.
20.000	1450.3400	2306.17	.	.	.V	.	Q	.
20.083	1466.3035	2317.90	.	.	.V	.	Q	.
20.167	1482.5210	2354.79	.	.	.V	.	Q	.
20.250	1499.0853	2405.13	.	.	.V	.	Q	.
20.333	1515.4081	2370.07	.	.	.V	.	Q	.
20.417	1530.9180	2252.03	.	.	.V	.	Q	.
20.500	1546.0261	2193.70	.	.	.V	.	Q	.
20.583	1560.9807	2171.40	.	.	.V	.	Q	.
20.667	1576.1300	2199.68	.	.	.V	.	Q	.
20.750	1590.6763	2112.12	.	.	.V	.	Q	.
20.833	1604.9628	2074.41	.	.	.V	.	Q	.
20.917	1619.2007	2067.34	.	.	.V	.	Q	.
21.000	1633.1943	2031.88	.	.	.V	.	Q	.
21.083	1646.6991	1960.88	.	.	.Q	.		.
21.167	1659.7483	1894.74	.	.	.QV	.		.
21.250	1672.6200	1868.96	.	.	.Q	.	V	.
21.333	1685.2783	1837.99	.	.	.Q	.	V	.
21.417	1697.7679	1813.49	.	.	.Q	.	V	.
21.500	1710.0796	1787.65	.	.	.Q	.	V	.
21.583	1722.0901	1743.93	.	.	.Q	.	V	.
21.667	1733.8049	1700.99	.	.	.Q	.	V	.
21.750	1745.2229	1657.89	.	.	.Q	.	V	.
21.833	1756.3931	1621.90	.	.	.Q	.	V	.
21.917	1767.3077	1584.81	.	.	.Q	.	V	.
22.000	1777.8721	1533.95	.	.	.Q	.	V	.
22.083	1788.2349	1504.68	.	.	.Q	.	V	.
22.167	1798.3260	1465.25	.	.	.Q	.	V	.
22.250	1808.0684	1414.59	.	.	.Q	.	V	.
22.333	1817.5969	1383.54	.	.	.Q	.	V	.
22.417	1826.9348	1355.86	.	.	.Q	.	V	.
22.500	1836.0468	1323.05	.	.	.Q	.	V	.
22.583	1844.9497	1292.71	.	.	.Q	.	V	.
22.667	1853.6683	1265.95	.	.	.Q	.	V	.
22.750	1862.2153	1241.02	.	.	.Q	.	V	.
22.833	1870.5676	1212.75	.	.	.Q	.	V	.
22.917	1878.7086	1182.07	.	.	.Q	.	V	.
23.000	1886.6857	1158.28	.	.	.Q	.	V	.
23.083	1894.5098	1136.06	.	.	.Q	.	V	.
23.167	1902.1869	1114.73	.	.	.Q	.	V	.
23.250	1909.6057	1077.22	.	.	.Q	.	V	.

23.333	1916.8368	1049.96	.	.	.Q	.	.	V	.
23.417	1923.9424	1031.73	.	.	.Q	.	.	V	.
23.500	1930.9282	1014.35	.	.	.Q	.	.	V	.
23.583	1937.7925	996.69	.	.	.Q	.	.	V	.
23.667	1944.5317	978.55	.	.	.Q	.	.	V	.
23.750	1951.1400	959.51	.	.	.Q	.	.	V	.
23.833	1957.5271	927.41	.	.	.Q	.	.	V	.
23.917	1963.7573	904.62	.	.	.Q	.	.	V	.
24.000	1969.8838	889.56	.	.	.Q	.	.	V	.
24.083	1975.9106	875.10	.	.	.Q	.	.	V	.
24.167	1981.8365	860.44	.	.	.Q	.	.	V	.
24.250	1987.6711	847.19	.	.	.Q	.	.	V	.
24.333	1993.4177	834.40	.	.	.Q	.	.	V	.
24.417	1999.0770	821.73	.	.	.Q	.	.	V	.
24.500	2004.6519	809.46	.	.	.Q	.	.	V	.
24.583	2010.1416	797.12	.	.	.Q	.	.	V	.
24.667	2015.5396	783.79	.	.	.Q	.	.	V	.
24.750	2020.7590	757.86	.	.	.Q	.	.	V	.
24.833	2025.7920	730.78	.	.	.Q	.	.	V	.
24.917	2030.7451	719.19	.	.	.Q	.	.	V	.
25.000	2035.6213	708.03	.	.	.Q	.	.	V	.
25.083	2040.4192	696.64	.	.	.Q	.	.	V	.
25.167	2045.1252	683.31	.	.	.Q	.	.	V	.
25.250	2049.7446	670.74	.	.	.Q	.	.	V	.
25.333	2054.2776	658.19	.	.	.Q	.	.	V	.
25.417	2058.7200	645.04	.	.	.Q	.	.	V	.
25.500	2063.0703	631.68	.	.	.Q	.	.	V	.
25.583	2067.3237	617.61	.	.	.Q	.	.	V	.
25.667	2071.4792	603.37	.	.	.Q	.	.	V	.
25.750	2075.5425	589.97	.	.	.Q	.	.	V	.
25.833	2079.5239	578.09	.	.	.Q	.	.	V	.
25.917	2083.4265	566.64	.	.	.Q	.	.	V	.
26.000	2087.2375	553.35	.	.	.Q	.	.	V	.
26.083	2090.9575	540.14	.	.	.Q	.	.	V	.
26.167	2094.6011	529.06	.	.	.Q	.	.	V	.
26.250	2098.1648	517.45	.	.	.Q	.	.	V	.
26.333	2101.6519	506.32	.	.	.Q	.	.	V	.
26.417	2105.0510	493.55	.	.	.Q	.	.	V	.
26.500	2108.3606	480.57	.	.	.Q	.	.	V	.
26.583	2111.5859	468.31	.	.	.Q	.	.	V	.
26.667	2114.7356	457.34	.	.	.Q	.	.	V	.
26.750	2117.8115	446.63	.	.	.Q	.	.	V	.
26.833	2120.8064	434.85	.	.	.Q	.	.	V	.
26.917	2123.7207	423.15	.	.	.Q	.	.	V	.
27.000	2126.5542	411.43	.	.	.Q	.	.	V	.
27.083	2129.2954	398.03	.	.	.Q	.	.	V	.
27.167	2131.9583	386.63	.	.	.Q	.	.	V	.
27.250	2134.5571	377.37	.	.	.Q	.	.	V	.
27.333	2137.0684	364.63	.	.	.Q	.	.	V	.
27.417	2139.4893	351.51	.	.	.Q	.	.	V	.
27.500	2141.8223	338.75	.	.	.Q	.	.	V	.
27.583	2144.0698	326.33	.	.	.Q	.	.	V	.
27.667	2146.2239	312.77	.	.	.Q	.	.	V	.
27.750	2148.2812	298.73	.	.	.Q	.	.	V	.
27.833	2150.2659	288.16	.	.	.Q	.	.	V	.
27.917	2152.1799	277.91	.	.	.Q	.	.	V	.
28.000	2154.0278	268.32	.	.	.Q	.	.	V	.
28.083	2155.8096	258.71	.	.	.Q	.	.	V	.

28.167	2157.5178	248.04	. Q	.	.	.	V.
28.250	2159.1423	235.87	. Q	.	.	.	V.
28.333	2160.6843	223.89	. Q	.	.	.	V.
28.417	2162.1597	214.20	. Q	.	.	.	V.
28.500	2163.5737	205.31	. Q	.	.	.	V.
28.583	2164.9263	196.37	. Q	.	.	.	V.
28.667	2166.1941	184.08	. Q	.	.	.	V.
28.750	2167.3608	169.43	. Q	.	.	.	V.
28.833	2168.4736	161.58	. Q	.	.	.	V.
28.917	2169.5300	153.39	. Q	.	.	.	V.
29.000	2170.5320	145.50	. Q	.	.	.	V.
29.083	2171.4844	138.27	. Q	.	.	.	V.
29.167	2172.3933	131.96	. Q	.	.	.	V.
29.250	2173.2588	125.67	.Q	.	.	.	V.
29.333	2174.0811	119.39	.Q	.	.	.	V.
29.417	2174.8594	113.00	.Q	.	.	.	V.
29.500	2175.5928	106.50	.Q	.	.	.	V.
29.583	2176.2839	100.35	.Q	.	.	.	V.
29.667	2176.9348	94.51	.Q	.	.	.	V.
29.750	2177.5491	89.19	.Q	.	.	.	V.
29.833	2178.1284	84.12	.Q	.	.	.	V.
29.917	2178.6746	79.28	.Q	.	.	.	V.
30.000	2179.1914	75.03	.Q	.	.	.	V.
30.083	2179.6794	70.85	.Q	.	.	.	V.
30.167	2180.1406	66.95	.Q	.	.	.	V.
30.250	2180.5786	63.58	Q	.	.	.	V.
30.333	2180.9937	60.25	Q	.	.	.	V.
30.417	2181.3857	56.94	Q	.	.	.	V.
30.500	2181.7563	53.81	Q	.	.	.	V.
30.583	2182.1062	50.81	Q	.	.	.	V.
30.667	2182.4363	47.92	Q	.	.	.	V.
30.750	2182.7483	45.30	Q	.	.	.	V.
30.833	2183.0430	42.79	Q	.	.	.	V.
30.917	2183.3213	40.43	Q	.	.	.	V.
31.000	2183.5837	38.09	Q	.	.	.	V.
31.083	2183.8301	35.77	Q	.	.	.	V.
31.167	2184.0608	33.49	Q	.	.	.	V.
31.250	2184.2788	31.67	Q	.	.	.	V.
31.333	2184.4858	30.08	Q	.	.	.	V.
31.417	2184.6821	28.50	Q	.	.	.	V.
31.500	2184.8677	26.93	Q	.	.	.	V.
31.583	2185.0425	25.38	Q	.	.	.	V.
31.667	2185.2065	23.84	Q	.	.	.	V.
31.750	2185.3604	22.32	Q	.	.	.	V.
31.833	2185.5061	21.17	Q	.	.	.	V.
31.917	2185.6450	20.17	Q	.	.	.	V.
32.000	2185.7771	19.19	Q	.	.	.	V.
32.083	2185.9026	18.21	Q	.	.	.	V.
32.167	2186.0212	17.24	Q	.	.	.	V.
32.250	2186.1333	16.28	Q	.	.	.	V.
32.333	2186.2388	15.33	Q	.	.	.	V.
32.417	2186.3379	14.38	Q	.	.	.	V.
32.500	2186.4304	13.44	Q	.	.	.	V.
32.583	2186.5166	12.51	Q	.	.	.	V.
32.667	2186.5964	11.59	Q	.	.	.	V.
32.750	2186.6719	10.95	Q	.	.	.	V.
32.833	2186.7454	10.67	Q	.	.	.	V.
32.917	2186.8169	10.39	Q	.	.	.	V.

33.000	2186.8865	10.11	Q	.	.	.	V.
33.083	2186.9541	9.83	Q	.	.	.	V.
33.167	2187.0200	9.56	Q	.	.	.	V.
33.250	2187.0840	9.29	Q	.	.	.	V.
33.333	2187.1460	9.02	Q	.	.	.	V.
33.417	2187.2063	8.75	Q	.	.	.	V.
33.500	2187.2649	8.49	Q	.	.	.	V.
33.583	2187.3215	8.23	Q	.	.	.	V.
33.667	2187.3765	7.97	Q	.	.	.	V.
33.750	2187.4297	7.72	Q	.	.	.	V.
33.833	2187.4812	7.47	Q	.	.	.	V.
33.917	2187.5310	7.22	Q	.	.	.	V.
34.000	2187.5791	6.97	Q	.	.	.	V.
34.083	2187.6255	6.73	Q	.	.	.	V.
34.167	2187.6702	6.48	Q	.	.	.	V.
34.250	2187.7131	6.24	Q	.	.	.	V.
34.333	2187.7544	6.00	Q	.	.	.	V.
34.417	2187.7942	5.76	Q	.	.	.	V.
34.500	2187.8323	5.52	Q	.	.	.	V.
34.583	2187.8687	5.29	Q	.	.	.	V.
34.667	2187.9036	5.06	Q	.	.	.	V.
34.750	2187.9368	4.83	Q	.	.	.	V.
34.833	2187.9685	4.60	Q	.	.	.	V.
34.917	2187.9985	4.37	Q	.	.	.	V.
35.000	2188.0271	4.15	Q	.	.	.	V.
35.083	2188.0542	3.92	Q	.	.	.	V.
35.167	2188.0796	3.70	Q	.	.	.	V.
35.250	2188.1035	3.48	Q	.	.	.	V.
35.333	2188.1260	3.26	Q	.	.	.	V.
35.417	2188.1470	3.04	Q	.	.	.	V.
35.500	2188.1665	2.83	Q	.	.	.	V.
35.583	2188.1846	2.61	Q	.	.	.	V.
35.667	2188.2012	2.40	Q	.	.	.	V.
35.750	2188.2163	2.19	Q	.	.	.	V.
35.833	2188.2300	1.98	Q	.	.	.	V.
35.917	2188.2422	1.77	Q	.	.	.	V.
36.000	2188.2529	1.56	Q	.	.	.	V.

-----

TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:

(Note: 100% of Peak Flow Rate estimate assumed to have an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
0%	2165.0
10%	1455.0
20%	1140.0
30%	720.0
40%	550.0
50%	445.0
60%	370.0
70%	305.0
80%	235.0
90%	155.0

=====

END OF FLOODSCx ROUTING ANALYSIS



\*\*\*\*\*

FLOOD ROUTING ANALYSIS
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)
(c) Copyright 1989-2013 Advanced Engineering Software (aes)
Ver. 20.0 Release Date: 06/01/2013 License ID 1237

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*
\* RMV PA-3 ROMP AMENDMENT 2022 - NODE 134C \*
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*
\* 5-YR EV OCT 2022 ROKAMOTO \*

FILE NAME: EV0534CS.DAT
TIME/DATE OF STUDY: 11:36 10/25/2022

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 134.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<

\*\*\*\*\*

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 66607.102 ACRES
BASEFLOW = 0.000 CFS/SQUARE-MILE
\*USER ENTERED "LAG" TIME = 3.827 HOURS
VALLEY (DEVELOPED) S-GRAPH SELECTED
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.473
LOW LOSS FRACTION = 0.825
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.22
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.44
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 0.60
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 1.09
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 1.60
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 2.79

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:
5-MINUTE FACTOR = 0.293
30-MINUTE FACTOR = 0.352
1-HOUR FACTOR = 0.397
3-HOUR FACTOR = 0.740
6-HOUR FACTOR = 0.887
24-HOUR FACTOR = 0.933

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 2.178

UNIT HYDROGRAPH DETERMINATION

Table with 3 columns: INTERVAL NUMBER, "S" GRAPH MEAN VALUES, UNIT HYDROGRAPH ORDINATES (CFS). Rows 1-48.

49	54.060	12595.373
50	55.529	11836.256
51	57.172	13232.990
52	59.015	14848.757
53	61.211	17687.334
54	63.262	16520.480
55	64.906	13244.759
56	66.391	11964.947
57	67.841	11682.307
58	69.539	13671.916
59	70.953	11393.273
60	72.257	10499.136
61	73.664	11340.912
62	75.026	10965.164
63	76.254	9898.577
64	77.232	7871.847
65	78.200	7796.009
66	79.167	7796.009
67	80.147	7889.977
68	81.168	8224.119
69	82.167	8048.905
70	83.089	7427.513
71	83.995	7295.626
72	84.835	6768.263
73	85.664	6674.295
74	86.399	5924.704
75	87.069	5395.436
76	87.738	5389.966
77	88.313	4629.620
78	88.825	4127.393
79	89.337	4127.393
80	89.848	4116.577
81	90.324	3829.388
82	90.782	3692.093
83	91.241	3693.875
84	91.699	3692.093
85	92.142	3567.458
86	92.557	3347.073
87	92.972	3338.039
88	93.387	3345.291
89	93.802	3338.039
90	94.144	2760.035
91	94.420	2225.359
92	94.697	2228.985
93	94.974	2228.985
94	95.250	2225.359
95	95.526	2225.421
96	95.804	2232.550
97	96.047	1958.021
98	96.220	1394.522
99	96.391	1376.392
100	96.561	1376.392
101	96.732	1376.392
102	96.903	1372.827
103	97.074	1380.018
104	97.245	1372.766
105	97.415	1376.392
106	97.586	1376.453

107	97.757	1376.392
108	97.928	1372.766
109	98.024	773.130
110	98.064	328.734
111	98.105	325.108
112	98.146	335.986
113	98.187	325.169
114	98.227	325.108
115	98.268	332.360
116	98.309	328.734
117	98.350	328.795
118	98.391	328.734
119	98.433	335.986
120	98.473	325.108
121	98.514	332.360
122	98.555	325.108
123	98.596	332.360
124	98.637	332.360
125	98.676	317.917
126	98.719	339.612
127	98.759	325.108
128	98.800	332.360
129	98.840	317.917
130	98.882	339.612
131	98.922	325.108
132	98.964	332.360
133	99.004	325.169
134	99.044	325.169
135	99.085	325.169
136	99.125	325.169
137	99.165	325.169
138	99.206	325.169
139	99.246	325.169
140	99.286	325.169
141	99.327	325.169
142	99.367	325.169
143	99.408	325.169
144	99.448	325.169
145	99.488	325.169
146	99.529	325.169
147	99.569	325.169
148	99.609	325.169
149	99.650	325.169
150	99.690	325.169
151	99.730	325.169
152	99.771	325.169
153	99.811	325.169
154	99.852	325.169
155	99.892	325.169
156	99.932	325.169
157	99.973	325.169
158	100.000	219.893

-----  
TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 11856.2432  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 2601.9109  
-----

=====

2 4 - 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 FIVE-MINUTE UNIT INTERVALS (CFS)  
(Note: Time indicated is at END of Each Unit Intervals)

TIME (HRS)	VOLUME (AF)	Q (CFS)	0.	750.0	1500.0	2250.0	3000.0
0.083	0.0048	0.70	Q	.	.	.	.
0.167	0.0192	2.09	Q	.	.	.	.
0.250	0.0432	3.49	Q	.	.	.	.
0.333	0.0769	4.89	Q	.	.	.	.
0.417	0.1203	6.30	Q	.	.	.	.
0.500	0.1735	7.71	Q	.	.	.	.
0.583	0.2363	9.13	Q	.	.	.	.
0.667	0.3090	10.55	Q	.	.	.	.
0.750	0.3937	12.31	Q	.	.	.	.
0.833	0.4934	14.47	Q	.	.	.	.
0.917	0.6079	16.63	Q	.	.	.	.
1.000	0.7373	18.80	Q	.	.	.	.
1.083	0.8818	20.97	Q	.	.	.	.
1.167	1.0441	23.57	Q	.	.	.	.
1.250	1.2332	27.45	Q	.	.	.	.
1.333	1.4497	31.43	Q	.	.	.	.
1.417	1.6965	35.84	Q	.	.	.	.
1.500	1.9792	41.05	Q	.	.	.	.
1.583	2.3000	46.58	Q	.	.	.	.
1.667	2.6659	53.13	Q	.	.	.	.
1.750	3.0766	59.62	Q	.	.	.	.
1.833	3.5304	65.90	Q	.	.	.	.
1.917	4.0276	72.19	Q	.	.	.	.
2.000	4.5690	78.61	VQ	.	.	.	.
2.083	5.1718	87.52	VQ	.	.	.	.
2.167	5.8304	95.64	VQ	.	.	.	.
2.250	6.5359	102.43	VQ	.	.	.	.
2.333	7.2883	109.25	VQ	.	.	.	.
2.417	8.0901	116.42	VQ	.	.	.	.
2.500	8.9500	124.86	VQ	.	.	.	.
2.583	9.8765	134.54	VQ	.	.	.	.
2.667	10.8614	143.00	VQ	.	.	.	.
2.750	11.8973	150.41	V Q	.	.	.	.
2.833	12.9844	157.85	V Q	.	.	.	.
2.917	14.1307	166.44	V Q	.	.	.	.
3.000	15.3444	176.23	V Q	.	.	.	.
3.083	16.6202	185.25	V Q	.	.	.	.
3.167	17.9768	196.97	V Q	.	.	.	.
3.250	19.4061	207.55	V Q	.	.	.	.
3.333	20.8901	215.48	V Q	.	.	.	.
3.417	22.4338	224.13	V Q	.	.	.	.
3.500	24.0691	237.46	V Q	.	.	.	.
3.583	25.7830	248.86	V Q	.	.	.	.
3.667	27.5794	260.83	V Q	.	.	.	.
3.750	29.4579	272.75	V Q	.	.	.	.
3.833	31.4338	286.91	V Q	.	.	.	.
3.917	33.4948	299.25	V Q	.	.	.	.

4.000	35.6235	309.08	V	Q	.	.	.	.
4.083	37.8192	318.83	V	Q	.	.	.	.
4.167	40.0788	328.09	V	Q	.	.	.	.
4.250	42.4090	338.34	V	Q	.	.	.	.
4.333	44.8178	349.77	V	Q	.	.	.	.
4.417	47.3192	363.20	V	Q	.	.	.	.
4.500	49.9078	375.87	V	Q	.	.	.	.
4.583	52.5682	386.30	V	Q	.	.	.	.
4.667	55.2947	395.89	V	Q	.	.	.	.
4.750	58.0861	405.31	V	Q	.	.	.	.
4.833	60.9522	416.16	V	Q	.	.	.	.
4.917	63.8824	425.46	V	Q	.	.	.	.
5.000	66.8726	434.18	.V	Q	.	.	.	.
5.083	69.9271	443.51	.V	Q	.	.	.	.
5.167	73.0443	452.63	.V	Q	.	.	.	.
5.250	76.2195	461.03	.V	Q	.	.	.	.
5.333	79.4431	468.07	.V	Q	.	.	.	.
5.417	82.7149	475.08	.V	Q	.	.	.	.
5.500	86.0354	482.12	.V	Q	.	.	.	.
5.583	89.4049	489.26	.V	Q	.	.	.	.
5.667	92.8255	496.67	.V	Q	.	.	.	.
5.750	96.2965	503.98	.V	Q	.	.	.	.
5.833	99.8151	510.91	.V	Q	.	.	.	.
5.917	103.3810	517.76	.V	Q	.	.	.	.
6.000	106.9918	524.29	.V	Q	.	.	.	.
6.083	110.6474	530.78	.V	Q	.	.	.	.
6.167	114.3442	536.79	.V	Q	.	.	.	.
6.250	118.0801	542.45	.V	Q	.	.	.	.
6.333	121.8553	548.15	.V	Q	.	.	.	.
6.417	125.6662	553.34	.V	Q	.	.	.	.
6.500	129.5107	558.22	.V	Q	.	.	.	.
6.583	133.3890	563.13	.V	Q	.	.	.	.
6.667	137.3012	568.06	.V	Q	.	.	.	.
6.750	141.2462	572.81	.V	Q	.	.	.	.
6.833	145.2236	577.51	.V	Q	.	.	.	.
6.917	149.2335	582.23	.V	Q	.	.	.	.
7.000	153.2761	586.99	.V	Q	.	.	.	.
7.083	157.3511	591.68	.V	Q	.	.	.	.
7.167	161.4576	596.27	.V	Q	.	.	.	.
7.250	165.5958	600.86	.V	Q	.	.	.	.
7.333	169.7659	605.51	.V	Q	.	.	.	.
7.417	173.9682	610.17	.V	Q	.	.	.	.
7.500	178.2000	614.47	.V	Q	.	.	.	.
7.583	182.4591	618.42	.V	Q	.	.	.	.
7.667	186.7457	622.41	.V	Q	.	.	.	.
7.750	191.0600	626.43	.V	Q	.	.	.	.
7.833	195.4022	630.49	.V	Q	.	.	.	.
7.917	199.7725	634.57	.V	Q	.	.	.	.
8.000	204.1713	638.70	.V	Q	.	.	.	.
8.083	208.5974	642.67	.V	Q	.	.	.	.
8.167	213.0484	646.28	.V	Q	.	.	.	.
8.250	217.5243	649.91	.V	Q	.	.	.	.
8.333	222.0256	653.58	.V	Q	.	.	.	.
8.417	226.5523	657.28	.V	Q	.	.	.	.
8.500	231.1048	661.02	.V	Q	.	.	.	.
8.583	235.6833	664.80	.V	Q	.	.	.	.
8.667	240.2881	668.61	.V	Q	.	.	.	.
8.750	244.9193	672.46	.V	Q	.	.	.	.

8.833	249.5774	676.35	.	V	Q.	.	.	.
8.917	254.2625	680.28	.	V	Q.	.	.	.
9.000	258.9750	684.25	.	V	Q.	.	.	.
9.083	263.7122	687.84	.	V	Q.	.	.	.
9.167	268.4723	691.17	.	V	Q.	.	.	.
9.250	273.2555	694.52	.	V	Q.	.	.	.
9.333	278.0622	697.94	.	V	Q.	.	.	.
9.417	282.8927	701.38	.	V	Q.	.	.	.
9.500	287.7472	704.88	.	V	Q.	.	.	.
9.583	292.6260	708.41	.	V	Q.	.	.	.
9.667	297.5296	712.00	.	V	Q.	.	.	.
9.750	302.4582	715.62	.	V	Q.	.	.	.
9.833	307.4121	719.31	.	V	Q.	.	.	.
9.917	312.3916	723.03	.	V	Q.	.	.	.
10.000	317.3972	726.81	.	V	Q.	.	.	.
10.083	322.4292	730.64	.	V	Q.	.	.	.
10.167	327.4879	734.52	.	V	Q.	.	.	.
10.250	332.5736	738.45	.	V	Q.	.	.	.
10.333	337.6869	742.45	.	V	Q.	.	.	.
10.417	342.8279	746.48	.	V	Q.	.	.	.
10.500	347.9973	750.60	.	V	Q	.	.	.
10.583	353.1953	754.75	.	V	Q	.	.	.
10.667	358.4225	758.98	.	V	Q	.	.	.
10.750	363.6790	763.25	.	V	Q	.	.	.
10.833	368.9657	767.62	.	V	Q	.	.	.
10.917	374.2826	772.02	.	V	Q	.	.	.
11.000	379.6306	776.52	.	V	Q	.	.	.
11.083	385.0098	781.06	.	V	Q	.	.	.
11.167	390.4209	785.69	.	V	Q	.	.	.
11.250	395.8642	790.38	.	V	Q	.	.	.
11.333	401.3405	795.16	.	V	Q	.	.	.
11.417	406.8501	800.00	.	V	Q	.	.	.
11.500	412.3937	804.93	.	V	Q	.	.	.
11.583	417.9718	809.94	.	V	Q	.	.	.
11.667	423.5850	815.04	.	V	Q	.	.	.
11.750	429.2339	820.21	.	V	Q	.	.	.
11.833	434.9191	825.50	.	V	.Q	.	.	.
11.917	440.6413	830.85	.	V	.Q	.	.	.
12.000	446.4011	836.33	.	V	.Q	.	.	.
12.083	452.2080	843.16	.	V	.Q	.	.	.
12.167	458.0716	851.39	.	V	.Q	.	.	.
12.250	463.9923	859.69	.	V	.Q	.	.	.
12.333	469.9711	868.11	.	V	.Q	.	.	.
12.417	476.0084	876.61	.	V	.Q	.	.	.
12.500	482.1050	885.23	.	V	.Q	.	.	.
12.583	488.2615	893.93	.	V	.Q	.	.	.
12.667	494.4789	902.76	.	V	.Q	.	.	.
12.750	500.7619	912.30	.	V	.Q	.	.	.
12.833	507.1165	922.69	.	V	.Q	.	.	.
12.917	513.5434	933.17	.	V	.Q	.	.	.
13.000	520.0434	943.80	.	V	.Q	.	.	.
13.083	526.6172	954.52	.	V	.Q	.	.	.
13.167	533.2706	966.07	.	V	.Q	.	.	.
13.250	540.0194	979.93	.	V	.Q	.	.	.
13.333	546.8658	994.10	.	V	.Q	.	.	.
13.417	553.8155	1009.10	.	V	.Q	.	.	.
13.500	560.8798	1025.74	.	V	.Q	.	.	.
13.583	568.0630	1043.01	.	V	.Q	.	.	.

13.667	575.3790	1062.27	.	V	.	Q	.	.	.
13.750	582.8272	1081.49	.	V	.	Q	.	.	.
13.833	590.4058	1100.42	.	V	.	Q	.	.	.
13.917	598.1155	1119.44	.	V	.	Q	.	.	.
14.000	605.9586	1138.81	.	V	.	Q	.	.	.
14.083	613.9753	1164.03	.	V	.	Q	.	.	.
14.167	622.1646	1189.08	.	V	.	Q	.	.	.
14.250	630.5092	1211.63	.	V	.	Q	.	.	.
14.333	639.0096	1234.27	.	V	.	Q	.	.	.
14.417	647.6703	1257.53	.	V	.	Q	.	.	.
14.500	656.5078	1283.19	.	V	.	Q	.	.	.
14.583	665.5372	1311.08	.	V	.	Q	.	.	.
14.667	674.7435	1336.77	.	V	.	Q	.	.	.
14.750	684.1170	1361.03	.	V	.	Q	.	.	.
14.833	693.6628	1386.05	.	V	.	Q	.	.	.
14.917	703.3950	1413.12	.	V	.	Q	.	.	.
15.000	713.3289	1442.41	.	V	.	Q	.	.	.
15.083	723.4539	1470.15	.	.V	.	Q	.	.	.
15.167	733.8091	1503.58	.	.V	.	Q	.	.	.
15.250	744.3939	1536.91	.	.V	.	Q	.	.	.
15.333	755.1749	1565.39	.	.V	.	Q	.	.	.
15.417	766.1530	1594.02	.	.V	.	Q	.	.	.
15.500	777.3855	1630.96	.	.V	.	Q	.	.	.
15.583	788.8515	1664.86	.	.V	.	Q	.	.	.
15.667	800.5707	1701.62	.	.V	.	Q	.	.	.
15.750	812.5378	1737.63	.	.V	.	Q	.	.	.
15.833	824.7759	1776.97	.	.V	.	Q	.	.	.
15.917	837.2672	1813.74	.	.V	.	Q	.	.	.
16.000	849.9925	1847.71	.	.V	.	Q	.	.	.
16.083	863.1158	1905.51	.	.V	.	Q	.	.	.
16.167	876.6016	1958.12	.	.V	.	Q	.	.	.
16.250	890.2952	1988.31	.	.V	.	Q	.	.	.
16.333	904.2072	2020.03	.	.V	.	Q	.	.	.
16.417	918.3713	2056.63	.	.V	.	Q	.	.	.
16.500	932.7940	2094.17	.	.V	.	Q	.	.	.
16.583	947.4421	2126.90	.	.V	.	Q	.	.	.
16.667	962.2959	2156.78	.	.V	.	Q	.	.	.
16.750	977.4045	2193.78	.	.V	.	Q	.	.	.
16.833	992.7778	2232.20	.	.V	.	Q	.	.	.
16.917	1008.3186	2256.52	.	.V	.	Q	.	.	.
17.000	1024.0234	2280.33	.	.V	.	Q	.	.	.
17.083	1039.9015	2305.48	.	.V	.	Q	.	.	.
17.167	1056.0779	2348.81	.	.V	.	Q	.	.	.
17.250	1072.6947	2412.77	.	.V	.	Q	.	.	.
17.333	1089.4539	2433.42	.	.V	.	Q	.	.	.
17.417	1106.3918	2459.39	.	.V	.	Q	.	.	.
17.500	1123.6643	2507.95	.	.V	.	Q	.	.	.
17.583	1141.1874	2544.35	.	.V	.	Q	.	.	.
17.667	1159.0988	2600.73	.	.V	.	Q	.	.	.
17.750	1177.1473	2620.65	.	.V	.	Q	.	.	.
17.833	1195.3132	2637.69	.	.V	.	Q	.	.	.
17.917	1213.6306	2659.68	.	.V	.	Q	.	.	.
18.000	1232.1376	2687.21	.	.V	.	Q	.	.	.
18.083	1251.2864	2780.41	.	.V	.	Q	.	.	.
18.167	1270.3436	2767.11	.	.V	.	Q	.	.	.
18.250	1289.1831	2735.49	.	.V	.	Q	.	.	.
18.333	1308.0969	2746.29	.	.V	.	Q	.	.	.
18.417	1327.2435	2780.08	.	.V	.	Q	.	.	.

18.500	1346.7209	2828.12	.	.	.	V	.	Q	.
18.583	1366.4459	2864.07	.	.	.	.V	.	Q	.
18.667	1385.9231	2828.09	.	.	.	.V	.	Q	.
18.750	1405.1920	2797.84	.	.	.	.V	.	Q	.
18.833	1424.4387	2794.62	.	.	.	.V	.	Q	.
18.917	1443.9392	2831.48	.	.	.	.V	.	Q	.
19.000	1463.6813	2866.55	.	.	.	.V	.	Q	.
19.083	1483.2261	2837.90	.	.	.	.V	.	Q	.
19.167	1503.1746	2896.52	.	.	.	.V	.	Q	.
19.250	1522.7568	2843.34	.	.	.	.V	.	Q	.
19.333	1541.7847	2762.84	.	.	.	.V	.	Q	.
19.417	1560.9652	2785.02	.	.	.	.V	.	Q	.
19.500	1581.0546	2916.98	.	.	.	.V	.	Q	.
19.583	1600.6517	2845.51	.	.	.	.V	.	Q	.
19.667	1620.2307	2842.87	.	.	.	.V	.	Q	.
19.750	1639.6427	2818.62	.	.	.	.V	.	Q	.
19.833	1659.3832	2866.32	.	.	.	.V	.	Q	.
19.917	1678.5944	2789.46	.	.	.	.V	.	Q	.
20.000	1697.1580	2695.44	.	.	.	.V	.	Q	.
20.083	1715.5610	2672.12	.	.	.	.V	.	Q	.
20.167	1733.7339	2638.69	.	.	.	.V	.	Q	.
20.250	1752.0476	2659.15	.	.	.	.V	.	Q	.
20.333	1770.5334	2684.15	.	.	.	.V	.	Q	.
20.417	1789.2770	2721.57	.	.	.	.V	.	Q	.
20.500	1807.5764	2657.08	.	.	.	.V	.	Q	.
20.583	1825.1775	2555.68	.	.	.	.V	.	Q	.
20.667	1842.4370	2506.09	.	.	.	.V	.	Q	.
20.750	1859.5461	2484.24	.	.	.	.V	.	Q	.
20.833	1876.7637	2499.98	.	.	.	.V	.	Q	.
20.917	1893.4586	2424.10	.	.	.	.V	.	Q	.
21.000	1909.8458	2379.42	.	.	.	.V	.	Q	.
21.083	1926.1594	2368.73	.	.	.	.V	.	Q	.
21.167	1942.2035	2329.60	.	.	.	.V	.	Q	.
21.250	1957.8552	2272.63	.	.	.	.V	.	Q	.
21.333	1973.0074	2200.10	.	.	.	.V	.	Q	.
21.417	1987.9247	2165.98	.	.	.	.V	.	Q	.
21.500	2002.5724	2126.84	.	.	.	.V	.	Q	.
21.583	2017.0072	2095.93	.	.	.	.V	.	Q	.
21.667	2031.2367	2066.13	.	.	.	.V	.	Q	.
21.750	2045.1891	2025.89	.	.	.	.V	.	Q	.
21.833	2058.7605	1970.56	.	.	.	.V	.	Q	.
21.917	2072.0579	1930.78	.	.	.	.V	.	Q	.
22.000	2085.0645	1888.56	.	.	.	.V	.	Q	.
22.083	2097.8325	1853.91	.	.	.	.V	.	Q	.
22.167	2110.2695	1805.84	.	.	.	.V	.	Q	.
22.250	2122.4031	1761.81	.	.	.	.V	.	Q	.
22.333	2134.2996	1727.36	.	.	.	.V	.	Q	.
22.417	2145.8313	1674.41	.	.	.	.V	.	Q	.
22.500	2157.0483	1628.72	.	.	.	.V	.	Q	.
22.583	2168.0454	1596.78	.	.	.	.V	.	Q	.
22.667	2178.8281	1565.65	.	.	.	.V	.	Q	.
22.750	2189.3550	1528.49	.	.	.	.V	.	Q	.
22.833	2199.6382	1493.14	.	.	.	.V	.	Q	.
22.917	2209.7236	1464.40	.	.	.	.V	.	Q	.
23.000	2219.6199	1436.92	.	.	.	.V	.	Q	.
23.083	2229.2927	1404.51	.	.	.	.V	.	Q	.
23.167	2238.7361	1371.16	.	.	.	.V	.	Q	.
23.250	2247.9956	1344.47	.	.	.	.V	.	Q	.



23.333	2257.0884	1320.26	.	.	Q	.	.	V	.
23.417	2266.0151	1296.16	.	.	Q	.	.	V	.
23.500	2274.7039	1261.60	.	.	Q	.	.	V	.
23.583	2283.1667	1228.82	.	.	Q	.	.	V	.
23.667	2291.4812	1207.25	.	.	Q	.	.	V	.
23.750	2299.6536	1186.61	.	.	Q	.	.	V	.
23.833	2307.6873	1166.49	.	.	Q	.	.	V	.
23.917	2315.5769	1145.56	.	.	Q	.	.	V	.
24.000	2323.3230	1124.73	.	.	Q	.	.	V	.
24.083	2330.8806	1097.38	.	.	Q	.	.	V	.
24.167	2338.2180	1065.38	.	.	Q	.	.	V	.
24.250	2345.4214	1045.94	.	.	Q	.	.	V	.
24.333	2352.4961	1027.25	.	.	Q	.	.	V	.
24.417	2359.4551	1010.44	.	.	Q	.	.	V	.
24.500	2366.3069	994.89	.	.	Q	.	.	V	.
24.583	2373.0569	980.10	.	.	Q	.	.	V	.
24.667	2379.7029	964.98	.	.	Q	.	.	V	.
24.750	2386.2483	950.39	.	.	Q	.	.	V	.
24.833	2392.6921	935.64	.	.	Q	.	.	V	.
24.917	2399.0305	920.33	.	.	Q	.	.	V	.
25.000	2405.2566	904.02	.	.	Q	.	.	V	.
25.083	2411.2900	876.06	.	.	Q	.	.	V	.
25.167	2417.1626	852.70	.	.	Q	.	.	V	.
25.250	2422.9304	837.49	.	.	Q	.	.	V	.
25.333	2428.5981	822.94	.	.	Q	.	.	V	.
25.417	2434.1558	806.98	.	.	Q	.	.	V	.
25.500	2439.6008	790.63	.	.	Q	.	.	V	.
25.583	2444.9373	774.87	.	.	Q	.	.	V	.
25.667	2450.1575	757.98	.	.	Q	.	.	V	.
25.750	2455.2632	741.35	.	.	Q	.	.	V	.
25.833	2460.2563	725.02	.	.	Q	.	.	V	.
25.917	2465.1389	708.94	.	.	Q	.	.	V	.
26.000	2469.9080	692.47	.	.	Q	.	.	V	.
26.083	2474.5574	675.11	.	.	Q	.	.	V	.
26.167	2479.1003	659.63	.	.	Q	.	.	V	.
26.250	2483.5498	646.06	.	.	Q	.	.	V	.
26.333	2487.9055	632.46	.	.	Q	.	.	V	.
26.417	2492.1648	618.46	.	.	Q	.	.	V	.
26.500	2496.3252	604.09	.	.	Q	.	.	V	.
26.583	2500.3743	587.92	.	.	Q	.	.	V	.
26.667	2504.3247	573.60	.	.	Q	.	.	V	.
26.750	2508.1819	560.06	.	.	Q	.	.	V	.
26.833	2511.9519	547.41	.	.	Q	.	.	V	.
26.917	2515.6226	532.98	.	.	Q	.	.	V	.
27.000	2519.1899	517.98	.	.	Q	.	.	V	.
27.083	2522.6636	504.35	.	.	Q	.	.	V	.
27.167	2526.0300	488.82	.	.	Q	.	.	V	.
27.250	2529.2969	474.34	.	.	Q	.	.	V	.
27.333	2532.4834	462.67	.	.	Q	.	.	V	.
27.417	2535.5857	450.46	.	.	Q	.	.	V	.
27.500	2538.5728	433.72	.	.	Q	.	.	V	.
27.583	2541.4590	419.09	.	.	Q	.	.	V	.
27.667	2544.2417	404.07	.	.	Q	.	.	V	.
27.750	2546.9226	389.28	.	.	Q	.	.	V	.
27.833	2549.4875	372.42	.	.	Q	.	.	V	.
27.917	2551.9500	357.55	.	.	Q	.	.	V	.
28.000	2554.3286	345.38	.	.	Q	.	.	V	.
28.083	2556.6250	333.42	.	.	Q	.	.	V	.

28.167	2558.8435	322.11	.	Q	.	.	.	V	.
28.250	2560.9780	309.93	.	Q	.	.	.	V	.
28.333	2563.0215	296.73	.	Q	.	.	.	V	.
28.417	2564.9614	281.69	.	Q	.	.	.	V	.
28.500	2566.8052	267.73	.	Q	.	.	.	V	.
28.583	2568.5718	256.52	.	Q	.	.	.	V	.
28.667	2570.2676	246.24	.	Q	.	.	.	V	.
28.750	2571.8943	236.20	.	Q	.	.	.	V	.
28.833	2573.4426	224.83	.	Q	.	.	.	V	.
28.917	2574.9246	215.18	.	Q	.	.	.	V	.
29.000	2576.3438	206.06	.	Q	.	.	.	V	.
29.083	2577.6946	196.13	.	Q	.	.	.	V	.
29.167	2578.9631	184.20	.	Q	.	.	.	V	.
29.250	2580.1406	170.98	.	Q	.	.	.	V	.
29.333	2581.2698	163.94	.	Q	.	.	.	V	.
29.417	2582.3516	157.08	.	Q	.	.	.	V	.
29.500	2583.3857	150.18	.	Q	.	.	.	V	.
29.583	2584.3701	142.92	.	Q	.	.	.	V	.
29.667	2585.3030	135.44	.	Q	.	.	.	V	.
29.750	2586.1853	128.10	.	Q	.	.	.	V	.
29.833	2587.0203	121.22	.	Q	.	.	.	V	.
29.917	2587.8086	114.45	.	Q	.	.	.	V	.
30.000	2588.5527	108.06	.	Q	.	.	.	V	.
30.083	2589.2537	101.76	.	Q	.	.	.	V	.
30.167	2589.9158	96.13	.	Q	.	.	.	V	.
30.250	2590.5437	91.16	.	Q	.	.	.	V	.
30.333	2591.1377	86.24	.	Q	.	.	.	V	.
30.417	2591.7017	81.89	.	Q	.	.	.	V	.
30.500	2592.2383	77.92	.	Q	.	.	.	V	.
30.583	2592.7478	73.98	.	Q	.	.	.	V	.
30.667	2593.2305	70.09	.	Q	.	.	.	V	.
30.750	2593.6880	66.42	.	Q	.	.	.	V	.
30.833	2594.1211	62.88	.	Q	.	.	.	V	.
30.917	2594.5300	59.36	.	Q	.	.	.	V	.
31.000	2594.9148	55.88	.	Q	.	.	.	V	.
31.083	2595.2764	52.50	.	Q	.	.	.	V	.
31.167	2595.6169	49.44	.	Q	.	.	.	V	.
31.250	2595.9385	46.69	.	Q	.	.	.	V	.
31.333	2596.2412	43.96	.	Q	.	.	.	V	.
31.417	2596.5254	41.26	.	Q	.	.	.	V	.
31.500	2596.7939	38.98	.	Q	.	.	.	V	.
31.583	2597.0496	37.10	.	Q	.	.	.	V	.
31.667	2597.2922	35.23	.	Q	.	.	.	V	.
31.750	2597.5222	33.38	.	Q	.	.	.	V	.
31.833	2597.7395	31.55	.	Q	.	.	.	V	.
31.917	2597.9443	29.74	.	Q	.	.	.	V	.
32.000	2598.1367	27.94	.	Q	.	.	.	V	.
32.083	2598.3181	26.34	.	Q	.	.	.	V	.
32.167	2598.4915	25.15	.	Q	.	.	.	V	.
32.250	2598.6567	23.99	.	Q	.	.	.	V	.
32.333	2598.8140	22.83	.	Q	.	.	.	V	.
32.417	2598.9634	21.68	.	Q	.	.	.	V	.
32.500	2599.1050	20.55	.	Q	.	.	.	V	.
32.583	2599.2388	19.42	.	Q	.	.	.	V	.
32.667	2599.3650	18.31	.	Q	.	.	.	V	.
32.750	2599.4834	17.20	.	Q	.	.	.	V	.
32.833	2599.5942	16.11	.	Q	.	.	.	V	.
32.917	2599.6978	15.02	.	Q	.	.	.	V	.

33.000	2599.7937	13.94	Q	.	.	.	V.
33.083	2599.8853	13.29	Q	.	.	.	V.
33.167	2599.9744	12.95	Q	.	.	.	V.
33.250	2600.0613	12.62	Q	.	.	.	V.
33.333	2600.1460	12.28	Q	.	.	.	V.
33.417	2600.2283	11.96	Q	.	.	.	V.
33.500	2600.3083	11.64	Q	.	.	.	V.
33.583	2600.3862	11.32	Q	.	.	.	V.
33.667	2600.4619	11.00	Q	.	.	.	V.
33.750	2600.5354	10.69	Q	.	.	.	V.
33.833	2600.6069	10.38	Q	.	.	.	V.
33.917	2600.6763	10.07	Q	.	.	.	V.
34.000	2600.7434	9.76	Q	.	.	.	V.
34.083	2600.8086	9.46	Q	.	.	.	V.
34.167	2600.8718	9.17	Q	.	.	.	V.
34.250	2600.9329	8.87	Q	.	.	.	V.
34.333	2600.9919	8.57	Q	.	.	.	V.
34.417	2601.0491	8.29	Q	.	.	.	V.
34.500	2601.1042	7.99	Q	.	.	.	V.
34.583	2601.1575	7.71	Q	.	.	.	V.
34.667	2601.2087	7.43	Q	.	.	.	V.
34.750	2601.2581	7.16	Q	.	.	.	V.
34.833	2601.3054	6.87	Q	.	.	.	V.
34.917	2601.3508	6.60	Q	.	.	.	V.
35.000	2601.3943	6.32	Q	.	.	.	V.
35.083	2601.4360	6.05	Q	.	.	.	V.
35.167	2601.4758	5.79	Q	.	.	.	V.
35.250	2601.5139	5.52	Q	.	.	.	V.
35.333	2601.5500	5.26	Q	.	.	.	V.
35.417	2601.5845	5.00	Q	.	.	.	V.
35.500	2601.6172	4.74	Q	.	.	.	V.
35.583	2601.6479	4.48	Q	.	.	.	V.
35.667	2601.6770	4.23	Q	.	.	.	V.
35.750	2601.7043	3.98	Q	.	.	.	V.
35.833	2601.7300	3.73	Q	.	.	.	V.
35.917	2601.7539	3.48	Q	.	.	.	V.
36.000	2601.7761	3.23	Q	.	.	.	V.

-----

TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
 (Note: 100% of Peak Flow Rate estimate assumed to have  
 an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
0%	2165.0
10%	1470.0
20%	1180.0
30%	765.0
40%	580.0
50%	475.0
60%	390.0
70%	320.0
80%	240.0
90%	165.0

=====

END OF FLOODSCx ROUTING ANALYSIS

\*\*\*\*\*

FLOOD ROUTING ANALYSIS  
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)  
(c) Copyright 1989-2013 Advanced Engineering Software (aes)  
Ver. 20.0 Release Date: 06/01/2013 License ID 1237

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*  
\* RMV PA-3 ROMP AMENDMENT 2022 - NODE 134T \*  
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*  
\* 5-YR EV OCT 2022 ROKAMOTO \*  
\*\*\*\*\*

FILE NAME: EV0534TS.DAT  
TIME/DATE OF STUDY: 11:10 10/25/2022

\*\*\*\*\*

FLOW PROCESS FROM NODE 13500.00 TO NODE 134.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<

=====

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 3859.700 ACRES  
BASEFLOW = 0.000 CFS/SQUARE-MILE  
\*USER ENTERED "LAG" TIME = 2.180 HOURS  
VALLEY (DEVELOPED) S-GRAPH SELECTED  
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.473  
LOW LOSS FRACTION = 0.843  
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.18  
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.41  
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 0.55  
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 0.92  
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 1.27  
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 2.12

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:  
5-MINUTE FACTOR = 0.828  
30-MINUTE FACTOR = 0.828  
1-HOUR FACTOR = 0.828  
3-HOUR FACTOR = 0.974  
6-HOUR FACTOR = 0.987  
24-HOUR FACTOR = 0.992

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES  
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 3.823

=====

UNIT HYDROGRAPH DETERMINATION

-----

INTERVAL NUMBER	"S" GRAPH MEAN VALUES	UNIT HYDROGRAPH ORDINATES (CFS)
1	0.218	101.962
2	0.655	203.924
3	1.092	203.924
4	1.529	203.924
5	1.986	213.398
6	2.613	292.547
7	3.278	310.320
8	3.990	332.614
9	5.118	526.172
10	6.458	625.643
11	8.120	775.661
12	10.093	920.919
13	12.016	898.059
14	14.050	949.349
15	16.610	1194.656
16	18.667	960.400
17	20.889	1037.271
18	23.644	1286.023
19	25.982	1091.230
20	28.312	1087.328
21	31.086	1295.291
22	34.292	1496.455
23	36.937	1234.690
24	40.030	1443.382
25	43.540	1638.799
26	47.122	1671.906
27	50.921	1773.104
28	53.707	1300.404
29	56.394	1254.148
30	59.639	1515.081
31	63.313	1714.791
32	66.090	1296.348
33	68.775	1253.182
34	71.351	1202.708
35	73.748	1118.818
36	76.025	1062.860
37	77.789	823.411
38	79.490	794.013
39	81.256	824.362
40	82.945	788.116
41	84.500	725.804
42	85.927	666.121
43	87.142	567.324
44	88.236	510.679
45	89.143	423.214
46	90.028	413.257
47	90.843	380.162
48	91.647	375.632

49	92.409	355.600
50	93.137	339.859
51	93.853	334.132
52	94.395	253.163
53	94.881	226.692
54	95.366	226.571
55	95.849	225.022
56	96.208	167.900
57	96.508	140.001
58	96.808	139.997
59	97.108	139.876
60	97.408	140.001
61	97.707	139.876
62	97.976	125.332
63	98.073	45.552
64	98.145	33.390
65	98.217	33.625
66	98.288	33.273
67	98.360	33.387
68	98.432	33.512
69	98.504	33.625
70	98.575	33.390
71	98.647	33.390
72	98.719	33.629
73	98.790	33.387
74	98.862	33.390
75	98.933	33.390
76	99.005	33.625
77	99.077	33.390
78	99.148	33.390
79	99.220	33.390
80	99.292	33.390
81	99.363	33.390
82	99.435	33.390
83	99.506	33.390
84	99.578	33.390
85	99.649	33.390
86	99.721	33.390
87	99.792	33.390
88	99.864	33.390
89	99.935	33.390
90	100.000	30.196

-----  
TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 539.9012  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 136.9404  
-----

=====

2 4 - 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 FIVE-MINUTE UNIT INTERVALS (CFS)  
(Note: Time indicated is at END of Each Unit Intervals)

TIME (HRS)	VOLUME (AF)	Q (CFS)	0.	100.0	200.0	300.0	400.0
0.083	0.0003	0.04	Q	.	.	.	.
0.167	0.0012	0.13	Q	.	.	.	.
0.250	0.0027	0.22	Q	.	.	.	.
0.333	0.0049	0.31	Q	.	.	.	.
0.417	0.0076	0.40	Q	.	.	.	.
0.500	0.0113	0.53	Q	.	.	.	.
0.583	0.0158	0.66	Q	.	.	.	.
0.667	0.0214	0.81	Q	.	.	.	.
0.750	0.0286	1.04	Q	.	.	.	.
0.833	0.0376	1.31	Q	.	.	.	.
0.917	0.0490	1.65	Q	.	.	.	.
1.000	0.0632	2.05	Q	.	.	.	.
1.083	0.0800	2.45	Q	.	.	.	.
1.167	0.0997	2.87	Q	.	.	.	.
1.250	0.1231	3.39	Q	.	.	.	.
1.333	0.1494	3.81	Q	.	.	.	.
1.417	0.1788	4.27	Q	.	.	.	.
1.500	0.2122	4.84	Q	.	.	.	.
1.583	0.2489	5.33	Q	.	.	.	.
1.667	0.2889	5.82	Q	.	.	.	.
1.750	0.3330	6.39	Q	.	.	.	.
1.833	0.3816	7.06	Q	.	.	.	.
1.917	0.4340	7.62	Q	.	.	.	.
2.000	0.4910	8.26	Q	.	.	.	.
2.083	0.5529	9.00	Q	.	.	.	.
2.167	0.6201	9.75	Q	.	.	.	.
2.250	0.6927	10.55	VQ	.	.	.	.
2.333	0.7695	11.14	VQ	.	.	.	.
2.417	0.8502	11.72	VQ	.	.	.	.
2.500	0.9358	12.42	VQ	.	.	.	.
2.583	1.0267	13.20	VQ	.	.	.	.
2.667	1.1217	13.80	VQ	.	.	.	.
2.750	1.2208	14.39	VQ	.	.	.	.
2.833	1.3239	14.96	VQ	.	.	.	.
2.917	1.4306	15.49	VQ	.	.	.	.
3.000	1.5408	16.01	VQ	.	.	.	.
3.083	1.6539	16.42	VQ	.	.	.	.
3.167	1.7697	16.82	VQ	.	.	.	.
3.250	1.8884	17.23	VQ	.	.	.	.
3.333	2.0099	17.63	VQ	.	.	.	.
3.417	2.1339	18.01	VQ	.	.	.	.
3.500	2.2604	18.36	VQ	.	.	.	.
3.583	2.3890	18.67	VQ	.	.	.	.
3.667	2.5196	18.96	VQ	.	.	.	.
3.750	2.6519	19.21	VQ	.	.	.	.
3.833	2.7859	19.46	VQ	.	.	.	.
3.917	2.9216	19.70	VQ	.	.	.	.

4.000	3.0588	19.93	VQ	.	.	.	.
4.083	3.1977	20.16	V Q	.	.	.	.
4.167	3.3380	20.38	V Q	.	.	.	.
4.250	3.4799	20.60	.VQ	.	.	.	.
4.333	3.6231	20.79	.VQ	.	.	.	.
4.417	3.7675	20.96	.VQ	.	.	.	.
4.500	3.9131	21.14	.VQ	.	.	.	.
4.583	4.0599	21.32	.VQ	.	.	.	.
4.667	4.2078	21.48	.VQ	.	.	.	.
4.750	4.3567	21.62	.VQ	.	.	.	.
4.833	4.5066	21.76	.VQ	.	.	.	.
4.917	4.6575	21.91	.VQ	.	.	.	.
5.000	4.8094	22.06	.VQ	.	.	.	.
5.083	4.9623	22.20	.VQ	.	.	.	.
5.167	5.1162	22.35	.VQ	.	.	.	.
5.250	5.2709	22.46	.VQ	.	.	.	.
5.333	5.4262	22.56	.VQ	.	.	.	.
5.417	5.5824	22.67	.VQ	.	.	.	.
5.500	5.7392	22.78	.VQ	.	.	.	.
5.583	5.8968	22.88	.VQ	.	.	.	.
5.667	6.0552	22.99	.VQ	.	.	.	.
5.750	6.2143	23.10	.VQ	.	.	.	.
5.833	6.3742	23.22	.VQ	.	.	.	.
5.917	6.5348	23.33	.VQ	.	.	.	.
6.000	6.6963	23.44	.VQ	.	.	.	.
6.083	6.8585	23.56	. Q	.	.	.	.
6.167	7.0216	23.67	. Q	.	.	.	.
6.250	7.1854	23.79	. Q	.	.	.	.
6.333	7.3501	23.91	. Q	.	.	.	.
6.417	7.5156	24.03	. Q	.	.	.	.
6.500	7.6819	24.15	. Q	.	.	.	.
6.583	7.8491	24.27	. Q	.	.	.	.
6.667	8.0171	24.40	. Q	.	.	.	.
6.750	8.1860	24.52	. Q	.	.	.	.
6.833	8.3557	24.65	. Q	.	.	.	.
6.917	8.5264	24.78	. Q	.	.	.	.
7.000	8.6979	24.91	. Q	.	.	.	.
7.083	8.8703	25.04	. Q	.	.	.	.
7.167	9.0437	25.17	. Q	.	.	.	.
7.250	9.2179	25.30	. Q	.	.	.	.
7.333	9.3931	25.44	. Q	.	.	.	.
7.417	9.5693	25.58	. Q	.	.	.	.
7.500	9.7464	25.71	. Q	.	.	.	.
7.583	9.9243	25.84	. Q	.	.	.	.
7.667	10.1032	25.97	. Q	.	.	.	.
7.750	10.2829	26.10	. QV	.	.	.	.
7.833	10.4635	26.23	. QV	.	.	.	.
7.917	10.6450	26.36	. QV	.	.	.	.
8.000	10.8275	26.49	. QV	.	.	.	.
8.083	11.0109	26.63	. QV	.	.	.	.
8.167	11.1953	26.77	. QV	.	.	.	.
8.250	11.3806	26.91	. QV	.	.	.	.
8.333	11.5669	27.05	. QV	.	.	.	.
8.417	11.7541	27.19	. QV	.	.	.	.
8.500	11.9424	27.34	. QV	.	.	.	.
8.583	12.1317	27.49	. QV	.	.	.	.
8.667	12.3221	27.64	. QV	.	.	.	.
8.750	12.5135	27.79	. QV	.	.	.	.

8.833	12.7059	27.94	. QV	.	.	.	.
8.917	12.8994	28.10	. QV	.	.	.	.
9.000	13.0941	28.26	. QV	.	.	.	.
9.083	13.2898	28.42	. QV	.	.	.	.
9.167	13.4867	28.59	. QV	.	.	.	.
9.250	13.6847	28.75	. QV	.	.	.	.
9.333	13.8839	28.92	. Q V	.	.	.	.
9.417	14.0843	29.09	. Q V	.	.	.	.
9.500	14.2858	29.27	. Q V	.	.	.	.
9.583	14.4886	29.44	. Q V	.	.	.	.
9.667	14.6926	29.62	. Q V	.	.	.	.
9.750	14.8979	29.81	. Q V	.	.	.	.
9.833	15.1045	29.99	. Q V	.	.	.	.
9.917	15.3124	30.18	. QV	.	.	.	.
10.000	15.5216	30.38	. QV	.	.	.	.
10.083	15.7321	30.57	. QV	.	.	.	.
10.167	15.9440	30.77	. QV	.	.	.	.
10.250	16.1574	30.97	. QV	.	.	.	.
10.333	16.3721	31.18	. QV	.	.	.	.
10.417	16.5883	31.39	. QV	.	.	.	.
10.500	16.8059	31.60	. QV	.	.	.	.
10.583	17.0251	31.82	. QV	.	.	.	.
10.667	17.2457	32.04	. Q V	.	.	.	.
10.750	17.4679	32.27	. Q V	.	.	.	.
10.833	17.6917	32.50	. Q V	.	.	.	.
10.917	17.9172	32.73	. Q V	.	.	.	.
11.000	18.1442	32.97	. Q V	.	.	.	.
11.083	18.3730	33.21	. Q V	.	.	.	.
11.167	18.6034	33.46	. Q V	.	.	.	.
11.250	18.8356	33.71	. Q V	.	.	.	.
11.333	19.0696	33.97	. Q V	.	.	.	.
11.417	19.3054	34.24	. Q V	.	.	.	.
11.500	19.5430	34.51	. Q V	.	.	.	.
11.583	19.7825	34.78	. Q V	.	.	.	.
11.667	20.0240	35.06	. Q V	.	.	.	.
11.750	20.2675	35.35	. Q V	.	.	.	.
11.833	20.5129	35.64	. Q V	.	.	.	.
11.917	20.7605	35.94	. Q V	.	.	.	.
12.000	21.0101	36.25	. Q V	.	.	.	.
12.083	21.2622	36.59	. Q V	.	.	.	.
12.167	21.5168	36.98	. Q V	.	.	.	.
12.250	21.7742	37.37	. Q V	.	.	.	.
12.333	22.0343	37.77	. Q V	.	.	.	.
12.417	22.2972	38.18	. Q V	.	.	.	.
12.500	22.5632	38.62	. Q V	.	.	.	.
12.583	22.8323	39.08	. Q V	.	.	.	.
12.667	23.1047	39.55	. Q V	.	.	.	.
12.750	23.3808	40.09	. Q V	.	.	.	.
12.833	23.6609	40.67	. Q V	.	.	.	.
12.917	23.9454	41.31	. Q V	.	.	.	.
13.000	24.2348	42.01	. Q V	.	.	.	.
13.083	24.5289	42.71	. Q V	.	.	.	.
13.167	24.8280	43.44	. Q V	.	.	.	.
13.250	25.1328	44.25	. Q V	.	.	.	.
13.333	25.4428	45.01	. Q V	.	.	.	.
13.417	25.7583	45.81	. Q V	.	.	.	.
13.500	26.0800	46.70	. Q V	.	.	.	.
13.583	26.4074	47.55	. Q V	.	.	.	.

13.667	26.7408	48.41	.	Q	V	.	.	.	.
13.750	27.0808	49.36	.	Q	V	.	.	.	.
13.833	27.4278	50.38	.	Q	V	.	.	.	.
13.917	27.7814	51.35	.	Q	V	.	.	.	.
14.000	28.1423	52.40	.	Q	V	.	.	.	.
14.083	28.5114	53.59	.	Q	V	.	.	.	.
14.167	28.8893	54.87	.	Q	V	.	.	.	.
14.250	29.2763	56.20	.	Q	V	.	.	.	.
14.333	29.6718	57.42	.	Q	V	.	.	.	.
14.417	30.0758	58.66	.	Q	V	.	.	.	.
14.500	30.4893	60.05	.	Q	V	.	.	.	.
14.583	30.9131	61.54	.	Q	V	.	.	.	.
14.667	31.3467	62.95	.	Q	V	.	.	.	.
14.750	31.7909	64.50	.	Q	V	.	.	.	.
14.833	32.2462	66.11	.	Q	V	.	.	.	.
14.917	32.7133	67.83	.	Q	V	.	.	.	.
15.000	33.1930	69.65	.	Q	V	.	.	.	.
15.083	33.6850	71.44	.	Q	V	.	.	.	.
15.167	34.1898	73.30	.	Q	V	.	.	.	.
15.250	34.7089	75.36	.	Q	V	.	.	.	.
15.333	35.2416	77.36	.	Q	V	.	.	.	.
15.417	35.7879	79.32	.	Q	V	.	.	.	.
15.500	36.3482	81.35	.	Q	V	.	.	.	.
15.583	36.9222	83.35	.	Q	V	.	.	.	.
15.667	37.5107	85.45	.	Q	V	.	.	.	.
15.750	38.1156	87.83	.	Q	.V	.	.	.	.
15.833	38.7386	90.45	.	Q	.V	.	.	.	.
15.917	39.3807	93.24	.	Q	.V	.	.	.	.
16.000	40.0516	97.42	.	Q	.V	.	.	.	.
16.083	40.8248	112.26	.	.	Q	.	.	.	.
16.167	41.6927	126.02	.	.	Q	.	.	.	.
16.250	42.5803	128.87	.	.	Q	.	.	.	.
16.333	43.4852	131.40	.	.	VQ	.	.	.	.
16.417	44.4220	136.02	.	.	VQ	.	.	.	.
16.500	45.4396	147.77	.	.	VQ	.	.	.	.
16.583	46.4962	153.41	.	.	V	Q	.	.	.
16.667	47.6088	161.55	.	.	V	Q	.	.	.
16.750	48.8951	186.77	.	.	V	Q	.	.	.
16.833	50.2891	202.41	.	.	V	Q	.	.	.
16.917	51.8261	223.17	.	.	V	Q	.	.	.
17.000	53.4872	241.19	.	.	V	Q	.	.	.
17.083	55.1535	241.95	.	.	V	Q	.	.	.
17.167	56.8862	251.59	.	.	V	Q	.	.	.
17.250	58.7937	276.97	.	.	V	Q	.	.	.
17.333	60.5507	255.11	.	.	V	Q	.	.	.
17.417	62.3872	266.67	.	.	V	Q	.	.	.
17.500	64.3982	291.99	.	.	V	Q	.	.	.
17.583	66.2765	272.73	.	.	V	Q	.	.	.
17.667	68.1762	275.84	.	.	V	Q	.	.	.
17.750	70.2489	300.96	.	.	V	Q	.	.	.
17.833	72.4571	320.62	.	.	.V	.	Q	.	.
17.917	74.4933	295.66	.	.	.V	.	Q	.	.
18.000	76.6932	319.42	.	.	.V	.	Q	.	.
18.083	79.0369	340.31	.	.	.V	.	Q	.	.
18.167	81.4043	343.75	.	.	.V	.	Q	.	.
18.250	83.7976	347.51	.	.	.V	.	Q	.	.
18.333	85.8330	295.53	.	.	.V	.	Q	.	.
18.417	87.8431	291.87	.	.	.V	.	Q	.	.

18.500	90.0432	319.46	.	.	.	.	V	.Q	.
18.583	92.3445	334.14	.	.	.	.	V	.Q	.
18.667	94.3169	286.39	.	.	.	.	VQ	.	.
18.750	96.2250	277.06	.	.	.	.	QV	.	.
18.833	98.0654	267.23	.	.	.	.	Q	V	.
18.917	99.8178	254.44	.	.	.	.	Q	V	.
19.000	101.4857	242.18	.	.	.	.	Q	V	.
19.083	102.9527	213.01	.	.	.	.	.Q	V	.
19.167	104.3753	206.56	.	.	.	.	Q	V	.
19.250	105.7922	205.74	.	.	.	.	Q	V	.
19.333	107.1552	197.90	.	.	.	.	Q	.V	.
19.417	108.4422	186.88	.	.	.	.	Q	.V	.
19.500	109.6511	175.53	.	.	.	.	Q	.V	.
19.583	110.7568	160.56	.	.	.	.	Q	.V	.
19.667	111.7914	150.22	.	.	.	.	Q	.V	.
19.750	112.7392	137.63	.	.	.	.	Q	.V	.
19.833	113.6558	133.08	.	.	.	.	Q	.V	.
19.917	114.5280	126.65	.	.	.	.	Q	.V	.
20.000	115.3757	123.08	.	.	.	.	Q	.V	.
20.083	116.1885	118.02	.	.	.	.	.Q	.V	.
20.167	116.9699	113.46	.	.	.	.	.Q	.V	.
20.250	117.7218	109.17	.	.	.	.	Q	.V	.
20.333	118.3951	97.76	.	.	.	.	Q	.V	.
20.417	119.0318	92.45	.	.	.	.	Q	.V	.
20.500	119.6514	89.97	.	.	.	.	Q	.V	.
20.583	120.2503	86.96	.	.	.	.	Q	.V	.
20.667	120.7916	78.59	.	.	.	.	Q	.V	.
20.750	121.2991	73.70	.	.	.	.	Q	.V	.
20.833	121.7944	71.91	.	.	.	.	Q	.V	.
20.917	122.2780	70.21	.	.	.	.	Q	.V	.
21.000	122.7497	68.49	.	.	.	.	Q	.V	.
21.083	123.2081	66.56	.	.	.	.	Q	.V	.
21.167	123.6386	62.51	.	.	.	.	Q	.V	.
21.250	123.9993	52.38	.	.	.	.	Q	.V	.
21.333	124.3414	49.66	.	.	.	.	Q	.V	.
21.417	124.6753	48.49	.	.	.	.	Q	.V	.
21.500	125.0017	47.39	.	.	.	.	Q	.V	.
21.583	125.3206	46.31	.	.	.	.	Q	.V	.
21.667	125.6328	45.33	.	.	.	.	Q	.V	.
21.750	125.9388	44.43	.	.	.	.	Q	.V	.
21.833	126.2387	43.54	.	.	.	.	Q	.V	.
21.917	126.5329	42.72	.	.	.	.	Q	.V	.
22.000	126.8218	41.95	.	.	.	.	Q	.V	.
22.083	127.1053	41.17	.	.	.	.	Q	.V	.
22.167	127.3839	40.45	.	.	.	.	Q	.V	.
22.250	127.6580	39.79	.	.	.	.	Q	.V	.
22.333	127.9280	39.21	.	.	.	.	Q	.V	.
22.417	128.1938	38.60	.	.	.	.	Q	.V	.
22.500	128.4558	38.04	.	.	.	.	Q	.V	.
22.583	128.7140	37.49	.	.	.	.	Q	.V	.
22.667	128.9686	36.97	.	.	.	.	Q	.V	.
22.750	129.2197	36.46	.	.	.	.	Q	.V	.
22.833	129.4674	35.97	.	.	.	.	Q	.V	.
22.917	129.7121	35.53	.	.	.	.	Q	.V	.
23.000	129.9538	35.09	.	.	.	.	Q	.V	.
23.083	130.1925	34.65	.	.	.	.	Q	.V	.
23.167	130.4281	34.22	.	.	.	.	Q	.V	.
23.250	130.6608	33.79	.	.	.	.	Q	.V	.

23.333	130.8905	33.34	. Q	.	.	.	V .
23.417	131.1165	32.82	. Q	.	.	.	V .
23.500	131.3349	31.70	. Q	.	.	.	V .
23.583	131.5282	28.07	. Q	.	.	.	V .
23.667	131.7186	27.65	. Q	.	.	.	V .
23.750	131.9066	27.30	. Q	.	.	.	V .
23.833	132.0924	26.98	. Q	.	.	.	V .
23.917	132.2758	26.63	. Q	.	.	.	V .
24.000	132.4570	26.31	. Q	.	.	.	V .
24.083	132.6357	25.95	. Q	.	.	.	V .
24.167	132.8117	25.56	. Q	.	.	.	V .
24.250	132.9851	25.18	. Q	.	.	.	V .
24.333	133.1559	24.81	. Q	.	.	.	V .
24.417	133.3243	24.44	. Q	.	.	.	V .
24.500	133.4899	24.05	. Q	.	.	.	V .
24.583	133.6530	23.68	. Q	.	.	.	V .
24.667	133.8134	23.30	. Q	.	.	.	V .
24.750	133.9708	22.85	. Q	.	.	.	V .
24.833	134.1248	22.36	. Q	.	.	.	V .
24.917	134.2751	21.82	. Q	.	.	.	V .
25.000	134.4212	21.22	. Q	.	.	.	V .
25.083	134.5634	20.64	. Q	.	.	.	V .
25.167	134.7014	20.04	. Q	.	.	.	V .
25.250	134.8346	19.35	.Q	.	.	.	V .
25.333	134.9638	18.76	.Q	.	.	.	V .
25.417	135.0888	18.15	.Q	.	.	.	V .
25.500	135.2089	17.43	.Q	.	.	.	V .
25.583	135.3248	16.82	.Q	.	.	.	V .
25.667	135.4364	16.22	.Q	.	.	.	V .
25.750	135.5434	15.53	.Q	.	.	.	V .
25.833	135.6451	14.76	.Q	.	.	.	V .
25.917	135.7422	14.11	.Q	.	.	.	V .
26.000	135.8344	13.38	.Q	.	.	.	V .
26.083	135.9210	12.57	.Q	.	.	.	V .
26.167	136.0019	11.75	.Q	.	.	.	V .
26.250	136.0770	10.90	.Q	.	.	.	V .
26.333	136.1476	10.25	.Q	.	.	.	V .
26.417	136.2139	9.63	Q	.	.	.	V .
26.500	136.2753	8.91	Q	.	.	.	V .
26.583	136.3311	8.10	Q	.	.	.	V .
26.667	136.3826	7.48	Q	.	.	.	V .
26.750	136.4300	6.89	Q	.	.	.	V .
26.833	136.4735	6.32	Q	.	.	.	V .
26.917	136.5134	5.79	Q	.	.	.	V .
27.000	136.5498	5.28	Q	.	.	.	V .
27.083	136.5834	4.89	Q	.	.	.	V .
27.167	136.6145	4.51	Q	.	.	.	V .
27.250	136.6429	4.12	Q	.	.	.	V .
27.333	136.6687	3.75	Q	.	.	.	V .
27.417	136.6922	3.41	Q	.	.	.	V .
27.500	136.7135	3.10	Q	.	.	.	V .
27.583	136.7330	2.83	Q	.	.	.	V .
27.667	136.7508	2.59	Q	.	.	.	V .
27.750	136.7673	2.39	Q	.	.	.	V .
27.833	136.7824	2.19	Q	.	.	.	V .
27.917	136.7962	2.01	Q	.	.	.	V .
28.000	136.8089	1.83	Q	.	.	.	V .
28.083	136.8203	1.67	Q	.	.	.	V .

28.167	136.8307	1.51	Q	.	.	.	V .
28.250	136.8401	1.35	Q	.	.	.	V .
28.333	136.8486	1.23	Q	.	.	.	V .
28.417	136.8563	1.13	Q	.	.	.	V .
28.500	136.8634	1.02	Q	.	.	.	V .
28.583	136.8697	0.92	Q	.	.	.	V .
28.667	136.8754	0.84	Q	.	.	.	V .
28.750	136.8808	0.77	Q	.	.	.	V .
28.833	136.8856	0.70	Q	.	.	.	V .
28.917	136.8900	0.64	Q	.	.	.	V .
29.000	136.8940	0.57	Q	.	.	.	V .
29.083	136.8975	0.51	Q	.	.	.	V .
29.167	136.9006	0.45	Q	.	.	.	V .
29.250	136.9035	0.43	Q	.	.	.	V .
29.333	136.9064	0.41	Q	.	.	.	V .
29.417	136.9091	0.39	Q	.	.	.	V .
29.500	136.9117	0.38	Q	.	.	.	V .
29.583	136.9141	0.36	Q	.	.	.	V .
29.667	136.9165	0.34	Q	.	.	.	V .
29.750	136.9187	0.32	Q	.	.	.	V .
29.833	136.9209	0.31	Q	.	.	.	V .
29.917	136.9229	0.29	Q	.	.	.	V .
30.000	136.9248	0.27	Q	.	.	.	V .
30.083	136.9265	0.26	Q	.	.	.	V .
30.167	136.9282	0.24	Q	.	.	.	V .
30.250	136.9298	0.23	Q	.	.	.	V .
30.333	136.9312	0.21	Q	.	.	.	V .
30.417	136.9326	0.19	Q	.	.	.	V .
30.500	136.9338	0.18	Q	.	.	.	V .
30.583	136.9349	0.16	Q	.	.	.	V .
30.667	136.9359	0.15	Q	.	.	.	V .
30.750	136.9369	0.13	Q	.	.	.	V .
30.833	136.9377	0.12	Q	.	.	.	V .
30.917	136.9384	0.10	Q	.	.	.	V .
31.000	136.9390	0.09	Q	.	.	.	V .
31.083	136.9395	0.07	Q	.	.	.	V .
31.167	136.9398	0.06	Q	.	.	.	V .
31.250	136.9401	0.04	Q	.	.	.	V .
31.333	136.9403	0.03	Q	.	.	.	V .
31.417	136.9404	0.01	Q	.	.	.	V .

-----  
TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
(Note: 100% of Peak Flow Rate estimate assumed to have  
an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
=====	=====
0%	1885.0
10%	690.0
20%	360.0
30%	255.0
40%	195.0
50%	170.0
60%	135.0
70%	110.0
80%	65.0
90%	35.0

=====  
END OF FLOODSCx ROUTING ANALYSIS



\*\*\*\*\*

FLOOD ROUTING ANALYSIS
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)
(c) Copyright 1989-2013 Advanced Engineering Software (aes)
Ver. 20.0 Release Date: 06/01/2013 License ID 1237

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*
\* RMV PA-3 ROMP AMENDMENT 2022 - NODE 134U \*
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*
\* 5-YR EV OCT 2022 ROKAMOTO \*

FILE NAME: EV0534US.DAT
TIME/DATE OF STUDY: 11:11 10/25/2022

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 134.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<

\*\*\*\*\*

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 62747.398 ACRES
BASEFLOW = 0.000 CFS/SQUARE-MILE
\*USER ENTERED "LAG" TIME = 3.827 HOURS
VALLEY (DEVELOPED) S-GRAPH SELECTED
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.473
LOW LOSS FRACTION = 0.825
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.22
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.44
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 0.60
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 1.10
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 1.62
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 2.83

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:
5-MINUTE FACTOR = 0.304
30-MINUTE FACTOR = 0.358
1-HOUR FACTOR = 0.405
3-HOUR FACTOR = 0.750
6-HOUR FACTOR = 0.890
24-HOUR FACTOR = 0.936

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 2.178

UNIT HYDROGRAPH DETERMINATION

Table with 3 columns: INTERVAL NUMBER, "S" GRAPH MEAN VALUES, UNIT HYDROGRAPH ORDINATES (CFS). Rows 1-48.

49	54.060	11865.505
50	55.529	11150.376
51	57.172	12466.173
52	59.015	13988.311
53	61.211	16662.400
54	63.262	15563.162
55	64.906	12477.260
56	66.391	11271.610
57	67.841	11005.348
58	69.539	12879.665
59	70.953	10733.063
60	72.257	9890.738
61	73.664	10683.736
62	75.026	10329.762
63	76.254	9324.980
64	77.232	7415.694
65	78.200	7344.251
66	79.167	7344.251
67	80.147	7432.773
68	81.168	7747.553
69	82.167	7582.492
70	83.089	6997.108
71	83.995	6872.864
72	84.835	6376.060
73	85.664	6287.538
74	86.399	5581.383
75	87.069	5082.785
76	87.738	5077.632
77	88.313	4361.346
78	88.825	3888.221
79	89.337	3888.221
80	89.848	3878.032
81	90.324	3607.485
82	90.782	3478.146
83	91.241	3479.825
84	91.699	3478.146
85	92.142	3360.733
86	92.557	3153.119
87	92.972	3144.608
88	93.387	3151.440
89	93.802	3144.608
90	94.144	2600.099
91	94.420	2096.406
92	94.697	2099.821
93	94.974	2099.821
94	95.250	2096.406
95	95.526	2096.463
96	95.804	2103.179
97	96.047	1844.559
98	96.220	1313.713
99	96.391	1296.633
100	96.561	1296.633
101	96.732	1296.633
102	96.903	1293.276
103	97.074	1300.049
104	97.245	1293.218
105	97.415	1296.633
106	97.586	1296.691

107	97.757	1296.633
108	97.928	1293.218
109	98.024	728.329
110	98.064	309.684
111	98.105	306.269
112	98.146	316.516
113	98.187	306.326
114	98.227	306.269
115	98.268	313.100
116	98.309	309.684
117	98.350	309.742
118	98.391	309.684
119	98.433	316.516
120	98.473	306.269
121	98.514	313.100
122	98.555	306.269
123	98.596	313.100
124	98.637	313.100
125	98.676	299.495
126	98.719	319.932
127	98.759	306.269
128	98.800	313.100
129	98.840	299.495
130	98.882	319.932
131	98.922	306.269
132	98.964	313.100
133	99.004	306.326
134	99.044	306.326
135	99.085	306.326
136	99.125	306.326
137	99.165	306.326
138	99.206	306.326
139	99.246	306.326
140	99.286	306.326
141	99.327	306.326
142	99.367	306.326
143	99.408	306.326
144	99.448	306.326
145	99.488	306.326
146	99.529	306.326
147	99.569	306.326
148	99.609	306.326
149	99.650	306.326
150	99.690	306.326
151	99.730	306.326
152	99.771	306.326
153	99.811	306.326
154	99.852	306.326
155	99.892	306.326
156	99.932	306.326
157	99.973	306.326
158	100.000	207.151

-----  
TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 11349.3447  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 2503.8936  
-----

=====

2 4 - 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 FIVE-MINUTE UNIT INTERVALS (CFS)  
(Note: Time indicated is at END of Each Unit Intervals)

TIME (HRS)	VOLUME (AF)	Q (CFS)	0.	725.0	1450.0	2175.0	2900.0
0.083	0.0046	0.67	Q	.	.	.	.
0.167	0.0184	2.01	Q	.	.	.	.
0.250	0.0415	3.35	Q	.	.	.	.
0.333	0.0738	4.69	Q	.	.	.	.
0.417	0.1154	6.04	Q	.	.	.	.
0.500	0.1663	7.39	Q	.	.	.	.
0.583	0.2266	8.75	Q	.	.	.	.
0.667	0.2962	10.11	Q	.	.	.	.
0.750	0.3775	11.80	Q	.	.	.	.
0.833	0.4730	13.87	Q	.	.	.	.
0.917	0.5828	15.94	Q	.	.	.	.
1.000	0.7069	18.02	Q	.	.	.	.
1.083	0.8454	20.11	Q	.	.	.	.
1.167	1.0010	22.60	Q	.	.	.	.
1.250	1.1823	26.32	Q	.	.	.	.
1.333	1.3898	30.14	Q	.	.	.	.
1.417	1.6264	34.36	Q	.	.	.	.
1.500	1.8975	39.36	Q	.	.	.	.
1.583	2.2051	44.66	Q	.	.	.	.
1.667	2.5559	50.94	Q	.	.	.	.
1.750	2.9496	57.16	Q	.	.	.	.
1.833	3.3847	63.18	Q	.	.	.	.
1.917	3.8614	69.21	Q	.	.	.	.
2.000	4.3804	75.36	VQ	.	.	.	.
2.083	4.9582	83.90	VQ	.	.	.	.
2.167	5.5897	91.69	VQ	.	.	.	.
2.250	6.2661	98.20	VQ	.	.	.	.
2.333	6.9874	104.74	VQ	.	.	.	.
2.417	7.7561	111.61	VQ	.	.	.	.
2.500	8.5805	119.70	VQ	.	.	.	.
2.583	9.4688	128.98	VQ	.	.	.	.
2.667	10.4130	137.10	VQ	.	.	.	.
2.750	11.4061	144.20	VQ	.	.	.	.
2.833	12.4483	151.33	V Q	.	.	.	.
2.917	13.5472	159.56	V Q	.	.	.	.
3.000	14.7109	168.96	V Q	.	.	.	.
3.083	15.9340	177.60	V Q	.	.	.	.
3.167	17.2345	188.84	V Q	.	.	.	.
3.250	18.6049	198.98	V Q	.	.	.	.
3.333	20.0276	206.58	V Q	.	.	.	.
3.417	21.5075	214.88	V Q	.	.	.	.
3.500	23.0753	227.65	V Q	.	.	.	.
3.583	24.7185	238.59	V Q	.	.	.	.
3.667	26.4406	250.06	V Q	.	.	.	.
3.750	28.2415	261.49	V Q	.	.	.	.
3.833	30.1359	275.06	V Q	.	.	.	.
3.917	32.1118	286.89	V Q	.	.	.	.

4.000	34.1525	296.32	V	Q	.	.	.	.
4.083	36.2576	305.66	V	Q	.	.	.	.
4.167	38.4239	314.54	V	Q	.	.	.	.
4.250	40.6578	324.37	V	Q	.	.	.	.
4.333	42.9672	335.32	V	Q	.	.	.	.
4.417	45.3652	348.20	V	Q	.	.	.	.
4.500	47.8469	360.34	V	Q	.	.	.	.
4.583	50.3975	370.35	V	Q	.	.	.	.
4.667	53.0114	379.54	V	Q	.	.	.	.
4.750	55.6876	388.57	V	Q	.	.	.	.
4.833	58.4353	398.97	V	Q	.	.	.	.
4.917	61.2444	407.88	V	Q	.	.	.	.
5.000	64.1111	416.25	.V	Q	.	.	.	.
5.083	67.0394	425.19	.V	Q	.	.	.	.
5.167	70.0279	433.93	.V	Q	.	.	.	.
5.250	73.0719	441.99	.V	Q	.	.	.	.
5.333	76.1624	448.73	.V	Q	.	.	.	.
5.417	79.2991	455.45	.V	Q	.	.	.	.
5.500	82.4824	462.21	.V	Q	.	.	.	.
5.583	85.7128	469.05	.V	Q	.	.	.	.
5.667	88.9921	476.15	.V	Q	.	.	.	.
5.750	92.3196	483.17	.V	Q	.	.	.	.
5.833	95.6929	489.80	.V	Q	.	.	.	.
5.917	99.1115	496.37	.V	Q	.	.	.	.
6.000	102.5731	502.63	.V	Q	.	.	.	.
6.083	106.0776	508.85	.V	Q	.	.	.	.
6.167	109.6218	514.61	.V	Q	.	.	.	.
6.250	113.2033	520.04	.V	Q	.	.	.	.
6.333	116.8225	525.50	.V	Q	.	.	.	.
6.417	120.4759	530.48	.V	Q	.	.	.	.
6.500	124.1616	535.16	.V	Q	.	.	.	.
6.583	127.8796	539.86	.V	Q	.	.	.	.
6.667	131.6302	544.59	.V	Q	.	.	.	.
6.750	135.4122	549.14	.V	Q	.	.	.	.
6.833	139.2252	553.65	.V	Q	.	.	.	.
6.917	143.0694	558.17	.V	Q	.	.	.	.
7.000	146.9449	562.73	.V	Q	.	.	.	.
7.083	150.8515	567.23	.V	Q	.	.	.	.
7.167	154.7883	571.62	.V	Q	.	.	.	.
7.250	158.7554	576.03	.V	Q	.	.	.	.
7.333	162.7532	580.48	.V	Q	.	.	.	.
7.417	166.7817	584.94	.V	Q	.	.	.	.
7.500	170.8386	589.07	.V	Q	.	.	.	.
7.583	174.9217	592.85	.V	Q	.	.	.	.
7.667	179.0311	596.68	.V	Q	.	.	.	.
7.750	183.1670	600.53	.V	Q	.	.	.	.
7.833	187.3297	604.42	.V	Q	.	.	.	.
7.917	191.5193	608.34	.V	Q	.	.	.	.
8.000	195.7362	612.29	.V	Q	.	.	.	.
8.083	199.9793	616.09	.V	Q	.	.	.	.
8.167	204.2462	619.56	.V	Q	.	.	.	.
8.250	208.5371	623.04	.V	Q	.	.	.	.
8.333	212.8522	626.56	.V	Q	.	.	.	.
8.417	217.1917	630.10	.V	Q	.	.	.	.
8.500	221.5560	633.68	.V	Q	.	.	.	.
8.583	225.9451	637.30	.V	Q	.	.	.	.
8.667	230.3594	640.96	.V	Q	.	.	.	.
8.750	234.7991	644.64	.V	Q	.	.	.	.

8.833	239.2645	648.38	.V	Q	.	.	.	.
8.917	243.7557	652.14	.V	Q	.	.	.	.
9.000	248.2733	655.94	.V	Q	.	.	.	.
9.083	252.8144	659.38	.V	Q	.	.	.	.
9.167	257.3776	662.57	.V	Q	.	.	.	.
9.250	261.9629	665.79	.V	Q	.	.	.	.
9.333	266.5707	669.06	.V	Q	.	.	.	.
9.417	271.2013	672.36	.V	Q	.	.	.	.
9.500	275.8549	675.71	.V	Q	.	.	.	.
9.583	280.5319	679.09	.V	Q	.	.	.	.
9.667	285.2325	682.53	.V	Q	.	.	.	.
9.750	289.9571	686.01	.V	Q	.	.	.	.
9.833	294.7060	689.54	.V	Q	.	.	.	.
9.917	299.4794	693.10	.V	Q	.	.	.	.
10.000	304.2778	696.73	.V	Q	.	.	.	.
10.083	309.1014	700.39	.V	Q	.	.	.	.
10.167	313.9507	704.11	.V	Q	.	.	.	.
10.250	318.8259	707.88	.V	Q	.	.	.	.
10.333	323.7275	711.71	.V	Q	.	.	.	.
10.417	328.6556	715.57	.V	Q	.	.	.	.
10.500	333.6110	719.52	.V	Q	.	.	.	.
10.583	338.5938	723.49	.V	Q	.	.	.	.
10.667	343.6044	727.55	.V	Q	.	.	.	.
10.750	348.6433	731.64	.V	Q	.	.	.	.
10.833	353.7109	735.83	.V	Q	.	.	.	.
10.917	358.8077	740.05	.V	Q	.	.	.	.
11.000	363.9341	744.35	.V	Q	.	.	.	.
11.083	369.0905	748.70	.V	Q	.	.	.	.
11.167	374.2774	753.14	.V	Q	.	.	.	.
11.250	379.4952	757.63	.V	Q	.	.	.	.
11.333	384.7446	762.21	.V	Q	.	.	.	.
11.417	390.0259	766.85	.V	Q	.	.	.	.
11.500	395.3398	771.58	.V	Q	.	.	.	.
11.583	400.6867	776.37	.V	Q	.	.	.	.
11.667	406.0673	781.26	.V	Q	.	.	.	.
11.750	411.4820	786.22	.V	Q	.	.	.	.
11.833	416.9316	791.28	.V	Q	.	.	.	.
11.917	422.4165	796.41	.V	Q	.	.	.	.
12.000	427.9376	801.66	.V	.Q	.	.	.	.
12.083	433.5035	808.17	.V	.Q	.	.	.	.
12.167	439.1233	816.00	.V	.Q	.	.	.	.
12.250	444.7975	823.90	.V	.Q	.	.	.	.
12.333	450.5269	831.90	.V	.Q	.	.	.	.
12.417	456.3119	839.98	.V	.Q	.	.	.	.
12.500	462.1534	848.19	.V	.Q	.	.	.	.
12.583	468.0519	856.46	.V	.Q	.	.	.	.
12.667	474.0083	864.87	.V	.Q	.	.	.	.
12.750	480.0272	873.94	.V	.Q	.	.	.	.
12.833	486.1141	883.81	.V	.Q	.	.	.	.
12.917	492.2696	893.77	.V	.Q	.	.	.	.
13.000	498.4945	903.87	.V	.Q	.	.	.	.
13.083	504.7897	914.06	.V	.Q	.	.	.	.
13.167	511.1605	925.03	.V	.Q	.	.	.	.
13.250	517.6216	938.16	.V	.Q	.	.	.	.
13.333	524.1752	951.58	.V	.Q	.	.	.	.
13.417	530.8266	965.79	.V	.Q	.	.	.	.
13.500	537.5864	981.53	.V	.Q	.	.	.	.
13.583	544.4587	997.86	.V	.Q	.	.	.	.

13.667	551.4565	1016.07	.	V	.	Q	.	.	.
13.750	558.5793	1034.24	.	V	.	Q	.	.	.
13.833	565.8256	1052.15	.	V	.	Q	.	.	.
13.917	573.1958	1070.16	.	V	.	Q	.	.	.
14.000	580.6924	1088.50	.	V	.	Q	.	.	.
14.083	588.3533	1112.37	.	V	.	Q	.	.	.
14.167	596.1780	1136.14	.	V	.	Q	.	.	.
14.250	604.1504	1157.58	.	V	.	Q	.	.	.
14.333	612.2711	1179.12	.	V	.	Q	.	.	.
14.417	620.5441	1201.24	.	V	.	Q	.	.	.
14.500	628.9849	1225.61	.	V	.	Q	.	.	.
14.583	637.6079	1252.07	.	V	.	Q	.	.	.
14.667	646.3991	1276.48	.	V	.	Q	.	.	.
14.750	655.3495	1299.60	.	V	.	Q	.	.	.
14.833	664.4642	1323.46	.	V	.	Q	.	.	.
14.917	673.7566	1349.25	.	V	.	Q	.	.	.
15.000	683.2409	1377.12	.	V	.	Q	.	.	.
15.083	692.9072	1403.55	.	.V	.	Q.	.	.	.
15.167	702.7925	1435.34	.	.V	.	Q.	.	.	.
15.250	712.8968	1467.14	.	.V	.	Q	.	.	.
15.333	723.1890	1494.43	.	.V	.	Q	.	.	.
15.417	733.6702	1521.87	.	.V	.	Q	.	.	.
15.500	744.3942	1557.12	.	.V	.	.Q	.	.	.
15.583	755.3417	1589.57	.	.V	.	.Q	.	.	.
15.667	766.5316	1624.78	.	.V	.	.Q	.	.	.
15.750	777.9586	1659.20	.	.V	.	.Q	.	.	.
15.833	789.6436	1696.65	.	.V	.	.Q	.	.	.
15.917	801.5703	1731.76	.	.V	.	.Q	.	.	.
16.000	813.7212	1764.32	.	.V	.	.Q	.	.	.
16.083	826.2700	1822.09	.	.V	.	.Q	.	.	.
16.167	839.1824	1874.88	.	.V	.	.Q	.	.	.
16.250	852.2946	1903.89	.	.V	.	.Q	.	.	.
16.333	865.6169	1934.40	.	.V	.	.Q	.	.	.
16.417	879.1807	1969.46	.	.V	.	.Q	.	.	.
16.500	892.9926	2005.49	.	.V	.	.Q	.	.	.
16.583	907.0220	2037.08	.	.V	.	.Q	.	.	.
16.667	921.2502	2065.94	.	.V	.	.Q	.	.	.
16.750	935.7316	2102.71	.	.V	.	.Q	.	.	.
16.833	950.4762	2140.91	.	.V	.	.Q	.	.	.
16.917	965.3822	2164.35	.	.V	.	.Q	.	.	.
17.000	980.4473	2187.45	.	.V	.	.Q	.	.	.
17.083	995.6794	2211.72	.	.V	.	.Q	.	.	.
17.167	1011.2081	2254.76	.	.V	.	.Q	.	.	.
17.250	1027.1881	2320.30	.	.V	.	.Q	.	.	.
17.333	1043.3065	2340.40	.	.V	.	.Q	.	.	.
17.417	1059.6071	2366.84	.	.V	.	.Q	.	.	.
17.500	1076.2489	2416.40	.	.V	.	.Q	.	.	.
17.583	1093.1398	2452.55	.	.V	.	.Q	.	.	.
17.667	1110.4276	2510.19	.	.V	.	.Q	.	.	.
17.750	1127.8459	2529.14	.	.V	.	.Q	.	.	.
17.833	1145.3740	2545.08	.	.V	.	.Q	.	.	.
17.917	1163.0505	2566.62	.	.V	.	.Q	.	.	.
18.000	1180.9135	2593.70	.	.V	.	.Q	.	.	.
18.083	1199.4482	2691.26	.	.V	.	.Q	.	.	.
18.167	1217.8778	2675.97	.	.V	.	.Q	.	.	.
18.250	1236.0701	2641.52	.	.V	.	.Q	.	.	.
18.333	1254.3364	2652.28	.	.V	.	.Q	.	.	.
18.417	1272.8362	2686.16	.	.V	.	.Q	.	.	.

18.500	1291.6835	2736.63	.	.	.	V	.	Q	.
18.583	1310.7959	2775.12	.	.	.	V	.	Q	.
18.667	1329.6429	2736.59	.	.	.	.V	.	Q	.
18.750	1348.2677	2704.31	.	.	.	.V	.	Q	.
18.833	1366.8715	2701.26	.	.	.	.V	.	Q	.
18.917	1385.7430	2740.15	.	.	.	.V	.	Q	.
19.000	1404.8734	2777.73	.	.	.	.V	.	Q	.
19.083	1423.7976	2747.80	.	.	.	.V	.	Q	.
19.167	1443.1667	2812.40	.	.	.	.V	.	Q	.
19.250	1462.1572	2757.41	.	.	.	.V	.	Q	.
19.333	1480.5570	2671.64	.	.	.	.V	.	Q	.
19.417	1499.1190	2695.20	.	.	.	.V	.	Q	.
19.500	1518.6509	2836.02	.	.	.	.V	.	Q.	.
19.583	1537.6647	2760.80	.	.	.	.V	.	Q	.
19.667	1556.6761	2760.47	.	.	.	.V	.	Q	.
19.750	1575.5286	2737.36	.	.	.	.V	.	Q	.
19.833	1594.7461	2790.39	.	.	.	.V	.	Q	.
19.917	1613.4150	2710.72	.	.	.	.V	.	Q	.
20.000	1631.4066	2612.38	.	.	.	.V	.	Q	.
20.083	1649.2406	2589.50	.	.	.	.V	.	Q	.
20.167	1666.8392	2555.31	.	.	.	.V	.	Q	.
20.250	1684.5930	2577.84	.	.	.	.V	.	Q	.
20.333	1702.5364	2605.38	.	.	.	.V	.	Q	.
20.417	1720.7701	2647.54	.	.	.	.V	.	Q	.
20.500	1738.5579	2582.78	.	.	.	.V	.	Q	.
20.583	1755.6266	2478.38	.	.	.	.V	.	Q	.
20.667	1772.3486	2428.04	.	.	.	.V	.	Q	.
20.750	1788.9200	2406.17	.	.	.	.V	.	Q	.
20.833	1805.6226	2425.21	.	.	.	.V	.	Q	.
20.917	1821.7869	2347.06	.	.	.	.V	.	Q	.
21.000	1837.6438	2302.42	.	.	.	.V	.	Q	.
21.083	1853.4432	2294.08	.	.	.	.V	.	Q	.
21.167	1868.9786	2255.75	.	.	.	.V	.	Q	.
21.250	1884.1215	2198.74	.	.	.	.Q	.	.	.
21.333	1898.7531	2124.50	.	.	.	.QV	.	.	.
21.417	1913.1564	2091.37	.	.	.	.Q	.	V	.
21.500	1927.3004	2053.71	.	.	.	.Q	.	V	.
21.583	1941.2408	2024.16	.	.	.	.Q	.	.V	.
21.667	1954.9896	1996.31	.	.	.	.Q	.	.V	.
21.750	1968.4700	1957.34	.	.	.	.Q	.	.V	.
21.833	1981.5762	1903.01	.	.	.	.Q	.	.V	.
21.917	1994.4186	1864.71	.	.	.	.Q	.	.V	.
22.000	2006.9740	1823.05	.	.	.	.Q	.	.V	.
22.083	2019.2992	1789.62	.	.	.	.Q	.	.V	.
22.167	2031.2953	1741.83	.	.	.	.Q	.	.V	.
22.250	2042.9929	1698.50	.	.	.	.Q	.	.V	.
22.333	2054.4639	1665.57	.	.	.	.Q	.	.V	.
22.417	2065.5750	1613.31	.	.	.	.Q	.	.V	.
22.500	2076.3779	1568.59	.	.	.	.Q	.	.V	.
22.583	2086.9705	1538.04	.	.	.	.Q	.	.V	.
22.667	2097.3572	1508.17	.	.	.	.Q	.	.V	.
22.750	2107.4944	1471.92	.	.	.	.Q	.	.V	.
22.833	2117.3970	1437.84	.	.	.	.Q	.	.V	.
22.917	2127.1101	1410.33	.	.	.	.Q	.	.V	.
23.000	2136.6418	1384.00	.	.	.	.Q	.	.V	.
23.083	2145.9578	1352.68	.	.	.	.Q	.	.V	.
23.167	2155.0508	1320.31	.	.	.	.Q	.	.V	.
23.250	2163.9683	1294.80	.	.	.	.Q	.	.V	.

23.333	2172.7261	1271.64	.	.	Q	.	.	V	.
23.417	2181.3250	1248.56	.	.	Q	.	.	V	.
23.500	2189.6870	1214.18	.	.	Q	.	.	V	.
23.583	2197.8250	1181.62	.	.	Q	.	.	V	.
23.667	2205.8208	1160.99	.	.	Q	.	.	V	.
23.750	2213.6807	1141.25	.	.	Q	.	.	V	.
23.833	2221.4082	1122.03	.	.	Q	.	.	V	.
23.917	2228.9980	1102.05	.	.	Q	.	.	V	.
24.000	2236.4509	1082.16	.	.	Q	.	.	V	.
24.083	2243.7195	1055.38	.	.	Q	.	.	V	.
24.167	2250.7683	1023.49	.	.	Q	.	.	V	.
24.250	2257.6887	1004.85	.	.	Q	.	.	V	.
24.333	2264.4858	986.93	.	.	Q	.	.	V	.
24.417	2271.1716	970.78	.	.	Q	.	.	V	.
24.500	2277.7546	955.84	.	.	Q	.	.	V	.
24.583	2284.2400	941.66	.	.	Q	.	.	V	.
24.667	2290.6252	927.15	.	.	Q	.	.	V	.
24.750	2296.9146	913.20	.	.	Q	.	.	V	.
24.833	2303.1069	899.12	.	.	Q	.	.	V	.
24.917	2309.1985	884.51	.	.	Q	.	.	V	.
25.000	2315.1826	868.91	.	.	Q	.	.	V	.
25.083	2320.9734	840.82	.	.	Q	.	.	V	.
25.167	2326.6035	817.50	.	.	Q	.	.	V	.
25.250	2332.1335	802.97	.	.	Q	.	.	V	.
25.333	2337.5679	789.07	.	.	Q	.	.	V	.
25.417	2342.8970	773.78	.	.	Q	.	.	V	.
25.500	2348.1184	758.14	.	.	Q	.	.	V	.
25.583	2353.2358	743.05	.	.	Q	.	.	V	.
25.667	2358.2419	726.88	.	.	Q	.	.	V	.
25.750	2363.1384	710.95	.	.	Q	.	.	V	.
25.833	2367.9270	695.31	.	.	Q	.	.	V	.
25.917	2372.6099	679.94	.	.	Q	.	.	V	.
26.000	2377.1838	664.15	.	.	Q	.	.	V	.
26.083	2381.6436	647.56	.	.	Q	.	.	V	.
26.167	2386.0012	632.73	.	.	Q	.	.	V	.
26.250	2390.2695	619.77	.	.	Q	.	.	V	.
26.333	2394.4485	606.77	.	.	Q	.	.	V	.
26.417	2398.5349	593.35	.	.	Q	.	.	V	.
26.500	2402.5271	579.66	.	.	Q	.	.	V	.
26.583	2406.4124	564.16	.	.	Q	.	.	V	.
26.667	2410.2036	550.49	.	.	Q	.	.	V	.
26.750	2413.9055	537.51	.	.	Q	.	.	V	.
26.833	2417.5244	525.47	.	.	Q	.	.	V	.
26.917	2421.0481	511.64	.	.	Q	.	.	V	.
27.000	2424.4731	497.32	.	.	Q	.	.	V	.
27.083	2427.8083	484.26	.	.	Q	.	.	V	.
27.167	2431.0410	469.38	.	.	Q	.	.	V	.
27.250	2434.1780	455.49	.	.	Q	.	.	V	.
27.333	2437.2378	444.30	.	.	Q	.	.	V	.
27.417	2440.2170	432.59	.	.	Q	.	.	V	.
27.500	2443.0857	416.54	.	.	Q	.	.	V	.
27.583	2445.8577	402.51	.	.	Q	.	.	V	.
27.667	2448.5305	388.10	.	.	Q	.	.	V	.
27.750	2451.1057	373.93	.	.	Q	.	.	V	.
27.833	2453.5696	357.76	.	.	Q	.	.	V	.
27.917	2455.9353	343.50	.	.	Q	.	.	V	.
28.000	2458.2205	331.82	.	.	Q	.	.	V	.
28.083	2460.4268	320.36	.	.	Q	.	.	V	.

28.167	2462.5583	309.51	.	Q	.	.	.	V	.
28.250	2464.6094	297.82	.	Q	.	.	.	V	.
28.333	2466.5732	285.16	.	Q	.	.	.	V	.
28.417	2468.4377	270.74	.	Q	.	.	.	V	.
28.500	2470.2102	257.35	.	Q	.	.	.	V	.
28.583	2471.9084	246.59	.	Q	.	.	.	V	.
28.667	2473.5388	236.73	.	Q	.	.	.	V	.
28.750	2475.1028	227.09	.	Q	.	.	.	V	.
28.833	2476.5916	216.18	.	Q	.	.	.	V	.
28.917	2478.0168	206.94	.	Q	.	.	.	V	.
29.000	2479.3821	198.22	.	Q	.	.	.	V	.
29.083	2480.6816	188.70	.	Q	.	.	.	V	.
29.167	2481.9009	177.03	.	Q	.	.	.	V	.
29.250	2483.0295	163.87	.	Q	.	.	.	V	.
29.333	2484.1116	157.13	.	Q	.	.	.	V	.
29.417	2485.1482	150.53	.	Q	.	.	.	V	.
29.500	2486.1394	143.91	.	Q	.	.	.	V	.
29.583	2487.0825	136.94	.	Q	.	.	.	V	.
29.667	2487.9763	129.77	.	Q	.	.	.	V	.
29.750	2488.8215	122.73	.	Q	.	.	.	V	.
29.833	2489.6213	116.12	.	Q	.	.	.	V	.
29.917	2490.3765	109.63	.	Q	.	.	.	V	.
30.000	2491.0894	103.50	.	Q	.	.	.	V	.
30.083	2491.7605	97.46	.	Q	.	.	.	V	.
30.167	2492.3945	92.06	.	Q	.	.	.	V	.
30.250	2492.9958	87.30	.	Q	.	.	.	V	.
30.333	2493.5647	82.59	.	Q	.	.	.	V	.
30.417	2494.1047	78.42	.	Q	.	.	.	V	.
30.500	2494.6187	74.63	.	Q	.	.	.	V	.
30.583	2495.1067	70.86	.	Q	.	.	.	V	.
30.667	2495.5691	67.14	.	Q	.	.	.	V	.
30.750	2496.0073	63.63	.	Q	.	.	.	V	.
30.833	2496.4221	60.24	.	Q	.	.	.	V	.
30.917	2496.8140	56.88	.	Q	.	.	.	V	.
31.000	2497.1829	53.55	.	Q	.	.	.	V	.
31.083	2497.5295	50.32	.	Q	.	.	.	V	.
31.167	2497.8560	47.39	.	Q	.	.	.	V	.
31.250	2498.1643	44.76	.	Q	.	.	.	V	.
31.333	2498.4546	42.14	.	Q	.	.	.	V	.
31.417	2498.7271	39.55	.	Q	.	.	.	V	.
31.500	2498.9844	37.37	.	Q	.	.	.	V	.
31.583	2499.2292	35.57	.	Q	.	.	.	V	.
31.667	2499.4619	33.78	.	Q	.	.	.	V	.
31.750	2499.6824	32.00	.	Q	.	.	.	V	.
31.833	2499.8906	30.25	.	Q	.	.	.	V	.
31.917	2500.0869	28.51	.	Q	.	.	.	V	.
32.000	2500.2715	26.78	.	Q	.	.	.	V	.
32.083	2500.4453	25.25	.	Q	.	.	.	V	.
32.167	2500.6113	24.11	.	Q	.	.	.	V	.
32.250	2500.7698	22.99	.	Q	.	.	.	V	.
32.333	2500.9204	21.89	.	Q	.	.	.	V	.
32.417	2501.0635	20.79	.	Q	.	.	.	V	.
32.500	2501.1992	19.70	.	Q	.	.	.	V	.
32.583	2501.3274	18.62	.	Q	.	.	.	V	.
32.667	2501.4482	17.55	.	Q	.	.	.	V	.
32.750	2501.5618	16.49	.	Q	.	.	.	V	.
32.833	2501.6682	15.44	.	Q	.	.	.	V	.
32.917	2501.7673	14.40	.	Q	.	.	.	V	.

33.000	2501.8594	13.37	Q	.	.	.	V.
33.083	2501.9470	12.74	Q	.	.	.	V.
33.167	2502.0325	12.42	Q	.	.	.	V.
33.250	2502.1157	12.10	Q	.	.	.	V.
33.333	2502.1968	11.78	Q	.	.	.	V.
33.417	2502.2756	11.47	Q	.	.	.	V.
33.500	2502.3525	11.16	Q	.	.	.	V.
33.583	2502.4272	10.85	Q	.	.	.	V.
33.667	2502.4998	10.55	Q	.	.	.	V.
33.750	2502.5703	10.25	Q	.	.	.	V.
33.833	2502.6389	9.95	Q	.	.	.	V.
33.917	2502.7053	9.65	Q	.	.	.	V.
34.000	2502.7698	9.36	Q	.	.	.	V.
34.083	2502.8323	9.07	Q	.	.	.	V.
34.167	2502.8928	8.79	Q	.	.	.	V.
34.250	2502.9514	8.50	Q	.	.	.	V.
34.333	2503.0081	8.22	Q	.	.	.	V.
34.417	2503.0627	7.95	Q	.	.	.	V.
34.500	2503.1155	7.66	Q	.	.	.	V.
34.583	2503.1665	7.39	Q	.	.	.	V.
34.667	2503.2156	7.12	Q	.	.	.	V.
34.750	2503.2629	6.86	Q	.	.	.	V.
34.833	2503.3083	6.59	Q	.	.	.	V.
34.917	2503.3518	6.32	Q	.	.	.	V.
35.000	2503.3936	6.06	Q	.	.	.	V.
35.083	2503.4336	5.80	Q	.	.	.	V.
35.167	2503.4717	5.55	Q	.	.	.	V.
35.250	2503.5081	5.29	Q	.	.	.	V.
35.333	2503.5427	5.04	Q	.	.	.	V.
35.417	2503.5757	4.79	Q	.	.	.	V.
35.500	2503.6069	4.54	Q	.	.	.	V.
35.583	2503.6365	4.30	Q	.	.	.	V.
35.667	2503.6643	4.05	Q	.	.	.	V.
35.750	2503.6907	3.81	Q	.	.	.	V.
35.833	2503.7153	3.57	Q	.	.	.	V.
35.917	2503.7383	3.33	Q	.	.	.	V.
36.000	2503.7595	3.10	Q	.	.	.	V.

-----  
TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
(Note: 100% of Peak Flow Rate estimate assumed to have  
an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
0%	2165.0
10%	1470.0
20%	1170.0
30%	750.0
40%	580.0
50%	465.0
60%	380.0
70%	315.0
80%	235.0
90%	160.0

=====

END OF FLOODSCx ROUTING ANALYSIS

\*\*\*\*\*

FLOOD ROUTING ANALYSIS
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)
(c) Copyright 1989-2013 Advanced Engineering Software (aes)
Ver. 20.0 Release Date: 06/01/2013 License ID 1237

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*
\* RMV PA-3 BODR 2022 - NODE 133C \*
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*
\* 10-YR EV JULY 2022 ROKAMOTO \*

FILE NAME: EV1033CS.DAT
TIME/DATE OF STUDY: 11:43 07/25/2022

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 133.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<

=====

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 61055.801 ACRES
BASEFLOW = 0.000 CFS/SQUARE-MILE
\*USER ENTERED "LAG" TIME = 2.727 HOURS
VALLEY (DEVELOPED) S-GRAPH SELECTED
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.285
LOW LOSS FRACTION = 0.734
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.31
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.62
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 0.86
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 1.58
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 2.33
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 4.07

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:
5-MINUTE FACTOR = 0.308
30-MINUTE FACTOR = 0.363
1-HOUR FACTOR = 0.408
3-HOUR FACTOR = 0.754
6-HOUR FACTOR = 0.891
24-HOUR FACTOR = 0.936

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 3.056

UNIT HYDROGRAPH DETERMINATION

Table with 3 columns: INTERVAL NUMBER, "S" GRAPH MEAN VALUES, UNIT HYDROGRAPH ORDINATES (CFS). Rows 1-48.



49	81.738	10537.229
50	83.059	9756.088
51	84.310	9233.469
52	85.477	8618.741
53	86.518	7686.680
54	87.458	6943.396
55	88.304	6246.082
56	89.024	5314.020
57	89.742	5303.373
58	90.413	4956.519
59	91.056	4750.051
60	91.700	4750.051
61	92.310	4509.388
62	92.892	4297.005
63	93.474	4296.949
64	94.022	4044.512
65	94.426	2982.654
66	94.814	2862.267
67	95.202	2867.055
68	95.590	2866.999
69	95.963	2756.131
70	96.226	1937.303
71	96.465	1769.763
72	96.705	1769.763
73	96.945	1772.129
74	97.185	1769.763
75	97.425	1769.763
76	97.664	1769.763
77	97.903	1762.664
78	98.035	972.229
79	98.092	424.709
80	98.149	420.033
81	98.206	422.400
82	98.264	424.709
83	98.321	420.033
84	98.377	420.033
85	98.435	427.132
86	98.492	419.977
87	98.549	420.033
88	98.607	427.132
89	98.664	424.709
90	98.721	417.667
91	98.779	429.498
92	98.835	415.301
93	98.894	429.441
94	98.950	420.033
95	99.008	424.766
96	99.065	420.033
97	99.122	420.033
98	99.179	420.033
99	99.236	420.033
100	99.292	420.033
101	99.349	420.033
102	99.406	420.033
103	99.463	420.033
104	99.520	420.033
105	99.577	420.033
106	99.634	420.033

107	99.691	420.033
108	99.747	420.033
109	99.804	420.033
110	99.861	420.033
111	99.918	420.033
112	99.975	420.033
113	100.000	184.328

-----  
TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 13741.3926  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 5665.3740  
-----

2 4 - 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 FIVE-MINUTE UNIT INTERVALS (CFS)

(Note: Time indicated is at END of Each Unit Intervals)

TIME (HRS)	VOLUME (AF)	Q (CFS)	0.	1900.0	3800.0	5700.0	7600.0
0.083	0.0138	2.00	Q	.	.	.	.
0.167	0.0551	6.00	Q	.	.	.	.
0.250	0.1240	10.01	Q	.	.	.	.
0.333	0.2206	14.03	Q	.	.	.	.
0.417	0.3450	18.06	Q	.	.	.	.
0.500	0.4978	22.19	Q	.	.	.	.
0.583	0.6892	27.78	Q	.	.	.	.
0.667	0.9229	33.94	Q	.	.	.	.
0.750	1.1992	40.12	Q	.	.	.	.
0.833	1.5228	46.98	Q	.	.	.	.
0.917	1.9201	57.69	Q	.	.	.	.
1.000	2.3982	69.42	Q	.	.	.	.
1.083	2.9756	83.84	Q	.	.	.	.
1.167	3.6673	100.43	Q	.	.	.	.
1.250	4.4874	119.08	Q	.	.	.	.
1.333	5.4307	136.96	Q	.	.	.	.
1.417	6.4973	154.87	Q	.	.	.	.
1.500	7.7261	178.43	Q	.	.	.	.
1.583	9.1052	200.24	VQ	.	.	.	.
1.667	10.6168	219.48	VQ	.	.	.	.
1.750	12.2714	240.25	VQ	.	.	.	.
1.833	14.1013	265.71	VQ	.	.	.	.
1.917	16.1016	290.44	VQ	.	.	.	.
2.000	18.2455	311.30	VQ	.	.	.	.
2.083	20.5471	334.19	VQ	.	.	.	.
2.167	23.0333	360.99	VQ	.	.	.	.
2.250	25.7189	389.95	V Q	.	.	.	.
2.333	28.6126	420.17	V Q	.	.	.	.
2.417	31.6575	442.11	V Q	.	.	.	.
2.500	34.9338	475.72	V Q	.	.	.	.
2.583	38.4371	508.67	V Q	.	.	.	.
2.667	42.1694	541.93	V Q	.	.	.	.
2.750	46.1661	580.32	V Q	.	.	.	.
2.833	50.3809	612.00	V Q	.	.	.	.
2.917	54.7822	639.07	V Q	.	.	.	.
3.000	59.3638	665.24	V Q	.	.	.	.
3.083	64.1530	695.39	V Q	.	.	.	.
3.167	69.1923	731.70	V Q	.	.	.	.
3.250	74.4585	764.65	V Q	.	.	.	.
3.333	79.9094	791.48	V Q	.	.	.	.
3.417	85.5439	818.13	V Q	.	.	.	.
3.500	91.3707	846.05	V Q	.	.	.	.
3.583	97.3614	869.84	V Q	.	.	.	.
3.667	103.5252	894.99	V Q	.	.	.	.
3.750	109.8483	918.12	V Q	.	.	.	.
3.833	116.3013	936.97	V Q	.	.	.	.
3.917	122.8821	955.53	V Q	.	.	.	.

4.000	129.5930	974.42	V Q	.	.	.	.
4.083	136.4382	993.92	V Q	.	.	.	.
4.167	143.4100	1012.30	.V Q	.	.	.	.
4.250	150.5032	1029.94	.V Q	.	.	.	.
4.333	157.7119	1046.71	.V Q	.	.	.	.
4.417	165.0266	1062.09	.V Q	.	.	.	.
4.500	172.4398	1076.40	.V Q	.	.	.	.
4.583	179.9446	1089.69	.V Q	.	.	.	.
4.667	187.5314	1101.61	.V Q	.	.	.	.
4.750	195.2005	1113.55	.V Q	.	.	.	.
4.833	202.9487	1125.04	.V Q	.	.	.	.
4.917	210.7741	1136.24	.V Q	.	.	.	.
5.000	218.6772	1147.53	.V Q	.	.	.	.
5.083	226.6557	1158.48	.V Q	.	.	.	.
5.167	234.7079	1169.18	.V Q	.	.	.	.
5.250	242.8341	1179.93	.V Q	.	.	.	.
5.333	251.0322	1190.36	.V Q	.	.	.	.
5.417	259.2910	1199.18	.V Q	.	.	.	.
5.500	267.6099	1207.90	.V Q	.	.	.	.
5.583	275.9890	1216.66	.V Q	.	.	.	.
5.667	284.4291	1225.49	.V Q	.	.	.	.
5.750	292.9290	1234.19	.V Q	.	.	.	.
5.833	301.4807	1241.71	.V Q	.	.	.	.
5.917	310.0826	1248.99	.V Q	.	.	.	.
6.000	318.7352	1256.36	.V Q	.	.	.	.
6.083	327.4388	1263.76	.V Q	.	.	.	.
6.167	336.1939	1271.24	.V Q	.	.	.	.
6.250	345.0007	1278.75	.V Q	.	.	.	.
6.333	353.8598	1286.34	.V Q	.	.	.	.
6.417	362.7714	1293.97	.V Q	.	.	.	.
6.500	371.7277	1300.44	.V Q	.	.	.	.
6.583	380.7229	1306.11	.V Q	.	.	.	.
6.667	389.7577	1311.85	.V Q	.	.	.	.
6.750	398.8323	1317.63	.V Q	.	.	.	.
6.833	407.9473	1323.50	.V Q	.	.	.	.
6.917	417.1029	1329.39	.V Q	.	.	.	.
7.000	426.2997	1335.37	.V Q	.	.	.	.
7.083	435.5380	1341.40	.V Q	.	.	.	.
7.167	444.8183	1347.50	.V Q	.	.	.	.
7.250	454.1410	1353.65	.V Q	.	.	.	.
7.333	463.5066	1359.89	.V Q	.	.	.	.
7.417	472.9156	1366.18	.V Q	.	.	.	.
7.500	482.3684	1372.55	.V Q	.	.	.	.
7.583	491.8655	1378.98	.V Q	.	.	.	.
7.667	501.4074	1385.48	.V Q	.	.	.	.
7.750	510.9946	1392.06	.V Q	.	.	.	.
7.833	520.6276	1398.71	.V Q	.	.	.	.
7.917	530.3068	1405.43	.V Q	.	.	.	.
8.000	540.0330	1412.24	.V Q	.	.	.	.
8.083	549.8064	1419.10	.V Q	.	.	.	.
8.167	559.6278	1426.07	.V Q	.	.	.	.
8.250	569.4976	1433.10	.V Q	.	.	.	.
8.333	579.4166	1440.23	.V Q	.	.	.	.
8.417	589.3851	1447.42	.V Q	.	.	.	.
8.500	599.4039	1454.73	.V Q	.	.	.	.
8.583	609.4734	1462.10	.V Q	.	.	.	.
8.667	619.5945	1469.59	.V Q	.	.	.	.
8.750	629.7676	1477.14	.V Q	.	.	.	.

8.833	639.9935	1484.81	.	V	Q	.	.	.	.
8.917	650.2728	1492.55	.	V	Q	.	.	.	.
9.000	660.6063	1500.43	.	V	Q	.	.	.	.
9.083	670.9946	1508.37	.	V	Q	.	.	.	.
9.167	681.4384	1516.45	.	V	Q	.	.	.	.
9.250	691.9384	1524.60	.	V	Q	.	.	.	.
9.333	702.4955	1532.89	.	V	Q	.	.	.	.
9.417	713.1078	1540.90	.	V	Q	.	.	.	.
9.500	723.7742	1548.76	.	V	Q	.	.	.	.
9.583	734.4954	1556.71	.	V	Q	.	.	.	.
9.667	745.2723	1564.81	.	V	Q	.	.	.	.
9.750	756.1056	1573.00	.	V	Q	.	.	.	.
9.833	766.9963	1581.34	.	V	Q	.	.	.	.
9.917	777.9452	1589.77	.	V	Q	.	.	.	.
10.000	788.9533	1598.38	.	V	Q	.	.	.	.
10.083	800.0213	1607.07	.	V	Q	.	.	.	.
10.167	811.1504	1615.94	.	V	Q	.	.	.	.
10.250	822.3413	1624.92	.	V	Q	.	.	.	.
10.333	833.5953	1634.08	.	V	Q	.	.	.	.
10.417	844.9130	1643.34	.	V	Q	.	.	.	.
10.500	856.2960	1652.80	.	V	Q	.	.	.	.
10.583	867.7448	1662.37	.	V	Q	.	.	.	.
10.667	879.2610	1672.15	.	V	Q	.	.	.	.
10.750	890.8453	1682.05	.	V	Q	.	.	.	.
10.833	902.4993	1692.16	.	V	Q	.	.	.	.
10.917	914.2239	1702.40	.	V	Q	.	.	.	.
11.000	926.0205	1712.87	.	V	Q	.	.	.	.
11.083	937.8902	1723.48	.	V	Q	.	.	.	.
11.167	949.8346	1734.32	.	V	Q	.	.	.	.
11.250	961.8547	1745.32	.	V	Q	.	.	.	.
11.333	973.9523	1756.57	.	V	Q	.	.	.	.
11.417	986.1285	1767.98	.	V	Q	.	.	.	.
11.500	998.3851	1779.65	.	V	Q	.	.	.	.
11.583	1010.7233	1791.50	.	V	Q	.	.	.	.
11.667	1023.1450	1803.63	.	V	Q	.	.	.	.
11.750	1035.6515	1815.95	.	V	Q	.	.	.	.
11.833	1048.2449	1828.57	.	V	Q	.	.	.	.
11.917	1060.9266	1841.39	.	V	Q	.	.	.	.
12.000	1073.6989	1854.53	.	V	Q	.	.	.	.
12.083	1086.5874	1871.42	.	V	Q	.	.	.	.
12.167	1099.6190	1892.18	.	V	Q	.	.	.	.
12.250	1112.7949	1913.15	.	V	Q	.	.	.	.
12.333	1126.1174	1934.43	.	V	Q	.	.	.	.
12.417	1139.5881	1955.94	.	V	Q	.	.	.	.
12.500	1153.2102	1977.93	.	V	Q	.	.	.	.
12.583	1167.0031	2002.73	.	V	Q	.	.	.	.
12.667	1180.9760	2028.87	.	V	Q	.	.	.	.
12.750	1195.1305	2055.24	.	V	Q	.	.	.	.
12.833	1209.4774	2083.17	.	V	Q	.	.	.	.
12.917	1224.0651	2118.13	.	V	.Q	.	.	.	.
13.000	1238.9083	2155.24	.	V	.Q	.	.	.	.
13.083	1254.0409	2197.25	.	V	.Q	.	.	.	.
13.167	1269.4915	2243.41	.	V	.Q	.	.	.	.
13.250	1285.2858	2293.34	.	V	.Q	.	.	.	.
13.333	1301.4165	2342.18	.	V	.Q	.	.	.	.
13.417	1317.8844	2391.15	.	V	.Q	.	.	.	.
13.500	1334.7607	2450.44	.	V	.Q	.	.	.	.
13.583	1352.0245	2506.70	.	V	.Q	.	.	.	.

13.667	1369.6461	2558.66	.	V.	Q	.	.	.	.
13.750	1387.6451	2613.45	.	V.	Q	.	.	.	.
13.833	1406.0809	2676.89	.	V.	Q	.	.	.	.
13.917	1424.9454	2739.13	.	V	Q	.	.	.	.
14.000	1444.1931	2794.76	.	V	Q	.	.	.	.
14.083	1463.9033	2861.92	.	V	Q	.	.	.	.
14.167	1484.1782	2943.92	.	V	Q	.	.	.	.
14.250	1505.0408	3029.24	.	V	Q	.	.	.	.
14.333	1526.5039	3116.45	.	V	Q	.	.	.	.
14.417	1548.4628	3188.43	.	V	Q	.	.	.	.
14.500	1571.0599	3281.11	.	.V	Q	.	.	.	.
14.583	1594.3223	3377.69	.	.V	Q	.	.	.	.
14.667	1618.2635	3476.27	.	.V	Q	.	.	.	.
14.750	1642.9398	3583.00	.	.V	Q	.	.	.	.
14.833	1668.2808	3679.50	.	.V	Q	.	.	.	.
14.917	1694.3247	3781.58	.	.V	Q	.	.	.	.
15.000	1721.0779	3884.56	.	.V	Q	.	.	.	.
15.083	1748.6455	4002.82	.	.V	.Q	.	.	.	.
15.167	1777.1461	4138.29	.	.V	.Q	.	.	.	.
15.250	1806.5704	4272.41	.	.V	.Q	.	.	.	.
15.333	1836.8016	4389.58	.	.V	.Q	.	.	.	.
15.417	1867.7781	4497.77	.	.V	.Q	.	.	.	.
15.500	1899.6156	4622.81	.	.V	.Q	.	.	.	.
15.583	1932.1967	4730.78	.	.V	.Q	.	.	.	.
15.667	1965.4528	4828.78	.	.V	.Q	.	.	.	.
15.750	1999.3712	4924.95	.	.V	.Q	.	.	.	.
15.833	2033.9993	5027.99	.	.V	.Q	.	.	.	.
15.917	2069.2822	5123.09	.	.V	.Q	.	.	.	.
16.000	2105.1594	5209.38	.	.V	.Q	.	.	.	.
16.083	2142.2544	5386.20	.	.V	.Q	.	.	.	.
16.167	2180.5566	5561.48	.	.V	.Q	.	.	.	.
16.250	2219.4165	5642.44	.	.V	.Q	.	.	.	.
16.333	2258.8096	5719.87	.	.V	.Q	.	.	.	.
16.417	2298.4749	5759.40	.	.V	.Q	.	.	.	.
16.500	2338.7673	5850.46	.	.V	.Q	.	.	.	.
16.583	2379.9893	5985.43	.	.V	.Q	.	.	.	.
16.667	2421.8569	6079.19	.	.V	.Q	.	.	.	.
16.750	2464.3896	6175.74	.	.V	.Q	.	.	.	.
16.833	2507.5659	6269.20	.	.V	.Q	.	.	.	.
16.917	2552.1743	6477.12	.	.V	.Q	.	.	.	.
17.000	2597.4712	6577.10	.	.V	.Q	.	.	.	.
17.083	2643.9563	6749.63	.	.V	.Q	.	.	.	.
17.167	2691.4346	6893.85	.	.V	.Q	.	.	.	.
17.250	2739.7737	7018.83	.	.V	.Q	.	.	.	.
17.333	2788.1208	7020.00	.	.V	.Q	.	.	.	.
17.417	2836.8254	7071.92	.	.V	.Q	.	.	.	.
17.500	2887.2749	7325.26	.	.V	.Q	.	.	.	.
17.583	2937.1550	7242.59	.	.V	.Q	.	.	.	.
17.667	2986.4209	7153.41	.	.V	.Q	.	.	.	.
17.750	3036.4575	7265.33	.	.V	.Q	.	.	.	.
17.833	3087.7373	7445.82	.	.V	.Q	.	.	.	.
17.917	3138.4949	7370.01	.	.V	.Q	.	.	.	.
18.000	3187.9829	7185.67	.	.V	.Q	.	.	.	.
18.083	3237.9395	7253.69	.	.V	.Q	.	.	.	.
18.167	3288.9065	7400.41	.	.V	.Q	.	.	.	.
18.250	3340.3162	7464.67	.	.V	.Q	.	.	.	.
18.333	3391.6616	7455.36	.	.V	.Q	.	.	.	.
18.417	3440.5920	7104.71	.	.V	.Q	.	.	.	.

18.500	3492.4404	7528.37	.	.	.	V	.	Q.
18.583	3543.7385	7448.50	.	.	.	V	.	Q.
18.667	3595.0574	7451.48	.	.	.	V	.	Q.
18.750	3647.2427	7577.30	.	.	.	V	.	Q.
18.833	3696.8323	7200.40	.	.	.	V	.	Q.
18.917	3744.7192	6953.19	.	.	.	V	.	Q.
19.000	3792.3108	6910.29	.	.	.	V	.	Q.
19.083	3841.1492	7091.35	.	.	.	V	.	Q.
19.167	3891.3899	7294.94	.	.	.	V	.	Q.
19.250	3940.0029	7058.60	.	.	.	V	.	Q.
19.333	3986.2644	6717.15	.	.	.	V	.	Q.
19.417	4032.1724	6665.84	.	.	.	V	.	Q.
19.500	4077.7766	6621.74	.	.	.	V	.	Q.
19.583	4121.6729	6373.71	.	.	.	V	.	Q.
19.667	4165.2847	6332.43	.	.	.	V	.	Q.
19.750	4207.3955	6114.53	.	.	.	V	.	Q.
19.833	4247.5874	5835.89	.	.	.	VQ	.	.
19.917	4287.1528	5744.93	.	.	.	Q	.	.
20.000	4326.3765	5695.28	.	.	.	QV	.	.
20.083	4365.1387	5628.24	.	.	.	QV	.	.
20.167	4402.6265	5443.23	.	.	.	Q.V	.	.
20.250	4438.9692	5276.95	.	.	.	Q.V	.	.
20.333	4474.2314	5120.04	.	.	.	Q.V	.	.
20.417	4508.3799	4958.34	.	.	.	Q.V	.	.
20.500	4541.2695	4775.57	.	.	.	Q.V	.	.
20.583	4572.9907	4605.95	.	.	.	Q.V	.	.
20.667	4603.4287	4419.63	.	.	.	Q.V	.	.
20.750	4632.9834	4291.31	.	.	.	Q.V	.	.
20.833	4661.6846	4167.38	.	.	.	Q.V	.	.
20.917	4689.6450	4059.83	.	.	.	Q.V	.	.
21.000	4716.9199	3960.29	.	.	.	Q.V	.	.
21.083	4743.3350	3835.45	.	.	.	Q.V	.	.
21.167	4768.8677	3707.36	.	.	.	Q.V	.	.
21.250	4793.6392	3596.83	.	.	.	Q.V	.	.
21.333	4817.5884	3477.45	.	.	.	Q.V	.	.
21.417	4840.4170	3314.73	.	.	.	Q.V	.	.
21.500	4862.5747	3217.28	.	.	.	Q.V	.	.
21.583	4884.1958	3139.41	.	.	.	Q.V	.	.
21.667	4905.2856	3062.27	.	.	.	Q.V	.	.
21.750	4925.7637	2973.41	.	.	.	Q.V	.	.
21.833	4945.4214	2854.30	.	.	.	Q.V	.	.
21.917	4964.5923	2783.59	.	.	.	Q.V	.	.
22.000	4983.3457	2723.03	.	.	.	Q.V	.	.
22.083	5001.6826	2662.51	.	.	.	Q.V	.	.
22.167	5019.6064	2602.51	.	.	.	Q.V	.	.
22.250	5037.1182	2542.69	.	.	.	Q.V	.	.
22.333	5054.2207	2483.32	.	.	.	Q.V	.	.
22.417	5070.9272	2425.82	.	.	.	Q.V	.	.
22.500	5086.9131	2321.12	.	.	.	Q.V	.	.
22.583	5102.3320	2238.80	.	.	.	Q.V	.	.
22.667	5117.4536	2195.66	.	.	.	Q.V	.	.
22.750	5132.2915	2154.47	.	.	.	Q.V	.	.
22.833	5146.8716	2116.99	.	.	.	Q.V	.	.
22.917	5161.1865	2078.52	.	.	.	Q.V	.	.
23.000	5175.2358	2039.99	.	.	.	Q.V	.	.
23.083	5189.0244	2002.10	.	.	.	Q.V	.	.
23.167	5202.5488	1963.73	.	.	.	Q.V	.	.
23.250	5215.8105	1925.63	.	.	.	Q.V	.	.

23.333	5228.8164	1888.47	.	.	.	Q.	.	V
23.417	5241.5718	1852.10	.	.	.	Q.	.	V
23.500	5254.1030	1819.55	.	.	.	Q.	.	V
23.583	5266.4434	1791.83	.	.	.	Q.	.	V
23.667	5278.5864	1763.20	.	.	.	Q.	.	V
23.750	5290.5503	1737.18	.	.	.	Q.	.	V
23.833	5302.3438	1712.43	.	.	.	Q.	.	V
23.917	5313.9805	1689.65	.	.	.	Q.	.	V
24.000	5325.4595	1666.74	.	.	.	Q.	.	V
24.083	5336.7725	1642.67	.	.	.	Q.	.	V
24.167	5347.9097	1617.12	.	.	.	Q.	.	V
24.250	5358.8745	1592.10	.	.	.	Q.	.	V
24.333	5369.6699	1567.51	.	.	.	Q.	.	V
24.417	5380.2998	1543.44	.	.	.	Q.	.	V
24.500	5390.7817	1521.98	.	.	.	Q.	.	V
24.583	5401.1191	1500.99	.	.	.	Q.	.	V
24.667	5411.3125	1480.06	.	.	.	Q.	.	V
24.750	5421.3706	1460.44	.	.	.	Q.	.	V
24.833	5431.2964	1441.26	.	.	.	Q.	.	V
24.917	5441.0649	1418.43	.	.	.	Q.	.	V
25.000	5450.6709	1394.81	.	.	.	Q.	.	V
25.083	5460.0996	1369.01	.	.	.	Q.	.	V
25.167	5469.3384	1341.46	.	.	.	Q.	.	V
25.250	5478.3716	1311.63	.	.	.	Q.	.	V
25.333	5487.1943	1281.04	.	.	.	Q.	.	V
25.417	5495.7041	1235.62	.	.	.	Q.	.	V
25.500	5503.8984	1189.78	.	.	.	Q.	.	V
25.583	5511.8765	1158.44	.	.	.	Q.	.	V
25.667	5519.6606	1130.28	.	.	.	Q.	.	V
25.750	5527.2378	1100.20	.	.	.	Q.	.	V
25.833	5534.5723	1064.93	.	.	.	Q.	.	V
25.917	5541.6689	1030.44	.	.	.	Q.	.	V
26.000	5548.5557	999.94	.	.	.	Q.	.	V
26.083	5555.2188	967.50	.	.	.	Q.	.	V
26.167	5561.6323	931.28	.	.	.	Q.	.	V
26.250	5567.7827	893.07	.	.	.	Q.	.	V
26.333	5573.6631	853.82	.	.	.	Q.	.	V
26.417	5579.3413	824.48	.	.	.	Q.	.	V
26.500	5584.7471	784.90	.	.	.	Q.	.	V
26.583	5589.8877	746.40	.	.	.	Q.	.	V
26.667	5594.7642	708.03	.	.	.	Q.	.	V
26.750	5599.3438	664.93	.	.	.	Q.	.	V
26.833	5603.6758	629.00	.	.	.	Q.	.	V
26.917	5607.7944	598.02	.	.	.	Q.	.	V
27.000	5611.7085	568.31	.	.	.	Q.	.	V
27.083	5615.3926	534.92	.	.	.	Q.	.	V
27.167	5618.8066	495.75	.	.	.	Q.	.	V
27.250	5621.9771	460.31	.	.	.	Q.	.	V
27.333	5624.9478	431.36	.	.	.	Q.	.	V
27.417	5627.7271	403.53	.	.	.	Q.	.	V
27.500	5630.3115	375.26	.	.	.	Q.	.	V
27.583	5632.7314	351.40	.	.	.	Q.	.	V
27.667	5634.9800	326.47	.	.	.	Q.	.	V
27.750	5637.0723	303.83	.	.	.	Q.	.	V
27.833	5639.0400	285.73	.	.	.	Q.	.	V
27.917	5640.8867	268.11	.	.	.	Q.	.	V
28.000	5642.6113	250.40	.	.	.	Q.	.	V
28.083	5644.2109	232.27	.	.	.	Q.	.	V

28.167	5645.6948	215.49	.Q	.	.	.	V.
28.250	5647.0698	199.63	.Q	.	.	.	V.
28.333	5648.3428	184.85	Q	.	.	.	V.
28.417	5649.5244	171.61	Q	.	.	.	V.
28.500	5650.6235	159.62	Q	.	.	.	V.
28.583	5651.6484	148.80	Q	.	.	.	V.
28.667	5652.6094	139.49	Q	.	.	.	V.
28.750	5653.5068	130.28	Q	.	.	.	V.
28.833	5654.3447	121.67	Q	.	.	.	V.
28.917	5655.1260	113.45	Q	.	.	.	V.
29.000	5655.8511	105.28	Q	.	.	.	V.
29.083	5656.5229	97.55	Q	.	.	.	V.
29.167	5657.1440	90.20	Q	.	.	.	V.
29.250	5657.7148	82.91	Q	.	.	.	V.
29.333	5658.2388	76.06	Q	.	.	.	V.
29.417	5658.7271	70.90	Q	.	.	.	V.
29.500	5659.1812	65.96	Q	.	.	.	V.
29.583	5659.6016	61.05	Q	.	.	.	V.
29.667	5659.9883	56.18	Q	.	.	.	V.
29.750	5660.3433	51.51	Q	.	.	.	V.
29.833	5660.6748	48.14	Q	.	.	.	V.
29.917	5660.9854	45.06	Q	.	.	.	V.
30.000	5661.2744	42.00	Q	.	.	.	V.
30.083	5661.5425	38.96	Q	.	.	.	V.
30.167	5661.7900	35.94	Q	.	.	.	V.
30.250	5662.0171	32.95	Q	.	.	.	V.
30.333	5662.2236	29.97	Q	.	.	.	V.
30.417	5662.4097	27.03	Q	.	.	.	V.
30.500	5662.5840	25.33	Q	.	.	.	V.
30.583	5662.7524	24.49	Q	.	.	.	V.
30.667	5662.9155	23.66	Q	.	.	.	V.
30.750	5663.0728	22.84	Q	.	.	.	V.
30.833	5663.2246	22.02	Q	.	.	.	V.
30.917	5663.3706	21.22	Q	.	.	.	V.
31.000	5663.5112	20.42	Q	.	.	.	V.
31.083	5663.6465	19.62	Q	.	.	.	V.
31.167	5663.7764	18.84	Q	.	.	.	V.
31.250	5663.9009	18.06	Q	.	.	.	V.
31.333	5664.0200	17.27	Q	.	.	.	V.
31.417	5664.1338	16.50	Q	.	.	.	V.
31.500	5664.2422	15.75	Q	.	.	.	V.
31.583	5664.3452	14.98	Q	.	.	.	V.
31.667	5664.4434	14.24	Q	.	.	.	V.
31.750	5664.5361	13.48	Q	.	.	.	V.
31.833	5664.6240	12.74	Q	.	.	.	V.
31.917	5664.7065	12.00	Q	.	.	.	V.
32.000	5664.7842	11.28	Q	.	.	.	V.
32.083	5664.8569	10.55	Q	.	.	.	V.
32.167	5664.9248	9.84	Q	.	.	.	V.
32.250	5664.9878	9.13	Q	.	.	.	V.
32.333	5665.0459	8.42	Q	.	.	.	V.
32.417	5665.0991	7.72	Q	.	.	.	V.
32.500	5665.1475	7.02	Q	.	.	.	V.
32.583	5665.1909	6.33	Q	.	.	.	V.
32.667	5665.2300	5.64	Q	.	.	.	V.
32.750	5665.2642	4.96	Q	.	.	.	V.
32.833	5665.2935	4.28	Q	.	.	.	V.
32.917	5665.3184	3.60	Q	.	.	.	V.

33.000	5665.3384	2.93	Q	.	.	.	V.
33.083	5665.3540	2.26	Q	.	.	.	V.
33.167	5665.3652	1.60	Q	.	.	.	V.
33.250	5665.3716	0.94	Q	.	.	.	V.
33.333	5665.3735	0.29	Q	.	.	.	V.

-----  
TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
(Note: 100% of Peak Flow Rate estimate assumed to have  
an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
=====	=====
0%	2000.0
10%	1400.0
20%	925.0
30%	560.0
40%	445.0
50%	370.0
60%	310.0
70%	250.0
80%	190.0
90%	130.0
=====	=====

END OF FLOODSCx ROUTING ANALYSIS

\*\*\*\*\*

FLOOD ROUTING ANALYSIS
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)
(c) Copyright 1989-2013 Advanced Engineering Software (aes)
Ver. 20.0 Release Date: 06/01/2013 License ID 1237

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*
\* RMV PA-3 ROMP AMENDMENT 2022 - NODE 133T \*
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*
\* 10-YR EV OCT 2022 ROKAMOTO \*

FILE NAME: EV1033TS.DAT
TIME/DATE OF STUDY: 10:47 10/25/2022

\*\*\*\*\*

FLOW PROCESS FROM NODE 13010.00 TO NODE 133.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<

=====

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 6638.200 ACRES
BASEFLOW = 0.000 CFS/SQUARE-MILE
\*USER ENTERED "LAG" TIME = 1.329 HOURS
VALLEY (DEVELOPED) S-GRAPH SELECTED
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.239
LOW LOSS FRACTION = 0.699
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.26
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.59
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 0.78
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 1.31
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 1.81
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 3.03

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:
5-MINUTE FACTOR = 0.744
30-MINUTE FACTOR = 0.744
1-HOUR FACTOR = 0.744
3-HOUR FACTOR = 0.959
6-HOUR FACTOR = 0.978
24-HOUR FACTOR = 0.986

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 6.270

UNIT HYDROGRAPH DETERMINATION

Table with 3 columns: INTERVAL NUMBER, "S" GRAPH MEAN VALUES, UNIT HYDROGRAPH ORDINATES (CFS). Rows 1-48.

49	99.296	94.269
50	99.413	94.269
51	99.530	94.269
52	99.648	94.269
53	99.765	94.269
54	99.883	94.269
55	100.000	94.152

-----  
TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 1043.2162  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 609.9843  
-----

=====  
2 4 - 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 FIVE-MINUTE UNIT INTERVALS (CFS)  
(Note: Time indicated is at END of Each Unit Intervals)

TIME (HRS)	VOLUME (AF)	Q (CFS)	0.	500.0	1000.0	1500.0	2000.0
0.083	0.0023	0.34	Q	.	.	.	.
0.167	0.0094	1.02	Q	.	.	.	.
0.250	0.0211	1.71	Q	.	.	.	.
0.333	0.0393	2.64	Q	.	.	.	.
0.417	0.0651	3.74	Q	.	.	.	.
0.500	0.1032	5.53	Q	.	.	.	.
0.583	0.1587	8.06	Q	.	.	.	.
0.667	0.2352	11.11	Q	.	.	.	.
0.750	0.3352	14.52	Q	.	.	.	.
0.833	0.4593	18.02	Q	.	.	.	.
0.917	0.6101	21.89	Q	.	.	.	.
1.000	0.7870	25.69	Q	.	.	.	.
1.083	0.9929	29.90	Q	.	.	.	.
1.167	1.2316	34.65	Q	.	.	.	.
1.250	1.5035	39.48	Q	.	.	.	.
1.333	1.8147	45.19	Q	.	.	.	.
1.417	2.1635	50.65	VQ	.	.	.	.
1.500	2.5431	55.12	VQ	.	.	.	.
1.583	2.9609	60.66	VQ	.	.	.	.
1.667	3.4106	65.30	VQ	.	.	.	.
1.750	3.8898	69.58	VQ	.	.	.	.
1.833	4.3956	73.45	VQ	.	.	.	.
1.917	4.9227	76.53	VQ	.	.	.	.
2.000	5.4701	79.49	VQ	.	.	.	.
2.083	6.0370	82.31	VQ	.	.	.	.
2.167	6.6209	84.78	VQ	.	.	.	.
2.250	7.2190	86.84	VQ	.	.	.	.
2.333	7.8289	88.56	VQ	.	.	.	.
2.417	8.4498	90.15	VQ	.	.	.	.
2.500	9.0812	91.68	VQ	.	.	.	.
2.583	9.7227	93.14	VQ	.	.	.	.
2.667	10.3726	94.38	VQ	.	.	.	.
2.750	11.0301	95.47	VQ	.	.	.	.
2.833	11.6948	96.51	VQ	.	.	.	.
2.917	12.3653	97.35	VQ	.	.	.	.
3.000	13.0413	98.17	VQ	.	.	.	.
3.083	13.7231	98.99	VQ	.	.	.	.
3.167	14.4101	99.77	VQ	.	.	.	.
3.250	15.1008	100.28	V Q	.	.	.	.
3.333	15.7948	100.76	.VQ	.	.	.	.
3.417	16.4921	101.25	.VQ	.	.	.	.
3.500	17.1928	101.74	.VQ	.	.	.	.
3.583	17.8968	102.23	.VQ	.	.	.	.
3.667	18.6043	102.73	.VQ	.	.	.	.
3.750	19.3153	103.23	.VQ	.	.	.	.
3.833	20.0297	103.73	.VQ	.	.	.	.
3.917	20.7476	104.25	.VQ	.	.	.	.

4.000	21.4691	104.76	.VQ	.	.	.	.
4.083	22.1942	105.28	.VQ	.	.	.	.
4.167	22.9228	105.80	.VQ	.	.	.	.
4.250	23.6551	106.33	.VQ	.	.	.	.
4.333	24.3911	106.86	.VQ	.	.	.	.
4.417	25.1307	107.40	.VQ	.	.	.	.
4.500	25.8741	107.94	.VQ	.	.	.	.
4.583	26.6213	108.49	.VQ	.	.	.	.
4.667	27.3714	108.93	.VQ	.	.	.	.
4.750	28.1247	109.37	.VQ	.	.	.	.
4.833	28.8811	109.82	.VQ	.	.	.	.
4.917	29.6405	110.28	.VQ	.	.	.	.
5.000	30.4032	110.74	.VQ	.	.	.	.
5.083	31.1690	111.20	.Q	.	.	.	.
5.167	31.9381	111.67	.Q	.	.	.	.
5.250	32.7105	112.15	.Q	.	.	.	.
5.333	33.4862	112.63	.Q	.	.	.	.
5.417	34.2652	113.11	.Q	.	.	.	.
5.500	35.0476	113.61	.Q	.	.	.	.
5.583	35.8334	114.10	.Q	.	.	.	.
5.667	36.6227	114.61	.Q	.	.	.	.
5.750	37.4155	115.12	.Q	.	.	.	.
5.833	38.2119	115.63	.Q	.	.	.	.
5.917	39.0118	116.15	.Q	.	.	.	.
6.000	39.8154	116.68	.Q	.	.	.	.
6.083	40.6226	117.21	.Q	.	.	.	.
6.167	41.4336	117.75	.Q	.	.	.	.
6.250	42.2483	118.30	.Q	.	.	.	.
6.333	43.0668	118.85	.Q	.	.	.	.
6.417	43.8892	119.41	.Q	.	.	.	.
6.500	44.7154	119.97	.Q	.	.	.	.
6.583	45.5457	120.55	.Q	.	.	.	.
6.667	46.3799	121.13	.QV	.	.	.	.
6.750	47.2182	121.72	.QV	.	.	.	.
6.833	48.0606	122.31	.QV	.	.	.	.
6.917	48.9071	122.92	.QV	.	.	.	.
7.000	49.7578	123.53	.QV	.	.	.	.
7.083	50.6129	124.15	.QV	.	.	.	.
7.167	51.4722	124.78	.QV	.	.	.	.
7.250	52.3359	125.41	.QV	.	.	.	.
7.333	53.2041	126.06	.QV	.	.	.	.
7.417	54.0767	126.71	.QV	.	.	.	.
7.500	54.9540	127.37	.QV	.	.	.	.
7.583	55.8358	128.04	.QV	.	.	.	.
7.667	56.7223	128.72	.QV	.	.	.	.
7.750	57.6136	129.42	.QV	.	.	.	.
7.833	58.5097	130.11	.QV	.	.	.	.
7.917	59.4107	130.83	.QV	.	.	.	.
8.000	60.3167	131.54	.QV	.	.	.	.
8.083	61.2277	132.28	.Q V	.	.	.	.
8.167	62.1438	133.02	.Q V	.	.	.	.
8.250	63.0651	133.77	.Q V	.	.	.	.
8.333	63.9916	134.53	.Q V	.	.	.	.
8.417	64.9235	135.31	.Q V	.	.	.	.
8.500	65.8608	136.10	.Q V	.	.	.	.
8.583	66.8036	136.90	.Q V	.	.	.	.
8.667	67.7520	137.71	.Q V	.	.	.	.
8.750	68.7061	138.53	.Q V	.	.	.	.

8.833	69.6659	139.37	. Q V	.	.	.	.
8.917	70.6317	140.22	. Q V	.	.	.	.
9.000	71.6033	141.08	. Q V	.	.	.	.
9.083	72.5810	141.97	. Q V	.	.	.	.
9.167	73.5649	142.86	. Q V	.	.	.	.
9.250	74.5550	143.77	. Q V	.	.	.	.
9.333	75.5515	144.69	. Q V	.	.	.	.
9.417	76.5545	145.63	. Q V	.	.	.	.
9.500	77.5640	146.58	. Q V	.	.	.	.
9.583	78.5802	147.56	. Q V	.	.	.	.
9.667	79.6033	148.55	. Q V	.	.	.	.
9.750	80.6332	149.55	. Q V	.	.	.	.
9.833	81.6703	150.58	. Q V	.	.	.	.
9.917	82.7145	151.62	. Q V	.	.	.	.
10.000	83.7661	152.68	. Q V	.	.	.	.
10.083	84.8251	153.77	. Q V	.	.	.	.
10.167	85.8917	154.87	. Q V	.	.	.	.
10.250	86.9660	156.00	. Q V	.	.	.	.
10.333	88.0482	157.14	. Q V	.	.	.	.
10.417	89.1385	158.31	. Q V	.	.	.	.
10.500	90.2370	159.50	. Q V	.	.	.	.
10.583	91.3439	160.72	. Q V	.	.	.	.
10.667	92.4593	161.95	. Q V	.	.	.	.
10.750	93.5834	163.22	. Q V	.	.	.	.
10.833	94.7164	164.51	. Q V	.	.	.	.
10.917	95.8585	165.83	. Q V	.	.	.	.
11.000	97.0099	167.18	. Q V	.	.	.	.
11.083	98.1707	168.56	. Q V	.	.	.	.
11.167	99.3413	169.96	. Q V	.	.	.	.
11.250	100.5217	171.40	. Q V	.	.	.	.
11.333	101.7123	172.87	. Q V	.	.	.	.
11.417	102.9133	174.38	. Q V	.	.	.	.
11.500	104.1248	175.91	. Q V	.	.	.	.
11.583	105.3472	177.49	. Q V	.	.	.	.
11.667	106.5807	179.10	. Q V	.	.	.	.
11.750	107.8256	180.76	. Q V	.	.	.	.
11.833	109.0822	182.45	. Q V	.	.	.	.
11.917	110.3507	184.19	. Q V	.	.	.	.
12.000	111.6315	185.97	. Q V	.	.	.	.
12.083	112.9266	188.05	. Q V	.	.	.	.
12.167	114.2381	190.42	. Q V	.	.	.	.
12.250	115.5663	192.86	. Q V	.	.	.	.
12.333	116.9129	195.52	. Q V	.	.	.	.
12.417	118.2791	198.37	. Q V	.	.	.	.
12.500	119.6688	201.78	. Q V	.	.	.	.
12.583	121.0862	205.80	. Q V	.	.	.	.
12.667	122.5343	210.26	. Q V	.	.	.	.
12.750	124.0154	215.06	. Q V	.	.	.	.
12.833	125.5304	219.99	. Q V	.	.	.	.
12.917	127.0818	225.26	. Q V	.	.	.	.
13.000	128.6696	230.55	. Q V	.	.	.	.
13.083	130.2966	236.23	. Q V	.	.	.	.
13.167	131.9659	242.38	. Q V	.	.	.	.
13.250	133.6786	248.69	. Q V	.	.	.	.
13.333	135.4398	255.73	. Q V	.	.	.	.
13.417	137.2490	262.69	. Q V	.	.	.	.
13.500	139.1017	269.01	. Q V	.	.	.	.
13.583	141.0043	276.25	. Q V	.	.	.	.



13.667	142.9527	282.91	.	Q	V.	.	.	.
13.750	144.9462	289.45	.	Q	V.	.	.	.
13.833	146.9834	295.80	.	Q	V.	.	.	.
13.917	149.0614	301.73	.	Q	V.	.	.	.
14.000	151.1805	307.70	.	Q	V.	.	.	.
14.083	153.3455	314.36	.	Q	V	.	.	.
14.167	155.5600	321.54	.	Q	V	.	.	.
14.250	157.8232	328.62	.	Q	V	.	.	.
14.333	160.1377	336.06	.	Q	V	.	.	.
14.417	162.5063	343.93	.	Q	V	.	.	.
14.500	164.9388	353.20	.	Q	V	.	.	.
14.583	167.4458	364.01	.	Q	V	.	.	.
14.667	170.0339	375.79	.	Q	.V	.	.	.
14.750	172.7087	388.37	.	Q	.V	.	.	.
14.833	175.4725	401.30	.	Q	.V	.	.	.
14.917	178.3313	415.11	.	Q	.V	.	.	.
15.000	181.2873	429.21	.	Q	.V	.	.	.
15.083	184.3498	444.67	.	Q	.V	.	.	.
15.167	187.5301	461.77	.	Q	.V	.	.	.
15.250	190.8336	479.67	.	Q	.V	.	.	.
15.333	194.2792	500.31	.	Q	V	.	.	.
15.417	197.8572	519.53	.	Q	V	.	.	.
15.500	201.5506	536.27	.	Q	V	.	.	.
15.583	205.3850	556.76	.	.Q	V	.	.	.
15.667	209.3525	576.09	.	.Q	V	.	.	.
15.750	213.4697	597.80	.	.Q	V	.	.	.
15.833	217.7351	619.34	.	.Q	V	.	.	.
15.917	222.1560	641.92	.	.Q	V	.	.	.
16.000	226.7948	673.55	.	.	QV	.	.	.
16.083	231.9359	746.49	.	.	QV	.	.	.
16.167	237.5821	819.83	.	.	VQ	.	.	.
16.250	243.4872	857.42	.	.	V	Q	.	.
16.333	249.8962	930.58	.	.	V	Q	.	.
16.417	256.8848	1014.75	.	.	V	Q	.	.
16.500	264.8823	1161.23	.	.	V	Q	.	.
16.583	273.8942	1308.53	.	.	V	Q	.	.
16.667	283.5728	1405.33	.	.	V	Q	.	.
16.750	293.7156	1472.73	.	.	V	Q	.	.
16.833	304.1376	1513.28	.	.	V	Q	.	.
16.917	314.9688	1572.69	.	.	V	.Q	.	.
17.000	325.9932	1600.74	.	.	.V	.Q	.	.
17.083	337.5858	1683.24	.	.	.V	.Q	.	.
17.167	349.8003	1773.55	.	.	.V	.Q	.	.
17.250	362.2908	1813.62	.	.	.V	.Q	.	.
17.333	375.4088	1904.73	.	.	.V	.Q	.	.
17.417	388.1396	1848.51	.	.	.V	.Q	.	.
17.500	399.9385	1713.20	.	.	.V	.Q	.	.
17.583	412.2568	1788.61	.	.	.V	.Q	.	.
17.667	423.5421	1638.63	.	.	.V	.Q	.	.
17.750	434.0847	1530.79	.	.	.V	.Q	.	.
17.833	443.8102	1412.13	.	.	.V	.Q	.	.
17.917	452.5499	1269.01	.	.	.Q	.V	.	.
18.000	460.8420	1204.01	.	.	.Q	.V	.	.
18.083	468.6682	1136.37	.	.	.Q	.V	.	.
18.167	475.8246	1039.11	.	.	.Q	.V	.	.
18.250	482.2631	934.86	.	.	.Q	.V	.	.
18.333	488.1131	849.42	.	.	.Q	.V	.	.
18.417	493.6004	796.76	.	.	.Q	.V	.	.

18.500	498.7932	754.00	.	.	.Q	.	.	.V	.
18.583	503.6490	705.05	.	.	.Q	.	.	.V	.
18.667	508.0661	641.37	.	.	.Q	.	.	.V	.
18.750	512.1246	589.30	.	.	.Q	.	.	.V	.
18.833	515.9280	552.24	.	.	.Q	.	.	.V	.
18.917	519.3816	501.47	.	.	.Q	.	.	.V	.
19.000	522.6464	474.05	.	.	.Q	.	.	.V	.
19.083	525.7354	448.52	.	.	.Q	.	.	.V	.
19.167	528.5942	415.10	.	.	.Q	.	.	.V	.
19.250	531.0753	360.25	.	.	.Q	.	.	.V	.
19.333	533.3902	336.13	.	.	.Q	.	.	.V	.
19.417	535.6087	322.13	.	.	.Q	.	.	.V	.
19.500	537.7453	310.23	.	.	.Q	.	.	.V	.
19.583	539.7878	296.58	.	.	.Q	.	.	.V	.
19.667	541.7483	284.66	.	.	.Q	.	.	.V	.
19.750	543.6349	273.94	.	.	.Q	.	.	.V	.
19.833	545.4546	264.21	.	.	.Q	.	.	.V	.
19.917	547.2157	255.71	.	.	.Q	.	.	.V	.
20.000	548.9261	248.35	.	.	.Q	.	.	.V	.
20.083	550.5882	241.34	.	.	.Q	.	.	.V	.
20.167	552.2056	234.84	.	.	.Q	.	.	.V	.
20.250	553.7849	229.31	.	.	.Q	.	.	.V	.
20.333	555.3250	223.62	.	.	.Q	.	.	.V	.
20.417	556.8251	217.82	.	.	.Q	.	.	.V	.
20.500	558.2772	210.85	.	.	.Q	.	.	.V	.
20.583	559.6709	202.37	.	.	.Q	.	.	.V	.
20.667	560.9299	182.80	.	.	.Q	.	.	.V	.
20.750	562.1520	177.45	.	.	.Q	.	.	.V	.
20.833	563.3491	173.82	.	.	.Q	.	.	.V	.
20.917	564.5242	170.62	.	.	.Q	.	.	.V	.
21.000	565.6736	166.89	.	.	.Q	.	.	.V	.
21.083	566.7993	163.45	.	.	.Q	.	.	.V	.
21.167	567.9031	160.28	.	.	.Q	.	.	.V	.
21.250	568.9880	157.52	.	.	.Q	.	.	.V	.
21.333	570.0547	154.90	.	.	.Q	.	.	.V	.
21.417	571.1041	152.37	.	.	.Q	.	.	.V	.
21.500	572.1368	149.94	.	.	.Q	.	.	.V	.
21.583	573.1533	147.59	.	.	.Q	.	.	.V	.
21.667	574.1555	145.53	.	.	.Q	.	.	.V	.
21.750	575.1440	143.53	.	.	.Q	.	.	.V	.
21.833	576.1193	141.61	.	.	.Q	.	.	.V	.
21.917	577.0818	139.76	.	.	.Q	.	.	.V	.
22.000	578.0320	137.96	.	.	.Q	.	.	.V	.
22.083	578.9703	136.23	.	.	.Q	.	.	.V	.
22.167	579.8969	134.55	.	.	.Q	.	.	.V	.
22.250	580.8123	132.92	.	.	.Q	.	.	.V	.
22.333	581.7168	131.33	.	.	.Q	.	.	.V	.
22.417	582.6107	129.80	.	.	.Q	.	.	.V	.
22.500	583.4944	128.31	.	.	.Q	.	.	.V	.
22.583	584.3680	126.85	.	.	.Q	.	.	.V	.
22.667	585.2325	125.53	.	.	.Q	.	.	.V	.
22.750	586.0881	124.23	.	.	.Q	.	.	.V	.
22.833	586.9351	122.98	.	.	.Q	.	.	.V	.
22.917	587.7736	121.75	.	.	.Q	.	.	.V	.
23.000	588.6039	120.56	.	.	.Q	.	.	.V	.
23.083	589.4262	119.40	.	.	.Q	.	.	.V	.
23.167	590.2408	118.27	.	.	.Q	.	.	.V	.
23.250	591.0477	117.17	.	.	.Q	.	.	.V	.

23.333	591.8473	116.10	. Q	.	.	.	V .
23.417	592.6396	115.05	. Q	.	.	.	V .
23.500	593.4249	114.02	. Q	.	.	.	V .
23.583	594.2033	113.02	. Q	.	.	.	V .
23.667	594.9750	112.05	. Q	.	.	.	V .
23.750	595.7401	111.09	. Q	.	.	.	V .
23.833	596.4987	110.16	. Q	.	.	.	V .
23.917	597.2511	109.25	. Q	.	.	.	V .
24.000	597.9973	108.35	. Q	.	.	.	V .
24.083	598.7352	107.14	. Q	.	.	.	V .
24.167	599.4626	105.61	. Q	.	.	.	V .
24.250	600.1795	104.09	. Q	.	.	.	V .
24.333	600.8845	102.36	. Q	.	.	.	V .
24.417	601.5765	100.48	. Q	.	.	.	V .
24.500	602.2510	97.95	.Q	.	.	.	V .
24.583	602.9033	94.70	.Q	.	.	.	V .
24.667	603.5298	90.98	.Q	.	.	.	V .
24.750	604.1286	86.94	.Q	.	.	.	V .
24.833	604.6992	82.85	.Q	.	.	.	V .
24.917	605.2394	78.44	.Q	.	.	.	V .
25.000	605.7501	74.15	.Q	.	.	.	V .
25.083	606.2287	69.50	.Q	.	.	.	V .
25.167	606.6719	64.36	.Q	.	.	.	V .
25.250	607.0796	59.19	.Q	.	.	.	V .
25.333	607.4460	53.20	.Q	.	.	.	V .
25.417	607.7733	47.53	Q	.	.	.	V .
25.500	608.0688	42.90	Q	.	.	.	V .
25.583	608.3253	37.25	Q	.	.	.	V .
25.667	608.5496	32.56	Q	.	.	.	V .
25.750	608.7443	28.28	Q	.	.	.	V .
25.833	608.9127	24.45	Q	.	.	.	V .
25.917	609.0605	21.45	Q	.	.	.	V .
26.000	609.1886	18.61	Q	.	.	.	V .
26.083	609.2983	15.93	Q	.	.	.	V .
26.167	609.3922	13.63	Q	.	.	.	V .
26.250	609.4733	11.78	Q	.	.	.	V .
26.333	609.5441	10.28	Q	.	.	.	V .
26.417	609.6056	8.92	Q	.	.	.	V .
26.500	609.6583	7.65	Q	.	.	.	V .
26.583	609.7028	6.46	Q	.	.	.	V .
26.667	609.7407	5.51	Q	.	.	.	V .
26.750	609.7732	4.72	Q	.	.	.	V .
26.833	609.8006	3.98	Q	.	.	.	V .
26.917	609.8245	3.46	Q	.	.	.	V .
27.000	609.8450	2.97	Q	.	.	.	V .
27.083	609.8621	2.49	Q	.	.	.	V .
27.167	609.8763	2.05	Q	.	.	.	V .
27.250	609.8893	1.89	Q	.	.	.	V .
27.333	609.9014	1.76	Q	.	.	.	V .
27.417	609.9127	1.64	Q	.	.	.	V .
27.500	609.9232	1.52	Q	.	.	.	V .
27.583	609.9327	1.39	Q	.	.	.	V .
27.667	609.9415	1.27	Q	.	.	.	V .
27.750	609.9495	1.15	Q	.	.	.	V .
27.833	609.9566	1.03	Q	.	.	.	V .
27.917	609.9629	0.92	Q	.	.	.	V .
28.000	609.9684	0.80	Q	.	.	.	V .
28.083	609.9731	0.68	Q	.	.	.	V .

28.167	609.9770	0.57	Q	.	.	.	V .
28.250	609.9801	0.45	Q	.	.	.	V .
28.333	609.9824	0.34	Q	.	.	.	V .
28.417	609.9839	0.22	Q	.	.	.	V .
28.500	609.9847	0.11	Q	.	.	.	V .

-----  
TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
(Note: 100% of Peak Flow Rate estimate assumed to have  
an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
=====	=====
0%	1710.0
10%	505.0
20%	270.0
30%	190.0
40%	140.0
50%	110.0
60%	95.0
70%	75.0
80%	55.0
90%	25.0
=====	=====

END OF FLOODSCx ROUTING ANALYSIS

\*\*\*\*\*

FLOOD ROUTING ANALYSIS
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)
(c) Copyright 1989-2013 Advanced Engineering Software (aes)
Ver. 20.0 Release Date: 06/01/2013 License ID 1237

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*
\* RMV PA-3 BODR 2022 - NODE 133U \*
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*
\* 10-YR EV JULY 2022 ROKAMOTO \*

FILE NAME: EV1033US.DAT
TIME/DATE OF STUDY: 11:42 07/25/2022

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 133.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<

\*\*\*\*\*

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 54417.500 ACRES
BASEFLOW = 0.000 CFS/SQUARE-MILE
\*USER ENTERED "LAG" TIME = 2.727 HOURS
VALLEY (DEVELOPED) S-GRAPH SELECTED
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.290
LOW LOSS FRACTION = 0.737
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.32
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.63
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 0.87
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 1.62
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 2.39
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 4.20

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:
5-MINUTE FACTOR = 0.328
30-MINUTE FACTOR = 0.381
1-HOUR FACTOR = 0.422
3-HOUR FACTOR = 0.771
6-HOUR FACTOR = 0.897
24-HOUR FACTOR = 0.940

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 3.056

UNIT HYDROGRAPH DETERMINATION

Table with 3 columns: INTERVAL NUMBER, "S" GRAPH MEAN VALUES, UNIT HYDROGRAPH ORDINATES (CFS). Rows 1-48.

49	81.738	9391.567
50	83.059	8695.356
51	84.310	8229.559
52	85.477	7681.667
53	86.518	6850.944
54	87.458	6188.475
55	88.304	5566.976
56	89.024	4736.252
57	89.742	4726.763
58	90.413	4417.621
59	91.056	4233.601
60	91.700	4233.601
61	92.310	4019.104
62	92.892	3829.813
63	93.474	3829.762
64	94.022	3604.772
65	94.426	2658.365
66	94.814	2551.066
67	95.202	2555.334
68	95.590	2555.284
69	95.963	2456.471
70	96.226	1726.669
71	96.465	1577.345
72	96.705	1577.345
73	96.945	1579.454
74	97.185	1577.345
75	97.425	1577.345
76	97.664	1577.345
77	97.903	1571.019
78	98.035	866.523
79	98.092	378.533
80	98.149	374.365
81	98.206	376.474
82	98.264	378.533
83	98.321	374.365
84	98.377	374.365
85	98.435	380.692
86	98.492	374.315
87	98.549	374.365
88	98.607	380.692
89	98.664	378.533
90	98.721	372.256
91	98.779	382.801
92	98.835	370.148
93	98.894	382.750
94	98.950	374.365
95	99.008	378.583
96	99.065	374.365
97	99.122	374.365
98	99.179	374.365
99	99.236	374.365
100	99.292	374.365
101	99.349	374.365
102	99.406	374.365
103	99.463	374.365
104	99.520	374.365
105	99.577	374.365
106	99.634	374.365

107	99.691	374.365
108	99.747	374.365
109	99.804	374.365
110	99.861	374.365
111	99.918	374.365
112	99.975	374.365
113	100.000	164.287

-----  
TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 12630.2773  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 5274.4326  
-----

2 4 - 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 FIVE-MINUTE UNIT INTERVALS (CFS)

(Note: Time indicated is at END of Each Unit Intervals)

TIME (HRS)	VOLUME (AF)	Q (CFS)	0.	1825.0	3650.0	5475.0	7300.0
0.083	0.0126	1.83	Q	.	.	.	.
0.167	0.0503	5.48	Q	.	.	.	.
0.250	0.1133	9.15	Q	.	.	.	.
0.333	0.2016	12.82	Q	.	.	.	.
0.417	0.3153	16.51	Q	.	.	.	.
0.500	0.4550	20.28	Q	.	.	.	.
0.583	0.6298	25.39	Q	.	.	.	.
0.667	0.8434	31.02	Q	.	.	.	.
0.750	1.0959	36.66	Q	.	.	.	.
0.833	1.3916	42.93	Q	.	.	.	.
0.917	1.7547	52.72	Q	.	.	.	.
1.000	2.1916	63.44	Q	.	.	.	.
1.083	2.7193	76.62	Q	.	.	.	.
1.167	3.3514	91.78	Q	.	.	.	.
1.250	4.1008	108.82	Q	.	.	.	.
1.333	4.9628	125.16	Q	.	.	.	.
1.417	5.9376	141.53	Q	.	.	.	.
1.500	7.0605	163.06	Q	.	.	.	.
1.583	8.3208	182.99	VQ	.	.	.	.
1.667	9.7021	200.57	VQ	.	.	.	.
1.750	11.2142	219.55	VQ	.	.	.	.
1.833	12.8864	242.81	VQ	.	.	.	.
1.917	14.7144	265.42	VQ	.	.	.	.
2.000	16.6736	284.47	VQ	.	.	.	.
2.083	18.7768	305.39	VQ	.	.	.	.
2.167	21.0488	329.88	VQ	.	.	.	.
2.250	23.5030	356.35	VQ	.	.	.	.
2.333	26.1474	383.96	V Q	.	.	.	.
2.417	28.9298	404.01	V Q	.	.	.	.
2.500	31.9238	434.73	V Q	.	.	.	.
2.583	35.1252	464.84	V Q	.	.	.	.
2.667	38.5359	495.23	V Q	.	.	.	.
2.750	42.1882	530.31	V Q	.	.	.	.
2.833	46.0398	559.25	V Q	.	.	.	.
2.917	50.0618	584.00	V Q	.	.	.	.
3.000	54.2485	607.90	V Q	.	.	.	.
3.083	58.6249	635.46	V Q	.	.	.	.
3.167	63.2299	668.64	V Q	.	.	.	.
3.250	68.0422	698.75	V Q	.	.	.	.
3.333	73.0233	723.26	V Q	.	.	.	.
3.417	78.1722	747.61	V Q	.	.	.	.
3.500	83.4967	773.12	V Q	.	.	.	.
3.583	88.9710	794.86	V Q	.	.	.	.
3.667	94.6035	817.84	V Q	.	.	.	.
3.750	100.3815	838.97	V Q	.	.	.	.
3.833	106.2782	856.20	V Q	.	.	.	.
3.917	112.2917	873.16	V Q	.	.	.	.

4.000	118.4240	890.41	V Q	.	.	.	.
4.083	124.6790	908.23	V Q	.	.	.	.
4.167	131.0497	925.02	V Q	.	.	.	.
4.250	137.5313	941.13	.V Q	.	.	.	.
4.333	144.1185	956.45	.V Q	.	.	.	.
4.417	150.8024	970.51	.V Q	.	.	.	.
4.500	157.5764	983.58	.V Q	.	.	.	.
4.583	164.4340	995.72	.V Q	.	.	.	.
4.667	171.3665	1006.60	.V Q	.	.	.	.
4.750	178.3742	1017.52	.V Q	.	.	.	.
4.833	185.4541	1028.01	.V Q	.	.	.	.
4.917	192.6046	1038.24	.V Q	.	.	.	.
5.000	199.8260	1048.55	.V Q	.	.	.	.
5.083	207.1163	1058.55	.V Q	.	.	.	.
5.167	214.4740	1068.33	.V Q	.	.	.	.
5.250	221.8992	1078.14	.V Q	.	.	.	.
5.333	229.3900	1087.66	.V Q	.	.	.	.
5.417	236.9363	1095.72	.V Q	.	.	.	.
5.500	244.5374	1103.68	.V Q	.	.	.	.
5.583	252.1936	1111.68	.V Q	.	.	.	.
5.667	259.9054	1119.75	.V Q	.	.	.	.
5.750	267.6719	1127.70	. V Q	.	.	.	.
5.833	275.4856	1134.55	. V Q	.	.	.	.
5.917	283.3452	1141.21	. V Q	.	.	.	.
6.000	291.2510	1147.93	. V Q	.	.	.	.
6.083	299.2034	1154.69	. V Q	.	.	.	.
6.167	307.2028	1161.51	. V Q	.	.	.	.
6.250	315.2494	1168.37	. V Q	.	.	.	.
6.333	323.3438	1175.30	. V Q	.	.	.	.
6.417	331.4861	1182.26	. V Q	.	.	.	.
6.500	339.6691	1188.17	. V Q	.	.	.	.
6.583	347.8878	1193.35	. V Q	.	.	.	.
6.667	356.1425	1198.59	. V Q	.	.	.	.
6.750	364.4336	1203.86	. V Q	.	.	.	.
6.833	372.7615	1209.21	. V Q	.	.	.	.
6.917	381.1264	1214.59	. V Q	.	.	.	.
7.000	389.5289	1220.04	. V Q	.	.	.	.
7.083	397.9693	1225.55	. V Q	.	.	.	.
7.167	406.4481	1231.12	. V Q	.	.	.	.
7.250	414.9655	1236.72	. V Q	.	.	.	.
7.333	423.5221	1242.42	. V Q	.	.	.	.
7.417	432.1182	1248.16	. V Q	.	.	.	.
7.500	440.7544	1253.97	. V Q	.	.	.	.
7.583	449.4309	1259.84	. V Q	.	.	.	.
7.667	458.1483	1265.77	. V Q	.	.	.	.
7.750	466.9070	1271.77	. V Q	.	.	.	.
7.833	475.7076	1277.84	. V Q	.	.	.	.
7.917	484.5504	1283.97	. V Q	.	.	.	.
8.000	493.4359	1290.18	. V Q	.	.	.	.
8.083	502.3646	1296.44	. V Q	.	.	.	.
8.167	511.3371	1302.80	. V Q	.	.	.	.
8.250	520.3537	1309.21	. V Q	.	.	.	.
8.333	529.4152	1315.72	. V Q	.	.	.	.
8.417	538.5218	1322.28	. V Q	.	.	.	.
8.500	547.6743	1328.95	. V Q	.	.	.	.
8.583	556.8732	1335.67	. V Q	.	.	.	.
8.667	566.1191	1342.50	. V Q	.	.	.	.
8.750	575.4124	1349.39	. V Q	.	.	.	.

8.833	584.7540	1356.40	.	V	Q	.	.	.	.
8.917	594.1442	1363.46	.	V	Q	.	.	.	.
9.000	603.5839	1370.64	.	V	Q	.	.	.	.
9.083	613.0734	1377.89	.	V	Q	.	.	.	.
9.167	622.6138	1385.26	.	V	Q	.	.	.	.
9.250	632.2053	1392.69	.	V	Q	.	.	.	.
9.333	641.8490	1400.26	.	V	Q	.	.	.	.
9.417	651.5430	1407.56	.	V	Q	.	.	.	.
9.500	661.2863	1414.74	.	V	Q	.	.	.	.
9.583	671.0796	1421.99	.	V	Q	.	.	.	.
9.667	680.9238	1429.37	.	V	Q	.	.	.	.
9.750	690.8193	1436.84	.	V	Q	.	.	.	.
9.833	700.7673	1444.45	.	V	Q	.	.	.	.
9.917	710.7683	1452.14	.	V	Q	.	.	.	.
10.000	720.8234	1459.99	.	V	Q	.	.	.	.
10.083	730.9330	1467.92	.	V	Q	.	.	.	.
10.167	741.0984	1476.01	.	V	Q	.	.	.	.
10.250	751.3202	1484.20	.	V	Q	.	.	.	.
10.333	761.5995	1492.55	.	V	Q	.	.	.	.
10.417	771.9370	1501.00	.	V	Q	.	.	.	.
10.500	782.3338	1509.63	.	V	Q	.	.	.	.
10.583	792.7908	1518.36	.	V	Q	.	.	.	.
10.667	803.3093	1527.27	.	V	Q	.	.	.	.
10.750	813.8899	1536.30	.	V	Q	.	.	.	.
10.833	824.5340	1545.53	.	V	Q	.	.	.	.
10.917	835.2424	1554.87	.	V	Q	.	.	.	.
11.000	846.0167	1564.42	.	V	Q	.	.	.	.
11.083	856.8575	1574.09	.	V	Q	.	.	.	.
11.167	867.7665	1583.98	.	V	Q	.	.	.	.
11.250	878.7446	1594.01	.	V	Q	.	.	.	.
11.333	889.7933	1604.27	.	V	Q	.	.	.	.
11.417	900.9136	1614.68	.	V	Q	.	.	.	.
11.500	912.1073	1625.32	.	V	Q	.	.	.	.
11.583	923.3754	1636.13	.	V	Q	.	.	.	.
11.667	934.7197	1647.19	.	V	Q	.	.	.	.
11.750	946.1414	1658.43	.	V	Q	.	.	.	.
11.833	957.6423	1669.93	.	V	Q	.	.	.	.
11.917	969.2238	1681.62	.	V	Q	.	.	.	.
12.000	980.8877	1693.60	.	V	Q	.	.	.	.
12.083	992.6569	1708.88	.	V	Q	.	.	.	.
12.167	1004.5546	1727.56	.	V	Q	.	.	.	.
12.250	1016.5823	1746.42	.	V	Q	.	.	.	.
12.333	1028.7421	1765.58	.	V	Q	.	.	.	.
12.417	1041.0350	1784.95	.	V	Q	.	.	.	.
12.500	1053.4645	1804.75	.	V	Q	.	.	.	.
12.583	1066.0474	1827.03	.	V	Q	.	.	.	.
12.667	1078.7917	1850.49	.	V	Q	.	.	.	.
12.750	1091.6993	1874.18	.	V	Q	.	.	.	.
12.833	1104.7795	1899.24	.	V	Q	.	.	.	.
12.917	1118.0750	1930.49	.	V	Q	.	.	.	.
13.000	1131.5985	1963.62	.	V	Q	.	.	.	.
13.083	1145.3800	2001.08	.	V	Q	.	.	.	.
13.167	1159.4447	2042.19	.	V	.Q	.	.	.	.
13.250	1173.8153	2086.62	.	V	.Q	.	.	.	.
13.333	1188.4856	2130.13	.	V	.Q	.	.	.	.
13.417	1203.4564	2173.77	.	V	.Q	.	.	.	.
13.500	1218.7904	2226.49	.	V	.Q	.	.	.	.
13.583	1234.4694	2276.58	.	V	.Q	.	.	.	.

13.667	1250.4675	2322.94	.	V	.Q	.	.	.	.
13.750	1266.8022	2371.81	.	V	.Q	.	.	.	.
13.833	1283.5259	2428.28	.	V	.Q	.	.	.	.
13.917	1300.6316	2483.74	.	V	.Q	.	.	.	.
14.000	1318.0797	2533.46	.	V	.Q	.	.	.	.
14.083	1335.9489	2594.60	.	V	.Q	.	.	.	.
14.167	1354.3378	2670.07	.	V	.Q	.	.	.	.
14.250	1373.2665	2748.46	.	V	.Q	.	.	.	.
14.333	1392.7466	2828.52	.	V	.Q	.	.	.	.
14.417	1412.6863	2895.25	.	V	.Q	.	.	.	.
14.500	1433.2109	2980.18	.	V	.Q	.	.	.	.
14.583	1454.3506	3069.48	.	.V	.Q	.	.	.	.
14.667	1476.1200	3160.91	.	.V	.Q	.	.	.	.
14.750	1498.5681	3259.46	.	.V	.Q	.	.	.	.
14.833	1521.6364	3349.52	.	.V	.Q	.	.	.	.
14.917	1545.3755	3446.92	.	.V	.Q	.	.	.	.
15.000	1569.7952	3545.74	.	.V	.Q	.	.	.	.
15.083	1594.9990	3659.60	.	.V	.Q	.	.	.	.
15.167	1621.1001	3789.87	.	.V	.Q	.	.	.	.
15.250	1648.0984	3920.15	.	.V	.Q	.	.	.	.
15.333	1675.8876	4034.98	.	.V	.Q	.	.	.	.
15.417	1704.4043	4140.62	.	.V	.Q	.	.	.	.
15.500	1733.7666	4263.42	.	.V	.Q	.	.	.	.
15.583	1763.8629	4369.99	.	.V	.Q	.	.	.	.
15.667	1794.6211	4466.10	.	.V	.Q	.	.	.	.
15.750	1826.0356	4561.39	.	.V	.Q	.	.	.	.
15.833	1858.1675	4665.53	.	.V	.Q	.	.	.	.
15.917	1890.9594	4761.38	.	.V	.Q	.	.	.	.
16.000	1924.3479	4848.02	.	.V	.Q	.	.	.	.
16.083	1958.9562	5025.12	.	.V	.Q	.	.	.	.
16.167	1994.7786	5201.41	.	.V	.Q	.	.	.	.
16.250	2031.1688	5283.87	.	.V	.Q	.	.	.	.
16.333	2068.1057	5363.24	.	.V	.Q	.	.	.	.
16.417	2105.3208	5403.62	.	.V	.Q	.	.	.	.
16.500	2143.1853	5497.92	.	.V	.Q	.	.	.	.
16.583	2181.9954	5635.23	.	.V	.Q	.	.	.	.
16.667	2221.4727	5732.11	.	.V	.Q	.	.	.	.
16.750	2261.6423	5832.65	.	.V	.Q	.	.	.	.
16.833	2302.4697	5928.14	.	.V	.Q	.	.	.	.
16.917	2344.7339	6136.77	.	.V	.Q	.	.	.	.
17.000	2387.7029	6239.12	.	.V	.Q	.	.	.	.
17.083	2431.8721	6413.36	.	.V	.Q	.	.	.	.
17.167	2477.0496	6559.78	.	.V	.Q	.	.	.	.
17.250	2523.1045	6687.19	.	.V	.Q	.	.	.	.
17.333	2569.1907	6691.71	.	.V	.Q	.	.	.	.
17.417	2615.6675	6748.44	.	.V	.Q	.	.	.	.
17.500	2663.9038	7003.92	.	.V	.Q	.	.	.	.
17.583	2711.5886	6923.84	.	.V	.Q	.	.	.	.
17.667	2758.6738	6836.76	.	.V	.Q	.	.	.	.
17.750	2806.5530	6952.05	.	.V	.Q	.	.	.	.
17.833	2855.6733	7132.26	.	.V	.Q	.	.	.	.
17.917	2904.2654	7055.55	.	.V	.Q	.	.	.	.
18.000	2951.5820	6870.39	.	.V	.Q	.	.	.	.
18.083	2999.3398	6934.43	.	.V	.Q	.	.	.	.
18.167	3048.0984	7079.76	.	.V	.Q	.	.	.	.
18.250	3097.2964	7143.56	.	.V	.Q	.	.	.	.
18.333	3146.4055	7130.65	.	.V	.Q	.	.	.	.
18.417	3193.1145	6782.14	.	.V	.Q	.	.	.	.

18.500	3242.6885	7198.13	.	.	.	V	.	Q.
18.583	3291.6951	7115.77	.	.	.	V	.	Q.
18.667	3340.7249	7119.11	.	.	.	V	.	Q.
18.750	3390.5859	7239.83	.	.	.	V	.	Q.
18.833	3437.8604	6864.25	.	.	.	V	.	Q.
18.917	3483.4451	6618.90	.	.	.	V	.	Q.
19.000	3528.7415	6577.05	.	.	.	V	.	Q.
19.083	3575.2991	6760.18	.	.	.	V	.	Q.
19.167	3623.2520	6962.77	.	.	.	V	.	Q.
19.250	3669.5774	6726.44	.	.	.	V	.	Q.
19.333	3713.5601	6386.29	.	.	.	V	.	Q.
19.417	3757.2048	6337.24	.	.	.	V	.	Q.
19.500	3800.5581	6294.88	.	.	.	V	.	Q.
19.583	3842.2234	6049.80	.	.	.	V	.	Q.
19.667	3883.5969	6007.44	.	.	.	V	.	Q.
19.750	3923.4668	5789.10	.	.	.	V	.	Q.
19.833	3961.4417	5513.94	.	.	.	Q	.	.
19.917	3998.8037	5424.98	.	.	.	QV	.	.
20.000	4035.8386	5377.46	.	.	.	QV	.	.
20.083	4072.4185	5311.40	.	.	.	QV	.	.
20.167	4107.7285	5127.04	.	.	.	Q.V	.	.
20.250	4141.9082	4962.89	.	.	.	Q.V	.	.
20.333	4175.0342	4809.86	.	.	.	Q.V	.	.
20.417	4207.0654	4650.96	.	.	.	Q.V	.	.
20.500	4237.8711	4472.99	.	.	.	Q.V	.	.
20.583	4267.5430	4308.37	.	.	.	Q.V	.	.
20.667	4295.9668	4127.17	.	.	.	Q.V	.	.
20.750	4323.5503	4005.10	.	.	.	Q.V	.	.
20.833	4350.3179	3886.68	.	.	.	Q.V	.	.
20.917	4376.3750	3783.51	.	.	.	Q.V	.	.
21.000	4401.7720	3687.67	.	.	.	Q.V	.	.
21.083	4426.3423	3567.58	.	.	.	Q.V	.	.
21.167	4450.0767	3446.23	.	.	.	Q.V	.	.
21.250	4473.0933	3341.98	.	.	.	Q.V	.	.
21.333	4495.3228	3227.71	.	.	.	Q.V	.	.
21.417	4516.4727	3070.94	.	.	.	Q.V	.	.
21.500	4536.9922	2979.45	.	.	.	Q.V	.	.
21.583	4557.0112	2906.79	.	.	.	Q.V	.	.
21.667	4576.5381	2835.30	.	.	.	Q.V	.	.
21.750	4595.4849	2751.04	.	.	.	Q.V	.	.
21.833	4613.6421	2636.46	.	.	.	Q.V	.	.
21.917	4631.3438	2570.27	.	.	.	Q.V	.	.
22.000	4648.6597	2514.25	.	.	.	Q.V	.	.
22.083	4665.5913	2458.45	.	.	.	Q.V	.	.
22.167	4682.1382	2402.59	.	.	.	Q.V	.	.
22.250	4698.3003	2346.74	.	.	.	Q.V	.	.
22.333	4714.0811	2291.39	.	.	.	Q.V	.	.
22.417	4729.4927	2237.79	.	.	.	Q.V	.	.
22.500	4744.2114	2137.17	.	.	.	Q.V	.	.
22.583	4758.3896	2058.69	.	.	.	Q.V	.	.
22.667	4772.2930	2018.78	.	.	.	Q.V	.	.
22.750	4785.9351	1980.80	.	.	.	Q.V	.	.
22.833	4799.3389	1946.22	.	.	.	Q.V	.	.
22.917	4812.4961	1910.40	.	.	.	Q.V	.	.
23.000	4825.4062	1874.57	.	.	.	Q.V	.	.
23.083	4838.0737	1839.32	.	.	.	Q.V	.	.
23.167	4850.4951	1803.56	.	.	.	Q.V	.	.
23.250	4862.6719	1768.08	.	.	.	Q.V	.	.

23.333	4874.6104	1733.49	.	.	.	Q.	.	V
23.417	4886.3135	1699.27	.	.	.	Q.	.	V
23.500	4897.8081	1668.99	.	.	.	Q.	.	V
23.583	4909.1279	1643.63	.	.	.	Q.	.	V
23.667	4920.2666	1617.36	.	.	.	Q.	.	V
23.750	4931.2417	1593.58	.	.	.	Q.	.	V
23.833	4942.0596	1570.76	.	.	.	Q.	.	V
23.917	4952.7334	1549.81	.	.	.	Q.	.	V
24.000	4963.2617	1528.69	.	.	.	Q.	.	V
24.083	4973.6372	1506.55	.	.	.	Q.	.	V
24.167	4983.8511	1483.06	.	.	.	Q.	.	V
24.250	4993.9067	1460.06	.	.	.	Q.	.	V
24.333	5003.8066	1437.44	.	.	.	Q.	.	V
24.417	5013.5537	1415.30	.	.	.	Q.	.	V
24.500	5023.1646	1395.47	.	.	.	Q.	.	V
24.583	5032.6411	1376.01	.	.	.	Q.	.	V
24.667	5041.9844	1356.61	.	.	.	Q.	.	V
24.750	5051.2031	1338.57	.	.	.	Q.	.	V
24.833	5060.3013	1321.09	.	.	.	Q.	.	V
24.917	5069.2563	1300.26	.	.	.	Q.	.	V
25.000	5078.0630	1278.71	.	.	.	Q.	.	V
25.083	5086.7075	1255.17	.	.	.	Q.	.	V
25.167	5095.1787	1230.03	.	.	.	Q.	.	V
25.250	5103.4624	1202.79	.	.	.	Q.	.	V
25.333	5111.5522	1174.66	.	.	.	Q.	.	V
25.417	5119.3467	1131.78	.	.	.	Q.	.	V
25.500	5126.8462	1088.95	.	.	.	Q.	.	V
25.583	5134.1489	1060.32	.	.	.	Q.	.	V
25.667	5141.2744	1034.62	.	.	.	Q.	.	V
25.750	5148.2095	1006.99	.	.	.	Q.	.	V
25.833	5154.9209	974.48	.	.	.	Q.	.	V
25.917	5161.4131	942.67	.	.	.	Q.	.	V
26.000	5167.7114	914.51	.	.	.	Q.	.	V
26.083	5173.8037	884.58	.	.	.	Q.	.	V
26.167	5179.6660	851.19	.	.	.	Q.	.	V
26.250	5185.2856	815.98	.	.	.	Q.	.	V
26.333	5190.6562	779.82	.	.	.	Q.	.	V
26.417	5195.8413	752.90	.	.	.	Q.	.	V
26.500	5200.7778	716.77	.	.	.	Q.	.	V
26.583	5205.4722	681.62	.	.	.	Q.	.	V
26.667	5209.9253	646.60	.	.	.	Q.	.	V
26.750	5214.1074	607.25	.	.	.	Q.	.	V
26.833	5218.0640	574.46	.	.	.	Q.	.	V
26.917	5221.8257	546.20	.	.	.	Q.	.	V
27.000	5225.4009	519.09	.	.	.	Q.	.	V
27.083	5228.7661	488.62	.	.	.	Q.	.	V
27.167	5231.8853	452.87	.	.	.	Q.	.	V
27.250	5234.7812	420.53	.	.	.	Q.	.	V
27.333	5237.4956	394.12	.	.	.	Q.	.	V
27.417	5240.0352	368.71	.	.	.	Q.	.	V
27.500	5242.3965	342.88	.	.	.	Q.	.	V
27.583	5244.6079	321.07	.	.	.	Q.	.	V
27.667	5246.6621	298.30	.	.	.	Q.	.	V
27.750	5248.5742	277.61	.	.	.	Q.	.	V
27.833	5250.3721	261.07	.	.	.	Q.	.	V
27.917	5252.0591	244.98	.	.	.	Q.	.	V
28.000	5253.6348	228.80	.	.	.	Q.	.	V
28.083	5255.0962	212.23	.	.	.	Q.	.	V

28.167	5256.4521	196.89	.Q	.	.	.	V.
28.250	5257.7085	182.41	Q	.	.	.	V.
28.333	5258.8716	168.90	Q	.	.	.	V.
28.417	5259.9517	156.80	Q	.	.	.	V.
28.500	5260.9561	145.85	Q	.	.	.	V.
28.583	5261.8926	135.96	Q	.	.	.	V.
28.667	5262.7705	127.46	Q	.	.	.	V.
28.750	5263.5903	119.04	Q	.	.	.	V.
28.833	5264.3560	111.17	Q	.	.	.	V.
28.917	5265.0698	103.66	Q	.	.	.	V.
29.000	5265.7324	96.20	Q	.	.	.	V.
29.083	5266.3462	89.14	Q	.	.	.	V.
29.167	5266.9141	82.42	Q	.	.	.	V.
29.250	5267.4360	75.76	Q	.	.	.	V.
29.333	5267.9146	69.50	Q	.	.	.	V.
29.417	5268.3608	64.78	Q	.	.	.	V.
29.500	5268.7759	60.27	Q	.	.	.	V.
29.583	5269.1602	55.78	Q	.	.	.	V.
29.667	5269.5137	51.33	Q	.	.	.	V.
29.750	5269.8379	47.07	Q	.	.	.	V.
29.833	5270.1406	43.99	Q	.	.	.	V.
29.917	5270.4243	41.17	Q	.	.	.	V.
30.000	5270.6885	38.38	Q	.	.	.	V.
30.083	5270.9336	35.60	Q	.	.	.	V.
30.167	5271.1597	32.84	Q	.	.	.	V.
30.250	5271.3672	30.10	Q	.	.	.	V.
30.333	5271.5557	27.39	Q	.	.	.	V.
30.417	5271.7256	24.70	Q	.	.	.	V.
30.500	5271.8848	23.14	Q	.	.	.	V.
30.583	5272.0391	22.38	Q	.	.	.	V.
30.667	5272.1880	21.62	Q	.	.	.	V.
30.750	5272.3315	20.87	Q	.	.	.	V.
30.833	5272.4702	20.12	Q	.	.	.	V.
30.917	5272.6035	19.39	Q	.	.	.	V.
31.000	5272.7319	18.66	Q	.	.	.	V.
31.083	5272.8555	17.93	Q	.	.	.	V.
31.167	5272.9741	17.21	Q	.	.	.	V.
31.250	5273.0879	16.50	Q	.	.	.	V.
31.333	5273.1968	15.78	Q	.	.	.	V.
31.417	5273.3008	15.08	Q	.	.	.	V.
31.500	5273.3999	14.39	Q	.	.	.	V.
31.583	5273.4941	13.69	Q	.	.	.	V.
31.667	5273.5835	13.01	Q	.	.	.	V.
31.750	5273.6685	12.32	Q	.	.	.	V.
31.833	5273.7485	11.64	Q	.	.	.	V.
31.917	5273.8242	10.97	Q	.	.	.	V.
32.000	5273.8950	10.30	Q	.	.	.	V.
32.083	5273.9614	9.64	Q	.	.	.	V.
32.167	5274.0234	8.99	Q	.	.	.	V.
32.250	5274.0811	8.34	Q	.	.	.	V.
32.333	5274.1343	7.69	Q	.	.	.	V.
32.417	5274.1826	7.05	Q	.	.	.	V.
32.500	5274.2266	6.42	Q	.	.	.	V.
32.583	5274.2666	5.78	Q	.	.	.	V.
32.667	5274.3022	5.15	Q	.	.	.	V.
32.750	5274.3335	4.53	Q	.	.	.	V.
32.833	5274.3604	3.91	Q	.	.	.	V.
32.917	5274.3828	3.29	Q	.	.	.	V.

33.000	5274.4014	2.68	Q	.	.	.	V.
33.083	5274.4155	2.07	Q	.	.	.	V.
33.167	5274.4258	1.46	Q	.	.	.	V.
33.250	5274.4316	0.86	Q	.	.	.	V.
33.333	5274.4336	0.26	Q	.	.	.	V

-----  
TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
(Note: 100% of Peak Flow Rate estimate assumed to have  
an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
=====	=====
0%	2000.0
10%	1385.0
20%	865.0
30%	545.0
40%	430.0
50%	360.0
60%	300.0
70%	245.0
80%	180.0
90%	130.0
=====	=====

END OF FLOODSCx ROUTING ANALYSIS



\*\*\*\*\*

FLOOD ROUTING ANALYSIS
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)
(c) Copyright 1989-2013 Advanced Engineering Software (aes)
Ver. 20.0 Release Date: 06/01/2013 License ID 1237

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*
\* RMV PA-3 ROMP AMENDMENT 2022 - NODE 134C \*
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*
\* 10-YR EV OCT 2022 ROKAMOTO \*

FILE NAME: EV1034CS.DAT
TIME/DATE OF STUDY: 10:48 10/25/2022

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 134.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<

=====

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 66607.102 ACRES
BASEFLOW = 0.000 CFS/SQUARE-MILE
\*USER ENTERED "LAG" TIME = 2.846 HOURS
VALLEY (DEVELOPED) S-GRAPH SELECTED
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.284
LOW LOSS FRACTION = 0.734
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.31
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.62
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 0.86
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 1.56
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 2.29
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 3.99

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:
5-MINUTE FACTOR = 0.293
30-MINUTE FACTOR = 0.352
1-HOUR FACTOR = 0.397
3-HOUR FACTOR = 0.740
6-HOUR FACTOR = 0.887
24-HOUR FACTOR = 0.933

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 2.928

UNIT HYDROGRAPH DETERMINATION

Table with 3 columns: INTERVAL NUMBER, "S" GRAPH MEAN VALUES, UNIT HYDROGRAPH ORDINATES (CFS). Rows 1-48.

49	78.894	10482.972
50	80.212	10613.261
51	81.582	11039.097
52	82.862	10305.669
53	84.075	9773.758
54	85.201	9069.829
55	86.251	8455.996
56	87.157	7298.084
57	88.024	6985.022
58	88.733	5711.694
59	89.422	5550.431
60	90.095	5421.494
61	90.716	4999.714
62	91.332	4966.097
63	91.944	4925.843
64	92.511	4571.174
65	93.069	4493.308
66	93.627	4491.895
67	94.120	3976.147
68	94.495	3016.987
69	94.867	2995.539
70	95.238	2995.539
71	95.610	2995.477
72	95.967	2877.357
73	96.219	2022.981
74	96.448	1851.024
75	96.678	1848.382
76	96.907	1848.320
77	97.137	1851.086
78	97.367	1851.024
79	97.596	1848.382
80	97.826	1851.024
81	98.008	1464.152
82	98.068	486.310
83	98.123	440.585
84	98.178	443.290
85	98.233	440.585
86	98.288	445.994
87	98.343	440.585
88	98.398	443.290
89	98.453	445.932
90	98.508	443.290
91	98.563	440.585
92	98.617	437.943
93	98.673	451.340
94	98.727	435.239
95	98.783	445.932
96	98.837	440.647
97	98.892	440.585
98	98.947	440.585
99	99.003	451.340
100	99.057	440.585
101	99.112	440.585
102	99.167	440.585
103	99.222	440.585
104	99.276	440.585
105	99.331	440.585
106	99.386	440.585

107	99.440	440.585
108	99.495	440.585
109	99.550	440.585
110	99.604	440.585
111	99.659	440.585
112	99.714	440.585
113	99.769	440.585
114	99.823	440.585
115	99.878	440.585
116	99.933	440.585
117	99.987	440.585
118	100.000	102.387

-----  
TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 14727.7451  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 5924.8672  
-----

2 4 - 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 FIVE-MINUTE UNIT INTERVALS (CFS)

(Note: Time indicated is at END of Each Unit Intervals)

TIME (HRS)	VOLUME (AF)	Q (CFS)	0.	1900.0	3800.0	5700.0	7600.0
0.083	0.0140	2.03	Q	.	.	.	.
0.167	0.0560	6.10	Q	.	.	.	.
0.250	0.1262	10.19	Q	.	.	.	.
0.333	0.2245	14.28	Q	.	.	.	.
0.417	0.3512	18.39	Q	.	.	.	.
0.500	0.5062	22.51	Q	.	.	.	.
0.583	0.6973	27.75	Q	.	.	.	.
0.667	0.9315	34.01	Q	.	.	.	.
0.750	1.2091	40.30	Q	.	.	.	.
0.833	1.5302	46.63	Q	.	.	.	.
0.917	1.9161	56.03	Q	.	.	.	.
1.000	2.3815	67.58	Q	.	.	.	.
1.083	2.9381	80.82	Q	.	.	.	.
1.167	3.6011	96.26	Q	.	.	.	.
1.250	4.3907	114.65	Q	.	.	.	.
1.333	5.3087	133.30	Q	.	.	.	.
1.417	6.3520	151.48	Q	.	.	.	.
1.500	7.5248	170.29	Q	.	.	.	.
1.583	8.8731	195.78	VQ	.	.	.	.
1.667	10.3652	216.65	VQ	.	.	.	.
1.750	11.9925	236.28	VQ	.	.	.	.
1.833	13.7689	257.93	VQ	.	.	.	.
1.917	15.7267	284.28	VQ	.	.	.	.
2.000	17.8564	309.23	VQ	.	.	.	.
2.083	20.1326	330.50	VQ	.	.	.	.
2.167	22.5672	353.51	VQ	.	.	.	.
2.250	25.1916	381.06	V Q	.	.	.	.
2.333	28.0118	409.48	V Q	.	.	.	.
2.417	31.0533	441.64	V Q	.	.	.	.
2.500	34.2543	464.79	V Q	.	.	.	.
2.583	37.6655	495.30	V Q	.	.	.	.
2.667	41.3147	529.87	V Q	.	.	.	.
2.750	45.1974	563.77	V Q	.	.	.	.
2.833	49.3312	600.22	V Q	.	.	.	.
2.917	53.7260	638.12	V Q	.	.	.	.
3.000	58.3140	666.17	V Q	.	.	.	.
3.083	63.0877	693.14	V Q	.	.	.	.
3.167	68.0543	721.15	V Q	.	.	.	.
3.250	73.2486	754.22	V Q	.	.	.	.
3.333	78.7057	792.37	V Q	.	.	.	.
3.417	84.3743	823.09	V Q	.	.	.	.
3.500	90.2268	849.78	V Q	.	.	.	.
3.583	96.2741	878.07	V Q	.	.	.	.
3.667	102.5093	905.34	V Q	.	.	.	.
3.750	108.9139	929.95	V Q	.	.	.	.
3.833	115.4955	955.65	V Q	.	.	.	.
3.917	122.2384	979.07	V Q	.	.	.	.

4.000	129.1136	998.28	V Q	.	.	.	.
4.083	136.1203	1017.37	V Q	.	.	.	.
4.167	143.2600	1036.69	V Q	.	.	.	.
4.250	150.5380	1056.77	.V Q	.	.	.	.
4.333	157.9471	1075.79	.V Q	.	.	.	.
4.417	165.4823	1094.12	.V Q	.	.	.	.
4.500	173.1368	1111.43	.V Q	.	.	.	.
4.583	180.9049	1127.93	.V Q	.	.	.	.
4.667	188.7748	1142.71	.V Q	.	.	.	.
4.750	196.7441	1157.13	.V Q	.	.	.	.
4.833	204.7996	1169.66	.V Q	.	.	.	.
4.917	212.9404	1182.05	.V Q	.	.	.	.
5.000	221.1654	1194.27	.V Q	.	.	.	.
5.083	229.4709	1205.95	.V Q	.	.	.	.
5.167	237.8566	1217.61	.V Q	.	.	.	.
5.250	246.3229	1229.31	.V Q	.	.	.	.
5.333	254.8663	1240.49	.V Q	.	.	.	.
5.417	263.4866	1251.67	.V Q	.	.	.	.
5.500	272.1840	1262.86	.V Q	.	.	.	.
5.583	280.9539	1273.39	.V Q	.	.	.	.
5.667	289.7864	1282.48	.V Q	.	.	.	.
5.750	298.6821	1291.65	. V Q	.	.	.	.
5.833	307.6410	1300.83	. V Q	.	.	.	.
5.917	316.6639	1310.13	. V Q	.	.	.	.
6.000	325.7497	1319.25	. V Q	.	.	.	.
6.083	334.8902	1327.20	. V Q	.	.	.	.
6.167	344.0838	1334.90	. V Q	.	.	.	.
6.250	353.3311	1342.71	. V Q	.	.	.	.
6.333	362.6323	1350.53	. V Q	.	.	.	.
6.417	371.9881	1358.47	. V Q	.	.	.	.
6.500	381.3987	1366.41	. V Q	.	.	.	.
6.583	390.8647	1374.47	. V Q	.	.	.	.
6.667	400.3864	1382.55	. V Q	.	.	.	.
6.750	409.9605	1390.16	. V Q	.	.	.	.
6.833	419.5770	1396.31	. V Q	.	.	.	.
6.917	429.2361	1402.51	. V Q	.	.	.	.
7.000	438.9380	1408.72	. V Q	.	.	.	.
7.083	448.6835	1415.04	. V Q	.	.	.	.
7.167	458.4727	1421.39	. V Q	.	.	.	.
7.250	468.3063	1427.85	. V Q	.	.	.	.
7.333	478.1846	1434.32	. V Q	.	.	.	.
7.417	488.1083	1440.93	. V Q	.	.	.	.
7.500	498.0776	1447.54	. V Q	.	.	.	.
7.583	508.0934	1454.29	. V Q	.	.	.	.
7.667	518.1556	1461.04	. V Q	.	.	.	.
7.750	528.2654	1467.95	. V Q	.	.	.	.
7.833	538.4227	1474.84	. V Q	.	.	.	.
7.917	548.6287	1481.90	. V Q	.	.	.	.
8.000	558.8832	1488.96	. V Q	.	.	.	.
8.083	569.1875	1496.18	. V Q	.	.	.	.
8.167	579.5415	1503.40	. V Q	.	.	.	.
8.250	589.9464	1510.80	. V Q	.	.	.	.
8.333	600.4023	1518.19	. V Q	.	.	.	.
8.417	610.9102	1525.75	. V Q	.	.	.	.
8.500	621.4703	1533.32	. V Q	.	.	.	.
8.583	632.0836	1541.06	. V Q	.	.	.	.
8.667	642.7504	1548.82	. V Q	.	.	.	.
8.750	653.4719	1556.75	. V Q	.	.	.	.

8.833	664.2480	1564.70	. V Q .	.	.	.
8.917	675.0802	1572.83	. V Q .	.	.	.
9.000	685.9685	1580.98	. V Q .	.	.	.
9.083	696.9142	1589.32	. V Q .	.	.	.
9.167	707.9176	1597.69	. V Q .	.	.	.
9.250	718.9799	1606.25	. V Q .	.	.	.
9.333	730.1013	1614.83	. V Q .	.	.	.
9.417	741.2833	1623.62	. V Q .	.	.	.
9.500	752.5259	1632.43	. V Q .	.	.	.
9.583	763.8307	1641.46	. V Q .	.	.	.
9.667	775.1979	1650.52	. V Q .	.	.	.
9.750	786.6291	1659.80	. V Q .	.	.	.
9.833	798.1208	1668.60	. V Q .	.	.	.
9.917	809.6738	1677.48	. V Q .	.	.	.
10.000	821.2880	1686.39	. V Q .	.	.	.
10.083	832.9653	1695.55	. V Q .	.	.	.
10.167	844.7059	1704.73	. V Q .	.	.	.
10.250	856.5115	1714.18	. V Q .	.	.	.
10.333	868.3824	1723.66	. V Q .	.	.	.
10.417	880.3205	1733.40	. V Q .	.	.	.
10.500	892.3260	1743.19	. V Q .	.	.	.
10.583	904.4008	1753.26	. V Q .	.	.	.
10.667	916.5452	1763.38	. V Q .	.	.	.
10.750	928.7614	1773.78	. V Q .	.	.	.
10.833	941.0495	1784.24	. V Q .	.	.	.
10.917	953.4118	1795.00	. V Q .	.	.	.
11.000	965.8486	1805.83	. V Q .	.	.	.
11.083	978.3622	1816.97	. V Q .	.	.	.
11.167	990.9529	1828.18	. V Q .	.	.	.
11.250	1003.6232	1839.73	. V Q .	.	.	.
11.333	1016.3736	1851.35	. V Q .	.	.	.
11.417	1029.2064	1863.33	. V Q .	.	.	.
11.500	1042.1223	1875.38	. V Q .	.	.	.
11.583	1055.1238	1887.81	. V Q .	.	.	.
11.667	1068.2115	1900.34	. V Q .	.	.	.
11.750	1081.3882	1913.25	. V Q .	.	.	.
11.833	1094.6545	1926.27	. V Q .	.	.	.
11.917	1108.0134	1939.71	. V Q .	.	.	.
12.000	1121.4656	1953.26	. V Q .	.	.	.
12.083	1135.0400	1971.00	. V Q .	.	.	.
12.167	1148.7633	1992.61	. V Q .	.	.	.
12.250	1162.6383	2014.65	. V Q .	.	.	.
12.333	1176.6656	2036.78	. V Q .	.	.	.
12.417	1190.8486	2059.37	. V Q .	.	.	.
12.500	1205.1880	2082.07	. V Q .	.	.	.
12.583	1219.7010	2107.30	. V .Q	.	.	.
12.667	1234.4015	2134.51	. V .Q	.	.	.
12.750	1249.2928	2162.22	. V .Q	.	.	.
12.833	1264.3761	2190.08	. V .Q	.	.	.
12.917	1279.6936	2224.11	. V .Q	.	.	.
13.000	1295.2732	2262.16	. V .Q	.	.	.
13.083	1311.1394	2303.78	. V . Q	.	.	.
13.167	1327.3204	2349.48	. V . Q	.	.	.
13.250	1343.8564	2401.03	. V . Q	.	.	.
13.333	1360.7505	2453.01	. V . Q	.	.	.
13.417	1377.9994	2504.53	. V . Q	.	.	.
13.500	1395.6107	2557.17	. V . Q	.	.	.
13.583	1413.6725	2622.56	. V . Q	.	.	.

13.667	1432.1252	2679.34	. V . Q	.	.	.
13.750	1450.9558	2734.20	. V . Q	.	.	.
13.833	1470.1899	2792.80	. V . Q	.	.	.
13.917	1489.8904	2860.50	. V . Q	.	.	.
14.000	1510.0389	2925.57	. V . Q	.	.	.
14.083	1530.6393	2991.18	. V . Q	.	.	.
14.167	1551.7600	3066.72	. V . Q	.	.	.
14.250	1573.4578	3150.51	. V . Q	.	.	.
14.333	1595.7388	3235.20	. V . Q	.	.	.
14.417	1618.6488	3326.54	. V . Q	.	.	.
14.500	1642.0682	3400.50	. .V . Q	.	.	.
14.583	1666.1147	3491.56	. .V . Q	.	.	.
14.667	1690.8582	3592.74	. .V . Q	.	.	.
14.750	1716.2843	3691.88	. .V . Q	.	.	.
14.833	1742.4182	3794.64	. .V . Q	.	.	.
14.917	1769.3438	3909.60	. .V . Q	.	.	.
15.000	1796.9742	4011.94	. .V . Q	.	.	.
15.083	1825.3228	4116.20	. .V . Q	.	.	.
15.167	1854.4379	4227.51	. .V . Q	.	.	.
15.250	1884.4347	4355.54	. .V . Q	.	.	.
15.333	1915.3618	4490.62	. .V . Q	.	.	.
15.417	1947.0607	4602.68	. .V . Q	.	.	.
15.500	1979.4436	4702.00	. .V . Q	.	.	.
15.583	2012.6749	4825.18	. .V . Q	.	.	.
15.667	2046.6135	4927.89	. .V . Q	.	.	.
15.750	2081.1658	5017.00	. .V . Q	.	.	.
15.833	2116.3730	5112.09	. .V . Q	.	.	.
15.917	2152.2959	5216.00	. .V . Q	.	.	.
16.000	2188.8784	5311.79	. .V . Q	.	.	.
16.083	2226.5583	5471.12	. .V . Q	.	.	.
16.167	2265.2998	5625.25	. .V . Q	.	.	.
16.250	2304.5732	5702.52	. .V . Q	.	.	.
16.333	2344.3230	5771.65	. .V . Q	.	.	.
16.417	2384.6162	5850.59	. .V . Q	.	.	.
16.500	2425.2566	5901.00	. .V . Q	.	.	.
16.583	2466.6465	6009.82	. .V . Q	.	.	.
16.667	2508.8103	6122.20	. .V . Q	.	.	.
16.750	2551.4629	6193.16	. .V . Q	.	.	.
16.833	2594.7322	6282.69	. .V . Q	.	.	.
16.917	2639.3462	6477.97	. .V . Q	.	.	.
17.000	2684.9028	6614.83	. .V . Q	.	.	.
17.083	2731.2351	6727.44	. .V . Q	.	.	.
17.167	2778.4243	6851.87	. .V . Q	.	.	.
17.250	2826.6216	6998.23	. .V . Q	.	.	.
17.333	2875.2603	7062.33	. .V . Q	.	.	.
17.417	2924.1040	7092.11	. .V . Q	.	.	.
17.500	2973.4739	7168.52	. .V . Q	.	.	.
17.583	3024.6777	7434.80	. .V . Q	.	.	.
17.667	3074.6689	7258.71	. .V . Q	.	.	.
17.750	3124.4050	7221.70	. .V . Q	.	.	.
17.833	3175.0315	7350.97	. .V . Q	.	.	.
17.917	3226.9526	7538.95	. .V . Q	.	.	.
18.000	3278.1873	7439.28	. .V . Q	.	.	.
18.083	3328.2151	7264.02	. .V . Q	.	.	.
18.167	3378.6040	7316.45	. .V . Q	.	.	.
18.250	3430.0190	7465.46	. .V . Q	.	.	.
18.333	3481.5706	7485.29	. .V . Q	.	.	.
18.417	3533.7395	7574.92	. .V . Q	.	.	.

18.500	3583.4260	7214.48	.	.	.	V	.	Q	.
18.583	3634.8440	7465.88	.	.	.	V	.	Q.	.
18.667	3687.0051	7573.78	.	.	.	V	.	Q.	.
18.750	3738.9011	7535.31	.	.	.	V	.	Q.	.
18.833	3791.1489	7586.39	.	.	.	V	.	Q.	.
18.917	3843.0222	7532.01	.	.	.	V	.	Q.	.
19.000	3891.7449	7074.54	.	.	.	V	.	Q	.
19.083	3939.9971	7006.22	.	.	.	V	.	Q	.
19.167	3988.5293	7046.87	.	.	.	V	.	Q	.
19.250	4038.3059	7227.57	.	.	.	V	.	Q	.
19.333	4088.8794	7343.28	.	.	.	V	.	Q	.
19.417	4136.7759	6954.54	.	.	.	V	.	Q	.
19.500	4183.2881	6753.56	.	.	.	V	.	Q	.
19.583	4229.6558	6732.55	.	.	.	V	.	Q	.
19.667	4275.1978	6612.69	.	.	.	V	.	Q	.
19.750	4319.4834	6430.25	.	.	.	V	.	Q	.
19.833	4363.3130	6364.07	.	.	.	V	.	Q	.
19.917	4405.6230	6143.44	.	.	.	V	.	Q	.
20.000	4446.2715	5902.18	.	.	.	VQ	.		.
20.083	4486.4062	5827.56	.	.	.	Q	.		.
20.167	4526.1465	5770.28	.	.	.	Q	.		.
20.250	4565.3540	5692.94	.	.	.	QV	.		.
20.333	4603.3315	5514.34	.	.	.	Q.V	.		.
20.417	4640.2490	5360.42	.	.	.	Q.V	.		.
20.500	4676.2202	5223.03	.	.	.	Q.V	.		.
20.583	4711.1279	5068.58	.	.	.	Q.V	.		.
20.667	4744.7227	4877.93	.	.	.	Q	.	V	.
20.750	4777.3677	4740.07	.	.	.	Q	.	V	.
20.833	4808.5977	4534.58	.	.	.	Q	.	V	.
20.917	4838.9062	4400.84	.	.	.	Q	.	V	.
21.000	4868.5176	4299.54	.	.	.	Q	.	V	.
21.083	4897.3389	4184.82	.	.	.	Q	.	V	.
21.167	4925.4722	4084.97	.	.	.	Q	.	V	.
21.250	4952.8115	3969.71	.	.	.	Q	.	V	.
21.333	4979.1909	3830.32	.	.	.	Q	.	V	.
21.417	5004.8345	3723.47	.	.	.	Q	.	V	.
21.500	5029.8115	3626.68	.	.	.	Q	.	V	.
21.583	5053.8857	3495.57	.	.	.	Q	.	V	.
21.667	5076.9565	3349.89	.	.	.	Q	.	V	.
21.750	5099.4668	3268.47	.	.	.	Q	.	V	.
21.833	5121.4512	3192.13	.	.	.	Q	.	V	.
21.917	5142.9238	3117.83	.	.	.	Q	.	V	.
22.000	5163.8447	3037.73	.	.	.	Q	.	V	.
22.083	5183.9624	2921.12	.	.	.	Q	.	V	.
22.167	5203.5913	2850.09	.	.	.	Q	.	V	.
22.250	5222.7939	2788.19	.	.	.	Q	.	V	.
22.333	5241.5938	2729.70	.	.	.	Q	.	V	.
22.417	5259.9844	2670.34	.	.	.	Q	.	V	.
22.500	5277.9741	2612.09	.	.	.	Q	.	V	.
22.583	5295.5781	2556.09	.	.	.	Q	.	V	.
22.667	5312.8232	2504.01	.	.	.	Q	.	V	.
22.750	5329.5322	2426.14	.	.	.	Q	.	V	.
22.833	5345.5254	2322.22	.	.	.	Q	.	V	.
22.917	5361.2012	2276.15	.	.	.	Q	.	V	.
23.000	5376.5918	2234.68	.	.	.	Q	.	V	.
23.083	5391.7310	2198.20	.	.	.	Q	.	V	.
23.167	5406.6099	2160.41	.	.	.	Q	.	V	.
23.250	5421.2231	2121.85	.	.	.	Q	.	V	.

23.333	5435.5786	2084.40	.	.	.	Q	.	.	V	.
23.417	5449.6748	2046.75	.	.	.	Q	.	.	V	.
23.500	5463.5078	2008.56	.	.	.	Q	.	.	V	.
23.583	5477.0859	1971.55	.	.	.	Q	.	.	V	.
23.667	5490.4272	1937.16	.	.	.	Q	.	.	V	.
23.750	5503.5508	1905.57	.	.	.	Q	.	.	V	.
23.833	5516.4697	1875.83	.	.	.	Q.	.	.	V	.
23.917	5529.1958	1847.84	.	.	.	Q.	.	.	V	.
24.000	5541.7290	1819.81	.	.	.	Q.	.	.	V	.
24.083	5554.0781	1793.07	.	.	.	Q.	.	.	V	.
24.167	5566.2358	1765.32	.	.	.	Q.	.	.	V	.
24.250	5578.2104	1738.69	.	.	.	Q.	.	.	V	.
24.333	5589.9966	1711.34	.	.	.	Q.	.	.	V	.
24.417	5601.6021	1685.13	.	.	.	Q	.	.	V	.
24.500	5613.0308	1659.43	.	.	.	Q	.	.	V	.
24.583	5624.2783	1633.16	.	.	.	Q	.	.	V	.
24.667	5635.3413	1606.36	.	.	.	Q	.	.	V	.
24.750	5646.2300	1581.03	.	.	.	Q	.	.	V	.
24.833	5656.9668	1559.00	.	.	.	Q	.	.	V	.
24.917	5667.5347	1534.47	.	.	.	Q	.	.	V	.
25.000	5677.9229	1508.39	.	.	.	Q	.	.	V	.
25.083	5688.1230	1481.09	.	.	.	Q	.	.	V	.
25.167	5698.1313	1453.22	.	.	.	Q	.	.	V	.
25.250	5707.9321	1423.09	.	.	.	Q	.	.	V	.
25.333	5717.5259	1393.00	.	.	.	Q	.	.	V	.
25.417	5726.9175	1363.65	.	.	.	Q	.	.	V	.
25.500	5736.1064	1334.27	.	.	.	Q	.	.	V	.
25.583	5745.0493	1298.49	.	.	.	Q	.	.	V	.
25.667	5753.7754	1267.04	.	.	.	Q	.	.	V	.
25.750	5762.2812	1235.07	.	.	.	Q	.	.	V	.
25.833	5770.4258	1182.56	.	.	.	Q	.	.	V	.
25.917	5778.2827	1140.82	.	.	.	Q	.	.	V	.
26.000	5785.9082	1107.21	.	.	.	Q	.	.	V	.
26.083	5793.3320	1077.97	.	.	.	Q	.	.	V	.
26.167	5800.5381	1046.30	.	.	.	Q	.	.	V	.
26.250	5807.4937	1009.96	.	.	.	Q	.	.	V	.
26.333	5814.1938	972.88	.	.	.	Q	.	.	V	.
26.417	5820.6138	932.20	.	.	.	Q	.	.	V	.
26.500	5826.8164	900.65	.	.	.	Q	.	.	V	.
26.583	5832.7524	861.90	.	.	.	Q	.	.	V	.
26.667	5838.3945	819.24	.	.	.	Q	.	.	V	.
26.750	5843.7495	777.52	.	.	.	Q	.	.	V	.
26.833	5848.8130	735.24	.	.	.	Q	.	.	V	.
26.917	5853.5820	692.49	.	.	.	Q	.	.	V	.
27.000	5858.1274	660.00	.	.	.	Q	.	.	V	.
27.083	5862.4595	628.99	.	.	.	Q	.	.	V	.
27.167	5866.5728	597.25	.	.	.	Q	.	.	V	.
27.250	5870.4351	560.83	.	.	.	Q	.	.	V	.
27.333	5874.0142	519.69	.	.	.	Q	.	.	V	.
27.417	5877.3643	486.42	.	.	.	Q	.	.	V	.
27.500	5880.5151	457.49	.	.	.	Q	.	.	V	.
27.583	5883.4580	427.31	.	.	.	Q	.	.	V	.
27.667	5886.2021	398.42	.	.	.	Q	.	.	V	.
27.750	5888.7676	372.53	.	.	.	Q	.	.	V	.
27.833	5891.1558	346.74	.	.	.	Q	.	.	V	.
27.917	5893.3862	323.83	.	.	.	Q	.	.	V	.
28.000	5895.4893	305.36	.	.	.	Q	.	.	V	.
28.083	5897.4678	287.28	.	.	.	Q	.	.	V	.

28.167	5899.3213	269.14	.Q	.	.	.	V.
28.250	5901.0464	250.50	.Q	.	.	.	V.
28.333	5902.6519	233.11	.Q	.	.	.	V.
28.417	5904.1440	216.65	.Q	.	.	.	V.
28.500	5905.5308	201.38	.Q	.	.	.	V.
28.583	5906.8198	187.15	Q	.	.	.	V.
28.667	5908.0234	174.76	Q	.	.	.	V.
28.750	5909.1455	162.95	Q	.	.	.	V.
28.833	5910.2002	153.14	Q	.	.	.	V.
28.917	5911.1895	143.65	Q	.	.	.	V.
29.000	5912.1152	134.42	Q	.	.	.	V.
29.083	5912.9824	125.90	Q	.	.	.	V.
29.167	5913.7915	117.50	Q	.	.	.	V.
29.250	5914.5439	109.22	Q	.	.	.	V.
29.333	5915.2432	101.54	Q	.	.	.	V.
29.417	5915.8906	94.03	Q	.	.	.	V.
29.500	5916.4868	86.58	Q	.	.	.	V.
29.583	5917.0376	79.96	Q	.	.	.	V.
29.667	5917.5527	74.83	Q	.	.	.	V.
29.750	5918.0332	69.77	Q	.	.	.	V.
29.833	5918.4790	64.75	Q	.	.	.	V.
29.917	5918.8906	59.77	Q	.	.	.	V.
30.000	5919.2695	55.00	Q	.	.	.	V.
30.083	5919.6245	51.55	Q	.	.	.	V.
30.167	5919.9575	48.38	Q	.	.	.	V.
30.250	5920.2690	45.25	Q	.	.	.	V.
30.333	5920.5591	42.13	Q	.	.	.	V.
30.417	5920.8281	39.04	Q	.	.	.	V.
30.500	5921.0757	35.97	Q	.	.	.	V.
30.583	5921.3022	32.92	Q	.	.	.	V.
30.667	5921.5083	29.90	Q	.	.	.	V.
30.750	5921.6973	27.47	Q	.	.	.	V.
30.833	5921.8799	26.54	Q	.	.	.	V.
30.917	5922.0566	25.68	Q	.	.	.	V.
31.000	5922.2275	24.83	Q	.	.	.	V.
31.083	5922.3926	23.98	Q	.	.	.	V.
31.167	5922.5518	23.14	Q	.	.	.	V.
31.250	5922.7056	22.31	Q	.	.	.	V.
31.333	5922.8535	21.49	Q	.	.	.	V.
31.417	5922.9961	20.67	Q	.	.	.	V.
31.500	5923.1328	19.86	Q	.	.	.	V.
31.583	5923.2642	19.06	Q	.	.	.	V.
31.667	5923.3901	18.27	Q	.	.	.	V.
31.750	5923.5103	17.47	Q	.	.	.	V.
31.833	5923.6250	16.69	Q	.	.	.	V.
31.917	5923.7344	15.91	Q	.	.	.	V.
32.000	5923.8389	15.14	Q	.	.	.	V.
32.083	5923.9380	14.38	Q	.	.	.	V.
32.167	5924.0317	13.62	Q	.	.	.	V.
32.250	5924.1201	12.85	Q	.	.	.	V.
32.333	5924.2036	12.11	Q	.	.	.	V.
32.417	5924.2817	11.36	Q	.	.	.	V.
32.500	5924.3550	10.63	Q	.	.	.	V.
32.583	5924.4233	9.90	Q	.	.	.	V.
32.667	5924.4863	9.17	Q	.	.	.	V.
32.750	5924.5444	8.45	Q	.	.	.	V.
32.833	5924.5977	7.74	Q	.	.	.	V.
32.917	5924.6460	7.02	Q	.	.	.	V.

33.000	5924.6895	6.32	Q	.	.	.	V.
33.083	5924.7280	5.62	Q	.	.	.	V.
33.167	5924.7617	4.92	Q	.	.	.	V.
33.250	5924.7910	4.23	Q	.	.	.	V.
33.333	5924.8154	3.54	Q	.	.	.	V.
33.417	5924.8350	2.85	Q	.	.	.	V.
33.500	5924.8501	2.17	Q	.	.	.	V.
33.583	5924.8604	1.50	Q	.	.	.	V.
33.667	5924.8662	0.82	Q	.	.	.	V.
33.750	5924.8672	0.16	Q	.	.	.	V.

-----  
TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
(Note: 100% of Peak Flow Rate estimate assumed to have  
an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
=====	=====
0%	2025.0
10%	1410.0
20%	1000.0
30%	595.0
40%	475.0
50%	395.0
60%	325.0
70%	270.0
80%	200.0
90%	140.0
=====	=====

END OF FLOODSCx ROUTING ANALYSIS

\*\*\*\*\*

FLOOD ROUTING ANALYSIS  
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)  
(c) Copyright 1989-2013 Advanced Engineering Software (aes)  
Ver. 20.0 Release Date: 06/01/2013 License ID 1237

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*  
\* RMV PA-3 ROMP AMENDMENT 2022 - NODE 134T \*  
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*  
\* 10-YR EV OCT 2022 ROKAMOTO \*  
\*\*\*\*\*

FILE NAME: EV1034TS.DAT  
TIME/DATE OF STUDY: 10:47 10/25/2022

\*\*\*\*\*

FLOW PROCESS FROM NODE 13500.00 TO NODE 134.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<

=====

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 3859.700 ACRES  
BASEFLOW = 0.000 CFS/SQUARE-MILE  
\*USER ENTERED "LAG" TIME = 1.489 HOURS  
VALLEY (DEVELOPED) S-GRAPH SELECTED  
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.284  
LOW LOSS FRACTION = 0.760  
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.26  
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.59  
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 0.78  
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 1.31  
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 1.81  
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 3.03

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:  
5-MINUTE FACTOR = 0.828  
30-MINUTE FACTOR = 0.828  
1-HOUR FACTOR = 0.828  
3-HOUR FACTOR = 0.974  
6-HOUR FACTOR = 0.987  
24-HOUR FACTOR = 0.992

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES  
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 5.597

===== UNIT HYDROGRAPH DETERMINATION =====

INTERVAL NUMBER	"S" GRAPH MEAN VALUES	UNIT HYDROGRAPH ORDINATES (CFS)
1	0.320	149.280
2	0.959	298.559
3	1.599	298.559
4	2.366	357.932
5	3.336	453.075
6	4.584	582.097
7	6.500	894.625
8	9.057	1193.403
9	11.911	1332.098
10	15.115	1495.822
11	18.408	1536.896
12	21.810	1588.237
13	25.547	1744.283
14	29.058	1639.011
15	33.372	2013.783
16	37.479	1917.036
17	42.372	2283.987
18	47.656	2466.089
19	52.569	2293.323
20	56.570	1867.605
21	61.560	2329.397
22	66.023	2083.366
23	69.956	1835.759
24	73.512	1659.907
25	76.697	1486.808
26	79.208	1172.145
27	81.768	1194.912
28	84.134	1104.499
29	86.204	966.200
30	87.909	795.480
31	89.282	640.889
32	90.535	585.216
33	91.710	548.282
34	92.807	512.075
35	93.847	485.643
36	94.626	363.513
37	95.337	331.746
38	96.004	311.301
39	96.468	216.899
40	96.907	204.848
41	97.346	204.848
42	97.785	205.008
43	98.053	125.189
44	98.159	49.195
45	98.264	48.871
46	98.368	48.868
47	98.473	48.871
48	98.578	49.032

49	98.683	49.035
50	98.788	49.032
51	98.893	48.871
52	98.998	49.032
53	99.103	49.032
54	99.208	49.032
55	99.313	49.032
56	99.418	49.032
57	99.523	49.032
58	99.628	49.032
59	99.733	49.032
60	99.838	49.032
61	99.943	49.032
62	100.000	26.528

-----  
TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 660.5923  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 306.2667  
-----

=====  
2 4 - 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 FIVE-MINUTE UNIT INTERVALS (CFS)  
(Note: Time indicated is at END of Each Unit Intervals)

TIME (HRS)	VOLUME (AF)	Q (CFS)	0.	275.0	550.0	825.0	1100.0
0.083	0.0010	0.14	Q	.	.	.	.
0.167	0.0039	0.42	Q	.	.	.	.
0.250	0.0087	0.70	Q	.	.	.	.
0.333	0.0159	1.04	Q	.	.	.	.
0.417	0.0261	1.47	Q	.	.	.	.
0.500	0.0400	2.03	Q	.	.	.	.
0.583	0.0598	2.87	Q	.	.	.	.
0.667	0.0874	4.01	Q	.	.	.	.
0.750	0.1237	5.27	Q	.	.	.	.
0.833	0.1699	6.70	Q	.	.	.	.
0.917	0.2261	8.17	Q	.	.	.	.
1.000	0.2929	9.69	Q	.	.	.	.
1.083	0.3711	11.36	Q	.	.	.	.
1.167	0.4603	12.94	Q	.	.	.	.
1.250	0.5628	14.88	Q	.	.	.	.
1.333	0.6781	16.74	Q	.	.	.	.
1.417	0.8085	18.94	Q	.	.	.	.
1.500	0.9554	21.33	Q	.	.	.	.
1.583	1.1177	23.56	Q	.	.	.	.
1.667	1.2926	25.39	Q	.	.	.	.
1.750	1.4831	27.67	VQ	.	.	.	.
1.833	1.6879	29.73	VQ	.	.	.	.
1.917	1.9052	31.56	VQ	.	.	.	.
2.000	2.1341	33.23	VQ	.	.	.	.
2.083	2.3733	34.74	VQ	.	.	.	.
2.167	2.6210	35.96	VQ	.	.	.	.
2.250	2.8773	37.21	VQ	.	.	.	.
2.333	3.1416	38.38	VQ	.	.	.	.
2.417	3.4131	39.42	VQ	.	.	.	.
2.500	3.6907	40.31	VQ	.	.	.	.
2.583	3.9734	41.05	VQ	.	.	.	.
2.667	4.2609	41.75	VQ	.	.	.	.
2.750	4.5530	42.41	VQ	.	.	.	.
2.833	4.8495	43.04	VQ	.	.	.	.
2.917	5.1501	43.66	VQ	.	.	.	.
3.000	5.4542	44.15	VQ	.	.	.	.
3.083	5.7616	44.63	VQ	.	.	.	.
3.167	6.0720	45.08	VQ	.	.	.	.
3.250	6.3851	45.45	VQ	.	.	.	.
3.333	6.7005	45.81	VQ	.	.	.	.
3.417	7.0185	46.17	VQ	.	.	.	.
3.500	7.3390	46.53	VQ	.	.	.	.
3.583	7.6615	46.83	.Q	.	.	.	.
3.667	7.9855	47.05	.Q	.	.	.	.
3.750	8.3111	47.27	.Q	.	.	.	.
3.833	8.6382	47.50	.Q	.	.	.	.
3.917	8.9668	47.72	.Q	.	.	.	.



4.000	9.2971	47.95	.Q	.	.	.	.
4.083	9.6289	48.18	.Q	.	.	.	.
4.167	9.9624	48.42	.Q	.	.	.	.
4.250	10.2974	48.65	.Q	.	.	.	.
4.333	10.6341	48.89	.Q	.	.	.	.
4.417	10.9725	49.13	.Q	.	.	.	.
4.500	11.3125	49.37	.Q	.	.	.	.
4.583	11.6542	49.62	.Q	.	.	.	.
4.667	11.9976	49.86	.Q	.	.	.	.
4.750	12.3427	50.11	.Q	.	.	.	.
4.833	12.6896	50.36	.Q	.	.	.	.
4.917	13.0381	50.61	.Q	.	.	.	.
5.000	13.3885	50.87	.Q	.	.	.	.
5.083	13.7406	51.13	.Q	.	.	.	.
5.167	14.0943	51.37	.Q	.	.	.	.
5.250	14.4496	51.58	.Q	.	.	.	.
5.333	14.8063	51.80	.Q	.	.	.	.
5.417	15.1646	52.02	.Q	.	.	.	.
5.500	15.5245	52.25	.QV	.	.	.	.
5.583	15.8859	52.47	.QV	.	.	.	.
5.667	16.2488	52.70	.QV	.	.	.	.
5.750	16.6134	52.94	.QV	.	.	.	.
5.833	16.9796	53.17	.QV	.	.	.	.
5.917	17.3474	53.41	.QV	.	.	.	.
6.000	17.7168	53.64	.QV	.	.	.	.
6.083	18.0880	53.89	.QV	.	.	.	.
6.167	18.4608	54.13	.QV	.	.	.	.
6.250	18.8353	54.38	.QV	.	.	.	.
6.333	19.2116	54.63	.QV	.	.	.	.
6.417	19.5896	54.89	.QV	.	.	.	.
6.500	19.9694	55.15	.Q	.	.	.	.
6.583	20.3510	55.41	.Q	.	.	.	.
6.667	20.7344	55.67	.Q	.	.	.	.
6.750	21.1197	55.94	.Q	.	.	.	.
6.833	21.5068	56.21	.Q	.	.	.	.
6.917	21.8958	56.49	.Q	.	.	.	.
7.000	22.2867	56.76	.Q	.	.	.	.
7.083	22.6796	57.05	.Q	.	.	.	.
7.167	23.0744	57.33	.QV	.	.	.	.
7.250	23.4713	57.62	.QV	.	.	.	.
7.333	23.8701	57.91	.QV	.	.	.	.
7.417	24.2710	58.21	.QV	.	.	.	.
7.500	24.6739	58.51	.QV	.	.	.	.
7.583	25.0790	58.81	.QV	.	.	.	.
7.667	25.4862	59.12	.QV	.	.	.	.
7.750	25.8955	59.44	.QV	.	.	.	.
7.833	26.3070	59.75	.QV	.	.	.	.
7.917	26.7208	60.08	.QV	.	.	.	.
8.000	27.1368	60.40	.QV	.	.	.	.
8.083	27.5550	60.73	.QV	.	.	.	.
8.167	27.9756	61.07	.QV	.	.	.	.
8.250	28.3986	61.41	.QV	.	.	.	.
8.333	28.8239	61.76	.QV	.	.	.	.
8.417	29.2516	62.11	.QV	.	.	.	.
8.500	29.6818	62.46	.QV	.	.	.	.
8.583	30.1145	62.83	.QV	.	.	.	.
8.667	30.5498	63.19	.QV	.	.	.	.
8.750	30.9876	63.57	.Q V	.	.	.	.

8.833	31.4280	63.95	. Q V	.	.	.	.
8.917	31.8710	64.33	. Q V	.	.	.	.
9.000	32.3168	64.72	. Q V	.	.	.	.
9.083	32.7653	65.12	. Q V	.	.	.	.
9.167	33.2165	65.52	. Q V	.	.	.	.
9.250	33.6707	65.94	. Q V	.	.	.	.
9.333	34.1276	66.35	. Q V	.	.	.	.
9.417	34.5875	66.78	. Q V	.	.	.	.
9.500	35.0504	67.21	. Q V	.	.	.	.
9.583	35.5163	67.65	. Q V	.	.	.	.
9.667	35.9853	68.09	. Q V	.	.	.	.
9.750	36.4574	68.55	. Q V	.	.	.	.
9.833	36.9327	69.01	. Q V	.	.	.	.
9.917	37.4112	69.48	. Q V	.	.	.	.
10.000	37.8930	69.96	. Q V	.	.	.	.
10.083	38.3782	70.45	. Q V	.	.	.	.
10.167	38.8668	70.95	. Q V	.	.	.	.
10.250	39.3590	71.46	. Q V	.	.	.	.
10.333	39.8546	71.97	. Q V	.	.	.	.
10.417	40.3539	72.50	. Q V	.	.	.	.
10.500	40.8569	73.03	. Q V	.	.	.	.
10.583	41.3636	73.58	. Q V	.	.	.	.
10.667	41.8742	74.13	. Q V	.	.	.	.
10.750	42.3887	74.71	. Q V	.	.	.	.
10.833	42.9072	75.28	. Q V	.	.	.	.
10.917	43.4298	75.88	. Q V	.	.	.	.
11.000	43.9565	76.48	. Q V	.	.	.	.
11.083	44.4875	77.10	. Q V	.	.	.	.
11.167	45.0229	77.73	. Q V	.	.	.	.
11.250	45.5627	78.38	. Q V	.	.	.	.
11.333	46.1070	79.04	. Q V	.	.	.	.
11.417	46.6560	79.71	. Q V	.	.	.	.
11.500	47.2097	80.40	. Q V	.	.	.	.
11.583	47.7683	81.11	. Q V	.	.	.	.
11.667	48.3319	81.83	. Q V	.	.	.	.
11.750	48.9005	82.57	. Q V	.	.	.	.
11.833	49.4744	83.32	. Q V	.	.	.	.
11.917	50.0536	84.10	. Q V	.	.	.	.
12.000	50.6383	84.89	. Q V	.	.	.	.
12.083	51.2293	85.81	. Q V	.	.	.	.
12.167	51.8273	86.84	. Q V	.	.	.	.
12.250	52.4327	87.90	. Q V	.	.	.	.
12.333	53.0457	89.01	. Q V	.	.	.	.
12.417	53.6671	90.22	. Q V	.	.	.	.
12.500	54.2975	91.53	. Q V	.	.	.	.
12.583	54.9386	93.08	. Q V	.	.	.	.
12.667	55.5918	94.85	. Q V	.	.	.	.
12.750	56.2581	96.75	. Q V	.	.	.	.
12.833	56.9384	98.78	. Q V	.	.	.	.
12.917	57.6332	100.88	. Q V	.	.	.	.
13.000	58.3428	103.04	. Q V	.	.	.	.
13.083	59.0684	105.35	. Q V	.	.	.	.
13.167	59.8095	107.62	. Q V	.	.	.	.
13.250	60.5684	110.19	. Q V	.	.	.	.
13.333	61.3448	112.73	. Q V	.	.	.	.
13.417	62.1407	115.57	. Q V	.	.	.	.
13.500	62.9572	118.56	. Q V	.	.	.	.
13.583	63.7941	121.51	. Q V	.	.	.	.

13.667	64.6496	124.22	. Q	V .	.	.	.
13.750	65.5263	127.30	. Q	V .	.	.	.
13.833	66.4235	130.27	. Q	V .	.	.	.
13.917	67.3406	133.16	. Q	V .	.	.	.
14.000	68.2772	135.99	. Q	V .	.	.	.
14.083	69.2342	138.96	. Q	V.	.	.	.
14.167	70.2118	141.96	. Q	V.	.	.	.
14.250	71.2109	145.07	. Q	V.	.	.	.
14.333	72.2320	148.25	. Q	V.	.	.	.
14.417	73.2758	151.57	. Q	V.	.	.	.
14.500	74.3433	155.00	. Q	V.	.	.	.
14.583	75.4371	158.81	. Q	V.	.	.	.
14.667	76.5598	163.02	. Q	V.	.	.	.
14.750	77.7134	167.51	. Q	V	.	.	.
14.833	78.8997	172.25	. Q	V	.	.	.
14.917	80.1202	177.21	. Q	V	.	.	.
15.000	81.3754	182.25	. Q	V	.	.	.
15.083	82.6678	187.67	. Q	V	.	.	.
15.167	83.9976	193.09	. Q	V	.	.	.
15.250	85.3690	199.13	. Q	.V	.	.	.
15.333	86.7830	205.32	. Q	.V	.	.	.
15.417	88.2419	211.82	. Q	.V	.	.	.
15.500	89.7452	218.28	. Q	.V	.	.	.
15.583	91.2943	224.94	. Q	.V	.	.	.
15.667	92.8871	231.28	. Q	. V	.	.	.
15.750	94.5371	239.58	. Q	. V	.	.	.
15.833	96.2559	249.56	. Q	. V	.	.	.
15.917	98.0603	261.99	. Q	. V	.	.	.
16.000	99.9861	279.64	. Q	V	.	.	.
16.083	102.2002	321.48	. Q	V	.	.	.
16.167	104.6851	360.81	. Q	V	.	.	.
16.250	107.2954	379.01	. Q	V	.	.	.
16.333	110.1196	410.08	. Q	V	.	.	.
16.417	113.2478	454.21	. V	Q	.	.	.
16.500	116.7786	512.67	. V	Q	.	.	.
16.583	120.8959	597.84	. V	.Q	.	.	.
16.667	125.5490	675.63	. V	Q	.	.	.
16.750	130.5166	721.30	. V	Q	.	.	.
16.833	135.7562	760.78	. V	Q	.	.	.
16.917	141.1480	782.89	. V	Q	.	.	.
17.000	146.6966	805.66	. V.	Q.	.	.	.
17.083	152.5096	844.05	. V.	Q	.	.	.
17.167	158.3651	850.22	. V	Q	.	.	.
17.250	164.7322	924.50	. V	Q	.	.	.
17.333	171.1456	931.22	. V	Q	.	.	.
17.417	178.0260	999.03	. V	Q	.	.	.
17.500	185.0560	1020.77	. V	Q	.	.	.
17.583	191.7929	978.19	. V	Q	.	.	.
17.667	198.0139	903.29	. V	Q	.	.	.
17.750	204.5797	953.36	. V	Q	.	.	.
17.833	210.7119	890.39	. V	Q	.	.	.
17.917	216.3439	817.78	. VQ.	.	.	.	.
18.000	221.5442	755.07	. QV	.	.	.	.
18.083	226.3447	697.04	. Q	V.	.	.	.
18.167	230.6412	623.85	. Q	V	.	.	.
18.250	234.7860	601.82	. Q	V	.	.	.
18.333	238.6652	563.26	. Q	.V	.	.	.
18.417	242.2030	513.69	. Q	.V	.	.	.

18.500	245.3708	459.97	. Q	.	. V	.	.
18.583	248.2297	415.11	. Q	.	. V	.	.
18.667	250.9109	389.31	. Q	.	. V	.	.
18.750	253.4454	368.02	. Q	.	. V	.	.
18.833	255.8301	346.26	. Q	.	. V	.	.
18.917	258.0633	324.25	. Q	.	. V	.	.
19.000	260.0611	290.08	. Q	.	. V	.	.
19.083	261.9247	270.59	. Q	.	. V	.	.
19.167	263.6761	254.31	. Q	.	. V	.	.
19.250	265.2491	228.41	. Q	.	. V	.	.
19.333	266.7363	215.93	. Q	.	. V	.	.
19.417	268.1537	205.81	. Q	.	. V	.	.
19.500	269.4864	193.51	. Q	.	. V	.	.
19.583	270.6511	169.12	. Q	.	. V	.	.
19.667	271.6727	148.33	. Q	.	. V	.	.
19.750	272.6472	141.50	. Q	.	. V	.	.
19.833	273.5884	136.66	. Q	.	. V	.	.
19.917	274.4977	132.04	. Q	.	. V	.	.
20.000	275.3774	127.73	. Q	.	. V	.	.
20.083	276.2303	123.85	. Q	.	. V	.	.
20.167	277.0592	120.35	. Q	.	. V	.	.
20.250	277.8655	117.07	. Q	.	. V	.	.
20.333	278.6508	114.04	. Q	.	. V	.	.
20.417	279.4164	111.16	. Q	.	. V	.	.
20.500	280.1639	108.54	. Q	.	. V	.	.
20.583	280.8959	106.28	. Q	.	. V	.	.
20.667	281.6135	104.20	. Q	.	. V	.	.
20.750	282.3173	102.19	. Q	.	. V	.	.
20.833	283.0066	100.08	. Q	.	. V	.	.
20.917	283.6796	97.72	. Q	.	. V	.	.
21.000	284.3339	95.01	. Q	.	. V	.	.
21.083	284.9639	91.48	. Q	.	. V	.	.
21.167	285.5454	84.44	. Q	.	. V	.	.
21.250	286.0802	77.65	. Q	.	. V	.	.
21.333	286.6017	75.72	. Q	.	. V	.	.
21.417	287.1138	74.36	. Q	.	. V	.	.
21.500	287.6167	73.01	. Q	.	. V	.	.
21.583	288.1105	71.71	. Q	.	. V	.	.
21.667	288.5964	70.55	. Q	.	. V	.	.
21.750	289.0746	69.44	. Q	.	. V	.	.
21.833	289.5456	68.38	. Q	.	. V	.	.
21.917	290.0095	67.36	. Q	.	. V	.	.
22.000	290.4666	66.38	. Q	.	. V	.	.
22.083	290.9172	65.43	. Q	.	. V	.	.
22.167	291.3616	64.54	. Q	.	. V	.	.
22.250	291.8004	63.71	. Q	.	. V	.	.
22.333	292.2336	62.90	. Q	.	. V	.	.
22.417	292.6615	62.13	. Q	.	. V	.	.
22.500	293.0842	61.38	. Q	.	. V	.	.
22.583	293.5019	60.65	. Q	.	. V	.	.
22.667	293.9147	59.94	. Q	.	. V	.	.
22.750	294.3228	59.26	. Q	.	. V	.	.
22.833	294.7264	58.59	. Q	.	. V	.	.
22.917	295.1255	57.95	. Q	.	. V	.	.
23.000	295.5202	57.32	. Q	.	. V	.	.
23.083	295.9107	56.71	. Q	.	. V	.	.
23.167	296.2973	56.12	. Q	.	. V	.	.
23.250	296.6800	55.57	. Q	.	. V	.	.

23.333	297.0591	55.04	. Q	.	.	.	V .
23.417	297.4346	54.52	.Q	.	.	.	V .
23.500	297.8065	54.01	.Q	.	.	.	V .
23.583	298.1751	53.52	.Q	.	.	.	V .
23.667	298.5403	53.03	.Q	.	.	.	V .
23.750	298.9023	52.56	.Q	.	.	.	V .
23.833	299.2612	52.10	.Q	.	.	.	V .
23.917	299.6169	51.65	.Q	.	.	.	V .
24.000	299.9696	51.21	.Q	.	.	.	V .
24.083	300.3184	50.64	.Q	.	.	.	V .
24.167	300.6623	49.94	.Q	.	.	.	V .
24.250	301.0015	49.25	.Q	.	.	.	V .
24.333	301.3357	48.52	.Q	.	.	.	V .
24.417	301.6642	47.71	.Q	.	.	.	V .
24.500	301.9865	46.78	.Q	.	.	.	V .
24.583	302.3004	45.58	.Q	.	.	.	V .
24.667	302.6041	44.11	.Q	.	.	.	V .
24.750	302.8969	42.52	.Q	.	.	.	V .
24.833	303.1779	40.79	.Q	.	.	.	V .
24.917	303.4467	39.04	.Q	.	.	.	V .
25.000	303.7033	37.25	.Q	.	.	.	V .
25.083	303.9467	35.34	.Q	.	.	.	V .
25.167	304.1776	33.54	.Q	.	.	.	V .
25.250	304.3939	31.40	.Q	.	.	.	V .
25.333	304.5961	29.37	.Q	.	.	.	V .
25.417	304.7821	27.01	Q	.	.	.	V .
25.500	304.9508	24.50	Q	.	.	.	V .
25.583	305.1035	22.17	Q	.	.	.	V .
25.667	305.2430	20.25	Q	.	.	.	V .
25.750	305.3664	17.92	Q	.	.	.	V .
25.833	305.4754	15.83	Q	.	.	.	V .
25.917	305.5718	13.99	Q	.	.	.	V .
26.000	305.6567	12.34	Q	.	.	.	V .
26.083	305.7315	10.85	Q	.	.	.	V .
26.167	305.7981	9.67	Q	.	.	.	V .
26.250	305.8565	8.48	Q	.	.	.	V .
26.333	305.9073	7.38	Q	.	.	.	V .
26.417	305.9516	6.42	Q	.	.	.	V .
26.500	305.9903	5.63	Q	.	.	.	V .
26.583	306.0247	4.99	Q	.	.	.	V .
26.667	306.0550	4.40	Q	.	.	.	V .
26.750	306.0815	3.85	Q	.	.	.	V .
26.833	306.1046	3.35	Q	.	.	.	V .
26.917	306.1243	2.87	Q	.	.	.	V .
27.000	306.1415	2.50	Q	.	.	.	V .
27.083	306.1565	2.17	Q	.	.	.	V .
27.167	306.1694	1.87	Q	.	.	.	V .
27.250	306.1807	1.65	Q	.	.	.	V .
27.333	306.1907	1.44	Q	.	.	.	V .
27.417	306.1992	1.24	Q	.	.	.	V .
27.500	306.2064	1.04	Q	.	.	.	V .
27.583	306.2127	0.91	Q	.	.	.	V .
27.667	306.2186	0.86	Q	.	.	.	V .
27.750	306.2242	0.81	Q	.	.	.	V .
27.833	306.2294	0.76	Q	.	.	.	V .
27.917	306.2343	0.71	Q	.	.	.	V .
28.000	306.2388	0.66	Q	.	.	.	V .
28.083	306.2430	0.61	Q	.	.	.	V .

28.167	306.2468	0.55	Q	.	.	.	V .
28.250	306.2503	0.51	Q	.	.	.	V .
28.333	306.2534	0.46	Q	.	.	.	V .
28.417	306.2562	0.41	Q	.	.	.	V .
28.500	306.2587	0.36	Q	.	.	.	V .
28.583	306.2608	0.31	Q	.	.	.	V .
28.667	306.2626	0.26	Q	.	.	.	V .
28.750	306.2641	0.21	Q	.	.	.	V .
28.833	306.2652	0.17	Q	.	.	.	V .
28.917	306.2661	0.12	Q	.	.	.	V .
29.000	306.2665	0.07	Q	.	.	.	V .
29.083	306.2667	0.03	Q	.	.	.	V .

-----  
TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
(Note: 100% of Peak Flow Rate estimate assumed to have  
an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
=====	=====
0%	1745.0
10%	470.0
20%	250.0
30%	175.0
40%	140.0
50%	120.0
60%	95.0
70%	80.0
80%	55.0
90%	30.0

=====

END OF FLOODSCx ROUTING ANALYSIS

\*\*\*\*\*

FLOOD ROUTING ANALYSIS
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)
(c) Copyright 1989-2013 Advanced Engineering Software (aes)
Ver. 20.0 Release Date: 06/01/2013 License ID 1237

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*
\* RMV PA-3 ROMP AMENDMENT 2022 - NODE 134U \*
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*
\* 10-YR EV OCT 2022 ROKAMOTO \*

FILE NAME: EV1034US.DAT
TIME/DATE OF STUDY: 10:48 10/25/2022

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 134.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<

=====

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 62747.398 ACRES
BASEFLOW = 0.000 CFS/SQUARE-MILE
\*USER ENTERED "LAG" TIME = 2.846 HOURS
VALLEY (DEVELOPED) S-GRAPH SELECTED
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.284
LOW LOSS FRACTION = 0.732
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.31
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.62
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 0.86
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 1.58
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 2.31
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 4.05

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:
5-MINUTE FACTOR = 0.304
30-MINUTE FACTOR = 0.358
1-HOUR FACTOR = 0.405
3-HOUR FACTOR = 0.750
6-HOUR FACTOR = 0.890
24-HOUR FACTOR = 0.936

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 2.928

UNIT HYDROGRAPH DETERMINATION

Table with 3 columns: INTERVAL NUMBER, "S" GRAPH MEAN VALUES, UNIT HYDROGRAPH ORDINATES (CFS). Rows 1-48.

49	78.894	9875.512
50	80.212	9998.251
51	81.582	10399.410
52	82.862	9708.482
53	84.075	9207.395
54	85.201	8544.257
55	86.251	7965.994
56	87.157	6875.180
57	88.024	6580.258
58	88.733	5380.716
59	89.422	5228.798
60	90.095	5107.333
61	90.716	4709.994
62	91.332	4678.325
63	91.944	4640.403
64	92.511	4306.287
65	93.069	4232.933
66	93.627	4231.601
67	94.120	3745.740
68	94.495	2842.161
69	94.867	2821.955
70	95.238	2821.955
71	95.610	2821.897
72	95.967	2710.622
73	96.219	1905.755
74	96.448	1743.762
75	96.678	1741.273
76	96.907	1741.215
77	97.137	1743.820
78	97.367	1743.762
79	97.596	1741.273
80	97.826	1743.762
81	98.008	1379.309
82	98.068	458.129
83	98.123	415.055
84	98.178	417.602
85	98.233	415.055
86	98.288	420.150
87	98.343	415.055
88	98.398	417.602
89	98.453	420.092
90	98.508	417.602
91	98.563	415.055
92	98.617	412.565
93	98.673	425.186
94	98.727	410.018
95	98.783	420.092
96	98.837	415.113
97	98.892	415.055
98	98.947	415.055
99	99.003	425.186
100	99.057	415.055
101	99.112	415.055
102	99.167	415.055
103	99.222	415.055
104	99.276	415.055
105	99.331	415.055
106	99.386	415.055

107	99.440	415.055
108	99.495	415.055
109	99.550	415.055
110	99.604	415.055
111	99.659	415.055
112	99.714	415.055
113	99.769	415.055
114	99.823	415.055
115	99.878	415.055
116	99.933	415.055
117	99.987	415.055
118	100.000	96.454

-----  
TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 14010.6689  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 5779.9272  
-----

2 4 - 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 FIVE-MINUTE UNIT INTERVALS (CFS)

(Note: Time indicated is at END of Each Unit Intervals)

TIME (HRS)	VOLUME (AF)	Q (CFS)	0.	1875.0	3750.0	5625.0	7500.0
0.083	0.0135	1.97	Q	.	.	.	.
0.167	0.0542	5.90	Q	.	.	.	.
0.250	0.1220	9.85	Q	.	.	.	.
0.333	0.2171	13.81	Q	.	.	.	.
0.417	0.3395	17.78	Q	.	.	.	.
0.500	0.4894	21.76	Q	.	.	.	.
0.583	0.6742	26.83	Q	.	.	.	.
0.667	0.9007	32.89	Q	.	.	.	.
0.750	1.1690	38.97	Q	.	.	.	.
0.833	1.4795	45.09	Q	.	.	.	.
0.917	1.8526	54.17	Q	.	.	.	.
1.000	2.3026	65.34	Q	.	.	.	.
1.083	2.8408	78.14	Q	.	.	.	.
1.167	3.4818	93.08	Q	.	.	.	.
1.250	4.2453	110.85	Q	.	.	.	.
1.333	5.1329	128.88	Q	.	.	.	.
1.417	6.1416	146.47	Q	.	.	.	.
1.500	7.2756	164.65	Q	.	.	.	.
1.583	8.5793	189.30	VQ	.	.	.	.
1.667	10.0220	209.48	VQ	.	.	.	.
1.750	11.5954	228.46	VQ	.	.	.	.
1.833	13.3129	249.39	VQ	.	.	.	.
1.917	15.2059	274.86	VQ	.	.	.	.
2.000	17.2650	298.99	VQ	.	.	.	.
2.083	19.4658	319.56	VQ	.	.	.	.
2.167	21.8198	341.80	VQ	.	.	.	.
2.250	24.3572	368.44	VQ	.	.	.	.
2.333	27.0839	395.91	V Q	.	.	.	.
2.417	30.0247	427.00	V Q	.	.	.	.
2.500	33.1197	449.39	V Q	.	.	.	.
2.583	36.4178	478.89	V Q	.	.	.	.
2.667	39.9461	512.31	V Q	.	.	.	.
2.750	43.7001	545.09	V Q	.	.	.	.
2.833	47.6969	580.33	V Q	.	.	.	.
2.917	51.9461	616.98	V Q	.	.	.	.
3.000	56.3820	644.10	V Q	.	.	.	.
3.083	60.9975	670.17	V Q	.	.	.	.
3.167	65.7994	697.24	V Q	.	.	.	.
3.250	70.8216	729.22	V Q	.	.	.	.
3.333	76.0978	766.10	V Q	.	.	.	.
3.417	81.5785	795.80	V Q	.	.	.	.
3.500	87.2369	821.61	V Q	.	.	.	.
3.583	93.0838	848.96	V Q	.	.	.	.
3.667	99.1122	875.32	V Q	.	.	.	.
3.750	105.3044	899.12	V Q	.	.	.	.
3.833	111.6678	923.95	V Q	.	.	.	.
3.917	118.1871	946.60	V Q	.	.	.	.

4.000	124.8342	965.17	V Q	.	.	.	.
4.083	131.6085	983.62	V Q	.	.	.	.
4.167	138.5114	1002.30	V Q	.	.	.	.
4.250	145.5480	1021.71	.V Q	.	.	.	.
4.333	152.7112	1040.10	.V Q	.	.	.	.
4.417	159.9964	1057.82	.V Q	.	.	.	.
4.500	167.3969	1074.55	.V Q	.	.	.	.
4.583	174.9072	1090.50	.V Q	.	.	.	.
4.667	182.5159	1104.79	.V Q	.	.	.	.
4.750	190.2207	1118.73	.V Q	.	.	.	.
4.833	198.0088	1130.83	.V Q	.	.	.	.
4.917	205.8794	1142.81	.V Q	.	.	.	.
5.000	213.8313	1154.62	.V Q	.	.	.	.
5.083	221.8610	1165.91	.V Q	.	.	.	.
5.167	229.9682	1177.17	.V Q	.	.	.	.
5.250	238.1534	1188.48	.V Q	.	.	.	.
5.333	246.4130	1199.29	.V Q	.	.	.	.
5.417	254.7470	1210.10	.V Q	.	.	.	.
5.500	263.1554	1220.91	.V Q	.	.	.	.
5.583	271.6339	1231.08	.V Q	.	.	.	.
5.667	280.1730	1239.87	.V Q	.	.	.	.
5.750	288.7730	1248.73	.V Q	.	.	.	.
5.833	297.4342	1257.60	. V Q	.	.	.	.
5.917	306.1572	1266.58	. V Q	.	.	.	.
6.000	314.9409	1275.40	. V Q	.	.	.	.
6.083	323.7776	1283.08	. V Q	.	.	.	.
6.167	332.6654	1290.52	. V Q	.	.	.	.
6.250	341.6053	1298.06	. V Q	.	.	.	.
6.333	350.5971	1305.61	. V Q	.	.	.	.
6.417	359.6418	1313.28	. V Q	.	.	.	.
6.500	368.7393	1320.96	. V Q	.	.	.	.
6.583	377.8904	1328.75	. V Q	.	.	.	.
6.667	387.0953	1336.55	. V Q	.	.	.	.
6.750	396.3508	1343.90	. V Q	.	.	.	.
6.833	405.6472	1349.84	. V Q	.	.	.	.
6.917	414.9848	1355.82	. V Q	.	.	.	.
7.000	424.3637	1361.82	. V Q	.	.	.	.
7.083	433.7847	1367.93	. V Q	.	.	.	.
7.167	443.2479	1374.05	. V Q	.	.	.	.
7.250	452.7541	1380.30	. V Q	.	.	.	.
7.333	462.3033	1386.55	. V Q	.	.	.	.
7.417	471.8965	1392.93	. V Q	.	.	.	.
7.500	481.5336	1399.31	. V Q	.	.	.	.
7.583	491.2156	1405.83	. V Q	.	.	.	.
7.667	500.9425	1412.34	. V Q	.	.	.	.
7.750	510.7153	1419.02	. V Q	.	.	.	.
7.833	520.5341	1425.68	. V Q	.	.	.	.
7.917	530.3997	1432.49	. V Q	.	.	.	.
8.000	540.3123	1439.31	. V Q	.	.	.	.
8.083	550.2729	1446.28	. V Q	.	.	.	.
8.167	560.2815	1453.25	. V Q	.	.	.	.
8.250	570.3393	1460.40	. V Q	.	.	.	.
8.333	580.4463	1467.54	. V Q	.	.	.	.
8.417	590.6036	1474.83	. V Q	.	.	.	.
8.500	600.8112	1482.15	. V Q	.	.	.	.
8.583	611.0703	1489.62	. V Q	.	.	.	.
8.667	621.3810	1497.11	. V Q	.	.	.	.
8.750	631.7444	1504.77	. V Q	.	.	.	.

8.833	642.1608	1512.45	.	V	Q	.	.	.
8.917	652.6312	1520.30	.	V	Q	.	.	.
9.000	663.1558	1528.17	.	V	Q	.	.	.
9.083	673.7358	1536.23	.	V	Q	.	.	.
9.167	684.3715	1544.30	.	V	Q	.	.	.
9.250	695.0641	1552.57	.	V	Q	.	.	.
9.333	705.8138	1560.85	.	V	Q	.	.	.
9.417	716.6219	1569.34	.	V	Q	.	.	.
9.500	727.4887	1577.85	.	V	Q	.	.	.
9.583	738.4155	1586.57	.	V	Q	.	.	.
9.667	749.4025	1595.31	.	V	Q	.	.	.
9.750	760.4512	1604.28	.	V	Q	.	.	.
9.833	771.5584	1612.77	.	V	Q	.	.	.
9.917	782.7247	1621.35	.	V	Q	.	.	.
10.000	793.9503	1629.95	.	V	Q	.	.	.
10.083	805.2366	1638.79	.	V	Q	.	.	.
10.167	816.5841	1647.66	.	V	Q	.	.	.
10.250	827.9944	1656.77	.	V	Q	.	.	.
10.333	839.4677	1665.93	.	V	Q	.	.	.
10.417	851.0058	1675.33	.	V	Q	.	.	.
10.500	862.6090	1684.78	.	V	Q	.	.	.
10.583	874.2791	1694.50	.	V	Q	.	.	.
10.667	886.0165	1704.27	.	V	Q	.	.	.
10.750	897.8231	1714.31	.	V	Q	.	.	.
10.833	909.6992	1724.41	.	V	Q	.	.	.
10.917	921.6468	1734.80	.	V	Q	.	.	.
11.000	933.6664	1745.25	.	V	Q	.	.	.
11.083	945.7601	1756.01	.	V	Q	.	.	.
11.167	957.9283	1766.83	.	V	Q	.	.	.
11.250	970.1733	1777.97	.	V	Q	.	.	.
11.333	982.4955	1789.19	.	V	Q	.	.	.
11.417	994.8974	1800.75	.	V	Q	.	.	.
11.500	1007.3794	1812.39	.	V	Q	.	.	.
11.583	1019.9440	1824.39	.	V	Q	.	.	.
11.667	1032.5919	1836.48	.	V	Q	.	.	.
11.750	1045.3257	1848.94	.	V	Q	.	.	.
11.833	1058.1460	1861.51	.	V	Q	.	.	.
11.917	1071.0557	1874.48	.	V	Q	.	.	.
12.000	1084.0554	1887.56	.	V	Q	.	.	.
12.083	1097.1725	1904.59	.	V	Q	.	.	.
12.167	1110.4319	1925.26	.	V	Q	.	.	.
12.250	1123.8364	1946.34	.	V	Q	.	.	.
12.333	1137.3868	1967.52	.	V	Q	.	.	.
12.417	1151.0862	1989.15	.	V	Q	.	.	.
12.500	1164.9352	2010.88	.	V	Q	.	.	.
12.583	1178.9503	2035.00	.	V	Q	.	.	.
12.667	1193.1445	2061.00	.	V	Q	.	.	.
12.750	1207.5211	2087.47	.	V	.Q	.	.	.
12.833	1222.0811	2114.11	.	V	.Q	.	.	.
12.917	1236.8644	2146.54	.	V	.Q	.	.	.
13.000	1251.8972	2182.78	.	V	.Q	.	.	.
13.083	1267.2029	2222.39	.	V	.Q	.	.	.
13.167	1282.8079	2265.84	.	V	.Q	.	.	.
13.250	1298.7501	2314.81	.	V	.Q	.	.	.
13.333	1315.0326	2364.22	.	V	.Q	.	.	.
13.417	1331.6525	2413.20	.	V	.Q	.	.	.
13.500	1348.6171	2463.25	.	V	.Q	.	.	.
13.583	1366.0092	2525.33	.	V	.Q	.	.	.

13.667	1383.7729	2579.31	.	V.	Q	.	.	.
13.750	1401.8965	2631.53	.	V.	Q	.	.	.
13.833	1420.4039	2687.28	.	V.	Q	.	.	.
13.917	1439.3544	2751.61	.	V.	Q	.	.	.
14.000	1458.7311	2813.50	.	V	Q	.	.	.
14.083	1478.5428	2876.66	.	V	Q	.	.	.
14.167	1498.8591	2949.92	.	V	Q	.	.	.
14.250	1519.7335	3030.97	.	V	Q	.	.	.
14.333	1541.1721	3112.88	.	V	Q	.	.	.
14.417	1563.2181	3201.07	.	V	Q	.	.	.
14.500	1585.7592	3272.95	.	V	Q	.	.	.
14.583	1608.9089	3361.34	.	.V	Q	.	.	.
14.667	1632.7356	3459.64	.	.V	Q	.	.	.
14.750	1657.2263	3556.06	.	.V	Q	.	.	.
14.833	1682.4048	3655.91	.	.V	Q	.	.	.
14.917	1708.3578	3768.38	.	.V	Q	.	.	.
15.000	1735.0092	3869.79	.	.V	Q	.	.	.
15.083	1762.3757	3973.63	.	.V	.Q	.	.	.
15.167	1790.5085	4084.89	.	.V	.Q	.	.	.
15.250	1819.5233	4212.94	.	.V	.Q	.	.	.
15.333	1849.4644	4347.44	.	.V	.Q	.	.	.
15.417	1880.1771	4459.49	.	.V	.Q	.	.	.
15.500	1911.5776	4559.36	.	.V	.Q	.	.	.
15.583	1943.8374	4684.12	.	.V	.Q	.	.	.
15.667	1976.8123	4787.95	.	.V	.Q	.	.	.
15.750	2010.4093	4878.29	.	.V	.Q	.	.	.
15.833	2044.6696	4974.58	.	.V	.Q	.	.	.
15.917	2079.6602	5080.63	.	.V	.Q	.	.	.
16.000	2115.3279	5178.95	.	.V	.Q	.	.	.
16.083	2152.1099	5340.74	.	.V	.Q	.	.	.
16.167	2189.9700	5497.28	.	.V	.Q	.	.	.
16.250	2228.3804	5577.20	.	.V	.Q	.	.	.
16.333	2267.2866	5649.18	.	.V	.Q	.	.	.
16.417	2306.7583	5731.28	.	.V	.Q	.	.	.
16.500	2346.5894	5783.48	.	.V	.Q	.	.	.
16.583	2387.1924	5895.55	.	.V	.Q	.	.	.
16.667	2428.5950	6011.66	.	.V	.Q	.	.	.
16.750	2470.5098	6086.02	.	.V	.Q	.	.	.
16.833	2513.0623	6178.62	.	.V	.Q	.	.	.
16.917	2556.9844	6377.49	.	.V	.Q	.	.	.
17.000	2601.8660	6516.82	.	.V	.Q	.	.	.
17.083	2647.5398	6631.84	.	.V	.Q	.	.	.
17.167	2694.0833	6758.12	.	.V	.Q	.	.	.
17.250	2741.6494	6906.60	.	.V	.Q	.	.	.
17.333	2789.6870	6975.05	.	.V	.Q	.	.	.
17.417	2837.9565	7008.73	.	.V	.Q	.	.	.
17.500	2886.7737	7088.24	.	.V	.Q	.	.	.
17.583	2937.4460	7357.64	.	.V	.Q	.	.	.
17.667	2986.9167	7183.15	.	.V	.Q	.	.	.
17.750	3036.1560	7149.54	.	.V	.Q	.	.	.
17.833	3086.3042	7281.51	.	.V	.Q	.	.	.
17.917	3137.7471	7469.49	.	.V	.Q	.	.	.
18.000	3188.5015	7369.53	.	.V	.Q	.	.	.
18.083	3238.0342	7192.15	.	.V	.Q	.	.	.
18.167	3287.9163	7242.89	.	.V	.Q	.	.	.
18.250	3338.8120	7390.07	.	.V	.Q	.	.	.
18.333	3389.8398	7409.25	.	.V	.Q	.	.	.
18.417	3441.4790	7498.02	.	.V	.Q	.	.	.

18.500	3490.6062	7133.26	.	.	.	V	.	Q	.
18.583	3541.4380	7380.76	.	.	.	V	.	Q	.
18.667	3592.9963	7486.26	.	.	.	V	.	Q	.
18.750	3644.2803	7446.44	.	.	.	V	.	Q	.
18.833	3695.9202	7498.11	.	.	.	V	.	Q	.
18.917	3747.1594	7439.96	.	.	.	V	.	Q	.
19.000	3795.2275	6979.49	.	.	.	V	.	Q	.
19.083	3842.8279	6911.56	.	.	.	V	.	Q	.
19.167	3890.7046	6951.70	.	.	.	V	.	Q	.
19.250	3939.8289	7132.83	.	.	.	V	.	Q	.
19.333	3989.7581	7249.71	.	.	.	V	.	Q	.
19.417	4036.9907	6858.18	.	.	.	V	.	Q	.
19.500	4082.8359	6656.73	.	.	.	V	.	Q	.
19.583	4128.5308	6634.91	.	.	.	V	.	Q	.
19.667	4173.3887	6513.34	.	.	.	V	.	Q	.
19.750	4216.9912	6331.09	.	.	.	V	.	Q	.
19.833	4260.1299	6263.71	.	.	.	V	.	Q	.
19.917	4301.7314	6040.52	.	.	.	V	.	Q	.
20.000	4341.6685	5798.85	.	.	.	Q	.	.	.
20.083	4381.0894	5723.92	.	.	.	Q	.	.	.
20.167	4420.1074	5665.42	.	.	.	Q	.	.	.
20.250	4458.5869	5587.20	.	.	.	QV	.	.	.
20.333	4495.8252	5406.99	.	.	.	Q	.V	.	.
20.417	4531.9995	5252.49	.	.	.	Q	.V	.	.
20.500	4567.2231	5114.44	.	.	.	Q	.V	.	.
20.583	4601.3833	4960.06	.	.	.	Q	.V	.	.
20.667	4634.2373	4770.39	.	.	.	Q	.V	.	.
20.750	4666.1499	4633.71	.	.	.	Q	.V	.	.
20.833	4696.6528	4429.02	.	.	.	Q	.V	.	.
20.917	4726.2456	4296.88	.	.	.	Q	.V	.	.
21.000	4755.1479	4196.65	.	.	.	Q	.V	.	.
21.083	4783.2642	4082.48	.	.	.	Q	.V	.	.
21.167	4810.6982	3983.44	.	.	.	Q	.V	.	.
21.250	4837.3452	3869.11	.	.	.	Q	.V	.	.
21.333	4863.0459	3731.74	.	.	.	Q	.V	.	.
21.417	4888.0220	3626.53	.	.	.	Q	.V	.	.
21.500	4912.3403	3531.04	.	.	.	Q	.V	.	.
21.583	4935.7666	3401.49	.	.	.	Q	.V	.	.
21.667	4958.2017	3257.58	.	.	.	Q	.V	.	.
21.750	4980.0874	3177.84	.	.	.	Q	.V	.	.
21.833	5001.4614	3103.52	.	.	.	Q	.V	.	.
21.917	5022.3369	3031.11	.	.	.	Q	.V	.	.
22.000	5042.6704	2952.39	.	.	.	Q	.V	.	.
22.083	5062.2090	2837.00	.	.	.	Q	.V	.	.
22.167	5081.2690	2767.49	.	.	.	Q	.V	.	.
22.250	5099.9131	2707.14	.	.	.	Q	.V	.	.
22.333	5118.1650	2650.19	.	.	.	Q	.V	.	.
22.417	5136.0195	2592.44	.	.	.	Q	.V	.	.
22.500	5153.4824	2535.58	.	.	.	Q	.V	.	.
22.583	5170.5693	2481.03	.	.	.	Q	.V	.	.
22.667	5187.3086	2430.52	.	.	.	Q	.V	.	.
22.750	5203.5215	2354.08	.	.	.	Q	.V	.	.
22.833	5219.0264	2251.33	.	.	.	Q	.V	.	.
22.917	5234.2227	2206.52	.	.	.	Q	.V	.	.
23.000	5249.1411	2166.17	.	.	.	Q	.V	.	.
23.083	5263.8169	2130.94	.	.	.	Q	.V	.	.
23.167	5278.2412	2094.38	.	.	.	Q	.V	.	.
23.250	5292.4058	2056.71	.	.	.	Q	.V	.	.

23.333	5306.3184	2020.10	.	.	.	Q	.	V	.
23.417	5319.9775	1983.33	.	.	.	Q	.	V	.
23.500	5333.3799	1946.05	.	.	.	Q	.	V	.
23.583	5346.5337	1909.90	.	.	.	Q	.	V	.
23.667	5359.4556	1876.23	.	.	.	Q	.	V	.
23.750	5372.1655	1845.48	.	.	.	Q	.	V	.
23.833	5384.6772	1816.72	.	.	.	Q	.	V	.
23.917	5397.0029	1789.71	.	.	.	Q	.	V	.
24.000	5409.1421	1762.60	.	.	.	Q	.	V	.
24.083	5421.1030	1736.70	.	.	.	Q	.	V	.
24.167	5432.8784	1709.80	.	.	.	Q	.	V	.
24.250	5444.4761	1684.01	.	.	.	Q	.	V	.
24.333	5455.8911	1657.49	.	.	.	Q	.	V	.
24.417	5467.1313	1632.07	.	.	.	Q	.	V	.
24.500	5478.2002	1607.16	.	.	.	Q	.	V	.
24.583	5489.0933	1581.70	.	.	.	Q	.	V	.
24.667	5499.8076	1555.72	.	.	.	Q	.	V	.
24.750	5510.3525	1531.12	.	.	.	Q	.	V	.
24.833	5520.7495	1509.64	.	.	.	Q	.	V	.
24.917	5530.9819	1485.74	.	.	.	Q	.	V	.
25.000	5541.0396	1460.34	.	.	.	Q	.	V	.
25.083	5550.9141	1433.81	.	.	.	Q	.	V	.
25.167	5560.6030	1406.83	.	.	.	Q	.	V	.
25.250	5570.0913	1377.68	.	.	.	Q	.	V	.
25.333	5579.3789	1348.56	.	.	.	Q	.	V	.
25.417	5588.4707	1320.16	.	.	.	Q	.	V	.
25.500	5597.3672	1291.79	.	.	.	Q	.	V	.
25.583	5606.0259	1257.26	.	.	.	Q	.	V	.
25.667	5614.4756	1226.89	.	.	.	Q	.	V	.
25.750	5622.7119	1195.94	.	.	.	Q	.	V	.
25.833	5630.5938	1144.45	.	.	.	Q	.	V	.
25.917	5638.1963	1103.91	.	.	.	Q	.	V	.
26.000	5645.5752	1071.41	.	.	.	Q	.	V	.
26.083	5652.7593	1043.11	.	.	.	Q	.	V	.
26.167	5659.7319	1012.46	.	.	.	Q	.	V	.
26.250	5666.4619	977.17	.	.	.	Q	.	V	.
26.333	5672.9434	941.13	.	.	.	Q	.	V	.
26.417	5679.1528	901.61	.	.	.	Q	.	V	.
26.500	5685.1509	870.93	.	.	.	Q	.	V	.
26.583	5690.8896	833.29	.	.	.	Q	.	V	.
26.667	5696.3433	791.88	.	.	.	Q	.	V	.
26.750	5701.5181	751.39	.	.	.	Q	.	V	.
26.833	5706.4111	710.49	.	.	.	Q	.	V	.
26.917	5711.0200	669.18	.	.	.	Q	.	V	.
27.000	5715.4126	637.80	.	.	.	Q	.	V	.
27.083	5719.5986	607.84	.	.	.	Q	.	V	.
27.167	5723.5737	577.18	.	.	.	Q	.	V	.
27.250	5727.3066	542.01	.	.	.	Q	.	V	.
27.333	5730.7656	502.26	.	.	.	Q	.	V	.
27.417	5734.0034	470.13	.	.	.	Q	.	V	.
27.500	5737.0488	442.19	.	.	.	Q	.	V	.
27.583	5739.8936	413.03	.	.	.	Q	.	V	.
27.667	5742.5459	385.14	.	.	.	Q	.	V	.
27.750	5745.0264	360.14	.	.	.	Q	.	V	.
27.833	5747.3350	335.22	.	.	.	Q	.	V	.
27.917	5749.4912	313.07	.	.	.	Q	.	V	.
28.000	5751.5244	295.22	.	.	.	Q	.	V	.
28.083	5753.4370	277.73	.	.	.	Q	.	V	.



28.167	5755.2290	260.20	.Q	.	.	.	V.
28.250	5756.8970	242.18	.Q	.	.	.	V.
28.333	5758.4492	225.36	.Q	.	.	.	V.
28.417	5759.8916	209.45	.Q	.	.	.	V.
28.500	5761.2324	194.69	.Q	.	.	.	V.
28.583	5762.4785	180.93	Q	.	.	.	V.
28.667	5763.6421	168.96	Q	.	.	.	V.
28.750	5764.7271	157.53	Q	.	.	.	V.
28.833	5765.7466	148.05	Q	.	.	.	V.
28.917	5766.7031	138.87	Q	.	.	.	V.
29.000	5767.5981	129.96	Q	.	.	.	V.
29.083	5768.4365	121.72	Q	.	.	.	V.
29.167	5769.2188	113.60	Q	.	.	.	V.
29.250	5769.9458	105.59	Q	.	.	.	V.
29.333	5770.6221	98.17	Q	.	.	.	V.
29.417	5771.2480	90.91	Q	.	.	.	V.
29.500	5771.8247	83.70	Q	.	.	.	V.
29.583	5772.3569	77.30	Q	.	.	.	V.
29.667	5772.8550	72.34	Q	.	.	.	V.
29.750	5773.3193	67.45	Q	.	.	.	V.
29.833	5773.7505	62.60	Q	.	.	.	V.
29.917	5774.1484	57.78	Q	.	.	.	V.
30.000	5774.5146	53.17	Q	.	.	.	V.
30.083	5774.8579	49.83	Q	.	.	.	V.
30.167	5775.1802	46.78	Q	.	.	.	V.
30.250	5775.4814	43.74	Q	.	.	.	V.
30.333	5775.7622	40.73	Q	.	.	.	V.
30.417	5776.0220	37.74	Q	.	.	.	V.
30.500	5776.2612	34.77	Q	.	.	.	V.
30.583	5776.4805	31.83	Q	.	.	.	V.
30.667	5776.6797	28.90	Q	.	.	.	V.
30.750	5776.8628	26.56	Q	.	.	.	V.
30.833	5777.0396	25.66	Q	.	.	.	V.
30.917	5777.2104	24.83	Q	.	.	.	V.
31.000	5777.3760	24.00	Q	.	.	.	V.
31.083	5777.5356	23.19	Q	.	.	.	V.
31.167	5777.6899	22.37	Q	.	.	.	V.
31.250	5777.8384	21.57	Q	.	.	.	V.
31.333	5777.9814	20.78	Q	.	.	.	V.
31.417	5778.1191	19.98	Q	.	.	.	V.
31.500	5778.2515	19.20	Q	.	.	.	V.
31.583	5778.3784	18.43	Q	.	.	.	V.
31.667	5778.5000	17.66	Q	.	.	.	V.
31.750	5778.6162	16.89	Q	.	.	.	V.
31.833	5778.7275	16.14	Q	.	.	.	V.
31.917	5778.8335	15.38	Q	.	.	.	V.
32.000	5778.9341	14.64	Q	.	.	.	V.
32.083	5779.0298	13.90	Q	.	.	.	V.
32.167	5779.1206	13.17	Q	.	.	.	V.
32.250	5779.2061	12.43	Q	.	.	.	V.
32.333	5779.2866	11.70	Q	.	.	.	V.
32.417	5779.3623	10.99	Q	.	.	.	V.
32.500	5779.4331	10.28	Q	.	.	.	V.
32.583	5779.4990	9.57	Q	.	.	.	V.
32.667	5779.5601	8.87	Q	.	.	.	V.
32.750	5779.6162	8.17	Q	.	.	.	V.
32.833	5779.6675	7.48	Q	.	.	.	V.
32.917	5779.7144	6.79	Q	.	.	.	V.

33.000	5779.7563	6.11	Q	.	.	.	V.
33.083	5779.7939	5.43	Q	.	.	.	V.
33.167	5779.8267	4.76	Q	.	.	.	V.
33.250	5779.8550	4.09	Q	.	.	.	V.
33.333	5779.8784	3.42	Q	.	.	.	V.
33.417	5779.8975	2.76	Q	.	.	.	V.
33.500	5779.9121	2.10	Q	.	.	.	V.
33.583	5779.9219	1.45	Q	.	.	.	V.
33.667	5779.9272	0.80	Q	.	.	.	V.
33.750	5779.9282	0.15	Q	.	.	.	V.

-----  
TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
(Note: 100% of Peak Flow Rate estimate assumed to have  
an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
=====	=====
0%	2025.0
10%	1410.0
20%	970.0
30%	585.0
40%	465.0
50%	385.0
60%	320.0
70%	265.0
80%	200.0
90%	140.0
=====	=====

END OF FLOODSCx ROUTING ANALYSIS

\*\*\*\*\*

FLOOD ROUTING ANALYSIS
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)
(c) Copyright 1989-2013 Advanced Engineering Software (aes)
Ver. 20.0 Release Date: 06/01/2013 License ID 1264

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*
\* RANCHO MISSION VIEJO - SINGLE AREA \*
\* ULTIMATE CONDITION - REGIONAL NODE 119 \*
\* 2-YR EV ROKAMOTO SEPTEMBER 2018 \*

FILE NAME: EVO2119S.DAT
TIME/DATE OF STUDY: 13:29 09/27/2018

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 119.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<

\*\*\*\*\*

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 49495.699 ACRES
BASEFLOW = 0.000 CFS/SQUARE-MILE
\*USER ENTERED "LAG" TIME = 5.382 HOURS
VALLEY (DEVELOPED) S-GRAPH SELECTED
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.595
LOW LOSS FRACTION = 0.931
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.16
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.30
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 0.41
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 0.77
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 1.15
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 2.03

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:
5-MINUTE FACTOR = 0.345
30-MINUTE FACTOR = 0.395
1-HOUR FACTOR = 0.435
3-HOUR FACTOR = 0.785
6-HOUR FACTOR = 0.904
24-HOUR FACTOR = 0.944

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 1.548

UNIT HYDROGRAPH DETERMINATION

Table with 3 columns: INTERVAL NUMBER, "S" GRAPH MEAN VALUES, and UNIT HYDROGRAPH ORDINATES (CFS). It lists 48 intervals with corresponding values.

49	28.677	6451.307
50	29.896	7299.340
51	30.962	6378.637
52	32.057	6556.299
53	33.533	8834.950
54	34.870	8004.146
55	36.038	6987.652
56	36.898	5152.821
57	37.739	5032.507
58	39.269	9155.613
59	40.806	9204.707
60	42.135	7950.804
61	43.579	8644.078
62	44.957	8247.171
63	46.364	8423.201
64	47.983	9695.006
65	49.773	10715.312
66	51.031	7529.853
67	52.158	6741.315
68	53.284	6740.356
69	54.375	6531.285
70	55.408	6183.518
71	56.529	6708.730
72	57.774	7452.468
73	59.117	8043.329
74	60.638	9105.104
75	62.281	9834.706
76	63.600	7896.070
77	64.750	6882.408
78	65.822	6414.258
79	66.848	6140.566
80	67.876	6158.468
81	69.093	7283.562
82	70.249	6921.090
83	71.161	5454.394
84	72.081	5507.233
85	73.080	5980.086
86	74.079	5979.173
87	75.036	5732.836
88	75.958	5514.768
89	76.680	4325.601
90	77.369	4120.731
91	78.057	4118.905
92	78.745	4118.859
93	79.433	4118.859
94	80.131	4175.488
95	80.857	4347.294
96	81.586	4362.364
97	82.281	4162.290
98	82.933	3903.668
99	83.585	3903.714
100	84.214	3762.095
101	84.804	3535.578
102	85.394	3529.916
103	85.971	3454.425
104	86.463	2946.635
105	86.940	2852.238
106	87.416	2852.283

107	87.888	2825.796
108	88.282	2357.692
109	88.647	2180.269
110	89.011	2180.223
111	89.375	2182.141
112	89.739	2178.351
113	90.092	2112.314
114	90.419	1955.579
115	90.745	1951.834
116	91.071	1951.880
117	91.397	1949.916
118	91.723	1951.834
119	92.042	1912.194
120	92.339	1776.329
121	92.634	1764.958
122	92.929	1766.830
123	93.224	1763.085
124	93.519	1766.830
125	93.814	1766.876
126	94.071	1540.313
127	94.269	1185.468
128	94.465	1174.096
129	94.662	1177.887
130	94.859	1177.932
131	95.055	1174.096
132	95.253	1181.677
133	95.449	1174.142
134	95.645	1174.096
135	95.842	1181.677
136	96.020	1064.674
137	96.146	751.250
138	96.267	724.899
139	96.388	724.853
140	96.510	728.644
141	96.631	728.598
142	96.752	724.899
143	96.873	724.853
144	96.995	728.644
145	97.116	724.853
146	97.239	732.389
147	97.360	724.853
148	97.481	724.899
149	97.603	728.598
150	97.724	724.899
151	97.845	728.598
152	97.965	717.318
153	98.021	336.030
154	98.050	173.632
155	98.079	169.888
156	98.108	173.678
157	98.137	177.423
158	98.166	173.678
159	98.195	173.678
160	98.224	173.678
161	98.253	173.632
162	98.282	169.888
163	98.311	177.469
164	98.340	173.632

165	98.370	173.678
166	98.399	177.423
167	98.428	169.888
168	98.457	173.678
169	98.486	173.678
170	98.515	173.678
171	98.544	173.632
172	98.573	177.469
173	98.602	169.888
174	98.631	173.632
175	98.660	177.469
176	98.689	169.888
177	98.718	173.678
178	98.747	173.632
179	98.776	173.678
180	98.805	173.678
181	98.834	173.632
182	98.864	181.213
183	98.892	166.143
184	98.922	181.213
185	98.950	166.097
186	98.979	173.678
187	99.008	173.678
188	99.037	173.678
189	99.066	173.678
190	99.095	173.678
191	99.124	173.678
192	99.153	173.678
193	99.182	173.678
194	99.211	173.678
195	99.240	173.678
196	99.269	173.678
197	99.298	173.678
198	99.327	173.678
199	99.356	173.678
200	99.385	173.678
201	99.414	173.678
202	99.443	173.678
203	99.472	173.678
204	99.501	173.678
205	99.530	173.678
206	99.559	173.678
207	99.588	173.678
208	99.617	173.678
209	99.646	173.678
210	99.675	173.678
211	99.704	173.678
212	99.733	173.678
213	99.762	173.678
214	99.791	173.678
215	99.820	173.678
216	99.849	173.678
217	99.878	173.678
218	99.907	173.678
219	99.936	173.678
220	99.965	173.678
221	99.994	173.678
222	100.000	34.252

-----  
TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 7342.6523  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 547.4572  
-----

=====  
 2 4 - 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 FIVE-MINUTE UNIT INTERVALS (CFS)  
 (Note: Time indicated is at END of Each Unit Intervals)

TIME (HRS)	VOLUME (AF)	Q (CFS)	0.	150.0	300.0	450.0	600.0
0.083	0.0007	0.11	Q	.	.	.	.
0.167	0.0030	0.32	Q	.	.	.	.
0.250	0.0067	0.54	Q	.	.	.	.
0.333	0.0119	0.75	Q	.	.	.	.
0.417	0.0185	0.97	Q	.	.	.	.
0.500	0.0267	1.19	Q	.	.	.	.
0.583	0.0364	1.41	Q	.	.	.	.
0.667	0.0476	1.63	Q	.	.	.	.
0.750	0.0603	1.84	Q	.	.	.	.
0.833	0.0745	2.07	Q	.	.	.	.
0.917	0.0903	2.29	Q	.	.	.	.
1.000	0.1077	2.53	Q	.	.	.	.
1.083	0.1275	2.86	Q	.	.	.	.
1.167	0.1495	3.20	Q	.	.	.	.
1.250	0.1738	3.54	Q	.	.	.	.
1.333	0.2005	3.87	Q	.	.	.	.
1.417	0.2295	4.21	Q	.	.	.	.
1.500	0.2609	4.55	Q	.	.	.	.
1.583	0.2946	4.90	Q	.	.	.	.
1.667	0.3321	5.44	Q	.	.	.	.
1.750	0.3739	6.06	Q	.	.	.	.
1.833	0.4199	6.68	Q	.	.	.	.
1.917	0.4702	7.31	Q	.	.	.	.
2.000	0.5257	8.07	Q	.	.	.	.
2.083	0.5869	8.88	Q	.	.	.	.
2.167	0.6537	9.70	Q	.	.	.	.
2.250	0.7271	10.66	Q	.	.	.	.
2.333	0.8077	11.69	Q	.	.	.	.
2.417	0.8953	12.71	Q	.	.	.	.
2.500	0.9896	13.70	Q	.	.	.	.
2.583	1.0907	14.68	Q	.	.	.	.
2.667	1.1985	15.66	VQ	.	.	.	.
2.750	1.3132	16.65	VQ	.	.	.	.
2.833	1.4353	17.73	VQ	.	.	.	.
2.917	1.5678	19.24	VQ	.	.	.	.
3.000	1.7095	20.57	VQ	.	.	.	.
3.083	1.8585	21.64	VQ	.	.	.	.
3.167	2.0149	22.71	VQ	.	.	.	.
3.250	2.1787	23.78	VQ	.	.	.	.
3.333	2.3498	24.86	VQ	.	.	.	.
3.417	2.5295	26.09	VQ	.	.	.	.
3.500	2.7184	27.43	VQ	.	.	.	.
3.583	2.9177	28.93	VQ	.	.	.	.
3.667	3.1275	30.46	V Q	.	.	.	.
3.750	3.3456	31.67	V Q	.	.	.	.
3.833	3.5718	32.84	V Q	.	.	.	.
3.917	3.8061	34.02	V Q	.	.	.	.

4.000	4.0486	35.20	V Q	.	.	.	.
4.083	4.3008	36.62	V Q	.	.	.	.
4.167	4.5640	38.22	V Q	.	.	.	.
4.250	4.8370	39.64	V Q	.	.	.	.
4.333	5.1200	41.09	V Q	.	.	.	.
4.417	5.4163	43.02	V Q	.	.	.	.
4.500	5.7247	44.78	V Q	.	.	.	.
4.583	6.0438	46.34	V Q	.	.	.	.
4.667	6.3712	47.54	V Q	.	.	.	.
4.750	6.7067	48.71	V Q	.	.	.	.
4.833	7.0561	50.73	V Q	.	.	.	.
4.917	7.4194	52.76	V Q	.	.	.	.
5.000	7.7951	54.54	V Q	.	.	.	.
5.083	8.1840	56.48	V Q	.	.	.	.
5.167	8.5858	58.33	V Q	.	.	.	.
5.250	9.0006	60.23	V Q	.	.	.	.
5.333	9.4304	62.40	V Q	.	.	.	.
5.417	9.8765	64.78	V Q	.	.	.	.
5.500	10.3346	66.52	V Q	.	.	.	.
5.583	10.8037	68.11	V Q	.	.	.	.
5.667	11.2838	69.71	V Q	.	.	.	.
5.750	11.7746	71.26	V Q	.	.	.	.
5.833	12.2757	72.76	V Q	.	.	.	.
5.917	12.7878	74.37	V Q	.	.	.	.
6.000	13.3121	76.13	V Q	.	.	.	.
6.083	13.8495	78.02	.V Q	.	.	.	.
6.167	14.4013	80.13	.V Q	.	.	.	.
6.250	14.9688	82.40	.V Q	.	.	.	.
6.333	15.5493	84.29	.V Q	.	.	.	.
6.417	16.1414	85.97	.V Q	.	.	.	.
6.500	16.7445	87.57	.V Q	.	.	.	.
6.583	17.3583	89.12	.V Q	.	.	.	.
6.667	17.9828	90.68	.V Q	.	.	.	.
6.750	18.6197	92.48	.V Q	.	.	.	.
6.833	19.2685	94.20	.V Q	.	.	.	.
6.917	19.9272	95.64	.V Q	.	.	.	.
7.000	20.5959	97.10	.V Q	.	.	.	.
7.083	21.2754	98.66	.V Q	.	.	.	.
7.167	21.9657	100.23	.V Q	.	.	.	.
7.250	22.6664	101.75	.V Q	.	.	.	.
7.333	23.3774	103.23	.V Q	.	.	.	.
7.417	24.0970	104.49	.V Q	.	.	.	.
7.500	24.8250	105.70	.V Q	.	.	.	.
7.583	25.5614	106.93	.V Q	.	.	.	.
7.667	26.3063	108.16	.V Q	.	.	.	.
7.750	27.0597	109.39	.V Q	.	.	.	.
7.833	27.8217	110.65	.V Q	.	.	.	.
7.917	28.5927	111.95	.V Q	.	.	.	.
8.000	29.3727	113.25	.V Q	.	.	.	.
8.083	30.1614	114.53	.V Q	.	.	.	.
8.167	30.9586	115.75	.V Q	.	.	.	.
8.250	31.7643	116.99	.V Q	.	.	.	.
8.333	32.5784	118.20	.V Q	.	.	.	.
8.417	33.4005	119.38	.V Q	.	.	.	.
8.500	34.2308	120.56	.V Q	.	.	.	.
8.583	35.0692	121.73	.V Q	.	.	.	.
8.667	35.9150	122.81	.V Q	.	.	.	.
8.750	36.7681	123.87	.V Q	.	.	.	.

8.833	37.6286	124.95	. V	Q .	.	.	.
8.917	38.4965	126.02	. V	Q .	.	.	.
9.000	39.3713	127.01	. V	Q .	.	.	.
9.083	40.2526	127.97	. V	Q .	.	.	.
9.167	41.1406	128.94	. V	Q .	.	.	.
9.250	42.0353	129.91	. V	Q .	.	.	.
9.333	42.9367	130.89	. V	Q .	.	.	.
9.417	43.8449	131.87	. V	Q .	.	.	.
9.500	44.7597	132.82	. V	Q .	.	.	.
9.583	45.6810	133.78	. V	Q .	.	.	.
9.667	46.6090	134.75	. V	Q .	.	.	.
9.750	47.5438	135.72	. V	Q .	.	.	.
9.833	48.4853	136.71	. V	Q .	.	.	.
9.917	49.4336	137.69	. V	Q .	.	.	.
10.000	50.3885	138.66	. V	Q .	.	.	.
10.083	51.3502	139.63	. V	Q .	.	.	.
10.167	52.3186	140.61	. V	Q .	.	.	.
10.250	53.2938	141.61	. V	Q .	.	.	.
10.333	54.2760	142.61	. V	Q .	.	.	.
10.417	55.2651	143.62	. V	Q .	.	.	.
10.500	56.2609	144.59	. V	Q .	.	.	.
10.583	57.2630	145.51	. V	Q .	.	.	.
10.667	58.2714	146.43	. V	Q .	.	.	.
10.750	59.2863	147.36	. V	Q .	.	.	.
10.833	60.3076	148.30	. V	Q .	.	.	.
10.917	61.3356	149.25	. V	Q .	.	.	.
11.000	62.3701	150.22	. V	Q .	.	.	.
11.083	63.4114	151.19	. V	Q .	.	.	.
11.167	64.4594	152.18	. V	Q .	.	.	.
11.250	65.5144	153.18	. V	Q .	.	.	.
11.333	66.5761	154.16	. V	Q .	.	.	.
11.417	67.6443	155.10	. V	Q .	.	.	.
11.500	68.7190	156.04	. V	Q .	.	.	.
11.583	69.8002	157.00	. V	Q .	.	.	.
11.667	70.8882	157.97	. V	Q .	.	.	.
11.750	71.9829	158.96	. V	Q .	.	.	.
11.833	73.0845	159.95	. V	Q .	.	.	.
11.917	74.1931	160.96	. V	Q .	.	.	.
12.000	75.3087	161.99	. V	Q .	.	.	.
12.083	76.4327	163.20	. V	Q .	.	.	.
12.167	77.5664	164.61	. V	Q .	.	.	.
12.250	78.7098	166.02	. V	.Q	.	.	.
12.333	79.8630	167.45	. V	.Q	.	.	.
12.417	81.0262	168.90	. V	.Q	.	.	.
12.500	82.1995	170.36	. V	.Q	.	.	.
12.583	83.3829	171.84	. V	.Q	.	.	.
12.667	84.5767	173.33	. V	.Q	.	.	.
12.750	85.7803	174.76	. V	.Q	.	.	.
12.833	86.9936	176.18	. V	.Q	.	.	.
12.917	88.2169	177.61	. V	.Q	.	.	.
13.000	89.4504	179.11	. V	.Q	.	.	.
13.083	90.6953	180.76	. V	. Q	.	.	.
13.167	91.9517	182.43	. V	. Q	.	.	.
13.250	93.2197	184.12	. V	. Q	.	.	.
13.333	94.4995	185.83	. V	. Q	.	.	.
13.417	95.7912	187.56	. V	. Q	.	.	.
13.500	97.0951	189.31	. V	. Q	.	.	.
13.583	98.4112	191.11	. V	. Q	.	.	.

13.667	99.7420	193.23	. V	. Q	.	.	.
13.750	101.0884	195.50	. V	. Q	.	.	.
13.833	102.4505	197.78	. V	. Q	.	.	.
13.917	103.8286	200.10	. V	. Q	.	.	.
14.000	105.2243	202.65	. V	. Q	.	.	.
14.083	106.6397	205.52	. V	. Q	.	.	.
14.167	108.0765	208.62	. V	. Q	.	.	.
14.250	109.5361	211.95	. V	. Q	.	.	.
14.333	111.0196	215.40	. V	. Q	.	.	.
14.417	112.5267	218.83	. V	. Q	.	.	.
14.500	114.0571	222.21	. V	. Q	.	.	.
14.583	115.6108	225.60	. V	. Q	.	.	.
14.667	117.1879	228.99	. V	. Q	.	.	.
14.750	118.7884	232.40	. V	. Q	.	.	.
14.833	120.4135	235.97	. V	. Q	.	.	.
14.917	122.0680	240.23	. V	. Q	.	.	.
15.000	123.7502	244.25	. V	. Q	.	.	.
15.083	125.4583	248.01	. V	. Q	.	.	.
15.167	127.1923	251.78	. V	. Q	.	.	.
15.250	128.9523	255.56	. V	. Q	.	.	.
15.333	130.7384	259.34	. V	. Q	.	.	.
15.417	132.5505	263.11	. V	. Q	.	.	.
15.500	134.3880	266.81	. V	. Q	.	.	.
15.583	136.2533	270.85	. V	. Q	.	.	.
15.667	138.1496	275.34	. V	. Q	.	.	.
15.750	140.0738	279.40	. V	. Q	.	.	.
15.833	142.0252	283.35	. V	. Q	.	.	.
15.917	144.0053	287.50	. V	. Q	.	.	.
16.000	146.0178	292.22	. V	. Q	.	.	.
16.083	148.0792	299.32	. V	. Q	.	.	.
16.167	150.1894	306.40	. V	. Q	.	.	.
16.250	152.3345	311.47	. V	. Q	.	.	.
16.333	154.5148	316.58	. V	. Q	.	.	.
16.417	156.7351	322.38	. V	. Q	.	.	.
16.500	158.9943	328.04	. V	. Q	.	.	.
16.583	161.2905	333.41	. V	. Q	.	.	.
16.667	163.6194	338.16	. V	. Q	.	.	.
16.750	165.9805	342.83	. V	. Q	.	.	.
16.833	168.3846	349.07	. V	. Q	.	.	.
16.917	170.8380	356.24	. V	. Q	.	.	.
17.000	173.3361	362.72	. V	. Q	.	.	.
17.083	175.8794	369.29	. V	. Q	.	.	.
17.167	178.4564	374.17	. V	. Q	.	.	.
17.250	181.0667	379.01	. V	. Q	.	.	.
17.333	183.7099	383.80	. V	. Q	.	.	.
17.417	186.3908	389.27	. V	. Q	.	.	.
17.500	189.1058	394.21	. V	. Q	.	.	.
17.583	191.8570	399.47	. V	. Q	.	.	.
17.667	194.6632	407.46	. V	. Q	.	.	.
17.750	197.5040	412.48	. V	. Q	.	.	.
17.833	200.3711	416.30	. V	. Q	.	.	.
17.917	203.2670	420.49	. V	. Q	.	.	.
18.000	206.2097	427.28	. V	. Q	.	.	.
18.083	209.1937	433.27	. V	. Q	.	.	.
18.167	212.2164	438.89	. V	. Q	.	.	.
18.250	215.2846	445.50	. V	. Q	.	.	.
18.333	218.3899	450.90	. V	. Q	.	.	.
18.417	221.5308	456.06	. V	. Q	.	.	.

18.500	224.7001	460.18	.	.	V	.	Q	.
18.583	227.8983	464.38	.	.	V	.	Q	.
18.667	231.1220	468.08	.	.	V	.	.Q	.
18.750	234.3757	472.44	.	.	V	.	.Q	.
18.833	237.6802	479.82	.	.	V	.	.Q	.
18.917	241.0590	490.61	.	.	V	.	.Q	.
19.000	244.4304	489.52	.	.	V	.	.Q	.
19.083	247.7939	488.38	.	.	V	.	.Q	.
19.167	251.1821	491.96	.	.	V	.	.Q	.
19.250	254.5996	496.22	.	.	V	.	.Q	.
19.333	258.0490	500.86	.	.	V	.	.Q	.
19.417	261.5428	507.30	.	.	V	.	.Q	.
19.500	265.0623	511.03	.	.	V	.	.Q	.
19.583	268.6105	515.20	.	.	V	.	.Q	.
19.667	272.1611	515.55	.	.	V	.	.Q	.
19.750	275.6678	509.18	.	.	V	.	.Q	.
19.833	279.1684	508.28	.	.	V	.	.Q	.
19.917	282.6739	509.00	.	.	V	.	.Q	.
20.000	286.1982	511.73	.	.	V	.	.Q	.
20.083	289.7631	517.61	.	.	.V	.	.Q	.
20.167	293.3438	519.92	.	.	.V	.	.Q	.
20.250	296.9036	516.88	.	.	.V	.	.Q	.
20.333	300.4736	518.36	.	.	.V	.	.Q	.
20.417	304.0909	525.23	.	.	.V	.	.Q	.
20.500	307.6699	519.66	.	.	.V	.	.Q	.
20.583	311.2001	512.60	.	.	.V	.	.Q	.
20.667	314.6689	503.66	.	.	.V	.	.Q	.
20.750	318.1399	503.99	.	.	.V	.	.Q	.
20.833	321.7150	519.11	.	.	.V	.	.Q	.
20.917	325.2794	517.56	.	.	.V	.	.Q	.
21.000	328.7985	510.96	.	.	.V	.	.Q	.
21.083	332.3150	510.60	.	.	.V	.	.Q	.
21.167	335.8196	508.87	.	.	.V	.	.Q	.
21.250	339.3315	509.92	.	.	.V	.	.Q	.
21.333	342.8622	512.67	.	.	.V	.	.Q	.
21.417	346.3824	511.12	.	.	.V	.	.Q	.
21.500	349.7888	494.62	.	.	.V	.	.Q	.
21.583	353.1436	487.12	.	.	.V	.	.Q	.
21.667	356.4803	484.49	.	.	.V	.	.Q	.
21.750	359.8078	483.15	.	.	.V	.	.Q	.
21.833	363.1072	479.07	.	.	.V	.	.Q	.
21.917	366.3987	477.93	.	.	.V	.	.Q	.
22.000	369.6931	478.35	.	.	.V	.	.Q	.
22.083	372.9785	477.03	.	.	.V	.	.Q	.
22.167	376.2591	476.34	.	.	.V	.	.Q	.
22.250	379.5249	474.20	.	.	.V	.	.Q	.
22.333	382.7075	462.12	.	.	.V	.Q	.	.
22.417	385.8214	452.14	.	.	.V	.Q	.	.
22.500	388.8942	446.16	.	.	.VQ	.	.	.
22.583	391.9436	442.78	.	.	.VQ	.	.	.
22.667	394.9771	440.46	.	.	.VQ	.	.	.
22.750	398.0168	441.37	.	.	.Q	.	.	.
22.833	401.0133	435.09	.	.	.Q	.	.	.
22.917	403.9415	425.17	.	.	.QV	.	.	.
23.000	406.8395	420.80	.	.	.QV	.	.	.
23.083	409.7168	417.78	.	.	.Q V	.	.	.
23.167	412.5573	412.44	.	.	.Q V	.	.	.
23.250	415.3448	404.75	.	.	.Q V	.	.	.

23.333	418.0788	396.97	.	.	.	.	.Q	V	.
23.417	420.7392	386.29	.	.	.	.	.Q	V	.
23.500	423.3610	380.69	.	.	.	.	.Q	V	.
23.583	425.9509	376.06	.	.	.	.	.Q	.V	.
23.667	428.5098	371.55	.	.	.	.	.Q	.V	.
23.750	431.0329	366.35	.	.	.	.	.Q	.V	.
23.833	433.5226	361.52	.	.	.	.	.Q	.V	.
23.917	435.9835	357.32	.	.	.	.	.Q	.V	.
24.000	438.4100	352.33	.	.	.	.	.Q	.V	.
24.083	440.7936	346.09	.	.	.	.	.Q	.V	.
24.167	443.1298	339.22	.	.	.	.	.Q	.V	.
24.250	445.4240	333.11	.	.	.	.	.Q	.V	.
24.333	447.6794	327.49	.	.	.	.	.Q	.V	.
24.417	449.9000	322.43	.	.	.	.	.Q	.V	.
24.500	452.0903	318.04	.	.	.	.	.Q	.V	.
24.583	454.2473	313.19	.	.	.	.	.Q	.V	.
24.667	456.3615	306.99	.	.	.	.	.Q	.V	.
24.750	458.4402	301.83	.	.	.	.	.Q	.V	.
24.833	460.4857	297.00	.	.	.	.Q	.	.V	.
24.917	462.4987	292.29	.	.	.	.Q	.	.V	.
25.000	464.4674	285.85	.	.	.	.Q	.	.V	.
25.083	466.3984	280.38	.	.	.	.Q	.	.V	.
25.167	468.2971	275.68	.	.	.	.Q	.	.V	.
25.250	470.1642	271.10	.	.	.	.Q	.	.V	.
25.333	471.9988	266.39	.	.	.	.Q	.	.V	.
25.417	473.8012	261.71	.	.	.	.Q	.	.V	.
25.500	475.5699	256.81	.	.	.	.Q	.	.V	.
25.583	477.3091	252.53	.	.	.	.Q	.	.V	.
25.667	479.0191	248.30	.	.	.	.Q	.	.V	.
25.750	480.6997	244.02	.	.	.	.Q	.	.V	.
25.833	482.3509	239.76	.	.	.	.Q	.	.V	.
25.917	483.9724	235.44	.	.	.	.Q	.	.V	.
26.000	485.5625	230.88	.	.	.	.Q	.	.V	.
26.083	487.1250	226.87	.	.	.	.Q	.	.V	.
26.167	488.6611	223.05	.	.	.	.Q	.	.V	.
26.250	490.1704	219.14	.	.	.	.Q	.	.V	.
26.333	491.6519	215.11	.	.	.	.Q	.	.V	.
26.417	493.1053	211.03	.	.	.	.Q	.	.V	.
26.500	494.5256	206.23	.	.	.	.Q	.	.V	.
26.583	495.9111	201.18	.	.	.	.Q	.	.V	.
26.667	497.2725	197.67	.	.	.	.Q	.	.V	.
26.750	498.6105	194.29	.	.	.	.Q	.	.V	.
26.833	499.9239	190.70	.	.	.	.Q	.	.V	.
26.917	501.2086	186.55	.	.	.	.Q	.	.V	.
27.000	502.4678	182.83	.	.	.	.Q	.	.V	.
27.083	503.7038	179.47	.	.	.	.Q	.	.V	.
27.167	504.9166	176.10	.	.	.	.Q	.	.V	.
27.250	506.1057	172.65	.	.	.	.Q	.	.V	.
27.333	507.2675	168.69	.	.	.	.Q	.	.V	.
27.417	508.3972	164.05	.	.	.	.Q	.	.V	.
27.500	509.5029	160.54	.	.	.	.Q	.	.V	.
27.583	510.5852	157.16	.	.	.	.Q	.	.V	.
27.667	511.6444	153.79	.	.	.	.Q	.	.V	.
27.750	512.6818	150.62	.	.	.	.Q	.	.V	.
27.833	513.6976	147.50	.	.	.	.Q	.	.V	.
27.917	514.6922	144.42	.	.	.	.Q	.	.V	.
28.000	515.6663	141.43	.	.	.	.Q	.	.V	.
28.083	516.6194	138.40	.	.	.	.Q	.	.V	.

28.167	517.5513	135.31	.	Q.	.	.	V	.
28.250	518.4629	132.36	.	Q	.	.	V	.
28.333	519.3544	129.44	.	Q	.	.	V	.
28.417	520.2239	126.26	.	Q	.	.	V	.
28.500	521.0734	123.34	.	Q	.	.	V	.
28.583	521.9044	120.67	.	Q	.	.	V	.
28.667	522.7183	118.17	.	Q	.	.	V	.
28.750	523.5067	114.48	.	Q	.	.	V	.
28.833	524.2703	110.88	.	Q	.	.	V	.
28.917	525.0133	107.88	.	Q	.	.	V	.
29.000	525.7380	105.23	.	Q	.	.	V	.
29.083	526.4425	102.30	.	Q	.	.	V	.
29.167	527.1268	99.36	.	Q	.	.	V	.
29.250	527.7908	96.41	.	Q	.	.	V	.
29.333	528.4331	93.25	.	Q	.	.	V	.
29.417	529.0529	90.00	.	Q	.	.	V	.
29.500	529.6549	87.41	.	Q	.	.	V	.
29.583	530.2405	85.02	.	Q	.	.	V	.
29.667	530.8094	82.61	.	Q	.	.	V	.
29.750	531.3632	80.41	.	Q	.	.	V	.
29.833	531.9030	78.38	.	Q	.	.	V	.
29.917	532.4279	76.23	.	Q	.	.	V	.
30.000	532.9375	73.99	.	Q	.	.	V	.
30.083	533.4309	71.64	.	Q	.	.	V	.
30.167	533.9068	69.10	.	Q	.	.	V	.
30.250	534.3643	66.43	.	Q	.	.	V	.
30.333	534.8063	64.18	.	Q	.	.	V	.
30.417	535.2341	62.13	.	Q	.	.	V	.
30.500	535.6486	60.18	.	Q	.	.	V	.
30.583	536.0500	58.29	.	Q	.	.	V	.
30.667	536.4382	56.37	.	Q	.	.	V	.
30.750	536.8130	54.41	.	Q	.	.	V	.
30.833	537.1750	52.57	.	Q	.	.	V	.
30.917	537.5267	51.06	.	Q	.	.	V	.
31.000	537.8679	49.54	.	Q	.	.	V	.
31.083	538.1981	47.94	.	Q	.	.	V	.
31.167	538.5175	46.38	.	Q	.	.	V	.
31.250	538.8260	44.80	.	Q	.	.	V	.
31.333	539.1248	43.38	.	Q	.	.	V	.
31.417	539.4148	42.12	.	Q	.	.	V	.
31.500	539.6971	40.99	.	Q	.	.	V	.
31.583	539.9714	39.82	.	Q	.	.	V	.
31.667	540.2378	38.68	.	Q	.	.	V	.
31.750	540.4963	37.54	.	Q	.	.	V	.
31.833	540.7470	36.40	.	Q	.	.	V	.
31.917	540.9897	35.23	.	Q	.	.	V	.
32.000	541.2243	34.07	.	Q	.	.	V	.
32.083	541.4513	32.96	.	Q	.	.	V	.
32.167	541.6710	31.90	.	Q	.	.	V	.
32.250	541.8834	30.85	.	Q	.	.	V	.
32.333	542.0889	29.83	.	Q	.	.	V	.
32.417	542.2877	28.87	.	Q	.	.	V	.
32.500	542.4796	27.86	.	Q	.	.	V	.
32.583	542.6646	26.86	.	Q	.	.	V	.
32.667	542.8434	25.97	.	Q	.	.	V	.
32.750	543.0164	25.10	.	Q	.	.	V	.
32.833	543.1833	24.25	.	Q	.	.	V	.
32.917	543.3445	23.40	.	Q	.	.	V	.

33.000	543.5005	22.65	.	Q	.	.	V	.
33.083	543.6516	21.95	.	Q	.	.	V	.
33.167	543.7979	21.24	.	Q	.	.	V	.
33.250	543.9395	20.55	.	Q	.	.	V	.
33.333	544.0762	19.86	.	Q	.	.	V	.
33.417	544.2084	19.19	.	Q	.	.	V	.
33.500	544.3363	18.56	.	Q	.	.	V	.
33.583	544.4598	17.94	.	Q	.	.	V	.
33.667	544.5791	17.31	.	Q	.	.	V	.
33.750	544.6941	16.70	.	Q	.	.	V	.
33.833	544.8054	16.16	.	Q	.	.	V	.
33.917	544.9131	15.64	.	Q	.	.	V	.
34.000	545.0174	15.14	.	Q	.	.	V	.
34.083	545.1183	14.65	Q	.	.	.	V	.
34.167	545.2159	14.17	Q	.	.	.	V	.
34.250	545.3102	13.70	Q	.	.	.	V	.
34.333	545.4010	13.18	Q	.	.	.	V	.
34.417	545.4879	12.61	Q	.	.	.	V	.
34.500	545.5679	11.63	Q	.	.	.	V	.
34.583	545.6446	11.13	Q	.	.	.	V	.
34.667	545.7187	10.76	Q	.	.	.	V	.
34.750	545.7904	10.41	Q	.	.	.	V	.
34.833	545.8593	10.00	Q	.	.	.	V	.
34.917	545.9252	9.57	Q	.	.	.	V	.
35.000	545.9881	9.14	Q	.	.	.	V	.
35.083	546.0481	8.71	Q	.	.	.	V	.
35.167	546.1051	8.28	Q	.	.	.	V	.
35.250	546.1591	7.84	Q	.	.	.	V	.
35.333	546.2103	7.43	Q	.	.	.	V	.
35.417	546.2590	7.08	Q	.	.	.	V	.
35.500	546.3058	6.79	Q	.	.	.	V	.
35.583	546.3506	6.51	Q	.	.	.	V	.
35.667	546.3936	6.24	Q	.	.	.	V	.
35.750	546.4347	5.97	Q	.	.	.	V	.
35.833	546.4739	5.70	Q	.	.	.	V	.
35.917	546.5114	5.44	Q	.	.	.	V	.
36.000	546.5471	5.18	Q	.	.	.	V	.

-----

TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
 (Note: 100% of Peak Flow Rate estimate assumed to have  
 an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
0%	2165.0
10%	1560.0
20%	1295.0
30%	955.0
40%	735.0
50%	600.0
60%	495.0
70%	400.0
80%	310.0
90%	210.0

=====

END OF FLOODSCx ROUTING ANALYSIS





\*\*\*\*\*

FLOOD ROUTING ANALYSIS
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)
(c) Copyright 1989-2013 Advanced Engineering Software (aes)
Ver. 20.0 Release Date: 06/01/2013 License ID 1237

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*
\* RMV PA-3 BODR 2022 - NODE 126 \*
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*
\* 2-YR EV JULY 2022 ROKAMOTO \*

FILE NAME: EVO2126S.DAT
TIME/DATE OF STUDY: 11:58 07/25/2022

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 126.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<

\*\*\*\*\*

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 50438.699 ACRES
BASEFLOW = 0.000 CFS/SQUARE-MILE
\*USER ENTERED "LAG" TIME = 5.554 HOURS
VALLEY (DEVELOPED) S-GRAPH SELECTED
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.594
LOW LOSS FRACTION = 0.930
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.16
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.30
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 0.41
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 0.77
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 1.14
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 2.02

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:
5-MINUTE FACTOR = 0.341
30-MINUTE FACTOR = 0.392
1-HOUR FACTOR = 0.432
3-HOUR FACTOR = 0.782
6-HOUR FACTOR = 0.902
24-HOUR FACTOR = 0.943

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 1.500

UNIT HYDROGRAPH DETERMINATION

Table with 3 columns: INTERVAL NUMBER, "S" GRAPH MEAN VALUES, UNIT HYDROGRAPH ORDINATES (CFS). Rows 1-48.

49	27.155	5230.237
50	28.057	5505.921
51	29.217	7074.883
52	30.345	6883.585
53	31.348	6115.591
54	32.528	7199.200
55	33.983	8874.387
56	35.219	7536.932
57	36.275	6442.386
58	37.080	4909.143
59	37.944	5273.425
60	39.552	9810.840
61	40.971	8652.560
62	42.268	7911.615
63	43.671	8561.227
64	45.001	8113.082
65	46.367	8328.998
66	47.933	9552.782
67	49.681	10663.942
68	50.930	7616.327
69	52.021	6656.535
70	53.112	6656.046
71	54.182	6525.993
72	55.187	6128.505
73	56.234	6389.542
74	57.425	7262.469
75	58.694	7745.868
76	60.080	8450.558
77	61.723	10021.776
78	63.082	8293.745
79	64.281	7311.125
80	65.329	6391.031
81	66.348	6218.279
82	67.330	5987.074
83	68.393	6487.319
84	69.613	7438.153
85	70.604	6046.597
86	71.479	5338.929
87	72.396	5593.030
88	73.373	5959.244
89	74.330	5841.175
90	75.254	5635.707
91	76.116	5258.510
92	76.795	4139.903
93	77.462	4070.468
94	78.129	4065.488
95	78.796	4067.443
96	79.463	4069.444
97	80.139	4125.058
98	80.843	4295.762
99	81.549	4307.629
100	82.228	4136.972
101	82.860	3859.042
102	83.492	3855.040
103	84.109	3763.730
104	84.684	3503.719
105	85.255	3487.802
106	85.825	3471.979

107	86.322	3033.211
108	86.784	2816.853
109	87.245	2814.851
110	87.707	2818.854
111	88.128	2566.753
112	88.482	2159.771
113	88.835	2153.815
114	89.188	2151.860
115	89.541	2155.816
116	89.893	2147.858
117	90.221	2000.981
118	90.537	1925.589
119	90.853	1925.542
120	91.169	1929.498
121	91.485	1925.542
122	91.801	1927.543
123	92.105	1856.060
124	92.392	1748.881
125	92.677	1740.923
126	92.963	1742.924
127	93.249	1746.880
128	93.534	1738.968
129	93.820	1742.877
130	94.070	1524.564
131	94.261	1167.239
132	94.452	1163.283
133	94.643	1163.237
134	94.833	1159.328
135	95.024	1163.283
136	95.214	1163.237
137	95.404	1159.328
138	95.596	1167.239
139	95.786	1159.281
140	95.971	1131.497
141	96.103	802.003
142	96.221	722.561
143	96.338	714.649
144	96.457	722.561
145	96.574	714.649
146	96.691	714.603
147	96.809	722.608
148	96.927	714.603
149	97.044	718.605
150	97.162	718.605
151	97.280	718.605
152	97.397	714.649
153	97.516	722.561
154	97.633	714.649
155	97.751	718.605
156	97.868	718.605
157	97.979	674.952
158	98.025	281.885
159	98.053	170.704
160	98.081	170.704
161	98.109	170.751
162	98.138	174.660
163	98.166	170.704
164	98.195	174.707

165	98.221	162.793
166	98.251	182.618
167	98.278	166.748
168	98.306	166.748
169	98.335	178.662
170	98.362	166.748
171	98.391	174.707
172	98.419	170.704
173	98.447	170.704
174	98.475	170.704
175	98.504	174.707
176	98.532	170.704
177	98.560	170.751
178	98.588	170.704
179	98.616	170.704
180	98.644	174.707
181	98.673	174.707
182	98.700	166.748
183	98.729	174.660
184	98.756	166.748
185	98.785	174.707
186	98.812	166.748
187	98.841	174.660
188	98.869	174.707
189	98.898	174.707
190	98.925	166.748
191	98.953	166.748
192	98.981	174.660
193	99.011	182.618
194	99.040	174.660
195	99.069	174.660
196	99.097	174.660
197	99.126	174.660
198	99.154	174.660
199	99.183	174.660
200	99.212	174.660
201	99.240	174.660
202	99.269	174.660
203	99.298	174.660
204	99.326	174.660
205	99.355	174.660
206	99.384	174.660
207	99.412	174.660
208	99.441	174.660
209	99.469	174.660
210	99.498	174.660
211	99.527	174.660
212	99.555	174.660
213	99.584	174.660
214	99.613	174.660
215	99.641	174.660
216	99.670	174.660
217	99.699	174.660
218	99.727	174.660
219	99.756	174.660
220	99.784	174.660
221	99.813	174.660
222	99.842	174.660

223	99.870	174.660
224	99.899	174.660
225	99.928	174.660
226	99.956	174.660
227	99.985	174.660
228	100.000	92.379

-----

TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 7430.9917

TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 559.1462

-----

2 4 - 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 FIVE-MINUTE UNIT INTERVALS (CFS)

(Note: Time indicated is at END of Each Unit Intervals)

TIME (HRS)	VOLUME (AF)	Q (CFS)	0.	150.0	300.0	450.0	600.0
0.083	0.0007	0.11	Q	.	.	.	.
0.167	0.0029	0.32	Q	.	.	.	.
0.250	0.0066	0.54	Q	.	.	.	.
0.333	0.0118	0.75	Q	.	.	.	.
0.417	0.0185	0.97	Q	.	.	.	.
0.500	0.0266	1.18	Q	.	.	.	.
0.583	0.0363	1.40	Q	.	.	.	.
0.667	0.0474	1.62	Q	.	.	.	.
0.750	0.0601	1.84	Q	.	.	.	.
0.833	0.0743	2.06	Q	.	.	.	.
0.917	0.0900	2.28	Q	.	.	.	.
1.000	0.1072	2.50	Q	.	.	.	.
1.083	0.1266	2.81	Q	.	.	.	.
1.167	0.1483	3.15	Q	.	.	.	.
1.250	0.1722	3.48	Q	.	.	.	.
1.333	0.1985	3.82	Q	.	.	.	.
1.417	0.2271	4.15	Q	.	.	.	.
1.500	0.2581	4.49	Q	.	.	.	.
1.583	0.2914	4.83	Q	.	.	.	.
1.667	0.3274	5.23	Q	.	.	.	.
1.750	0.3676	5.83	Q	.	.	.	.
1.833	0.4120	6.45	Q	.	.	.	.
1.917	0.4607	7.07	Q	.	.	.	.
2.000	0.5138	7.71	Q	.	.	.	.
2.083	0.5724	8.50	Q	.	.	.	.
2.167	0.6365	9.32	Q	.	.	.	.
2.250	0.7064	10.15	Q	.	.	.	.
2.333	0.7831	11.13	Q	.	.	.	.
2.417	0.8668	12.16	Q	.	.	.	.
2.500	0.9576	13.17	Q	.	.	.	.
2.583	1.0550	14.15	Q	.	.	.	.
2.667	1.1592	15.13	VQ	.	.	.	.
2.750	1.2702	16.11	VQ	.	.	.	.
2.833	1.3880	17.10	VQ	.	.	.	.
2.917	1.5130	18.16	VQ	.	.	.	.
3.000	1.6483	19.65	VQ	.	.	.	.
3.083	1.7932	21.03	VQ	.	.	.	.
3.167	1.9453	22.10	VQ	.	.	.	.
3.250	2.1049	23.16	VQ	.	.	.	.
3.333	2.2718	24.24	VQ	.	.	.	.
3.417	2.4461	25.31	VQ	.	.	.	.
3.500	2.6284	26.48	VQ	.	.	.	.
3.583	2.8199	27.80	VQ	.	.	.	.
3.667	3.0212	29.23	VQ	.	.	.	.
3.750	3.2334	30.81	V Q	.	.	.	.
3.833	3.4546	32.12	V Q	.	.	.	.
3.917	3.6839	33.29	V Q	.	.	.	.

4.000	3.9213	34.47	V Q	.	.	.	.
4.083	4.1668	35.65	V Q	.	.	.	.
4.167	4.4209	36.89	V Q	.	.	.	.
4.250	4.6857	38.45	V Q	.	.	.	.
4.333	4.9611	39.98	V Q	.	.	.	.
4.417	5.2459	41.36	V Q	.	.	.	.
4.500	5.5419	42.97	V Q	.	.	.	.
4.583	5.8513	44.93	V Q	.	.	.	.
4.667	6.1723	46.61	V Q	.	.	.	.
4.750	6.5035	48.08	V Q	.	.	.	.
4.833	6.8426	49.24	V Q	.	.	.	.
4.917	7.1903	50.48	V Q	.	.	.	.
5.000	7.5529	52.66	V Q	.	.	.	.
5.083	7.9289	54.60	V Q	.	.	.	.
5.167	8.3173	56.40	V Q	.	.	.	.
5.250	8.7191	58.33	V Q	.	.	.	.
5.333	9.1336	60.19	V Q	.	.	.	.
5.417	9.5612	62.09	V Q	.	.	.	.
5.500	10.0037	64.25	V Q	.	.	.	.
5.583	10.4628	66.65	V Q	.	.	.	.
5.667	10.9340	68.43	V Q	.	.	.	.
5.750	11.4162	70.02	V Q	.	.	.	.
5.833	11.9095	71.62	V Q	.	.	.	.
5.917	12.4136	73.19	V Q	.	.	.	.
6.000	12.9280	74.70	V Q	.	.	.	.
6.083	13.4532	76.26	V Q	.	.	.	.
6.167	13.9904	78.00	.V Q	.	.	.	.
6.250	14.5404	79.86	.V Q	.	.	.	.
6.333	15.1041	81.86	.V Q	.	.	.	.
6.417	15.6840	84.19	.V Q	.	.	.	.
6.500	16.2775	86.18	.V Q	.	.	.	.
6.583	16.8834	87.97	.V Q	.	.	.	.
6.667	17.5003	89.59	.V Q	.	.	.	.
6.750	18.1283	91.17	.V Q	.	.	.	.
6.833	18.7668	92.72	.V Q	.	.	.	.
6.917	19.4168	94.37	.V Q	.	.	.	.
7.000	20.0795	96.23	.V Q	.	.	.	.
7.083	20.7531	97.81	.V Q	.	.	.	.
7.167	21.4366	99.25	.V Q	.	.	.	.
7.250	22.1305	100.75	.V Q	.	.	.	.
7.333	22.8352	102.33	.V Q	.	.	.	.
7.417	23.5507	103.90	.V Q	.	.	.	.
7.500	24.2768	105.43	.V Q	.	.	.	.
7.583	25.0130	106.89	.V Q	.	.	.	.
7.667	25.7576	108.13	.V Q	.	.	.	.
7.750	26.5108	109.36	.V Q	.	.	.	.
7.833	27.2724	110.59	.V Q	.	.	.	.
7.917	28.0427	111.84	.V Q	.	.	.	.
8.000	28.8216	113.09	.V Q	.	.	.	.
8.083	29.6092	114.36	.V Q	.	.	.	.
8.167	30.4058	115.67	.V Q	.	.	.	.
8.250	31.2116	117.00	.V Q	.	.	.	.
8.333	32.0262	118.29	.V Q	.	.	.	.
8.417	32.8495	119.54	.V Q	.	.	.	.
8.500	33.6813	120.79	.V Q	.	.	.	.
8.583	34.5218	122.03	.V Q	.	.	.	.
8.667	35.3704	123.22	.V Q	.	.	.	.
8.750	36.2273	124.42	.V Q	.	.	.	.

8.833	37.0925	125.62	. V	Q .	.	.	.
8.917	37.9654	126.75	. V	Q .	.	.	.
9.000	38.8458	127.83	. V	Q .	.	.	.
9.083	39.7337	128.92	. V	Q .	.	.	.
9.167	40.6292	130.02	. V	Q .	.	.	.
9.250	41.5319	131.08	. V	Q .	.	.	.
9.333	42.4414	132.06	. V	Q .	.	.	.
9.417	43.3578	133.05	. V	Q .	.	.	.
9.500	44.2810	134.05	. V	Q .	.	.	.
9.583	45.2111	135.05	. V	Q .	.	.	.
9.667	46.1482	136.06	. V	Q .	.	.	.
9.750	47.0921	137.06	. V	Q .	.	.	.
9.833	48.0428	138.04	. V	Q .	.	.	.
9.917	49.0003	139.03	. V	Q .	.	.	.
10.000	49.9647	140.03	. V	Q .	.	.	.
10.083	50.9360	141.04	. V	Q .	.	.	.
10.167	51.9144	142.06	. V	Q .	.	.	.
10.250	52.8997	143.07	. V	Q .	.	.	.
10.333	53.8920	144.07	. V	Q .	.	.	.
10.417	54.8912	145.08	. V	Q .	.	.	.
10.500	55.8974	146.10	. V	Q .	.	.	.
10.583	56.9107	147.13	. V	Q .	.	.	.
10.667	57.9312	148.17	. V	Q .	.	.	.
10.750	58.9589	149.22	. V	Q .	.	.	.
10.833	59.9936	150.24	. V	Q .	.	.	.
10.917	61.0348	151.19	. V	Q .	.	.	.
11.000	62.0828	152.16	. V	Q .	.	.	.
11.083	63.1374	153.13	. V	Q .	.	.	.
11.167	64.1988	154.12	. V	Q .	.	.	.
11.250	65.2671	155.12	. V	Q .	.	.	.
11.333	66.3423	156.13	. V	Q .	.	.	.
11.417	67.4246	157.15	. V	Q .	.	.	.
11.500	68.5141	158.18	. V	Q .	.	.	.
11.583	69.6107	159.23	. V	Q .	.	.	.
11.667	70.7146	160.29	. V	Q .	.	.	.
11.750	71.8254	161.29	. V	Q .	.	.	.
11.833	72.9431	162.29	. V	Q .	.	.	.
11.917	74.0678	163.30	. V	Q .	.	.	.
12.000	75.1995	164.33	. V	Q .	.	.	.
12.083	76.3396	165.54	. V	.Q	.	.	.
12.167	77.4893	166.94	. V	.Q	.	.	.
12.250	78.6488	168.35	. V	.Q	.	.	.
12.333	79.8181	169.78	. V	.Q	.	.	.
12.417	80.9973	171.22	. V	.Q	.	.	.
12.500	82.1866	172.68	. V	.Q	.	.	.
12.583	83.3860	174.16	. V	.Q	.	.	.
12.667	84.5957	175.65	. V	.Q	.	.	.
12.750	85.8158	177.16	. V	.Q	.	.	.
12.833	87.0464	178.68	. V	.Q	.	.	.
12.917	88.2876	180.23	. V	.Q	.	.	.
13.000	89.5396	181.80	. V	.Q	.	.	.
13.083	90.8035	183.51	. V	.Q	.	.	.
13.167	92.0789	185.20	. V	.Q	.	.	.
13.250	93.3660	186.89	. V	.Q	.	.	.
13.333	94.6648	188.59	. V	.Q	.	.	.
13.417	95.9756	190.32	. V	.Q	.	.	.
13.500	97.2984	192.07	. V	.Q	.	.	.
13.583	98.6333	193.84	. V	.Q	.	.	.

13.667	99.9813	195.73	. V	. Q	.	.	.
13.750	101.3447	197.96	. V	. Q	.	.	.
13.833	102.7238	200.24	. V	. Q	.	.	.
13.917	104.1187	202.54	. V	. Q	.	.	.
14.000	105.5299	204.91	. V	. Q	.	.	.
14.083	106.9606	207.73	. V	. Q	.	.	.
14.167	108.4125	210.81	. V	. Q	.	.	.
14.250	109.8858	213.93	. V	. Q	.	.	.
14.333	111.3823	217.30	. V	. Q	.	.	.
14.417	112.9026	220.75	. V	. Q	.	.	.
14.500	114.4465	224.17	. V	. Q	.	.	.
14.583	116.0137	227.55	. V	. Q	.	.	.
14.667	117.6041	230.93	. V	. Q	.	.	.
14.750	119.2179	234.33	. V	. Q	.	.	.
14.833	120.8552	237.73	. V	. Q	.	.	.
14.917	122.5168	241.27	. V	. Q	.	.	.
15.000	124.2076	245.50	. V	. Q	.	.	.
15.083	125.9274	249.72	. V	. Q	.	.	.
15.167	127.6731	253.48	. V	. Q	.	.	.
15.250	129.4448	257.25	. V	. Q	.	.	.
15.333	131.2424	261.01	. V	. Q	.	.	.
15.417	133.0642	264.52	. V	. Q	.	.	.
15.500	134.9094	267.93	. V	. Q	.	.	.
15.583	136.7803	271.66	. V	. Q	.	.	.
15.667	138.6792	275.72	. V	. Q	.	.	.
15.750	140.6100	280.35	. V	. Q	.	.	.
15.833	142.5697	284.54	. V	. Q	.	.	.
15.917	144.5578	288.68	. V	. Q	.	.	.
16.000	146.5771	293.20	. V	. Q	.	.	.
16.083	148.6393	299.44	. V	. Q	.	.	.
16.167	150.7436	305.53	. V	. Q	.	.	.
16.250	152.8828	310.62	. V	. Q	.	.	.
16.333	155.0581	315.85	. V	. Q	.	.	.
16.417	157.2680	320.88	. V	. Q	.	.	.
16.500	159.5159	326.39	. V	. Q	.	.	.
16.583	161.8052	332.41	. V	. Q	.	.	.
16.667	164.1330	338.00	. V	. Q	.	.	.
16.750	166.4965	343.18	. V	. Q	.	.	.
16.833	168.8922	347.86	. V	. Q	.	.	.
16.917	171.3228	352.93	. V	. Q	.	.	.
17.000	173.8047	360.36	. V	. Q	.	.	.
17.083	176.3350	367.40	. V	. Q	.	.	.
17.167	178.9000	372.44	. V	. Q	.	.	.
17.250	181.4991	377.38	. V	. Q	.	.	.
17.333	184.1301	382.02	. V	. Q	.	.	.
17.417	186.7914	386.42	. V	. Q	.	.	.
17.500	189.4879	391.53	. V	. Q	.	.	.
17.583	192.2268	397.69	. V	. Q	.	.	.
17.667	195.0072	403.72	. V	. Q	.	.	.
17.750	197.8377	411.00	. V	. Q	.	.	.
17.833	200.6974	415.22	. V	. Q	.	.	.
17.917	203.5847	419.24	. V	. Q	.	.	.
18.000	206.5019	423.58	. V	. Q	.	.	.
18.083	209.4600	429.51	. V	. Q	.	.	.
18.167	212.4499	434.13	. V	. Q	.	.	.
18.250	215.4768	439.50	. V	. Q	.	.	.
18.333	218.5458	445.63	. V	. Q	.	.	.
18.417	221.6510	450.86	. V	. Q	.	.	.

18.500	224.7910	455.94	.	.	V	.	Q	.
18.583	227.9666	461.10	.	.	V	.	Q	.
18.667	231.1744	465.76	.	.	V	.	.Q	.
18.750	234.4108	469.93	.	.	V	.	.Q	.
18.833	237.6753	474.01	.	.	V	.	.Q	.
18.917	240.9758	479.23	.	.	V	.	.Q	.
19.000	244.3480	489.64	.	.	V	.	.Q	.
19.083	247.7258	490.45	.	.	V	.	.Q	.
19.167	251.0939	489.05	.	.	V	.	.Q	.
19.250	254.4865	492.61	.	.	V	.	.Q	.
19.333	257.9082	496.83	.	.	V	.	.Q	.
19.417	261.3593	501.10	.	.	V	.	.Q	.
19.500	264.8481	506.58	.	.	V	.	.Q	.
19.583	268.3777	512.50	.	.	V.	.	.Q	.
19.667	271.9276	515.44	.	.	V.	.	.Q	.
19.750	275.4939	517.83	.	.	V.	.	.Q	.
19.833	279.0340	514.02	.	.	V.	.	.Q	.
19.917	282.5563	511.44	.	.	V	.	.Q	.
20.000	286.0754	510.97	.	.	V	.	.Q	.
20.083	289.6037	512.31	.	.	V	.	.Q	.
20.167	293.1553	515.70	.	.	V	.	.Q	.
20.250	296.7442	521.10	.	.	.V	.	.Q	.
20.333	300.3205	519.28	.	.	.V	.	.Q	.
20.417	303.8885	518.07	.	.	.V	.	.Q	.
20.500	307.4820	521.78	.	.	.V	.	.Q	.
20.583	311.0989	525.17	.	.	.V	.	.Q	.
20.667	314.6694	518.44	.	.	.V	.	.Q	.
20.750	318.1961	512.08	.	.	.V	.	.Q	.
20.833	321.6858	506.69	.	.	.V	.	.Q	.
20.917	325.1869	508.37	.	.	.V	.	.Q	.
21.000	328.7707	520.36	.	.	.V	.	.Q	.
21.083	332.3232	515.82	.	.	.V	.	.Q	.
21.167	335.8497	512.05	.	.	.V	.	.Q	.
21.250	339.3671	510.73	.	.	.V	.	.Q	.
21.333	342.8773	509.68	.	.	.V	.	.Q	.
21.417	346.3952	510.80	.	.	.V	.	.Q	.
21.500	349.9227	512.19	.	.	.V	.	.Q	.
21.583	353.4377	510.39	.	.	.V	.	.Q	.
21.667	356.8607	497.02	.	.	.V	.	.Q	.
21.750	360.2322	489.55	.	.	.V	.	.Q	.
21.833	363.5868	487.08	.	.	.V	.	.Q	.
21.917	366.9325	485.80	.	.	.V	.	.Q	.
22.000	370.2494	481.61	.	.	.V	.	.Q	.
22.083	373.5506	479.34	.	.	.V	.	.Q	.
22.167	376.8519	479.35	.	.	.V	.	.Q	.
22.250	380.1403	477.48	.	.	.V	.	.Q	.
22.333	383.4143	475.38	.	.	.V	.	.Q	.
22.417	386.6847	474.86	.	.	.V	.	.Q	.
22.500	389.8856	464.77	.	.	.V	.Q	.	.
22.583	393.0245	455.78	.	.	.V	.Q	.	.
22.667	396.1136	448.53	.	.	.VQ.	.	.	.
22.750	399.1825	445.61	.	.	.VQ.	.	.	.
22.833	402.2338	443.04	.	.	.VQ.	.	.	.
22.917	405.2759	441.72	.	.	.VQ.	.	.	.
23.000	408.3011	439.25	.	.	.Q.	.	.	.
23.083	411.2669	430.64	.	.	.QV.	.	.	.
23.167	414.1887	424.25	.	.	.QV.	.	.	.
23.250	417.0826	420.18	.	.	.QV.	.	.	.

23.333	419.9512	416.53	.	.	.	.	Q	V	.
23.417	422.7744	409.94	.	.	.	.	Q	V	.
23.500	425.5464	402.50	.	.	.	.	Q	V	.
23.583	428.2625	394.37	.	.	.	.	Q	V	.
23.667	430.9222	386.19	.	.	.	.	Q	V	.
23.750	433.5494	381.47	.	.	.	.	Q	.V	.
23.833	436.1451	376.89	.	.	.	.	Q	.V	.
23.917	438.7083	372.18	.	.	.	.	Q	.V	.
24.000	441.2353	366.92	.	.	.	.	Q	.V	.
24.083	443.7294	362.14	.	.	.	.	Q	.V	.
24.167	446.1908	357.39	.	.	.	.	Q	.V	.
24.250	448.6148	351.97	.	.	.	.	Q	.V	.
24.333	450.9956	345.69	.	.	.	.	Q	.V	.
24.417	453.3281	338.68	.	.	.	.	Q	.V	.
24.500	455.6218	333.04	.	.	.	.	Q	.V	.
24.583	457.8791	327.77	.	.	.	.	Q	.V	.
24.667	460.1038	323.02	.	.	.	.	Q	.V	.
24.750	462.2996	318.83	.	.	.	.	Q	.V	.
24.833	464.4650	314.41	.	.	.	.	Q	.V	.
24.917	466.5905	308.62	.	.	.	.	Q	.V	.
25.000	468.6788	303.23	.	.	.	.	Q	.V	.
25.083	470.7365	298.77	.	.	.	.	Q.	.V	.
25.167	472.7628	294.23	.	.	.	.	Q.	.V	.
25.250	474.7506	288.62	.	.	.	.	Q.	.V	.
25.333	476.6968	282.59	.	.	.	.	Q.	.V	.
25.417	478.6107	277.90	.	.	.	.	Q.	.V	.
25.500	480.4931	273.33	.	.	.	.	Q.	.V	.
25.583	482.3447	268.85	.	.	.	.	Q.	.V	.
25.667	484.1665	264.53	.	.	.	.	Q.	.V	.
25.750	485.9540	259.55	.	.	.	.	Q.	.V	.
25.833	487.7087	254.78	.	.	.	.	Q.	.V	.
25.917	489.4334	250.42	.	.	.	.	Q.	.V	.
26.000	491.1288	246.18	.	.	.	.	Q.	.V	.
26.083	492.7935	241.71	.	.	.	.	Q.	.V	.
26.167	494.4272	237.21	.	.	.	.	Q.	.V	.
26.250	496.0303	232.78	.	.	.	.	Q.	.V	.
26.333	497.6030	228.36	.	.	.	.	Q.	.V	.
26.417	499.1477	224.29	.	.	.	.	Q.	.V	.
26.500	500.6651	220.33	.	.	.	.	Q.	.V	.
26.583	502.1561	216.49	.	.	.	.	Q.	.V	.
26.667	503.6202	212.59	.	.	.	.	Q	.V	.
26.750	505.0572	208.65	.	.	.	.	Q	.V	.
26.833	506.4628	204.09	.	.	.	.	Q	.V	.
26.917	507.8362	199.42	.	.	.	.	Q	.V	.
27.000	509.1824	195.47	.	.	.	.	Q	.V	.
27.083	510.5036	191.84	.	.	.	.	Q	.V	.
27.167	511.8008	188.36	.	.	.	.	Q	.V	.
27.250	513.0736	184.81	.	.	.	.	Q	.V	.
27.333	514.3231	181.42	.	.	.	.	Q	.V	.
27.417	515.5496	178.10	.	.	.	.	.Q	.V	.
27.500	516.7529	174.71	.	.	.	.	.Q	.V	.
27.583	517.9307	171.03	.	.	.	.	.Q	.V	.
27.667	519.0816	167.11	.	.	.	.	.Q	.V	.
27.750	520.1997	162.35	.	.	.	.	.Q	.V	.
27.833	521.2933	158.78	.	.	.	.	.Q	.V	.
27.917	522.3658	155.74	.	.	.	.	.Q	.V	.
28.000	523.4182	152.79	.	.	.	.	.Q	.V	.
28.083	524.4492	149.70	.	.	.	.	.Q.	.V	.

28.167	525.4586	146.57	.	Q.	.	.	V	.
28.250	526.4446	143.17	.	Q.	.	.	V	.
28.333	527.4077	139.83	.	Q.	.	.	V	.
28.417	528.3493	136.73	.	Q.	.	.	V	.
28.500	529.2695	133.61	.	Q	.	.	V	.
28.583	530.1663	130.22	.	Q	.	.	V	.
28.667	531.0415	127.09	.	Q	.	.	V	.
28.750	531.8979	124.35	.	Q	.	.	V	.
28.833	532.7385	122.06	.	Q	.	.	V	.
28.917	533.5638	119.85	.	Q	.	.	V	.
29.000	534.3668	116.59	.	Q	.	.	V	.
29.083	535.1473	113.33	.	Q	.	.	V	.
29.167	535.9006	109.38	.	Q	.	.	V	.
29.250	536.6320	106.21	.	Q	.	.	V	.
29.333	537.3447	103.48	.	Q	.	.	V	.
29.417	538.0386	100.76	.	Q	.	.	V	.
29.500	538.7111	97.64	.	Q	.	.	V	.
29.583	539.3602	94.25	.	Q	.	.	V	.
29.667	539.9904	91.51	.	Q	.	.	V	.
29.750	540.6037	89.05	.	Q	.	.	V	.
29.833	541.2009	86.71	.	Q	.	.	V	.
29.917	541.7814	84.30	.	Q	.	.	V	.
30.000	542.3464	82.03	.	Q	.	.	V	.
30.083	542.8958	79.77	.	Q	.	.	V	.
30.167	543.4291	77.44	.	Q	.	.	V	.
30.250	543.9465	75.12	.	Q	.	.	V	.
30.333	544.4468	72.64	.	Q	.	.	V	.
30.417	544.9281	69.89	.	Q	.	.	V	.
30.500	545.3930	67.51	.	Q	.	.	V	.
30.583	545.8431	65.36	.	Q	.	.	V	.
30.667	546.2798	63.40	.	Q	.	.	V	.
30.750	546.7034	61.50	.	Q	.	.	V	.
30.833	547.1143	59.67	.	Q	.	.	V	.
30.917	547.5121	57.75	.	Q	.	.	V	.
31.000	547.8953	55.64	.	Q	.	.	V	.
31.083	548.2657	53.79	.	Q	.	.	V	.
31.167	548.6254	52.22	.	Q	.	.	V	.
31.250	548.9745	50.69	.	Q	.	.	V	.
31.333	549.3124	49.05	.	Q	.	.	V	.
31.417	549.6395	47.49	.	Q	.	.	V	.
31.500	549.9559	45.95	.	Q	.	.	V	.
31.583	550.2627	44.54	.	Q	.	.	V	.
31.667	550.5612	43.34	.	Q	.	.	V	.
31.750	550.8517	42.17	.	Q	.	.	V	.
31.833	551.1340	40.99	.	Q	.	.	V	.
31.917	551.4084	39.85	.	Q	.	.	V	.
32.000	551.6752	38.74	.	Q	.	.	V	.
32.083	551.9343	37.61	.	Q	.	.	V	.
32.167	552.1851	36.42	.	Q	.	.	V	.
32.250	552.4279	35.25	.	Q	.	.	V	.
32.333	552.6629	34.13	.	Q	.	.	V	.
32.417	552.8907	33.08	.	Q	.	.	V	.
32.500	553.1113	32.03	.	Q	.	.	V	.
32.583	553.3248	31.01	.	Q	.	.	V	.
32.667	553.5317	30.04	.	Q	.	.	V	.
32.750	553.7321	29.09	.	Q	.	.	V	.
32.833	553.9258	28.14	.	Q	.	.	V	.
32.917	554.1138	27.29	.	Q	.	.	V	.

33.000	554.2960	26.45	.	Q	.	.	V	.
33.083	554.4722	25.58	.	Q	.	.	V	.
33.167	554.6425	24.72	.	Q	.	.	V	.
33.250	554.8073	23.92	.	Q	.	.	V	.
33.333	554.9670	23.20	.	Q	.	.	V	.
33.417	555.1219	22.49	.	Q	.	.	V	.
33.500	555.2720	21.79	.	Q	.	.	V	.
33.583	555.4173	21.09	.	Q	.	.	V	.
33.667	555.5578	20.40	.	Q	.	.	V	.
33.750	555.6938	19.74	.	Q	.	.	V	.
33.833	555.8254	19.11	.	Q	.	.	V	.
33.917	555.9526	18.48	.	Q	.	.	V	.
34.000	556.0756	17.85	.	Q	.	.	V	.
34.083	556.1942	17.23	.	Q	.	.	V	.
34.167	556.3086	16.61	.	Q	.	.	V	.
34.250	556.4189	16.01	.	Q	.	.	V	.
34.333	556.5255	15.49	.	Q	.	.	V	.
34.417	556.6288	15.01	.	Q	.	.	V	.
34.500	556.7289	14.52	.	Q	.	.	V	.
34.583	556.8255	14.03	.	Q	.	.	V	.
34.667	556.9188	13.55	.	Q	.	.	V	.
34.750	557.0090	13.09	.	Q	.	.	V	.
34.833	557.0960	12.64	.	Q	.	.	V	.
34.917	557.1801	12.21	.	Q	.	.	V	.
35.000	557.2596	11.55	.	Q	.	.	V	.
35.083	557.3347	10.91	.	Q	.	.	V	.
35.167	557.4073	10.54	.	Q	.	.	V	.
35.250	557.4774	10.18	.	Q	.	.	V	.
35.333	557.5449	9.80	.	Q	.	.	V	.
35.417	557.6095	9.38	.	Q	.	.	V	.
35.500	557.6711	8.95	.	Q	.	.	V	.
35.583	557.7298	8.52	.	Q	.	.	V	.
35.667	557.7855	8.09	.	Q	.	.	V	.
35.750	557.8388	7.73	.	Q	.	.	V	.
35.833	557.8897	7.39	.	Q	.	.	V	.
35.917	557.9382	7.04	.	Q	.	.	V	.
36.000	557.9846	6.73	.	Q	.	.	V	.

-----  
 TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:

(Note: 100% of Peak Flow Rate estimate assumed to have an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
0%	2165.0
10%	1570.0
20%	1310.0
30%	985.0
40%	755.0
50%	620.0
60%	510.0
70%	410.0
80%	320.0
90%	220.0

-----  
 END OF FLOODSCx ROUTING ANALYSIS





\*\*\*\*\*

FLOOD ROUTING ANALYSIS  
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)  
(c) Copyright 1989-2013 Advanced Engineering Software (aes)  
Ver. 20.0 Release Date: 06/01/2013 License ID 1237

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*  
\* RMV PA-3 BODR 2022 - NODE 127 \*  
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*  
\* 2-YR EV JULY 2022 ROKAMOTO \*  
\*\*\*\*\*

FILE NAME: EVO2127S.DAT  
TIME/DATE OF STUDY: 11:58 07/25/2022

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 127.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<

=====

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 52666.000 ACRES  
BASEFLOW = 0.000 CFS/SQUARE-MILE  
\*USER ENTERED "LAG" TIME = 5.777 HOURS  
VALLEY (DEVELOPED) S-GRAPH SELECTED  
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.582  
LOW LOSS FRACTION = 0.921  
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.16  
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.30  
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 0.41  
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 0.76  
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 1.13  
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 1.99

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:  
5-MINUTE FACTOR = 0.333  
30-MINUTE FACTOR = 0.385  
1-HOUR FACTOR = 0.425  
3-HOUR FACTOR = 0.775  
6-HOUR FACTOR = 0.899  
24-HOUR FACTOR = 0.941

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES  
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 1.443

UNIT HYDROGRAPH DETERMINATION

INTERVAL NUMBER	"S" GRAPH MEAN VALUES	UNIT HYDROGRAPH ORDINATES (CFS)
1	0.082	525.015
2	0.247	1050.022
3	0.412	1050.022
4	0.577	1050.030
5	0.742	1050.026
6	0.907	1050.022
7	1.072	1050.022
8	1.236	1050.030
9	1.401	1050.027
10	1.566	1050.026
11	1.731	1050.026
12	1.896	1050.018
13	2.093	1256.536
14	2.343	1593.110
15	2.594	1597.869
16	2.845	1597.859
17	3.096	1597.877
18	3.347	1597.836
19	3.598	1597.885
20	3.848	1597.851
21	4.184	2136.680
22	4.644	2932.791
23	5.106	2940.150
24	5.568	2940.020
25	6.052	3087.329
26	6.646	3779.977
27	7.253	3868.502
28	7.866	3906.302
29	8.593	4625.455
30	9.362	4900.138
31	10.121	4831.220
32	10.844	4610.434
33	11.566	4593.857
34	12.287	4593.924
35	13.008	4593.857
36	13.733	4615.147
37	14.721	6294.654
38	15.846	7162.304
39	16.686	5353.300
40	17.455	4900.144
41	18.225	4900.144
42	18.994	4899.999
43	19.767	4922.922
44	20.666	5725.608
45	21.629	6132.825
46	22.707	6868.414
47	23.837	7198.694
48	24.725	5654.321

49	25.549	5250.360
50	26.374	5250.081
51	27.198	5250.081
52	28.068	5541.959
53	29.185	7115.004
54	30.279	6964.083
55	31.244	6151.558
56	32.329	6905.868
57	33.736	8964.304
58	34.955	7765.032
59	36.041	6917.749
60	36.842	5100.776
61	37.611	4900.545
62	38.881	8088.715
63	40.446	9966.018
64	41.667	7773.924
65	42.983	8381.372
66	44.312	8465.464
67	45.567	7994.370
68	46.968	8925.234
69	48.547	10056.572
70	50.147	10190.254
71	51.234	6923.386
72	52.283	6681.389
73	53.332	6682.458
74	54.349	6474.962
75	55.311	6128.900
76	56.332	6502.441
77	57.482	7322.803
78	58.706	7797.104
79	60.032	8449.281
80	61.617	10091.074
81	62.946	8469.764
82	64.120	7478.036
83	65.137	6472.265
84	66.126	6303.012
85	67.073	6030.255
86	68.048	6209.226
87	69.202	7351.911
88	70.268	6791.332
89	71.114	5387.795
90	71.966	5423.366
91	72.890	5889.090
92	73.828	5968.833
93	74.727	5730.577
94	75.614	5650.834
95	76.363	4767.932
96	77.004	4083.439
97	77.645	4081.301
98	78.287	4087.716
99	78.927	4081.301
100	79.569	4083.391
101	80.223	4165.369
102	80.901	4320.577
103	81.580	4324.902
104	82.231	4145.979
105	82.838	3869.966
106	83.446	3872.153

107	84.044	3803.150
108	84.598	3529.323
109	85.148	3503.471
110	85.697	3499.147
111	86.199	3195.192
112	86.643	2830.787
113	87.087	2826.510
114	87.531	2826.462
115	87.964	2761.832
116	88.320	2265.932
117	88.659	2160.289
118	88.999	2162.475
119	89.338	2162.427
120	89.678	2162.427
121	90.012	2125.836
122	90.319	1957.604
123	90.623	1936.077
124	90.926	1931.752
125	91.230	1936.077
126	91.534	1933.938
127	91.837	1933.890
128	92.128	1849.823
129	92.402	1746.366
130	92.678	1754.967
131	92.952	1746.366
132	93.227	1750.642
133	93.502	1754.967
134	93.776	1746.318
135	94.029	1612.684
136	94.217	1194.437
137	94.400	1168.536
138	94.583	1164.212
139	94.767	1168.536
140	94.950	1168.536
141	95.133	1164.260
142	95.316	1168.536
143	95.499	1164.212
144	95.683	1168.536
145	95.866	1168.585
146	96.028	1030.530
147	96.143	733.038
148	96.257	724.389
149	96.370	720.112
150	96.483	720.112
151	96.596	720.112
152	96.709	720.064
153	96.823	724.437
154	96.935	715.788
155	97.049	724.389
156	97.161	715.788
157	97.275	724.389
158	97.388	720.112
159	97.501	720.112
160	97.614	720.112
161	97.728	724.389
162	97.840	715.788
163	97.954	724.389
164	98.016	396.720

165	98.043	172.460
166	98.070	172.508
167	98.097	168.135
168	98.124	172.508
169	98.152	176.784
170	98.179	172.460
171	98.205	168.183
172	98.232	172.460
173	98.260	176.784
174	98.286	168.183
175	98.313	172.508
176	98.341	176.784
177	98.367	163.858
178	98.394	172.460
179	98.422	181.109
180	98.448	163.858
181	98.476	176.784
182	98.503	172.460
183	98.529	168.183
184	98.558	181.109
185	98.584	163.858
186	98.612	181.109
187	98.638	163.810
188	98.665	172.508
189	98.693	181.109
190	98.719	163.858
191	98.746	172.460
192	98.773	172.460
193	98.800	172.508
194	98.827	172.460
195	98.856	181.109
196	98.881	163.858
197	98.909	172.460
198	98.936	172.508
199	98.963	172.460
200	98.990	172.508
201	99.017	172.460
202	99.044	172.460
203	99.071	172.460
204	99.098	172.460
205	99.125	172.460
206	99.152	172.460
207	99.179	172.460
208	99.206	172.460
209	99.233	172.460
210	99.261	172.460
211	99.288	172.460
212	99.315	172.460
213	99.342	172.460
214	99.369	172.460
215	99.396	172.460
216	99.423	172.460
217	99.450	172.460
218	99.477	172.460
219	99.504	172.460
220	99.531	172.460
221	99.558	172.460
222	99.585	172.460

223	99.613	172.460
224	99.640	172.460
225	99.667	172.460
226	99.694	172.460
227	99.721	172.460
228	99.748	172.460
229	99.775	172.460
230	99.802	172.460
231	99.829	172.460
232	99.856	172.460
233	99.883	172.460
234	99.910	172.460
235	99.937	172.460
236	99.965	172.460
237	99.992	172.460
238	100.000	53.259

-----  
TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 7573.9253  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 649.3276  
-----

=====

2 4 - 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 FIVE-MINUTE UNIT INTERVALS(CFS)

(Note: Time indicated is at END of Each Unit Intervals)

TIME(HRS)	VOLUME(AF)	Q(CFS)	0.	150.0	300.0	450.0	600.0
0.083	0.0008	0.12	Q	.	.	.	.
0.167	0.0033	0.36	Q	.	.	.	.
0.250	0.0074	0.60	Q	.	.	.	.
0.333	0.0132	0.84	Q	.	.	.	.
0.417	0.0206	1.08	Q	.	.	.	.
0.500	0.0297	1.32	Q	.	.	.	.
0.583	0.0405	1.56	Q	.	.	.	.
0.667	0.0530	1.81	Q	.	.	.	.
0.750	0.0671	2.05	Q	.	.	.	.
0.833	0.0829	2.30	Q	.	.	.	.
0.917	0.1004	2.54	Q	.	.	.	.
1.000	0.1196	2.79	Q	.	.	.	.
1.083	0.1408	3.08	Q	.	.	.	.
1.167	0.1646	3.45	Q	.	.	.	.
1.250	0.1910	3.83	Q	.	.	.	.
1.333	0.2199	4.20	Q	.	.	.	.
1.417	0.2515	4.58	Q	.	.	.	.
1.500	0.2856	4.96	Q	.	.	.	.
1.583	0.3223	5.33	Q	.	.	.	.
1.667	0.3617	5.71	Q	.	.	.	.
1.750	0.4045	6.22	Q	.	.	.	.
1.833	0.4520	6.90	Q	.	.	.	.
1.917	0.5043	7.59	Q	.	.	.	.
2.000	0.5614	8.28	Q	.	.	.	.
2.083	0.6234	9.01	Q	.	.	.	.
2.167	0.6916	9.90	Q	.	.	.	.
2.250	0.7660	10.81	Q	.	.	.	.
2.333	0.8468	11.73	Q	.	.	.	.
2.417	0.9351	12.82	Q	.	.	.	.
2.500	1.0313	13.97	Q	.	.	.	.
2.583	1.1354	15.11	VQ	.	.	.	.
2.667	1.2470	16.21	VQ	.	.	.	.
2.750	1.3661	17.30	VQ	.	.	.	.
2.833	1.4929	18.40	VQ	.	.	.	.
2.917	1.6272	19.50	VQ	.	.	.	.
3.000	1.7691	20.61	VQ	.	.	.	.
3.083	1.9214	22.11	VQ	.	.	.	.
3.167	2.0853	23.80	VQ	.	.	.	.
3.250	2.2581	25.09	VQ	.	.	.	.
3.333	2.4392	26.29	VQ	.	.	.	.
3.417	2.6285	27.48	VQ	.	.	.	.
3.500	2.8260	28.68	VQ	.	.	.	.
3.583	3.0319	29.89	VQ	.	.	.	.
3.667	3.2474	31.29	V Q	.	.	.	.
3.750	3.4732	32.78	V Q	.	.	.	.
3.833	3.7105	34.45	V Q	.	.	.	.
3.917	3.9597	36.20	V Q	.	.	.	.

4.000	4.2187	37.60	V Q	.	.	.	.
4.083	4.4867	38.91	V Q	.	.	.	.
4.167	4.7637	40.23	V Q	.	.	.	.
4.250	5.0499	41.55	V Q	.	.	.	.
4.333	5.3457	42.95	V Q	.	.	.	.
4.417	5.6536	44.70	V Q	.	.	.	.
4.500	5.9733	46.43	V Q	.	.	.	.
4.583	6.3038	47.98	V Q	.	.	.	.
4.667	6.6461	49.71	V Q	.	.	.	.
4.750	7.0036	51.91	V Q	.	.	.	.
4.833	7.3745	53.84	V Q	.	.	.	.
4.917	7.7573	55.59	V Q	.	.	.	.
5.000	8.1495	56.94	V Q	.	.	.	.
5.083	8.5506	58.24	V Q	.	.	.	.
5.167	8.9656	60.27	V Q	.	.	.	.
5.250	9.3977	62.74	V Q	.	.	.	.
5.333	9.8434	64.71	V Q	.	.	.	.
5.417	10.3037	66.83	V Q	.	.	.	.
5.500	10.7787	68.98	V Q	.	.	.	.
5.583	11.2679	71.03	V Q	.	.	.	.
5.667	11.7727	73.30	V Q	.	.	.	.
5.750	12.2950	75.83	V Q	.	.	.	.
5.833	12.8350	78.40	V Q	.	.	.	.
5.917	13.3876	80.24	V Q	.	.	.	.
6.000	13.9526	82.03	V Q	.	.	.	.
6.083	14.5299	83.83	V Q	.	.	.	.
6.167	15.1194	85.59	V Q	.	.	.	.
6.250	15.7205	87.28	V Q	.	.	.	.
6.333	16.3339	89.06	.V Q	.	.	.	.
6.417	16.9608	91.03	.V Q	.	.	.	.
6.500	17.6021	93.12	.V Q	.	.	.	.
6.583	18.2589	95.36	.V Q	.	.	.	.
6.667	18.9337	97.99	.V Q	.	.	.	.
6.750	19.6242	100.26	.V Q	.	.	.	.
6.833	20.3288	102.31	.V Q	.	.	.	.
6.917	21.0461	104.14	.V Q	.	.	.	.
7.000	21.7757	105.94	.V Q	.	.	.	.
7.083	22.5174	107.69	.V Q	.	.	.	.
7.167	23.2714	109.49	.V Q	.	.	.	.
7.250	24.0397	111.55	.V Q	.	.	.	.
7.333	24.8213	113.50	.V Q	.	.	.	.
7.417	25.6143	115.13	.V Q	.	.	.	.
7.500	26.4185	116.78	.V Q	.	.	.	.
7.583	27.2350	118.55	.V Q	.	.	.	.
7.667	28.0637	120.34	.V Q	.	.	.	.
7.750	28.9045	122.08	.V Q	.	.	.	.
7.833	29.7572	123.82	.V Q	.	.	.	.
7.917	30.6206	125.36	.V Q	.	.	.	.
8.000	31.4936	126.76	.V Q	.	.	.	.
8.083	32.3762	128.16	.V Q	.	.	.	.
8.167	33.2686	129.57	. V Q	.	.	.	.
8.250	34.1707	130.99	. V Q	.	.	.	.
8.333	35.0827	132.42	. V Q	.	.	.	.
8.417	36.0047	133.87	. V Q	.	.	.	.
8.500	36.9370	135.37	. V Q	.	.	.	.
8.583	37.8797	136.88	. V Q	.	.	.	.
8.667	38.8325	138.35	. V Q	.	.	.	.
8.750	39.7952	139.78	. V Q	.	.	.	.

8.833	40.7677	141.21	. V	Q.	.	.	.
8.917	41.7500	142.63	. V	Q.	.	.	.
9.000	42.7418	144.00	. V	Q.	.	.	.
9.083	43.7430	145.38	. V	Q.	.	.	.
9.167	44.7537	146.76	. V	Q.	.	.	.
9.250	45.7736	148.08	. V	Q.	.	.	.
9.333	46.8020	149.33	. V	Q.	.	.	.
9.417	47.8391	150.59	. V	Q	.	.	.
9.500	48.8849	151.85	. V	Q	.	.	.
9.583	49.9394	153.11	. V	Q	.	.	.
9.667	51.0019	154.27	. V	Q	.	.	.
9.750	52.0723	155.41	. V	Q	.	.	.
9.833	53.1505	156.57	. V	Q	.	.	.
9.917	54.2368	157.73	. V	Q	.	.	.
10.000	55.3312	158.90	. V	Q	.	.	.
10.083	56.4337	160.08	. V	Q	.	.	.
10.167	57.5440	161.22	. V	Q	.	.	.
10.250	58.6623	162.38	. V	Q	.	.	.
10.333	59.7886	163.54	. V	Q	.	.	.
10.417	60.9230	164.71	. V	Q	.	.	.
10.500	62.0655	165.90	. V	.Q	.	.	.
10.583	63.2163	167.09	. V	.Q	.	.	.
10.667	64.3753	168.28	. V	.Q	.	.	.
10.750	65.5423	169.46	. V	.Q	.	.	.
10.833	66.7176	170.65	. V	.Q	.	.	.
10.917	67.9011	171.85	. V	.Q	.	.	.
11.000	69.0929	173.06	. V	.Q	.	.	.
11.083	70.2932	174.29	. V	.Q	.	.	.
11.167	71.5021	175.52	. V	.Q	.	.	.
11.250	72.7194	176.75	. V	.Q	.	.	.
11.333	73.9445	177.89	. V	.Q	.	.	.
11.417	75.1775	179.03	. V	.Q	.	.	.
11.500	76.4185	180.20	. V	.Q	.	.	.
11.583	77.6676	181.37	. V	.Q	.	.	.
11.667	78.9249	182.56	. V	.Q	.	.	.
11.750	80.1905	183.77	. V	.Q	.	.	.
11.833	81.4646	184.99	. V	.Q	.	.	.
11.917	82.7471	186.23	. V	.Q	.	.	.
12.000	84.0383	187.48	. V	.Q	.	.	.
12.083	85.3396	188.95	. V	.Q	.	.	.
12.167	86.6522	190.59	. V	.Q	.	.	.
12.250	87.9758	192.19	. V	.Q	.	.	.
12.333	89.3105	193.79	. V	.Q	.	.	.
12.417	90.6564	195.42	. V	.Q	.	.	.
12.500	92.0135	197.06	. V	.Q	.	.	.
12.583	93.3821	198.72	. V	.Q	.	.	.
12.667	94.7622	200.39	. V	.Q	.	.	.
12.750	96.1540	202.09	. V	.Q	.	.	.
12.833	97.5576	203.80	. V	.Q	.	.	.
12.917	98.9732	205.54	. V	.Q	.	.	.
13.000	100.4009	207.29	. V	.Q	.	.	.
13.083	101.8413	209.15	. V	.Q	.	.	.
13.167	103.2954	211.15	. V	.Q	.	.	.
13.250	104.7635	213.17	. V	.Q	.	.	.
13.333	106.2457	215.21	. V	.Q	.	.	.
13.417	107.7421	217.28	. V	.Q	.	.	.
13.500	109.2529	219.37	. V	.Q	.	.	.
13.583	110.7783	221.49	. V	.Q	.	.	.

13.667	112.3179	223.55	. V	. Q	.	.	.
13.750	113.8730	225.80	. V	. Q	.	.	.
13.833	115.4457	228.36	. V	. Q	.	.	.
13.917	117.0363	230.95	. V	. Q	.	.	.
14.000	118.6449	233.57	. V	. Q	.	.	.
14.083	120.2737	236.50	. V	. Q	.	.	.
14.167	121.9261	239.93	. V	. Q	.	.	.
14.250	123.6025	243.41	. V	. Q	.	.	.
14.333	125.3030	246.91	. V	. Q	.	.	.
14.417	127.0295	250.69	. V	. Q	.	.	.
14.500	128.7828	254.58	. V	. Q	.	.	.
14.583	130.5629	258.46	. V	. Q	.	.	.
14.667	132.3691	262.27	. V	. Q	.	.	.
14.750	134.2016	266.08	. V	. Q	.	.	.
14.833	136.0604	269.90	. V	. Q	.	.	.
14.917	137.9457	273.74	. V	. Q	.	.	.
15.000	139.8575	277.59	. V	. Q	.	.	.
15.083	141.8008	282.17	. V	. Q	.	.	.
15.167	143.7790	287.23	. V	. Q	.	.	.
15.250	145.7874	291.61	. V	. Q	.	.	.
15.333	147.8248	295.83	. V	. Q	.	.	.
15.417	149.8893	299.77	. V	. Q	.	.	.
15.500	151.9790	303.43	. V	. Q	.	.	.
15.583	154.0946	307.17	. V	. Q	.	.	.
15.667	156.2384	311.29	. V	. Q	.	.	.
15.750	158.4130	315.75	. V	.Q	.	.	.
15.833	160.6223	320.79	. V	.Q	.	.	.
15.917	162.8687	326.17	. V	.Q	.	.	.
16.000	165.1506	331.33	. V	.Q	.	.	.
16.083	167.4783	337.98	. V	.Q	.	.	.
16.167	169.8517	344.63	. V	.Q	.	.	.
16.250	172.2598	349.64	. V	.Q	.	.	.
16.333	174.7025	354.69	. V	.Q	.	.	.
16.417	177.1868	360.71	. V	.Q	.	.	.
16.500	179.7134	366.87	.V	.Q	.	.	.
16.583	182.2803	372.72	.V	.Q	.	.	.
16.667	184.8890	378.77	.V	.Q	.	.	.
16.750	187.5444	385.56	.V	.Q	.	.	.
16.833	190.2431	391.86	.V	.Q	.	.	.
16.917	192.9837	397.93	.V	.Q	.	.	.
17.000	195.7625	403.49	. V	.Q	.	.	.
17.083	198.5851	409.83	. V	.Q	.	.	.
17.167	201.4587	417.25	. V	.Q	.	.	.
17.250	204.3754	423.50	. V	.Q	.	.	.
17.333	207.3280	428.72	. V	.Q	.	.	.
17.417	210.3173	434.05	. V	.Q	.	.	.
17.500	213.3413	439.09	. V	.Q	.	.	.
17.583	216.4003	444.16	. V	.Q	.	.	.
17.667	219.5022	450.39	. V	.Q	.	.	.
17.750	222.6600	458.52	. V	.Q	.	.	.
17.833	225.8772	467.13	. V	.Q	.	.	.
17.917	229.1300	472.31	. V	.Q	.	.	.
18.000	232.4154	477.04	. V	.Q	.	.	.
18.083	235.7353	482.04	. V	.Q	.	.	.
18.167	239.0989	488.40	. V	.Q	.	.	.
18.250	242.4938	492.93	. V	.Q	.	.	.
18.333	245.9228	497.90	. V	.Q	.	.	.
18.417	249.3990	504.74	. V	.Q	.	.	.

18.500	252.9109	509.92	.	.	V	.	.	Q	.
18.583	256.4581	515.06	.	.	V	.	.	Q	.
18.667	260.0464	521.03	.	.	V	.	.	Q	.
18.750	263.6805	527.67	.	.	V	.	.	Q	.
18.833	267.3523	533.14	.	.	V	.	.	Q	.
18.917	271.0621	538.66	.	.	V	.	.	Q	.
19.000	274.8061	543.63	.	.	V	.	.	Q	.
19.083	278.6084	552.09	.	.	V	.	.	Q	.
19.167	282.4468	557.35	.	.	V	.	.	Q	.
19.250	286.2757	555.95	.	.	V	.	.	Q	.
19.333	290.1220	558.49	.	.	V	.	.	Q	.
19.417	293.9979	562.78	.	.	V	.	.	Q	.
19.500	297.9077	567.69	.	.	V	.	.	Q	.
19.583	301.8476	572.07	.	.	V	.	.	Q	.
19.667	305.8364	579.18	.	.	V	.	.	Q	.
19.750	309.8605	584.30	.	.	V.	.	.	Q.	.
19.833	313.9199	589.42	.	.	V.	.	.	Q.	.
19.917	317.9897	590.93	.	.	V.	.	.	Q.	.
20.000	322.0302	586.69	.	.	V.	.	.	Q.	.
20.083	326.0535	584.18	.	.	V	.	.	Q	.
20.167	330.0721	583.49	.	.	V	.	.	Q	.
20.250	334.1010	585.00	.	.	V	.	.	Q	.
20.333	338.1521	588.23	.	.	V	.	.	Q.	.
20.417	342.2421	593.87	.	.	.V	.	.	Q.	.
20.500	346.3229	592.53	.	.	.V	.	.	Q.	.
20.583	350.3837	589.64	.	.	.V	.	.	Q.	.
20.667	354.4723	593.66	.	.	.V	.	.	Q.	.
20.750	358.6006	599.42	.	.	.V	.	.	Q.	.
20.833	362.6859	593.19	.	.	.V	.	.	Q.	.
20.917	366.7276	586.85	.	.	.V	.	.	Q.	.
21.000	370.7212	579.87	.	.	.V	.	.	Q.	.
21.083	374.7133	579.65	.	.	.V	.	.	Q.	.
21.167	378.7616	587.80	.	.	.V	.	.	Q.	.
21.250	382.8454	592.98	.	.	.V	.	.	Q.	.
21.333	386.8766	585.33	.	.	.V	.	.	Q.	.
21.417	390.8983	583.95	.	.	.V	.	.	Q.	.
21.500	394.9087	582.31	.	.	.V	.	.	Q.	.
21.583	398.9190	582.30	.	.	.V	.	.	Q.	.
21.667	402.9431	584.30	.	.	.V	.	.	Q.	.
21.750	406.9644	583.89	.	.	.V	.	.	Q.	.
21.833	410.9516	578.95	.	.	.V	.	.	Q.	.
21.917	414.8372	564.18	.	.	.V	.	.	Q.	.
22.000	418.6911	559.59	.	.	.V	.	.	Q.	.
22.083	422.5299	557.39	.	.	.V	.	.	Q.	.
22.167	426.3479	554.38	.	.	.V	.	.	Q.	.
22.250	430.1324	549.51	.	.	.V	.	.	Q.	.
22.333	433.9029	547.47	.	.	.V	.	.	Q.	.
22.417	437.6656	546.34	.	.	.V	.	.	Q.	.
22.500	441.4146	544.36	.	.	.V	.	.	Q.	.
22.583	445.1496	542.33	.	.	.V	.	.	Q.	.
22.667	448.8762	541.10	.	.	.V	.	.	Q.	.
22.750	452.5224	529.43	.	.	.V	.	.	Q.	.
22.833	456.1054	520.25	.	.	.V	.	.	Q.	.
22.917	459.6363	512.67	.	.	.V	.	.	Q.	.
23.000	463.1461	509.63	.	.	.V	.	.	Q.	.
23.083	466.6353	506.64	.	.	.V	.	.	Q.	.
23.167	470.1046	503.73	.	.	.V	.	.	Q.	.
23.250	473.5605	501.80	.	.	.V	.	.	Q.	.

23.333	476.9687	494.87	.	.	.	.	.	V.	Q	.
23.417	480.3115	485.37	.	.	.	.	.	V.	Q	.
23.500	483.6185	480.18	.	.	.	.	.	V.	Q	.
23.583	486.9008	476.59	.	.	.	.	.	V.	Q	.
23.667	490.1391	470.20	.	.	.	.	.	VQ	.	.
23.750	493.3206	461.95	.	.	.	.	.	Q	.	.
23.833	496.4465	453.88	.	.	.	.	.	Q	.	.
23.917	499.5135	445.33	.	.	.	.	.	QV	.	.
24.000	502.5310	438.15	.	.	.	.	.	QV	.	.
24.083	505.5143	433.17	.	.	.	.	.	Q	.V	.
24.167	508.4620	428.01	.	.	.	.	.	Q	.V	.
24.250	511.3684	422.01	.	.	.	.	.	Q	.V	.
24.333	514.2333	415.99	.	.	.	.	.	Q	.V	.
24.417	517.0606	410.52	.	.	.	.	.	Q	.V	.
24.500	519.8492	404.91	.	.	.	.	.	Q	.V	.
24.583	522.5928	398.37	.	.	.	.	.	Q	.V	.
24.667	525.2840	390.76	.	.	.	.	.	Q	.V	.
24.750	527.9258	383.58	.	.	.	.	.	Q	.V	.
24.833	530.5264	377.61	.	.	.	.	.	Q	.V	.
24.917	533.0897	372.19	.	.	.	.	.	Q	.V	.
25.000	535.6166	366.90	.	.	.	.	.	Q	.V	.
25.083	538.1116	362.28	.	.	.	.	.	Q	.V	.
25.167	540.5726	357.34	.	.	.	.	.	Q	.V	.
25.250	542.9900	351.00	.	.	.	.	.	Q	.V	.
25.333	545.3636	344.64	.	.	.	.	.	Q	.V	.
25.417	547.7044	339.89	.	.	.	.	.	Q	.V	.
25.500	550.0116	335.01	.	.	.	.	.	Q	.V	.
25.583	552.2807	329.47	.	.	.	.	.	Q	.V	.
25.667	554.5020	322.53	.	.	.	.	.	Q	.V	.
25.750	556.6844	316.88	.	.	.	.	.	Q	.V	.
25.833	558.8294	311.45	.	.	.	.	.	Q	.V	.
25.917	560.9395	306.38	.	.	.	.	.	Q	.V	.
26.000	563.0156	301.44	.	.	.	.	.	Q	.V	.
26.083	565.0563	296.32	.	.	.	.	.	Q	.V	.
26.167	567.0580	290.64	.	.	.	.	.	Q	.V	.
26.250	569.0237	285.42	.	.	.	.	.	Q	.V	.
26.333	570.9551	280.44	.	.	.	.	.	Q	.V	.
26.417	572.8513	275.33	.	.	.	.	.	Q	.V	.
26.500	574.7108	270.00	.	.	.	.	.	Q	.V	.
26.583	576.5342	264.75	.	.	.	.	.	Q	.V	.
26.667	578.3236	259.82	.	.	.	.	.	Q	.V	.
26.750	580.0803	255.08	.	.	.	.	.	Q	.V	.
26.833	581.8068	250.68	.	.	.	.	.	Q	.V	.
26.917	583.5032	246.32	.	.	.	.	.	Q	.V	.
27.000	585.1707	242.13	.	.	.	.	.	Q	.V	.
27.083	586.8063	237.50	.	.	.	.	.	Q	.V	.
27.167	588.4079	232.55	.	.	.	.	.	Q	.V	.
27.250	589.9760	227.68	.	.	.	.	.	Q	.V	.
27.333	591.5076	222.40	.	.	.	.	.	Q	.V	.
27.417	593.0119	218.42	.	.	.	.	.	Q	.V	.
27.500	594.4901	214.63	.	.	.	.	.	Q	.V	.
27.583	595.9436	211.05	.	.	.	.	.	Q	.V	.
27.667	597.3703	207.16	.	.	.	.	.	Q	.V	.
27.750	598.7692	203.13	.	.	.	.	.	Q	.V	.
27.833	600.1395	198.97	.	.	.	.	.	Q	.V	.
27.917	601.4810	194.78	.	.	.	.	.	Q	.V	.
28.000	602.7958	190.92	.	.	.	.	.	Q	.V	.
28.083	604.0839	187.03	.	.	.	.	.	Q	.V	.

28.167	605.3425	182.75	.	.	Q	.	.	V	.
28.250	606.5699	178.21	.	.	.Q	.	.	V	.
28.333	607.7733	174.74	.	.	.Q	.	.	V	.
28.417	608.9509	170.99	.	.	.Q	.	.	V	.
28.500	610.1031	167.30	.	.	.Q	.	.	V	.
28.583	611.2304	163.67	.	.	Q	.	.	V	.
28.667	612.3318	159.93	.	.	Q	.	.	V	.
28.750	613.4047	155.78	.	.	Q	.	.	V	.
28.833	614.4509	151.91	.	.	Q	.	.	V	.
28.917	615.4723	148.30	.	.	Q.	.	.	V	.
29.000	616.4727	145.25	.	.	Q.	.	.	V	.
29.083	617.4537	142.44	.	.	Q.	.	.	V	.
29.167	618.4104	138.92	.	.	Q.	.	.	V	.
29.250	619.3412	135.16	.	.	Q.	.	.	V	.
29.333	620.2512	132.13	.	.	Q	.	.	V	.
29.417	621.1398	129.02	.	.	Q	.	.	V	.
29.500	622.0060	125.78	.	.	Q	.	.	V	.
29.583	622.8498	122.52	.	.	Q	.	.	V	.
29.667	623.6633	118.12	.	.	Q	.	.	V	.
29.750	624.4479	113.94	.	.	Q	.	.	V	.
29.833	625.2087	110.46	.	.	Q	.	.	V	.
29.917	625.9510	107.79	.	.	Q	.	.	V	.
30.000	626.6747	105.08	.	.	Q	.	.	V	.
30.083	627.3790	102.27	.	.	Q	.	.	V	.
30.167	628.0645	99.53	.	.	Q	.	.	V	.
30.250	628.7325	96.99	.	.	Q	.	.	V	.
30.333	629.3826	94.40	.	.	Q	.	.	V	.
30.417	630.0136	91.63	.	.	Q	.	.	V	.
30.500	630.6247	88.73	.	.	Q	.	.	V	.
30.583	631.2151	85.72	.	.	Q	.	.	V	.
30.667	631.7833	82.50	.	.	Q	.	.	V	.
30.750	632.3323	79.73	.	.	Q	.	.	V	.
30.833	632.8644	77.26	.	.	Q	.	.	V	.
30.917	633.3813	75.05	.	.	Q	.	.	V	.
31.000	633.8829	72.83	.	.	Q	.	.	V	.
31.083	634.3702	70.76	.	.	Q	.	.	V	.
31.167	634.8430	68.64	.	.	Q	.	.	V	.
31.250	635.2994	66.28	.	.	Q	.	.	V	.
31.333	635.7409	64.10	.	.	Q	.	.	V	.
31.417	636.1691	62.18	.	.	Q	.	.	V	.
31.500	636.5849	60.37	.	.	Q	.	.	V	.
31.583	636.9868	58.36	.	.	Q	.	.	V	.
31.667	637.3763	56.56	.	.	Q	.	.	V	.
31.750	637.7544	54.90	.	.	Q	.	.	V	.
31.833	638.1205	53.16	.	.	Q	.	.	V	.
31.917	638.4764	51.68	.	.	Q	.	.	V	.
32.000	638.8232	50.35	.	.	Q	.	.	V	.
32.083	639.1609	49.04	.	.	Q	.	.	V	.
32.167	639.4897	47.73	.	.	Q	.	.	V	.
32.250	639.8097	46.46	.	.	Q	.	.	V	.
32.333	640.1205	45.12	.	.	Q	.	.	V	.
32.417	640.4225	43.86	.	.	Q	.	.	V	.
32.500	640.7155	42.54	.	.	Q	.	.	V	.
32.583	640.9996	41.24	.	.	Q	.	.	V	.
32.667	641.2749	39.98	.	.	Q	.	.	V	.
32.750	641.5421	38.79	.	.	Q	.	.	V	.
32.833	641.8011	37.62	.	.	Q	.	.	V	.
32.917	642.0522	36.46	.	.	Q	.	.	V	.

33.000	642.2958	35.38	.	Q	.	.	.	V	.
33.083	642.5321	34.30	.	Q	.	.	.	V	.
33.167	642.7610	33.24	.	Q	.	.	.	V	.
33.250	642.9831	32.25	.	Q	.	.	.	V	.
33.333	643.1990	31.35	.	Q	.	.	.	V	.
33.417	643.4087	30.46	.	Q	.	.	.	V	.
33.500	643.6123	29.56	.	.Q	.	.	.	V	.
33.583	643.8099	28.70	.	.Q	.	.	.	V	.
33.667	644.0024	27.94	.	.Q	.	.	.	V	.
33.750	644.1898	27.21	.	.Q	.	.	.	V	.
33.833	644.3719	26.44	.	.Q	.	.	.	V	.
33.917	644.5486	25.65	.	.Q	.	.	.	V	.
34.000	644.7198	24.86	.	.Q	.	.	.	V	.
34.083	644.8857	24.09	.	.Q	.	.	.	V	.
34.167	645.0466	23.36	.	.Q	.	.	.	V	.
34.250	645.2025	22.64	.	.Q	.	.	.	V	.
34.333	645.3535	21.93	.	.Q	.	.	.	V	.
34.417	645.4996	21.22	.	.Q	.	.	.	V	.
34.500	645.6409	20.52	.	.Q	.	.	.	V	.
34.583	645.7773	19.82	.	.Q	.	.	.	V	.
34.667	645.9092	19.15	.	.Q	.	.	.	V	.
34.750	646.0366	18.50	.	.Q	.	.	.	V	.
34.833	646.1596	17.86	.	.Q	.	.	.	V	.
34.917	646.2783	17.23	.	.Q	.	.	.	V	.
35.000	646.3926	16.60	.	.Q	.	.	.	V	.
35.083	646.5026	15.97	.	.Q	.	.	.	V	.
35.167	646.6088	15.42	.	.Q	.	.	.	V	.
35.250	646.7115	14.93	.	Q	.	.	.	V	.
35.333	646.8116	14.52	.	Q	.	.	.	V	.
35.417	646.9088	14.12	.	Q	.	.	.	V	.
35.500	647.0034	13.74	.	Q	.	.	.	V	.
35.583	647.0954	13.35	.	Q	.	.	.	V	.
35.667	647.1844	12.93	.	Q	.	.	.	V	.
35.750	647.2701	12.45	.	Q	.	.	.	V	.
35.833	647.3503	11.63	.	Q	.	.	.	V	.
35.917	647.4265	11.06	.	Q	.	.	.	V	.
36.000	647.4999	10.66	.	Q	.	.	.	V	.

-----  
TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
(Note: 100% of Peak Flow Rate estimate assumed to have  
an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
=====	=====
0%	2165.0
10%	1585.0
20%	1320.0
30%	1005.0
40%	775.0
50%	640.0
60%	525.0
70%	425.0
80%	330.0
90%	225.0

-----  
END OF FLOODSCx ROUTING ANALYSIS





\*\*\*\*\*

FLOOD ROUTING ANALYSIS  
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)  
(c) Copyright 1989-2013 Advanced Engineering Software (aes)  
Ver. 20.0 Release Date: 06/01/2013 License ID 1237

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*  
\* RMV PA-3 ROMP AMENDMENT 2022 - NODE 137 \*  
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*  
\* 2-YR EV OCT 2022 ROKAMOTO \*  
\*\*\*\*\*

FILE NAME: EVO2137S.DAT  
TIME/DATE OF STUDY: 13:46 10/25/2022

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 137.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<

\*\*\*\*\*

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 67799.000 ACRES  
BASEFLOW = 0.000 CFS/SQUARE-MILE  
\*USER ENTERED "LAG" TIME = 6.288 HOURS  
VALLEY (DEVELOPED) S-GRAPH SELECTED  
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.567  
LOW LOSS FRACTION = 0.903  
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.15  
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.29  
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 0.40  
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 0.73  
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 1.07  
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 1.87

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:  
5-MINUTE FACTOR = 0.291  
30-MINUTE FACTOR = 0.350  
1-HOUR FACTOR = 0.394  
3-HOUR FACTOR = 0.738  
6-HOUR FACTOR = 0.886  
24-HOUR FACTOR = 0.933

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES  
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 1.325

UNIT HYDROGRAPH DETERMINATION

INTERVAL NUMBER	"S" GRAPH MEAN VALUES	UNIT HYDROGRAPH ORDINATES (CFS)
1	0.076	620.942
2	0.227	1241.895
3	0.379	1241.883
4	0.530	1241.889
5	0.682	1241.883
6	0.833	1241.889
7	0.984	1241.895
8	1.136	1241.882
9	1.287	1241.890
10	1.439	1241.883
11	1.590	1241.889
12	1.742	1241.889
13	1.893	1241.895
14	2.070	1446.750
15	2.299	1876.218
16	2.529	1889.848
17	2.759	1889.824
18	2.990	1889.824
19	3.220	1889.838
20	3.451	1889.813
21	3.681	1889.836
22	3.913	1900.858
23	4.262	2859.455
24	4.686	3477.289
25	5.110	3477.339
26	5.534	3477.246
27	5.969	3565.939
28	6.503	4378.818
29	7.061	4575.418
30	7.619	4575.324
31	8.227	4983.206
32	8.931	5775.171
33	9.638	5795.471
34	10.323	5618.740
35	10.986	5433.236
36	11.649	5433.236
37	12.311	5433.330
38	12.974	5433.236
39	13.637	5433.236
40	14.479	6908.895
41	15.538	8683.436
42	16.399	7061.729
43	17.106	5795.572
44	17.813	5795.181
45	18.520	5795.557
46	19.227	5795.572
47	19.948	5914.899
48	20.800	6988.655

49	21.686	7259.041
50	22.681	8160.625
51	23.731	8612.050
52	24.572	6897.291
53	25.330	6209.245
54	26.087	6209.620
55	26.844	6209.636
56	27.602	6209.620
57	28.503	7387.063
58	29.562	8686.837
59	30.519	7847.747
60	31.403	7244.325
61	32.436	8473.456
62	33.741	10702.588
63	34.864	9203.821
64	35.892	8427.398
65	36.656	6269.283
66	37.363	5795.009
67	38.236	7161.218
68	39.761	12497.812
69	40.976	9965.450
70	42.113	9320.490
71	43.351	10152.776
72	44.552	9846.874
73	45.706	9459.460
74	47.008	10680.693
75	48.452	11840.715
76	49.974	12475.166
77	51.006	8467.810
78	51.970	7902.891
79	52.934	7902.860
80	53.892	7853.064
81	54.790	7363.620
82	55.675	7256.398
83	56.668	8146.081
84	57.732	8723.104
85	58.877	9383.172
86	60.105	10068.919
87	61.575	12053.721
88	62.812	10142.955
89	63.911	9013.086
90	64.863	7806.209
91	65.781	7528.270
92	66.662	7223.180
93	67.528	7102.321
94	68.495	7925.568
95	69.579	8889.255
96	70.475	7343.978
97	71.247	6335.000
98	72.033	6439.219
99	72.886	6995.099
100	73.748	7069.103
101	74.579	6810.806
102	75.394	6685.442
103	76.144	6153.710
104	76.740	4886.435
105	77.329	4827.569
106	77.918	4830.509

107	78.507	4830.571
108	79.096	4827.506
109	79.685	4830.571
110	80.291	4963.442
111	80.914	5111.514
112	81.538	5114.517
113	82.143	4960.439
114	82.702	4588.915
115	83.260	4573.776
116	83.818	4570.710
117	84.340	4286.766
118	84.846	4141.759
119	85.350	4135.753
120	85.853	4123.617
121	86.291	3588.945
122	86.699	3344.223
123	87.106	3344.223
124	87.514	3341.220
125	87.917	3307.940
126	88.252	2746.117
127	88.564	2552.692
128	88.876	2561.825
129	89.187	2552.692
130	89.499	2558.822
131	89.811	2555.694
132	90.110	2450.036
133	90.389	2286.888
134	90.668	2286.888
135	90.947	2289.891
136	91.226	2286.888
137	91.505	2289.891
138	91.784	2286.888
139	92.056	2232.526
140	92.309	2075.384
141	92.562	2069.378
142	92.814	2066.375
143	93.067	2078.449
144	93.319	2060.307
145	93.572	2078.449
146	93.824	2066.313
147	94.049	1842.797
148	94.219	1395.704
149	94.388	1383.631
150	94.556	1377.563
151	94.724	1377.563
152	94.893	1383.631
153	95.061	1377.563
154	95.229	1377.563
155	95.397	1383.568
156	95.565	1377.563
157	95.734	1383.631
158	95.902	1377.563
159	96.043	1154.047
160	96.147	857.966
161	96.251	851.898
162	96.355	845.893
163	96.458	851.898
164	96.563	857.966

165	96.668	857.966
166	96.772	851.898
167	96.875	845.893
168	96.979	851.898
169	97.083	851.898
170	97.187	857.966
171	97.290	845.893
172	97.394	851.898
173	97.499	857.966
174	97.603	851.898
175	97.706	845.893
176	97.811	857.966
177	97.914	851.898
178	98.000	700.886
179	98.029	235.651
180	98.054	205.436
181	98.079	205.374
182	98.104	205.436
183	98.128	199.368
184	98.153	205.436
185	98.178	205.436
186	98.203	199.368
187	98.228	205.436
188	98.253	205.436
189	98.278	205.436
190	98.302	199.368
191	98.327	205.436
192	98.352	205.436
193	98.377	205.436
194	98.401	193.300
195	98.428	223.578
196	98.452	199.368
197	98.477	205.436
198	98.503	205.436
199	98.527	199.368
200	98.553	211.504
201	98.576	193.300
202	98.601	205.436
203	98.627	211.504
204	98.651	193.300
205	98.676	211.504
206	98.701	205.436
207	98.727	205.374
208	98.750	193.363
209	98.775	205.436
210	98.800	205.436
211	98.825	205.436
212	98.850	205.374
213	98.875	205.436
214	98.900	205.436
215	98.924	193.363
216	98.949	205.436
217	98.976	217.510
218	98.999	193.300
219	99.024	205.436
220	99.048	193.300
221	99.071	193.300
222	99.095	193.300

223	99.119	193.300
224	99.142	193.300
225	99.166	193.300
226	99.189	193.300
227	99.213	193.300
228	99.236	193.300
229	99.260	193.300
230	99.284	193.300
231	99.307	193.300
232	99.331	193.300
233	99.354	193.300
234	99.378	193.300
235	99.401	193.300
236	99.425	193.300
237	99.449	193.300
238	99.472	193.300
239	99.496	193.300
240	99.519	193.300
241	99.543	193.300
242	99.566	193.300
243	99.590	193.300
244	99.614	193.300
245	99.637	193.300
246	99.661	193.300
247	99.684	193.300
248	99.708	193.300
249	99.731	193.300
250	99.755	193.300
251	99.779	193.300
252	99.802	193.300
253	99.826	193.300
254	99.849	193.300
255	99.873	193.300
256	99.896	193.300
257	99.920	193.300
258	99.944	193.300
259	99.967	193.300
260	99.991	193.300
261	100.000	75.631

-----  
TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 8883.4463  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 953.7648  
-----

=====

2 4 - 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 FIVE-MINUTE UNIT INTERVALS (CFS)

(Note: Time indicated is at END of Each Unit Intervals)

TIME (HRS)	VOLUME (AF)	Q (CFS)	0.	225.0	450.0	675.0	900.0
0.083	0.0011	0.16	Q	.	.	.	.
0.167	0.0044	0.48	Q	.	.	.	.
0.250	0.0100	0.80	Q	.	.	.	.
0.333	0.0177	1.13	Q	.	.	.	.
0.417	0.0277	1.45	Q	.	.	.	.
0.500	0.0399	1.78	Q	.	.	.	.
0.583	0.0544	2.10	Q	.	.	.	.
0.667	0.0711	2.43	Q	.	.	.	.
0.750	0.0901	2.76	Q	.	.	.	.
0.833	0.1114	3.08	Q	.	.	.	.
0.917	0.1349	3.41	Q	.	.	.	.
1.000	0.1607	3.75	Q	.	.	.	.
1.083	0.1888	4.08	Q	.	.	.	.
1.167	0.2195	4.46	Q	.	.	.	.
1.250	0.2537	4.96	Q	.	.	.	.
1.333	0.2913	5.46	Q	.	.	.	.
1.417	0.3324	5.97	Q	.	.	.	.
1.500	0.3770	6.48	Q	.	.	.	.
1.583	0.4251	6.98	Q	.	.	.	.
1.667	0.4767	7.49	Q	.	.	.	.
1.750	0.5318	8.00	Q	.	.	.	.
1.833	0.5905	8.52	Q	.	.	.	.
1.917	0.6544	9.28	Q	.	.	.	.
2.000	0.7247	10.21	Q	.	.	.	.
2.083	0.8014	11.14	Q	.	.	.	.
2.167	0.8846	12.07	Q	.	.	.	.
2.250	0.9743	13.03	Q	.	.	.	.
2.333	1.0721	14.20	Q	.	.	.	.
2.417	1.1783	15.43	Q	.	.	.	.
2.500	1.2930	16.65	Q	.	.	.	.
2.583	1.4170	17.99	Q	.	.	.	.
2.667	1.5515	19.54	Q	.	.	.	.
2.750	1.6968	21.10	Q	.	.	.	.
2.833	1.8526	22.61	VQ	.	.	.	.
2.917	2.0185	24.09	VQ	.	.	.	.
3.000	2.1945	25.57	VQ	.	.	.	.
3.083	2.3808	27.05	VQ	.	.	.	.
3.167	2.5774	28.54	VQ	.	.	.	.
3.250	2.7842	30.03	VQ	.	.	.	.
3.333	3.0039	31.91	VQ	.	.	.	.
3.417	3.2398	34.25	VQ	.	.	.	.
3.500	3.4890	36.18	VQ	.	.	.	.
3.583	3.7493	37.79	VQ	.	.	.	.
3.667	4.0207	39.41	VQ	.	.	.	.
3.750	4.3032	41.03	VQ	.	.	.	.
3.833	4.5970	42.66	VQ	.	.	.	.
3.917	4.9023	44.32	VQ	.	.	.	.

4.000	5.2209	46.27	V Q	.	.	.	.
4.083	5.5535	48.29	V Q	.	.	.	.
4.167	5.9017	50.55	V Q	.	.	.	.
4.250	6.2663	52.94	V Q	.	.	.	.
4.333	6.6443	54.89	V Q	.	.	.	.
4.417	7.0346	56.67	V Q	.	.	.	.
4.500	7.4372	58.46	V Q	.	.	.	.
4.583	7.8522	60.25	V Q	.	.	.	.
4.667	8.2796	62.05	V Q	.	.	.	.
4.750	8.7215	64.17	V Q	.	.	.	.
4.833	9.1803	66.62	V Q	.	.	.	.
4.917	9.6546	68.87	V Q	.	.	.	.
5.000	10.1433	70.96	V Q	.	.	.	.
5.083	10.6487	73.39	V Q	.	.	.	.
5.167	11.1749	76.39	V Q	.	.	.	.
5.250	11.7191	79.02	V Q	.	.	.	.
5.333	12.2802	81.46	V Q	.	.	.	.
5.417	12.8542	83.35	V Q	.	.	.	.
5.500	13.4405	85.13	V Q	.	.	.	.
5.583	14.0415	87.27	V Q	.	.	.	.
5.667	14.6668	90.79	V Q	.	.	.	.
5.750	15.3119	93.67	V Q	.	.	.	.
5.833	15.9758	96.39	V Q	.	.	.	.
5.917	16.6600	99.34	V Q	.	.	.	.
6.000	17.3640	102.22	V Q	.	.	.	.
6.083	18.0872	105.01	V Q	.	.	.	.
6.167	18.8319	108.13	V Q	.	.	.	.
6.250	19.6003	111.56	V Q	.	.	.	.
6.333	20.3934	115.17	V Q	.	.	.	.
6.417	21.2044	117.75	V Q	.	.	.	.
6.500	22.0322	120.20	V Q	.	.	.	.
6.583	22.8769	122.66	V Q	.	.	.	.
6.667	23.7386	125.11	V Q	.	.	.	.
6.750	24.6163	127.45	.V Q	.	.	.	.
6.833	25.5101	129.77	.V Q	.	.	.	.
6.917	26.4215	132.33	.V Q	.	.	.	.
7.000	27.3516	135.06	.V Q	.	.	.	.
7.083	28.3017	137.96	.V Q	.	.	.	.
7.167	29.2732	141.05	.V Q	.	.	.	.
7.250	30.2695	144.67	.V Q	.	.	.	.
7.333	31.2874	147.80	.V Q	.	.	.	.
7.417	32.3250	150.66	.V Q	.	.	.	.
7.500	33.3803	153.22	.V Q	.	.	.	.
7.583	34.4528	155.72	.V Q	.	.	.	.
7.667	35.5420	158.16	.V Q	.	.	.	.
7.750	36.6478	160.57	.V Q	.	.	.	.
7.833	37.7718	163.20	.V Q	.	.	.	.
7.917	38.9157	166.10	.V Q	.	.	.	.
8.000	40.0770	168.61	.V Q	.	.	.	.
8.083	41.2538	170.88	.V Q	.	.	.	.
8.167	42.4465	173.18	.V Q	.	.	.	.
8.250	43.6561	175.63	.V Q	.	.	.	.
8.333	44.8829	178.12	.V Q	.	.	.	.
8.417	46.1264	180.56	.V Q	.	.	.	.
8.500	47.3865	182.97	.V Q	.	.	.	.
8.583	48.6624	185.26	.V Q	.	.	.	.
8.667	49.9519	187.24	.V Q	.	.	.	.
8.750	51.2550	189.21	.V Q	.	.	.	.

8.833	52.5718	191.19	. V	Q .	.	.	.
8.917	53.9023	193.19	. V	Q .	.	.	.
9.000	55.2467	195.20	. V	Q .	.	.	.
9.083	56.6049	197.22	. V	Q .	.	.	.
9.167	57.9774	199.29	. V	Q .	.	.	.
9.250	59.3645	201.40	. V	Q .	.	.	.
9.333	60.7663	203.54	. V	Q .	.	.	.
9.417	62.1826	205.64	. V	Q .	.	.	.
9.500	63.6128	207.67	. V	Q .	.	.	.
9.583	65.0570	209.70	. V	Q .	.	.	.
9.667	66.5154	211.75	. V	Q .	.	.	.
9.750	67.9874	213.74	. V	Q .	.	.	.
9.833	69.4729	215.70	. V	Q .	.	.	.
9.917	70.9721	217.68	. V	Q .	.	.	.
10.000	72.4849	219.67	. V	Q .	.	.	.
10.083	74.0106	221.53	. V	Q .	.	.	.
10.167	75.5488	223.35	. V	Q .	.	.	.
10.250	77.0996	225.18	. V	Q	.	.	.
10.333	78.6631	227.02	. V	Q	.	.	.
10.417	80.2394	228.87	. V	Q	.	.	.
10.500	81.8275	230.60	. V	Q	.	.	.
10.583	83.4273	232.28	. V	Q	.	.	.
10.667	85.0388	233.99	. V	Q	.	.	.
10.750	86.6621	235.71	. V	Q	.	.	.
10.833	88.2974	237.44	. V	Q	.	.	.
10.917	89.9447	239.20	. V	Q	.	.	.
11.000	91.6041	240.94	. V	Q	.	.	.
11.083	93.2753	242.65	. V	Q	.	.	.
11.167	94.9584	244.39	. V	Q	.	.	.
11.250	96.6536	246.14	. V	Q	.	.	.
11.333	98.3610	247.92	. V	.Q	.	.	.
11.417	100.0808	249.71	. V	.Q	.	.	.
11.500	101.8130	251.52	. V	.Q	.	.	.
11.583	103.5577	253.33	. V	.Q	.	.	.
11.667	105.3148	255.13	. V	.Q	.	.	.
11.750	107.0844	256.94	. V	.Q	.	.	.
11.833	108.8666	258.78	. V	.Q	.	.	.
11.917	110.6616	260.64	. V	.Q	.	.	.
12.000	112.4696	262.52	. V	.Q	.	.	.
12.083	114.2927	264.71	. V	.Q	.	.	.
12.167	116.1330	267.22	. V	.Q	.	.	.
12.250	117.9903	269.68	. V	.Q	.	.	.
12.333	119.8640	272.06	. V	.Q	.	.	.
12.417	121.7542	274.45	. V	.Q	.	.	.
12.500	123.6610	276.87	. V	.Q	.	.	.
12.583	125.5846	279.30	. V	.Q	.	.	.
12.667	127.5251	281.77	. V	.Q	.	.	.
12.750	129.4828	284.25	. V	.Q	.	.	.
12.833	131.4577	286.76	. V	.Q	.	.	.
12.917	133.4501	289.30	. V	.Q	.	.	.
13.000	135.4602	291.86	. V	.Q	.	.	.
13.083	137.4881	294.45	. V	.Q	.	.	.
13.167	139.5347	297.17	. V	.Q	.	.	.
13.250	141.6011	300.05	. V	.Q	.	.	.
13.333	143.6872	302.89	. V	.Q	.	.	.
13.417	145.7930	305.76	. V	.Q	.	.	.
13.500	147.9187	308.66	. V	.Q	.	.	.
13.583	150.0647	311.59	. V	.Q	.	.	.

13.667	152.2310	314.56	. V	. Q	.	.	.
13.750	154.4180	317.55	. V	. Q	.	.	.
13.833	156.6259	320.59	. V	. Q	.	.	.
13.917	158.8581	324.10	. V	. Q	.	.	.
14.000	161.1167	327.95	. V	. Q	.	.	.
14.083	163.4038	332.09	. V	. Q	.	.	.
14.167	165.7217	336.55	. V	. Q	.	.	.
14.250	168.0705	341.06	. V	. Q	.	.	.
14.333	170.4532	345.96	. V	. Q	.	.	.
14.417	172.8704	350.97	. V	. Q	.	.	.
14.500	175.3221	356.00	. V	. Q	.	.	.
14.583	177.8099	361.22	. V	. Q	.	.	.
14.667	180.3362	366.83	. V	. Q	.	.	.
14.750	182.9014	372.46	. V	. Q	.	.	.
14.833	185.5045	377.98	. V	. Q	.	.	.
14.917	188.1443	383.30	. V	. Q	.	.	.
15.000	190.8208	388.63	. V	. Q	.	.	.
15.083	193.5340	393.96	. V	. Q	.	.	.
15.167	196.2848	399.40	. V	. Q	.	.	.
15.250	199.0743	405.04	. V	. Q	.	.	.
15.333	201.9074	411.38	. V	. Q	.	.	.
15.417	204.7873	418.16	. V	. Q	.	.	.
15.500	207.7063	423.84	. V	. Q	.	.	.
15.583	210.6608	428.99	. V	. Q	.	.	.
15.667	213.6515	434.25	. V	. Q	.	.	.
15.750	216.6781	439.46	. V	. Q	.	.	.
15.833	219.7406	444.68	. V	. Q	.	.	.
15.917	222.8443	450.65	. V	. Q	.	.	.
16.000	225.9978	457.89	. V	. Q	.	.	.
16.083	229.2146	467.08	. V	. Q	.	.	.
16.167	232.4951	476.33	. V	.Q	.	.	.
16.250	235.8272	483.82	. V	.Q	.	.	.
16.333	239.2071	490.77	. V	.Q	.	.	.
16.417	242.6349	497.71	. V	.Q	.	.	.
16.500	246.1120	504.88	. V	.Q	.	.	.
16.583	249.6381	511.99	. V	.Q	.	.	.
16.667	253.2159	519.50	. V	. Q	.	.	.
16.750	256.8494	527.58	. V	. Q	.	.	.
16.833	260.5422	536.19	. V	. Q	.	.	.
16.917	264.2906	544.26	. V	. Q	.	.	.
17.000	268.0932	552.14	. V	. Q	.	.	.
17.083	271.9534	560.51	. V	. Q	.	.	.
17.167	275.8812	570.31	. V	. Q	.	.	.
17.250	279.8701	579.20	. V	. Q	.	.	.
17.333	283.9105	586.66	. V	. Q	.	.	.
17.417	288.0002	593.83	. V	. Q	.	.	.
17.500	292.1332	600.12	. V	. Q	.	.	.
17.583	296.3101	606.47	. V	. Q	.	.	.
17.667	300.5445	614.84	. V	. Q	.	.	.
17.750	304.8302	622.28	. V	. Q	.	.	.
17.833	309.1698	630.10	. V	. Q	.	.	.
17.917	313.5829	640.80	. V	. Q	.	.	.
18.000	318.0581	649.80	. V	. Q	.	.	.
18.083	322.5798	656.54	. V	. Q	.	.	.
18.167	327.1543	664.22	. V	. Q	.	.	.
18.250	331.7929	673.53	. V	. Q	.	.	.
18.333	336.5068	684.46	. V	. Q	.	.	.
18.417	341.2677	691.28	. V	. Q	.	.	.

18.500	346.0724	697.64	.	.	V	.	.Q	.
18.583	350.9298	705.30	.	.	V	.	.Q	.
18.667	355.8415	713.17	.	.	V	.	.Q	.
18.750	360.7852	717.83	.	.	V	.	.Q	.
18.833	365.7684	723.56	.	.	V	.	.Q	.
18.917	370.7960	730.01	.	.	V	.	.Q	.
19.000	375.8712	736.91	.	.	V	.	.Q	.
19.083	380.9979	744.40	.	.	V	.	.Q	.
19.167	386.1897	753.85	.	.	V	.	.Q	.
19.250	391.4532	764.26	.	.	V	.	.Q	.
19.333	396.7988	776.19	.	.	V	.	.Q	.
19.417	402.2060	785.12	.	.	V	.	.Q	.
19.500	407.5945	782.42	.	.	V	.	.Q	.
19.583	412.9765	781.46	.	.	V	.	.Q	.
19.667	418.4032	787.96	.	.	V	.	.Q	.
19.750	423.8780	794.94	.	.	V	.	.Q	.
19.833	429.3978	801.47	.	.	V	.	.Q	.
19.917	434.9655	808.43	.	.	V	.	.Q	.
20.000	440.5929	817.10	.	.	V	.	.Q	.
20.083	446.2542	822.02	.	.	V	.	.Q	.
20.167	451.9539	827.60	.	.	V	.	.Q	.
20.250	457.6821	831.74	.	.	V	.	.Q	.
20.333	463.3974	829.86	.	.	V	.	.Q	.
20.417	469.0986	827.82	.	.	V	.	.Q	.
20.500	474.7957	827.21	.	.	V	.	.Q	.
20.583	480.5046	828.94	.	.	V	.	.Q	.
20.667	486.2233	830.35	.	.	V	.	.Q	.
20.750	491.9769	835.43	.	.	V	.	.Q	.
20.833	497.7574	839.32	.	.	V	.	.Q	.
20.917	503.5207	836.84	.	.	.V	.	.Q	.
21.000	509.2562	832.79	.	.	.V	.	.Q	.
21.083	515.0197	836.86	.	.	.V	.	.Q	.
21.167	520.8269	843.21	.	.	.V	.	.Q	.
21.250	526.5924	837.15	.	.	.V	.	.Q	.
21.333	532.3138	830.76	.	.	.V	.	.Q	.
21.417	537.9743	821.90	.	.	.V	.	.Q	.
21.500	543.6328	821.61	.	.	.V	.	.Q	.
21.583	549.3260	826.67	.	.	.V	.	.Q	.
21.667	555.1078	839.51	.	.	.V	.	.Q	.
21.750	560.8214	829.61	.	.	.V	.	.Q	.
21.833	566.5061	825.42	.	.	.V	.	.Q	.
21.917	572.1915	825.52	.	.	.V	.	.Q	.
22.000	577.8699	824.51	.	.	.V	.	.Q	.
22.083	583.5355	822.63	.	.	.V	.	.Q	.
22.167	589.2075	823.57	.	.	.V	.	.Q	.
22.250	594.8752	822.96	.	.	.V	.	.Q	.
22.333	600.5165	819.12	.	.	.V	.	.Q	.
22.417	606.0482	803.19	.	.	.V	.	.Q	.
22.500	611.5484	798.64	.	.	.V	.	.Q	.
22.583	617.0186	794.26	.	.	.V	.	.Q	.
22.667	622.4517	788.88	.	.	.V	.	.Q	.
22.750	627.8359	781.80	.	.	.V	.	.Q	.
22.833	633.1833	776.44	.	.	.V	.	.Q	.
22.917	638.5126	773.82	.	.	.V	.	.Q	.
23.000	643.8234	771.13	.	.	.V	.	.Q	.
23.083	649.1151	768.35	.	.	.V	.	.Q	.
23.167	654.3706	763.09	.	.	.V	.	.Q	.
23.250	659.6010	759.46	.	.	.V	.	.Q	.

23.333	664.7314	744.93	.	.	.	.	V	.Q	.
23.417	669.8038	736.51	.	.	.	.	V	.Q	.
23.500	674.8216	728.59	.	.	.	.	V	.Q	.
23.583	679.8068	723.86	.	.	.	.	V	.Q	.
23.667	684.7408	716.41	.	.	.	.	V	.Q	.
23.750	689.6398	711.33	.	.	.	.	V	.Q	.
23.833	694.5178	708.30	.	.	.	.	V	.Q	.
23.917	699.3627	703.47	.	.	.	.	V	.Q	.
24.000	704.1260	691.63	.	.	.	.	VQ	.	.
24.083	708.8197	681.53	.	.	.	.	VQ	.	.
24.167	713.4624	674.12	.	.	.	.	Q	.	.
24.250	718.0553	666.88	.	.	.	.	QV	.	.
24.333	722.5840	657.56	.	.	.	.	QV	.	.
24.417	727.0515	648.68	.	.	.	.	Q	V	.
24.500	731.4593	640.02	.	.	.	.	Q	V	.
24.583	735.7988	630.10	.	.	.	.	Q	V	.
24.667	740.0610	618.87	.	.	.	.	Q	.V	.
24.750	744.2746	611.82	.	.	.	.	Q	.V	.
24.833	748.4406	604.91	.	.	.	.	Q	.V	.
24.917	752.5521	596.98	.	.	.	.	Q	.V	.
25.000	756.6064	588.69	.	.	.	.	Q	.V	.
25.083	760.6057	580.70	.	.	.	.	Q	.V	.
25.167	764.5504	572.77	.	.	.	.	Q	.V	.
25.250	768.4297	563.28	.	.	.	.	Q	.V	.
25.333	772.2437	553.79	.	.	.	.	Q	.V	.
25.417	775.9951	544.69	.	.	.	.	Q	.V	.
25.500	779.6859	535.90	.	.	.	.	Q	.V	.
25.583	783.3258	528.52	.	.	.	.	Q	.V	.
25.667	786.9187	521.68	.	.	.	.	Q	.V	.
25.750	790.4604	514.25	.	.	.	.	Q	.V	.
25.833	793.9530	507.12	.	.	.	.	Q	.V	.
25.917	797.3942	499.66	.	.	.	.	Q	.V	.
26.000	800.7856	492.44	.	.	.	.	.Q	.V	.
26.083	804.1199	484.13	.	.	.	.	.Q	.V	.
26.167	807.4034	476.77	.	.	.	.	.Q	.V	.
26.250	810.6384	469.72	.	.	.	.	Q	.V	.
26.333	813.8212	462.14	.	.	.	.	Q	.V	.
26.417	816.9490	454.16	.	.	.	.	Q	.V	.
26.500	820.0126	444.84	.	.	.	.	Q.	.V	.
26.583	823.0217	436.93	.	.	.	.	Q.	.V	.
26.667	825.9839	430.10	.	.	.	.	Q.	.V	.
26.750	828.9002	423.45	.	.	.	.	Q.	.V	.
26.833	831.7692	416.57	.	.	.	.	Q.	.V	.
26.917	834.5883	409.33	.	.	.	.	Q.	.V	.
27.000	837.3559	401.86	.	.	.	.	Q	.V	.
27.083	840.0731	394.54	.	.	.	.	Q	.V	.
27.167	842.7440	387.81	.	.	.	.	Q	.V	.
27.250	845.3676	380.94	.	.	.	.	Q	.V	.
27.333	847.9404	373.58	.	.	.	.	Q	.V	.
27.417	850.4594	365.75	.	.	.	.	Q	.V	.
27.500	852.9299	358.72	.	.	.	.	Q	.V	.
27.583	855.3549	352.11	.	.	.	.	Q	.V	.
27.667	857.7349	345.57	.	.	.	.	Q	.V	.
27.750	860.0743	339.68	.	.	.	.	Q	.V	.
27.833	862.3737	333.88	.	.	.	.	Q	.V	.
27.917	864.6335	328.13	.	.	.	.	Q	.V	.
28.000	866.8516	322.06	.	.	.	.	Q	.V	.
28.083	869.0297	316.27	.	.	.	.	Q	.V	.

28.167	871.1652	310.07	.	.	Q	.	.	V	.
28.250	873.2525	303.08	.	.	Q	.	.	V	.
28.333	875.2919	296.12	.	.	Q	.	.	V	.
28.417	877.2946	290.79	.	.	Q	.	.	V	.
28.500	879.2631	285.83	.	.	Q	.	.	V	.
28.583	881.1991	281.10	.	.	Q	.	.	V	.
28.667	883.1028	276.43	.	.	Q	.	.	V	.
28.750	884.9719	271.39	.	.	Q	.	.	V	.
28.833	886.8036	265.96	.	.	Q	.	.	V	.
28.917	888.5982	260.58	.	.	Q	.	.	V	.
29.000	890.3572	255.40	.	.	Q	.	.	V	.
29.083	892.0785	249.94	.	.	Q	.	.	V	.
29.167	893.7570	243.71	.	.	Q	.	.	V	.
29.250	895.3914	237.33	.	.	Q	.	.	V	.
29.333	896.9845	231.32	.	.	Q	.	.	V	.
29.417	898.5469	226.86	.	.	Q	.	.	V	.
29.500	900.0800	222.60	.	.	Q	.	.	V	.
29.583	901.5815	218.03	.	.	Q	.	.	V	.
29.667	903.0417	212.01	.	.	Q	.	.	V	.
29.750	904.4650	206.66	.	.	Q	.	.	V	.
29.833	905.8525	201.48	.	.	Q	.	.	V	.
29.917	907.2032	196.12	.	.	Q	.	.	V	.
30.000	908.5181	190.92	.	.	Q	.	.	V	.
30.083	909.7980	185.83	.	.	Q	.	.	V	.
30.167	911.0414	180.55	.	.	Q	.	.	V	.
30.250	912.2498	175.46	.	.	Q	.	.	V	.
30.333	913.4248	170.61	.	.	Q	.	.	V	.
30.417	914.5736	166.81	.	.	Q	.	.	V	.
30.500	915.6973	163.16	.	.	Q	.	.	V	.
30.583	916.7964	159.59	.	.	Q	.	.	V	.
30.667	917.8710	156.03	.	.	Q	.	.	V	.
30.750	918.9202	152.35	.	.	Q	.	.	V	.
30.833	919.9407	148.17	.	.	Q	.	.	V	.
30.917	920.9259	143.06	.	.	Q	.	.	V	.
31.000	921.8847	139.22	.	.	Q	.	.	V	.
31.083	922.8170	135.37	.	.	Q	.	.	V	.
31.167	923.7217	131.36	.	.	Q	.	.	V	.
31.250	924.5942	126.69	.	.	Q	.	.	V	.
31.333	925.4391	122.68	.	.	Q	.	.	V	.
31.417	926.2584	118.95	.	.	Q	.	.	V	.
31.500	927.0541	115.54	.	.	Q	.	.	V	.
31.583	927.8270	112.22	.	.	Q	.	.	V	.
31.667	928.5775	108.98	.	.	Q	.	.	V	.
31.750	929.3060	105.78	.	.	Q	.	.	V	.
31.833	930.0115	102.43	.	.	Q	.	.	V	.
31.917	930.6939	99.09	.	.	Q	.	.	V	.
32.000	931.3563	96.18	.	.	Q	.	.	V	.
32.083	932.0007	93.57	.	.	Q	.	.	V	.
32.167	932.6268	90.91	.	.	Q	.	.	V	.
32.250	933.2346	88.25	.	.	Q	.	.	V	.
32.333	933.8229	85.44	.	.	Q	.	.	V	.
32.417	934.3932	82.80	.	.	Q	.	.	V	.
32.500	934.9455	80.19	.	.	Q	.	.	V	.
32.583	935.4810	77.75	.	.	Q	.	.	V	.
32.667	936.0022	75.69	.	.	Q	.	.	V	.
32.750	936.5089	73.57	.	.	Q	.	.	V	.
32.833	937.0023	71.64	.	.	Q	.	.	V	.
32.917	937.4837	69.90	.	.	Q	.	.	V	.

33.000	937.9531	68.15	.	Q	.	.	.	V	.
33.083	938.4111	66.51	.	Q	.	.	.	V	.
33.167	938.8573	64.78	.	Q	.	.	.	V	.
33.250	939.2915	63.05	.	Q	.	.	.	V	.
33.333	939.7136	61.30	.	Q	.	.	.	V	.
33.417	940.1246	59.67	.	Q	.	.	.	V	.
33.500	940.5249	58.12	.	Q	.	.	.	V	.
33.583	940.9147	56.59	.	Q	.	.	.	V	.
33.667	941.2939	55.07	.	Q	.	.	.	V	.
33.750	941.6630	53.58	.	Q	.	.	.	V	.
33.833	942.0219	52.11	.	Q	.	.	.	V	.
33.917	942.3705	50.62	.	Q	.	.	.	V	.
34.000	942.7095	49.22	.	Q	.	.	.	V	.
34.083	943.0397	47.95	.	Q	.	.	.	V	.
34.167	943.3610	46.65	.	Q	.	.	.	V	.
34.250	943.6740	45.45	.	Q	.	.	.	V	.
34.333	943.9785	44.21	.	Q	.	.	.	V	.
34.417	944.2748	43.03	.	Q	.	.	.	V	.
34.500	944.5640	41.98	.	Q	.	.	.	V	.
34.583	944.8463	41.00	.	Q	.	.	.	V	.
34.667	945.1219	40.01	.	Q	.	.	.	V	.
34.750	945.3907	39.04	.	Q	.	.	.	V	.
34.833	945.6529	38.06	.	Q	.	.	.	V	.
34.917	945.9084	37.10	.	Q	.	.	.	V	.
35.000	946.1575	36.17	.	Q	.	.	.	V	.
35.083	946.4004	35.27	.	Q	.	.	.	V	.
35.167	946.6372	34.39	.	Q	.	.	.	V	.
35.250	946.8680	33.51	.	Q	.	.	.	V	.
35.333	947.0928	32.64	.	Q	.	.	.	V	.
35.417	947.3116	31.77	.	Q	.	.	.	V	.
35.500	947.5244	30.91	.	Q	.	.	.	V	.
35.583	947.7314	30.06	.	Q	.	.	.	V	.
35.667	947.9329	29.26	.	Q	.	.	.	V	.
35.750	948.1285	28.41	.	Q	.	.	.	V	.
35.833	948.3181	27.53	.	Q	.	.	.	V	.
35.917	948.5017	26.66	.	Q	.	.	.	V	.
36.000	948.6793	25.79	.	Q	.	.	.	V	.

-----  
TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
(Note: 100% of Peak Flow Rate estimate assumed to have  
an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
0%	2165.0
10%	1615.0
20%	1340.0
30%	1050.0
40%	815.0
50%	680.0
60%	560.0
70%	455.0
80%	350.0
90%	245.0

=====

END OF FLOODSCx ROUTING ANALYSIS





\*\*\*\*\*

FLOOD ROUTING ANALYSIS  
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)  
(c) Copyright 1989-2013 Advanced Engineering Software (aes)  
Ver. 20.0 Release Date: 06/01/2013 License ID 1237

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*  
\* RMV PA-3 ROMP AMENDMENT 2022 - NODE 138 \*  
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*  
\* 2-YR EV OCT 2022 ROKAMOTO \*  
\*\*\*\*\*

FILE NAME: EVO2138S.DAT  
TIME/DATE OF STUDY: 13:47 10/25/2022

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 138.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<

\*\*\*\*\*

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 69102.703 ACRES  
BASEFLOW = 0.000 CFS/SQUARE-MILE  
\*USER ENTERED "LAG" TIME = 6.463 HOURS  
VALLEY (DEVELOPED) S-GRAPH SELECTED  
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.565  
LOW LOSS FRACTION = 0.899  
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.15  
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.29  
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 0.40  
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 0.73  
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 1.06  
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 1.86

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:  
5-MINUTE FACTOR = 0.287  
30-MINUTE FACTOR = 0.348  
1-HOUR FACTOR = 0.392  
3-HOUR FACTOR = 0.734  
6-HOUR FACTOR = 0.885  
24-HOUR FACTOR = 0.932

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES  
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 1.289

UNIT HYDROGRAPH DETERMINATION

INTERVAL NUMBER	"S" GRAPH MEAN VALUES	UNIT HYDROGRAPH ORDINATES (CFS)
1	0.074	615.745
2	0.221	1231.502
3	0.368	1231.489
4	0.516	1231.495
5	0.663	1231.495
6	0.810	1231.495
7	0.958	1231.496
8	1.105	1231.502
9	1.253	1231.482
10	1.400	1231.489
11	1.547	1231.495
12	1.695	1231.502
13	1.842	1231.513
14	1.996	1290.223
15	2.208	1768.820
16	2.432	1873.999
17	2.657	1874.022
18	2.881	1873.999
19	3.105	1874.010
20	3.329	1874.036
21	3.553	1874.010
22	3.778	1874.010
23	4.026	2077.717
24	4.416	3258.251
25	4.829	3448.183
26	5.241	3448.183
27	5.654	3448.211
28	6.095	3686.409
29	6.631	4474.678
30	7.173	4537.139
31	7.716	4537.035
32	8.328	5115.251
33	9.016	5746.667
34	9.704	5746.078
35	10.367	5543.378
36	11.012	5387.820
37	11.656	5387.812
38	12.301	5387.717
39	12.946	5387.812
40	13.590	5387.812
41	14.380	6596.465
42	15.408	8590.947
43	16.292	7388.734
44	16.981	5754.933
45	17.668	5747.010
46	18.356	5747.026
47	19.044	5746.819
48	19.732	5755.713

49	20.524	6613.568
50	21.383	7184.217
51	22.295	7622.932
52	23.323	8586.787
53	24.250	7743.597
54	24.990	6187.909
55	25.727	6157.447
56	26.464	6157.432
57	27.200	6157.447
58	27.962	6369.496
59	28.943	8198.314
60	29.956	8457.833
61	30.839	7381.027
62	31.703	7223.971
63	32.837	9474.911
64	34.080	10390.309
65	35.133	8794.500
66	36.089	7996.579
67	36.797	5914.156
68	37.485	5747.202
69	38.427	7874.734
70	39.929	12549.881
71	41.077	9598.732
72	42.189	9288.573
73	43.397	10097.971
74	44.563	9742.733
75	45.684	9370.855
76	46.947	10556.881
77	48.340	11638.404
78	49.848	12601.303
79	50.885	8668.319
80	51.823	7837.531
81	52.761	7836.734
82	53.697	7825.671
83	54.583	7403.997
84	55.443	7185.588
85	56.365	7703.030
86	57.394	8605.006
87	58.474	9019.571
88	59.624	9612.982
89	60.984	11367.841
90	62.331	11255.464
91	63.426	9152.511
92	64.423	8331.254
93	65.318	7483.091
94	66.199	7362.840
95	67.044	7057.431
96	67.901	7163.400
97	68.915	8472.067
98	69.937	8546.475
99	70.732	6638.084
100	71.484	6286.832
101	72.265	6525.739
102	73.104	7008.336
103	73.939	6983.087
104	74.740	6693.491
105	75.534	6631.771
106	76.236	5865.890

107	76.809	4794.600
108	77.383	4791.476
109	77.956	4788.288
110	78.529	4791.412
111	79.101	4785.164
112	79.675	4791.412
113	80.263	4911.727
114	80.869	5069.978
115	81.476	5069.915
116	82.070	4962.352
117	82.617	4576.287
118	83.160	4535.098
119	83.703	4535.098
120	84.222	4345.222
121	84.713	4101.533
122	85.205	4107.845
123	85.696	4104.721
124	86.150	3797.718
125	86.548	3323.027
126	86.945	3316.651
127	87.341	3313.527
128	87.738	3316.651
129	88.102	3041.337
130	88.407	2544.458
131	88.710	2535.021
132	89.013	2534.957
133	89.317	2534.957
134	89.620	2538.145
135	89.923	2525.521
136	90.203	2345.081
137	90.475	2269.143
138	90.746	2269.143
139	91.017	2265.955
140	91.289	2272.267
141	91.560	2266.019
142	91.832	2269.143
143	92.094	2186.829
144	92.339	2053.954
145	92.585	2050.766
146	92.830	2050.766
147	93.076	2057.078
148	93.322	2050.766
149	93.567	2050.766
150	93.812	2050.766
151	94.037	1873.578
152	94.203	1386.135
153	94.367	1373.511
154	94.530	1360.823
155	94.694	1373.511
156	94.858	1373.511
157	95.021	1360.887
158	95.186	1373.511
159	95.349	1367.135
160	95.513	1367.199
161	95.676	1367.199
162	95.840	1367.135
163	95.995	1297.573
164	96.104	905.132

165	96.205	848.131
166	96.306	841.819
167	96.407	848.195
168	96.508	841.819
169	96.609	848.131
170	96.710	841.883
171	96.812	848.131
172	96.913	848.131
173	97.014	841.819
174	97.115	848.195
175	97.216	841.819
176	97.317	841.819
177	97.418	848.195
178	97.520	848.131
179	97.621	841.819
180	97.722	848.131
181	97.823	841.883
182	97.924	841.819
183	98.004	670.943
184	98.031	227.813
185	98.055	196.252
186	98.079	202.501
187	98.104	208.877
188	98.127	196.252
189	98.152	202.564
190	98.175	196.189
191	98.201	215.189
192	98.223	189.876
193	98.248	208.877
194	98.273	202.564
195	98.296	196.189
196	98.320	202.564
197	98.345	208.877
198	98.369	196.189
199	98.392	196.252
200	98.417	208.877
201	98.442	202.564
202	98.466	202.501
203	98.490	202.564
204	98.514	202.564
205	98.539	202.501
206	98.562	196.252
207	98.587	208.877
208	98.610	196.189
209	98.635	208.877
210	98.660	202.564
211	98.682	189.876
212	98.708	215.189
213	98.731	189.876
214	98.757	215.253
215	98.779	189.876
216	98.804	202.501
217	98.829	215.253
218	98.852	189.876
219	98.878	215.189
220	98.901	189.876
221	98.925	202.564
222	98.949	202.564

223	98.973	202.501
224	98.999	215.253
225	99.022	189.876
226	99.044	189.876
227	99.067	189.876
228	99.090	189.876
229	99.113	189.876
230	99.135	189.876
231	99.158	189.876
232	99.181	189.876
233	99.204	189.876
234	99.226	189.876
235	99.249	189.876
236	99.272	189.876
237	99.294	189.876
238	99.317	189.876
239	99.340	189.876
240	99.363	189.876
241	99.385	189.876
242	99.408	189.876
243	99.431	189.876
244	99.453	189.876
245	99.476	189.876
246	99.499	189.876
247	99.522	189.876
248	99.544	189.876
249	99.567	189.876
250	99.590	189.876
251	99.612	189.876
252	99.635	189.876
253	99.658	189.876
254	99.681	189.876
255	99.703	189.876
256	99.726	189.876
257	99.749	189.876
258	99.772	189.876
259	99.794	189.876
260	99.817	189.876
261	99.840	189.876
262	99.862	189.876
263	99.885	189.876
264	99.908	189.876
265	99.931	189.876
266	99.953	189.876
267	99.976	189.876
268	99.999	189.876
269	100.000	10.712

-----  
TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 8968.2979  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 1007.0403  
-----

=====

2 4 - 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 FIVE-MINUTE UNIT INTERVALS (CFS)

(Note: Time indicated is at END of Each Unit Intervals)

TIME (HRS)	VOLUME (AF)	Q (CFS)	0.	225.0	450.0	675.0	900.0
0.083	0.0011	0.16	Q	.	.	.	.
0.167	0.0045	0.49	Q	.	.	.	.
0.250	0.0102	0.83	Q	.	.	.	.
0.333	0.0182	1.16	Q	.	.	.	.
0.417	0.0284	1.49	Q	.	.	.	.
0.500	0.0410	1.82	Q	.	.	.	.
0.583	0.0559	2.16	Q	.	.	.	.
0.667	0.0730	2.49	Q	.	.	.	.
0.750	0.0925	2.83	Q	.	.	.	.
0.833	0.1144	3.17	Q	.	.	.	.
0.917	0.1385	3.51	Q	.	.	.	.
1.000	0.1650	3.85	Q	.	.	.	.
1.083	0.1938	4.19	Q	.	.	.	.
1.167	0.2251	4.55	Q	.	.	.	.
1.250	0.2598	5.03	Q	.	.	.	.
1.333	0.2980	5.55	Q	.	.	.	.
1.417	0.3398	6.07	Q	.	.	.	.
1.500	0.3851	6.59	Q	.	.	.	.
1.583	0.4341	7.11	Q	.	.	.	.
1.667	0.4866	7.63	Q	.	.	.	.
1.750	0.5428	8.15	Q	.	.	.	.
1.833	0.6026	8.68	Q	.	.	.	.
1.917	0.6664	9.26	Q	.	.	.	.
2.000	0.7364	10.16	Q	.	.	.	.
2.083	0.8129	11.12	Q	.	.	.	.
2.167	0.8961	12.07	Q	.	.	.	.
2.250	0.9858	13.03	Q	.	.	.	.
2.333	1.0826	14.06	Q	.	.	.	.
2.417	1.1880	15.30	Q	.	.	.	.
2.500	1.3021	16.56	Q	.	.	.	.
2.583	1.4248	17.82	Q	.	.	.	.
2.667	1.5574	19.25	Q	.	.	.	.
2.750	1.7009	20.84	Q	.	.	.	.
2.833	1.8555	22.45	Q	.	.	.	.
2.917	2.0208	24.00	VQ	.	.	.	.
3.000	2.1965	25.51	VQ	.	.	.	.
3.083	2.3827	27.03	VQ	.	.	.	.
3.167	2.5793	28.56	VQ	.	.	.	.
3.250	2.7866	30.09	VQ	.	.	.	.
3.333	3.0044	31.63	VQ	.	.	.	.
3.417	3.2350	33.49	VQ	.	.	.	.
3.500	3.4822	35.89	VQ	.	.	.	.
3.583	3.7438	37.98	VQ	.	.	.	.
3.667	4.0168	39.64	VQ	.	.	.	.
3.750	4.3013	41.30	VQ	.	.	.	.
3.833	4.5972	42.97	VQ	.	.	.	.
3.917	4.9047	44.65	VQ	.	.	.	.

4.000	5.2238	46.33	V	Q	.	.	.	.
4.083	5.5560	48.25	V	Q	.	.	.	.
4.167	5.9026	50.32	V	Q	.	.	.	.
4.250	6.2643	52.52	V	Q	.	.	.	.
4.333	6.6430	54.99	V	Q	.	.	.	.
4.417	7.0372	57.24	V	Q	.	.	.	.
4.500	7.4441	59.08	V	Q	.	.	.	.
4.583	7.8637	60.92	V	Q	.	.	.	.
4.667	8.2959	62.76	V	Q	.	.	.	.
4.750	8.7409	64.61	V	Q	.	.	.	.
4.833	9.1991	66.53	V	Q	.	.	.	.
4.917	9.6739	68.94	V	Q	.	.	.	.
5.000	10.1659	71.43	V	Q	.	.	.	.
5.083	10.6731	73.64	V	Q	.	.	.	.
5.167	11.1952	75.82	V	Q	.	.	.	.
5.250	11.7366	78.60	V	Q	.	.	.	.
5.333	12.2989	81.65	V	Q	.	.	.	.
5.417	12.8792	84.27	V	Q	.	.	.	.
5.500	13.4763	86.69	V	Q	.	.	.	.
5.583	14.0862	88.56	V	Q	.	.	.	.
5.667	14.7088	90.40	V	Q	.	.	.	.
5.750	15.3480	92.81	V	Q	.	.	.	.
5.833	16.0125	96.48	V	Q	.	.	.	.
5.917	16.6969	99.38	V	Q	.	.	.	.
6.000	17.4007	102.20	V	Q	.	.	.	.
6.083	18.1256	105.25	V	Q	.	.	.	.
6.167	18.8709	108.22	V	Q	.	.	.	.
6.250	19.6360	111.09	V	Q	.	.	.	.
6.333	20.4232	114.30	V	Q	.	.	.	.
6.417	21.2345	117.81	V	Q	.	.	.	.
6.500	22.0719	121.58	V	Q	.	.	.	.
6.583	22.9281	124.32	V	Q	.	.	.	.
6.667	23.8017	126.85	V	Q	.	.	.	.
6.750	24.6928	129.39	V	Q	.	.	.	.
6.833	25.6015	131.94	.V	Q	.	.	.	.
6.917	26.5270	134.38	.V	Q	.	.	.	.
7.000	27.4690	136.78	.V	Q	.	.	.	.
7.083	28.4285	139.32	.V	Q	.	.	.	.
7.167	29.4073	142.12	.V	Q	.	.	.	.
7.250	30.4062	145.04	.V	Q	.	.	.	.
7.333	31.4264	148.13	.V	Q	.	.	.	.
7.417	32.4711	151.70	.V	Q	.	.	.	.
7.500	33.5404	155.26	.V	Q	.	.	.	.
7.583	34.6305	158.27	.V	Q	.	.	.	.
7.667	35.7398	161.07	.V	Q	.	.	.	.
7.750	36.8669	163.66	.V	Q	.	.	.	.
7.833	38.0118	166.23	.V	Q	.	.	.	.
7.917	39.1738	168.73	.V	Q	.	.	.	.
8.000	40.3534	171.27	.V	Q	.	.	.	.
8.083	41.5529	174.17	.V	Q	.	.	.	.
8.167	42.7727	177.11	.V	Q	.	.	.	.
8.250	44.0092	179.54	.V	Q	.	.	.	.
8.333	45.2620	181.90	.V	Q	.	.	.	.
8.417	46.5315	184.33	.V	Q	.	.	.	.
8.500	47.8188	186.91	.V	Q	.	.	.	.
8.583	49.1238	189.49	.V	Q	.	.	.	.
8.667	50.4462	192.01	.V	Q	.	.	.	.
8.750	51.7859	194.52	.V	Q	.	.	.	.

8.833	53.1416	196.85	. V	Q .	.	.	.
8.917	54.5114	198.89	. V	Q .	.	.	.
9.000	55.8954	200.96	. V	Q .	.	.	.
9.083	57.2936	203.03	. V	Q .	.	.	.
9.167	58.7063	205.12	. V	Q .	.	.	.
9.250	60.1334	207.21	. V	Q .	.	.	.
9.333	61.5750	209.33	. V	Q .	.	.	.
9.417	63.0315	211.48	. V	Q .	.	.	.
9.500	64.5033	213.70	. V	Q .	.	.	.
9.583	65.9904	215.93	. V	Q .	.	.	.
9.667	67.4927	218.14	. V	Q .	.	.	.
9.750	69.0097	220.27	. V	Q .	.	.	.
9.833	70.5414	222.40	. V	Q .	.	.	.
9.917	72.0879	224.54	. V	Q .	.	.	.
10.000	73.6488	226.65	. V	Q .	.	.	.
10.083	75.2240	228.71	. V	Q .	.	.	.
10.167	76.8134	230.79	. V	Q .	.	.	.
10.250	78.4172	232.88	. V	Q .	.	.	.
10.333	80.0350	234.90	. V	Q .	.	.	.
10.417	81.6659	236.81	. V	Q .	.	.	.
10.500	83.3102	238.74	. V	Q .	.	.	.
10.583	84.9678	240.68	. V	Q .	.	.	.
10.667	86.6389	242.65	. V	Q .	.	.	.
10.750	88.3231	244.55	. V	Q .	.	.	.
10.833	90.0196	246.34	. V	Q .	.	.	.
10.917	91.7285	248.14	. V	.Q	.	.	.
11.000	93.4500	249.96	. V	.Q	.	.	.
11.083	95.1841	251.79	. V	.Q	.	.	.
11.167	96.9311	253.65	. V	.Q	.	.	.
11.250	98.6908	255.52	. V	.Q	.	.	.
11.333	100.4633	257.37	. V	.Q	.	.	.
11.417	102.2485	259.21	. V	.Q	.	.	.
11.500	104.0465	261.07	. V	.Q	.	.	.
11.583	105.8574	262.95	. V	.Q	.	.	.
11.667	107.6815	264.85	. V	.Q	.	.	.
11.750	109.5188	266.77	. V	.Q	.	.	.
11.833	111.3695	268.72	. V	.Q	.	.	.
11.917	113.2336	270.66	. V	.Q	.	.	.
12.000	115.1110	272.60	. V	.Q	.	.	.
12.083	117.0039	274.85	. V	.Q	.	.	.
12.167	118.9146	277.44	. V	.Q	.	.	.
12.250	120.8433	280.04	. V	.Q	.	.	.
12.333	122.7900	282.67	. V	.Q	.	.	.
12.417	124.7550	285.31	. V	.Q	.	.	.
12.500	126.7383	287.98	. V	.Q	.	.	.
12.583	128.7399	290.63	. V	.Q	.	.	.
12.667	130.7589	293.17	. V	.Q	.	.	.
12.750	132.7956	295.73	. V	.Q	.	.	.
12.833	134.8501	298.31	. V	.Q	.	.	.
12.917	136.9226	300.92	. V	.Q	.	.	.
13.000	139.0133	303.57	. V	.Q	.	.	.
13.083	141.1223	306.23	. V	.Q	.	.	.
13.167	143.2501	308.95	. V	.Q	.	.	.
13.250	145.3984	311.94	. V	.Q	.	.	.
13.333	147.5679	315.01	. V	.Q	.	.	.
13.417	149.7587	318.10	. V	.Q	.	.	.
13.500	151.9710	321.23	. V	.Q	.	.	.
13.583	154.2049	324.37	. V	.Q	.	.	.

13.667	156.4600	327.44	. V	. Q	.	.	.
13.750	158.7363	330.52	. V	. Q	.	.	.
13.833	161.0340	333.64	. V	. Q	.	.	.
13.917	163.3542	336.89	. V	. Q	.	.	.
14.000	165.7011	340.76	. V	. Q	.	.	.
14.083	168.0773	345.03	. V	. Q	.	.	.
14.167	170.4852	349.62	. V	. Q	.	.	.
14.250	172.9247	354.22	. V	. Q	.	.	.
14.333	175.3968	358.95	. V	. Q	.	.	.
14.417	177.9042	364.07	. V	. Q	.	.	.
14.500	180.4473	369.25	. V	. Q	.	.	.
14.583	183.0260	374.43	. V	. Q	.	.	.
14.667	185.6425	379.91	. V	. Q	.	.	.
14.750	188.2989	385.71	. V	. Q	.	.	.
14.833	190.9954	391.53	. V	. Q	.	.	.
14.917	193.7312	397.24	. V	. Q	.	.	.
15.000	196.5061	402.91	. V	. Q	.	.	.
15.083	199.3199	408.57	. V	. Q	.	.	.
15.167	202.1730	414.28	. V	. Q	.	.	.
15.250	205.0667	420.16	. V	. Q	.	.	.
15.333	208.0005	425.98	. V	. Q	.	.	.
15.417	210.9756	431.99	. V	. Q	.	.	.
15.500	213.9964	438.62	. V	. Q	.	.	.
15.583	217.0592	444.73	. V	. Q	.	.	.
15.667	220.1593	450.13	. V	. Q	.	.	.
15.750	223.2963	455.49	. V	. Q	.	.	.
15.833	226.4704	460.87	. V	. Q	.	.	.
15.917	229.6840	466.62	. V	. Q	.	.	.
16.000	232.9445	473.42	. V	. Q	.	.	.
16.083	236.2682	482.60	. V	. Q	.	.	.
16.167	239.6544	491.68	. V	. Q	.	.	.
16.250	243.0904	498.92	. V	. Q	.	.	.
16.333	246.5796	506.63	. V	. Q	.	.	.
16.417	250.1232	514.54	. V	. Q	.	.	.
16.500	253.7185	522.04	. V	. Q	.	.	.
16.583	257.3634	529.23	. V	. Q	.	.	.
16.667	261.0595	536.68	. V	. Q	.	.	.
16.750	264.8091	544.45	. V	. Q	.	.	.
16.833	268.6132	552.34	. V	. Q	.	.	.
16.917	272.4765	560.96	. V	. Q	.	.	.
17.000	276.4000	569.68	. V	. Q	.	.	.
17.083	280.3790	577.75	. V	. Q	.	.	.
17.167	284.4136	585.82	. V	. Q	.	.	.
17.250	288.5175	595.89	. V	. Q	.	.	.
17.333	292.6796	604.33	. V	. Q	.	.	.
17.417	296.8947	612.04	. V	. Q	.	.	.
17.500	301.1667	620.29	. V	. Q	.	.	.
17.583	305.4859	627.15	. V	. Q	.	.	.
17.667	309.8450	632.94	. V	. Q	.	.	.
17.750	314.2485	639.38	. V	. Q	.	.	.
17.833	318.7157	648.64	. V	. Q	.	.	.
17.917	323.2443	657.56	. V	. Q	.	.	.
18.000	327.8484	668.50	. V	. Q	.	.	.
18.083	332.5046	676.09	. V	. Q	.	.	.
18.167	337.2080	682.94	. V	. Q	.	.	.
18.250	341.9605	690.06	. V	. Q	.	.	.
18.333	346.7800	699.78	. V	. Q	.	.	.
18.417	351.6766	710.99	. V	. Q	.	.	.

18.500	356.6337	719.77	.	.	V	.	.Q	.
18.583	361.6391	726.79	.	.	V	.	.Q	.
18.667	366.7026	735.23	.	.	V	.	.Q	.
18.750	371.8199	743.03	.	.	V	.	.Q	.
18.833	376.9684	747.58	.	.	V	.	.Q	.
18.917	382.1539	752.92	.	.	V	.	.Q	.
19.000	387.3844	759.47	.	.	V	.	.Q	.
19.083	392.6620	766.31	.	.	V	.	.Q	.
19.167	397.9872	773.21	.	.	V	.	.Q	.
19.250	403.3705	781.66	.	.	V	.	.Q	.
19.333	408.8239	791.83	.	.	V	.	.Q	.
19.417	414.3646	804.51	.	.	V	.	.Q	.
19.500	419.9884	816.58	.	.	V	.	.Q	.
19.583	425.6080	815.97	.	.	V	.	.Q	.
19.667	431.2103	813.45	.	.	V	.	.Q	.
19.750	436.8401	817.44	.	.	V	.	.Q	.
19.833	442.5287	825.98	.	.	V	.	.Q	.
19.917	448.2636	832.71	.	.	V	.	.Q	.
20.000	454.0360	838.15	.	.	V	.	.Q	.
20.083	459.8702	847.12	.	.	V	.	.Q	.
20.167	465.7587	855.01	.	.	V	.	.Q	.
20.250	471.6797	859.73	.	.	V	.	.Q	.
20.333	477.6341	864.57	.	.	V	.	.Q	.
20.417	483.5857	864.18	.	.	V	.	.Q	.
20.500	489.5246	862.33	.	.	V	.	.Q	.
20.583	495.4644	862.46	.	.	V	.	.Q	.
20.667	501.4074	862.92	.	.	V	.	.Q	.
20.750	507.3643	864.94	.	.	V	.	.Q	.
20.833	513.3394	867.58	.	.	V	.	.Q	.
20.917	519.3607	874.29	.	.	V	.	.Q	.
21.000	525.3870	875.02	.	.	V	.	.Q	.
21.083	531.3870	871.20	.	.	.V	.	.Q	.
21.167	537.3687	868.55	.	.	.V	.	.Q	.
21.250	543.3986	875.53	.	.	.V	.	.Q	.
21.333	549.4390	877.07	.	.	.V	.	.Q	.
21.417	555.4268	869.44	.	.	.V	.	.Q	.
21.500	561.3693	862.84	.	.	.V	.	.Q	.
21.583	567.2642	855.94	.	.	.V	.	.Q	.
21.667	573.1736	858.05	.	.	.V	.	.Q	.
21.750	579.1325	865.23	.	.	.V	.	.Q	.
21.833	585.1638	875.75	.	.	.V	.	.Q	.
21.917	591.1131	863.84	.	.	.V	.	.Q	.
22.000	597.0383	860.35	.	.	.V	.	.Q	.
22.083	602.9648	860.52	.	.	.V	.	.Q	.
22.167	608.8876	859.99	.	.	.V	.	.Q	.
22.250	614.7940	857.61	.	.	.V	.	.Q	.
22.333	620.7073	858.61	.	.	.V	.	.Q	.
22.417	626.6202	858.56	.	.	.V	.	.Q	.
22.500	632.5163	856.10	.	.	.V	.	.Q	.
22.583	638.3027	840.18	.	.	.V	.	.Q	.
22.667	644.0540	835.09	.	.	.V	.	.Q	.
22.750	649.7775	831.06	.	.	.V	.	.Q	.
22.833	655.4608	825.21	.	.	.V	.	.Q	.
22.917	661.0922	817.69	.	.	.V	.	.Q	.
23.000	666.6806	811.43	.	.	.V	.	.Q	.
23.083	672.2454	808.00	.	.	.V	.	.Q	.
23.167	677.7955	805.88	.	.	.V	.	.Q	.
23.250	683.3179	801.85	.	.	.V	.	.Q	.

23.333	688.8073	797.05	.	.	.	V	.	.Q	.
23.417	694.2733	793.66	.	.	.	V	.	.Q	.
23.500	699.6681	783.32	.	.	.	V	.	.Q	.
23.583	704.9803	771.34	.	.	.	V	.	.Q	.
23.667	710.2447	764.38	.	.	.	V	.	.Q	.
23.750	715.4597	757.22	.	.	.	V	.	.Q	.
23.833	720.6262	750.18	.	.	.	V	.	.Q	.
23.917	725.7510	744.13	.	.	.	V	.	.Q	.
24.000	730.8460	739.79	.	.	.	V	.	.Q	.
24.083	735.9186	736.54	.	.	.	V	.	.Q	.
24.167	740.9338	728.21	.	.	.	V	.	.Q	.
24.250	745.8575	714.91	.	.	.	V	.	.Q	.
24.333	750.7189	705.88	.	.	.	V	.	.Q	.
24.417	755.5248	697.82	.	.	.	V	.	.Q	.
24.500	760.2766	689.96	.	.	.	.Q	.	.	.
24.583	764.9738	682.04	.	.	.	.Q	.	.	.
24.667	769.6104	673.24	.	.	.	QV	.	.	.
24.750	774.1885	664.74	.	.	.	QV	.	.	.
24.833	778.6926	653.99	.	.	.	QV	.	.	.
24.917	783.1232	643.33	.	.	.	.Q	.V	.	.
25.000	787.5048	636.20	.	.	.	.Q	.V	.	.
25.083	791.8339	628.58	.	.	.	.Q	.V	.	.
25.167	796.1049	620.15	.	.	.	.Q	.V	.	.
25.250	800.3169	611.59	.	.	.	.Q	.V	.	.
25.333	804.4698	603.00	.	.	.	.Q	.V	.	.
25.417	808.5603	593.94	.	.	.	.Q	.V	.	.
25.500	812.5865	584.61	.	.	.	.Q	.V	.	.
25.583	816.5501	575.51	.	.	.	.Q	.V	.	.
25.667	820.4514	566.46	.	.	.	.Q	.V	.	.
25.750	824.2908	557.49	.	.	.	.Q	.V	.	.
25.833	828.0789	550.04	.	.	.	.Q	.V	.	.
25.917	831.8195	543.14	.	.	.	.Q	.V	.	.
26.000	835.5060	535.28	.	.	.	.Q	.V	.	.
26.083	839.1337	526.75	.	.	.	.Q	.V	.	.
26.167	842.7092	519.16	.	.	.	.Q	.V	.	.
26.250	846.2368	512.21	.	.	.	.Q	.V	.	.
26.333	849.7098	504.27	.	.	.	.Q	.V	.	.
26.417	853.1229	495.58	.	.	.	.Q	.V	.	.
26.500	856.4848	488.15	.	.	.	.Q	.V	.	.
26.583	859.7946	480.59	.	.	.	.Q	.V	.	.
26.667	863.0493	472.57	.	.	.	.Q	.V	.	.
26.750	866.2408	463.42	.	.	.	.Q	.V	.	.
26.833	869.3691	454.22	.	.	.	.Q	.V	.	.
26.917	872.4491	447.21	.	.	.	.Q	.V	.	.
27.000	875.4825	440.45	.	.	.	.Q	.V	.	.
27.083	878.4695	433.72	.	.	.	.Q	.V	.	.
27.167	881.4080	426.65	.	.	.	.Q	.V	.	.
27.250	884.2964	419.41	.	.	.	.Q	.V	.	.
27.333	887.1318	411.70	.	.	.	.Q	.V	.	.
27.417	889.9156	404.21	.	.	.	.Q	.V	.	.
27.500	892.6456	396.39	.	.	.	.Q	.V	.	.
27.583	895.3241	388.91	.	.	.	.Q	.V	.	.
27.667	897.9529	381.71	.	.	.	.Q	.V	.	.
27.750	900.5336	374.71	.	.	.	.Q	.V	.	.
27.833	903.0677	367.95	.	.	.	.Q	.V	.	.
27.917	905.5546	361.08	.	.	.	.Q	.V	.	.
28.000	907.9965	354.57	.	.	.	.Q	.V	.	.
28.083	910.3960	348.40	.	.	.	.Q	.V	.	.

28.167	912.7521	342.11	.	.	Q	.	.	V	.
28.250	915.0643	335.73	.	.	Q	.	.	V	.
28.333	917.3321	329.29	.	.	Q	.	.	V	.
28.417	919.5587	323.31	.	.	Q	.	.	V	.
28.500	921.7456	317.54	.	.	Q	.	.	V	.
28.583	923.8884	311.14	.	.	Q	.	.	V	.
28.667	925.9825	304.07	.	.	Q	.	.	V	.
28.750	928.0399	298.73	.	.	Q	.	.	V	.
28.833	930.0624	293.67	.	.	Q	.	.	V	.
28.917	932.0479	288.29	.	.	Q	.	.	V	.
29.000	933.9960	282.86	.	.	Q	.	.	V	.
29.083	935.9086	277.71	.	.	Q	.	.	V	.
29.167	937.7863	272.64	.	.	Q	.	.	V	.
29.250	939.6241	266.85	.	.	Q	.	.	V	.
29.333	941.4201	260.79	.	.	Q	.	.	V	.
29.417	943.1772	255.14	.	.	Q	.	.	V	.
29.500	944.8961	249.57	.	.	Q	.	.	V	.
29.583	946.5785	244.29	.	.	Q	.	.	V	.
29.667	948.2209	238.49	.	.	Q	.	.	V	.
29.750	949.8276	233.29	.	.	Q	.	.	V	.
29.833	951.3917	227.11	.	.	Q	.	.	V	.
29.917	952.9196	221.84	.	.	Q	.	.	V	.
30.000	954.4107	216.51	.	.	Q	.	.	V	.
30.083	955.8640	211.02	.	.	Q	.	.	V	.
30.167	957.2799	205.59	.	.	Q	.	.	V	.
30.250	958.6597	200.34	.	.	Q	.	.	V	.
30.333	960.0010	194.77	.	.	Q	.	.	V	.
30.417	961.3022	188.94	.	.	Q	.	.	V	.
30.500	962.5620	182.92	.	.	Q	.	.	V	.
30.583	963.7891	178.18	.	.	Q	.	.	V	.
30.667	964.9904	174.42	.	.	Q	.	.	V	.
30.750	966.1661	170.72	.	.	Q	.	.	V	.
30.833	967.3164	167.02	.	.	Q	.	.	V	.
30.917	968.4419	163.42	.	.	Q	.	.	V	.
31.000	969.5438	160.00	.	.	Q	.	.	V	.
31.083	970.6206	156.35	.	.	Q	.	.	V	.
31.167	971.6693	152.27	.	.	Q	.	.	V	.
31.250	972.6849	147.46	.	.	Q	.	.	V	.
31.333	973.6622	141.91	.	.	Q	.	.	V	.
31.417	974.6078	137.29	.	.	Q	.	.	V	.
31.500	975.5231	132.90	.	.	Q	.	.	V	.
31.583	976.4120	129.08	.	.	Q	.	.	V	.
31.667	977.2757	125.40	.	.	Q	.	.	V	.
31.750	978.1159	122.00	.	.	Q	.	.	V	.
31.833	978.9329	118.62	.	.	Q	.	.	V	.
31.917	979.7276	115.40	.	.	Q	.	.	V	.
32.000	980.4990	112.01	.	.	Q	.	.	V	.
32.083	981.2458	108.43	.	.	Q	.	.	V	.
32.167	981.9672	104.74	.	.	Q	.	.	V	.
32.250	982.6675	101.69	.	.	Q	.	.	V	.
32.333	983.3489	98.95	.	.	Q	.	.	V	.
32.417	984.0115	96.21	.	.	Q	.	.	V	.
32.500	984.6542	93.31	.	.	Q	.	.	V	.
32.583	985.2773	90.47	.	.	Q	.	.	V	.
32.667	985.8819	87.79	.	.	Q	.	.	V	.
32.750	986.4678	85.08	.	.	Q	.	.	V	.
32.833	987.0367	82.61	.	.	Q	.	.	V	.
32.917	987.5908	80.44	.	.	Q	.	.	V	.

33.000	988.1300	78.30	.	Q	.	.	.	V	.
33.083	988.6547	76.18	.	Q	.	.	.	V	.
33.167	989.1647	74.05	.	Q	.	.	.	V	.
33.250	989.6612	72.10	.	Q	.	.	.	V	.
33.333	990.1453	70.29	.	Q	.	.	.	V	.
33.417	990.6173	68.54	.	Q	.	.	.	V	.
33.500	991.0768	66.73	.	Q	.	.	.	V	.
33.583	991.5239	64.91	.	Q	.	.	.	V	.
33.667	991.9596	63.26	.	Q	.	.	.	V	.
33.750	992.3836	61.57	.	Q	.	.	.	V	.
33.833	992.7972	60.05	.	Q	.	.	.	V	.
33.917	993.1993	58.39	.	Q	.	.	.	V	.
34.000	993.5913	56.92	.	Q	.	.	.	V	.
34.083	993.9736	55.52	.	Q	.	.	.	V	.
34.167	994.3458	54.04	.	Q	.	.	.	V	.
34.250	994.7087	52.69	.	Q	.	.	.	V	.
34.333	995.0620	51.30	.	Q	.	.	.	V	.
34.417	995.4069	50.09	.	Q	.	.	.	V	.
34.500	995.7432	48.83	.	Q	.	.	.	V	.
34.583	996.0709	47.59	.	Q	.	.	.	V	.
34.667	996.3902	46.36	.	Q	.	.	.	V	.
34.750	996.7009	45.12	.	Q	.	.	.	V	.
34.833	997.0046	44.09	.	Q	.	.	.	V	.
34.917	997.3013	43.09	.	Q	.	.	.	V	.
35.000	997.5912	42.09	.	Q	.	.	.	V	.
35.083	997.8741	41.08	.	Q	.	.	.	V	.
35.167	998.1502	40.09	.	Q	.	.	.	V	.
35.250	998.4194	39.09	.	Q	.	.	.	V	.
35.333	998.6823	38.16	.	Q	.	.	.	V	.
35.417	998.9388	37.25	.	Q	.	.	.	V	.
35.500	999.1890	36.34	.	Q	.	.	.	V	.
35.583	999.4331	35.44	.	Q	.	.	.	V	.
35.667	999.6709	34.53	.	Q	.	.	.	V	.
35.750	999.9026	33.65	.	Q	.	.	.	V	.
35.833	1000.1282	32.75	.	Q	.	.	.	V	.
35.917	1000.3478	31.90	.	Q	.	.	.	V	.
36.000	1000.5619	31.08	.	Q	.	.	.	V	.

-----

TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:

(Note: 100% of Peak Flow Rate estimate assumed to have an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
0%	2165.0
10%	1630.0
20%	1350.0
30%	1060.0
40%	830.0
50%	695.0
60%	575.0
70%	465.0
80%	360.0
90%	250.0

=====

END OF FLOODSCx ROUTING ANALYSIS





\*\*\*\*\*

FLOOD ROUTING ANALYSIS
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)
(c) Copyright 1989-2013 Advanced Engineering Software (aes)
Ver. 20.0 Release Date: 06/01/2013 License ID 1237

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*
\* RMV PA-3 ROMP AMENDMENT 2022 - NODE 139 \*
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*
\* 2-YR EV OCT 2022 ROKAMOTO \*

FILE NAME: EVO2139S.DAT
TIME/DATE OF STUDY: 13:47 10/25/2022

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 139.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<

\*\*\*\*\*

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 69530.500 ACRES
BASEFLOW = 0.000 CFS/SQUARE-MILE
\*USER ENTERED "LAG" TIME = 6.549 HOURS
VALLEY (DEVELOPED) S-GRAPH SELECTED
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.564
LOW LOSS FRACTION = 0.898
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.15
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.29
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 0.40
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 0.73
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 1.06
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 1.86

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:
5-MINUTE FACTOR = 0.286
30-MINUTE FACTOR = 0.348
1-HOUR FACTOR = 0.391
3-HOUR FACTOR = 0.733
6-HOUR FACTOR = 0.885
24-HOUR FACTOR = 0.932

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 1.272

UNIT HYDROGRAPH DETERMINATION

Table with 3 columns: INTERVAL NUMBER, "S" GRAPH MEAN VALUES, UNIT HYDROGRAPH ORDINATES (CFS). Rows 1-48.

49	20.000	5865.588
50	20.824	6934.047
51	21.674	7143.159
52	22.625	8000.486
53	23.640	8532.277
54	24.472	6999.180
55	25.199	6113.850
56	25.927	6114.651
57	26.654	6113.850
58	27.381	6114.651
59	28.169	6628.095
60	29.169	8408.460
61	30.147	8226.951
62	31.004	7204.490
63	31.875	7323.063
64	33.051	9889.929
65	34.251	10091.197
66	35.277	8624.243
67	36.189	7670.332
68	36.875	5769.405
69	37.554	5708.073
70	38.549	8368.523
71	40.028	12433.410
72	41.144	9382.516
73	42.245	9261.521
74	43.439	10044.012
75	44.587	9651.131
76	45.694	9307.520
77	46.941	10488.474
78	48.313	11535.569
79	49.809	12575.352
80	50.844	8706.521
81	51.770	7782.088
82	52.695	7781.254
83	53.620	7778.849
84	54.500	7402.904
85	55.349	7131.884
86	56.242	7516.682
87	57.254	8508.861
88	58.306	8839.642
89	59.434	9484.971
90	60.726	10867.626
91	62.106	11606.557
92	63.207	9254.239
93	64.226	8566.953
94	65.115	7476.361
95	65.992	7376.280
96	66.830	7048.836
97	67.663	7000.399
98	68.619	8040.983
99	69.657	8729.938
100	70.501	7100.416
101	71.243	6235.615
102	71.996	6327.612
103	72.813	6871.320
104	73.642	6969.797
105	74.444	6751.929
106	75.227	6584.101

107	75.982	6343.779
108	76.573	4972.351
109	77.139	4754.610
110	77.704	4756.214
111	78.270	4756.214
112	78.835	4752.942
113	79.401	4759.422
114	79.969	4778.797
115	80.563	4994.997
116	81.162	5033.682
117	81.760	5030.474
118	82.322	4723.945
119	82.857	4501.265
120	83.393	4507.744
121	83.926	4475.475
122	84.421	4162.465
123	84.905	4075.408
124	85.390	4075.344
125	85.872	4055.969
126	86.291	3517.136
127	86.682	3291.313
128	87.073	3291.249
129	87.465	3294.457
130	87.855	3281.625
131	88.190	2813.683
132	88.489	2513.633
133	88.789	2520.049
134	89.088	2516.841
135	89.387	2516.905
136	89.687	2516.841
137	89.983	2494.259
138	90.255	2287.746
139	90.524	2255.476
140	90.791	2252.268
141	91.059	2252.268
142	91.327	2252.204
143	91.595	2252.268
144	91.863	2252.268
145	92.118	2148.980
146	92.360	2036.068
147	92.603	2036.068
148	92.845	2039.340
149	93.088	2045.755
150	93.330	2032.796
151	93.573	2039.340
152	93.814	2032.796
153	94.035	1858.617
154	94.200	1381.052
155	94.361	1355.197
156	94.524	1368.157
157	94.684	1348.782
158	94.847	1368.092
159	95.008	1355.262
160	95.169	1355.197
161	95.331	1361.677
162	95.493	1361.677
163	95.654	1355.262
164	95.815	1355.197

165	95.973	1329.407
166	96.086	948.651
167	96.186	838.947
168	96.285	832.532
169	96.385	845.427
170	96.485	838.947
171	96.585	838.947
172	96.684	832.467
173	96.785	845.427
174	96.884	838.947
175	96.984	838.947
176	97.084	838.947
177	97.184	838.947
178	97.283	838.947
179	97.384	845.427
180	97.483	832.467
181	97.583	838.947
182	97.682	838.947
183	97.783	845.427
184	97.882	832.467
185	97.979	813.157
186	98.020	348.487
187	98.043	193.618
188	98.068	206.513
189	98.091	193.554
190	98.115	206.513
191	98.139	200.098
192	98.163	200.033
193	98.187	200.033
194	98.210	200.098
195	98.235	206.513
196	98.258	193.618
197	98.283	206.513
198	98.306	193.554
199	98.330	206.513
200	98.353	193.618
201	98.378	206.513
202	98.402	200.033
203	98.425	193.618
204	98.450	212.993
205	98.473	193.618
206	98.497	200.033
207	98.521	206.513
208	98.544	187.138
209	98.569	212.993
210	98.592	193.554
211	98.617	212.993
212	98.640	193.618
213	98.663	193.554
214	98.688	206.513
215	98.711	193.618
216	98.737	219.408
217	98.758	180.723
218	98.783	206.513
219	98.808	206.513
220	98.831	193.618
221	98.855	206.513
222	98.878	193.554

223	98.903	206.513
224	98.926	193.618
225	98.950	206.513
226	98.975	206.513
227	98.998	193.618
228	99.021	193.618
229	99.044	193.618
230	99.067	193.618
231	99.090	193.618
232	99.113	193.618
233	99.136	193.618
234	99.159	193.618
235	99.182	193.618
236	99.205	193.618
237	99.228	193.618
238	99.251	193.618
239	99.274	193.618
240	99.297	193.618
241	99.320	193.618
242	99.343	193.618
243	99.366	193.618
244	99.389	193.618
245	99.412	193.618
246	99.435	193.618
247	99.458	193.618
248	99.481	193.618
249	99.504	193.618
250	99.527	193.618
251	99.550	193.618
252	99.573	193.618
253	99.597	193.618
254	99.620	193.618
255	99.643	193.618
256	99.666	193.618
257	99.689	193.618
258	99.712	193.618
259	99.735	193.618
260	99.758	193.618
261	99.781	193.618
262	99.804	193.618
263	99.827	193.618
264	99.850	193.618
265	99.873	193.618
266	99.896	193.618
267	99.919	193.618
268	99.942	193.618
269	99.965	193.618
270	99.988	193.618
271	100.000	101.300

-----  
TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 8997.5146  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 1021.4617  
-----

=====

2 4 - 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 FIVE-MINUTE UNIT INTERVALS(CFS)  
(Note: Time indicated is at END of Each Unit Intervals)

TIME(HRS)	VOLUME(AF)	Q(CFS)	0.	225.0	450.0	675.0	900.0
0.083	0.0011	0.16	Q	.	.	.	.
0.167	0.0045	0.50	Q	.	.	.	.
0.250	0.0102	0.83	Q	.	.	.	.
0.333	0.0182	1.16	Q	.	.	.	.
0.417	0.0285	1.49	Q	.	.	.	.
0.500	0.0411	1.83	Q	.	.	.	.
0.583	0.0560	2.16	Q	.	.	.	.
0.667	0.0732	2.50	Q	.	.	.	.
0.750	0.0927	2.83	Q	.	.	.	.
0.833	0.1145	3.17	Q	.	.	.	.
0.917	0.1387	3.51	Q	.	.	.	.
1.000	0.1653	3.85	Q	.	.	.	.
1.083	0.1942	4.19	Q	.	.	.	.
1.167	0.2254	4.54	Q	.	.	.	.
1.250	0.2599	5.01	Q	.	.	.	.
1.333	0.2980	5.53	Q	.	.	.	.
1.417	0.3396	6.04	Q	.	.	.	.
1.500	0.3848	6.57	Q	.	.	.	.
1.583	0.4336	7.09	Q	.	.	.	.
1.667	0.4861	7.61	Q	.	.	.	.
1.750	0.5421	8.14	Q	.	.	.	.
1.833	0.6018	8.66	Q	.	.	.	.
1.917	0.6651	9.20	Q	.	.	.	.
2.000	0.7341	10.02	Q	.	.	.	.
2.083	0.8097	10.98	Q	.	.	.	.
2.167	0.8919	11.93	Q	.	.	.	.
2.250	0.9807	12.89	Q	.	.	.	.
2.333	1.0762	13.87	Q	.	.	.	.
2.417	1.1799	15.06	Q	.	.	.	.
2.500	1.2923	16.32	Q	.	.	.	.
2.583	1.4134	17.58	Q	.	.	.	.
2.667	1.5436	18.91	Q	.	.	.	.
2.750	1.6846	20.47	Q	.	.	.	.
2.833	1.8366	22.08	Q	.	.	.	.
2.917	1.9996	23.67	VQ	.	.	.	.
3.000	2.1731	25.19	VQ	.	.	.	.
3.083	2.3571	26.71	VQ	.	.	.	.
3.167	2.5515	28.24	VQ	.	.	.	.
3.250	2.7566	29.77	VQ	.	.	.	.
3.333	2.9722	31.31	VQ	.	.	.	.
3.417	3.1987	32.90	VQ	.	.	.	.
3.500	3.4406	35.12	VQ	.	.	.	.
3.583	3.6987	37.48	VQ	.	.	.	.
3.667	3.9694	39.30	VQ	.	.	.	.
3.750	4.2515	40.96	VQ	.	.	.	.
3.833	4.5451	42.63	VQ	.	.	.	.
3.917	4.8502	44.31	VQ	.	.	.	.

4.000	5.1669	45.99	V	Q	.	.	.	.
4.083	5.4955	47.72	V	Q	.	.	.	.
4.167	5.8381	49.74	V	Q	.	.	.	.
4.250	6.1950	51.83	V	Q	.	.	.	.
4.333	6.5680	54.15	V	Q	.	.	.	.
4.417	6.9580	56.63	V	Q	.	.	.	.
4.500	7.3623	58.70	V	Q	.	.	.	.
4.583	7.7792	60.54	V	Q	.	.	.	.
4.667	8.2089	62.39	V	Q	.	.	.	.
4.750	8.6513	64.24	V	Q	.	.	.	.
4.833	9.1066	66.10	V	Q	.	.	.	.
4.917	9.5756	68.11	V	Q	.	.	.	.
5.000	10.0619	70.60	V	Q	.	.	.	.
5.083	10.5650	73.05	V	Q	.	.	.	.
5.167	11.0832	75.24	V	Q	.	.	.	.
5.250	11.6167	77.46	V	Q	.	.	.	.
5.333	12.1703	80.39	V	Q	.	.	.	.
5.417	12.7446	83.38	V	Q	.	.	.	.
5.500	13.3368	85.99	V	Q	.	.	.	.
5.583	13.9452	88.34	V	Q	.	.	.	.
5.667	14.5664	90.20	V	Q	.	.	.	.
5.750	15.2003	92.04	V	Q	.	.	.	.
5.833	15.8519	94.61	V	Q	.	.	.	.
5.917	16.5289	98.29	V	Q	.	.	.	.
6.000	17.2255	101.15	V	Q	.	.	.	.
6.083	17.9418	104.00	V	Q	.	.	.	.
6.167	18.6791	107.06	V	Q	.	.	.	.
6.250	19.4369	110.04	V	Q	.	.	.	.
6.333	20.2146	112.92	V	Q	.	.	.	.
6.417	21.0145	116.14	V	Q	.	.	.	.
6.500	21.8386	119.66	V	Q	.	.	.	.
6.583	22.6889	123.46	V	Q	.	.	.	.
6.667	23.5584	126.24	V	Q	.	.	.	.
6.750	24.4453	128.78	V	Q	.	.	.	.
6.833	25.3498	131.33	V	Q	.	.	.	.
6.917	26.2719	133.89	.V	Q	.	.	.	.
7.000	27.2110	136.36	.V	Q	.	.	.	.
7.083	28.1667	138.77	.V	Q	.	.	.	.
7.167	29.1398	141.29	.V	Q	.	.	.	.
7.250	30.1321	144.09	.V	Q	.	.	.	.
7.333	31.1444	146.99	.V	Q	.	.	.	.
7.417	32.1780	150.08	.V	Q	.	.	.	.
7.500	33.2355	153.55	.V	Q	.	.	.	.
7.583	34.3184	157.24	.V	Q	.	.	.	.
7.667	35.4224	160.30	.V	Q	.	.	.	.
7.750	36.5464	163.20	.V	Q	.	.	.	.
7.833	37.6883	165.81	.V	Q	.	.	.	.
7.917	38.8482	168.41	.V	Q	.	.	.	.
8.000	40.0254	170.93	.V	Q	.	.	.	.
8.083	41.2200	173.46	.V	Q	.	.	.	.
8.167	42.4340	176.27	.V	Q	.	.	.	.
8.250	43.6687	179.29	.V	Q	.	.	.	.
8.333	44.9213	181.87	.V	Q	.	.	.	.
8.417	46.1902	184.24	.V	Q	.	.	.	.
8.500	47.4756	186.65	.V	Q	.	.	.	.
8.583	48.7787	189.21	.V	Q	.	.	.	.
8.667	50.0998	191.82	.V	Q	.	.	.	.
8.750	51.4385	194.38	.V	Q	.	.	.	.

8.833	52.7945	196.90	. V	Q .	.	.	.
8.917	54.1677	199.38	. V	Q .	.	.	.
9.000	55.5554	201.50	. V	Q .	.	.	.
9.083	56.9575	203.58	. V	Q.	.	.	.
9.167	58.3739	205.66	. V	Q.	.	.	.
9.250	59.8048	207.77	. V	Q.	.	.	.
9.333	61.2502	209.88	. V	Q.	.	.	.
9.417	62.7103	212.01	. V	Q.	.	.	.
9.500	64.1852	214.15	. V	Q.	.	.	.
9.583	65.6753	216.37	. V	Q.	.	.	.
9.667	67.1810	218.62	. V	Q.	.	.	.
9.750	68.7022	220.88	. V	Q.	.	.	.
9.833	70.2384	223.07	. V	Q.	.	.	.
9.917	71.7895	225.21	. V	Q	.	.	.
10.000	73.3554	227.37	. V	Q	.	.	.
10.083	74.9363	229.54	. V	Q	.	.	.
10.167	76.5316	231.64	. V	Q	.	.	.
10.250	78.1414	233.74	. V	Q	.	.	.
10.333	79.7656	235.84	. V	Q	.	.	.
10.417	81.4045	237.96	. V	Q	.	.	.
10.500	83.0571	239.95	. V	Q	.	.	.
10.583	84.7231	241.90	. V	Q	.	.	.
10.667	86.4025	243.86	. V	Q	.	.	.
10.750	88.0956	245.84	. V	Q	.	.	.
10.833	89.8025	247.83	. V	.Q	.	.	.
10.917	91.5223	249.72	. V	.Q	.	.	.
11.000	93.2547	251.54	. V	.Q	.	.	.
11.083	94.9997	253.38	. V	.Q	.	.	.
11.167	96.7576	255.24	. V	.Q	.	.	.
11.250	98.5284	257.12	. V	.Q	.	.	.
11.333	100.3122	259.01	. V	.Q	.	.	.
11.417	102.1092	260.92	. V	.Q	.	.	.
11.500	103.9191	262.79	. V	.Q	.	.	.
11.583	105.7420	264.68	. V	.Q	.	.	.
11.667	107.5779	266.58	. V	.Q	.	.	.
11.750	109.4272	268.51	. V	.Q	.	.	.
11.833	111.2899	270.46	. V	.Q	.	.	.
11.917	113.1661	272.43	. V	.Q	.	.	.
12.000	115.0561	274.42	. V	.Q	.	.	.
12.083	116.9619	276.71	. V	.Q	.	.	.
12.167	118.8854	279.29	. V	.Q	.	.	.
12.250	120.8268	281.90	. V	.Q	.	.	.
12.333	122.7863	284.52	. V	.Q	.	.	.
12.417	124.7641	287.17	. V	.Q	.	.	.
12.500	126.7602	289.84	. V	.Q	.	.	.
12.583	128.7749	292.54	. V	.Q	.	.	.
12.667	130.8084	295.25	. V	.Q	.	.	.
12.750	132.8604	297.95	. V	.Q	.	.	.
12.833	134.9302	300.54	. V	.Q	.	.	.
12.917	137.0180	303.15	. V	.Q	.	.	.
13.000	139.1240	305.79	. V	.Q	.	.	.
13.083	141.2484	308.46	. V	.Q	.	.	.
13.167	143.3914	311.16	. V	.Q	.	.	.
13.250	145.5547	314.11	. V	.Q	.	.	.
13.333	147.7392	317.18	. V	.Q	.	.	.
13.417	149.9449	320.28	. V	.Q	.	.	.
13.500	152.1722	323.40	. V	.Q	.	.	.
13.583	154.4212	326.56	. V	.Q	.	.	.

13.667	156.6922	329.75	. V	. Q	.	.	.
13.750	158.9854	332.97	. V	. Q	.	.	.
13.833	161.3002	336.11	. V	. Q	.	.	.
13.917	163.6368	339.29	. V	. Q	.	.	.
14.000	165.9991	343.00	. V	. Q	.	.	.
14.083	168.3908	347.28	. V	. Q	.	.	.
14.167	170.8141	351.86	. V	. Q	.	.	.
14.250	173.2690	356.47	. V	. Q	.	.	.
14.333	175.7559	361.10	. V	. Q	.	.	.
14.417	178.2775	366.13	. V	. Q	.	.	.
14.500	180.8346	371.30	. V	. Q	.	.	.
14.583	183.4275	376.49	. V	. Q	.	.	.
14.667	186.0568	381.77	. V	. Q	.	.	.
14.750	188.7257	387.52	. V	. Q	.	.	.
14.833	191.4346	393.33	. V	. Q	.	.	.
14.917	194.1833	399.12	. V	. Q	.	.	.
15.000	196.9710	404.78	. V	. Q	.	.	.
15.083	199.7978	410.45	. V	. Q	.	.	.
15.167	202.6637	416.13	. V	. Q	.	.	.
15.250	205.5703	422.04	. V	. Q	.	.	.
15.333	208.5181	428.01	. V	. Q	.	.	.
15.417	211.5050	433.69	. V	. Q	.	.	.
15.500	214.5353	440.01	. V	. Q	.	.	.
15.583	217.6113	446.64	. V	. Q	.	.	.
15.667	220.7265	452.32	. V	. Q	.	.	.
15.750	223.8786	457.69	. V	. Q	.	.	.
15.833	227.0677	463.06	. V	. Q	.	.	.
15.917	230.2959	468.74	. V	. Q	.	.	.
16.000	233.5700	475.39	. V	. Q	.	.	.
16.083	236.9051	482.25	. V	. Q	.	.	.
16.167	240.3019	493.22	. V	. Q	.	.	.
16.250	243.7474	500.28	. V	. Q	.	.	.
16.333	247.2436	507.65	. V	. Q	.	.	.
16.417	250.7967	515.91	. V	. Q	.	.	.
16.500	254.4047	523.87	. V	. Q	.	.	.
16.583	258.0628	531.16	. V	. Q	.	.	.
16.667	261.7710	538.43	. V	. Q	.	.	.
16.750	265.5326	546.19	. V	. Q	.	.	.
16.833	269.3481	554.01	. V	. Q	.	.	.
16.917	273.2186	562.00	. V	. Q	.	.	.
17.000	277.1494	570.74	. V	. Q	.	.	.
17.083	281.1387	579.26	. V	. Q	.	.	.
17.167	285.1830	587.23	. V	. Q	.	.	.
17.250	289.2901	596.35	. V	. Q	.	.	.
17.333	293.4569	605.03	. V	. Q	.	.	.
17.417	297.6785	612.96	. V	. Q	.	.	.
17.500	301.9568	621.22	. V	. Q	.	.	.
17.583	306.2923	629.50	. V	. Q	.	.	.
17.667	310.6707	635.75	. V	. Q	.	.	.
17.750	315.0869	641.23	. V	. Q	.	.	.
17.833	319.5516	648.28	. V	. Q	.	.	.
17.917	324.0838	658.08	. V	. Q	.	.	.
18.000	328.6920	669.12	. V	. Q	.	.	.
18.083	333.3552	677.09	. V	. Q	.	.	.
18.167	338.0659	683.99	. V	. Q	.	.	.
18.250	342.8239	690.86	. V	. Q	.	.	.
18.333	347.6384	699.07	. V	. Q	.	.	.
18.417	352.5301	710.27	. V	. Q	.	.	.

18.500	357.4854	719.52	.	V	.	.Q	.
18.583	362.5017	728.36	.	V	.	.Q	.
18.667	367.5714	736.12	.	V	.	.Q	.
18.750	372.7056	745.49	.	V	.	.Q	.
18.833	377.8764	750.79	.	V	.	.Q	.
18.917	383.0789	755.42	.	V	.	.Q	.
19.000	388.3217	761.26	.	V	.	.Q	.
19.083	393.6136	768.37	.	V	.	.Q	.
19.167	398.9501	774.87	.	V	.	.Q	.
19.250	404.3343	781.78	.	V	.	.Q	.
19.333	409.7814	790.92	.	V	.	.Q	.
19.417	415.3009	801.43	.	V	.	.Q	.
19.500	420.9206	815.97	.	V	.	.Q	.
19.583	426.5887	823.01	.	V	.	.Q	.
19.667	432.2342	819.74	.	V	.	.Q	.
19.750	437.8851	820.51	.	V	.	.Q	.
19.833	443.5742	826.05	.	V	.	.Q	.
19.917	449.3236	834.81	.	V	.	.Q	.
20.000	455.1129	840.61	.	V	.	.Q	.
20.083	460.9425	846.46	.	V	.	.Q	.
20.167	466.8374	855.94	.	V	.	.Q	.
20.250	472.7786	862.67	.	V	.	.Q	.
20.333	478.7584	868.26	.	V	.	.Q	.
20.417	484.7585	871.22	.	V	.	.Q	.
20.500	490.7402	868.54	.	V	.	.Q	.
20.583	496.7231	868.72	.	V	.	.Q	.
20.667	502.7103	869.33	.	V	.	.Q	.
20.750	508.7023	870.05	.	V	.	.Q	.
20.833	514.7079	872.01	.	V	.	.Q	.
20.917	520.7404	875.92	.	V	.	.Q	.
21.000	526.8173	882.37	.	V	.	.Q	.
21.083	532.8898	881.72	.	V	.	.Q	.
21.167	538.9344	877.69	.	.V	.	.Q	.
21.250	544.9684	876.13	.	.V	.	.Q	.
21.333	551.0552	883.80	.	.V	.	.Q	.
21.417	557.1351	882.79	.	.V	.	.Q	.
21.500	563.1592	874.71	.	.V	.	.Q	.
21.583	569.1381	868.12	.	.V	.	.Q	.
21.667	575.0815	862.99	.	.V	.	.Q	.
21.750	581.0441	865.76	.	.V	.	.Q	.
21.833	587.0663	874.43	.	.V	.	.Q	.
21.917	593.1457	882.72	.	.V	.	.Q	.
22.000	599.1393	870.28	.	.V	.	.Q	.
22.083	605.1126	867.32	.	.V	.	.Q	.
22.167	611.0870	867.49	.	.V	.	.Q	.
22.250	617.0574	866.90	.	.V	.	.Q	.
22.333	623.0097	864.27	.	.V	.	.Q	.
22.417	628.9706	865.53	.	.V	.	.Q	.
22.500	634.9350	866.02	.	.V	.	.Q	.
22.583	640.8852	863.97	.	.V	.	.Q	.
22.667	646.7273	848.27	.	.V	.	.Q	.
22.750	652.5328	842.95	.	.V	.	.Q	.
22.833	658.3115	839.07	.	.V	.	.Q	.
22.917	664.0497	833.18	.	.V	.	.Q	.
23.000	669.7362	825.68	.	.V	.	.Q	.
23.083	675.3770	819.05	.	.V	.	.Q	.
23.167	680.9921	815.31	.	.V	.	.Q	.
23.250	686.5931	813.26	.	V	.	.Q	.

23.333	692.1624	808.66	.	.	.	V	.	Q	.
23.417	697.7017	804.31	.	.	.	V	.	Q	.
23.500	703.2142	800.43	.	.	.	V	.	Q	.
23.583	708.6733	792.65	.	.	.	V	.	Q	.
23.667	714.0413	779.44	.	.	.	V	.	Q	.
23.750	719.3639	772.84	.	.	.	V	.	Q	.
23.833	724.6293	764.55	.	.	.	V	.	Q	.
23.917	729.8477	757.70	.	.	.	V	.	Q	.
24.000	735.0228	751.43	.	.	.	V	.	Q	.
24.083	740.1650	746.65	.	.	.	V	.	Q	.
24.167	745.2822	743.02	.	.	.	V	.	Q	.
24.250	750.3546	736.51	.	.	.	V	.	Q	.
24.333	755.3387	723.70	.	.	.	V	.	Q	.
24.417	760.2496	713.07	.	.	.	V	.	Q	.
24.500	765.1029	704.70	.	.	.	V	.	Q	.
24.583	769.9027	696.93	.	.	.	Q	.	.	.
24.667	774.6528	689.71	.	.	.	Q	.	.	.
24.750	779.3456	681.40	.	.	.	Q	.	.	.
24.833	783.9802	672.93	.	.	.	QV	.	.	.
24.917	788.5510	663.69	.	.	.	QV	.	.	.
25.000	793.0402	651.82	.	.	.	Q	.	V	.
25.083	797.4753	643.98	.	.	.	Q	.	V	.
25.167	801.8582	636.40	.	.	.	Q	.	V	.
25.250	806.1835	628.03	.	.	.	Q	.	V	.
25.333	810.4491	619.37	.	.	.	Q	.	V	.
25.417	814.6552	610.73	.	.	.	Q	.	V	.
25.500	818.7986	601.61	.	.	.	Q	.	V	.
25.583	822.8785	592.40	.	.	.	Q	.	V	.
25.667	826.8970	583.48	.	.	.	Q	.	V	.
25.750	830.8544	574.61	.	.	.	Q	.	V	.
25.833	834.7498	565.62	.	.	.	Q	.	V	.
25.917	838.5883	557.35	.	.	.	Q	.	V	.
26.000	842.3777	550.22	.	.	.	Q	.	V	.
26.083	846.1163	542.84	.	.	.	Q	.	V	.
26.167	849.7947	534.11	.	.	.	Q	.	V	.
26.250	853.4175	526.03	.	.	.	Q	.	V	.
26.333	856.9920	519.01	.	.	.	Q	.	V	.
26.417	860.5173	511.87	.	.	.	Q	.	V	.
26.500	863.9812	502.96	.	.	.	Q	.	V	.
26.583	867.3893	494.85	.	.	.	Q	.	V	.
26.667	870.7458	487.38	.	.	.	Q	.	V	.
26.750	874.0488	479.59	.	.	.	Q	.	V	.
26.833	877.2945	471.28	.	.	.	Q	.	V	.
26.917	880.4747	461.76	.	.	.	Q	.	V	.
27.000	883.5994	453.71	.	.	.	Q	.	V	.
27.083	886.6766	446.81	.	.	.	Q	.	V	.
27.167	889.7079	440.15	.	.	.	Q	.	V	.
27.250	892.6921	433.30	.	.	.	Q	.	V	.
27.333	895.6274	426.20	.	.	.	Q	.	V	.
27.417	898.5128	418.96	.	.	.	Q	.	V	.
27.500	901.3412	410.70	.	.	.	Q	.	V	.
27.583	904.1155	402.82	.	.	.	Q	.	V	.
27.667	906.8401	395.61	.	.	.	Q	.	V	.
27.750	909.5164	388.60	.	.	.	Q	.	V	.
27.833	912.1439	381.51	.	.	.	Q	.	V	.
27.917	914.7241	374.64	.	.	.	Q	.	V	.
28.000	917.2577	367.88	.	.	.	Q	.	V	.
28.083	919.7435	360.94	.	.	.	Q	.	V	.

28.167	922.1832	354.25	.	.	Q	.	.	V	.
28.250	924.5797	347.96	.	.	Q	.	.	V	.
28.333	926.9313	341.45	.	.	Q	.	.	V	.
28.417	929.2374	334.84	.	.	Q	.	.	V	.
28.500	931.5029	328.95	.	.	Q	.	.	V	.
28.583	933.7303	323.43	.	.	Q	.	.	V	.
28.667	935.9181	317.66	.	.	Q	.	.	V	.
28.750	938.0620	311.29	.	.	Q	.	.	V	.
28.833	940.1573	304.25	.	.	Q	.	.	V	.
28.917	942.2155	298.85	.	.	Q	.	.	V	.
29.000	944.2356	293.32	.	.	Q	.	.	V	.
29.083	946.2178	287.81	.	.	Q	.	.	V	.
29.167	948.1650	282.74	.	.	Q	.	.	V	.
29.250	950.0770	277.61	.	.	Q	.	.	V	.
29.333	951.9489	271.81	.	.	Q	.	.	V	.
29.417	953.7805	265.95	.	.	Q	.	.	V	.
29.500	955.5740	260.42	.	.	Q	.	.	V	.
29.583	957.3307	255.06	.	.	Q	.	.	V	.
29.667	959.0533	250.12	.	.	Q	.	.	V	.
29.750	960.7407	245.02	.	.	Q	.	.	V	.
29.833	962.3833	238.50	.	.	Q	.	.	V	.
29.917	963.9804	231.90	.	.	Q	.	.	V	.
30.000	965.5406	226.55	.	.	Q	.	.	V	.
30.083	967.0655	221.40	.	.	Q	.	.	V	.
30.167	968.5523	215.89	.	.	Q	.	.	V	.
30.250	970.0018	210.48	.	.	Q	.	.	V	.
30.333	971.4147	205.16	.	.	Q	.	.	V	.
30.417	972.7895	199.61	.	.	Q	.	.	V	.
30.500	974.1238	193.75	.	.	Q	.	.	V	.
30.583	975.4163	187.66	.	.	Q	.	.	V	.
30.667	976.6742	182.66	.	.	Q	.	.	V	.
30.750	977.9005	178.06	.	.	Q	.	.	V	.
30.833	979.1002	174.19	.	.	Q	.	.	V	.
30.917	980.2746	170.52	.	.	Q	.	.	V	.
31.000	981.4240	166.89	.	.	Q	.	.	V	.
31.083	982.5493	163.40	.	.	Q	.	.	V	.
31.167	983.6501	159.85	.	.	Q	.	.	V	.
31.250	984.7250	156.07	.	.	Q	.	.	V	.
31.333	985.7717	151.98	.	.	Q	.	.	V	.
31.417	986.7875	147.50	.	.	Q	.	.	V	.
31.500	987.7616	141.43	.	.	Q	.	.	V	.
31.583	988.7006	136.33	.	.	Q	.	.	V	.
31.667	989.6128	132.46	.	.	Q	.	.	V	.
31.750	990.4997	128.78	.	.	Q	.	.	V	.
31.833	991.3636	125.45	.	.	Q	.	.	V	.
31.917	992.2041	122.03	.	.	Q	.	.	V	.
32.000	993.0221	118.77	.	.	Q	.	.	V	.
32.083	993.8174	115.48	.	.	Q	.	.	V	.
32.167	994.5883	111.94	.	.	Q	.	.	V	.
32.250	995.3338	108.24	.	.	Q	.	.	V	.
32.333	996.0565	104.93	.	.	Q	.	.	V	.
32.417	996.7585	101.94	.	.	Q	.	.	V	.
32.500	997.4410	99.09	.	.	Q	.	.	V	.
32.583	998.1039	96.26	.	.	Q	.	.	V	.
32.667	998.7469	93.35	.	.	Q	.	.	V	.
32.750	999.3709	90.61	.	.	Q	.	.	V	.
32.833	999.9761	87.88	.	.	Q	.	.	V	.
32.917	1000.5631	85.23	.	.	Q	.	.	V	.

33.000	1001.1351	83.06	.	Q	.	.	.	V	.
33.083	1001.6920	80.85	.	Q	.	.	.	V	.
33.167	1002.2342	78.73	.	Q	.	.	.	V	.
33.250	1002.7618	76.62	.	Q	.	.	.	V	.
33.333	1003.2747	74.47	.	Q	.	.	.	V	.
33.417	1003.7738	72.48	.	Q	.	.	.	V	.
33.500	1004.2599	70.58	.	Q	.	.	.	V	.
33.583	1004.7339	68.83	.	Q	.	.	.	V	.
33.667	1005.1951	66.97	.	Q	.	.	.	V	.
33.750	1005.6442	65.20	.	Q	.	.	.	V	.
33.833	1006.0819	63.56	.	Q	.	.	.	V	.
33.917	1006.5084	61.93	.	Q	.	.	.	V	.
34.000	1006.9244	60.40	.	Q	.	.	.	V	.
34.083	1007.3289	58.72	.	Q	.	.	.	V	.
34.167	1007.7237	57.33	.	Q	.	.	.	V	.
34.250	1008.1086	55.88	.	Q	.	.	.	V	.
34.333	1008.4836	54.45	.	Q	.	.	.	V	.
34.417	1008.8491	53.07	.	Q	.	.	.	V	.
34.500	1009.2057	51.79	.	Q	.	.	.	V	.
34.583	1009.5543	50.61	.	Q	.	.	.	V	.
34.667	1009.8939	49.31	.	Q	.	.	.	V	.
34.750	1010.2252	48.10	.	Q	.	.	.	V	.
34.833	1010.5478	46.84	.	Q	.	.	.	V	.
34.917	1010.8625	45.70	.	Q	.	.	.	V	.
35.000	1011.1702	44.67	.	Q	.	.	.	V	.
35.083	1011.4709	43.67	.	Q	.	.	.	V	.
35.167	1011.7647	42.66	.	Q	.	.	.	V	.
35.250	1012.0516	41.65	.	Q	.	.	.	V	.
35.333	1012.3316	40.66	.	Q	.	.	.	V	.
35.417	1012.6048	39.67	.	Q	.	.	.	V	.
35.500	1012.8716	38.75	.	Q	.	.	.	V	.
35.583	1013.1321	37.83	.	Q	.	.	.	V	.
35.667	1013.3865	36.93	.	Q	.	.	.	V	.
35.750	1013.6346	36.03	.	Q	.	.	.	V	.
35.833	1013.8765	35.12	.	Q	.	.	.	V	.
35.917	1014.1122	34.24	.	Q	.	.	.	V	.
36.000	1014.3419	33.34	.	Q	.	.	.	V	.

-----

TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
(Note: 100% of Peak Flow Rate estimate assumed to have  
an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
0%	2165.0
10%	1630.0
20%	1355.0
30%	1070.0
40%	840.0
50%	695.0
60%	580.0
70%	475.0
80%	365.0
90%	250.0

=====

END OF FLOODSCx ROUTING ANALYSIS





\*\*\*\*\*

FLOOD ROUTING ANALYSIS
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)
(c) Copyright 1989-2013 Advanced Engineering Software (aes)
Ver. 20.0 Release Date: 06/01/2013 License ID 1237

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*
\* RMV PA-3 BODR 2022 - NODE 133C \*
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*
\* 25-YR EV JULY 2022 ROKAMOTO \*

FILE NAME: EV2533CS.DAT
TIME/DATE OF STUDY: 14:05 07/24/2022

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 133.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<

\*\*\*\*\*

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 61055.801 ACRES
BASEFLOW = 0.000 CFS/SQUARE-MILE
\*USER ENTERED "LAG" TIME = 2.477 HOURS
VALLEY (DEVELOPED) S-GRAPH SELECTED
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.285
LOW LOSS FRACTION = 0.448
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.40
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.77
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 1.05
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 1.94
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 2.85
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 4.99

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:
5-MINUTE FACTOR = 0.308
30-MINUTE FACTOR = 0.363
1-HOUR FACTOR = 0.408
3-HOUR FACTOR = 0.754
6-HOUR FACTOR = 0.891
24-HOUR FACTOR = 0.936

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 3.364

UNIT HYDROGRAPH DETERMINATION

Table with 3 columns: INTERVAL NUMBER, "S" GRAPH MEAN VALUES, UNIT HYDROGRAPH ORDINATES (CFS). Rows 1-48.

49	87.359	7674.342
50	88.300	6945.537
51	89.093	5858.892
52	89.880	5805.261
53	90.605	5358.412
54	91.314	5229.799
55	92.012	5160.169
56	92.661	4785.035
57	93.301	4732.531
58	93.924	4599.637
59	94.389	3427.250
60	94.816	3155.039
61	95.243	3157.180
62	95.670	3152.842
63	96.054	2835.677
64	96.324	1991.215
65	96.588	1950.429
66	96.852	1946.147
67	97.116	1950.485
68	97.380	1948.288
69	97.644	1948.344
70	97.905	1931.162
71	98.041	1003.100
72	98.104	465.101
73	98.168	469.383
74	98.230	460.820
75	98.293	467.242
76	98.357	467.298
77	98.419	460.820
78	98.483	469.383
79	98.546	467.242
80	98.609	465.101
81	98.672	465.101
82	98.735	465.158
83	98.798	467.242
84	98.861	467.242
85	98.924	462.961
86	98.987	467.242
87	99.051	467.242
88	99.114	467.242
89	99.177	467.242
90	99.240	467.242
91	99.304	467.242
92	99.367	467.242
93	99.430	467.242
94	99.494	467.242
95	99.557	467.242
96	99.620	467.242
97	99.683	467.242
98	99.747	467.242
99	99.810	467.242
100	99.873	467.242
101	99.936	467.242
102	100.000	467.242
103	100.000	1.803

TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 10495.4131  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 13285.8018

2 4 - 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 FIVE-MINUTE UNIT INTERVALS (CFS)

(Note: Time indicated is at END of Each Unit Intervals)

TIME (HRS)	VOLUME (AF)	Q (CFS)	0.	4025.0	8050.0	12075.0	16100.0
0.083	0.0386	5.60	Q	.	.	.	.
0.167	0.1544	16.82	Q	.	.	.	.
0.250	0.3478	28.07	Q	.	.	.	.
0.333	0.6188	39.35	Q	.	.	.	.
0.417	0.9678	50.67	Q	.	.	.	.
0.500	1.4078	63.89	Q	.	.	.	.
0.583	1.9656	81.00	Q	.	.	.	.
0.667	2.6425	98.29	Q	.	.	.	.
0.750	3.4460	116.66	Q	.	.	.	.
0.833	4.4489	145.62	Q	.	.	.	.
0.917	5.6801	178.77	Q	.	.	.	.
1.000	7.1919	219.51	Q	.	.	.	.
1.083	9.0382	268.09	Q	.	.	.	.
1.167	11.2389	319.54	Q	.	.	.	.
1.250	13.7837	369.50	Q	.	.	.	.
1.333	16.7123	425.23	VQ	.	.	.	.
1.417	20.1061	492.77	VQ	.	.	.	.
1.500	23.8714	546.73	VQ	.	.	.	.
1.583	28.0269	603.38	VQ	.	.	.	.
1.667	32.6649	673.43	VQ	.	.	.	.
1.750	37.7754	742.05	VQ	.	.	.	.
1.833	43.2871	800.30	VQ	.	.	.	.
1.917	49.2665	868.21	V Q	.	.	.	.
2.000	55.7533	941.88	V Q	.	.	.	.
2.083	62.8460	1029.86	V Q	.	.	.	.
2.167	70.4237	1100.29	V Q	.	.	.	.
2.250	78.5359	1177.88	V Q	.	.	.	.
2.333	87.3034	1273.04	V Q	.	.	.	.
2.417	96.7095	1365.78	V Q	.	.	.	.
2.500	106.8415	1471.17	V Q	.	.	.	.
2.583	117.5804	1559.28	V Q	.	.	.	.
2.667	128.8349	1634.16	V Q	.	.	.	.
2.750	140.6025	1708.65	V Q	.	.	.	.
2.833	152.9841	1797.81	V Q	.	.	.	.
2.917	166.0703	1900.11	V Q	.	.	.	.
3.000	179.7082	1980.23	V Q	.	.	.	.
3.083	193.8447	2052.62	V Q	.	.	.	.
3.167	208.5242	2131.46	V Q	.	.	.	.
3.250	223.6635	2198.23	V Q	.	.	.	.
3.333	239.2812	2267.69	V Q	.	.	.	.
3.417	255.3350	2331.01	V Q	.	.	.	.
3.500	271.7445	2382.66	V Q	.	.	.	.
3.583	288.5067	2433.88	V Q	.	.	.	.
3.667	305.6327	2486.68	V Q	.	.	.	.
3.750	323.1214	2539.37	V Q	.	.	.	.
3.833	340.9501	2588.72	.V Q	.	.	.	.
3.917	359.0994	2635.28	.V Q	.	.	.	.

4.000	377.5490	2678.89	.V Q	.	.	.	.
4.083	396.2680	2717.99	.V Q	.	.	.	.
4.167	415.2375	2754.38	.V Q	.	.	.	.
4.250	434.4294	2786.66	.V Q	.	.	.	.
4.333	453.8431	2818.87	.V Q	.	.	.	.
4.417	473.4677	2849.48	.V Q	.	.	.	.
4.500	493.3005	2879.73	.V Q	.	.	.	.
4.583	513.3409	2909.86	.V Q	.	.	.	.
4.667	533.5795	2938.65	.V Q	.	.	.	.
4.750	554.0162	2967.40	.V Q	.	.	.	.
4.833	574.6483	2995.77	.V Q	.	.	.	.
4.917	595.4449	3019.68	.V Q	.	.	.	.
5.000	616.3997	3042.64	.V Q	.	.	.	.
5.083	637.5137	3065.76	.V Q	.	.	.	.
5.167	658.7878	3088.99	.V Q	.	.	.	.
5.250	680.2143	3111.13	. V Q	.	.	.	.
5.333	701.7712	3130.07	. V Q	.	.	.	.
5.417	723.4585	3148.99	. V Q	.	.	.	.
5.500	745.2768	3168.02	. V Q	.	.	.	.
5.583	767.2273	3187.21	. V Q	.	.	.	.
5.667	789.3108	3206.53	. V Q	.	.	.	.
5.750	811.5284	3226.00	. V Q	.	.	.	.
5.833	833.8806	3245.53	. V Q	.	.	.	.
5.917	856.3431	3261.56	. V Q	.	.	.	.
6.000	878.9023	3275.60	. V Q	.	.	.	.
6.083	901.5594	3289.80	. V Q	.	.	.	.
6.167	924.3148	3304.09	. V Q	.	.	.	.
6.250	947.1699	3318.56	. V Q	.	.	.	.
6.333	970.1255	3333.16	. V Q	.	.	.	.
6.417	993.1826	3347.88	. V Q	.	.	.	.
6.500	1016.3423	3362.78	. V Q	.	.	.	.
6.583	1039.6056	3377.83	. V Q	.	.	.	.
6.667	1062.9734	3393.01	. V Q	.	.	.	.
6.750	1086.4470	3408.36	. V Q	.	.	.	.
6.833	1110.0273	3423.86	. V Q	.	.	.	.
6.917	1133.7156	3439.53	. V Q	.	.	.	.
7.000	1157.5128	3455.35	. V Q	.	.	.	.
7.083	1181.4202	3471.35	. V Q	.	.	.	.
7.167	1205.4388	3487.51	. V Q	.	.	.	.
7.250	1229.5701	3503.86	. V Q	.	.	.	.
7.333	1253.8151	3520.37	. V Q	.	.	.	.
7.417	1278.1750	3537.08	. V Q	.	.	.	.
7.500	1302.6512	3553.95	. V Q	.	.	.	.
7.583	1327.2451	3571.03	. V Q	.	.	.	.
7.667	1351.9578	3588.28	. V Q	.	.	.	.
7.750	1376.7906	3605.74	. V Q	.	.	.	.
7.833	1401.7451	3623.38	. V Q	.	.	.	.
7.917	1426.8226	3641.25	. V Q	.	.	.	.
8.000	1452.0244	3659.30	. V Q	.	.	.	.
8.083	1477.3522	3677.58	. V Q	.	.	.	.
8.167	1502.8071	3696.06	. V Q	.	.	.	.
8.250	1528.3910	3714.78	. V Q	.	.	.	.
8.333	1554.1052	3733.70	. V Q	.	.	.	.
8.417	1579.9514	3752.87	. V Q	.	.	.	.
8.500	1605.9312	3772.26	. V Q	.	.	.	.
8.583	1632.0336	3790.07	. V Q	.	.	.	.
8.667	1658.2601	3808.09	. V Q	.	.	.	.
8.750	1684.6125	3826.38	. V Q	.	.	.	.

8.833	1711.0925	3844.89	.	V	Q.	.	.	.
8.917	1737.7019	3863.69	.	V	Q.	.	.	.
9.000	1764.4424	3882.72	.	V	Q.	.	.	.
9.083	1791.3159	3902.04	.	V	Q.	.	.	.
9.167	1818.3243	3921.62	.	V	Q.	.	.	.
9.250	1845.4696	3941.50	.	V	Q.	.	.	.
9.333	1872.7537	3961.64	.	V	Q.	.	.	.
9.417	1900.1786	3982.11	.	V	Q.	.	.	.
9.500	1927.7465	4002.85	.	V	Q.	.	.	.
9.583	1955.4595	4023.92	.	V	Q.	.	.	.
9.667	1983.3196	4045.29	.	V	Q.	.	.	.
9.750	2011.3293	4067.01	.	V	Q.	.	.	.
9.833	2039.4907	4089.04	.	V	Q.	.	.	.
9.917	2067.8064	4111.43	.	V	Q.	.	.	.
10.000	2096.2786	4134.15	.	V	Q.	.	.	.
10.083	2124.9099	4157.26	.	V	Q.	.	.	.
10.167	2153.7026	4180.71	.	V	Q.	.	.	.
10.250	2182.6597	4204.57	.	V	Q.	.	.	.
10.333	2211.7837	4228.80	.	V	Q.	.	.	.
10.417	2241.0774	4253.45	.	V	Q.	.	.	.
10.500	2270.5435	4278.49	.	V	Q.	.	.	.
10.583	2300.1853	4303.98	.	V	Q.	.	.	.
10.667	2330.0054	4329.88	.	V	Q.	.	.	.
10.750	2360.0071	4356.26	.	V	Q.	.	.	.
10.833	2390.1936	4383.07	.	V	Q.	.	.	.
10.917	2420.5684	4410.40	.	V	Q.	.	.	.
11.000	2451.1343	4438.18	.	V	.Q	.	.	.
11.083	2481.8953	4466.50	.	V	.Q	.	.	.
11.167	2512.8547	4495.30	.	V	.Q	.	.	.
11.250	2544.0166	4524.69	.	V	.Q	.	.	.
11.333	2575.3843	4554.59	.	V	.Q	.	.	.
11.417	2606.9622	4585.10	.	V	.Q	.	.	.
11.500	2638.7539	4616.17	.	V	.Q	.	.	.
11.583	2670.7642	4647.89	.	V	.Q	.	.	.
11.667	2702.9971	4680.20	.	V	.Q	.	.	.
11.750	2735.4573	4713.21	.	V	.Q	.	.	.
11.833	2768.1492	4746.85	.	V	.Q	.	.	.
11.917	2801.0779	4781.24	.	V	.Q	.	.	.
12.000	2834.2480	4816.31	.	V	.Q	.	.	.
12.083	2867.7334	4862.08	.	V	.Q	.	.	.
12.167	2901.6069	4918.44	.	V	.Q	.	.	.
12.250	2935.8738	4975.56	.	V	.Q	.	.	.
12.333	2970.5388	5033.35	.	V	.Q	.	.	.
12.417	3005.6074	5091.96	.	V	.Q	.	.	.
12.500	3041.1074	5154.59	.	V	.Q	.	.	.
12.583	3077.0918	5224.92	.	V	.Q	.	.	.
12.667	3113.5669	5296.19	.	V	.Q	.	.	.
12.750	3150.5515	5370.18	.	V	.Q	.	.	.
12.833	3188.1794	5463.57	.	V	.Q	.	.	.
12.917	3226.5066	5565.10	.	V	.Q	.	.	.
13.000	3265.6289	5680.56	.	V	.Q	.	.	.
13.083	3305.6462	5810.51	.	V	.Q	.	.	.
13.167	3346.5959	5945.91	.	V	.Q	.	.	.
13.250	3388.4639	6079.22	.	V	.Q	.	.	.
13.333	3431.3228	6223.10	.	V	.Q	.	.	.
13.417	3475.3201	6388.42	.	V	.Q	.	.	.
13.500	3520.2922	6529.96	.	V	.Q	.	.	.
13.583	3566.2759	6676.83	.	V	.Q	.	.	.

13.667	3613.4375	6847.87	.	V	Q.	.	.	.
13.750	3661.7629	7016.84	.	.V	Q.	.	.	.
13.833	3711.1282	7167.84	.	.V	Q.	.	.	.
13.917	3761.6555	7336.58	.	.V	Q.	.	.	.
14.000	3813.4187	7516.02	.	.V	Q.	.	.	.
14.083	3866.6633	7731.11	.	.V	Q.	.	.	.
14.167	3921.2441	7925.15	.	.V	Q.	.	.	.
14.250	3977.2466	8131.56	.	.V	Q.	.	.	.
14.333	4034.8838	8368.92	.	.V	Q.	.	.	.
14.417	4094.1226	8601.48	.	.V	.Q	.	.	.
14.500	4155.1372	8859.29	.	.V	.Q	.	.	.
14.583	4217.7593	9092.74	.	.V	.Q	.	.	.
14.667	4281.8242	9302.25	.	.V	.Q	.	.	.
14.750	4347.3359	9512.33	.	.V	.Q	.	.	.
14.833	4414.5967	9766.26	.	.V	.Q	.	.	.
14.917	4483.8071	10049.37	.	.V	.Q	.	.	.
15.000	4554.7734	10304.29	.	.V	.Q	.	.	.
15.083	4627.4800	10557.02	.	.V	.Q	.	.	.
15.167	4702.0190	10823.10	.	.V	.Q	.	.	.
15.250	4778.2031	11061.96	.	.V	.Q	.	.	.
15.333	4856.1104	11312.12	.	.V	.Q	.	.	.
15.417	4935.6943	11555.57	.	.V	.Q	.	.	.
15.500	5016.5298	11737.31	.	.V	.Q	.	.	.
15.583	5098.6377	11922.10	.	.V	.Q	.	.	.
15.667	5182.1963	12132.68	.	.V	.Q	.	.	.
15.750	5267.1372	12333.45	.	.V	.Q	.	.	.
15.833	5353.2212	12499.38	.	.V	.Q	.	.	.
15.917	5440.5088	12674.13	.	.V	.Q	.	.	.
16.000	5529.1245	12866.97	.	.V	.Q	.	.	.
16.083	5619.9414	13186.61	.	.V	.Q	.	.	.
16.167	5712.4102	13426.44	.	.V	.Q	.	.	.
16.250	5805.6353	13536.31	.	.V	.Q	.	.	.
16.333	5899.7173	13660.68	.	.V	.Q	.	.	.
16.417	5994.5796	13774.04	.	.V	.Q	.	.	.
16.500	6090.6558	13950.23	.	.V	.Q	.	.	.
16.583	6188.0029	14134.83	.	.V	.Q	.	.	.
16.667	6285.8745	14210.96	.	.V	.Q	.	.	.
16.750	6384.3091	14292.68	.	.V	.Q	.	.	.
16.833	6485.0742	14631.07	.	.V	.Q	.	.	.
16.917	6587.4346	14862.71	.	.V	.Q	.	.	.
17.000	6691.3149	15083.41	.	.V	.Q	.	.	.
17.083	6796.4170	15260.79	.	.V	.Q	.	.	.
17.167	6902.4292	15392.95	.	.V	.Q	.	.	.
17.250	7008.5576	15409.88	.	.V	.Q	.	.	.
17.333	7115.6958	15556.48	.	.V	.Q	.	.	.
17.417	7224.2607	15763.60	.	.V	.Q	.	.	.
17.500	7331.1382	15518.63	.	.V	.Q	.	.	.
17.583	7438.5806	15600.62	.	.V	.Q	.	.	.
17.667	7547.5991	15829.50	.	.V	.Q	.	.	.
17.750	7656.2188	15771.58	.	.V	.Q	.	.	.
17.833	7763.0518	15512.13	.	.V	.Q	.	.	.
17.917	7871.1919	15701.96	.	.V	.Q	.	.	.
18.000	7980.1768	15824.63	.	.V	.Q	.	.	.
18.083	8090.7285	16052.10	.	.V	.Q	.	.	.
18.167	8198.0010	15575.91	.	.V	.Q	.	.	.
18.250	8305.6719	15633.77	.	.V	.Q	.	.	.
18.333	8415.4746	15943.42	.	.V	.Q	.	.	.
18.417	8524.7031	15860.01	.	.V	.Q	.	.	.

18.500	8634.7217	15974.76	.	.	.	V	.	Q.
18.583	8741.3418	15481.31	.	.	.	V	.	Q.
18.667	8845.7012	15153.03	.	.	.	V	.	Q.
18.750	8949.9873	15142.28	.	.	.	V	.	Q.
18.833	9056.5020	15465.98	.	.	.	V	.	Q.
18.917	9164.1221	15626.49	.	.	.	V	.	Q.
19.000	9267.5010	15010.69	.	.	.	V	.	Q.
19.083	9368.5420	14671.22	.	.	.	V	.	Q.
19.167	9469.5537	14666.89	.	.	.	V	.	Q.
19.250	9568.1768	14320.10	.	.	.	V	.	Q.
19.333	9665.7891	14173.32	.	.	.	V	.	Q.
19.417	9760.8359	13800.74	.	.	.	V	.	Q.
19.500	9852.8730	13363.72	.	.	.	V	.	Q.
19.583	9943.6025	13173.96	.	.	.	V	.	Q.
19.667	10033.2939	13023.18	.	.	.	V	.	Q.
19.750	10121.6211	12825.17	.	.	.	V	.	Q.
19.833	10207.8672	12522.91	.	.	.	V	.	Q.
19.917	10291.7188	12175.27	.	.	.	V	.	Q.
20.000	10373.2988	11845.47	.	.	.	V	.	Q.
20.083	10452.3076	11472.05	.	.	.	V	.	Q.
20.167	10529.0947	11149.55	.	.	.	V	.	Q.
20.250	10603.5928	10817.14	.	.	.	V	.	Q.
20.333	10676.1152	10530.22	.	.	.	V	.	Q.
20.417	10746.4727	10215.90	.	.	.	V	.	Q.
20.500	10814.7900	9919.67	.	.	.	V	.	Q.
20.583	10881.2559	9650.80	.	.	.	V	.	Q.
20.667	10945.8975	9385.96	.	.	.	V	.	Q.
20.750	11008.8320	9138.07	.	.	.	V	.	Q.
20.833	11069.8027	8853.00	.	.	.	V	.	Q.
20.917	11128.1455	8471.36	.	.	.	V	.	Q.
21.000	11184.7002	8211.81	.	.	.	V	.	Q.
21.083	11239.7607	7994.86	.	.	.	V	.	Q.
21.167	11293.2529	7767.02	.	.	.	V	.	Q.
21.250	11345.1787	7539.67	.	.	.	V	.	Q.
21.333	11395.2773	7274.37	.	.	.	V	.	Q.
21.417	11444.1123	7090.89	.	.	.	V	.	Q.
21.500	11491.8574	6932.59	.	.	.	V	.	Q.
21.583	11538.5410	6778.45	.	.	.	V	.	Q.
21.667	11584.1162	6617.49	.	.	.	V	.	Q.
21.750	11628.5508	6451.92	.	.	.	V	.	Q.
21.833	11671.8271	6283.73	.	.	.	V	.	Q.
21.917	11713.5488	6058.04	.	.	.	V	.	Q.
22.000	11754.0381	5879.06	.	.	.	V	.	Q.
22.083	11793.6748	5755.31	.	.	.	V	.	Q.
22.167	11832.5078	5638.58	.	.	.	V	.	Q.
22.250	11870.5732	5527.13	.	.	.	V	.	Q.
22.333	11907.8848	5417.69	.	.	.	V	.	Q.
22.417	11944.4697	5312.15	.	.	.	V	.	Q.
22.500	11980.3477	5209.51	.	.	.	V	.	Q.
22.583	12015.5000	5104.09	.	.	.	V	.	Q.
22.667	12049.9512	5002.29	.	.	.	V	.	Q.
22.750	12083.7109	4901.96	.	.	.	V	.	Q.
22.833	12116.7939	4803.65	.	.	.	V	.	Q.
22.917	12149.3086	4721.16	.	.	.	V	.	Q.
23.000	12181.3027	4645.57	.	.	.	V	.	Q.
23.083	12212.7852	4571.26	.	.	.	V	.	Q.
23.167	12243.7715	4499.20	.	.	.	V	.	Q.
23.250	12274.2842	4430.41	.	.	.	V	.	Q.

23.333	12304.3730	4368.87	.	.	.	Q	.	V.
23.417	12334.0498	4309.00	.	.	.	Q	.	V.
23.500	12363.3223	4250.39	.	.	.	Q	.	V.
23.583	12392.2002	4193.02	.	.	.	Q	.	V.
23.667	12420.6904	4136.82	.	.	.	Q	.	V.
23.750	12448.8018	4081.79	.	.	.	Q	.	V.
23.833	12476.5420	4027.92	.	.	.	Q	.	V.
23.917	12503.9932	3985.94	.	.	.	Q.	.	V.
24.000	12531.1865	3948.47	.	.	.	Q.	.	V.
24.083	12558.0859	3905.83	.	.	.	Q.	.	V.
24.167	12584.6572	3858.21	.	.	.	Q.	.	V.
24.250	12610.9160	3812.71	.	.	.	Q.	.	V.
24.333	12636.8623	3767.39	.	.	.	Q.	.	V.
24.417	12662.4854	3720.52	.	.	.	Q.	.	V.
24.500	12687.7578	3669.53	.	.	.	Q.	.	V.
24.583	12712.4170	3580.53	.	.	.	Q.	.	V.
24.667	12736.7383	3531.42	.	.	.	Q.	.	V.
24.750	12760.7197	3482.13	.	.	.	Q.	.	V.
24.833	12784.3008	3423.97	.	.	.	Q.	.	V.
24.917	12807.4307	3358.48	.	.	.	Q.	.	V.
25.000	12830.0615	3285.97	.	.	.	Q.	.	V.
25.083	12852.1436	3206.34	.	.	.	Q.	.	V.
25.167	12873.6621	3124.53	.	.	.	Q.	.	V.
25.250	12894.6328	3044.97	.	.	.	Q.	.	V.
25.333	12915.0215	2960.40	.	.	.	Q.	.	V.
25.417	12934.7520	2864.82	.	.	.	Q.	.	V.
25.500	12953.9229	2783.67	.	.	.	Q.	.	V.
25.583	12972.5449	2703.90	.	.	.	Q.	.	V.
25.667	12990.5322	2611.74	.	.	.	Q.	.	V.
25.750	13007.9023	2522.10	.	.	.	Q.	.	V.
25.833	13024.7334	2443.84	.	.	.	Q.	.	V.
25.917	13040.9648	2356.87	.	.	.	Q.	.	V.
26.000	13056.5645	2265.13	.	.	.	Q.	.	V.
26.083	13071.4414	2160.12	.	.	.	Q.	.	V.
26.167	13085.7236	2073.72	.	.	.	Q.	.	V.
26.250	13099.3682	1981.16	.	.	.	Q.	.	V.
26.333	13112.2607	1872.00	.	.	.	Q.	.	V.
26.417	13124.4258	1766.40	.	.	.	Q.	.	V.
26.500	13135.7842	1649.23	.	.	.	Q.	.	V.
26.583	13146.4844	1553.73	.	.	.	Q.	.	V.
26.667	13156.6260	1472.49	.	.	.	Q.	.	V.
26.750	13166.2168	1392.56	.	.	.	Q.	.	V.
26.833	13175.1621	1298.85	.	.	.	Q.	.	V.
26.917	13183.3789	1193.01	.	.	.	Q.	.	V.
27.000	13191.0264	1110.38	.	.	.	Q.	.	V.
27.083	13198.1641	1036.39	.	.	.	Q.	.	V.
27.167	13204.7529	956.72	.	.	.	Q.	.	V.
27.250	13210.8818	889.97	.	.	.	Q.	.	V.
27.333	13216.5381	821.24	.	.	.	Q.	.	V.
27.417	13221.7686	759.39	.	.	.	Q.	.	V.
27.500	13226.6572	709.87	.	.	.	Q.	.	V.
27.583	13231.2119	661.34	.	.	.	Q.	.	V.
27.667	13235.4248	611.77	.	.	.	Q.	.	V.
27.750	13239.3018	562.90	.	.	.	Q.	.	V.
27.833	13242.8682	517.88	.	.	.	Q.	.	V.
27.917	13246.1475	476.18	.	.	.	Q.	.	V.
28.000	13249.1631	437.90	.	.	.	Q.	.	V.
28.083	13251.9492	404.58	.	.	.	Q.	.	V.

28.167	13254.5273	374.37	Q	.	.	.	V.
28.250	13256.9287	348.65	Q	.	.	.	V.
28.333	13259.1553	323.34	Q	.	.	.	V.
28.417	13261.2207	299.96	Q	.	.	.	V.
28.500	13263.1299	277.26	Q	.	.	.	V.
28.583	13264.8857	254.99	Q	.	.	.	V.
28.667	13266.5000	234.36	Q	.	.	.	V.
28.750	13267.9746	214.08	Q	.	.	.	V.
28.833	13269.3135	194.46	Q	.	.	.	V.
28.917	13270.5508	179.60	Q	.	.	.	V.
29.000	13271.6934	165.91	Q	.	.	.	V.
29.083	13272.7422	152.31	Q	.	.	.	V.
29.167	13273.6982	138.83	Q	.	.	.	V.
29.250	13274.5703	126.68	Q	.	.	.	V.
29.333	13275.3828	117.95	Q	.	.	.	V.
29.417	13276.1367	109.44	Q	.	.	.	V.
29.500	13276.8320	101.01	Q	.	.	.	V.
29.583	13277.4697	92.62	Q	.	.	.	V.
29.667	13278.0498	84.30	Q	.	.	.	V.
29.750	13278.5732	76.03	Q	.	.	.	V.
29.833	13279.0410	67.89	Q	.	.	.	V.
29.917	13279.4785	63.45	Q	.	.	.	V.
30.000	13279.8994	61.17	Q	.	.	.	V.
30.083	13280.3047	58.90	Q	.	.	.	V.
30.167	13280.6953	56.67	Q	.	.	.	V.
30.250	13281.0703	54.44	Q	.	.	.	V.
30.333	13281.4297	52.23	Q	.	.	.	V.
30.417	13281.7744	50.06	Q	.	.	.	V.
30.500	13282.1045	47.87	Q	.	.	.	V.
30.583	13282.4189	45.71	Q	.	.	.	V.
30.667	13282.7188	43.57	Q	.	.	.	V.
30.750	13283.0039	41.45	Q	.	.	.	V.
30.833	13283.2744	39.35	Q	.	.	.	V.
30.917	13283.5312	37.25	Q	.	.	.	V.
31.000	13283.7734	35.17	Q	.	.	.	V.
31.083	13284.0020	33.12	Q	.	.	.	V.
31.167	13284.2158	31.06	Q	.	.	.	V.
31.250	13284.4160	29.03	Q	.	.	.	V.
31.333	13284.6016	27.00	Q	.	.	.	V.
31.417	13284.7734	24.99	Q	.	.	.	V.
31.500	13284.9316	22.99	Q	.	.	.	V.
31.583	13285.0762	21.01	Q	.	.	.	V.
31.667	13285.2070	19.04	Q	.	.	.	V.
31.750	13285.3242	17.08	Q	.	.	.	V.
31.833	13285.4287	15.14	Q	.	.	.	V.
31.917	13285.5195	13.21	Q	.	.	.	V.
32.000	13285.5977	11.29	Q	.	.	.	V.
32.083	13285.6621	9.38	Q	.	.	.	V.
32.167	13285.7139	7.48	Q	.	.	.	V.
32.250	13285.7520	5.60	Q	.	.	.	V.
32.333	13285.7773	3.72	Q	.	.	.	V.
32.417	13285.7900	1.86	Q	.	.	.	V.
32.500	13285.7900	0.01	Q	.	.	.	V.

-----  
TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
(Note: 100% of Peak Flow Rate estimate assumed to have  
an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
=====	=====
0%	1950.0
10%	1435.0
20%	1160.0
30%	650.0
40%	500.0
50%	410.0
60%	350.0
70%	290.0
80%	225.0
90%	145.0
=====	=====

END OF FLOODSCx ROUTING ANALYSIS

\*\*\*\*\*

FLOOD ROUTING ANALYSIS  
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)  
(c) Copyright 1989-2013 Advanced Engineering Software (aes)  
Ver. 20.0 Release Date: 06/01/2013 License ID 1237

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*  
\* RMV PA-3 ROMP AMENDMENT 2022 - NODE 133T \*  
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*  
\* 25-YR EV OCT 2022 ROKAMOTO \*  
\*\*\*\*\*

FILE NAME: EV2533TS.DAT  
TIME/DATE OF STUDY: 10:38 10/25/2022

\*\*\*\*\*

FLOW PROCESS FROM NODE 13010.00 TO NODE 133.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<

=====

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 6638.200 ACRES  
BASEFLOW = 0.000 CFS/SQUARE-MILE  
\*USER ENTERED "LAG" TIME = 1.206 HOURS  
VALLEY (DEVELOPED) S-GRAPH SELECTED  
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.239  
LOW LOSS FRACTION = 0.526  
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.34  
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.72  
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 0.95  
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 1.59  
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 2.20  
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 3.68

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:  
5-MINUTE FACTOR = 0.744  
30-MINUTE FACTOR = 0.744  
1-HOUR FACTOR = 0.744  
3-HOUR FACTOR = 0.959  
6-HOUR FACTOR = 0.978  
24-HOUR FACTOR = 0.987

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES  
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 6.910

UNIT HYDROGRAPH DETERMINATION

INTERVAL NUMBER	"S" GRAPH MEAN VALUES	UNIT HYDROGRAPH ORDINATES (CFS)
1	0.395	316.989
2	1.185	633.979
3	2.019	670.109
4	3.163	917.836
5	4.690	1226.103
6	7.181	1999.663
7	10.570	2720.600
8	14.287	2984.468
9	18.393	3296.606
10	22.722	3474.990
11	27.082	3500.271
12	32.026	3969.360
13	37.267	4207.138
14	43.209	4770.197
15	49.794	5286.578
16	55.095	4255.617
17	60.875	4640.229
18	66.431	4460.422
19	71.204	3832.200
20	75.442	3401.795
21	78.735	2644.140
22	81.874	2519.473
23	84.745	2305.094
24	87.116	1903.452
25	88.951	1473.384
26	90.515	1255.030
27	91.955	1156.486
28	93.290	1071.680
29	94.404	894.063
30	95.282	704.808
31	96.081	641.954
32	96.640	448.731
33	97.182	434.999
34	97.724	435.232
35	98.063	272.413
36	98.193	104.161
37	98.323	104.038
38	98.452	103.701
39	98.582	104.044
40	98.711	104.155
41	98.841	103.818
42	98.970	104.155
43	99.100	103.928
44	99.229	103.928
45	99.359	103.928
46	99.488	103.928
47	99.618	103.928
48	99.747	103.928





4.000	43.1278	202.28	.VQ	.	.	.	.
4.083	44.5280	203.31	.VQ	.	.	.	.
4.167	45.9352	204.33	.VQ	.	.	.	.
4.250	47.3480	205.14	.VQ	.	.	.	.
4.333	48.7665	205.96	.VQ	.	.	.	.
4.417	50.1907	206.79	.VQ	.	.	.	.
4.500	51.6207	207.63	.VQ	.	.	.	.
4.583	53.0564	208.48	. Q	.	.	.	.
4.667	54.4981	209.33	. Q	.	.	.	.
4.750	55.9457	210.20	. Q	.	.	.	.
4.833	57.3994	211.07	. Q	.	.	.	.
4.917	58.8591	211.95	. Q	.	.	.	.
5.000	60.3250	212.85	. Q	.	.	.	.
5.083	61.7971	213.75	. Q	.	.	.	.
5.167	63.2755	214.66	. Q	.	.	.	.
5.250	64.7602	215.59	. Q	.	.	.	.
5.333	66.2514	216.52	. Q	.	.	.	.
5.417	67.7491	217.46	. Q	.	.	.	.
5.500	69.2534	218.42	. VQ	.	.	.	.
5.583	70.7643	219.39	. VQ	.	.	.	.
5.667	72.2820	220.36	. VQ	.	.	.	.
5.750	73.8064	221.35	. VQ	.	.	.	.
5.833	75.3378	222.35	. VQ	.	.	.	.
5.917	76.8762	223.37	. VQ	.	.	.	.
6.000	78.4216	224.39	. Q	.	.	.	.
6.083	79.9741	225.43	. Q	.	.	.	.
6.167	81.5339	226.48	. Q	.	.	.	.
6.250	83.1010	227.54	. Q	.	.	.	.
6.333	84.6755	228.62	. Q	.	.	.	.
6.417	86.2575	229.71	. Q	.	.	.	.
6.500	87.8471	230.81	. Q	.	.	.	.
6.583	89.4444	231.93	. Q	.	.	.	.
6.667	91.0495	233.06	. Q	.	.	.	.
6.750	92.6625	234.21	. Q	.	.	.	.
6.833	94.2835	235.37	. Q	.	.	.	.
6.917	95.9125	236.54	. Q	.	.	.	.
7.000	97.5498	237.73	. Q	.	.	.	.
7.083	99.1954	238.94	. Q	.	.	.	.
7.167	100.8494	240.16	. Q	.	.	.	.
7.250	102.5120	241.40	. Q	.	.	.	.
7.333	104.1832	242.66	. Q	.	.	.	.
7.417	105.8632	243.93	. QV	.	.	.	.
7.500	107.5520	245.22	. QV	.	.	.	.
7.583	109.2499	246.53	. QV	.	.	.	.
7.667	110.9569	247.86	. QV	.	.	.	.
7.750	112.6733	249.21	. QV	.	.	.	.
7.833	114.3990	250.57	. QV	.	.	.	.
7.917	116.1343	251.96	. QV	.	.	.	.
8.000	117.8792	253.37	. QV	.	.	.	.
8.083	119.6340	254.80	. QV	.	.	.	.
8.167	121.3987	256.24	. QV	.	.	.	.
8.250	123.1736	257.71	. QV	.	.	.	.
8.333	124.9588	259.20	. QV	.	.	.	.
8.417	126.7544	260.72	. QV	.	.	.	.
8.500	128.5605	262.26	. QV	.	.	.	.
8.583	130.3775	263.82	. Q V	.	.	.	.
8.667	132.2054	265.41	. Q V	.	.	.	.
8.750	134.0444	267.02	. Q V	.	.	.	.

8.833	135.8946	268.66	. Q V	.	.	.	.
8.917	137.7564	270.32	. Q V	.	.	.	.
9.000	139.6297	272.01	. Q V	.	.	.	.
9.083	141.5150	273.74	. Q V	.	.	.	.
9.167	143.4123	275.48	. Q V	.	.	.	.
9.250	145.3218	277.26	. Q V	.	.	.	.
9.333	147.2438	279.07	. Q V	.	.	.	.
9.417	149.1784	280.91	. Q V	.	.	.	.
9.500	151.1260	282.78	. Q V	.	.	.	.
9.583	153.0867	284.69	. Q V	.	.	.	.
9.667	155.0607	286.63	. Q V	.	.	.	.
9.750	157.0483	288.60	. Q V	.	.	.	.
9.833	159.0498	290.61	. Q V	.	.	.	.
9.917	161.0654	292.66	. Q V	.	.	.	.
10.000	163.0953	294.75	. Q V	.	.	.	.
10.083	165.1399	296.87	. Q V	.	.	.	.
10.167	167.1994	299.04	. Q V	.	.	.	.
10.250	169.2741	301.25	. Q V	.	.	.	.
10.333	171.3643	303.50	. Q V	.	.	.	.
10.417	173.4704	305.80	. Q V	.	.	.	.
10.500	175.5925	308.14	. Q V	.	.	.	.
10.583	177.7311	310.53	. Q V	.	.	.	.
10.667	179.8865	312.97	. Q V	.	.	.	.
10.750	182.0591	315.46	. Q V	.	.	.	.
10.833	184.2492	318.00	. Q V	.	.	.	.
10.917	186.4572	320.60	. Q V	.	.	.	.
11.000	188.6834	323.25	. Q V	.	.	.	.
11.083	190.9284	325.97	. Q V	.	.	.	.
11.167	193.1924	328.74	. Q V	.	.	.	.
11.250	195.4760	331.58	. Q V	.	.	.	.
11.333	197.7795	334.47	. Q V	.	.	.	.
11.417	200.1035	337.45	. Q V	.	.	.	.
11.500	202.4484	340.48	. Q V	.	.	.	.
11.583	204.8148	343.60	. Q V	.	.	.	.
11.667	207.2031	346.78	. Q V	.	.	.	.
11.750	209.6140	350.06	. Q V	.	.	.	.
11.833	212.0479	353.40	. Q V	.	.	.	.
11.917	214.5055	356.84	. Q V	.	.	.	.
12.000	216.9874	360.37	. Q V	.	.	.	.
12.083	219.4979	364.53	. Q V	.	.	.	.
12.167	222.0414	369.33	. Q V	.	.	.	.
12.250	224.6192	374.30	. Q V	.	.	.	.
12.333	227.2349	379.79	. Q V	.	.	.	.
12.417	229.8928	385.93	. Q V	.	.	.	.
12.500	232.6030	393.51	. Q V	.	.	.	.
12.583	235.3747	402.46	. Q V	.	.	.	.
12.667	238.2121	411.99	. Q V	.	.	.	.
12.750	241.1199	422.21	. Q V	.	.	.	.
12.833	244.1011	432.88	. Q V	.	.	.	.
12.917	247.1573	443.76	. Q V	.	.	.	.
13.000	250.2951	455.61	. Q V	.	.	.	.
13.083	253.5186	468.05	. Q V	.	.	.	.
13.167	256.8358	481.64	. Q V	.	.	.	.
13.250	260.2540	496.32	. Q V	.	.	.	.
13.333	263.7626	509.45	. Q V	.	.	.	.
13.417	267.3677	523.47	. Q V	.	.	.	.
13.500	271.0689	537.40	. Q V	.	.	.	.
13.583	274.8604	550.53	. Q V	.	.	.	.

13.667	278.7389	563.16	.	Q	V	.	.	.
13.750	282.6975	574.79	.	Q	V	.	.	.
13.833	286.7367	586.48	.	Q	V	.	.	.
13.917	290.8560	598.12	.	Q	.V	.	.	.
14.000	295.0529	609.39	.	Q	.V	.	.	.
14.083	299.3336	621.56	.	Q	.V	.	.	.
14.167	303.7068	634.99	.	Q	.V	.	.	.
14.250	308.1750	648.78	.	Q	.V	.	.	.
14.333	312.7467	663.81	.	Q	.V	.	.	.
14.417	317.4314	680.22	.	Q	.V	.	.	.
14.500	322.2514	699.86	.	Q	.V	.	.	.
14.583	327.2292	722.78	.	Q	.V	.	.	.
14.667	332.3731	746.88	.	Q	V	.	.	.
14.750	337.6949	772.73	.	Q	V	.	.	.
14.833	343.2032	799.80	.	.Q	V	.	.	.
14.917	348.9007	827.28	.	.Q	V	.	.	.
15.000	354.8026	856.96	.	.Q	V	.	.	.
15.083	360.9204	888.30	.	.	QV	.	.	.
15.167	367.2746	922.62	.	.	Q	V	.	.
15.250	373.8865	960.05	.	.	QV	.	.	.
15.333	380.7354	994.47	.	.	QV	.	.	.
15.417	387.8203	1028.72	.	.	Q	.	.	.
15.500	395.1250	1060.64	.	.	QV	.	.	.
15.583	402.6424	1091.53	.	.	Q	.	.	.
15.667	410.3613	1120.78	.	.	Q	.	.	.
15.750	418.2668	1147.88	.	.	QV	.	.	.
15.833	426.3405	1172.31	.	.	Q	.	.	.
15.917	434.5974	1198.90	.	.	Q	.	.	.
16.000	443.1238	1238.03	.	.	VQ	.	.	.
16.083	452.3417	1338.44	.	.	VQ	.	.	.
16.167	462.2409	1437.36	.	.	V	Q	.	.
16.250	472.5172	1492.12	.	.	V	Q	.	.
16.333	483.5163	1597.07	.	.	V	.Q	.	.
16.417	495.4706	1735.76	.	.	V	.Q	.	.
16.500	508.9476	1956.86	.	.	V	.Q	.	.
16.583	523.7136	2144.02	.	.	V	.Q	.	.
16.667	539.1368	2239.44	.	.	V	.Q	.	.
16.750	555.1495	2325.05	.	.	.V	.Q	.	.
16.833	571.5921	2387.46	.	.	.V	.Q	.	.
16.917	588.3792	2437.48	.	.	.V	.Q	.	.
17.000	606.0828	2570.57	.	.	.V	.Q	.Q	.
17.083	624.4658	2669.22	.	.	.V	.Q	.Q	.
17.167	643.7252	2796.45	.	.	.V	.Q	.Q	.
17.250	663.4760	2867.82	.	.	.V	.Q	.Q	.
17.333	681.7633	2655.32	.	.	.V	.Q	.Q	.
17.417	700.2509	2684.39	.	.	.V	.Q	.Q	.
17.500	718.1039	2592.27	.	.	.V	.Q	.Q	.
17.583	734.6346	2400.26	.	.	.V	.Q	.Q	.
17.667	749.9801	2228.16	.	.	.V	Q	.Q	.
17.750	763.8768	2017.81	.	.	.Q	V	.Q	.
17.833	777.1641	1929.32	.	.	.Q	V	.Q	.
17.917	789.6849	1818.02	.	.	.Q	V	.Q	.
18.000	801.1758	1668.47	.	.	.Q	V	.Q	.
18.083	811.6170	1516.07	.	.	.Q	.V	.Q	.
18.167	821.3438	1412.33	.	.	.Q	.V	.Q	.
18.250	830.5394	1335.20	.	.	.Q	.V	.Q	.
18.333	839.2350	1262.60	.	.	.Q	.V	.Q	.
18.417	847.2843	1168.76	.	.	.Q	.V	.Q	.

18.500	854.6859	1074.71	.	.	.Q	.	.	.V	.
18.583	861.6268	1007.82	.	.	.Q	.	.	.V	.
18.667	867.9954	924.73	.	.	.Q	.	.	.V	.
18.750	874.0450	878.40	.	.	.Q	.	.	.V	.
18.833	879.7704	831.32	.	.	.Q	.	.	.V	.
18.917	884.9749	755.69	.	.	.Q	.	.	.V	.
19.000	889.6937	685.18	.	.	.Q	.	.	.V	.
19.083	894.1957	653.68	.	.	.Q	.	.	.V	.
19.167	898.5086	626.23	.	.	.Q	.	.	.V	.
19.250	902.6307	598.53	.	.	.Q	.	.	.V	.
19.333	906.5751	572.72	.	.	.Q	.	.	.V	.
19.417	910.3496	548.06	.	.	.Q	.	.	.V	.
19.500	913.9686	525.48	.	.	.Q	.	.	.V	.
19.583	917.4519	505.77	.	.	.Q	.	.	.V	.
19.667	920.8145	488.24	.	.	.Q	.	.	.V	.
19.750	924.0688	472.53	.	.	.Q	.	.	.V	.
19.833	927.2194	457.47	.	.	.Q	.	.	.V	.
19.917	930.2734	443.45	.	.	.Q	.	.	.V	.
20.000	933.2395	430.68	.	.	.Q	.	.	.V	.
20.083	936.1125	417.16	.	.	.Q	.	.	.V	.
20.167	938.8766	401.34	.	.	.Q	.	.	.V	.
20.250	941.4275	370.39	.	.	.Q	.	.	.V	.
20.333	943.9066	359.96	.	.	.Q	.	.	.V	.
20.417	946.3284	351.65	.	.	.Q	.	.	.V	.
20.500	948.6990	344.21	.	.	.Q	.	.	.V	.
20.583	951.0154	336.35	.	.	.Q	.	.	.V	.
20.667	953.2834	329.31	.	.	.Q	.	.	.V	.
20.750	955.5052	322.61	.	.	.Q	.	.	.V	.
20.833	957.6827	316.18	.	.	.Q	.	.	.V	.
20.917	959.8196	310.28	.	.	.Q	.	.	.V	.
21.000	961.9194	304.89	.	.	.Q	.	.	.V	.
21.083	963.9835	299.70	.	.	.Q	.	.	.V	.
21.167	966.0132	294.72	.	.	.Q	.	.	.V	.
21.250	968.0126	290.31	.	.	.Q	.	.	.V	.
21.333	969.9828	286.08	.	.	.Q	.	.	.V	.
21.417	971.9250	282.00	.	.	.Q	.	.	.V	.
21.500	973.8401	278.07	.	.	.Q	.	.	.V	.
21.583	975.7291	274.28	.	.	.Q	.	.	.V	.
21.667	977.5928	270.61	.	.	.Q	.	.	.V	.
21.750	979.4321	267.06	.	.	.Q	.	.	.V	.
21.833	981.2477	263.63	.	.	.Q	.	.	.V	.
21.917	983.0404	260.30	.	.	.Q	.	.	.V	.
22.000	984.8109	257.08	.	.	.Q	.	.	.V	.
22.083	986.5599	253.95	.	.	.Q	.	.	.V	.
22.167	988.2880	250.92	.	.	.Q	.	.	.V	.
22.250	989.9971	248.15	.	.	.Q	.	.	.V	.
22.333	991.6876	245.46	.	.	.Q	.	.	.V	.
22.417	993.3600	242.84	.	.	.Q	.	.	.V	.
22.500	995.0150	240.30	.	.	.Q	.	.	.V	.
22.583	996.6530	237.83	.	.	.Q	.	.	.V	.
22.667	998.2744	235.42	.	.	.Q	.	.	.V	.
22.750	999.8796	233.08	.	.	.Q	.	.	.V	.
22.833	1001.4691	230.80	.	.	.Q	.	.	.V	.
22.917	1003.0434	228.58	.	.	.Q	.	.	.V	.
23.000	1004.6027	226.42	.	.	.Q	.	.	.V	.
23.083	1006.1475	224.31	.	.	.Q	.	.	.V	.
23.167	1007.6782	222.25	.	.	.Q	.	.	.V	.
23.250	1009.1949	220.24	.	.	.Q	.	.	.V	.

23.333	1010.6982	218.27	. Q	.	.	.	V .
23.417	1012.1883	216.36	. Q	.	.	.	V .
23.500	1013.6655	214.49	. Q	.	.	.	V .
23.583	1015.1300	212.65	. Q	.	.	.	V .
23.667	1016.5823	210.87	. Q	.	.	.	V .
23.750	1018.0225	209.12	. Q	.	.	.	V .
23.833	1019.4509	207.40	. Q	.	.	.	V .
23.917	1020.8677	205.73	. Q	.	.	.	V .
24.000	1022.2733	204.09	. Q	.	.	.	V .
24.083	1023.6629	201.77	. Q	.	.	.	V .
24.167	1025.0319	198.77	. Q	.	.	.	V .
24.250	1026.3799	195.74	. Q	.	.	.	V .
24.333	1027.7035	192.18	. Q	.	.	.	V .
24.417	1028.9982	187.98	. Q	.	.	.	V .
24.500	1030.2522	182.08	. Q	.	.	.	V .
24.583	1031.4548	174.61	. Q	.	.	.	V .
24.667	1032.6023	166.62	. Q	.	.	.	V .
24.750	1033.6903	157.99	. Q	.	.	.	V .
24.833	1034.7167	149.03	. Q	.	.	.	V .
24.917	1035.6814	140.08	.Q	.	.	.	V .
25.000	1036.5778	130.15	.Q	.	.	.	V .
25.083	1037.4025	119.76	.Q	.	.	.	V .
25.167	1038.1475	108.17	.Q	.	.	.	V .
25.250	1038.8053	95.51	.Q	.	.	.	V .
25.333	1039.3926	85.27	.Q	.	.	.	V .
25.417	1039.9038	74.22	.Q	.	.	.	V .
25.500	1040.3423	63.67	Q	.	.	.	V .
25.583	1040.7183	54.60	Q	.	.	.	V .
25.667	1041.0389	46.56	Q	.	.	.	V .
25.750	1041.3164	40.28	Q	.	.	.	V .
25.833	1041.5529	34.33	Q	.	.	.	V .
25.917	1041.7520	28.90	Q	.	.	.	V .
26.000	1041.9202	24.42	Q	.	.	.	V .
26.083	1042.0643	20.93	Q	.	.	.	V .
26.167	1042.1880	17.96	Q	.	.	.	V .
26.250	1042.2928	15.23	Q	.	.	.	V .
26.333	1042.3804	12.71	Q	.	.	.	V .
26.417	1042.4535	10.61	Q	.	.	.	V .
26.500	1042.5151	8.95	Q	.	.	.	V .
26.583	1042.5664	7.44	Q	.	.	.	V .
26.667	1042.6104	6.38	Q	.	.	.	V .
26.750	1042.6472	5.36	Q	.	.	.	V .
26.833	1042.6771	4.34	Q	.	.	.	V .
26.917	1042.7026	3.70	Q	.	.	.	V .
27.000	1042.7263	3.44	Q	.	.	.	V .
27.083	1042.7482	3.18	Q	.	.	.	V .
27.167	1042.7683	2.92	Q	.	.	.	V .
27.250	1042.7867	2.67	Q	.	.	.	V .
27.333	1042.8033	2.42	Q	.	.	.	V .
27.417	1042.8182	2.17	Q	.	.	.	V .
27.500	1042.8314	1.92	Q	.	.	.	V .
27.583	1042.8429	1.67	Q	.	.	.	V .
27.667	1042.8527	1.43	Q	.	.	.	V .
27.750	1042.8608	1.18	Q	.	.	.	V .
27.833	1042.8673	0.94	Q	.	.	.	V .
27.917	1042.8721	0.70	Q	.	.	.	V .
28.000	1042.8752	0.46	Q	.	.	.	V .
28.083	1042.8768	0.22	Q	.	.	.	V .

-----  
 TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
 (Note: 100% of Peak Flow Rate estimate assumed to have  
 an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
=====	=====
0%	1685.0
10%	695.0
20%	335.0
30%	225.0
40%	165.0
50%	120.0
60%	95.0
70%	75.0
80%	55.0
90%	30.0

-----

END OF FLOODSCx ROUTING ANALYSIS

\*\*\*\*\*

FLOOD ROUTING ANALYSIS  
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)  
(c) Copyright 1989-2013 Advanced Engineering Software (aes)  
Ver. 20.0 Release Date: 06/01/2013 License ID 1237

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*  
\* RMV PA-3 BODR 2022 - NODE 133U \*  
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*  
\* 25-YR EV JULY 2022 ROKAMOTO \*  
\*\*\*\*\*

FILE NAME: EV2533US.DAT  
TIME/DATE OF STUDY: 14:04 07/24/2022

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 133.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<

=====

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 54417.500 ACRES  
BASEFLOW = 0.000 CFS/SQUARE-MILE  
\*USER ENTERED "LAG" TIME = 2.477 HOURS  
VALLEY (DEVELOPED) S-GRAPH SELECTED  
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.290  
LOW LOSS FRACTION = 0.439  
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.41  
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.77  
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 1.07  
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 1.98  
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 2.93  
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 5.15

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:  
5-MINUTE FACTOR = 0.328  
30-MINUTE FACTOR = 0.381  
1-HOUR FACTOR = 0.422  
3-HOUR FACTOR = 0.771  
6-HOUR FACTOR = 0.897  
24-HOUR FACTOR = 0.940

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES  
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 3.364

===== UNIT HYDROGRAPH DETERMINATION =====

INTERVAL NUMBER	"S" GRAPH MEAN VALUES	UNIT HYDROGRAPH ORDINATES (CFS)
1	0.192	1265.186
2	0.577	2530.371
3	0.961	2530.372
4	1.346	2530.370
5	1.730	2530.373
6	2.179	2951.039
7	2.760	3823.709
8	3.345	3850.562
9	3.965	4084.145
10	4.947	6463.473
11	6.070	7390.184
12	7.450	9082.289
13	9.095	10824.712
14	10.834	11442.505
15	12.516	11070.354
16	14.391	12338.124
17	16.665	14968.723
18	18.467	11854.690
19	20.354	12423.368
20	22.696	15413.270
21	24.982	15039.368
22	26.904	12651.836
23	29.151	14788.532
24	31.589	16045.513
25	34.510	19220.613
26	36.820	15204.145
27	39.367	16759.021
28	42.509	20681.621
29	45.557	20059.369
30	49.030	22856.541
31	51.899	18877.553
32	54.304	15826.070
33	56.686	15676.595
34	59.563	18936.576
35	62.881	21837.379
36	65.428	16757.816
37	67.698	14943.028
38	70.183	16351.417
39	72.243	13558.539
40	74.388	14114.865
41	76.313	12671.180
42	77.830	9984.797
43	79.326	9841.046
44	80.869	10156.214
45	82.401	10081.753
46	83.812	9286.076
47	85.120	8607.891
48	86.320	7899.177

49	87.359	6839.948
50	88.300	6190.382
51	89.093	5221.883
52	89.880	5174.083
53	90.605	4775.818
54	91.314	4661.189
55	92.012	4599.129
56	92.661	4264.781
57	93.301	4217.986
58	93.924	4099.541
59	94.389	3054.622
60	94.816	2812.007
61	95.243	2813.915
62	95.670	2810.049
63	96.054	2527.367
64	96.324	1774.720
65	96.588	1738.368
66	96.852	1734.552
67	97.116	1738.418
68	97.380	1736.460
69	97.644	1736.510
70	97.905	1721.196
71	98.041	894.038
72	98.104	414.533
73	98.168	418.349
74	98.230	410.717
75	98.293	416.441
76	98.357	416.491
77	98.419	410.717
78	98.483	418.349
79	98.546	416.441
80	98.609	414.533
81	98.672	414.533
82	98.735	414.583
83	98.798	416.441
84	98.861	416.441
85	98.924	412.625
86	98.987	416.441
87	99.051	416.441
88	99.114	416.441
89	99.177	416.441
90	99.240	416.441
91	99.304	416.441
92	99.367	416.441
93	99.430	416.441
94	99.494	416.441
95	99.557	416.441
96	99.620	416.441
97	99.683	416.441
98	99.747	416.441
99	99.810	416.441
100	99.873	416.441
101	99.936	416.441
102	100.000	416.441
103	100.000	1.607

TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 9484.7549  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 12474.2588

2 4 - 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 FIVE-MINUTE UNIT INTERVALS (CFS)

(Note: Time indicated is at END of Each Unit Intervals)

TIME (HRS)	VOLUME (AF)	Q (CFS)	0.	3800.0	7600.0	11400.0	15200.0
0.083	0.0363	5.27	Q	.	.	.	.
0.167	0.1452	15.81	Q	.	.	.	.
0.250	0.3269	26.39	Q	.	.	.	.
0.333	0.5816	36.99	Q	.	.	.	.
0.417	0.9097	47.63	Q	.	.	.	.
0.500	1.3232	60.05	Q	.	.	.	.
0.583	1.8476	76.14	Q	.	.	.	.
0.667	2.4839	92.38	Q	.	.	.	.
0.750	3.2391	109.65	Q	.	.	.	.
0.833	4.1817	136.88	Q	.	.	.	.
0.917	5.3390	168.03	Q	.	.	.	.
1.000	6.7600	206.33	Q	.	.	.	.
1.083	8.4954	251.99	Q	.	.	.	.
1.167	10.5640	300.35	Q	.	.	.	.
1.250	12.9559	347.31	Q	.	.	.	.
1.333	15.7086	399.69	VQ	.	.	.	.
1.417	18.8985	463.17	VQ	.	.	.	.
1.500	22.4377	513.89	VQ	.	.	.	.
1.583	26.3436	567.13	VQ	.	.	.	.
1.667	30.7029	632.98	VQ	.	.	.	.
1.750	35.5065	697.47	VQ	.	.	.	.
1.833	40.6871	752.22	VQ	.	.	.	.
1.917	46.3072	816.05	V Q	.	.	.	.
2.000	52.4043	885.29	V Q	.	.	.	.
2.083	59.0709	967.99	V Q	.	.	.	.
2.167	66.1934	1034.18	V Q	.	.	.	.
2.250	73.8181	1107.11	V Q	.	.	.	.
2.333	82.0588	1196.55	V Q	.	.	.	.
2.417	90.8998	1283.71	V Q	.	.	.	.
2.500	100.4230	1382.77	V Q	.	.	.	.
2.583	110.5166	1465.59	V Q	.	.	.	.
2.667	121.0949	1535.97	V Q	.	.	.	.
2.750	132.1553	1605.98	V Q	.	.	.	.
2.833	143.7928	1689.77	V Q	.	.	.	.
2.917	156.0925	1785.92	V Q	.	.	.	.
3.000	168.9109	1861.22	V Q	.	.	.	.
3.083	182.1977	1929.25	V Q	.	.	.	.
3.167	195.9949	2003.36	V Q	.	.	.	.
3.250	210.2243	2066.10	V Q	.	.	.	.
3.333	224.9033	2131.38	V Q	.	.	.	.
3.417	239.9920	2190.89	V Q	.	.	.	.
3.500	255.4151	2239.43	V Q	.	.	.	.
3.583	271.1697	2287.56	V Q	.	.	.	.
3.667	287.2660	2337.18	V Q	.	.	.	.
3.750	303.7032	2386.69	V Q	.	.	.	.
3.833	320.4600	2433.07	.V Q	.	.	.	.
3.917	337.5180	2476.83	.V Q	.	.	.	.

4.000	354.8582	2517.80	.V	Q	.	.	.	.
4.083	372.4515	2554.55	.V	Q	.	.	.	.
4.167	390.2803	2588.74	.V	Q	.	.	.	.
4.250	408.3179	2619.07	.V	Q	.	.	.	.
4.333	426.5640	2649.33	.V	Q	.	.	.	.
4.417	445.0081	2678.09	.V	Q	.	.	.	.
4.500	463.6480	2706.51	.V	Q	.	.	.	.
4.583	482.4828	2734.82	.V	Q	.	.	.	.
4.667	501.5040	2761.87	.V	Q	.	.	.	.
4.750	520.7111	2788.88	.V	Q	.	.	.	.
4.833	540.1018	2815.53	.V	Q	.	.	.	.
4.917	559.6472	2837.99	.V	Q	.	.	.	.
5.000	579.3411	2859.55	.V	Q	.	.	.	.
5.083	599.1845	2881.27	.V	Q	.	.	.	.
5.167	619.1783	2903.09	.V	Q	.	.	.	.
5.250	639.3152	2923.89	.V	Q	.	.	.	.
5.333	659.5747	2941.67	.V	Q	.	.	.	.
5.417	679.9565	2959.45	.V	Q	.	.	.	.
5.500	700.4614	2977.31	.V	Q	.	.	.	.
5.583	721.0905	2995.34	.V	Q	.	.	.	.
5.667	741.8445	3013.48	.V	Q	.	.	.	.
5.750	762.7245	3031.77	.V	Q	.	.	.	.
5.833	783.7308	3050.11	.V	Q	.	.	.	.
5.917	804.8407	3065.16	.V	Q	.	.	.	.
6.000	826.0414	3078.34	.V	Q	.	.	.	.
6.083	847.3339	3091.67	.V	Q	.	.	.	.
6.167	868.7188	3105.09	.V	Q	.	.	.	.
6.250	890.1973	3118.67	.V	Q	.	.	.	.
6.333	911.7701	3132.38	.V	Q	.	.	.	.
6.417	933.4382	3146.20	.V	Q	.	.	.	.
6.500	955.2025	3160.19	.V	Q	.	.	.	.
6.583	977.0642	3174.32	.V	Q	.	.	.	.
6.667	999.0240	3188.57	.V	Q	.	.	.	.
6.750	1021.0831	3202.98	.V	Q	.	.	.	.
6.833	1043.2423	3217.52	.V	Q	.	.	.	.
6.917	1065.5029	3232.24	.V	Q	.	.	.	.
7.000	1087.8658	3247.09	.V	Q	.	.	.	.
7.083	1110.3320	3262.10	.V	Q	.	.	.	.
7.167	1132.9027	3277.27	.V	Q	.	.	.	.
7.250	1155.5791	3292.62	.V	Q	.	.	.	.
7.333	1178.3623	3308.12	.V	Q	.	.	.	.
7.417	1201.2535	3323.80	.V	Q	.	.	.	.
7.500	1224.2538	3339.64	.V	Q	.	.	.	.
7.583	1247.3645	3355.67	.V	Q	.	.	.	.
7.667	1270.5867	3371.86	.V	Q	.	.	.	.
7.750	1293.9218	3388.25	.V	Q	.	.	.	.
7.833	1317.3708	3404.81	.V	Q	.	.	.	.
7.917	1340.9354	3421.58	.V	Q	.	.	.	.
8.000	1364.6167	3438.52	.V	Q	.	.	.	.
8.083	1388.4161	3455.68	.V	Q	.	.	.	.
8.167	1412.3351	3473.03	.V	Q	.	.	.	.
8.250	1436.3750	3490.60	.V	Q	.	.	.	.
8.333	1460.5372	3508.36	.V	Q	.	.	.	.
8.417	1484.8234	3526.35	.V	Q	.	.	.	.
8.500	1509.2349	3544.55	.V	Q	.	.	.	.
8.583	1533.7615	3561.26	.V	Q	.	.	.	.
8.667	1558.4045	3578.17	.V	Q	.	.	.	.
8.750	1583.1658	3595.33	.V	Q	.	.	.	.

8.833	1608.0466	3612.70	.	V	Q.	.	.	.
8.917	1633.0490	3630.34	.	V	Q.	.	.	.
9.000	1658.1743	3648.20	.	V	Q.	.	.	.
9.083	1683.4246	3666.34	.	V	Q.	.	.	.
9.167	1708.8013	3684.71	.	V	Q.	.	.	.
9.250	1734.3065	3703.36	.	V	Q.	.	.	.
9.333	1759.9419	3722.26	.	V	Q.	.	.	.
9.417	1785.7096	3741.46	.	V	Q.	.	.	.
9.500	1811.6113	3760.93	.	V	Q.	.	.	.
9.583	1837.6492	3780.70	.	V	Q.	.	.	.
9.667	1863.8252	3800.75	.	V	Q	.	.	.
9.750	1890.1415	3821.13	.	V	Q	.	.	.
9.833	1916.6001	3841.80	.	V	Q	.	.	.
9.917	1943.2035	3862.81	.	V	Q	.	.	.
10.000	1969.9537	3884.13	.	V	Q	.	.	.
10.083	1996.8533	3905.82	.	V	Q	.	.	.
10.167	2023.9044	3927.82	.	V	Q	.	.	.
10.250	2051.1096	3950.21	.	V	Q	.	.	.
10.333	2078.4714	3972.94	.	V	Q	.	.	.
10.417	2105.9927	3996.07	.	V	Q	.	.	.
10.500	2133.6755	4019.56	.	V	Q	.	.	.
10.583	2161.5232	4043.48	.	V	Q	.	.	.
10.667	2189.5383	4067.78	.	V	Q	.	.	.
10.750	2217.7239	4092.54	.	V	Q	.	.	.
10.833	2246.0825	4117.69	.	V	Q	.	.	.
10.917	2274.6179	4143.33	.	V	Q	.	.	.
11.000	2303.3328	4169.39	.	V	Q	.	.	.
11.083	2332.2305	4195.96	.	V	.Q	.	.	.
11.167	2361.3145	4222.99	.	V	.Q	.	.	.
11.250	2390.5884	4250.56	.	V	.Q	.	.	.
11.333	2420.0554	4278.61	.	V	.Q	.	.	.
11.417	2449.7197	4307.24	.	V	.Q	.	.	.
11.500	2479.5847	4336.38	.	V	.Q	.	.	.
11.583	2509.6545	4366.15	.	V	.Q	.	.	.
11.667	2539.9331	4396.46	.	V	.Q	.	.	.
11.750	2570.4250	4427.43	.	V	.Q	.	.	.
11.833	2601.1343	4458.99	.	V	.Q	.	.	.
11.917	2632.0657	4491.25	.	V	.Q	.	.	.
12.000	2663.2236	4524.15	.	V	.Q	.	.	.
12.083	2694.6750	4566.73	.	V	.Q	.	.	.
12.167	2726.4856	4618.89	.	V	.Q	.	.	.
12.250	2758.6602	4671.76	.	V	.Q	.	.	.
12.333	2791.2034	4725.28	.	V	.Q	.	.	.
12.417	2824.1206	4779.58	.	V	.Q	.	.	.
12.500	2857.4370	4837.54	.	V	.Q	.	.	.
12.583	2891.2007	4902.47	.	V	.Q	.	.	.
12.667	2925.4177	4968.30	.	V	.Q	.	.	.
12.750	2960.1052	5036.63	.	V	.Q	.	.	.
12.833	2995.3843	5122.50	.	V	.Q	.	.	.
12.917	3031.3054	5215.76	.	V	.Q	.	.	.
13.000	3067.9558	5321.65	.	V	.Q	.	.	.
13.083	3105.4260	5440.66	.	V	.Q	.	.	.
13.167	3143.7502	5564.66	.	V	.Q	.	.	.
13.250	3182.9158	5686.84	.	V	.Q	.	.	.
13.333	3222.9890	5818.62	.	V	.Q	.	.	.
13.417	3264.1035	5969.83	.	V	.Q	.	.	.
13.500	3306.1123	6099.66	.	V	.Q	.	.	.
13.583	3349.0488	6234.40	.	V	.Q	.	.	.

13.667	3393.0642	6391.02	.	V	Q	.	.	.
13.750	3438.1460	6545.87	.	.V	Q	.	.	.
13.833	3484.1833	6684.62	.	.V	Q	.	.	.
13.917	3531.2871	6839.47	.	.V	Q	.	.	.
14.000	3579.5244	7004.07	.	.V	Q	.	.	.
14.083	3629.1230	7201.72	.	.V	Q	.	.	.
14.167	3679.9583	7381.26	.	.V	Q.	.	.	.
14.250	3732.1074	7572.06	.	.V	Q.	.	.	.
14.333	3785.7634	7790.84	.	.V	Q	.	.	.
14.417	3840.8970	8005.40	.	.V	.Q	.	.	.
14.500	3897.6675	8243.08	.	.V	.Q	.	.	.
14.583	3955.9280	8459.43	.	.V	.Q	.	.	.
14.667	4015.5305	8654.30	.	.V	.Q	.	.	.
14.750	4076.4802	8849.91	.	.V	.Q	.	.	.
14.833	4139.0601	9086.59	.	.V	.Q	.	.	.
14.917	4203.4556	9350.23	.	.V	.Q	.	.	.
15.000	4269.4990	9589.49	.	.V	.Q	.	.	.
15.083	4337.1841	9827.88	.	.V	.Q	.	.	.
15.167	4406.5962	10078.63	.	.V	.Q	.	.	.
15.250	4477.5645	10304.57	.	.V	.Q	.	.	.
15.333	4550.1636	10541.40	.	.V	.Q	.	.	.
15.417	4624.3569	10772.84	.	.V	.Q	.	.	.
15.500	4699.7407	10945.71	.	.V	.Q	.	.	.
15.583	4776.3369	11121.75	.	.V	.Q.	.	.	.
15.667	4854.3188	11322.98	.	.V	.Q.	.	.	.
15.750	4933.6221	11514.82	.	.V	.Q	.	.	.
15.833	5014.0156	11673.17	.	.V	.Q	.	.	.
15.917	5095.5625	11840.63	.	.V	.Q	.	.	.
16.000	5178.3867	12026.10	.	.V	.Q	.	.	.
16.083	5263.3589	12337.99	.	.V	.Q	.	.	.
16.167	5349.9473	12572.64	.	.V	.Q	.	.	.
16.250	5437.2720	12679.58	.	.V	.Q	.	.	.
16.333	5525.4331	12800.98	.	.V	.Q	.	.	.
16.417	5614.3579	12911.87	.	.V	.Q	.	.	.
16.500	5704.4736	13084.82	.	.V	.Q	.	.	.
16.583	5795.8403	13266.47	.	.V	.Q	.	.	.
16.667	5887.7207	13341.02	.	.V	.Q	.	.	.
16.750	5980.1538	13421.31	.	.V	.Q	.	.	.
16.833	6074.8848	13754.97	.	.V	.Q	.	.	.
16.917	6171.1860	13982.95	.	.V	.Q	.	.	.
17.000	6268.9937	14201.64	.	.V	.Q	.	.	.
17.083	6368.0176	14378.28	.	.V	.Q	.	.	.
17.167	6467.9404	14508.83	.	.V	.Q	.	.	.
17.250	6567.9785	14525.54	.	.V	.Q	.	.	.
17.333	6669.0239	14671.82	.	.V	.Q	.	.	.
17.417	6771.4980	14879.23	.	.V	.Q.	.	.	.
17.500	6872.2988	14636.30	.	.V	.Q	.	.	.
17.583	6973.6592	14717.55	.	.V	.Q	.	.	.
17.667	7076.5928	14945.94	.	.V	.Q	.	.	.
17.750	7179.1362	14889.29	.	.V	.Q.	.	.	.
17.833	7279.9106	14632.48	.	.V	.Q	.	.	.
17.917	7381.9790	14820.33	.	.V	.Q	.	.	.
18.000	7484.8813	14941.39	.	.V	.Q.	.	.	.
18.083	7589.3457	15168.22	.	.V	.Q	.	.	.
18.167	7690.5762	14698.63	.	.V	.Q	.	.	.
18.250	7792.2139	14757.77	.	.V	.Q	.	.	.
18.333	7895.9697	15065.35	.	.V	.Q	.	.	.
18.417	7999.1572	14982.82	.	.V	.Q	.	.	.



18.500	8103.1519	15099.99	.	.	.	V	.	Q.
18.583	8203.8008	14614.27	.	.	.	V	.	Q.
18.667	8302.2158	14289.87	.	.	.	V	.	Q.
18.750	8400.5537	14278.70	.	.	.	V	.	Q.
18.833	8501.1055	14600.17	.	.	.	V	.	Q.
18.917	8602.7793	14762.98	.	.	.	V	.	Q.
19.000	8700.2861	14158.01	.	.	.	V	.	Q.
19.083	8795.5225	13828.29	.	.	.	V	.	Q.
19.167	8890.7734	13830.47	.	.	.	V	.	Q.
19.250	8983.6924	13491.86	.	.	.	V	.	Q.
19.333	9075.6631	13354.18	.	.	.	V	.	Q.
19.417	9165.1602	12994.93	.	.	.	V	.	Q.
19.500	9251.7227	12568.89	.	.	.	V	.	Q.
19.583	9337.0410	12388.17	.	.	.	V	.	Q.
19.667	9421.3936	12248.05	.	.	.	V	.	Q.
19.750	9504.4600	12061.30	.	.	.	V	.	Q.
19.833	9585.5254	11770.66	.	.	.	Q	.	.
19.917	9664.2949	11437.29	.	.	.	Q	.	.
20.000	9740.8955	11122.37	.	.	.	Q.V	.	.
20.083	9815.0449	10766.43	.	.	.	Q.V	.	.
20.167	9887.0732	10458.50	.	.	.	Q.V	.	.
20.250	9956.9180	10141.44	.	.	.	Q.V	.	.
20.333	10024.9102	9872.45	.	.	.	Q.V	.	.
20.417	10090.8613	9576.09	.	.	.	Q.V	.	.
20.500	10154.9092	9299.71	.	.	.	Q.V	.	.
20.583	10217.2246	9048.24	.	.	.	Q.V	.	.
20.667	10277.8213	8798.68	.	.	.	Q.V	.	.
20.750	10336.8174	8566.22	.	.	.	Q.V	.	.
20.833	10393.9766	8299.50	.	.	.	Q.V	.	.
20.917	10448.6533	7939.03	.	.	.	Q.V	.	.
21.000	10501.6562	7695.98	.	.	.	Q.V	.	.
21.083	10553.2676	7493.94	.	.	.	Q.V	.	.
21.167	10603.4209	7282.21	.	.	.	Q.V	.	.
21.250	10652.1064	7069.09	.	.	.	Q.V	.	.
21.333	10699.0664	6818.58	.	.	.	Q.V	.	.
21.417	10744.8525	6648.15	.	.	.	Q.V	.	.
21.500	10789.6240	6500.81	.	.	.	Q.V	.	.
21.583	10833.4082	6357.46	.	.	.	Q.V	.	.
21.667	10876.1611	6207.73	.	.	.	Q.V	.	.
21.750	10917.8525	6053.61	.	.	.	Q.V	.	.
21.833	10958.4629	5896.60	.	.	.	Q.V	.	.
21.917	10997.5947	5681.96	.	.	.	Q.V	.	.
22.000	11035.5625	5512.93	.	.	.	Q.V	.	.
22.083	11072.7373	5397.82	.	.	.	Q.V	.	.
22.167	11109.1641	5289.10	.	.	.	Q.V	.	.
22.250	11144.8740	5185.03	.	.	.	Q.V	.	.
22.333	11179.8799	5082.92	.	.	.	Q.V	.	.
22.417	11214.2080	4984.39	.	.	.	Q.V	.	.
22.500	11247.8760	4888.63	.	.	.	Q.V	.	.
22.583	11280.8652	4790.10	.	.	.	Q.V	.	.
22.667	11313.1992	4694.90	.	.	.	Q.V	.	.
22.750	11344.8877	4601.10	.	.	.	Q.V	.	.
22.833	11375.9424	4509.18	.	.	.	Q.V	.	.
22.917	11406.4668	4432.12	.	.	.	Q.V	.	.
23.000	11436.5059	4361.63	.	.	.	Q.V	.	.
23.083	11466.0674	4292.35	.	.	.	Q.V	.	.
23.167	11495.1670	4225.24	.	.	.	Q.V	.	.
23.250	11523.8252	4161.13	.	.	.	Q.V	.	.

23.333	11552.0869	4103.62	.	.	.	Q	.	V.
23.417	11579.9639	4047.68	.	.	.	Q	.	V.
23.500	11607.4639	3992.93	.	.	.	Q	.	V.
23.583	11634.5947	3939.37	.	.	.	Q	.	V.
23.667	11661.3643	3886.90	.	.	.	Q	.	V.
23.750	11687.7803	3835.54	.	.	.	Q	.	V.
23.833	11713.8496	3785.28	.	.	.	Q	.	V.
23.917	11739.6494	3746.09	.	.	.	Q	.	V.
24.000	11765.2070	3710.98	.	.	.	Q	.	V.
24.083	11790.4893	3671.00	.	.	.	Q	.	V.
24.167	11815.4639	3626.34	.	.	.	Q	.	V.
24.250	11840.1445	3583.69	.	.	.	Q	.	V.
24.333	11864.5332	3541.22	.	.	.	Q	.	V.
24.417	11888.6191	3497.23	.	.	.	Q	.	V.
24.500	11912.3750	3449.29	.	.	.	Q	.	V.
24.583	11935.5410	3363.75	.	.	.	Q	.	V.
24.667	11958.3896	3317.67	.	.	.	Q	.	V.
24.750	11980.9199	3271.41	.	.	.	Q	.	V.
24.833	12003.0742	3216.85	.	.	.	Q	.	V.
24.917	12024.8047	3155.25	.	.	.	Q	.	V.
25.000	12046.0654	3087.07	.	.	.	Q	.	V.
25.083	12066.8105	3012.19	.	.	.	Q	.	V.
25.167	12087.0264	2935.27	.	.	.	Q	.	V.
25.250	12106.7266	2860.46	.	.	.	Q	.	V.
25.333	12125.8789	2780.94	.	.	.	Q	.	V.
25.417	12144.4121	2691.07	.	.	.	Q	.	V.
25.500	12162.4199	2614.76	.	.	.	Q	.	V.
25.583	12179.9121	2539.88	.	.	.	Q	.	V.
25.667	12196.8086	2453.37	.	.	.	Q	.	V.
25.750	12213.1260	2369.22	.	.	.	Q	.	V.
25.833	12228.9375	2295.78	.	.	.	Q	.	V.
25.917	12244.1865	2214.16	.	.	.	Q	.	V.
26.000	12258.8428	2128.05	.	.	.	Q	.	V.
26.083	12272.8203	2029.49	.	.	.	Q	.	V.
26.167	12286.2393	1948.40	.	.	.	Q	.	V.
26.250	12299.0596	1861.53	.	.	.	Q	.	V.
26.333	12311.1738	1759.06	.	.	.	Q	.	V.
26.417	12322.6055	1659.94	.	.	.	Q	.	V.
26.500	12333.2803	1549.95	.	.	.	Q	.	V.
26.583	12343.3369	1460.21	.	.	.	Q	.	V.
26.667	12352.8672	1383.86	.	.	.	Q	.	V.
26.750	12361.8809	1308.74	.	.	.	Q	.	V.
26.833	12370.2881	1220.67	.	.	.	Q	.	V.
26.917	12378.0098	1121.20	.	.	.	Q	.	V.
27.000	12385.1963	1043.55	.	.	.	Q	.	V.
27.083	12391.9043	974.01	.	.	.	Q	.	V.
27.167	12398.0967	899.14	.	.	.	Q	.	V.
27.250	12403.8574	836.40	.	.	.	Q	.	V.
27.333	12409.1729	771.82	.	.	.	Q	.	V.
27.417	12414.0879	713.69	.	.	.	Q	.	V.
27.500	12418.6826	667.14	.	.	.	Q	.	V.
27.583	12422.9629	621.54	.	.	.	Q	.	V.
27.667	12426.9229	574.96	.	.	.	Q	.	V.
27.750	12430.5664	529.02	.	.	.	Q	.	V.
27.833	12433.9180	486.71	.	.	.	Q	.	V.
27.917	12437.0000	447.52	.	.	.	Q	.	V.
28.000	12439.8340	411.55	.	.	.	Q	.	V.
28.083	12442.4531	380.23	.	.	.	Q	.	V.

28.167	12444.8760	351.84	Q	.	.	.	V.
28.250	12447.1328	327.67	Q	.	.	.	V.
28.333	12449.2256	303.88	Q	.	.	.	V.
28.417	12451.1670	281.91	Q	.	.	.	V.
28.500	12452.9619	260.57	Q	.	.	.	V.
28.583	12454.6123	239.65	Q	.	.	.	V.
28.667	12456.1289	220.26	Q	.	.	.	V.
28.750	12457.5146	201.19	Q	.	.	.	V.
28.833	12458.7734	182.76	Q	.	.	.	V.
28.917	12459.9355	168.79	Q	.	.	.	V.
29.000	12461.0098	155.93	Q	.	.	.	V.
29.083	12461.9961	143.15	Q	.	.	.	V.
29.167	12462.8945	130.47	Q	.	.	.	V.
29.250	12463.7148	119.06	Q	.	.	.	V.
29.333	12464.4785	110.85	Q	.	.	.	V.
29.417	12465.1865	102.85	Q	.	.	.	V.
29.500	12465.8398	94.93	Q	.	.	.	V.
29.583	12466.4395	87.04	Q	.	.	.	V.
29.667	12466.9854	79.22	Q	.	.	.	V.
29.750	12467.4775	71.45	Q	.	.	.	V.
29.833	12467.9170	63.80	Q	.	.	.	V.
29.917	12468.3281	59.64	Q	.	.	.	V.
30.000	12468.7236	57.49	Q	.	.	.	V.
30.083	12469.1045	55.35	Q	.	.	.	V.
30.167	12469.4717	53.26	Q	.	.	.	V.
30.250	12469.8242	51.16	Q	.	.	.	V.
30.333	12470.1621	49.08	Q	.	.	.	V.
30.417	12470.4863	47.05	Q	.	.	.	V.
30.500	12470.7959	44.99	Q	.	.	.	V.
30.583	12471.0918	42.96	Q	.	.	.	V.
30.667	12471.3740	40.95	Q	.	.	.	V.
30.750	12471.6426	38.96	Q	.	.	.	V.
30.833	12471.8975	36.98	Q	.	.	.	V.
30.917	12472.1387	35.01	Q	.	.	.	V.
31.000	12472.3662	33.05	Q	.	.	.	V.
31.083	12472.5811	31.13	Q	.	.	.	V.
31.167	12472.7822	29.20	Q	.	.	.	V.
31.250	12472.9697	27.28	Q	.	.	.	V.
31.333	12473.1445	25.38	Q	.	.	.	V.
31.417	12473.3066	23.49	Q	.	.	.	V.
31.500	12473.4551	21.61	Q	.	.	.	V.
31.583	12473.5908	19.75	Q	.	.	.	V.
31.667	12473.7139	17.90	Q	.	.	.	V.
31.750	12473.8242	16.06	Q	.	.	.	V.
31.833	12473.9219	14.23	Q	.	.	.	V.
31.917	12474.0078	12.41	Q	.	.	.	V.
32.000	12474.0811	10.61	Q	.	.	.	V.
32.083	12474.1416	8.81	Q	.	.	.	V.
32.167	12474.1904	7.03	Q	.	.	.	V.
32.250	12474.2266	5.26	Q	.	.	.	V.
32.333	12474.2510	3.50	Q	.	.	.	V.
32.417	12474.2627	1.75	Q	.	.	.	V
32.500	12474.2627	0.01	Q	.	.	.	V

-----  
TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
(Note: 100% of Peak Flow Rate estimate assumed to have  
an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
=====	=====
0%	1950.0
10%	1435.0
20%	1155.0
30%	645.0
40%	495.0
50%	405.0
60%	340.0
70%	285.0
80%	220.0
90%	145.0
=====	=====

END OF FLOODSCx ROUTING ANALYSIS

\*\*\*\*\*

FLOOD ROUTING ANALYSIS
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)
(c) Copyright 1989-2013 Advanced Engineering Software (aes)
Ver. 20.0 Release Date: 06/01/2013 License ID 1237

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*
\* RMV PA-3 ROMP AMENDMENT 2022 - NODE 134C \*
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*
\* 25-YR EV OCT 2022 ROKAMOTO \*

FILE NAME: EV2534CS.DAT
TIME/DATE OF STUDY: 10:40 10/25/2022

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 134.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<

\*\*\*\*\*

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 66607.102 ACRES
BASEFLOW = 0.000 CFS/SQUARE-MILE
\*USER ENTERED "LAG" TIME = 2.581 HOURS
VALLEY (DEVELOPED) S-GRAPH SELECTED
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.284
LOW LOSS FRACTION = 0.449
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.40
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.76
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 1.05
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 1.91
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 2.80
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 4.88

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:
5-MINUTE FACTOR = 0.293
30-MINUTE FACTOR = 0.352
1-HOUR FACTOR = 0.397
3-HOUR FACTOR = 0.740
6-HOUR FACTOR = 0.887
24-HOUR FACTOR = 0.933

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 3.229

UNIT HYDROGRAPH DETERMINATION

Table with 3 columns: INTERVAL NUMBER, "S" GRAPH MEAN VALUES, UNIT HYDROGRAPH ORDINATES (CFS). Rows 1-48.

49	85.178	10061.192
50	86.327	9249.837
51	87.323	8027.948
52	88.239	7372.570
53	89.002	6149.514
54	89.760	6109.321
55	90.467	5687.787
56	91.146	5475.883
57	91.824	5459.966
58	92.457	5101.855
59	93.073	4955.649
60	93.688	4953.252
61	94.202	4141.897
62	94.612	3303.746
63	95.022	3301.349
64	95.432	3303.807
65	95.841	3294.036
66	96.156	2536.270
67	96.409	2039.267
68	96.662	2039.267
69	96.915	2041.726
70	97.168	2036.870
71	97.422	2044.122
72	97.675	2039.267
73	97.923	1997.907
74	98.044	969.669
75	98.104	487.293
76	98.165	487.293
77	98.225	487.231
78	98.286	489.751
79	98.346	484.835
80	98.407	487.293
81	98.467	487.293
82	98.528	487.293
83	98.589	494.545
84	98.649	482.438
85	98.709	487.293
86	98.770	487.293
87	98.830	487.231
88	98.891	492.209
89	98.951	482.376
90	99.012	492.148
91	99.072	482.376
92	99.132	482.376
93	99.192	482.376
94	99.252	482.376
95	99.312	482.376
96	99.372	482.376
97	99.432	482.376
98	99.491	482.376
99	99.551	482.376
100	99.611	482.376
101	99.671	482.376
102	99.731	482.376
103	99.791	482.376
104	99.851	482.376
105	99.911	482.376
106	99.971	482.376

107

100.000

237.347

-----  
TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 11199.6299  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 14090.7256  
-----

2 4 - 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 FIVE-MINUTE UNIT INTERVALS (CFS)

(Note: Time indicated is at END of Each Unit Intervals)

TIME (HRS)	VOLUME (AF)	Q (CFS)	0.	4200.0	8400.0	12600.0	16800.0
0.083	0.0392	5.70	Q	.	.	.	.
0.167	0.1570	17.10	Q	.	.	.	.
0.250	0.3535	28.53	Q	.	.	.	.
0.333	0.6290	40.01	Q	.	.	.	.
0.417	0.9838	51.51	Q	.	.	.	.
0.500	1.4249	64.05	Q	.	.	.	.
0.583	1.9830	81.04	Q	.	.	.	.
0.667	2.6621	98.61	Q	.	.	.	.
0.750	3.4626	116.23	Q	.	.	.	.
0.833	4.4368	141.45	Q	.	.	.	.
0.917	5.6337	173.79	Q	.	.	.	.
1.000	7.0939	212.02	Q	.	.	.	.
1.083	8.8617	256.70	Q	.	.	.	.
1.167	10.9928	309.42	Q	.	.	.	.
1.250	13.4767	360.66	Q	.	.	.	.
1.333	16.3112	411.57	Q	.	.	.	.
1.417	19.5909	476.22	VQ	.	.	.	.
1.500	23.3053	539.33	VQ	.	.	.	.
1.583	27.3969	594.10	VQ	.	.	.	.
1.667	31.9019	654.12	VQ	.	.	.	.
1.750	36.9158	728.03	VQ	.	.	.	.
1.833	42.3908	794.96	VQ	.	.	.	.
1.917	48.2745	854.32	V Q	.	.	.	.
2.000	54.6449	924.98	V Q	.	.	.	.
2.083	61.5297	999.67	V Q	.	.	.	.
2.167	69.0340	1089.62	V Q	.	.	.	.
2.250	77.0421	1162.77	V Q	.	.	.	.
2.333	85.5671	1237.83	V Q	.	.	.	.
2.417	94.7659	1335.67	V Q	.	.	.	.
2.500	104.6137	1429.90	V Q	.	.	.	.
2.583	115.1765	1533.71	V Q	.	.	.	.
2.667	126.4184	1632.32	V Q	.	.	.	.
2.750	138.1920	1709.53	V Q	.	.	.	.
2.833	150.4765	1783.71	V Q	.	.	.	.
2.917	163.3435	1868.28	V Q	.	.	.	.
3.000	176.9159	1970.71	V Q	.	.	.	.
3.083	191.1270	2063.46	V Q	.	.	.	.
3.167	205.8578	2138.92	V Q	.	.	.	.
3.250	221.1216	2216.30	V Q	.	.	.	.
3.333	236.9047	2291.71	V Q	.	.	.	.
3.417	253.1612	2360.44	V Q	.	.	.	.
3.500	269.9033	2430.96	V Q	.	.	.	.
3.583	287.0589	2490.99	V Q	.	.	.	.
3.667	304.5747	2543.30	V Q	.	.	.	.
3.750	322.4525	2595.87	V Q	.	.	.	.
3.833	340.7064	2650.46	V Q	.	.	.	.
3.917	359.3279	2703.85	.V Q	.	.	.	.

4.000	378.2966	2754.25	.V	Q	.	.	.	.
4.083	397.5930	2801.84	.V	Q	.	.	.	.
4.167	417.1973	2846.54	.V	Q	.	.	.	.
4.250	437.0783	2886.73	.V	Q	.	.	.	.
4.333	457.2202	2924.60	.V	Q	.	.	.	.
4.417	477.5916	2957.94	.V	Q	.	.	.	.
4.500	498.1930	2991.31	.V	Q	.	.	.	.
4.583	519.0140	3023.21	.V	Q	.	.	.	.
4.667	540.0504	3054.48	.V	Q	.	.	.	.
4.750	561.3027	3085.83	.V	Q	.	.	.	.
4.833	582.7626	3115.99	.V	Q	.	.	.	.
4.917	604.4274	3145.72	.V	Q	.	.	.	.
5.000	626.2981	3175.63	.V	Q	.	.	.	.
5.083	648.3544	3202.57	.V	Q	.	.	.	.
5.167	670.5753	3226.48	.V	Q	.	.	.	.
5.250	692.9617	3250.50	.V	Q	.	.	.	.
5.333	715.5148	3274.71	.V	Q	.	.	.	.
5.417	738.2353	3299.01	.V	Q	.	.	.	.
5.500	761.1044	3320.59	.V	Q	.	.	.	.
5.583	784.1098	3340.39	.V	Q	.	.	.	.
5.667	807.2527	3360.36	.V	Q	.	.	.	.
5.750	830.5341	3380.45	.V	Q	.	.	.	.
5.833	853.9550	3400.71	.V	Q	.	.	.	.
5.917	877.5164	3421.12	.V	Q	.	.	.	.
6.000	901.2195	3441.69	.V	Q	.	.	.	.
6.083	925.0641	3462.23	.V	Q	.	.	.	.
6.167	949.0243	3479.03	.V	Q	.	.	.	.
6.250	973.0883	3494.09	.V	Q	.	.	.	.
6.333	997.2573	3509.33	.V	Q	.	.	.	.
6.417	1021.5320	3524.70	.V	Q	.	.	.	.
6.500	1045.9139	3540.25	.V	Q	.	.	.	.
6.583	1070.4037	3555.91	.V	Q	.	.	.	.
6.667	1095.0027	3571.77	.V	Q	.	.	.	.
6.750	1119.7118	3587.76	.V	Q	.	.	.	.
6.833	1144.5323	3603.94	.V	Q	.	.	.	.
6.917	1169.4655	3620.29	.V	Q	.	.	.	.
7.000	1194.5122	3636.79	.V	Q	.	.	.	.
7.083	1219.6737	3653.45	.V	Q	.	.	.	.
7.167	1244.9514	3670.32	.V	Q	.	.	.	.
7.250	1270.3463	3687.34	.V	Q	.	.	.	.
7.333	1295.8600	3704.59	.V	Q	.	.	.	.
7.417	1321.4933	3721.96	.V	Q	.	.	.	.
7.500	1347.2480	3739.59	.V	Q	.	.	.	.
7.583	1373.1250	3757.34	.V	Q	.	.	.	.
7.667	1399.1259	3775.32	.V	Q	.	.	.	.
7.750	1425.2517	3793.48	.V	Q	.	.	.	.
7.833	1451.5043	3811.87	.V	Q	.	.	.	.
7.917	1477.8846	3830.44	.V	Q	.	.	.	.
8.000	1504.3947	3849.25	.V	Q	.	.	.	.
8.083	1531.0355	3868.25	.V	Q	.	.	.	.
8.167	1557.8090	3887.51	.V	Q	.	.	.	.
8.250	1584.7164	3906.96	.V	Q	.	.	.	.
8.333	1611.7596	3926.68	.V	Q	.	.	.	.
8.417	1638.9401	3946.60	.V	Q	.	.	.	.
8.500	1666.2596	3966.80	.V	Q	.	.	.	.
8.583	1693.7197	3987.21	.V	Q	.	.	.	.
8.667	1721.3224	4007.91	.V	Q	.	.	.	.
8.750	1749.0692	4028.84	.V	Q	.	.	.	.

8.833	1776.9622	4050.06	.	V	Q.	.	.	.
8.917	1804.9965	4070.58	.	V	Q.	.	.	.
9.000	1833.1680	4090.51	.	V	Q.	.	.	.
9.083	1861.4784	4110.67	.	V	Q.	.	.	.
9.167	1889.9299	4131.16	.	V	Q.	.	.	.
9.250	1918.5243	4151.90	.	V	Q.	.	.	.
9.333	1947.2638	4172.98	.	V	Q.	.	.	.
9.417	1976.1503	4194.31	.	V	Q.	.	.	.
9.500	2005.1862	4216.01	.	V	Q	.	.	.
9.583	2034.3734	4237.99	.	V	Q	.	.	.
9.667	2063.7146	4260.33	.	V	Q	.	.	.
9.750	2093.2117	4282.97	.	V	Q	.	.	.
9.833	2122.8674	4306.00	.	V	Q	.	.	.
9.917	2152.6838	4329.35	.	V	Q	.	.	.
10.000	2182.6638	4353.10	.	V	Q	.	.	.
10.083	2212.8096	4377.17	.	V	Q	.	.	.
10.167	2243.1243	4401.68	.	V	Q	.	.	.
10.250	2273.6101	4426.53	.	V	Q	.	.	.
10.333	2304.2700	4451.84	.	V	Q	.	.	.
10.417	2335.1069	4477.50	.	V	Q	.	.	.
10.500	2366.1238	4503.66	.	V	Q	.	.	.
10.583	2397.3235	4530.19	.	V	Q	.	.	.
10.667	2428.7095	4557.23	.	V	Q	.	.	.
10.750	2460.2844	4584.68	.	V	Q	.	.	.
10.833	2492.0520	4612.67	.	V	Q	.	.	.
10.917	2524.0154	4641.09	.	V	.Q	.	.	.
11.000	2556.1785	4670.08	.	V	.Q	.	.	.
11.083	2588.5444	4699.52	.	V	.Q	.	.	.
11.167	2621.1172	4729.57	.	V	.Q	.	.	.
11.250	2653.9004	4760.12	.	V	.Q	.	.	.
11.333	2686.8982	4791.29	.	V	.Q	.	.	.
11.417	2720.1145	4823.00	.	V	.Q	.	.	.
11.500	2753.5537	4855.38	.	V	.Q	.	.	.
11.583	2787.2197	4888.32	.	V	.Q	.	.	.
11.667	2821.1177	4921.99	.	V	.Q	.	.	.
11.750	2855.2517	4956.25	.	V	.Q	.	.	.
11.833	2889.6270	4991.29	.	V	.Q	.	.	.
11.917	2924.2480	5026.97	.	V	.Q	.	.	.
12.000	2959.1206	5063.48	.	V	.Q	.	.	.
12.083	2994.3215	5111.17	.	V	.Q	.	.	.
12.167	3029.9287	5170.18	.	V	.Q	.	.	.
12.250	3065.9468	5229.83	.	V	.Q	.	.	.
12.333	3102.3813	5290.30	.	V	.Q	.	.	.
12.417	3139.2371	5351.46	.	V	.Q	.	.	.
12.500	3176.5327	5415.34	.	V	.Q	.	.	.
12.583	3214.3296	5488.09	.	V	.Q	.	.	.
12.667	3252.6404	5562.71	.	V	.Q	.	.	.
12.750	3291.4700	5638.07	.	V	.Q	.	.	.
12.833	3330.9209	5728.27	.	V	.Q	.	.	.
12.917	3371.0876	5832.21	.	V	.Q	.	.	.
13.000	3412.0498	5947.70	.	V	.Q	.	.	.
13.083	3453.8923	6075.53	.	V	.Q	.	.	.
13.167	3496.7214	6218.77	.	V	.Q	.	.	.
13.250	3540.5203	6359.61	.	V	.Q	.	.	.
13.333	3585.2883	6500.32	.	V	.Q	.	.	.
13.417	3631.2026	6666.76	.	V	.Q	.	.	.
13.500	3678.2466	6830.79	.	V	.Q	.	.	.
13.583	3726.3159	6979.67	.	V	.Q	.	.	.

13.667	3775.4817	7138.85	.	V	Q	.	.	.
13.750	3825.9224	7323.98	.	V	Q	.	.	.
13.833	3877.5530	7496.75	.	.V	Q	.	.	.
13.917	3930.2788	7655.80	.	.V	Q	.	.	.
14.000	3984.2488	7836.42	.	.V	Q	.	.	.
14.083	4039.5828	8034.49	.	.V	Q.	.	.	.
14.167	4096.5430	8270.63	.	.V	Q.	.	.	.
14.250	4154.9126	8475.25	.	.V	Q	.	.	.
14.333	4214.7139	8683.15	.	.V	Q	.	.	.
14.417	4276.2339	8932.73	.	.V	.Q	.	.	.
14.500	4339.4355	9176.88	.	.V	.Q	.	.	.
14.583	4404.4868	9445.48	.	.V	.Q	.	.	.
14.667	4471.3228	9704.61	.	.V	.Q	.	.	.
14.750	4539.6636	9923.11	.	.V	.Q	.	.	.
14.833	4609.5557	10148.32	.	.V	.Q	.	.	.
14.917	4681.2046	10403.45	.	.V	.Q	.	.	.
15.000	4754.8940	10699.73	.	.V	.Q	.	.	.
15.083	4830.5581	10986.40	.	.V	.Q	.	.	.
15.167	4908.0508	11251.93	.	.V	.Q	.	.	.
15.250	4987.3545	11514.93	.	.V	.Q	.	.	.
15.333	5068.4165	11770.19	.	.V	.Q	.	.	.
15.417	5151.1948	12019.41	.	.V	.Q	.	.	.
15.500	5235.5786	12252.52	.	.V	.Q	.	.	.
15.583	5321.3237	12450.19	.	.V	.Q	.	.	.
15.667	5408.3896	12642.00	.	.V	.Q	.	.	.
15.750	5496.9014	12851.91	.	.V	.Q	.	.	.
15.833	5586.7480	13045.76	.	.V	.Q	.	.	.
15.917	5677.7871	13218.88	.	.V	.Q	.	.	.
16.000	5770.1997	13418.32	.	.V	.Q	.	.	.
16.083	5864.7373	13726.89	.	.V	.Q	.	.	.
16.167	5961.2949	14020.20	.	.V	.Q	.	.	.
16.250	6058.6616	14137.64	.	.V	.Q	.	.	.
16.333	6156.7178	14237.76	.	.V	.Q	.	.	.
16.417	6255.6895	14370.69	.	.V	.Q	.	.	.
16.500	6355.6304	14511.43	.	.V	.Q	.	.	.
16.583	6457.0640	14728.19	.	.V	.Q	.	.	.
16.667	6559.4355	14864.37	.	.V	.Q	.	.	.
16.750	6662.3066	14936.91	.	.V	.Q	.	.	.
16.833	6766.6865	15155.96	.	.V	.Q	.	.	.
16.917	6872.8696	15417.76	.	.V	.Q	.	.	.
17.000	6980.8447	15677.96	.	.V	.Q	.	.	.
17.083	7090.0879	15862.07	.	.V	.Q	.	.	.
17.167	7200.5840	16044.04	.	.V	.Q	.	.	.
17.250	7311.4219	16093.63	.	.V	.Q	.	.	.
17.333	7422.6968	16157.14	.	.V	.Q	.	.	.
17.417	7535.9219	16440.29	.	.V	.Q	.	.	.
17.500	7648.8740	16400.65	.	.V	.Q	.	.	.
17.583	7761.0322	16285.37	.	.V	.Q	.	.	.
17.667	7874.0781	16414.26	.	.V	.Q	.	.	.
17.750	7988.6929	16642.03	.	.V	.Q	.	.	.
17.833	8102.0747	16463.05	.	.V	.Q	.	.	.
17.917	8214.1836	16278.14	.	.V	.Q	.	.	.
18.000	8327.6455	16474.65	.	.V	.Q	.	.	.
18.083	8441.7256	16564.41	.	.V	.Q	.	.	.
18.167	8557.3418	16787.41	.	.V	.Q	.	.	.
18.250	8670.0381	16363.50	.	.V	.Q	.	.	.
18.333	8782.4512	16322.38	.	.V	.Q	.	.	.
18.417	8897.2402	16667.37	.	.V	.Q	.	.	.

18.500	9011.4111	16577.65	.	.	.	V	.	Q.
18.583	9126.0781	16649.71	.	.	.	V	.	Q.
18.667	9238.8223	16370.50	.	.	.	V	.	Q.
18.750	9348.1641	15876.46	.	.	.	V	.	Q.
18.833	9456.8994	15788.38	.	.	.	V	.	Q.
18.917	9567.1279	16005.24	.	.	.	V	.	Q.
19.000	9679.2676	16282.74	.	.	.	V	.	Q.
19.083	9788.9844	15930.83	.	.	.	V	.	Q.
19.167	9894.9844	15391.13	.	.	.	V	.	Q.
19.250	10000.1865	15275.40	.	.	.	V	.	Q.
19.333	10104.3721	15127.75	.	.	.	V	.	Q.
19.417	10206.4248	14818.05	.	.	.	V	.	Q.
19.500	10307.0889	14616.47	.	.	.	V	.	Q.
19.583	10404.7998	14187.63	.	.	.	V	.	Q.
19.667	10500.0811	13834.80	.	.	.	V	.	Q.
19.750	10594.0752	13647.91	.	.	.	V	.	Q.
19.833	10687.1162	13509.51	.	.	.	V	.	Q.
19.917	10778.5791	13280.41	.	.	.	V	.	Q.
20.000	10867.7051	12941.03	.	.	.	Q	.	.
20.083	10954.5176	12605.19	.	.	.	QV	.	.
20.167	11038.9561	12260.44	.	.	.	Q.V	.	.
20.250	11120.9697	11908.37	.	.	.	Q.V	.	.
20.333	11200.7998	11591.27	.	.	.	Q.V	.	.
20.417	11277.9971	11209.02	.	.	.	Q.V	.	.
20.500	11353.2129	10921.31	.	.	.	Q.V	.	.
20.583	11426.1826	10595.20	.	.	.	Q.V	.	.
20.667	11497.1387	10302.79	.	.	.	Q.V	.	.
20.750	11566.3740	10053.02	.	.	.	Q.V	.	.
20.833	11633.7920	9789.09	.	.	.	Q.V	.	.
20.917	11699.3525	9519.35	.	.	.	Q.V	.	.
21.000	11762.8428	9218.84	.	.	.	Q.V	.	.
21.083	11823.9980	8879.76	.	.	.	Q.V	.	.
21.167	11883.1045	8582.19	.	.	.	Q.V	.	.
21.250	11940.6338	8353.28	.	.	.	Q.V	.	.
21.333	11996.6328	8131.01	.	.	.	Q.V	.	.
21.417	12051.1621	7917.69	.	.	.	Q.V	.	.
21.500	12103.8564	7651.15	.	.	.	Q.V	.	.
21.583	12155.0684	7435.97	.	.	.	Q.V	.	.
21.667	12205.1709	7274.94	.	.	.	Q.V	.	.
21.750	12254.1738	7115.26	.	.	.	Q.V	.	.
21.833	12302.0488	6951.41	.	.	.	Q.V	.	.
21.917	12348.7959	6787.68	.	.	.	Q.V	.	.
22.000	12394.4092	6623.11	.	.	.	Q.V	.	.
22.083	12438.8906	6458.67	.	.	.	Q.V	.	.
22.167	12481.8398	6236.20	.	.	.	Q.V	.	.
22.250	12523.6465	6070.27	.	.	.	Q.V	.	.
22.333	12564.6104	5947.96	.	.	.	Q.V	.	.
22.417	12604.8115	5837.25	.	.	.	Q.V	.	.
22.500	12644.2432	5725.54	.	.	.	Q.V	.	.
22.583	12682.9238	5616.41	.	.	.	Q.V	.	.
22.667	12720.8721	5510.13	.	.	.	Q.V	.	.
22.750	12758.0947	5404.69	.	.	.	Q.V	.	.
22.833	12794.6133	5302.55	.	.	.	Q.V	.	.
22.917	12830.4336	5201.09	.	.	.	Q.V	.	.
23.000	12865.5410	5097.58	.	.	.	Q.V	.	.
23.083	12899.9922	5002.24	.	.	.	Q.V	.	.
23.167	12933.8779	4920.17	.	.	.	Q.V	.	.
23.250	12967.2305	4842.83	.	.	.	Q.V	.	.

23.333	13000.0625	4767.23	.	.	.	.Q	.	V
23.417	13032.3779	4692.15	.	.	.	.Q	.	V
23.500	13064.2314	4625.18	.	.	.	.Q	.	V
23.583	13095.6484	4561.69	.	.	.	Q	.	V
23.667	13126.6426	4500.33	.	.	.	Q	.	V
23.750	13157.2217	4440.11	.	.	.	Q	.	V
23.833	13187.3955	4381.24	.	.	.	Q	.	V
23.917	13217.1709	4323.34	.	.	.	Q	.	V
24.000	13246.5557	4266.66	.	.	.	Q	.	V
24.083	13275.5195	4205.62	.	.	.	Q	.	V
24.167	13304.0820	4147.23	.	.	.	Q.	.	V
24.250	13332.2891	4095.61	.	.	.	Q.	.	V
24.333	13360.1611	4047.05	.	.	.	Q.	.	V
24.417	13387.7031	3999.15	.	.	.	Q.	.	V
24.500	13414.9121	3950.68	.	.	.	Q.	.	V
24.583	13441.7656	3899.14	.	.	.	Q.	.	V
24.667	13468.2676	3848.10	.	.	.	Q.	.	V
24.750	13494.4131	3796.34	.	.	.	Q.	.	V
24.833	13520.1377	3735.16	.	.	.	Q.	.	V
24.917	13545.2725	3649.51	.	.	.	Q.	.	V
25.000	13569.8027	3561.73	.	.	.	Q.	.	V
25.083	13593.8174	3486.89	.	.	.	Q.	.	V
25.167	13617.2715	3405.53	.	.	.	Q.	.	V
25.250	13640.1719	3325.09	.	.	.	Q.	.	V
25.333	13662.5127	3243.82	.	.	.	Q.	.	V
25.417	13684.2041	3149.59	.	.	.	Q.	.	V
25.500	13705.2627	3057.66	.	.	.	Q.	.	V
25.583	13725.7510	2974.95	.	.	.	Q.	.	V
25.667	13745.6387	2887.74	.	.	.	Q.	.	V
25.750	13764.8359	2787.45	.	.	.	Q.	.	V
25.833	13783.3965	2695.00	.	.	.	Q.	.	V
25.917	13801.3896	2612.60	.	.	.	Q.	.	V
26.000	13818.7549	2521.36	.	.	.	Q.	.	V
26.083	13835.4707	2427.16	.	.	.	Q.	.	V
26.167	13851.4404	2318.79	.	.	.	Q.	.	V
26.250	13866.7871	2228.36	.	.	.	Q.	.	V
26.333	13881.5049	2137.05	.	.	.	Q.	.	V
26.417	13895.4443	2023.99	.	.	.	Q.	.	V
26.500	13908.6377	1915.71	.	.	.	Q.	.	V
26.583	13921.0273	1798.99	.	.	.	Q.	.	V
26.667	13932.6572	1688.64	.	.	.	Q.	.	V
26.750	13943.6816	1600.78	.	.	.	Q.	.	V
26.833	13954.1289	1516.88	.	.	.	Q.	.	V
26.917	13963.9443	1425.22	.	.	.	Q.	.	V
27.000	13973.0244	1318.37	.	.	.	Q.	.	V
27.083	13981.4424	1222.29	.	.	.	Q.	.	V
27.167	13989.3252	1144.52	.	.	.	Q.	.	V
27.250	13996.6650	1065.67	.	.	.	Q.	.	V
27.333	14003.4805	989.65	.	.	.	Q.	.	V
27.417	14009.8242	921.13	.	.	.	Q.	.	V
27.500	14015.6895	851.59	.	.	.	Q.	.	V
27.583	14021.1523	793.26	.	.	.	Q.	.	V
27.667	14026.2715	743.32	.	.	.	Q.	.	V
27.750	14031.0488	693.68	.	.	.	Q.	.	V
27.833	14035.4746	642.62	.	.	.	Q.	.	V
27.917	14039.5605	593.32	.	.	.	Q.	.	V
28.000	14043.3320	547.59	.	.	.	Q.	.	V
28.083	14046.8115	505.18	.	.	.	Q.	.	V

28.167	14050.0225	466.18	.Q	.	.	.	V.
28.250	14052.9990	432.13	.Q	.	.	.	V.
28.333	14055.7598	400.84	Q	.	.	.	V.
28.417	14058.3389	374.45	Q	.	.	.	V.
28.500	14060.7383	348.41	Q	.	.	.	V.
28.583	14062.9707	324.18	Q	.	.	.	V.
28.667	14065.0430	300.93	Q	.	.	.	V.
28.750	14066.9570	277.91	Q	.	.	.	V.
28.833	14068.7227	256.42	Q	.	.	.	V.
28.917	14070.3457	235.65	Q	.	.	.	V.
29.000	14071.8262	215.03	Q	.	.	.	V.
29.083	14073.1875	197.66	Q	.	.	.	V.
29.167	14074.4521	183.62	Q	.	.	.	V.
29.250	14075.6211	169.69	Q	.	.	.	V.
29.333	14076.6943	155.85	Q	.	.	.	V.
29.417	14077.6729	142.15	Q	.	.	.	V.
29.500	14078.5781	131.44	Q	.	.	.	V.
29.583	14079.4229	122.70	Q	.	.	.	V.
29.667	14080.2080	114.03	Q	.	.	.	V.
29.750	14080.9336	105.41	Q	.	.	.	V.
29.833	14081.6006	96.88	Q	.	.	.	V.
29.917	14082.2090	88.37	Q	.	.	.	V.
30.000	14082.7598	79.94	Q	.	.	.	V.
30.083	14083.2539	71.73	Q	.	.	.	V.
30.167	14083.7188	67.51	Q	.	.	.	V.
30.250	14084.1680	65.16	Q	.	.	.	V.
30.333	14084.6006	62.84	Q	.	.	.	V.
30.417	14085.0176	60.53	Q	.	.	.	V.
30.500	14085.4189	58.23	Q	.	.	.	V.
30.583	14085.8047	55.98	Q	.	.	.	V.
30.667	14086.1748	53.73	Q	.	.	.	V.
30.750	14086.5293	51.50	Q	.	.	.	V.
30.833	14086.8691	49.28	Q	.	.	.	V.
30.917	14087.1934	47.06	Q	.	.	.	V.
31.000	14087.5029	44.90	Q	.	.	.	V.
31.083	14087.7969	42.74	Q	.	.	.	V.
31.167	14088.0762	40.59	Q	.	.	.	V.
31.250	14088.3408	38.46	Q	.	.	.	V.
31.333	14088.5908	36.33	Q	.	.	.	V.
31.417	14088.8271	34.25	Q	.	.	.	V.
31.500	14089.0488	32.15	Q	.	.	.	V.
31.583	14089.2559	30.09	Q	.	.	.	V.
31.667	14089.4492	28.06	Q	.	.	.	V.
31.750	14089.6289	26.04	Q	.	.	.	V.
31.833	14089.7939	24.03	Q	.	.	.	V.
31.917	14089.9453	22.03	Q	.	.	.	V.
32.000	14090.0830	20.05	Q	.	.	.	V.
32.083	14090.2080	18.08	Q	.	.	.	V.
32.167	14090.3193	16.13	Q	.	.	.	V.
32.250	14090.4170	14.18	Q	.	.	.	V.
32.333	14090.5010	12.25	Q	.	.	.	V.
32.417	14090.5723	10.33	Q	.	.	.	V.
32.500	14090.6299	8.43	Q	.	.	.	V.
32.583	14090.6748	6.53	Q	.	.	.	V.
32.667	14090.7070	4.65	Q	.	.	.	V.
32.750	14090.7266	2.77	Q	.	.	.	V
32.833	14090.7324	0.91	Q	.	.	.	V

TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
 (Note: 100% of Peak Flow Rate estimate assumed to have  
 an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
0%	1970.0
10%	1440.0
20%	1175.0
30%	665.0
40%	510.0
50%	420.0
60%	355.0
70%	300.0
80%	230.0
90%	155.0

=====  
 END OF FLOODSCx ROUTING ANALYSIS  
 =====



\*\*\*\*\*

FLOOD ROUTING ANALYSIS  
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)  
(c) Copyright 1989-2013 Advanced Engineering Software (aes)  
Ver. 20.0 Release Date: 06/01/2013 License ID 1237

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*  
\* RMV PA-3 ROMP AMENDMENT 2022 - NODE 134T \*  
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*  
\* 25-YR EV OCT 2022 ROKAMOTO \*  
\*\*\*\*\*

FILE NAME: EV2534TS.DAT  
TIME/DATE OF STUDY: 10:39 10/25/2022

\*\*\*\*\*

FLOW PROCESS FROM NODE 13500.00 TO NODE 134.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<

=====

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 3859.700 ACRES  
BASEFLOW = 0.000 CFS/SQUARE-MILE  
\*USER ENTERED "LAG" TIME = 1.350 HOURS  
VALLEY (DEVELOPED) S-GRAPH SELECTED  
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.284  
LOW LOSS FRACTION = 0.463  
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.34  
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.72  
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 0.95  
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 1.59  
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 2.20  
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 3.68

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:  
5-MINUTE FACTOR = 0.828  
30-MINUTE FACTOR = 0.828  
1-HOUR FACTOR = 0.828  
3-HOUR FACTOR = 0.974  
6-HOUR FACTOR = 0.987  
24-HOUR FACTOR = 0.992

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES  
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 6.173

===== UNIT HYDROGRAPH DETERMINATION =====

INTERVAL NUMBER	"S" GRAPH MEAN VALUES	UNIT HYDROGRAPH ORDINATES (CFS)
1	0.353	164.650
2	1.058	329.300
3	1.769	331.638
4	2.714	441.214
5	3.829	520.304
6	5.610	831.701
7	8.146	1183.457
8	11.272	1459.477
9	14.675	1588.138
10	18.342	1712.027
11	22.143	1773.875
12	26.136	1863.946
13	30.204	1898.763
14	35.128	2298.813
15	39.722	2144.246
16	45.411	2655.306
17	51.285	2742.112
18	55.755	2086.605
19	61.051	2471.806
20	66.050	2333.457
21	70.363	2013.331
22	74.265	1821.628
23	77.506	1512.705
24	80.278	1293.773
25	83.042	1290.464
26	85.470	1133.359
27	87.474	935.449
28	89.059	739.832
29	90.456	652.065
30	91.751	604.468
31	92.957	562.563
32	94.059	514.489
33	94.872	379.571
34	95.655	365.689
35	96.272	287.633
36	96.756	226.041
37	97.240	225.973
38	97.724	225.970
39	98.049	151.678
40	98.165	54.352
41	98.281	54.056
42	98.397	54.202
43	98.513	53.907
44	98.629	54.056
45	98.745	54.202
46	98.860	53.761
47	98.976	54.202
48	99.092	54.056

49	99.208	54.056
50	99.323	54.056
51	99.439	54.056
52	99.555	54.056
53	99.671	54.056
54	99.787	54.056
55	99.902	54.056
56	100.000	45.538

-----  
TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 499.3369  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 674.7775  
-----

=====  
2 4 - 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 FIVE-MINUTE UNIT INTERVALS (CFS)  
(Note: Time indicated is at END of Each Unit Intervals)

TIME (HRS)	VOLUME (AF)	Q (CFS)	0.	450.0	900.0	1350.0	1800.0
0.083	0.0029	0.42	Q	.	.	.	.
0.167	0.0116	1.26	Q	.	.	.	.
0.250	0.0262	2.11	Q	.	.	.	.
0.333	0.0485	3.25	Q	.	.	.	.
0.417	0.0801	4.59	Q	.	.	.	.
0.500	0.1264	6.73	Q	.	.	.	.
0.583	0.1937	9.77	Q	.	.	.	.
0.667	0.2869	13.53	Q	.	.	.	.
0.750	0.4083	17.63	Q	.	.	.	.
0.833	0.5603	22.06	Q	.	.	.	.
0.917	0.7439	26.66	Q	.	.	.	.
1.000	0.9610	31.51	Q	.	.	.	.
1.083	1.2121	36.47	Q	.	.	.	.
1.167	1.5045	42.46	Q	.	.	.	.
1.250	1.8356	48.08	VQ	.	.	.	.
1.333	2.2146	55.02	VQ	.	.	.	.
1.417	2.6430	62.21	VQ	.	.	.	.
1.500	3.1095	67.74	VQ	.	.	.	.
1.583	3.6211	74.29	VQ	.	.	.	.
1.667	4.1755	80.50	VQ	.	.	.	.
1.750	4.7672	85.91	VQ	.	.	.	.
1.833	5.3929	90.85	V Q	.	.	.	.
1.917	6.0473	95.03	V Q	.	.	.	.
2.000	6.7268	98.66	V Q	.	.	.	.
2.083	7.4313	102.29	V Q	.	.	.	.
2.167	8.1581	105.54	V Q	.	.	.	.
2.250	8.9039	108.29	V Q	.	.	.	.
2.333	9.6654	110.56	V Q	.	.	.	.
2.417	10.4409	112.61	V Q	.	.	.	.
2.500	11.2298	114.55	V Q	.	.	.	.
2.583	12.0314	116.39	V Q	.	.	.	.
2.667	12.8449	118.12	V Q	.	.	.	.
2.750	13.6679	119.51	V Q	.	.	.	.
2.833	14.5004	120.87	V Q	.	.	.	.
2.917	15.3408	122.04	V Q	.	.	.	.
3.000	16.1884	123.06	V Q	.	.	.	.
3.083	17.0429	124.08	.VQ	.	.	.	.
3.167	17.9046	125.11	.VQ	.	.	.	.
3.250	18.7721	125.96	.VQ	.	.	.	.
3.333	19.6437	126.56	.VQ	.	.	.	.
3.417	20.5196	127.17	.VQ	.	.	.	.
3.500	21.3997	127.79	.VQ	.	.	.	.
3.583	22.2840	128.41	.VQ	.	.	.	.
3.667	23.1726	129.03	.VQ	.	.	.	.
3.750	24.0656	129.66	.VQ	.	.	.	.
3.833	24.9629	130.29	.VQ	.	.	.	.
3.917	25.8647	130.93	.VQ	.	.	.	.

4.000	26.7709	131.58	.VQ	.	.	.	.
4.083	27.6816	132.23	.VQ	.	.	.	.
4.167	28.5968	132.89	.VQ	.	.	.	.
4.250	29.5165	133.55	.VQ	.	.	.	.
4.333	30.4409	134.22	.VQ	.	.	.	.
4.417	31.3699	134.89	.VQ	.	.	.	.
4.500	32.3036	135.57	.V Q	.	.	.	.
4.583	33.2421	136.26	.V Q	.	.	.	.
4.667	34.1851	136.93	. VQ	.	.	.	.
4.750	35.1321	137.49	. VQ	.	.	.	.
4.833	36.0829	138.06	. VQ	.	.	.	.
4.917	37.0377	138.63	. VQ	.	.	.	.
5.000	37.9965	139.22	. VQ	.	.	.	.
5.083	38.9593	139.80	. VQ	.	.	.	.
5.167	39.9262	140.39	. VQ	.	.	.	.
5.250	40.8972	140.99	. VQ	.	.	.	.
5.333	41.8724	141.60	. VQ	.	.	.	.
5.417	42.8518	142.21	. VQ	.	.	.	.
5.500	43.8355	142.83	. VQ	.	.	.	.
5.583	44.8235	143.46	. VQ	.	.	.	.
5.667	45.8159	144.09	. VQ	.	.	.	.
5.750	46.8127	144.73	. VQ	.	.	.	.
5.833	47.8140	145.38	. VQ	.	.	.	.
5.917	48.8197	146.04	. VQ	.	.	.	.
6.000	49.8301	146.70	. VQ	.	.	.	.
6.083	50.8451	147.38	. Q	.	.	.	.
6.167	51.8648	148.06	. Q	.	.	.	.
6.250	52.8892	148.75	. Q	.	.	.	.
6.333	53.9184	149.44	. Q	.	.	.	.
6.417	54.9525	150.15	. Q	.	.	.	.
6.500	55.9915	150.86	. Q	.	.	.	.
6.583	57.0355	151.59	. Q	.	.	.	.
6.667	58.0845	152.32	. Q	.	.	.	.
6.750	59.1386	153.06	. Q	.	.	.	.
6.833	60.1979	153.81	. Q	.	.	.	.
6.917	61.2625	154.57	. Q	.	.	.	.
7.000	62.3323	155.34	. Q	.	.	.	.
7.083	63.4076	156.12	. Q	.	.	.	.
7.167	64.4883	156.92	. Q	.	.	.	.
7.250	65.5745	157.72	. Q	.	.	.	.
7.333	66.6663	158.53	. Q	.	.	.	.
7.417	67.7637	159.35	. QV	.	.	.	.
7.500	68.8670	160.19	. QV	.	.	.	.
7.583	69.9760	161.04	. QV	.	.	.	.
7.667	71.0910	161.89	. QV	.	.	.	.
7.750	72.2120	162.76	. QV	.	.	.	.
7.833	73.3390	163.65	. QV	.	.	.	.
7.917	74.4722	164.54	. QV	.	.	.	.
8.000	75.6117	165.45	. QV	.	.	.	.
8.083	76.7575	166.37	. QV	.	.	.	.
8.167	77.9098	167.31	. QV	.	.	.	.
8.250	79.0686	168.26	. QV	.	.	.	.
8.333	80.2340	169.22	. QV	.	.	.	.
8.417	81.4062	170.20	. QV	.	.	.	.
8.500	82.5851	171.19	. QV	.	.	.	.
8.583	83.7711	172.20	. QV	.	.	.	.
8.667	84.9641	173.22	. Q V	.	.	.	.
8.750	86.1642	174.26	. Q V	.	.	.	.

8.833	87.3716	175.32	. Q V	.	.	.	.
8.917	88.5864	176.39	. Q V	.	.	.	.
9.000	89.8087	177.48	. Q V	.	.	.	.
9.083	91.0387	178.59	. Q V	.	.	.	.
9.167	92.2764	179.71	. Q V	.	.	.	.
9.250	93.5219	180.86	. QV	.	.	.	.
9.333	94.7756	182.02	. QV	.	.	.	.
9.417	96.0373	183.21	. QV	.	.	.	.
9.500	97.3074	184.41	. QV	.	.	.	.
9.583	98.5859	185.64	. QV	.	.	.	.
9.667	99.8730	186.89	. QV	.	.	.	.
9.750	101.1688	188.15	. QV	.	.	.	.
9.833	102.4735	189.45	. Q V	.	.	.	.
9.917	103.7873	190.76	. Q V	.	.	.	.
10.000	105.1103	192.10	. Q V	.	.	.	.
10.083	106.4427	193.47	. Q V	.	.	.	.
10.167	107.7847	194.86	. Q V	.	.	.	.
10.250	109.1365	196.27	. Q V	.	.	.	.
10.333	110.4982	197.72	. Q V	.	.	.	.
10.417	111.8700	199.19	. Q V	.	.	.	.
10.500	113.2522	200.70	. Q V	.	.	.	.
10.583	114.6450	202.23	. Q V	.	.	.	.
10.667	116.0485	203.79	. Q V	.	.	.	.
10.750	117.4630	205.38	. Q V	.	.	.	.
10.833	118.8887	207.01	. Q V	.	.	.	.
10.917	120.3259	208.67	. Q V	.	.	.	.
11.000	121.7747	210.38	. Q V	.	.	.	.
11.083	123.2355	212.11	. Q V	.	.	.	.
11.167	124.7085	213.88	. Q V	.	.	.	.
11.250	126.1940	215.69	. Q V	.	.	.	.
11.333	127.6923	217.55	. Q V	.	.	.	.
11.417	129.2036	219.44	. Q V	.	.	.	.
11.500	130.7283	221.39	. Q V	.	.	.	.
11.583	132.2667	223.37	. Q V	.	.	.	.
11.667	133.8191	225.41	. Q V	.	.	.	.
11.750	135.3858	227.49	. Q V	.	.	.	.
11.833	136.9672	229.62	. Q V	.	.	.	.
11.917	138.5637	231.81	. Q V	.	.	.	.
12.000	140.1757	234.06	. Q V	.	.	.	.
12.083	141.8055	236.66	. Q V	.	.	.	.
12.167	143.4558	239.62	. Q V	.	.	.	.
12.250	145.1270	242.65	. Q V	.	.	.	.
12.333	146.8209	245.96	. Q V	.	.	.	.
12.417	148.5391	249.47	. Q V	.	.	.	.
12.500	150.2859	253.64	. Q V	.	.	.	.
12.583	152.0663	258.52	. Q V	.	.	.	.
12.667	153.8845	264.00	. Q V	.	.	.	.
12.750	155.7426	269.79	. Q V	.	.	.	.
12.833	157.6428	275.92	. Q V	.	.	.	.
12.917	159.5867	282.25	. Q V	.	.	.	.
13.000	161.5760	288.86	. Q V	.	.	.	.
13.083	163.6121	295.63	. Q V	.	.	.	.
13.167	165.7007	303.26	. Q V	.	.	.	.
13.250	167.8406	310.72	. Q V	.	.	.	.
13.333	170.0394	319.26	. Q V	.	.	.	.
13.417	172.2989	328.09	. Q V	.	.	.	.
13.500	174.6121	335.87	. Q V	.	.	.	.
13.583	176.9847	344.50	. Q V	.	.	.	.

13.667	179.4162	353.05	.	Q	V	.	.	.
13.750	181.9036	361.18	.	Q	V	.	.	.
13.833	184.4460	369.15	.	Q	V	.	.	.
13.917	187.0405	376.72	.	Q	.V	.	.	.
14.000	189.6859	384.12	.	Q	.V	.	.	.
14.083	192.3870	392.19	.	Q	.V	.	.	.
14.167	195.1468	400.72	.	Q	.V	.	.	.
14.250	197.9643	409.11	.	Q	.V	.	.	.
14.333	200.8413	417.74	.	Q	.V	.	.	.
14.417	203.7800	426.70	.	Q	.V	.	.	.
14.500	206.7884	436.82	.	Q	.V	.	.	.
14.583	209.8752	448.19	.	Q	.V	.	.	.
14.667	213.0478	460.66	.	Q	V	.	.	.
14.750	216.3095	473.60	.	Q	V	.	.	.
14.833	219.6655	487.29	.	Q	V	.	.	.
14.917	223.1187	501.41	.	.Q	V	.	.	.
15.000	226.6737	516.18	.	.Q	V	.	.	.
15.083	230.3343	531.52	.	.Q	V	.	.	.
15.167	234.1129	548.66	.	.	QV	.	.	.
15.250	238.0095	565.78	.	.	Q	V	.	.
15.333	242.0384	584.99	.	.	Q	V	.	.
15.417	246.1979	603.96	.	.	QV	.	.	.
15.500	250.4725	620.68	.	.	QV	.	.	.
15.583	254.8774	639.59	.	.	QV	.	.	.
15.667	259.4135	658.64	.	.	QV	.	.	.
15.750	264.0824	677.94	.	.	Q	.	.	.
15.833	268.8809	696.74	.	.	Q	.	.	.
15.917	273.8177	716.82	.	.	QV	.	.	.
16.000	278.9383	743.51	.	.	Q	.	.	.
16.083	284.4912	806.28	.	.	VQ	.	.	.
16.167	290.4594	866.58	.	.	V	Q.	.	.
16.250	296.6211	894.68	.	.	V	Q.	.	.
16.333	303.1599	949.45	.	.	V	.Q	.	.
16.417	310.1175	1010.23	.	.	V	.Q	.	.
16.500	317.8497	1122.73	.	.	V	.Q	.	.
16.583	326.3904	1240.11	.	.	V.	.Q	.	.
16.667	335.5378	1328.20	.	.	V.	.Q.	.	.
16.750	345.0133	1375.84	.	.	V	.Q	.	.
16.833	354.8157	1423.31	.	.	.V	.Q	.	.
16.917	364.8187	1452.43	.	.	.V	.Q	.	.
17.000	375.0927	1491.79	.	.	.V	.Q	.	.
17.083	385.5927	1524.59	.	.	.V	.Q	.	.
17.167	396.7834	1624.90	.	.	.V	.Q	.	.
17.250	407.9354	1619.27	.	.	.V	.Q	.	.
17.333	419.8256	1726.46	.	.	.V	.Q	.	.
17.417	431.6816	1721.49	.	.	.V	.Q	.	.
17.500	442.5182	1573.48	.	.	.V	.Q	.	.
17.583	453.7181	1626.22	.	.	.V	.Q	.	.
17.667	464.4775	1562.27	.	.	.V	.Q	.	.
17.750	474.4877	1453.48	.	.	.V	.Q	.	.
17.833	483.8676	1361.97	.	.	.V	Q	.	.
17.917	492.5076	1254.53	.	.	.Q	V.	.	.
18.000	500.5827	1172.51	.	.	.Q	V.	.	.
18.083	508.3839	1132.73	.	.	.Q	V	.	.
18.167	515.6585	1056.27	.	.	.Q	V	.	.
18.250	522.3466	971.12	.	.	.Q	V	.	.
18.333	528.4770	890.13	.	.	.Q.	.V	.	.
18.417	534.2416	837.03	.	.	Q.	.V	.	.

18.500	539.7264	796.38	.	.	Q	.	.V	.
18.583	544.9224	754.46	.	.	Q	.	.V	.
18.667	549.8122	710.00	.	.	Q	.	.V	.
18.750	554.2938	650.72	.	.	Q	.	.V	.
18.833	558.5464	617.48	.	.	Q	.	.V	.
18.917	562.5002	574.10	.	.	Q	.	.V	.
19.000	566.2040	537.78	.	.	.Q	.	.V	.
19.083	569.7477	514.55	.	.	.Q	.	.V	.
19.167	573.1167	489.17	.	.	Q	.	.V	.
19.250	576.2081	448.88	.	.	Q.	.	.V	.
19.333	579.0121	407.14	.	.	Q.	.	.V	.
19.417	581.6910	388.96	.	.	Q	.	.V	.
19.500	584.2694	374.38	.	.	Q	.	.V	.
19.583	586.7465	359.66	.	.	Q	.	.V	.
19.667	589.1259	345.49	.	.	Q	.	.V	.
19.750	591.4187	332.92	.	.	Q	.	.V	.
19.833	593.6307	321.18	.	.	Q	.	.V	.
19.917	595.7715	310.84	.	.	Q	.	.V	.
20.000	597.8474	301.42	.	.	Q	.	.V	.
20.083	599.8631	292.69	.	.	Q	.	.V	.
20.167	601.8226	284.52	.	.	Q	.	.V	.
20.250	603.7312	277.13	.	.	Q	.	.V	.
20.333	605.5945	270.56	.	.	Q	.	.V	.
20.417	607.4137	264.14	.	.	Q	.	.V	.
20.500	609.1888	257.74	.	.	Q	.	.V	.
20.583	610.9141	250.51	.	.	Q	.	.V	.
20.667	612.5726	240.82	.	.	Q	.	.V	.
20.750	614.1219	224.96	.	.	Q	.	.V	.
20.833	615.6345	219.61	.	.	Q	.	.V	.
20.917	617.1164	215.18	.	.	Q	.	.V	.
21.000	618.5705	211.14	.	.	Q	.	.V	.
21.083	619.9961	206.99	.	.	Q	.	.V	.
21.167	621.3945	203.06	.	.	Q	.	.V	.
21.250	622.7680	199.43	.	.	Q	.	.V	.
21.333	624.1188	196.13	.	.	Q	.	.V	.
21.417	625.4478	192.97	.	.	Q	.	.V	.
21.500	626.7559	189.94	.	.	Q	.	.V	.
21.583	628.0439	187.02	.	.	Q	.	.V	.
21.667	629.3127	184.23	.	.	Q	.	.V	.
21.750	630.5640	181.68	.	.	Q	.	.V	.
21.833	631.7983	179.22	.	.	Q	.	.V	.
21.917	633.0162	176.84	.	.	Q	.	.V	.
22.000	634.2184	174.55	.	.	Q	.	.V	.
22.083	635.4052	172.33	.	.	Q	.	.V	.
22.167	636.5773	170.18	.	.	Q	.	.V	.
22.250	637.7350	168.10	.	.	Q	.	.V	.
22.333	638.8788	166.08	.	.	Q	.	.V	.
22.417	640.0091	164.12	.	.	Q	.	.V	.
22.500	641.1263	162.22	.	.	Q	.	.V	.
22.583	642.2308	160.37	.	.	Q	.	.V	.
22.667	643.3229	158.59	.	.	Q	.	.V	.
22.750	644.4037	156.94	.	.	Q	.	.V	.
22.833	645.4735	155.33	.	.	Q	.	.V	.
22.917	646.5325	153.77	.	.	Q	.	.V	.
23.000	647.5811	152.25	.	.	Q	.	.V	.
23.083	648.6194	150.77	.	.	Q	.	.V	.
23.167	649.6478	149.33	.	.	Q	.	.V	.
23.250	650.6666	147.92	.	.	Q	.	.V	.

23.333	651.6758	146.55	. Q	.	.	.	V .
23.417	652.6760	145.21	. Q	.	.	.	V .
23.500	653.6671	143.91	. Q	.	.	.	V .
23.583	654.6494	142.63	. Q	.	.	.	V .
23.667	655.6231	141.39	. Q	.	.	.	V .
23.750	656.5885	140.17	. Q	.	.	.	V .
23.833	657.5457	138.99	. Q	.	.	.	V .
23.917	658.4949	137.82	. Q	.	.	.	V .
24.000	659.4363	136.69	. Q	.	.	.	V .
24.083	660.3671	135.15	. Q	.	.	.	V .
24.167	661.2846	133.23	. Q	.	.	.	V .
24.250	662.1891	131.33	. Q	.	.	.	V .
24.333	663.0787	129.17	. Q	.	.	.	V .
24.417	663.9523	126.84	. Q	.	.	.	V .
24.500	664.8046	123.75	. Q	.	.	.	V .
24.583	665.6296	119.79	. Q	.	.	.	V .
24.667	666.4228	115.17	. Q	.	.	.	V .
24.750	667.1822	110.26	. Q	.	.	.	V .
24.833	667.9059	105.08	. Q	.	.	.	V .
24.917	668.5931	99.78	. Q	.	.	.	V .
25.000	669.2426	94.30	. Q	.	.	.	V .
25.083	669.8539	88.78	. Q	.	.	.	V .
25.167	670.4206	82.27	. Q	.	.	.	V .
25.250	670.9455	76.22	. Q	.	.	.	V .
25.333	671.4200	68.90	. Q	.	.	.	V .
25.417	671.8431	61.42	. Q	.	.	.	V .
25.500	672.2264	55.66	. Q	.	.	.	V .
25.583	672.5637	48.97	. Q	.	.	.	V .
25.667	672.8575	42.67	. Q	.	.	.	V .
25.750	673.1140	37.24	. Q	.	.	.	V .
25.833	673.3367	32.33	. Q	.	.	.	V .
25.917	673.5312	28.24	. Q	.	.	.	V .
26.000	673.7016	24.75	. Q	.	.	.	V .
26.083	673.8481	21.28	. Q	.	.	.	V .
26.167	673.9738	18.24	. Q	.	.	.	V .
26.250	674.0821	15.73	. Q	.	.	.	V .
26.333	674.1766	13.73	. Q	.	.	.	V .
26.417	674.2591	11.97	. Q	.	.	.	V .
26.500	674.3303	10.35	. Q	.	.	.	V .
26.583	674.3912	8.84	. Q	.	.	.	V .
26.667	674.4426	7.46	. Q	.	.	.	V .
26.750	674.4869	6.44	. Q	.	.	.	V .
26.833	674.5246	5.47	. Q	.	.	.	V .
26.917	674.5569	4.69	. Q	.	.	.	V .
27.000	674.5851	4.08	. Q	.	.	.	V .
27.083	674.6091	3.48	. Q	.	.	.	V .
27.167	674.6289	2.88	. Q	.	.	.	V .
27.250	674.6459	2.47	. Q	.	.	.	V .
27.333	674.6619	2.32	. Q	.	.	.	V .
27.417	674.6768	2.16	. Q	.	.	.	V .
27.500	674.6906	2.01	. Q	.	.	.	V .
27.583	674.7034	1.86	. Q	.	.	.	V .
27.667	674.7151	1.71	. Q	.	.	.	V .
27.750	674.7258	1.56	. Q	.	.	.	V .
27.833	674.7355	1.41	. Q	.	.	.	V .
27.917	674.7442	1.26	. Q	.	.	.	V .
28.000	674.7519	1.11	. Q	.	.	.	V .
28.083	674.7585	0.97	. Q	.	.	.	V .

28.167	674.7642	0.82	. Q	.	.	.	V .
28.250	674.7689	0.68	. Q	.	.	.	V .
28.333	674.7726	0.54	. Q	.	.	.	V .
28.417	674.7754	0.40	. Q	.	.	.	V .
28.500	674.7772	0.26	. Q	.	.	.	V .
28.583	674.7780	0.12	. Q	.	.	.	V .

-----  
TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
(Note: 100% of Peak Flow Rate estimate assumed to have  
an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
=====	=====
0%	1715.0
10%	805.0
20%	365.0
30%	240.0
40%	175.0
50%	135.0
60%	105.0
70%	85.0
80%	60.0
90%	35.0
=====	=====

END OF FLOODSCx ROUTING ANALYSIS

\*\*\*\*\*

FLOOD ROUTING ANALYSIS
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)
(c) Copyright 1989-2013 Advanced Engineering Software (aes)
Ver. 20.0 Release Date: 06/01/2013 License ID 1237

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*
\* RMV PA-3 ROMP AMENDMENT 2022 - NODE 134U \*
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*
\* 25-YR EV OCT 2022 ROKAMOTO \*

FILE NAME: EV2534US.DAT
TIME/DATE OF STUDY: 10:39 10/25/2022

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 134.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<

\*\*\*\*\*

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 62747.398 ACRES
BASEFLOW = 0.000 CFS/SQUARE-MILE
\*USER ENTERED "LAG" TIME = 2.581 HOURS
VALLEY (DEVELOPED) S-GRAPH SELECTED
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.284
LOW LOSS FRACTION = 0.448
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.40
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.76
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 1.05
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 1.93
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 2.83
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 4.96

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:
5-MINUTE FACTOR = 0.304
30-MINUTE FACTOR = 0.358
1-HOUR FACTOR = 0.405
3-HOUR FACTOR = 0.750
6-HOUR FACTOR = 0.890
24-HOUR FACTOR = 0.936

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 3.229

UNIT HYDROGRAPH DETERMINATION

Table with 3 columns: INTERVAL NUMBER, "S" GRAPH MEAN VALUES, UNIT HYDROGRAPH ORDINATES (CFS). Rows 1-48.

49	85.178	9478.173
50	86.327	8713.833
51	87.323	7562.750
52	88.239	6945.349
53	89.002	5793.166
54	89.760	5755.302
55	90.467	5358.195
56	91.146	5158.570
57	91.824	5143.575
58	92.457	4806.217
59	93.073	4668.482
60	93.688	4666.225
61	94.202	3901.885
62	94.612	3112.302
63	95.022	3110.044
64	95.432	3112.360
65	95.841	3103.155
66	96.156	2389.300
67	96.409	1921.097
68	96.662	1921.097
69	96.915	1923.413
70	97.168	1918.839
71	97.422	1925.671
72	97.675	1921.097
73	97.923	1882.133
74	98.044	913.479
75	98.104	459.055
76	98.165	459.055
77	98.225	458.998
78	98.286	461.371
79	98.346	456.740
80	98.407	459.055
81	98.467	459.055
82	98.528	459.055
83	98.589	465.887
84	98.649	454.482
85	98.709	459.055
86	98.770	459.055
87	98.830	458.998
88	98.891	463.687
89	98.951	454.424
90	99.012	463.629
91	99.072	454.424
92	99.132	454.424
93	99.192	454.424
94	99.252	454.424
95	99.312	454.424
96	99.372	454.424
97	99.432	454.424
98	99.491	454.424
99	99.551	454.424
100	99.611	454.424
101	99.671	454.424
102	99.731	454.424
103	99.791	454.424
104	99.851	454.424
105	99.911	454.424
106	99.971	454.424

107

100.000

223.593

-----  
TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 10702.7812  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 13540.5430  
-----

2 4 - 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 FIVE-MINUTE UNIT INTERVALS (CFS)

(Note: Time indicated is at END of Each Unit Intervals)

TIME (HRS)	VOLUME (AF)	Q (CFS)	0.	4075.0	8150.0	12225.0	16300.0
0.083	0.0377	5.48	Q	.	.	.	.
0.167	0.1509	16.44	Q	.	.	.	.
0.250	0.3399	27.44	Q	.	.	.	.
0.333	0.6048	38.46	Q	.	.	.	.
0.417	0.9459	49.53	Q	.	.	.	.
0.500	1.3700	61.58	Q	.	.	.	.
0.583	1.9066	77.92	Q	.	.	.	.
0.667	2.5596	94.81	Q	.	.	.	.
0.750	3.3293	111.76	Q	.	.	.	.
0.833	4.2659	136.00	Q	.	.	.	.
0.917	5.4167	167.09	Q	.	.	.	.
1.000	6.8206	203.85	Q	.	.	.	.
1.083	8.5204	246.81	Q	.	.	.	.
1.167	10.5693	297.50	Q	.	.	.	.
1.250	12.9575	346.77	Q	.	.	.	.
1.333	15.6828	395.71	Q	.	.	.	.
1.417	18.8362	457.88	VQ	.	.	.	.
1.500	22.4075	518.55	VQ	.	.	.	.
1.583	26.3415	571.21	VQ	.	.	.	.
1.667	30.6728	628.91	VQ	.	.	.	.
1.750	35.4936	699.98	VQ	.	.	.	.
1.833	40.7576	764.33	VQ	.	.	.	.
1.917	46.4146	821.40	V Q	.	.	.	.
2.000	52.5395	889.33	V Q	.	.	.	.
2.083	59.1589	961.15	V Q	.	.	.	.
2.167	66.3740	1047.63	V Q	.	.	.	.
2.250	74.0734	1117.96	V Q	.	.	.	.
2.333	82.2699	1190.12	V Q	.	.	.	.
2.417	91.1141	1284.19	V Q	.	.	.	.
2.500	100.5824	1374.79	V Q	.	.	.	.
2.583	110.7380	1474.60	V Q	.	.	.	.
2.667	121.5465	1569.40	V Q	.	.	.	.
2.750	132.8663	1643.63	V Q	.	.	.	.
2.833	144.6772	1714.95	V Q	.	.	.	.
2.917	157.0482	1796.26	V Q	.	.	.	.
3.000	170.0973	1894.73	V Q	.	.	.	.
3.083	183.7605	1983.90	V Q	.	.	.	.
3.167	197.9234	2056.45	V Q	.	.	.	.
3.250	212.5987	2130.84	V Q	.	.	.	.
3.333	227.7732	2203.35	V Q	.	.	.	.
3.417	243.4028	2269.42	V Q	.	.	.	.
3.500	259.4993	2337.21	V Q	.	.	.	.
3.583	275.9933	2394.92	V Q	.	.	.	.
3.667	292.8336	2445.21	V Q	.	.	.	.
3.750	310.0219	2495.75	V Q	.	.	.	.
3.833	327.5717	2548.23	V Q	.	.	.	.
3.917	345.4749	2599.55	.V Q	.	.	.	.

4.000	363.7119	2648.00	.V Q	.	.	.	.
4.083	382.2639	2693.75	.V Q	.	.	.	.
4.167	401.1118	2736.72	.V Q	.	.	.	.
4.250	420.2258	2775.35	.V Q	.	.	.	.
4.333	439.5905	2811.76	.V Q	.	.	.	.
4.417	459.1760	2843.81	.V Q	.	.	.	.
4.500	478.9823	2875.89	.V Q	.	.	.	.
4.583	498.9998	2906.54	.V Q	.	.	.	.
4.667	519.2244	2936.60	.V Q	.	.	.	.
4.750	539.6564	2966.72	.V Q	.	.	.	.
4.833	560.2880	2995.71	.V Q	.	.	.	.
4.917	581.1165	3024.29	.V Q	.	.	.	.
5.000	602.1429	3053.04	.V Q	.	.	.	.
5.083	623.3477	3078.93	.V Q	.	.	.	.
5.167	644.7107	3101.91	.V Q	.	.	.	.
5.250	666.2327	3124.99	.V Q	.	.	.	.
5.333	687.9149	3148.26	. V Q	.	.	.	.
5.417	709.7580	3171.61	. V Q	.	.	.	.
5.500	731.7438	3192.35	. V Q	.	.	.	.
5.583	753.8607	3211.36	. V Q	.	.	.	.
5.667	776.1096	3230.55	. V Q	.	.	.	.
5.750	798.4916	3249.86	. V Q	.	.	.	.
5.833	821.0076	3269.33	. V Q	.	.	.	.
5.917	843.6586	3288.94	. V Q	.	.	.	.
6.000	866.4459	3308.70	. V Q	.	.	.	.
6.083	889.3690	3328.44	. V Q	.	.	.	.
6.167	912.4033	3344.57	. V Q	.	.	.	.
6.250	935.5372	3359.04	. V Q	.	.	.	.
6.333	958.7719	3373.68	. V Q	.	.	.	.
6.417	982.1083	3388.44	. V Q	.	.	.	.
6.500	1005.5475	3403.38	. V Q	.	.	.	.
6.583	1029.0903	3418.42	. V Q	.	.	.	.
6.667	1052.7380	3433.65	. V Q	.	.	.	.
6.750	1076.4916	3449.01	. V Q	.	.	.	.
6.833	1100.3522	3464.56	. V Q	.	.	.	.
6.917	1124.3209	3480.26	. V Q	.	.	.	.
7.000	1148.3988	3496.11	. V Q	.	.	.	.
7.083	1172.5869	3512.11	. V Q	.	.	.	.
7.167	1196.8866	3528.31	. V Q	.	.	.	.
7.250	1221.2988	3544.66	. V Q	.	.	.	.
7.333	1245.8252	3561.23	. V Q	.	.	.	.
7.417	1270.4666	3577.92	. V Q	.	.	.	.
7.500	1295.2245	3594.85	. V Q	.	.	.	.
7.583	1320.0999	3611.90	. V Q	.	.	.	.
7.667	1345.0941	3629.17	. V Q	.	.	.	.
7.750	1370.2085	3646.61	. V Q	.	.	.	.
7.833	1395.4446	3664.28	. V Q	.	.	.	.
7.917	1420.8035	3682.11	. V Q	.	.	.	.
8.000	1446.2867	3700.18	. V Q	.	.	.	.
8.083	1471.8958	3718.43	. V Q	.	.	.	.
8.167	1497.6322	3736.93	. V Q	.	.	.	.
8.250	1523.4973	3755.61	. V Q	.	.	.	.
8.333	1549.4928	3774.55	. V Q	.	.	.	.
8.417	1575.6201	3793.68	. V Q	.	.	.	.
8.500	1601.8810	3813.08	. V Q	.	.	.	.
8.583	1628.2769	3832.69	. V Q	.	.	.	.
8.667	1654.8097	3852.57	. V Q	.	.	.	.
8.750	1681.4810	3872.66	. V Q	.	.	.	.



8.833	1708.2926	3893.05	.	V	Q.	.	.	.
8.917	1735.2400	3912.76	.	V	Q.	.	.	.
9.000	1762.3191	3931.89	.	V	Q.	.	.	.
9.083	1789.5316	3951.25	.	V	Q.	.	.	.
9.167	1816.8796	3970.93	.	V	Q.	.	.	.
9.250	1844.3647	3990.84	.	V	Q.	.	.	.
9.333	1871.9893	4011.09	.	V	Q.	.	.	.
9.417	1899.7550	4031.58	.	V	Q.	.	.	.
9.500	1927.6642	4052.42	.	V	Q.	.	.	.
9.583	1955.7188	4073.51	.	V	Q.	.	.	.
9.667	1983.9210	4094.98	.	V	Q	.	.	.
9.750	2012.2731	4116.72	.	V	Q	.	.	.
9.833	2040.7775	4138.83	.	V	Q	.	.	.
9.917	2069.4363	4161.24	.	V	Q	.	.	.
10.000	2098.2520	4184.05	.	V	Q	.	.	.
10.083	2127.2271	4207.17	.	V	Q	.	.	.
10.167	2156.3640	4230.70	.	V	Q	.	.	.
10.250	2185.6655	4254.56	.	V	Q	.	.	.
10.333	2215.1343	4278.87	.	V	Q	.	.	.
10.417	2244.7727	4303.52	.	V	Q	.	.	.
10.500	2274.5842	4328.63	.	V	Q	.	.	.
10.583	2304.5713	4354.10	.	V	Q	.	.	.
10.667	2334.7371	4380.07	.	V	Q	.	.	.
10.750	2365.0845	4406.43	.	V	Q	.	.	.
10.833	2395.6169	4433.30	.	V	Q	.	.	.
10.917	2426.3372	4460.59	.	V	Q	.	.	.
11.000	2457.2493	4488.43	.	V	.Q	.	.	.
11.083	2488.3560	4516.70	.	V	.Q	.	.	.
11.167	2519.6614	4545.55	.	V	.Q	.	.	.
11.250	2551.1687	4574.88	.	V	.Q	.	.	.
11.333	2582.8823	4604.82	.	V	.Q	.	.	.
11.417	2614.8057	4635.26	.	V	.Q	.	.	.
11.500	2646.9431	4666.35	.	V	.Q	.	.	.
11.583	2679.2983	4697.98	.	V	.Q	.	.	.
11.667	2711.8762	4730.30	.	V	.Q	.	.	.
11.750	2744.6807	4763.20	.	V	.Q	.	.	.
11.833	2777.7168	4796.84	.	V	.Q	.	.	.
11.917	2810.9888	4831.11	.	V	.Q	.	.	.
12.000	2844.5022	4866.16	.	V	.Q	.	.	.
12.083	2878.3293	4911.69	.	V	.Q	.	.	.
12.167	2912.5432	4967.86	.	V	.Q	.	.	.
12.250	2947.1482	5024.64	.	V	.Q	.	.	.
12.333	2982.1497	5082.21	.	V	.Q	.	.	.
12.417	3017.5522	5140.46	.	V	.Q	.	.	.
12.500	3053.3738	5201.28	.	V	.Q	.	.	.
12.583	3089.6714	5270.43	.	V	.Q	.	.	.
12.667	3126.4575	5341.36	.	V	.Q	.	.	.
12.750	3163.7373	5413.01	.	V	.Q	.	.	.
12.833	3201.6064	5498.59	.	V	.Q	.	.	.
12.917	3240.1538	5597.06	.	V	.Q	.	.	.
13.000	3279.4541	5706.41	.	V	.Q	.	.	.
13.083	3319.5872	5827.33	.	V	.Q	.	.	.
13.167	3360.6528	5962.74	.	V	.Q	.	.	.
13.250	3402.6357	6095.94	.	V	.Q	.	.	.
13.333	3445.5356	6229.07	.	V	.Q	.	.	.
13.417	3489.5188	6386.35	.	V	.Q	.	.	.
13.500	3534.5701	6541.43	.	V	.Q	.	.	.
13.583	3580.5920	6682.39	.	V	.Q	.	.	.

13.667	3627.6516	6833.05	.	V	Q	.	.	.
13.750	3675.9165	7008.07	.	V	Q	.	.	.
13.833	3725.3076	7171.58	.	.V	Q	.	.	.
13.917	3775.7368	7322.32	.	.V	Q	.	.	.
14.000	3827.3438	7493.33	.	.V	Q	.	.	.
14.083	3880.2446	7681.21	.	.V	Q	.	.	.
14.167	3934.6887	7905.28	.	.V	Q.	.	.	.
14.250	3990.4731	8099.90	.	.V	Q.	.	.	.
14.333	4047.6194	8297.65	.	.V	Q	.	.	.
14.417	4106.3970	8534.49	.	.V	Q	.	.	.
14.500	4166.7715	8766.41	.	.V	.Q	.	.	.
14.583	4228.9038	9021.64	.	.V	.Q	.	.	.
14.667	4292.7339	9268.13	.	.V	.Q	.	.	.
14.750	4358.0000	9476.65	.	.V	.Q	.	.	.
14.833	4424.7500	9692.12	.	.V	.Q	.	.	.
14.917	4493.1812	9936.23	.	.V	.Q	.	.	.
15.000	4563.5625	10219.38	.	.V	.Q	.	.	.
15.083	4635.8359	10494.08	.	.V	.Q	.	.	.
15.167	4709.8691	10749.64	.	.V	.Q	.	.	.
15.250	4785.6455	11002.71	.	.V	.Q	.	.	.
15.333	4863.1143	11248.49	.	.V	.Q	.	.	.
15.417	4942.2432	11489.52	.	.V	.Q	.	.	.
15.500	5022.9258	11715.14	.	.V	.Q	.	.	.
15.583	5104.9292	11906.91	.	.V	.Q.	.	.	.
15.667	5188.2188	12093.66	.	.V	.Q.	.	.	.
15.750	5272.9136	12297.67	.	.V	.Q	.	.	.
15.833	5358.9004	12485.29	.	.V	.Q	.	.	.
15.917	5446.0420	12652.96	.	.V	.Q	.	.	.
16.000	5534.5181	12846.72	.	.V	.Q	.	.	.
16.083	5625.0874	13150.70	.	.V	.Q	.	.	.
16.167	5717.6543	13440.70	.	.V	.Q	.	.	.
16.250	5811.0190	13556.54	.	.V	.Q	.	.	.
16.333	5905.0737	13656.72	.	.V	.Q	.	.	.
16.417	6000.0435	13789.61	.	.V	.Q	.	.	.
16.500	6095.9795	13929.93	.	.V	.Q	.	.	.
16.583	6193.4014	14145.69	.	.V	.Q	.	.	.
16.667	6291.7471	14279.80	.	.V	.Q	.	.	.
16.750	6390.5884	14351.73	.	.V	.Q	.	.	.
16.833	6490.9331	14570.05	.	.V.	.Q	.	.	.
16.917	6593.0630	14829.23	.	.V.	.Q	.	.	.
17.000	6696.9712	15087.50	.	.V.	.Q	.	.	.
17.083	6802.1509	15272.13	.	.V	.Q	.	.	.
17.167	6908.5938	15455.52	.	.V	.Q	.	.	.
17.250	7015.3760	15504.75	.	.V	.Q	.	.	.
17.333	7122.6001	15568.93	.	.V	.Q	.	.	.
17.417	7231.7866	15853.88	.	.V	.Q	.	.	.
17.500	7340.7119	15815.98	.	.V	.Q	.	.	.
17.583	7448.8477	15701.31	.	.V	.Q	.	.	.
17.667	7557.8799	15831.48	.	.V	.Q	.	.	.
17.750	7668.5020	16062.35	.	.V	.Q.	.	.	.
17.833	7777.8838	15882.27	.	.V	.Q	.	.	.
17.917	7886.0112	15700.08	.	.V	.Q	.	.	.
18.000	7995.5103	15899.27	.	.V	.Q.	.	.	.
18.083	8105.5967	15984.55	.	.V	.Q.	.	.	.
18.167	8217.2275	16208.77	.	.V	.Q.	.	.	.
18.250	8325.9277	15783.21	.	.V	.Q	.	.	.
18.333	8434.3643	15744.92	.	.V	.Q	.	.	.
18.417	8545.2109	16094.95	.	.V	.Q.	.	.	.

18.500	8655.4287	16003.63	.	.	.	V	.	Q.
18.583	8766.1807	16081.13	.	.	.	V	.	Q.
18.667	8875.0273	15804.60	.	.	.	V	.	Q.
18.750	8980.4600	15308.75	.	.	.	V	.	Q.
18.833	9085.2939	15221.83	.	.	.	V	.	Q.
18.917	9191.6094	15436.98	.	.	.	V	.	Q.
19.000	9299.8438	15715.61	.	.	.	V	.	Q.
19.083	9405.6797	15367.43	.	.	.	V	.	Q.
19.167	9507.8428	14834.15	.	.	.	V	.	Q.
19.250	9609.2588	14725.59	.	.	.	V	.	Q.
19.333	9709.6787	14580.99	.	.	.	V	.	Q.
19.417	9808.0020	14276.58	.	.	.	V	.	Q.
19.500	9904.9922	14083.03	.	.	.	V	.	Q.
19.583	9999.0605	13658.67	.	.	.	V	.	Q.
19.667	10090.7344	13310.99	.	.	.	V	.	Q.
19.750	10181.1650	13130.52	.	.	.	V	.	Q.
19.833	10270.6777	12997.28	.	.	.	V	.	Q.
19.917	10358.6533	12774.07	.	.	.	V	.	Q.
20.000	10444.3545	12443.81	.	.	.	Q	.	.
20.083	10527.8125	12118.12	.	.	.	Q.V	.	.
20.167	10608.9736	11784.53	.	.	.	Q.V	.	.
20.250	10687.7725	11441.57	.	.	.	Q.V	.	.
20.333	10764.4541	11134.11	.	.	.	Q.V	.	.
20.417	10838.5801	10763.03	.	.	.	Q.V	.	.
20.500	10910.8008	10486.49	.	.	.	Q.V	.	.
20.583	10980.8584	10172.35	.	.	.	Q.V	.	.
20.667	11048.9814	9891.52	.	.	.	Q.V	.	.
20.750	11115.4531	9651.75	.	.	.	Q.V	.	.
20.833	11180.1729	9397.30	.	.	.	Q.V	.	.
20.917	11243.1113	9138.62	.	.	.	Q.V	.	.
21.000	11304.0732	8851.66	.	.	.	Q.V	.	.
21.083	11362.7832	8524.62	.	.	.	Q.V	.	.
21.167	11419.5137	8237.26	.	.	.	Q.V	.	.
21.250	11474.7402	8018.92	.	.	.	Q.V	.	.
21.333	11528.5049	7806.65	.	.	.	Q.V	.	.
21.417	11580.8662	7602.86	.	.	.	Q.V	.	.
21.500	11631.4551	7345.56	.	.	.	Q.V	.	.
21.583	11680.6162	7138.15	.	.	.	Q.V	.	.
21.667	11728.7148	6983.85	.	.	.	Q.V	.	.
21.750	11775.7578	6830.71	.	.	.	Q.V	.	.
21.833	11821.7236	6674.27	.	.	.	Q.V	.	.
21.917	11866.6152	6518.28	.	.	.	Q.V	.	.
22.000	11910.4258	6361.31	.	.	.	Q.V	.	.
22.083	11953.1553	6204.28	.	.	.	Q.V	.	.
22.167	11994.3965	5988.22	.	.	.	Q.V	.	.
22.250	12034.5361	5828.21	.	.	.	Q.V	.	.
22.333	12073.8691	5711.20	.	.	.	Q.V	.	.
22.417	12112.4707	5604.95	.	.	.	Q.V	.	.
22.500	12150.3359	5497.97	.	.	.	Q.V	.	.
22.583	12187.4814	5393.51	.	.	.	Q.V	.	.
22.667	12223.9268	5291.84	.	.	.	Q.V	.	.
22.750	12259.6777	5190.98	.	.	.	Q.V	.	.
22.833	12294.7549	5093.26	.	.	.	Q.V	.	.
22.917	12329.1641	4996.17	.	.	.	Q.V	.	.
23.000	12362.8906	4897.05	.	.	.	Q.V	.	.
23.083	12395.9883	4805.71	.	.	.	Q.V	.	.
23.167	12428.5439	4727.12	.	.	.	Q.V	.	.
23.250	12460.5908	4653.17	.	.	.	Q.V	.	.

23.333	12492.1396	4580.94	.	.	.	.Q	.	V
23.417	12523.1943	4509.17	.	.	.	.Q	.	V
23.500	12553.8086	4445.13	.	.	.	Q	.	V
23.583	12584.0039	4384.30	.	.	.	Q	.	V
23.667	12613.7939	4325.55	.	.	.	Q	.	V
23.750	12643.1875	4267.91	.	.	.	Q	.	V
23.833	12672.1924	4211.56	.	.	.	Q	.	V
23.917	12700.8164	4156.16	.	.	.	Q	.	V
24.000	12729.0664	4101.93	.	.	.	Q	.	V
24.083	12756.9141	4043.50	.	.	.	Q.	.	V
24.167	12784.3760	3987.44	.	.	.	Q.	.	V
24.250	12811.4961	3937.77	.	.	.	Q.	.	V
24.333	12838.2939	3891.04	.	.	.	Q.	.	V
24.417	12864.7744	3844.92	.	.	.	Q.	.	V
24.500	12890.9336	3798.25	.	.	.	Q.	.	V
24.583	12916.7510	3748.75	.	.	.	Q.	.	V
24.667	12942.2324	3699.84	.	.	.	Q.	.	V
24.750	12967.3721	3650.22	.	.	.	Q.	.	V
24.833	12992.1074	3591.54	.	.	.	Q.	.	V
24.917	13016.2705	3508.49	.	.	.	Q.	.	V
25.000	13039.8477	3423.45	.	.	.	Q.	.	V
25.083	13062.9297	3351.53	.	.	.	Q.	.	V
25.167	13085.4727	3273.24	.	.	.	Q.	.	V
25.250	13107.4824	3195.85	.	.	.	Q.	.	V
25.333	13128.9541	3117.70	.	.	.	Q.	.	V
25.417	13149.8018	3027.08	.	.	.	Q.	.	V
25.500	13170.0410	2938.68	.	.	.	Q.	.	V
25.583	13189.7324	2859.15	.	.	.	Q.	.	V
25.667	13208.8457	2775.29	.	.	.	Q.	.	V
25.750	13227.2949	2678.86	.	.	.	Q.	.	V
25.833	13245.1318	2589.98	.	.	.	Q.	.	V
25.917	13262.4238	2510.79	.	.	.	Q.	.	V
26.000	13279.1123	2423.14	.	.	.	Q.	.	V
26.083	13295.1777	2332.64	.	.	.	Q.	.	V
26.167	13310.5254	2228.53	.	.	.	Q.	.	V
26.250	13325.2754	2141.66	.	.	.	Q.	.	V
26.333	13339.4209	2053.96	.	.	.	Q.	.	V
26.417	13352.8184	1945.34	.	.	.	Q.	.	V
26.500	13365.5000	1841.32	.	.	.	Q.	.	V
26.583	13377.4092	1729.18	.	.	.	Q.	.	V
26.667	13388.5879	1623.19	.	.	.	Q.	.	V
26.750	13399.1855	1538.81	.	.	.	Q.	.	V
26.833	13409.2285	1458.23	.	.	.	Q.	.	V
26.917	13418.6650	1370.15	.	.	.	Q.	.	V
27.000	13427.3936	1267.43	.	.	.	Q.	.	V
27.083	13435.4863	1175.07	.	.	.	Q.	.	V
27.167	13443.0645	1100.30	.	.	.	Q.	.	V
27.250	13450.1201	1024.50	.	.	.	Q.	.	V
27.333	13456.6729	951.42	.	.	.	Q.	.	V
27.417	13462.7715	885.55	.	.	.	Q.	.	V
27.500	13468.4102	818.69	.	.	.	Q.	.	V
27.583	13473.6621	762.62	.	.	.	Q.	.	V
27.667	13478.5840	714.61	.	.	.	Q.	.	V
27.750	13483.1768	666.88	.	.	.	Q.	.	V
27.833	13487.4316	617.79	.	.	.	Q.	.	V
27.917	13491.3604	570.40	.	.	.	Q.	.	V
28.000	13494.9863	526.43	.	.	.	Q.	.	V
28.083	13498.3311	485.66	.	.	.	Q.	.	V

28.167	13501.4180	448.17	.Q	.	.	.	V.
28.250	13504.2793	415.44	.Q	.	.	.	V.
28.333	13506.9336	385.35	Q	.	.	.	V.
28.417	13509.4131	359.98	Q	.	.	.	V.
28.500	13511.7197	334.95	Q	.	.	.	V.
28.583	13513.8662	311.65	Q	.	.	.	V.
28.667	13515.8584	289.30	Q	.	.	.	V.
28.750	13517.6982	267.17	Q	.	.	.	V.
28.833	13519.3965	246.52	Q	.	.	.	V.
28.917	13520.9570	226.55	Q	.	.	.	V.
29.000	13522.3809	206.73	Q	.	.	.	V.
29.083	13523.6895	190.03	Q	.	.	.	V.
29.167	13524.9053	176.53	Q	.	.	.	V.
29.250	13526.0293	163.14	Q	.	.	.	V.
29.333	13527.0615	149.83	Q	.	.	.	V.
29.417	13528.0029	136.66	Q	.	.	.	V.
29.500	13528.8730	126.36	Q	.	.	.	V.
29.583	13529.6855	117.96	Q	.	.	.	V.
29.667	13530.4404	109.63	Q	.	.	.	V.
29.750	13531.1387	101.34	Q	.	.	.	V.
29.833	13531.7803	93.13	Q	.	.	.	V.
29.917	13532.3652	84.96	Q	.	.	.	V.
30.000	13532.8945	76.85	Q	.	.	.	V.
30.083	13533.3691	68.96	Q	.	.	.	V.
30.167	13533.8164	64.90	Q	.	.	.	V.
30.250	13534.2480	62.64	Q	.	.	.	V.
30.333	13534.6641	60.41	Q	.	.	.	V.
30.417	13535.0645	58.19	Q	.	.	.	V.
30.500	13535.4502	55.98	Q	.	.	.	V.
30.583	13535.8213	53.81	Q	.	.	.	V.
30.667	13536.1768	51.65	Q	.	.	.	V.
30.750	13536.5176	49.51	Q	.	.	.	V.
30.833	13536.8438	47.38	Q	.	.	.	V.
30.917	13537.1553	45.24	Q	.	.	.	V.
31.000	13537.4521	43.17	Q	.	.	.	V.
31.083	13537.7354	41.09	Q	.	.	.	V.
31.167	13538.0039	39.02	Q	.	.	.	V.
31.250	13538.2588	36.98	Q	.	.	.	V.
31.333	13538.4990	34.93	Q	.	.	.	V.
31.417	13538.7256	32.93	Q	.	.	.	V.
31.500	13538.9385	30.90	Q	.	.	.	V.
31.583	13539.1377	28.93	Q	.	.	.	V.
31.667	13539.3232	26.98	Q	.	.	.	V.
31.750	13539.4961	25.03	Q	.	.	.	V.
31.833	13539.6553	23.10	Q	.	.	.	V.
31.917	13539.8008	21.18	Q	.	.	.	V.
32.000	13539.9336	19.28	Q	.	.	.	V.
32.083	13540.0537	17.39	Q	.	.	.	V.
32.167	13540.1602	15.50	Q	.	.	.	V.
32.250	13540.2539	13.64	Q	.	.	.	V.
32.333	13540.3350	11.78	Q	.	.	.	V.
32.417	13540.4033	9.93	Q	.	.	.	V.
32.500	13540.4590	8.10	Q	.	.	.	V.
32.583	13540.5020	6.28	Q	.	.	.	V.
32.667	13540.5332	4.47	Q	.	.	.	V.
32.750	13540.5518	2.67	Q	.	.	.	V
32.833	13540.5576	0.88	Q	.	.	.	V

TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
 (Note: 100% of Peak Flow Rate estimate assumed to have  
 an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
0%	1970.0
10%	1440.0
20%	1170.0
30%	665.0
40%	510.0
50%	415.0
60%	350.0
70%	295.0
80%	230.0
90%	145.0

=====  
 END OF FLOODSCx ROUTING ANALYSIS

\*\*\*\*\*

FLOOD ROUTING ANALYSIS
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)
(c) Copyright 1989-2013 Advanced Engineering Software (aes)
Ver. 20.0 Release Date: 06/01/2013 License ID 1237

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*
\* RMV PA-3 BODR 2022 - NODE 133C \*
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*
\* 50-YR EV JULY 2022 ROKAMOTO \*

FILE NAME: EV5033CS.DAT
TIME/DATE OF STUDY: 13:50 07/24/2022

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 133.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<

\*\*\*\*\*

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 61055.801 ACRES
BASEFLOW = 0.000 CFS/SQUARE-MILE
\*USER ENTERED "LAG" TIME = 2.381 HOURS
VALLEY (DEVELOPED) S-GRAPH SELECTED
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.285
LOW LOSS FRACTION = 0.414
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.44
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.86
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 1.18
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 2.18
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 3.22
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 5.64

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:
5-MINUTE FACTOR = 0.308
30-MINUTE FACTOR = 0.363
1-HOUR FACTOR = 0.408
3-HOUR FACTOR = 0.754
6-HOUR FACTOR = 0.891
24-HOUR FACTOR = 0.936

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 3.500

UNIT HYDROGRAPH DETERMINATION

Table with 3 columns: INTERVAL NUMBER, "S" GRAPH MEAN VALUES, UNIT HYDROGRAPH ORDINATES (CFS). Rows 1-48.

49	89.058	6124.229
50	89.876	6040.741
51	90.631	5572.091
52	91.367	5441.225
53	92.090	5335.089
54	92.761	4954.998
55	93.428	4922.042
56	94.049	4586.229
57	94.507	3385.055
58	94.952	3282.018
59	95.396	3282.075
60	95.839	3267.596
61	96.176	2490.906
62	96.451	2027.326
63	96.725	2025.242
64	96.999	2027.326
65	97.274	2027.326
66	97.549	2027.326
67	97.823	2025.298
68	98.021	1464.878
69	98.089	498.564
70	98.154	484.199
71	98.220	484.143
72	98.285	484.199
73	98.351	486.227
74	98.417	486.227
75	98.483	486.227
76	98.549	484.143
77	98.614	484.199
78	98.680	488.255
79	98.745	480.030
80	98.811	486.283
81	98.876	482.058
82	98.942	486.227
83	99.008	486.227
84	99.074	486.227
85	99.140	486.227
86	99.206	486.227
87	99.272	486.227
88	99.337	486.227
89	99.403	486.227
90	99.469	486.227
91	99.535	486.227
92	99.601	486.227
93	99.667	486.227
94	99.732	486.227
95	99.798	486.227
96	99.864	486.227
97	99.930	486.227
98	99.996	486.227
99	100.000	30.590

-----  
TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 10947.0801  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 15891.4600  
-----

=====  
2 4 - 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 FIVE-MINUTE UNIT INTERVALS (CFS)  
(Note: Time indicated is at END of Each Unit Intervals)

TIME (HRS)	VOLUME (AF)	Q (CFS)	0.	4825.0	9650.0	14475.0	19300.0
0.083	0.0480	6.96	Q	.	.	.	.
0.167	0.1920	20.91	Q	.	.	.	.
0.250	0.4322	34.89	Q	.	.	.	.
0.333	0.7691	48.91	Q	.	.	.	.
0.417	1.2028	62.98	Q	.	.	.	.
0.500	1.7588	80.72	Q	.	.	.	.
0.583	2.4623	102.15	Q	.	.	.	.
0.667	3.3137	123.63	Q	.	.	.	.
0.750	4.3449	149.73	Q	.	.	.	.
0.833	5.6427	188.43	Q	.	.	.	.
0.917	7.2493	233.28	Q	.	.	.	.
1.000	9.2291	287.47	Q	.	.	.	.
1.083	11.6502	351.54	Q	.	.	.	.
1.167	14.5014	414.00	Q	.	.	.	.
1.250	17.7865	476.99	Q	.	.	.	.
1.333	21.6470	560.54	VQ	.	.	.	.
1.417	25.9945	631.25	VQ	.	.	.	.
1.500	30.8097	699.17	VQ	.	.	.	.
1.583	36.1895	781.15	VQ	.	.	.	.
1.667	42.1838	870.37	VQ	.	.	.	.
1.750	48.6799	943.24	VQ	.	.	.	.
1.833	55.7342	1024.29	V Q	.	.	.	.
1.917	63.4195	1115.90	V Q	.	.	.	.
2.000	71.8463	1223.58	V Q	.	.	.	.
2.083	80.8843	1312.31	V Q	.	.	.	.
2.167	90.5885	1409.05	V Q	.	.	.	.
2.250	101.1037	1526.81	V Q	.	.	.	.
2.333	112.4142	1642.28	V Q	.	.	.	.
2.417	124.6305	1773.81	V Q	.	.	.	.
2.500	137.5625	1877.72	V Q	.	.	.	.
2.583	151.1260	1969.42	V Q	.	.	.	.
2.667	165.3505	2065.41	V Q	.	.	.	.
2.750	180.3875	2183.37	V Q	.	.	.	.
2.833	196.2446	2302.45	V Q	.	.	.	.
2.917	212.7448	2395.82	V Q	.	.	.	.
3.000	229.8881	2489.21	V Q	.	.	.	.
3.083	247.6567	2580.00	V Q	.	.	.	.
3.167	266.0038	2664.00	V Q	.	.	.	.
3.250	284.9289	2747.92	V Q	.	.	.	.
3.333	304.3239	2816.15	V Q	.	.	.	.
3.417	324.1537	2879.30	V Q	.	.	.	.
3.500	344.4258	2943.51	V Q	.	.	.	.
3.583	365.1520	3009.44	V Q	.	.	.	.
3.667	386.3035	3071.20	V Q	.	.	.	.
3.750	407.8557	3129.39	.V Q	.	.	.	.
3.833	429.7854	3184.19	.V Q	.	.	.	.
3.917	452.0490	3232.67	.V Q	.	.	.	.

4.000	474.6255	3278.11	.V	Q	.	.	.	.
4.083	497.4756	3317.82	.V	Q	.	.	.	.
4.167	520.5978	3357.35	.V	Q	.	.	.	.
4.250	543.9783	3394.84	.V	Q	.	.	.	.
4.333	567.6141	3431.91	.V	Q	.	.	.	.
4.417	591.5027	3468.64	.V	Q	.	.	.	.
4.500	615.6335	3503.79	.V	Q	.	.	.	.
4.583	640.0064	3538.94	.V	Q	.	.	.	.
4.667	664.6119	3572.72	.V	Q	.	.	.	.
4.750	689.4120	3600.98	.V	Q	.	.	.	.
4.833	714.4049	3628.96	.V	Q	.	.	.	.
4.917	739.5913	3657.07	.V	Q	.	.	.	.
5.000	764.9723	3685.32	.V	Q	.	.	.	.
5.083	790.5236	3710.04	.V	Q	.	.	.	.
5.167	816.2314	3732.79	.V	Q	.	.	.	.
5.250	842.0967	3755.63	.V	Q	.	.	.	.
5.333	868.1208	3778.70	.V	Q	.	.	.	.
5.417	894.3046	3801.89	.V	Q	.	.	.	.
5.500	920.6495	3825.28	.V	Q	.	.	.	.
5.583	947.1563	3848.79	.V	Q	.	.	.	.
5.667	973.8083	3869.88	.V	Q	.	.	.	.
5.750	1000.5751	3886.53	.V	Q	.	.	.	.
5.833	1027.4575	3903.32	.V	Q	.	.	.	.
5.917	1054.4563	3920.22	.V	Q	.	.	.	.
6.000	1081.5729	3937.33	.V	Q	.	.	.	.
6.083	1108.8082	3954.57	.V	Q	.	.	.	.
6.167	1136.1638	3972.02	.V	Q	.	.	.	.
6.250	1163.6404	3989.60	.V	Q	.	.	.	.
6.333	1191.2395	4007.39	.V	Q	.	.	.	.
6.417	1218.9619	4025.30	.V	Q	.	.	.	.
6.500	1246.8094	4043.46	.V	Q	.	.	.	.
6.583	1274.7827	4061.72	.V	Q	.	.	.	.
6.667	1302.8835	4080.24	.V	Q	.	.	.	.
6.750	1331.1127	4098.87	.V	Q	.	.	.	.
6.833	1359.4720	4117.78	.V	Q	.	.	.	.
6.917	1387.9626	4136.83	.V	Q	.	.	.	.
7.000	1416.5862	4156.13	.V	Q	.	.	.	.
7.083	1445.3436	4175.58	.V	Q	.	.	.	.
7.167	1474.2368	4195.30	.V	Q	.	.	.	.
7.250	1503.2670	4215.17	.V	Q	.	.	.	.
7.333	1532.4358	4235.32	.V	Q	.	.	.	.
7.417	1561.7445	4255.62	.V	Q	.	.	.	.
7.500	1591.1949	4276.21	.V	Q	.	.	.	.
7.583	1620.7883	4296.97	.V	Q	.	.	.	.
7.667	1650.5267	4318.02	.V	Q	.	.	.	.
7.750	1680.4114	4339.25	.V	Q	.	.	.	.
7.833	1710.4443	4360.79	.V	Q	.	.	.	.
7.917	1740.6268	4382.50	.V	Q	.	.	.	.
8.000	1770.9612	4404.55	.V	Q	.	.	.	.
8.083	1801.4486	4426.78	.V	Q	.	.	.	.
8.167	1832.0914	4449.34	.V	Q	.	.	.	.
8.250	1862.8762	4469.95	.V	Q	.	.	.	.
8.333	1893.8043	4490.76	.V	Q	.	.	.	.
8.417	1924.8772	4511.77	.V	Q	.	.	.	.
8.500	1956.0972	4533.14	.V	Q	.	.	.	.
8.583	1987.4657	4554.72	.V	Q	.	.	.	.
8.667	2018.9855	4576.67	.V	Q	.	.	.	.
8.750	2050.6580	4598.84	.V	Q	.	.	.	.

8.833	2082.4858	4621.40	.	V	Q	.	.	.
8.917	2114.4707	4644.19	.	V	Q	.	.	.
9.000	2146.6152	4667.38	.	V	Q	.	.	.
9.083	2178.9211	4690.82	.	V	Q	.	.	.
9.167	2211.3914	4714.68	.	V	Q	.	.	.
9.250	2244.0276	4738.80	.	V	Q	.	.	.
9.333	2276.8330	4763.36	.	V	Q	.	.	.
9.417	2309.8096	4788.19	.	V	Q	.	.	.
9.500	2342.9602	4813.49	.	V	Q	.	.	.
9.583	2376.2871	4839.07	.	V	Q	.	.	.
9.667	2409.7935	4865.14	.	V	Q	.	.	.
9.750	2443.4814	4891.51	.	V	Q	.	.	.
9.833	2477.3547	4918.39	.	V	Q	.	.	.
9.917	2511.4153	4945.59	.	V	Q	.	.	.
10.000	2545.6667	4973.32	.	V	Q	.	.	.
10.083	2580.1116	5001.40	.	V	Q	.	.	.
10.167	2614.7537	5030.04	.	V	Q	.	.	.
10.250	2649.5955	5059.03	.	V	Q	.	.	.
10.333	2684.6411	5088.62	.	V	Q	.	.	.
10.417	2719.8931	5118.59	.	V	Q	.	.	.
10.500	2755.3557	5149.19	.	V	Q	.	.	.
10.583	2791.0320	5180.19	.	V	Q	.	.	.
10.667	2826.9263	5211.85	.	V	Q	.	.	.
10.750	2863.0415	5243.94	.	V	Q	.	.	.
10.833	2899.3826	5276.73	.	V	Q	.	.	.
10.917	2935.9526	5309.98	.	V	.Q	.	.	.
11.000	2972.7568	5343.96	.	V	.Q	.	.	.
11.083	3009.7983	5378.44	.	V	.Q	.	.	.
11.167	3047.0828	5413.69	.	V	.Q	.	.	.
11.250	3084.6135	5449.48	.	V	.Q	.	.	.
11.333	3122.3965	5486.09	.	V	.Q	.	.	.
11.417	3160.4355	5523.27	.	V	.Q	.	.	.
11.500	3198.7366	5561.32	.	V	.Q	.	.	.
11.583	3237.3040	5599.98	.	V	.Q	.	.	.
11.667	3276.1440	5639.58	.	V	.Q	.	.	.
11.750	3315.2612	5679.83	.	V	.Q	.	.	.
11.833	3354.6626	5721.07	.	V	.Q	.	.	.
11.917	3394.3528	5763.03	.	V	.Q	.	.	.
12.000	3434.3394	5806.04	.	V	.Q	.	.	.
12.083	3474.7136	5862.33	.	V	.Q	.	.	.
12.167	3515.5691	5932.23	.	V	.Q	.	.	.
12.250	3556.9109	6002.81	.	V	.Q	.	.	.
12.333	3598.7463	6074.49	.	V	.Q	.	.	.
12.417	3641.0806	6146.91	.	V	.Q	.	.	.
12.500	3683.9666	6227.03	.	V	.Q	.	.	.
12.583	3727.4546	6314.46	.	V	.Q	.	.	.
12.667	3771.5530	6403.08	.	V	.Q	.	.	.
12.750	3816.3235	6500.66	.	V	.Q	.	.	.
12.833	3861.9297	6622.01	.	V	.Q	.	.	.
12.917	3908.4514	6754.95	.	V	.Q	.	.	.
13.000	3956.0105	6905.58	.	V	.Q	.	.	.
13.083	4004.7319	7074.35	.	V	.Q	.	.	.
13.167	4054.6008	7240.97	.	V	.Q	.	.	.
13.250	4105.6255	7408.80	.	V	.Q	.	.	.
13.333	4158.0664	7614.40	.	V	.Q	.	.	.
13.417	4211.7651	7797.06	.	V	.Q	.	.	.
13.500	4266.6919	7975.37	.	V	.Q	.	.	.
13.583	4323.0239	8179.42	.	V	.Q	.	.	.

13.667	4380.8555	8397.11	.	.V	Q	.	.	.
13.750	4439.9854	8585.66	.	.V	Q	.	.	.
13.833	4500.5205	8789.68	.	.V	Q	.	.	.
13.917	4562.5952	9013.21	.	.V	Q	.	.	.
14.000	4626.4126	9266.25	.	.V	Q	.	.	.
14.083	4691.8242	9497.79	.	.V	Q	.	.	.
14.167	4759.0166	9756.31	.	.V	Q	.	.	.
14.250	4828.2471	10052.26	.	.V	Q	.	.	.
14.333	4899.4829	10343.46	.	.V	.Q	.	.	.
14.417	4972.9185	10662.83	.	.V	.Q	.	.	.
14.500	5048.2510	10938.30	.	.V	.Q	.	.	.
14.583	5125.3677	11197.34	.	.V	.Q	.	.	.
14.667	5204.3179	11463.58	.	.V	.Q	.	.	.
14.750	5285.4219	11776.28	.	.V	.Q	.	.	.
14.833	5368.8389	12112.13	.	.V	.Q	.	.	.
14.917	5454.3066	12409.92	.	.V	.Q	.	.	.
15.000	5541.9219	12721.71	.	.V	.Q	.	.	.
15.083	5631.7485	13042.83	.	.V	.Q	.	.	.
15.167	5723.6553	13344.88	.	.V	.Q	.	.	.
15.250	5817.6167	13643.23	.	.V	.Q	.	.	.
15.333	5913.6606	13945.60	.	.V	.Q	.	.	.
15.417	6011.4165	14194.16	.	.V	.Q	.	.	.
15.500	6110.7222	14419.18	.	.V	.Q	.	.	.
15.583	6211.7637	14671.20	.	.V	.Q	.	.	.
15.667	6314.5625	14926.38	.	.V	.Q	.	.	.
15.750	6418.8135	15137.27	.	.V	.Q	.	.	.
15.833	6524.4639	15340.43	.	.V	.Q	.	.	.
15.917	6631.5576	15550.00	.	.V	.Q	.	.	.
16.000	6740.3560	15797.52	.	.V	.Q	.	.	.
16.083	6851.3750	16119.95	.	.V	.Q	.	.	.
16.167	6964.3325	16401.40	.	.V	.Q	.	.	.
16.250	7078.3843	16560.33	.	.V	.Q	.	.	.
16.333	7193.3428	16692.01	.	.V	.Q	.	.	.
16.417	7309.3711	16847.30	.	.V	.Q	.	.	.
16.500	7426.6626	17030.74	.	.V	.Q	.	.	.
16.583	7545.0552	17190.63	.	.V	.Q	.	.	.
16.667	7663.8735	17252.44	.	.V	.Q	.	.	.
16.750	7784.2388	17477.06	.	.V	.Q	.	.	.
16.833	7907.3247	17872.09	.	.V	.Q	.	.	.
16.917	8031.8008	18073.92	.	.V	.Q	.	.	.
17.000	8157.7949	18294.37	.	.V	.Q	.	.	.
17.083	8285.4600	18536.95	.	.V	.Q	.	.	.
17.167	8413.2432	18554.15	.	.V	.Q	.	.	.
17.250	8541.3291	18598.11	.	.V	.Q	.	.	.
17.333	8671.6348	18920.38	.	.V	.Q	.	.	.
17.417	8800.4062	18697.56	.	.V	.Q	.	.	.
17.500	8929.0869	18684.50	.	.V	.Q	.	.	.
17.583	9059.2471	18899.20	.	.V	.Q	.	.	.
17.667	9189.9990	18985.16	.	.V	.Q	.	.	.
17.750	9318.1650	18609.68	.	.V	.Q	.	.	.
17.833	9447.3906	18763.51	.	.V	.Q	.	.	.
17.917	9578.0000	18964.42	.	.V	.Q	.	.	.
18.000	9710.3105	19211.52	.	.V	.Q	.	.	.
18.083	9839.0664	18695.33	.	.V	.Q	.	.	.
18.167	9968.2295	18754.46	.	.V	.Q	.	.	.
18.250	10099.9150	19120.73	.	.V	.Q	.	.	.
18.333	10230.8633	19013.64	.	.V	.Q	.	.	.
18.417	10362.7021	19142.95	.	.V	.Q	.	.	.

18.500	10489.8955	18468.52	.	.	.	V	.	Q
18.583	10615.2588	18202.82	.	.	.	V	.	Q
18.667	10741.2422	18292.76	.	.	.	V	.	Q
18.750	10870.1953	18723.94	.	.	.	V	.	Q
18.833	10998.3037	18601.32	.	.	.	V	.	Q
18.917	11121.7930	17930.70	.	.	.	V	.	Q
19.000	11243.9082	17731.11	.	.	.	V	.	Q
19.083	11364.6709	17534.80	.	.	.	V	.	Q
19.167	11483.5029	17254.48	.	.	.	V	.	Q
19.250	11600.5625	16997.05	.	.	.	V	.	Q
19.333	11713.6982	16427.36	.	.	.	V	.	Q
19.417	11824.4863	16086.42	.	.	.	V	.	Q
19.500	11933.9531	15894.64	.	.	.	V	.	Q
19.583	12042.1299	15707.31	.	.	.	V	.	Q
19.667	12147.7871	15341.48	.	.	.	VQ	.	.
19.750	12250.7607	14951.73	.	.	.	Q	.	.
19.833	12350.8838	14537.86	.	.	.	QV	.	.
19.917	12447.9727	14097.32	.	.	.	Q.V	.	.
20.000	12542.2100	13683.21	.	.	.	Q.V	.	.
20.083	12633.6016	13270.00	.	.	.	Q	.	V
20.167	12722.8271	12955.56	.	.	.	Q	.	V
20.250	12809.2578	12549.80	.	.	.	Q	.	V
20.333	12893.2783	12199.77	.	.	.	Q	.	V
20.417	12974.7432	11828.70	.	.	.	Q	.	V
20.500	13053.8330	11483.79	.	.	.	Q	.	V
20.583	13130.7900	11174.10	.	.	.	Q	.	V
20.667	13205.3525	10826.54	.	.	.	Q	.	V
20.750	13276.8291	10378.35	.	.	.	Q	.	V
20.833	13345.9434	10035.36	.	.	.	Q	.	V
20.917	13413.1250	9754.79	.	.	.	Q	.	V
21.000	13478.3936	9477.02	.	.	.	Q	.	V
21.083	13541.3926	9147.42	.	.	.	Q	.	V
21.167	13602.4414	8864.27	.	.	.	Q	.	V
21.250	13661.8623	8627.92	.	.	.	Q	.	V
21.333	13719.8867	8425.21	.	.	.	Q	.	V
21.417	13776.5596	8228.95	.	.	.	Q	.	V
21.500	13831.8291	8025.15	.	.	.	Q	.	V
21.583	13885.6084	7808.82	.	.	.	Q	.	V
21.667	13937.6055	7550.03	.	.	.	Q	.	V
21.750	13987.7529	7281.41	.	.	.	Q	.	V
21.833	14036.7305	7111.60	.	.	.	Q	.	V
21.917	14084.6484	6957.63	.	.	.	Q	.	V
22.000	14131.5342	6807.75	.	.	.	Q	.	V
22.083	14177.4463	6666.50	.	.	.	Q	.	V
22.167	14222.4209	6530.38	.	.	.	Q	.	V
22.250	14266.4678	6395.58	.	.	.	Q	.	V
22.333	14309.5996	6262.71	.	.	.	Q	.	V
22.417	14351.8330	6132.23	.	.	.	Q	.	V
22.500	14393.2002	6006.46	.	.	.	Q	.	V
22.583	14433.7041	5881.16	.	.	.	Q	.	V
22.667	14473.4141	5765.86	.	.	.	Q	.	V
22.750	14512.4609	5669.56	.	.	.	Q	.	V
22.833	14550.8711	5577.10	.	.	.	Q	.	V
22.917	14588.6543	5486.12	.	.	.	Q	.	V
23.000	14625.8242	5397.13	.	.	.	Q	.	V
23.083	14662.4385	5316.44	.	.	.	Q	.	V
23.167	14698.5361	5241.41	.	.	.	Q	.	V
23.250	14734.1289	5168.10	.	.	.	Q	.	V

23.333	14769.2275	5096.34	.	Q	.	.	V	.
23.417	14803.8428	5026.13	.	Q	.	.	V	.
23.500	14837.9844	4957.31	.	Q	.	.	V	.
23.583	14871.6963	4895.04	.	Q	.	.	V	.
23.667	14905.0215	4838.76	.	Q	.	.	V	.
23.750	14938.0195	4791.30	.	Q	.	.	V	.
23.833	14970.6963	4744.70	.	Q	.	.	V	.
23.917	15003.0703	4700.64	.	Q	.	.	V	.
24.000	15035.1436	4656.97	.	Q	.	.	V	.
24.083	15066.8545	4604.47	.	Q	.	.	V	.
24.167	15098.1387	4542.40	.	Q	.	.	V	.
24.250	15128.7393	4443.25	.	Q	.	.	V	.
24.333	15158.9424	4385.55	.	Q	.	.	V	.
24.417	15188.7744	4331.63	.	Q	.	.	V	.
24.500	15218.2236	4276.03	.	Q	.	.	V	.
24.583	15247.2402	4213.20	.	Q	.	.	V	.
24.667	15275.8252	4150.56	.	Q	.	.	V	.
24.750	15303.9521	4083.96	.	Q	.	.	V	.
24.833	15331.5371	4005.40	.	Q	.	.	V	.
24.917	15358.5439	3921.46	.	Q	.	.	V	.
25.000	15384.9150	3829.01	.	Q	.	.	V	.
25.083	15410.5869	3727.58	.	Q	.	.	V	.
25.167	15435.5781	3628.71	.	Q	.	.	V	.
25.250	15459.9180	3534.13	.	Q	.	.	V	.
25.333	15483.4746	3420.49	.	Q	.	.	V	.
25.417	15506.3467	3321.01	.	Q	.	.	V	.
25.500	15528.5615	3225.55	.	Q	.	.	V	.
25.583	15550.0293	3117.17	.	Q	.	.	V	.
25.667	15570.7100	3002.85	.	Q	.	.	V	.
25.750	15590.7246	2906.09	.	Q	.	.	V	.
25.833	15610.0244	2802.31	.	Q	.	.	V	.
25.917	15628.5439	2689.10	.	Q	.	.	V	.
26.000	15646.1826	2561.11	.	Q	.	.	V	.
26.083	15663.0791	2453.31	.	Q	.	.	V	.
26.167	15679.1865	2338.74	.	Q	.	.	V	.
26.250	15694.3945	2208.18	.	Q	.	.	V	.
26.333	15708.7305	2081.62	.	Q	.	.	V	.
26.417	15722.0938	1940.32	.	Q	.	.	V	.
26.500	15734.6836	1828.10	.	Q	.	.	V	.
26.583	15746.5928	1729.25	.	Q	.	.	V	.
26.667	15757.7998	1627.24	.	Q	.	.	V	.
26.750	15768.1602	1504.34	.	Q	.	.	V	.
26.833	15777.6758	1381.61	.	Q	.	.	V	.
26.917	15786.5312	1285.78	.	Q	.	.	V	.
27.000	15794.7334	1191.00	.	Q	.	.	V	.
27.083	15802.3076	1099.76	.	Q	.	.	V	.
27.167	15809.3066	1016.32	.	Q	.	.	V	.
27.250	15815.7373	933.80	.	Q	.	.	V	.
27.333	15821.7139	867.86	.	Q	.	.	V	.
27.417	15827.2764	807.71	.	Q	.	.	V	.
27.500	15832.4219	747.20	.	Q	.	.	V	.
27.583	15837.1436	685.62	.	Q	.	.	V	.
27.667	15841.4746	628.90	.	Q	.	.	V	.
27.750	15845.4443	576.37	.	Q	.	.	V	.
27.833	15849.0801	527.85	.	Q	.	.	V	.
27.917	15852.4287	486.17	.	Q	.	.	V	.
28.000	15855.5146	448.06	.	Q	.	.	V	.
28.083	15858.3809	416.11	.	Q	.	.	V	.

28.167	15861.0312	384.78	Q	.	.	.	V	.
28.250	15863.4824	355.89	Q	.	.	.	V	.
28.333	15865.7402	327.81	Q	.	.	.	V	.
28.417	15867.8096	300.43	Q	.	.	.	V	.
28.500	15869.7041	275.02	Q	.	.	.	V	.
28.583	15871.4258	249.95	Q	.	.	.	V	.
28.667	15872.9863	226.63	Q	.	.	.	V	.
28.750	15874.4268	209.12	Q	.	.	.	V	.
28.833	15875.7510	192.22	Q	.	.	.	V	.
28.917	15876.9590	175.44	Q	.	.	.	V	.
29.000	15878.0527	158.85	Q	.	.	.	V	.
29.083	15879.0586	146.02	Q	.	.	.	V	.
29.167	15879.9912	135.46	Q	.	.	.	V	.
29.250	15880.8516	124.99	Q	.	.	.	V	.
29.333	15881.6406	114.58	Q	.	.	.	V	.
29.417	15882.3584	104.24	Q	.	.	.	V	.
29.500	15883.0059	93.97	Q	.	.	.	V	.
29.583	15883.5830	83.79	Q	.	.	.	V	.
29.667	15884.1084	76.31	Q	.	.	.	V	.
29.750	15884.6143	73.42	Q	.	.	.	V	.
29.833	15885.1006	70.63	Q	.	.	.	V	.
29.917	15885.5684	67.87	Q	.	.	.	V	.
30.000	15886.0166	65.12	Q	.	.	.	V	.
30.083	15886.4463	62.39	Q	.	.	.	V	.
30.167	15886.8574	59.68	Q	.	.	.	V	.
30.250	15887.2500	56.99	Q	.	.	.	V	.
30.333	15887.6240	54.33	Q	.	.	.	V	.
30.417	15887.9805	51.69	Q	.	.	.	V	.
30.500	15888.3184	49.05	Q	.	.	.	V	.
30.583	15888.6387	46.47	Q	.	.	.	V	.
30.667	15888.9404	43.88	Q	.	.	.	V	.
30.750	15889.2246	41.33	Q	.	.	.	V	.
30.833	15889.4912	38.78	Q	.	.	.	V	.
30.917	15889.7412	36.24	Q	.	.	.	V	.
31.000	15889.9736	33.72	Q	.	.	.	V	.
31.083	15890.1885	31.22	Q	.	.	.	V	.
31.167	15890.3867	28.74	Q	.	.	.	V	.
31.250	15890.5674	26.27	Q	.	.	.	V	.
31.333	15890.7314	23.82	Q	.	.	.	V	.
31.417	15890.8789	21.38	Q	.	.	.	V	.
31.500	15891.0098	18.96	Q	.	.	.	V	.
31.583	15891.1240	16.56	Q	.	.	.	V	.
31.667	15891.2217	14.17	Q	.	.	.	V	.
31.750	15891.3027	11.80	Q	.	.	.	V	.
31.833	15891.3682	9.44	Q	.	.	.	V	.
31.917	15891.4170	7.09	Q	.	.	.	V	.
32.000	15891.4502	4.76	Q	.	.	.	V	.
32.083	15891.4668	2.45	Q	.	.	.	V	.
32.167	15891.4678	0.14	Q	.	.	.	V	.

-----

TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:

(Note: 100% of Peak Flow Rate estimate assumed to have an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
=====	=====
0%	1930.0



10%	1435.0
20%	1165.0
30%	645.0
40%	495.0
50%	410.0
60%	345.0
70%	290.0
80%	225.0
90%	145.0

=====  
END OF FLOODSCx ROUTING ANALYSIS

\*\*\*\*\*

FLOOD ROUTING ANALYSIS
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)
(c) Copyright 1989-2013 Advanced Engineering Software (aes)
Ver. 20.0 Release Date: 06/01/2013 License ID 1237

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*
\* RMV PA-3 ROMP AMENDMENT 2022 - NODE 133T \*
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*
\* 50-YR EV OCT 2022 ROKAMOTO \*

FILE NAME: EV5033TS.DAT
TIME/DATE OF STUDY: 10:12 10/25/2022

\*\*\*\*\*

FLOW PROCESS FROM NODE 13010.00 TO NODE 133.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<

\*\*\*\*\*

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 6638.200 ACRES
BASEFLOW = 0.000 CFS/SQUARE-MILE
\*USER ENTERED "LAG" TIME = 1.153 HOURS
VALLEY (DEVELOPED) S-GRAPH SELECTED
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.239
LOW LOSS FRACTION = 0.498
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.37
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.80
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 1.06
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 1.78
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 2.47
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 4.12

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:
5-MINUTE FACTOR = 0.744
30-MINUTE FACTOR = 0.744
1-HOUR FACTOR = 0.744
3-HOUR FACTOR = 0.959
6-HOUR FACTOR = 0.978
24-HOUR FACTOR = 0.987

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 7.228

UNIT HYDROGRAPH DETERMINATION

Table with 3 columns: INTERVAL NUMBER, "S" GRAPH MEAN VALUES, UNIT HYDROGRAPH ORDINATES (CFS). Rows 1-48.

-----  
TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 1016.1733  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 1231.5459  
-----

=====

2 4 - 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 FIVE-MINUTE UNIT INTERVALS (CFS)  
(Note: Time indicated is at END of Each Unit Intervals)

TIME (HRS)	VOLUME (AF)	Q (CFS)	0.	875.0	1750.0	2625.0	3500.0
0.083	0.0061	0.88	Q	.	.	.	.
0.167	0.0243	2.65	Q	.	.	.	.
0.250	0.0558	4.57	Q	.	.	.	.
0.333	0.1053	7.19	Q	.	.	.	.
0.417	0.1812	11.01	Q	.	.	.	.
0.500	0.2991	17.13	Q	.	.	.	.
0.583	0.4709	24.94	Q	.	.	.	.
0.667	0.7041	33.87	Q	.	.	.	.
0.750	0.9995	42.89	Q	.	.	.	.
0.833	1.3664	53.27	Q	.	.	.	.
0.917	1.8017	63.21	Q	.	.	.	.
1.000	2.3210	75.39	Q	.	.	.	.
1.083	2.9239	87.54	VQ	.	.	.	.
1.167	3.6291	102.40	VQ	.	.	.	.
1.250	4.4270	115.86	VQ	.	.	.	.
1.333	5.3099	128.19	VQ	.	.	.	.
1.417	6.2870	141.88	VQ	.	.	.	.
1.500	7.3415	153.11	VQ	.	.	.	.
1.583	8.4664	163.34	VQ	.	.	.	.
1.667	9.6476	171.52	VQ	.	.	.	.
1.750	10.8811	179.09	V Q	.	.	.	.
1.833	12.1631	186.15	V Q	.	.	.	.
1.917	13.4859	192.07	V Q	.	.	.	.
2.000	14.8411	196.78	V Q	.	.	.	.
2.083	16.2247	200.91	V Q	.	.	.	.
2.167	17.6352	204.79	V Q	.	.	.	.
2.250	19.0707	208.45	V Q	.	.	.	.
2.333	20.5271	211.46	V Q	.	.	.	.
2.417	22.0020	214.16	V Q	.	.	.	.
2.500	23.4930	216.50	V Q	.	.	.	.
2.583	24.9976	218.47	V Q	.	.	.	.
2.667	26.5160	220.47	V Q	.	.	.	.
2.750	28.0474	222.36	V Q	.	.	.	.
2.833	29.5872	223.58	V Q	.	.	.	.
2.917	31.1346	224.68	.VQ	.	.	.	.
3.000	32.6896	225.79	.VQ	.	.	.	.
3.083	34.2524	226.91	.VQ	.	.	.	.
3.167	35.8229	228.04	.VQ	.	.	.	.
3.250	37.4012	229.18	.VQ	.	.	.	.
3.333	38.9875	230.33	.VQ	.	.	.	.
3.417	40.5817	231.48	.VQ	.	.	.	.
3.500	42.1840	232.65	.VQ	.	.	.	.
3.583	43.7943	233.82	.VQ	.	.	.	.
3.667	45.4128	235.01	.VQ	.	.	.	.
3.750	47.0395	236.20	.VQ	.	.	.	.
3.833	48.6746	237.41	.VQ	.	.	.	.
3.917	50.3180	238.62	.VQ	.	.	.	.

4.000	51.9694	239.79	.VQ	.	.	.	.
4.083	53.6273	240.73	.VQ	.	.	.	.
4.167	55.2919	241.69	.VQ	.	.	.	.
4.250	56.9630	242.65	.VQ	.	.	.	.
4.333	58.6410	243.63	.VQ	.	.	.	.
4.417	60.3257	244.62	.VQ	.	.	.	.
4.500	62.0173	245.62	. Q	.	.	.	.
4.583	63.7158	246.63	. Q	.	.	.	.
4.667	65.4214	247.65	. Q	.	.	.	.
4.750	67.1340	248.68	. Q	.	.	.	.
4.833	68.8539	249.72	. Q	.	.	.	.
4.917	70.5809	250.77	. Q	.	.	.	.
5.000	72.3153	251.84	. Q	.	.	.	.
5.083	74.0572	252.91	. Q	.	.	.	.
5.167	75.8065	254.00	. Q	.	.	.	.
5.250	77.5634	255.10	. Q	.	.	.	.
5.333	79.3280	256.22	. Q	.	.	.	.
5.417	81.1003	257.34	. Q	.	.	.	.
5.500	82.8805	258.48	. Q	.	.	.	.
5.583	84.6686	259.63	. Q	.	.	.	.
5.667	86.4648	260.80	. Q	.	.	.	.
5.750	88.2691	261.98	. Q	.	.	.	.
5.833	90.0816	263.18	. VQ	.	.	.	.
5.917	91.9024	264.38	. VQ	.	.	.	.
6.000	93.7316	265.61	. Q	.	.	.	.
6.083	95.5694	266.84	. Q	.	.	.	.
6.167	97.4158	268.10	. Q	.	.	.	.
6.250	99.2709	269.36	. Q	.	.	.	.
6.333	101.1349	270.65	. Q	.	.	.	.
6.417	103.0078	271.95	. Q	.	.	.	.
6.500	104.8898	273.27	. Q	.	.	.	.
6.583	106.7810	274.60	. Q	.	.	.	.
6.667	108.6815	275.95	. Q	.	.	.	.
6.750	110.5913	277.31	. Q	.	.	.	.
6.833	112.5108	278.70	. Q	.	.	.	.
6.917	114.4399	280.10	. Q	.	.	.	.
7.000	116.3788	281.53	. Q	.	.	.	.
7.083	118.3276	282.97	. Q	.	.	.	.
7.167	120.2865	284.43	. Q	.	.	.	.
7.250	122.2556	285.91	. Q	.	.	.	.
7.333	124.2350	287.41	. QV	.	.	.	.
7.417	126.2249	288.93	. QV	.	.	.	.
7.500	128.2254	290.48	. QV	.	.	.	.
7.583	130.2367	292.04	. QV	.	.	.	.
7.667	132.2589	293.63	. QV	.	.	.	.
7.750	134.2922	295.23	. QV	.	.	.	.
7.833	136.3368	296.87	. QV	.	.	.	.
7.917	138.3927	298.52	. QV	.	.	.	.
8.000	140.4603	300.21	. QV	.	.	.	.
8.083	142.5396	301.91	. QV	.	.	.	.
8.167	144.6308	303.65	. QV	.	.	.	.
8.250	146.7341	305.40	. QV	.	.	.	.
8.333	148.8497	307.19	. QV	.	.	.	.
8.417	150.9778	308.99	. QV	.	.	.	.
8.500	153.1186	310.84	. QV	.	.	.	.
8.583	155.2722	312.70	. Q V	.	.	.	.
8.667	157.4389	314.61	. Q V	.	.	.	.
8.750	159.6189	316.53	. Q V	.	.	.	.

8.833	161.8124	318.50	. Q V	.	.	.	.
8.917	164.0195	320.48	. Q V	.	.	.	.
9.000	166.2407	322.51	. Q V	.	.	.	.
9.083	168.4760	324.57	. Q V	.	.	.	.
9.167	170.7258	326.67	. Q V	.	.	.	.
9.250	172.9902	328.79	. Q V	.	.	.	.
9.333	175.2695	330.96	. Q V	.	.	.	.
9.417	177.5640	333.16	. Q V	.	.	.	.
9.500	179.8740	335.41	. Q V	.	.	.	.
9.583	182.1996	337.68	. Q V	.	.	.	.
9.667	184.5413	340.01	. Q V	.	.	.	.
9.750	186.8992	342.37	. Q V	.	.	.	.
9.833	189.2738	344.79	. Q V	.	.	.	.
9.917	191.6652	347.23	. Q V	.	.	.	.
10.000	194.0739	349.74	. Q V	.	.	.	.
10.083	196.5001	352.28	. Q V	.	.	.	.
10.167	198.9442	354.89	. Q V	.	.	.	.
10.250	201.4065	357.53	. Q V	.	.	.	.
10.333	203.8875	360.24	. Q V	.	.	.	.
10.417	206.3874	362.98	. Q V	.	.	.	.
10.500	208.9066	365.80	. Q V	.	.	.	.
10.583	211.4456	368.66	. Q V	.	.	.	.
10.667	214.0048	371.59	. Q V	.	.	.	.
10.750	216.5845	374.57	. Q V	.	.	.	.
10.833	219.1853	377.64	. Q V	.	.	.	.
10.917	221.8075	380.75	. Q V	.	.	.	.
11.000	224.4518	383.94	. Q V	.	.	.	.
11.083	227.1184	387.19	. Q V	.	.	.	.
11.167	229.8080	390.53	. Q V	.	.	.	.
11.250	232.5211	393.93	. Q V	.	.	.	.
11.333	235.2582	397.43	. Q V	.	.	.	.
11.417	238.0198	400.99	. Q V	.	.	.	.
11.500	240.8067	404.66	. Q V	.	.	.	.
11.583	243.6193	408.39	. Q V	.	.	.	.
11.667	246.4583	412.24	. Q V	.	.	.	.
11.750	249.3244	416.15	. Q V	.	.	.	.
11.833	252.2184	420.20	. Q V	.	.	.	.
11.917	255.1407	424.32	. Q V	.	.	.	.
12.000	258.0923	428.58	. Q V	.	.	.	.
12.083	261.0788	433.63	. Q V	.	.	.	.
12.167	264.1060	439.54	. Q V	.	.	.	.
12.250	267.1753	445.67	. Q V	.	.	.	.
12.333	270.2918	452.52	. Q V	.	.	.	.
12.417	273.4628	460.43	. Q V	.	.	.	.
12.500	276.7021	470.35	. Q V	.	.	.	.
12.583	280.0200	481.75	. Q V	.	.	.	.
12.667	283.4237	494.23	. Q V	.	.	.	.
12.750	286.9148	506.90	. Q V	.	.	.	.
12.833	290.5021	520.88	. Q V	.	.	.	.
12.917	294.1841	534.62	. Q V	.	.	.	.
13.000	297.9747	550.40	. Q V	.	.	.	.
13.083	301.8748	566.30	. Q V	.	.	.	.
13.167	305.9011	584.61	. Q V	.	.	.	.
13.250	310.0469	601.97	. Q V	.	.	.	.
13.333	314.3080	618.70	. Q V	.	.	.	.
13.417	318.6930	636.71	. Q V	.	.	.	.
13.500	323.1906	653.05	. Q V	.	.	.	.
13.583	327.7967	668.80	. Q V	.	.	.	.

13.667	332.5022	683.25	.	Q	V	.	.	.
13.750	337.3057	697.46	.	Q	V	.	.	.
13.833	342.2068	711.65	.	Q	.V	.	.	.
13.917	347.2014	725.21	.	Q	.V	.	.	.
14.000	352.2857	738.24	.	Q	.V	.	.	.
14.083	357.4698	752.73	.	Q	.V	.	.	.
14.167	362.7666	769.10	.	Q	.V	.	.	.
14.250	368.1792	785.91	.	Q	.V	.	.	.
14.333	373.7164	804.00	.	Q	.V	.	.	.
14.417	379.3940	824.39	.	Q	.V	.	.	.
14.500	385.2426	849.21	.	Q	.V	.	.	.
14.583	391.2838	877.17	.	Q	V	.	.	.
14.667	397.5356	907.76	.	Q	V	.	.	.
14.750	404.0015	938.85	.	Q	V	.	.	.
14.833	410.6993	972.53	.	.Q	V	.	.	.
14.917	417.6263	1005.79	.	.Q	V	.	.	.
15.000	424.8157	1043.91	.	.Q	V	.	.	.
15.083	432.2728	1082.77	.	.	Q	V	.	.
15.167	440.0397	1127.75	.	.	Q	V	.	.
15.250	448.1073	1171.42	.	.	Q	V	.	.
15.333	456.4736	1214.78	.	.	Q	V	.	.
15.417	465.1393	1258.26	.	.	Q	V	.	.
15.500	474.0640	1295.86	.	.	Q	V	.	.
15.583	483.2502	1333.84	.	.	Q	V	.	.
15.667	492.6779	1368.90	.	.	Q	V	.	.
15.750	502.3381	1402.67	.	.	Q	V	.	.
15.833	512.2044	1432.58	.	.	Q	V	.	.
15.917	522.2888	1464.26	.	.	Q	V	.	.
16.000	532.6876	1509.90	.	.	Q	V	.	.
16.083	543.9142	1630.10	.	.	Q	V	.	.
16.167	555.9641	1749.64	.	.	Q	V	.	.
16.250	568.5558	1828.32	.	.	Q	V	.	.
16.333	582.0397	1957.87	.	.	Q	V	.	.
16.417	596.8431	2149.45	.	.	Q	V	.	.
16.500	613.4393	2409.76	.	.	Q	V	.	.
16.583	631.3632	2602.55	.	.	Q	V	.	.
16.667	650.2018	2735.38	.	.	Q	V	.	.
16.750	669.3168	2775.50	.	.	Q	V	.	.
16.833	689.4313	2920.63	.	.	Q	V	.	.
16.917	709.7371	2948.39	.	.	Q	V	.	.
17.000	731.5887	3172.87	.	.	Q	V	.	.
17.083	753.7737	3221.25	.	.	Q	V	.	.
17.167	777.2701	3411.67	.	.	Q	V	.	.
17.250	799.8107	3272.90	.	.	Q	V	.	.
17.333	821.4713	3145.10	.	.	Q	V	.	.
17.417	843.2782	3166.37	.	.	Q	V	.	.
17.500	863.2065	2893.59	.	.	Q	V	.	.
17.583	881.8264	2703.60	.	.	Q	V	.	.
17.667	898.6975	2449.69	.	.	Q	V	.	.
17.750	914.6903	2322.15	.	.	Q	V	.	.
17.833	929.7641	2188.71	.	.	Q	V	.	.
17.917	943.6025	2009.34	.	.	Q	V	.	.
18.000	956.1693	1824.70	.	.	Q	V	.	.
18.083	967.8914	1702.05	.	.	Q	V	.	.
18.167	978.9662	1608.07	.	.	Q	V	.	.
18.250	989.3998	1514.95	.	.	Q	V	.	.
18.333	998.9830	1391.49	.	.	Q	V	.	.
18.417	1007.8851	1292.59	.	.	Q	V	.	.

18.500	1016.1315	1197.37	.	.	Q	.	.	V	.
18.583	1023.7831	1111.03	.	.	Q	.	.	V	.
18.667	1031.0360	1053.12	.	.	Q	.	.	V	.
18.750	1037.8219	985.30	.	.	Q	.	.	V	.
18.833	1043.8790	879.50	.	.	Q	.	.	V	.
18.917	1049.5631	825.33	.	.	Q	.	.	V	.
19.000	1054.9932	788.45	.	.	Q	.	.	V	.
19.083	1060.1958	755.42	.	.	Q	.	.	V	.
19.167	1065.1503	719.39	.	.	Q	.	.	V	.
19.250	1069.8757	686.13	.	.	Q	.	.	V	.
19.333	1074.3987	656.74	.	.	Q	.	.	V	.
19.417	1078.7301	628.92	.	.	Q	.	.	V	.
19.500	1082.8948	604.71	.	.	Q	.	.	V	.
19.583	1086.9075	582.64	.	.	Q	.	.	V	.
19.667	1090.7830	562.72	.	.	Q	.	.	V	.
19.750	1094.5255	543.42	.	.	Q	.	.	V	.
19.833	1098.1444	525.46	.	.	Q	.	.	V	.
19.917	1101.6354	506.90	.	.	Q	.	.	V	.
20.000	1104.9647	483.43	.	.	Q	.	.	V	.
20.083	1108.0697	450.84	.	.	Q	.	.	V	.
20.167	1111.0846	437.76	.	.	Q	.	.	V	.
20.250	1114.0250	426.95	.	.	Q	.	.	V	.
20.333	1116.8977	417.11	.	.	Q	.	.	V	.
20.417	1119.7009	407.04	.	.	Q	.	.	V	.
20.500	1122.4410	397.86	.	.	Q	.	.	V	.
20.583	1125.1233	389.46	.	.	Q	.	.	V	.
20.667	1127.7502	381.43	.	.	Q	.	.	V	.
20.750	1130.3246	373.80	.	.	Q	.	.	V	.
20.833	1132.8522	367.00	.	.	Q	.	.	V	.
20.917	1135.3353	360.56	.	.	Q	.	.	V	.
21.000	1137.7766	354.47	.	.	Q	.	.	V	.
21.083	1140.1803	349.02	.	.	Q	.	.	V	.
21.167	1142.5479	343.77	.	.	Q	.	.	V	.
21.250	1144.8806	338.72	.	.	Q	.	.	V	.
21.333	1147.1799	333.86	.	.	Q	.	.	V	.
21.417	1149.4469	329.17	.	.	Q	.	.	V	.
21.500	1151.6827	324.64	.	.	Q	.	.	V	.
21.583	1153.8883	320.26	.	.	Q	.	.	V	.
21.667	1156.0647	316.02	.	.	Q	.	.	V	.
21.750	1158.2129	311.92	.	.	Q	.	.	V	.
21.833	1160.3337	307.94	.	.	Q	.	.	V	.
21.917	1162.4280	304.09	.	.	Q	.	.	V	.
22.000	1164.4968	300.40	.	.	Q	.	.	V	.
22.083	1166.5422	297.00	.	.	Q	.	.	V	.
22.167	1168.5649	293.70	.	.	Q	.	.	V	.
22.250	1170.5656	290.49	.	.	Q	.	.	V	.
22.333	1172.5448	287.38	.	.	Q	.	.	V	.
22.417	1174.5032	284.36	.	.	Q	.	.	V	.
22.500	1176.4413	281.42	.	.	Q	.	.	V	.
22.583	1178.3597	278.55	.	.	Q	.	.	V	.
22.667	1180.2590	275.77	.	.	Q	.	.	V	.
22.750	1182.1396	273.06	.	.	Q	.	.	V	.
22.833	1184.0020	270.42	.	.	Q	.	.	V	.
22.917	1185.8466	267.84	.	.	Q	.	.	V	.
23.000	1187.6740	265.33	.	.	Q	.	.	V	.
23.083	1189.4844	262.88	.	.	Q	.	.	V	.
23.167	1191.2783	260.49	.	.	Q	.	.	V	.
23.250	1193.0563	258.15	.	.	Q	.	.	V	.

23.333	1194.8185	255.87	. Q	.	.	.	V .
23.417	1196.5653	253.65	. Q	.	.	.	V .
23.500	1198.2972	251.47	. Q	.	.	.	V .
23.583	1200.0145	249.34	. Q	.	.	.	V .
23.667	1201.7174	247.26	. Q	.	.	.	V .
23.750	1203.4062	245.23	. Q	.	.	.	V .
23.833	1205.0814	243.23	. Q	.	.	.	V .
23.917	1206.7432	241.28	. Q	.	.	.	V .
24.000	1208.3917	239.37	. Q	.	.	.	V .
24.083	1210.0214	236.62	. Q	.	.	.	V .
24.167	1211.6263	233.04	. Q	.	.	.	V .
24.250	1213.2058	229.35	. Q	.	.	.	V .
24.333	1214.7555	225.02	. Q	.	.	.	V .
24.417	1216.2676	219.55	. Q	.	.	.	V .
24.500	1217.7266	211.85	. Q	.	.	.	V .
24.583	1219.1216	202.56	. Q	.	.	.	V .
24.667	1220.4457	192.26	. Q	.	.	.	V .
24.750	1221.6990	181.97	. Q	.	.	.	V .
24.833	1222.8728	170.44	.Q	.	.	.	V .
24.917	1223.9712	159.48	.Q	.	.	.	V .
25.000	1224.9795	146.40	.Q	.	.	.	V .
25.083	1225.8988	133.48	.Q	.	.	.	V .
25.167	1226.7115	118.01	.Q	.	.	.	V .
25.250	1227.4283	104.08	.Q	.	.	.	V .
25.333	1228.0581	91.44	.Q	.	.	.	V .
25.417	1228.5923	77.56	Q	.	.	.	V .
25.500	1229.0488	66.28	Q	.	.	.	V .
25.583	1229.4353	56.12	Q	.	.	.	V .
25.667	1229.7667	48.13	Q	.	.	.	V .
25.750	1230.0477	40.81	Q	.	.	.	V .
25.833	1230.2825	34.09	Q	.	.	.	V .
25.917	1230.4794	28.58	Q	.	.	.	V .
26.000	1230.6470	24.34	Q	.	.	.	V .
26.083	1230.7897	20.73	Q	.	.	.	V .
26.167	1230.9095	17.40	Q	.	.	.	V .
26.250	1231.0083	14.35	Q	.	.	.	V .
26.333	1231.0907	11.97	Q	.	.	.	V .
26.417	1231.1591	9.93	Q	.	.	.	V .
26.500	1231.2162	8.29	Q	.	.	.	V .
26.583	1231.2645	7.03	Q	.	.	.	V .
26.667	1231.3042	5.77	Q	.	.	.	V .
26.750	1231.3361	4.63	Q	.	.	.	V .
26.833	1231.3649	4.19	Q	.	.	.	V .
26.917	1231.3915	3.87	Q	.	.	.	V .
27.000	1231.4159	3.55	Q	.	.	.	V .
27.083	1231.4382	3.24	Q	.	.	.	V .
27.167	1231.4584	2.93	Q	.	.	.	V .
27.250	1231.4764	2.62	Q	.	.	.	V .
27.333	1231.4923	2.31	Q	.	.	.	V .
27.417	1231.5061	2.01	Q	.	.	.	V .
27.500	1231.5178	1.71	Q	.	.	.	V .
27.583	1231.5275	1.41	Q	.	.	.	V .
27.667	1231.5352	1.11	Q	.	.	.	V .
27.750	1231.5408	0.81	Q	.	.	.	V .
27.833	1231.5443	0.52	Q	.	.	.	V .
27.917	1231.5459	0.23	Q	.	.	.	V .

-----  
TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:

(Note: 100% of Peak Flow Rate estimate assumed to have an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
0%	1675.0
10%	690.0
20%	340.0
30%	225.0
40%	165.0
50%	115.0
60%	90.0
70%	75.0
80%	55.0
90%	30.0

=====  
END OF FLOODSCx ROUTING ANALYSIS

\*\*\*\*\*

FLOOD ROUTING ANALYSIS  
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)  
(c) Copyright 1989-2013 Advanced Engineering Software (aes)  
Ver. 20.0 Release Date: 06/01/2013 License ID 1237

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*  
\* RMV PA-3 BODR 2022 - NODE 133U \*  
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*  
\* 50-YR EV JULY 2022 ROKAMOTO \*  
\*\*\*\*\*

FILE NAME: EV5033US.DAT  
TIME/DATE OF STUDY: 13:49 07/24/2022

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 133.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<

=====

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 54417.500 ACRES  
BASEFLOW = 0.000 CFS/SQUARE-MILE  
\*USER ENTERED "LAG" TIME = 2.381 HOURS  
VALLEY (DEVELOPED) S-GRAPH SELECTED  
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.290  
LOW LOSS FRACTION = 0.405  
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.45  
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.87  
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 1.20  
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 2.23  
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 3.31  
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 5.82

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:  
5-MINUTE FACTOR = 0.328  
30-MINUTE FACTOR = 0.381  
1-HOUR FACTOR = 0.422  
3-HOUR FACTOR = 0.771  
6-HOUR FACTOR = 0.897  
24-HOUR FACTOR = 0.940

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES  
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 3.500

UNIT HYDROGRAPH DETERMINATION

INTERVAL NUMBER	"S" GRAPH MEAN VALUES	UNIT HYDROGRAPH ORDINATES (CFS)
1	0.200	1316.197
2	0.600	2632.393
3	1.000	2632.395
4	1.400	2632.395
5	1.800	2632.395
6	2.304	3318.963
7	2.913	4005.811
8	3.522	4005.824
9	4.261	4863.798
10	5.360	7233.221
11	6.632	8373.742
12	8.169	10114.235
13	9.985	11950.893
14	11.750	11612.785
15	13.524	11674.958
16	15.883	15525.338
17	17.866	13053.289
18	19.762	12479.979
19	22.057	15103.675
20	24.552	16418.811
21	26.571	13283.339
22	28.816	14777.511
23	31.359	16735.109
24	34.354	19710.336
25	36.797	16075.990
26	39.459	17522.539
27	42.719	21452.871
28	45.901	20938.020
29	49.535	23915.770
30	52.362	18608.930
31	54.830	16239.424
32	57.411	16987.250
33	60.615	21086.992
34	63.840	21224.691
35	66.316	16294.303
36	68.782	16228.604
37	71.166	15686.486
38	73.344	14335.438
39	75.512	14271.621
40	77.221	11243.108
41	78.776	10237.303
42	80.355	10389.690
43	81.977	10672.473
44	83.471	9832.410
45	84.856	9115.312
46	86.136	8425.829
47	87.230	7195.485
48	88.228	6573.886

49	89.058	5458.372
50	89.876	5383.961
51	90.631	4966.264
52	91.367	4849.626
53	92.090	4755.031
54	92.761	4416.265
55	93.428	4386.892
56	94.049	4087.591
57	94.507	3017.014
58	94.952	2925.180
59	95.396	2925.231
60	95.839	2912.327
61	96.176	2220.082
62	96.451	1806.905
63	96.725	1805.047
64	96.999	1806.905
65	97.274	1806.905
66	97.549	1806.905
67	97.823	1805.097
68	98.021	1305.609
69	98.089	444.358
70	98.154	431.554
71	98.220	431.504
72	98.285	431.554
73	98.351	433.362
74	98.417	433.362
75	98.483	433.362
76	98.549	431.504
77	98.614	431.554
78	98.680	435.169
79	98.745	427.839
80	98.811	433.412
81	98.876	429.646
82	98.942	433.362
83	99.008	433.362
84	99.074	433.362
85	99.140	433.362
86	99.206	433.362
87	99.272	433.362
88	99.337	433.362
89	99.403	433.362
90	99.469	433.362
91	99.535	433.362
92	99.601	433.362
93	99.667	433.362
94	99.732	433.362
95	99.798	433.362
96	99.864	433.362
97	99.930	433.362
98	99.996	433.362
99	100.000	27.264

-----  
TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 9884.2510  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 14916.6855  
-----

=====  
2 4 - 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 FIVE-MINUTE UNIT INTERVALS (CFS)  
(Note: Time indicated is at END of Each Unit Intervals)

TIME (HRS)	VOLUME (AF)	Q (CFS)	0.	4550.0	9100.0	13650.0	18200.0
0.083	0.0451	6.55	Q	.	.	.	.
0.167	0.1806	19.67	Q	.	.	.	.
0.250	0.4066	32.82	Q	.	.	.	.
0.333	0.7235	46.01	Q	.	.	.	.
0.417	1.1315	59.25	Q	.	.	.	.
0.500	1.6545	75.93	Q	.	.	.	.
0.583	2.3163	96.09	Q	.	.	.	.
0.667	3.1172	116.30	Q	.	.	.	.
0.750	4.0873	140.85	Q	.	.	.	.
0.833	5.3080	177.26	Q	.	.	.	.
0.917	6.8194	219.44	Q	.	.	.	.
1.000	8.6818	270.42	Q	.	.	.	.
1.083	10.9592	330.69	Q	.	.	.	.
1.167	13.6414	389.45	Q	.	.	.	.
1.250	16.7316	448.70	Q	.	.	.	.
1.333	20.3631	527.30	VQ	.	.	.	.
1.417	24.4527	593.80	VQ	.	.	.	.
1.500	28.9823	657.69	VQ	.	.	.	.
1.583	34.0430	734.81	VQ	.	.	.	.
1.667	39.6816	818.73	VQ	.	.	.	.
1.750	45.7923	887.28	VQ	.	.	.	.
1.833	52.4281	963.51	V Q	.	.	.	.
1.917	59.6573	1049.69	V Q	.	.	.	.
2.000	67.5842	1150.97	V Q	.	.	.	.
2.083	76.0858	1234.43	V Q	.	.	.	.
2.167	85.2141	1325.43	V Q	.	.	.	.
2.250	95.1053	1436.20	V Q	.	.	.	.
2.333	105.7445	1544.81	V Q	.	.	.	.
2.417	117.2358	1668.54	V Q	.	.	.	.
2.500	129.4002	1766.28	V Q	.	.	.	.
2.583	142.1587	1852.53	V Q	.	.	.	.
2.667	155.5388	1942.80	V Q	.	.	.	.
2.750	169.6832	2053.76	V Q	.	.	.	.
2.833	184.5989	2165.76	V Q	.	.	.	.
2.917	200.1195	2253.59	V Q	.	.	.	.
3.000	216.2449	2341.42	V Q	.	.	.	.
3.083	232.9585	2426.81	V Q	.	.	.	.
3.167	250.2162	2505.81	V Q	.	.	.	.
3.250	268.0174	2584.74	V Q	.	.	.	.
3.333	286.2606	2648.91	V Q	.	.	.	.
3.417	304.9127	2708.29	V Q	.	.	.	.
3.500	323.9807	2768.67	V Q	.	.	.	.
3.583	343.4757	2830.67	V Q	.	.	.	.
3.667	363.3707	2888.75	V Q	.	.	.	.
3.750	383.6425	2943.47	.V Q	.	.	.	.
3.833	404.2692	2994.99	.V Q	.	.	.	.
3.917	425.2098	3040.59	.V Q	.	.	.	.



4.000	446.4447	3083.31	.V	Q	.	.	.	.
4.083	467.9367	3120.64	.V	Q	.	.	.	.
4.167	489.6847	3157.81	.V	Q	.	.	.	.
4.250	511.6754	3193.04	.V	Q	.	.	.	.
4.333	533.9061	3227.90	.V	Q	.	.	.	.
4.417	556.3745	3262.42	.V	Q	.	.	.	.
4.500	579.0706	3295.47	.V	Q	.	.	.	.
4.583	601.9941	3328.50	.V	Q	.	.	.	.
4.667	625.1364	3360.25	.V	Q	.	.	.	.
4.750	648.4616	3386.81	.V	Q	.	.	.	.
4.833	671.9679	3413.11	.V	Q	.	.	.	.
4.917	695.6561	3439.53	.V	Q	.	.	.	.
5.000	719.5271	3466.08	.V	Q	.	.	.	.
5.083	743.5581	3489.30	.V	Q	.	.	.	.
5.167	767.7363	3510.67	.V	Q	.	.	.	.
5.250	792.0623	3532.14	.V	Q	.	.	.	.
5.333	816.5375	3553.80	.V	Q	.	.	.	.
5.417	841.1627	3575.58	.V	Q	.	.	.	.
5.500	865.9393	3597.56	.V	Q	.	.	.	.
5.583	890.8680	3619.65	.V	Q	.	.	.	.
5.667	915.9332	3639.46	.V	Q	.	.	.	.
5.750	941.1060	3655.10	.V	Q	.	.	.	.
5.833	966.3874	3670.86	.V	Q	.	.	.	.
5.917	991.7781	3686.72	.V	Q	.	.	.	.
6.000	1017.2794	3702.79	.V	Q	.	.	.	.
6.083	1042.8921	3718.97	.V	Q	.	.	.	.
6.167	1068.6177	3735.35	.V	Q	.	.	.	.
6.250	1094.4569	3751.85	.V	Q	.	.	.	.
6.333	1120.4111	3768.55	.V	Q	.	.	.	.
6.417	1146.4811	3785.36	.V	Q	.	.	.	.
6.500	1172.6686	3802.42	.V	Q	.	.	.	.
6.583	1198.9740	3819.55	.V	Q	.	.	.	.
6.667	1225.3992	3836.94	.V	Q	.	.	.	.
6.750	1251.9448	3854.44	.V	Q	.	.	.	.
6.833	1278.6128	3872.19	.V	Q	.	.	.	.
6.917	1305.4039	3890.07	.V	Q	.	.	.	.
7.000	1332.3198	3908.19	.V	Q	.	.	.	.
7.083	1359.3615	3926.44	.V	Q	.	.	.	.
7.167	1386.5305	3944.95	.V	Q	.	.	.	.
7.250	1413.8280	3963.60	.V	Q	.	.	.	.
7.333	1441.2557	3982.51	.V	Q	.	.	.	.
7.417	1468.8147	4001.57	.V	Q	.	.	.	.
7.500	1496.5068	4020.90	.V	Q	.	.	.	.
7.583	1524.3331	4040.38	.V	Q	.	.	.	.
7.667	1552.2955	4060.14	.V	Q	.	.	.	.
7.750	1580.3951	4080.07	.V	Q	.	.	.	.
7.833	1608.6340	4100.28	.V	Q	.	.	.	.
7.917	1637.0133	4120.67	.V	Q	.	.	.	.
8.000	1665.5350	4141.35	.V	Q	.	.	.	.
8.083	1694.2004	4162.22	.V	Q	.	.	.	.
8.167	1723.0117	4183.40	.V	Q	.	.	.	.
8.250	1751.9562	4202.73	.V	Q	.	.	.	.
8.333	1781.0352	4222.26	.V	Q	.	.	.	.
8.417	1810.2499	4241.97	.V	Q	.	.	.	.
8.500	1839.6027	4262.02	.V	Q	.	.	.	.
8.583	1869.0948	4282.27	.V	Q	.	.	.	.
8.667	1898.7289	4302.86	.V	Q	.	.	.	.
8.750	1928.5061	4323.66	.V	Q	.	.	.	.

8.833	1958.4292	4344.83	.	V	Q.	.	.	.
8.917	1988.4995	4366.21	.	V	Q.	.	.	.
9.000	2018.7197	4387.97	.	V	Q.	.	.	.
9.083	2049.0913	4409.96	.	V	Q.	.	.	.
9.167	2079.6172	4432.35	.	V	Q.	.	.	.
9.250	2110.2988	4454.98	.	V	Q.	.	.	.
9.333	2141.1392	4478.02	.	V	Q.	.	.	.
9.417	2172.1399	4501.32	.	V	Q.	.	.	.
9.500	2203.3042	4525.05	.	V	Q.	.	.	.
9.583	2234.6338	4549.05	.	V	Q.	.	.	.
9.667	2266.1318	4573.50	.	V	Q	.	.	.
9.750	2297.8000	4598.24	.	V	Q	.	.	.
9.833	2329.6421	4623.46	.	V	Q	.	.	.
9.917	2361.6599	4648.98	.	V	Q	.	.	.
10.000	2393.8569	4675.00	.	V	Q	.	.	.
10.083	2426.2354	4701.33	.	V	Q	.	.	.
10.167	2458.7986	4728.20	.	V	Q	.	.	.
10.250	2491.5493	4755.40	.	V	Q	.	.	.
10.333	2524.4912	4783.16	.	V	Q	.	.	.
10.417	2557.6267	4811.27	.	V	Q	.	.	.
10.500	2590.9597	4839.97	.	V	Q	.	.	.
10.583	2624.4932	4869.05	.	V	Q	.	.	.
10.667	2658.2312	4898.75	.	V	Q	.	.	.
10.750	2692.1765	4928.85	.	V	Q	.	.	.
10.833	2726.3335	4959.61	.	V	Q	.	.	.
10.917	2760.7053	4990.79	.	V	Q	.	.	.
11.000	2795.2966	5022.67	.	V	.Q	.	.	.
11.083	2830.1108	5055.01	.	V	.Q	.	.	.
11.167	2865.1526	5088.08	.	V	.Q	.	.	.
11.250	2900.4255	5121.64	.	V	.Q	.	.	.
11.333	2935.9351	5155.98	.	V	.Q	.	.	.
11.417	2971.6846	5190.84	.	V	.Q	.	.	.
11.500	3007.6799	5226.53	.	V	.Q	.	.	.
11.583	3043.9250	5262.79	.	V	.Q	.	.	.
11.667	3080.4260	5299.93	.	V	.Q	.	.	.
11.750	3117.1868	5337.68	.	V	.Q	.	.	.
11.833	3154.2141	5376.36	.	V	.Q	.	.	.
11.917	3191.5122	5415.70	.	V	.Q	.	.	.
12.000	3229.0881	5456.04	.	V	.Q	.	.	.
12.083	3267.0244	5508.33	.	V	.Q	.	.	.
12.167	3305.4053	5572.90	.	V	.Q	.	.	.
12.250	3344.2354	5638.13	.	V	.Q	.	.	.
12.333	3383.5217	5704.38	.	V	.Q	.	.	.
12.417	3423.2693	5771.35	.	V	.Q	.	.	.
12.500	3463.5261	5845.29	.	V	.Q	.	.	.
12.583	3504.3376	5925.84	.	V	.Q	.	.	.
12.667	3545.7119	6007.53	.	V	.Q	.	.	.
12.750	3587.7043	6097.31	.	V	.Q	.	.	.
12.833	3630.4629	6208.54	.	V	.Q	.	.	.
12.917	3674.0596	6330.22	.	V	.Q	.	.	.
13.000	3718.6042	6467.90	.	V	.Q	.	.	.
13.083	3764.2100	6621.93	.	V	.Q	.	.	.
13.167	3810.8638	6774.14	.	V	.Q	.	.	.
13.250	3858.5740	6927.52	.	V	.Q	.	.	.
13.333	3907.5750	7114.95	.	V	.Q	.	.	.
13.417	3957.7256	7281.87	.	V	.Q	.	.	.
13.500	4008.9995	7444.99	.	V	.Q	.	.	.
13.583	4061.5569	7631.33	.	V	.Q	.	.	.

13.667	4115.4829	7830.08	.	.V	Q	.	.	.
13.750	4170.5981	8002.75	.	.V	Q	.	.	.
13.833	4226.9995	8189.48	.	.V	Q	.	.	.
13.917	4284.8086	8393.85	.	.V	Q	.	.	.
14.000	4344.2085	8624.90	.	.V	Q	.	.	.
14.083	4405.0752	8837.83	.	.V	Q	.	.	.
14.167	4467.5835	9076.21	.	.V	Q	.	.	.
14.250	4531.9658	9348.29	.	.V	Q	.	.	.
14.333	4598.1934	9616.26	.	.V	.Q	.	.	.
14.417	4666.4414	9909.64	.	.V	.Q	.	.	.
14.500	4736.4434	10164.28	.	.V	.Q	.	.	.
14.583	4808.1021	10404.81	.	.V	.Q	.	.	.
14.667	4881.4624	10651.93	.	.V	Q	.	.	.
14.750	4956.8174	10941.56	.	.V	.Q	.	.	.
14.833	5034.3242	11253.99	.	.V	.Q	.	.	.
14.917	5113.7539	11533.18	.	.V	.Q	.	.	.
15.000	5195.2026	11826.36	.	.V	.Q	.	.	.
15.083	5278.7378	12129.33	.	.V	.Q	.	.	.
15.167	5364.2397	12414.86	.	.V	.Q	.	.	.
15.250	5451.6846	12697.00	.	.V	.Q	.	.	.
15.333	5541.1182	12985.75	.	.V	.Q	.	.	.
15.417	5632.1836	13222.69	.	.V	.Q	.	.	.
15.500	5724.7222	13436.63	.	.V	.Q	.	.	.
15.583	5818.9165	13677.02	.	.V	.Q	.	.	.
15.667	5914.7935	13921.36	.	.V	.Q	.	.	.
15.750	6012.0605	14123.17	.	.V	.Q	.	.	.
15.833	6110.6724	14318.41	.	.V	.Q	.	.	.
15.917	6210.6787	14520.89	.	.V	.Q	.	.	.
16.000	6312.3389	14761.04	.	.V	.Q	.	.	.
16.083	6416.1738	15076.83	.	.V	.Q	.	.	.
16.167	6521.9121	15353.17	.	.V	.Q	.	.	.
16.250	6628.7217	15508.75	.	.V	.Q	.	.	.
16.333	6736.4189	15637.64	.	.V	.Q	.	.	.
16.417	6845.1650	15789.96	.	.V	.Q	.	.	.
16.500	6955.1587	15971.08	.	.V	.Q	.	.	.
16.583	7066.2407	16129.13	.	.V	.Q	.	.	.
16.667	7177.7466	16190.63	.	.V	.Q	.	.	.
16.750	7290.7861	16413.32	.	.V	.Q	.	.	.
16.833	7406.5186	16804.36	.	.V	.Q	.	.	.
16.917	7523.6299	17004.57	.	.V	.Q	.	.	.
17.000	7642.2544	17224.29	.	.V	.Q	.	.	.
17.083	7762.5410	17465.65	.	.V	.Q	.	.	.
17.167	7882.9517	17483.59	.	.V	.Q	.	.	.
17.250	8003.6709	17528.44	.	.V	.Q	.	.	.
17.333	8126.6079	17850.43	.	.V	.Q	.	.	.
17.417	8248.0303	17630.55	.	.V	.Q	.	.	.
17.500	8369.3613	17617.21	.	.V	.Q	.	.	.
17.583	8492.1660	17831.30	.	.V	.Q	.	.	.
17.667	8615.5742	17918.80	.	.V	.Q	.	.	.
17.750	8736.4297	17548.20	.	.V	.Q	.	.	.
17.833	8858.3311	17700.02	.	.V	.Q	.	.	.
17.917	8981.6064	17899.64	.	.V	.Q	.	.	.
18.000	9106.5742	18145.33	.	.V	.Q	.	.	.
18.083	9228.0410	17636.97	.	.V	.Q	.	.	.
18.167	9349.9170	17696.36	.	.V	.Q	.	.	.
18.250	9474.2910	18059.06	.	.V	.Q	.	.	.
18.333	9597.9395	17953.72	.	.V	.Q	.	.	.
18.417	9722.4912	18084.90	.	.V	.Q	.	.	.

18.500	9842.4658	17420.34	.	.	.	V	.	Q
18.583	9960.6270	17156.94	.	.	.	V	.	Q
18.667	10079.3945	17245.09	.	.	.	V	.	Q
18.750	10201.1064	17672.58	.	.	.	V	.	Q
18.833	10322.0117	17555.47	.	.	.	V	.	Q
18.917	10438.3779	16896.37	.	.	.	V	.	Q
19.000	10553.4219	16704.34	.	.	.	V	.	Q
19.083	10667.1758	16517.07	.	.	.	V	.	Q
19.167	10779.0654	16246.43	.	.	.	V	.	Q
19.250	10889.2568	15999.83	.	.	.	V	.	Q
19.333	10995.6426	15447.17	.	.	.	V	.	Q
19.417	11099.7637	15118.36	.	.	.	V	.	Q
19.500	11202.6357	14937.05	.	.	.	V	.	Q
19.583	11304.3066	14762.55	.	.	.	V	.	Q
19.667	11403.5713	14413.18	.	.	.	V	.	Q
19.750	11500.2520	14038.04	.	.	.	V	.	Q
19.833	11594.1973	13640.92	.	.	.	V	.	Q
19.917	11685.2373	13219.06	.	.	.	V	.	Q
20.000	11773.5723	12826.24	.	.	.	V	.	Q
20.083	11859.1865	12431.23	.	.	.	V	.	Q
20.167	11942.7637	12135.38	.	.	.	V	.	Q
20.250	12023.7100	11753.42	.	.	.	V	.	Q
20.333	12102.4033	11426.32	.	.	.	V	.	Q
20.417	12178.7197	11081.08	.	.	.	V	.	Q
20.500	12252.8066	10757.40	.	.	.	V	.	Q
20.583	12324.8936	10467.09	.	.	.	V	.	Q
20.667	12394.7305	10140.30	.	.	.	V	.	Q
20.750	12461.6533	9717.25	.	.	.	V	.	Q
20.833	12526.3809	9398.50	.	.	.	V	.	Q
20.917	12589.3115	9137.59	.	.	.	V	.	Q
21.000	12650.4658	8879.58	.	.	.	V	.	Q
21.083	12709.4863	8569.78	.	.	.	V	.	Q
21.167	12766.6816	8304.80	.	.	.	V	.	Q
21.250	12822.3721	8086.21	.	.	.	V	.	Q
21.333	12876.7676	7898.25	.	.	.	V	.	Q
21.417	12929.9062	7715.73	.	.	.	V	.	Q
21.500	12981.7393	7526.10	.	.	.	V	.	Q
21.583	13032.1846	7324.64	.	.	.	V	.	Q
21.667	13080.9482	7080.51	.	.	.	V	.	Q
21.750	13127.9580	6825.79	.	.	.	V	.	Q
21.833	13173.8818	6668.21	.	.	.	V	.	Q
21.917	13218.8223	6525.29	.	.	.	V	.	Q
22.000	13262.8018	6385.87	.	.	.	V	.	Q
22.083	13305.8740	6254.07	.	.	.	V	.	Q
22.167	13348.0732	6127.26	.	.	.	V	.	Q
22.250	13389.4053	6001.41	.	.	.	V	.	Q
22.333	13429.8828	5877.33	.	.	.	V	.	Q
22.417	13469.5215	5755.52	.	.	.	V	.	Q
22.500	13508.3506	5638.05	.	.	.	V	.	Q
22.583	13546.3740	5520.98	.	.	.	V	.	Q
22.667	13583.6572	5413.49	.	.	.	V	.	Q
22.750	13620.3223	5323.77	.	.	.	V	.	Q
22.833	13656.3945	5237.70	.	.	.	V	.	Q
22.917	13691.8838	5153.03	.	.	.	V	.	Q
23.000	13726.8027	5070.26	.	.	.	V	.	Q
23.083	13761.2041	4995.04	.	.	.	V	.	Q
23.167	13795.1230	4924.99	.	.	.	V	.	Q
23.250	13828.5703	4856.56	.	.	.	V	.	Q

23.333	13861.5566	4789.61	.	Q	.	.	V	.
23.417	13894.0918	4724.13	.	Q	.	.	V	.
23.500	13926.1855	4659.96	.	Q	.	.	V	.
23.583	13957.8809	4602.15	.	Q	.	.	V	.
23.667	13989.2158	4549.79	.	Q	.	.	V	.
23.750	14020.2441	4505.36	.	Q	.	.	V	.
23.833	14050.9727	4461.72	.	Q	.	.	V	.
23.917	14081.4160	4420.44	.	Q	.	.	V	.
24.000	14111.5781	4379.51	.	Q	.	.	V	.
24.083	14141.4004	4330.22	.	Q	.	.	V	.
24.167	14170.8203	4271.82	.	Q	.	.	V	.
24.250	14199.5850	4176.60	.	Q	.	.	V	.
24.333	14227.9756	4122.30	.	Q	.	.	V	.
24.417	14256.0176	4071.73	.	Q	.	.	V	.
24.500	14283.7012	4019.63	.	Q	.	.	V	.
24.583	14310.9775	3960.54	.	Q	.	.	V	.
24.667	14337.8477	3901.61	.	Q	.	.	V	.
24.750	14364.2871	3838.96	.	Q	.	.	V	.
24.833	14390.2168	3765.06	.	Q	.	.	V	.
24.917	14415.6035	3686.10	.	Q	.	.	V	.
25.000	14440.3906	3599.13	.	Q	.	.	V	.
25.083	14464.5205	3503.72	.	Q	.	.	V	.
25.167	14488.0098	3410.70	.	Q	.	.	V	.
25.250	14510.8877	3321.89	.	Q	.	.	V	.
25.333	14533.0303	3215.16	.	Q	.	.	V	.
25.417	14554.5303	3121.76	.	Q	.	.	V	.
25.500	14575.4131	3032.15	.	Q	.	.	V	.
25.583	14595.5947	2930.39	.	Q	.	.	V	.
25.667	14615.0371	2823.04	.	Q	.	.	V	.
25.750	14633.8545	2732.22	.	Q	.	.	V	.
25.833	14652.0000	2634.80	.	Q	.	.	V	.
25.917	14669.4141	2528.50	.	Q	.	.	V	.
26.000	14686.0000	2408.30	.	Q	.	.	V	.
26.083	14701.8887	2307.11	.	Q	.	.	V	.
26.167	14717.0371	2199.54	.	Q	.	.	V	.
26.250	14731.3398	2076.77	.	Q	.	.	V	.
26.333	14744.8232	1957.75	.	Q	.	.	V	.
26.417	14757.3916	1824.86	.	Q	.	.	V	.
26.500	14769.2324	1719.32	.	Q	.	.	V	.
26.583	14780.4336	1626.37	.	Q	.	.	V	.
26.667	14790.9736	1530.42	.	Q	.	.	V	.
26.750	14800.7178	1414.84	.	Q	.	.	V	.
26.833	14809.6670	1299.41	.	Q	.	.	V	.
26.917	14817.9951	1209.29	.	Q	.	.	V	.
27.000	14825.7100	1120.15	.	Q	.	.	V	.
27.083	14832.8340	1034.34	.	Q	.	.	V	.
27.167	14839.4170	955.86	.	Q	.	.	V	.
27.250	14845.4658	878.25	.	Q	.	.	V	.
27.333	14851.0869	816.24	.	Q	.	.	V	.
27.417	14856.3184	759.67	.	Q	.	.	V	.
27.500	14861.1582	702.75	.	Q	.	.	V	.
27.583	14865.5996	644.83	.	Q	.	.	V	.
27.667	14869.6729	591.49	.	Q	.	.	V	.
27.750	14873.4062	542.09	.	Q	.	.	V	.
27.833	14876.8252	496.45	.	Q	.	.	V	.
27.917	14879.9746	457.25	.	Q	.	.	V	.
28.000	14882.8770	421.41	.	Q	.	.	V	.
28.083	14885.5723	391.36	.	Q	.	.	V	.

28.167	14888.0645	361.90	Q	.	.	.	V	.
28.250	14890.3701	334.72	Q	.	.	.	V	.
28.333	14892.4932	308.31	Q	.	.	.	V	.
28.417	14894.4395	282.56	Q	.	.	.	V	.
28.500	14896.2207	258.66	Q	.	.	.	V	.
28.583	14897.8398	235.08	Q	.	.	.	V	.
28.667	14899.3076	213.15	Q	.	.	.	V	.
28.750	14900.6621	196.68	Q	.	.	.	V	.
28.833	14901.9072	180.79	Q	.	.	.	V	.
28.917	14903.0439	165.01	Q	.	.	.	V	.
29.000	14904.0732	149.40	Q	.	.	.	V	.
29.083	14905.0195	137.33	Q	.	.	.	V	.
29.167	14905.8965	127.40	Q	.	.	.	V	.
29.250	14906.7061	117.55	Q	.	.	.	V	.
29.333	14907.4482	107.76	Q	.	.	.	V	.
29.417	14908.1230	98.04	Q	.	.	.	V	.
29.500	14908.7314	88.38	Q	.	.	.	V	.
29.583	14909.2744	78.80	Q	.	.	.	V	.
29.667	14909.7686	71.77	Q	.	.	.	V	.
29.750	14910.2441	69.06	Q	.	.	.	V	.
29.833	14910.7012	66.43	Q	.	.	.	V	.
29.917	14911.1406	63.83	Q	.	.	.	V	.
30.000	14911.5625	61.25	Q	.	.	.	V	.
30.083	14911.9668	58.68	Q	.	.	.	V	.
30.167	14912.3535	56.13	Q	.	.	.	V	.
30.250	14912.7227	53.60	Q	.	.	.	V	.
30.333	14913.0742	51.10	Q	.	.	.	V	.
30.417	14913.4092	48.62	Q	.	.	.	V	.
30.500	14913.7266	46.14	Q	.	.	.	V	.
30.583	14914.0273	43.71	Q	.	.	.	V	.
30.667	14914.3115	41.27	Q	.	.	.	V	.
30.750	14914.5791	38.87	Q	.	.	.	V	.
30.833	14914.8301	36.47	Q	.	.	.	V	.
30.917	14915.0645	34.09	Q	.	.	.	V	.
31.000	14915.2832	31.72	Q	.	.	.	V	.
31.083	14915.4854	29.37	Q	.	.	.	V	.
31.167	14915.6719	27.03	Q	.	.	.	V	.
31.250	14915.8418	24.71	Q	.	.	.	V	.
31.333	14915.9961	22.40	Q	.	.	.	V	.
31.417	14916.1348	20.11	Q	.	.	.	V	.
31.500	14916.2578	17.84	Q	.	.	.	V	.
31.583	14916.3652	15.58	Q	.	.	.	V	.
31.667	14916.4570	13.33	Q	.	.	.	V	.
31.750	14916.5332	11.10	Q	.	.	.	V	.
31.833	14916.5947	8.88	Q	.	.	.	V	.
31.917	14916.6406	6.67	Q	.	.	.	V	.
32.000	14916.6719	4.48	Q	.	.	.	V	.
32.083	14916.6875	2.30	Q	.	.	.	V	.
32.167	14916.6885	0.14	Q	.	.	.	V	.

-----  
TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
(Note: 100% of Peak Flow Rate estimate assumed to have  
an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
=====	=====
0%	1930.0

10%	1435.0
20%	1160.0
30%	640.0
40%	495.0
50%	410.0
60%	345.0
70%	285.0
80%	225.0
90%	145.0

=====  
END OF FLOODSCx ROUTING ANALYSIS

\*\*\*\*\*

FLOOD ROUTING ANALYSIS
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)
(c) Copyright 1989-2013 Advanced Engineering Software (aes)
Ver. 20.0 Release Date: 06/01/2013 License ID 1237

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*
\* RMV PA-3 ROMP AMENDMENT 2022 - NODE 134C \*
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*
\* 50-YR EV OCT 2022 ROKAMOTO \*

FILE NAME: EV5034CS.DAT
TIME/DATE OF STUDY: 10:14 10/25/2022

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 134.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<

=====

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 66607.102 ACRES
BASEFLOW = 0.000 CFS/SQUARE-MILE
\*USER ENTERED "LAG" TIME = 2.480 HOURS
VALLEY (DEVELOPED) S-GRAPH SELECTED
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.284
LOW LOSS FRACTION = 0.416
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.44
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.85
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 1.17
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 2.15
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 3.16
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 5.51

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:
5-MINUTE FACTOR = 0.293
30-MINUTE FACTOR = 0.352
1-HOUR FACTOR = 0.397
3-HOUR FACTOR = 0.740
6-HOUR FACTOR = 0.887
24-HOUR FACTOR = 0.933

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 3.360

UNIT HYDROGRAPH DETERMINATION

Table with 3 columns: INTERVAL NUMBER, "S" GRAPH MEAN VALUES, UNIT HYDROGRAPH ORDINATES (CFS). Rows 1-48.

49	87.299	8386.919
50	88.250	7668.179
51	89.045	6399.275
52	89.832	6339.662
53	90.560	5866.688
54	91.268	5699.341
55	91.968	5639.666
56	92.618	5233.435
57	93.258	5157.413
58	93.885	5054.350
59	94.358	3811.258
60	94.785	3436.677
61	95.212	3436.739
62	95.639	3439.013
63	96.030	3155.757
64	96.304	2202.927
65	96.567	2123.402
66	96.831	2121.005
67	97.095	2125.676
68	97.358	2121.005
69	97.622	2123.341
70	97.885	2121.005
71	98.036	1217.341
72	98.098	503.333
73	98.162	508.065
74	98.225	508.004
75	98.288	508.004
76	98.350	505.668
77	98.413	508.004
78	98.477	512.675
79	98.540	505.668
80	98.603	508.004
81	98.666	508.065
82	98.729	505.668
83	98.792	510.339
84	98.855	505.668
85	98.918	510.339
86	98.981	505.668
87	99.044	505.668
88	99.107	505.668
89	99.169	505.668
90	99.232	505.668
91	99.295	505.668
92	99.358	505.668
93	99.420	505.668
94	99.483	505.668
95	99.546	505.668
96	99.609	505.668
97	99.672	505.668
98	99.734	505.668
99	99.797	505.668
100	99.860	505.668
101	99.923	505.668
102	99.985	505.668
103	100.000	117.137

TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 11707.5195  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 16824.5859

2 4 - 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 FIVE-MINUTE UNIT INTERVALS (CFS)

(Note: Time indicated is at END of Each Unit Intervals)

TIME (HRS)	VOLUME (AF)	Q (CFS)	0.	5025.0	10050.0	15075.0	20100.0
0.083	0.0487	7.07	Q	.	.	.	.
0.167	0.1949	21.23	Q	.	.	.	.
0.250	0.4389	35.43	Q	.	.	.	.
0.333	0.7810	49.67	Q	.	.	.	.
0.417	1.2214	63.95	Q	.	.	.	.
0.500	1.7764	80.59	Q	.	.	.	.
0.583	2.4802	102.19	Q	.	.	.	.
0.667	3.3342	124.00	Q	.	.	.	.
0.750	4.3474	147.12	Q	.	.	.	.
0.833	5.6115	183.55	Q	.	.	.	.
0.917	7.1632	225.31	Q	.	.	.	.
1.000	9.0684	276.63	Q	.	.	.	.
1.083	11.3945	337.75	Q	.	.	.	.
1.167	14.1684	402.76	Q	.	.	.	.
1.250	17.3764	465.81	Q	.	.	.	.
1.333	21.0661	535.73	VQ	.	.	.	.
1.417	25.3447	621.26	VQ	.	.	.	.
1.500	30.0929	689.44	VQ	.	.	.	.
1.583	35.3320	760.71	VQ	.	.	.	.
1.667	41.1771	848.71	VQ	.	.	.	.
1.750	47.6227	935.89	VQ	.	.	.	.
1.833	54.5746	1009.42	V Q	.	.	.	.
1.917	62.1126	1094.52	V Q	.	.	.	.
2.000	70.2909	1187.48	V Q	.	.	.	.
2.083	79.2315	1298.17	V Q	.	.	.	.
2.167	88.7924	1388.25	V Q	.	.	.	.
2.250	99.0163	1484.51	V Q	.	.	.	.
2.333	110.0693	1604.90	V Q	.	.	.	.
2.417	121.9281	1721.90	V Q	.	.	.	.
2.500	134.6992	1854.36	V Q	.	.	.	.
2.583	148.2461	1967.02	V Q	.	.	.	.
2.667	162.4453	2061.72	V Q	.	.	.	.
2.750	177.2896	2155.38	V Q	.	.	.	.
2.833	192.9019	2266.91	V Q	.	.	.	.
2.917	209.4064	2396.45	V Q	.	.	.	.
3.000	226.6147	2498.66	V Q	.	.	.	.
3.083	244.4516	2589.91	V Q	.	.	.	.
3.167	262.9751	2689.62	V Q	.	.	.	.
3.250	282.0814	2774.23	V Q	.	.	.	.
3.333	301.7914	2861.89	V Q	.	.	.	.
3.417	322.0574	2942.63	V Q	.	.	.	.
3.500	342.7747	3008.15	V Q	.	.	.	.
3.583	363.9374	3072.83	V Q	.	.	.	.
3.667	385.5582	3139.35	V Q	.	.	.	.
3.750	407.6389	3206.12	V Q	.	.	.	.
3.833	430.1501	3268.62	.V Q	.	.	.	.
3.917	453.0676	3327.62	.V Q	.	.	.	.

4.000	476.3670	3383.08	.V Q	.	.	.	.
4.083	500.0075	3432.60	.V Q	.	.	.	.
4.167	523.9678	3479.03	.V Q	.	.	.	.
4.250	548.2095	3519.89	.V Q	.	.	.	.
4.333	572.7319	3560.66	.V Q	.	.	.	.
4.417	597.5216	3599.47	.V Q	.	.	.	.
4.500	622.5746	3637.70	.V Q	.	.	.	.
4.583	647.8905	3675.86	.V Q	.	.	.	.
4.667	673.4576	3712.35	.V Q	.	.	.	.
4.750	699.2751	3748.69	.V Q	.	.	.	.
4.833	725.3408	3784.75	.V Q	.	.	.	.
4.917	751.6171	3815.32	.V Q	.	.	.	.
5.000	778.0934	3844.35	.V Q	.	.	.	.
5.083	804.7709	3873.58	.V Q	.	.	.	.
5.167	831.6510	3902.98	.V Q	.	.	.	.
5.250	858.7260	3931.29	.V Q	.	.	.	.
5.333	885.9670	3955.40	.V Q	.	.	.	.
5.417	913.3729	3979.34	.V Q	.	.	.	.
5.500	940.9447	4003.42	.V Q	.	.	.	.
5.583	968.6838	4027.72	.V Q	.	.	.	.
5.667	996.5913	4052.16	.V Q	.	.	.	.
5.750	1024.6685	4076.80	.V Q	.	.	.	.
5.833	1052.9164	4101.61	.V Q	.	.	.	.
5.917	1081.3081	4122.48	.V Q	.	.	.	.
6.000	1109.8223	4140.26	.V Q	.	.	.	.
6.083	1138.4603	4158.24	.V Q	.	.	.	.
6.167	1167.2233	4176.38	.V Q	.	.	.	.
6.250	1196.1124	4194.71	.V Q	.	.	.	.
6.333	1225.1289	4213.20	.V Q	.	.	.	.
6.417	1254.2742	4231.90	.V Q	.	.	.	.
6.500	1283.5496	4250.78	.V Q	.	.	.	.
6.583	1312.9562	4269.85	.V Q	.	.	.	.
6.667	1342.4954	4289.09	.V Q	.	.	.	.
6.750	1372.1686	4308.56	.V Q	.	.	.	.
6.833	1401.9771	4328.19	.V Q	.	.	.	.
6.917	1431.9225	4348.07	.V Q	.	.	.	.
7.000	1462.0059	4368.11	.V Q	.	.	.	.
7.083	1492.2291	4388.41	.V Q	.	.	.	.
7.167	1522.5933	4408.88	.V Q	.	.	.	.
7.250	1553.1001	4429.60	.V Q	.	.	.	.
7.333	1583.7510	4450.51	.V Q	.	.	.	.
7.417	1614.5476	4471.68	.V Q	.	.	.	.
7.500	1645.4916	4493.06	.V Q	.	.	.	.
7.583	1676.5845	4514.69	.V Q	.	.	.	.
7.667	1707.8279	4536.54	.V Q	.	.	.	.
7.750	1739.2236	4558.67	.V Q	.	.	.	.
7.833	1770.7734	4581.02	.V Q	.	.	.	.
7.917	1802.4790	4603.65	.V Q	.	.	.	.
8.000	1834.3422	4626.52	.V Q	.	.	.	.
8.083	1866.3649	4649.69	.V Q	.	.	.	.
8.167	1898.5488	4673.11	.V Q	.	.	.	.
8.250	1930.8961	4696.82	.V Q	.	.	.	.
8.333	1963.4084	4720.80	.V Q	.	.	.	.
8.417	1996.0881	4745.09	.V Q	.	.	.	.
8.500	2028.9370	4769.66	.V Q	.	.	.	.
8.583	2061.9451	4792.78	.V Q	.	.	.	.
8.667	2095.1106	4815.64	.V Q	.	.	.	.
8.750	2128.4360	4838.84	.V Q	.	.	.	.

8.833	2161.9231	4862.34	.	V	Q.	.	.	.
8.917	2195.5745	4886.19	.	V	Q.	.	.	.
9.000	2229.3921	4910.34	.	V	Q.	.	.	.
9.083	2263.3787	4934.85	.	V	Q.	.	.	.
9.167	2297.5364	4959.69	.	V	Q.	.	.	.
9.250	2331.8677	4984.92	.	V	Q.	.	.	.
9.333	2366.3750	5010.48	.	V	Q.	.	.	.
9.417	2401.0613	5036.45	.	V	Q.	.	.	.
9.500	2435.9287	5062.77	.	V	Q	.	.	.
9.583	2470.9805	5089.51	.	V	Q	.	.	.
9.667	2506.2190	5116.62	.	V	Q	.	.	.
9.750	2541.6472	5144.18	.	V	Q	.	.	.
9.833	2577.2681	5172.14	.	V	Q	.	.	.
9.917	2613.0845	5200.56	.	V	Q	.	.	.
10.000	2649.0996	5229.39	.	V	Q	.	.	.
10.083	2685.3167	5258.72	.	V	Q	.	.	.
10.167	2721.7388	5288.48	.	V	Q	.	.	.
10.250	2758.3694	5318.77	.	V	Q	.	.	.
10.333	2795.2117	5349.51	.	V	Q	.	.	.
10.417	2832.2695	5380.81	.	V	Q	.	.	.
10.500	2869.5461	5412.58	.	V	Q	.	.	.
10.583	2907.0457	5444.94	.	V	Q	.	.	.
10.667	2944.7717	5477.81	.	V	Q	.	.	.
10.750	2982.7283	5511.30	.	V	Q	.	.	.
10.833	3020.9192	5545.33	.	V	.Q	.	.	.
10.917	3059.3491	5580.01	.	V	.Q	.	.	.
11.000	3098.0217	5615.28	.	V	.Q	.	.	.
11.083	3136.9421	5651.23	.	V	.Q	.	.	.
11.167	3176.1143	5687.80	.	V	.Q	.	.	.
11.250	3215.5432	5725.10	.	V	.Q	.	.	.
11.333	3255.2336	5763.05	.	V	.Q	.	.	.
11.417	3295.1909	5801.79	.	V	.Q	.	.	.
11.500	3335.4197	5841.23	.	V	.Q	.	.	.
11.583	3375.9258	5881.50	.	V	.Q	.	.	.
11.667	3416.7146	5922.52	.	V	.Q	.	.	.
11.750	3457.7920	5964.43	.	V	.Q	.	.	.
11.833	3499.1636	6007.15	.	V	.Q	.	.	.
11.917	3540.8357	6050.81	.	V	.Q	.	.	.
12.000	3582.8145	6095.33	.	V	.Q	.	.	.
12.083	3625.1980	6154.09	.	V	.Q	.	.	.
12.167	3668.0833	6226.93	.	V	.Q	.	.	.
12.250	3711.4768	6300.73	.	V	.Q	.	.	.
12.333	3755.3843	6375.37	.	V	.Q	.	.	.
12.417	3799.8130	6451.03	.	V	.Q	.	.	.
12.500	3844.7988	6531.93	.	V	.Q	.	.	.
12.583	3890.4124	6623.08	.	V	.Q	.	.	.
12.667	3936.6619	6715.44	.	V	.Q	.	.	.
12.750	3983.5710	6811.21	.	V	.Q	.	.	.
12.833	4031.3171	6932.72	.	V	.Q	.	.	.
12.917	4079.9746	7065.05	.	V	.Q	.	.	.
13.000	4129.6709	7215.88	.	V	.Q	.	.	.
13.083	4180.5371	7385.77	.	V	.Q	.	.	.
13.167	4232.6260	7563.30	.	V	Q	.	.	.
13.250	4285.9165	7737.77	.	V	Q	.	.	.
13.333	4340.4995	7925.45	.	V	Q	.	.	.
13.417	4396.5806	8142.94	.	V	Q	.	.	.
13.500	4453.9370	8328.17	.	V	Q	.	.	.
13.583	4512.6128	8519.74	.	V	Q	.	.	.

13.667	4572.8271	8743.11	.	V	Q	.	.	.
13.750	4634.5723	8965.40	.	.V	Q	.	.	.
13.833	4697.6748	9162.46	.	.V	Q	.	.	.
13.917	4762.2881	9381.84	.	.V	Q	.	.	.
14.000	4828.5171	9616.45	.	.V	Q.	.	.	.
14.083	4896.6763	9896.70	.	.V	Q.	.	.	.
14.167	4966.5830	10150.43	.	.V	Q	.	.	.
14.250	5038.3130	10415.18	.	.V	Q	.	.	.
14.333	5112.1748	10724.76	.	.V	.Q	.	.	.
14.417	5188.1191	11027.09	.	.V	.Q	.	.	.
14.500	5266.3667	11361.58	.	.V	.Q	.	.	.
14.583	5346.7134	11666.33	.	.V	.Q	.	.	.
14.667	5428.9214	11936.59	.	.V	.Q	.	.	.
14.750	5512.9854	12206.07	.	.V	.Q	.	.	.
14.833	5599.2842	12530.56	.	.V	.Q	.	.	.
14.917	5688.0981	12895.76	.	.V	.Q	.	.	.
15.000	5779.1655	13222.96	.	.V	.Q	.	.	.
15.083	5872.4380	13543.19	.	.V	.Q	.	.	.
15.167	5968.0420	13881.70	.	.V	.Q	.	.	.
15.250	6065.7295	14184.25	.	.V	.Q	.	.	.
15.333	6165.5874	14499.39	.	.V	.Q	.	.	.
15.417	6267.5645	14807.04	.	.V	.Q	.	.	.
15.500	6371.1094	15034.75	.	.V	.Q	.	.	.
15.583	6476.2383	15264.69	.	.V	.Q	.	.	.
15.667	6583.1641	15525.65	.	.V	.Q	.	.	.
15.750	6691.8242	15777.45	.	.V	.Q	.	.	.
15.833	6801.9155	15985.27	.	.V	.Q	.	.	.
15.917	6913.4971	16201.62	.	.V	.Q	.	.	.
16.000	7026.7251	16440.72	.	.V	.Q	.	.	.
16.083	7142.5610	16819.35	.	.V	.Q	.	.	.
16.167	7260.3452	17102.23	.	.V	.Q	.	.	.
16.250	7379.0215	17231.76	.	.V	.Q	.	.	.
16.333	7498.7236	17380.75	.	.V	.Q	.	.	.
16.417	7619.3535	17515.48	.	.V	.Q	.	.	.
16.500	7741.4058	17722.00	.	.V	.Q	.	.	.
16.583	7864.9575	17939.69	.	.V	.Q	.	.	.
16.667	7989.1450	18032.06	.	.V	.Q	.	.	.
16.750	8113.9697	18124.52	.	.V	.Q	.	.	.
16.833	8241.4521	18510.44	.	.V	.Q	.	.	.
16.917	8370.8262	18785.10	.	.V	.Q	.	.	.
17.000	8501.9326	19036.60	.	.V	.Q	.	.	.
17.083	8634.3691	19229.77	.	.V	.Q	.	.	.
17.167	8767.8779	19385.52	.	.V	.Q	.	.	.
17.250	8901.5322	19406.54	.	.V	.Q	.	.	.
17.333	9036.2598	19562.43	.	.V	.Q	.	.	.
17.417	9172.6104	19798.09	.	.V	.Q	.	.	.
17.500	9307.0479	19520.33	.	.V	.Q	.	.	.
17.583	9442.0986	19609.34	.	.V	.Q	.	.	.
17.667	9578.8193	19851.86	.	.V	.Q	.	.	.
17.750	9715.2119	19804.22	.	.V	.Q	.	.	.
17.833	9849.4883	19496.98	.	.V	.Q	.	.	.
17.917	9985.1201	19693.80	.	.V	.Q	.	.	.
18.000	10121.8018	19846.18	.	.V	.Q	.	.	.
18.083	10260.1699	20091.11	.	.V	.Q	.	.	.
18.167	10395.0127	19579.20	.	.V	.Q	.	.	.
18.250	10529.8408	19577.02	.	.V	.Q	.	.	.
18.333	10667.2285	19948.73	.	.V	.Q	.	.	.
18.417	10803.9238	19848.09	.	.V	.Q	.	.	.



18.500	10941.3584	19955.53	.	.	.	V	.	Q.
18.583	11075.1387	19424.93	.	.	.	V	.	Q.
18.667	11206.1943	19029.25	.	.	.	V	.	Q.
18.750	11337.0889	19005.92	.	.	.	V	.	Q.
18.833	11470.4355	19361.99	.	.	.	V	.	Q.
18.917	11605.1553	19561.36	.	.	.	V	.	Q.
19.000	11735.1104	18869.49	.	.	.	V	.	Q.
19.083	11862.1289	18443.07	.	.	.	V	.	Q.
19.167	11988.9795	18418.66	.	.	.	V	.	Q.
19.250	12113.1348	18027.29	.	.	.	V	.	Q.
19.333	12235.9570	17833.76	.	.	.	V	.	Q.
19.417	12355.7920	17400.05	.	.	.	V	.	Q.
19.500	12472.0430	16879.61	.	.	.	V	.	Q.
19.583	12586.6260	16637.48	.	.	.	V	.	Q.
19.667	12699.8613	16441.72	.	.	.	V	.	Q.
19.750	12811.4463	16202.10	.	.	.	V	.	Q.
19.833	12920.5098	15835.96	.	.	.	V	.	Q.
19.917	13026.6436	15410.67	.	.	.	Q	.	.
20.000	13129.9902	15005.90	.	.	.	Q.V	.	.
20.083	13230.1514	14543.35	.	.	.	Q.V	.	.
20.167	13327.5957	14148.96	.	.	.	Q.V	.	.
20.250	13422.2002	13736.61	.	.	.	Q.V	.	.
20.333	13514.2959	13372.27	.	.	.	Q.V	.	.
20.417	13603.6768	12978.16	.	.	.	Q.Q	.	.
20.500	13690.4492	12599.30	.	.	.	Q.Q	.	.
20.583	13774.8516	12255.17	.	.	.	Q.Q	.	.
20.667	13856.9619	11922.47	.	.	.	Q.Q	.	.
20.750	13936.8994	11606.86	.	.	.	Q.Q	.	.
20.833	14014.3721	11249.04	.	.	.	Q.Q	.	.
20.917	14088.5830	10775.44	.	.	.	Q.Q	.	.
21.000	14160.4570	10436.15	.	.	.	Q	.	.
21.083	14230.4150	10157.89	.	.	.	Q	.	.
21.167	14298.3555	9864.93	.	.	.	Q	.	.
21.250	14364.3418	9581.18	.	.	.	Q	.	.
21.333	14428.0381	9248.66	.	.	.	Q	.	.
21.417	14490.0801	9008.49	.	.	.	Q	.	.
21.500	14550.7236	8805.51	.	.	.	Q	.	.
21.583	14610.0049	8607.67	.	.	.	Q	.	.
21.667	14667.8633	8401.08	.	.	.	Q	.	.
21.750	14724.2578	8188.55	.	.	.	Q	.	.
21.833	14779.1777	7974.38	.	.	.	Q	.	.
21.917	14832.2383	7704.45	.	.	.	Q	.	.
22.000	14883.6826	7469.75	.	.	.	Q	.	.
22.083	14934.0312	7310.56	.	.	.	Q	.	.
22.167	14983.3486	7160.92	.	.	.	Q	.	.
22.250	15031.6846	7018.44	.	.	.	Q	.	.
22.333	15079.0527	6877.82	.	.	.	Q	.	.
22.417	15125.4932	6743.21	.	.	.	Q	.	.
22.500	15171.0254	6611.29	.	.	.	Q	.	.
22.583	15215.6318	6476.91	.	.	.	Q	.	.
22.667	15259.3438	6346.98	.	.	.	Q	.	.
22.750	15302.1719	6218.64	.	.	.	Q	.	.
22.833	15344.1289	6092.18	.	.	.	Q	.	.
22.917	15385.3486	5985.15	.	.	.	Q	.	.
23.000	15425.8994	5887.92	.	.	.	Q	.	.
23.083	15465.7988	5793.39	.	.	.	Q	.	.
23.167	15505.0547	5699.91	.	.	.	Q	.	.
23.250	15543.6982	5611.11	.	.	.	Q	.	.

23.333	15581.7979	5532.12	.	.	.	.Q	.	V.
23.417	15619.3711	5455.57	.	.	.	Q	.	V.
23.500	15656.4277	5380.57	.	.	.	Q	.	V.
23.583	15692.9785	5307.14	.	.	.	Q	.	V.
23.667	15729.0332	5235.19	.	.	.	Q	.	V.
23.750	15764.6025	5164.67	.	.	.	Q	.	V.
23.833	15799.6953	5095.54	.	.	.	Q	.	V.
23.917	15834.4033	5039.63	.	.	.	Q	.	V.
24.000	15868.7842	4992.15	.	.	.	Q.	.	V.
24.083	15902.7939	4938.19	.	.	.	Q.	.	V.
24.167	15936.3887	4877.92	.	.	.	Q.	.	V.
24.250	15969.5820	4819.68	.	.	.	Q.	.	V.
24.333	16002.3799	4762.22	.	.	.	Q.	.	V.
24.417	16034.7715	4703.29	.	.	.	Q.	.	V.
24.500	16066.7246	4639.54	.	.	.	Q.	.	V.
24.583	16098.0039	4541.68	.	.	.	Q.	.	V.
24.667	16128.7842	4469.33	.	.	.	Q.	.	V.
24.750	16159.1357	4406.99	.	.	.	Q.	.	V.
24.833	16188.9795	4333.29	.	.	.	Q.	.	V.
24.917	16218.2617	4251.72	.	.	.	Q.	.	V.
25.000	16246.9141	4160.29	.	.	.	Q.	.	V.
25.083	16274.8740	4059.85	.	.	.	Q.	.	V.
25.167	16302.1221	3956.48	.	.	.	Q.	.	V.
25.250	16328.6787	3856.01	.	.	.	Q.	.	V.
25.333	16354.5029	3749.62	.	.	.	Q.	.	V.
25.417	16379.4932	3628.61	.	.	.	Q.	.	V.
25.500	16403.7773	3526.02	.	.	.	Q.	.	V.
25.583	16427.3613	3424.40	.	.	.	Q.	.	V.
25.667	16450.1445	3308.18	.	.	.	Q.	.	V.
25.750	16472.1426	3194.14	.	.	.	Q.	.	V.
25.833	16493.4590	3095.05	.	.	.	Q.	.	V.
25.917	16514.0215	2985.58	.	.	.	Q.	.	V.
26.000	16533.7832	2869.47	.	.	.	Q.	.	V.
26.083	16552.6328	2736.98	.	.	.	Q.	.	V.
26.167	16570.7207	2626.43	.	.	.	Q.	.	V.
26.250	16588.0137	2510.96	.	.	.	Q.	.	V.
26.333	16604.3535	2372.56	.	.	.	Q.	.	V.
26.417	16619.7734	2239.02	.	.	.	Q.	.	V.
26.500	16634.1758	2091.36	.	.	.	Q.	.	V.
26.583	16647.7324	1968.31	.	.	.	Q.	.	V.
26.667	16660.5801	1865.47	.	.	.	Q.	.	V.
26.750	16672.7344	1764.85	.	.	.	Q.	.	V.
26.833	16684.0801	1647.48	.	.	.	Q.	.	V.
26.917	16694.5020	1513.39	.	.	.	Q.	.	V.
27.000	16704.1992	1407.94	.	.	.	Q.	.	V.
27.083	16713.2520	1314.59	.	.	.	Q.	.	V.
27.167	16721.6113	1213.77	.	.	.	Q.	.	V.
27.250	16729.3887	1129.14	.	.	.	Q.	.	V.
27.333	16736.5684	1042.36	.	.	.	Q.	.	V.
27.417	16743.2031	963.44	.	.	.	.Q	.	V.
27.500	16749.4062	900.56	.	.	.	.Q	.	V.
27.583	16755.1855	839.26	.	.	.	.Q	.	V.
27.667	16760.5352	776.81	.	.	.	.Q	.	V.
27.750	16765.4590	714.82	.	.	.	.Q	.	V.
27.833	16769.9883	657.79	.	.	.	.Q	.	V.
27.917	16774.1543	604.92	.	.	.	.Q	.	V.
28.000	16777.9844	556.17	.	.	.	.Q	.	V.
28.083	16781.5234	513.97	.	.	.	.Q	.	V.

28.167	16784.7969	475.34	Q	.	.	.	V.
28.250	16787.8457	442.78	Q	.	.	.	V.
28.333	16790.6738	410.73	Q	.	.	.	V.
28.417	16793.2988	381.07	Q	.	.	.	V.
28.500	16795.7266	352.39	Q	.	.	.	V.
28.583	16797.9590	324.18	Q	.	.	.	V.
28.667	16800.0117	298.03	Q	.	.	.	V.
28.750	16801.8887	272.40	Q	.	.	.	V.
28.833	16803.5918	247.43	Q	.	.	.	V.
28.917	16805.1641	228.30	Q	.	.	.	V.
29.000	16806.6172	211.01	Q	.	.	.	V.
29.083	16807.9531	193.85	Q	.	.	.	V.
29.167	16809.1699	176.79	Q	.	.	.	V.
29.250	16810.2793	161.15	Q	.	.	.	V.
29.333	16811.3125	149.96	Q	.	.	.	V.
29.417	16812.2715	139.22	Q	.	.	.	V.
29.500	16813.1562	128.56	Q	.	.	.	V.
29.583	16813.9688	117.96	Q	.	.	.	V.
29.667	16814.7090	107.45	Q	.	.	.	V.
29.750	16815.3770	97.01	Q	.	.	.	V.
29.833	16815.9746	86.65	Q	.	.	.	V.
29.917	16816.5293	80.48	Q	.	.	.	V.
30.000	16817.0645	77.61	Q	.	.	.	V.
30.083	16817.5801	74.75	Q	.	.	.	V.
30.167	16818.0762	71.90	Q	.	.	.	V.
30.250	16818.5527	69.09	Q	.	.	.	V.
30.333	16819.0098	66.31	Q	.	.	.	V.
30.417	16819.4473	63.53	Q	.	.	.	V.
30.500	16819.8652	60.76	Q	.	.	.	V.
30.583	16820.2656	58.05	Q	.	.	.	V.
30.667	16820.6465	55.34	Q	.	.	.	V.
30.750	16821.0098	52.66	Q	.	.	.	V.
30.833	16821.3535	50.00	Q	.	.	.	V.
30.917	16821.6797	47.34	Q	.	.	.	V.
31.000	16821.9883	44.73	Q	.	.	.	V.
31.083	16822.2773	42.11	Q	.	.	.	V.
31.167	16822.5488	39.53	Q	.	.	.	V.
31.250	16822.8027	36.97	Q	.	.	.	V.
31.333	16823.0391	34.43	Q	.	.	.	V.
31.417	16823.2598	31.91	Q	.	.	.	V.
31.500	16823.4629	29.40	Q	.	.	.	V.
31.583	16823.6484	26.91	Q	.	.	.	V.
31.667	16823.8164	24.43	Q	.	.	.	V.
31.750	16823.9668	21.98	Q	.	.	.	V.
31.833	16824.1016	19.53	Q	.	.	.	V.
31.917	16824.2188	17.11	Q	.	.	.	V.
32.000	16824.3203	14.70	Q	.	.	.	V.
32.083	16824.4043	12.30	Q	.	.	.	V.
32.167	16824.4727	9.92	Q	.	.	.	V.
32.250	16824.5254	7.55	Q	.	.	.	V.
32.333	16824.5605	5.20	Q	.	.	.	V.
32.417	16824.5801	2.86	Q	.	.	.	V.
32.500	16824.5840	0.54	Q	.	.	.	V.

-----  
TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
(Note: 100% of Peak Flow Rate estimate assumed to have  
an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
=====	=====
0%	1950.0
10%	1435.0
20%	1175.0
30%	660.0
40%	505.0
50%	420.0
60%	355.0
70%	300.0
80%	235.0
90%	150.0

-----  
END OF FLOODSCx ROUTING ANALYSIS

\*\*\*\*\*

FLOOD ROUTING ANALYSIS  
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)  
(c) Copyright 1989-2013 Advanced Engineering Software (aes)  
Ver. 20.0 Release Date: 06/01/2013 License ID 1237

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*  
\* RMV PA-3 ROMP AMENDMENT 2022 - NODE 134T \*  
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*  
\* 50-YR EV MAY 2023 ROKAMOTO \*  
\*\*\*\*\*

FILE NAME: EV5034TS.DAT  
TIME/DATE OF STUDY: 11:13 05/16/2023

\*\* INPUT SUMMARY \*\*

\*\*\*\*\*

FLOW PROCESS FROM NODE 13500.00 TO NODE 134.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS) ADDED TO STREAM #1<<<<

=====

WATERSHED AREA = 3859.700 ACRES; BASEFLOW = 0.000 CFS/SQUARE-MILE  
\*USER ENTERED "LAG" TIME = 1.289 HOURS  
VALLEY (DEVELOPED) S-GRAPH SELECTED  
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.284; LOW LOSS FRACTION = 0.431  
SPECIFIED PEAK RAINFALL DEPTHS (INCH):  
5-MINUTE = 0.37; 30-MINUTE = 0.80; 1-HOUR = 1.06  
3-HOUR = 1.78; 6-HOUR = 2.47; 24-HOUR = 4.12  
\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:  
5-MINUTE = 0.828; 30-MINUTE = 0.828; 1-HOUR = 0.828  
3-HOUR = 0.974; 6-HOUR = 0.987; 24-HOUR = 0.992

=====

-----+  
-----+  
| \* AES FLOODSCx PROGRAM RESULTS SUMMARY \*  
|  
| INPUT FILENAME: [EV5034TS.DAT ]  
Page: 1 of |  
-----+-----+  
-----+-----+  
| UPSTREAM DOWNSTREAM | UPSTREAM DOWNSTREAM |  
TIME (2) TO | MAX. STORAGE |  
| NODE # NODE # | HYDROLOGIC/HYDRAULIC PROCESS | PEAK (CFS) PEAK (CFS) |  
PEAK (HR) | MODELED (AF) | FOOTNOTES |  
-----+-----+  
-----+-----+  
| 13500.00 134.00 | Subarea (UH) Added to Stream #1 | 0.0 2052.4 |  
17.333 | | |  
-----+-----+  
-----+-----+  
| Notes: 1 = BASIN MODEL VOLUME EXCEEDED; 2 = TIME IS AT END OF 5-MINUTE UNIT  
INTERVAL |  
| 3 = RUNOFF ESTIMATES DO NOT EXTEND PAST 2 DAYS AFTER THE PEAK DAY OF  
THE DESIGN STORM |  
-----+-----+  
-----+-----+

END OF FLOODSCx ROUTING ANALYSIS

\*\*\*\*\*

FLOOD ROUTING ANALYSIS
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)
(c) Copyright 1989-2013 Advanced Engineering Software (aes)
Ver. 20.0 Release Date: 06/01/2013 License ID 1237

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*
\* RMV PA-3 ROMP AMENDMENT 2022 - NODE 134U \*
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*
\* 50-YR EV OCT 2022 ROKAMOTO \*

FILE NAME: EV5034US.DAT
TIME/DATE OF STUDY: 10:13 10/25/2022

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 134.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<

=====

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 62747.398 ACRES
BASEFLOW = 0.000 CFS/SQUARE-MILE
\*USER ENTERED "LAG" TIME = 2.480 HOURS
VALLEY (DEVELOPED) S-GRAPH SELECTED
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.284
LOW LOSS FRACTION = 0.416
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.44
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.86
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 1.18
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 2.17
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 3.20
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 5.59

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:
5-MINUTE FACTOR = 0.304
30-MINUTE FACTOR = 0.358
1-HOUR FACTOR = 0.405
3-HOUR FACTOR = 0.750
6-HOUR FACTOR = 0.890
24-HOUR FACTOR = 0.936

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 3.360

UNIT HYDROGRAPH DETERMINATION

Table with 3 columns: INTERVAL NUMBER, "S" GRAPH MEAN VALUES, UNIT HYDROGRAPH ORDINATES (CFS). Rows 1-48.

49	87.299	7900.919
50	88.250	7223.828
51	89.045	6028.454
52	89.832	5972.295
53	90.560	5526.729
54	91.268	5369.079
55	91.968	5312.862
56	92.618	4930.171
57	93.258	4858.554
58	93.885	4761.463
59	94.358	3590.406
60	94.785	3237.531
61	95.212	3237.589
62	95.639	3239.731
63	96.030	2972.889
64	96.304	2075.273
65	96.567	2000.356
66	96.831	1998.099
67	97.095	2002.499
68	97.358	1998.099
69	97.622	2000.299
70	97.885	1998.099
71	98.036	1146.799
72	98.098	474.166
73	98.162	478.624
74	98.225	478.566
75	98.288	478.566
76	98.350	476.366
77	98.413	478.566
78	98.477	482.966
79	98.540	476.366
80	98.603	478.566
81	98.666	478.624
82	98.729	476.366
83	98.792	480.766
84	98.855	476.366
85	98.918	480.766
86	98.981	476.366
87	99.044	476.366
88	99.107	476.366
89	99.169	476.366
90	99.232	476.366
91	99.295	476.366
92	99.358	476.366
93	99.420	476.366
94	99.483	476.366
95	99.546	476.366
96	99.609	476.366
97	99.672	476.366
98	99.734	476.366
99	99.797	476.366
100	99.860	476.366
101	99.923	476.366
102	99.985	476.366
103	100.000	110.349

TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 11216.4385  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 16141.8340

2 4 - 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 FIVE-MINUTE UNIT INTERVALS (CFS)

(Note: Time indicated is at END of Each Unit Intervals)

TIME (HRS)	VOLUME (AF)	Q (CFS)	0.	4850.0	9700.0	14550.0	19400.0
0.083	0.0468	6.79	Q	.	.	.	.
0.167	0.1872	20.39	Q	.	.	.	.
0.250	0.4215	34.02	Q	.	.	.	.
0.333	0.7500	47.70	Q	.	.	.	.
0.417	1.1729	61.41	Q	.	.	.	.
0.500	1.7059	77.39	Q	.	.	.	.
0.583	2.3817	98.13	Q	.	.	.	.
0.667	3.2018	119.08	Q	.	.	.	.
0.750	4.1748	141.28	Q	.	.	.	.
0.833	5.3888	176.27	Q	.	.	.	.
0.917	6.8788	216.36	Q	.	.	.	.
1.000	8.7084	265.65	Q	.	.	.	.
1.083	10.9421	324.34	Q	.	.	.	.
1.167	13.6058	386.77	Q	.	.	.	.
1.250	16.6866	447.32	Q	.	.	.	.
1.333	20.2297	514.46	VQ	.	.	.	.
1.417	24.3384	596.59	VQ	.	.	.	.
1.500	28.8982	662.07	VQ	.	.	.	.
1.583	33.9292	730.51	VQ	.	.	.	.
1.667	39.5422	815.01	VQ	.	.	.	.
1.750	45.7318	898.73	VQ	.	.	.	.
1.833	52.4077	969.34	VQ	.	.	.	.
1.917	59.6464	1051.06	V Q	.	.	.	.
2.000	67.4999	1140.33	V Q	.	.	.	.
2.083	76.0855	1246.62	V Q	.	.	.	.
2.167	85.2667	1333.11	V Q	.	.	.	.
2.250	95.0845	1425.55	V Q	.	.	.	.
2.333	105.6986	1541.16	V Q	.	.	.	.
2.417	117.0864	1653.51	V Q	.	.	.	.
2.500	129.3502	1780.71	V Q	.	.	.	.
2.583	142.3591	1888.89	V Q	.	.	.	.
2.667	155.9943	1979.83	V Q	.	.	.	.
2.750	170.2489	2069.76	V Q	.	.	.	.
2.833	185.2410	2176.86	V Q	.	.	.	.
2.917	201.0898	2301.25	V Q	.	.	.	.
3.000	217.6146	2399.39	V Q	.	.	.	.
3.083	234.7428	2487.01	V Q	.	.	.	.
3.167	252.5304	2582.76	V Q	.	.	.	.
3.250	270.8775	2664.00	V Q	.	.	.	.
3.333	289.8043	2748.17	V Q	.	.	.	.
3.417	309.2650	2825.70	V Q	.	.	.	.
3.500	329.1590	2888.61	V Q	.	.	.	.
3.583	349.4807	2950.71	V Q	.	.	.	.
3.667	370.2423	3014.58	V Q	.	.	.	.
3.750	391.4453	3078.69	V Q	.	.	.	.
3.833	413.0617	3138.70	.V Q	.	.	.	.
3.917	435.0681	3195.34	.V Q	.	.	.	.

4.000	457.4413	3248.59	.V Q	.	.	.	.
4.083	480.1420	3296.13	.V Q	.	.	.	.
4.167	503.1496	3340.70	.V Q	.	.	.	.
4.250	526.4273	3379.93	.V Q	.	.	.	.
4.333	549.9745	3419.06	.V Q	.	.	.	.
4.417	573.7784	3456.32	.V Q	.	.	.	.
4.500	597.8351	3493.02	.V Q	.	.	.	.
4.583	622.1440	3529.65	.V Q	.	.	.	.
4.667	646.6941	3564.67	.V Q	.	.	.	.
4.750	671.4845	3599.56	.V Q	.	.	.	.
4.833	696.5132	3634.17	.V Q	.	.	.	.
4.917	721.7441	3663.52	.V Q	.	.	.	.
5.000	747.1668	3691.38	.V Q	.	.	.	.
5.083	772.7827	3719.43	.V Q	.	.	.	.
5.167	798.5930	3747.65	.V Q	.	.	.	.
5.250	824.5903	3774.81	.V Q	.	.	.	.
5.333	850.7470	3797.95	.V Q	.	.	.	.
5.417	877.0620	3820.93	.V Q	.	.	.	.
5.500	903.5360	3844.03	.V Q	.	.	.	.
5.583	930.1707	3867.35	.V Q	.	.	.	.
5.667	956.9669	3890.80	.V Q	.	.	.	.
5.750	983.9259	3914.45	.V Q	.	.	.	.
5.833	1011.0488	3938.25	.V Q	.	.	.	.
5.917	1038.3097	3958.28	.V Q	.	.	.	.
6.000	1065.6880	3975.33	.V Q	.	.	.	.
6.083	1093.1851	3992.58	.V Q	.	.	.	.
6.167	1120.8020	4009.97	.V Q	.	.	.	.
6.250	1148.5400	4027.56	.V Q	.	.	.	.
6.333	1176.4001	4045.29	.V Q	.	.	.	.
6.417	1204.3838	4063.23	.V Q	.	.	.	.
6.500	1232.4922	4081.34	.V Q	.	.	.	.
6.583	1260.7266	4099.63	.V Q	.	.	.	.
6.667	1289.0880	4118.09	.V Q	.	.	.	.
6.750	1317.5781	4136.76	.V Q	.	.	.	.
6.833	1346.1979	4155.59	.V Q	.	.	.	.
6.917	1374.9490	4174.66	.V Q	.	.	.	.
7.000	1403.8325	4193.88	.V Q	.	.	.	.
7.083	1432.8501	4213.35	.V Q	.	.	.	.
7.167	1462.0029	4232.99	.V Q	.	.	.	.
7.250	1491.2926	4252.85	.V Q	.	.	.	.
7.333	1520.7203	4272.91	.V Q	.	.	.	.
7.417	1550.2880	4293.21	.V Q	.	.	.	.
7.500	1579.9968	4313.72	.V Q	.	.	.	.
7.583	1609.8485	4334.47	.V Q	.	.	.	.
7.667	1639.8446	4355.42	.V Q	.	.	.	.
7.750	1669.9868	4376.65	.V Q	.	.	.	.
7.833	1700.2766	4398.09	.V Q	.	.	.	.
7.917	1730.7159	4419.79	.V Q	.	.	.	.
8.000	1761.3064	4441.73	.V Q	.	.	.	.
8.083	1792.0498	4463.95	.V Q	.	.	.	.
8.167	1822.9479	4486.40	.V Q	.	.	.	.
8.250	1854.0026	4509.15	.V Q	.	.	.	.
8.333	1885.2157	4532.14	.V Q	.	.	.	.
8.417	1916.5892	4555.44	.V Q	.	.	.	.
8.500	1948.1250	4579.00	.V Q	.	.	.	.
8.583	1979.8135	4601.17	.V Q	.	.	.	.
8.667	2011.6530	4623.09	.V Q	.	.	.	.
8.750	2043.6456	4645.34	.V Q	.	.	.	.

8.833	2075.7935	4667.86	.	V	Q.	.	.	.
8.917	2108.0989	4690.73	.	V	Q.	.	.	.
9.000	2140.5637	4713.89	.	V	Q.	.	.	.
9.083	2173.1904	4737.40	.	V	Q.	.	.	.
9.167	2205.9812	4761.22	.	V	Q.	.	.	.
9.250	2238.9385	4785.40	.	V	Q.	.	.	.
9.333	2272.0647	4809.91	.	V	Q.	.	.	.
9.417	2305.3623	4834.81	.	V	Q.	.	.	.
9.500	2338.8337	4860.04	.	V	Q	.	.	.
9.583	2372.4817	4885.69	.	V	Q	.	.	.
9.667	2406.3086	4911.68	.	V	Q	.	.	.
9.750	2440.3176	4938.11	.	V	Q	.	.	.
9.833	2474.5112	4964.91	.	V	Q	.	.	.
9.917	2508.8926	4992.16	.	V	Q	.	.	.
10.000	2543.4644	5019.81	.	V	Q	.	.	.
10.083	2578.2297	5047.93	.	V	Q	.	.	.
10.167	2613.1917	5076.46	.	V	Q	.	.	.
10.250	2648.3535	5105.49	.	V	Q	.	.	.
10.333	2683.7183	5134.97	.	V	Q	.	.	.
10.417	2719.2896	5164.97	.	V	Q	.	.	.
10.500	2755.0708	5195.44	.	V	Q	.	.	.
10.583	2791.0657	5226.46	.	V	Q	.	.	.
10.667	2827.2776	5257.97	.	V	Q	.	.	.
10.750	2863.7107	5290.07	.	V	Q	.	.	.
10.833	2900.3684	5322.70	.	V	Q	.	.	.
10.917	2937.2551	5355.95	.	V	.Q	.	.	.
11.000	2974.3748	5389.76	.	V	.Q	.	.	.
11.083	3011.7317	5424.22	.	V	.Q	.	.	.
11.167	3049.3301	5459.28	.	V	.Q	.	.	.
11.250	3087.1748	5495.04	.	V	.Q	.	.	.
11.333	3125.2700	5531.43	.	V	.Q	.	.	.
11.417	3163.6211	5568.56	.	V	.Q	.	.	.
11.500	3202.2324	5606.38	.	V	.Q	.	.	.
11.583	3241.1096	5644.98	.	V	.Q	.	.	.
11.667	3280.2578	5684.30	.	V	.Q	.	.	.
11.750	3319.6826	5724.47	.	V	.Q	.	.	.
11.833	3359.3894	5765.42	.	V	.Q	.	.	.
11.917	3399.3845	5807.27	.	V	.Q	.	.	.
12.000	3439.6733	5849.95	.	V	.Q	.	.	.
12.083	3480.3477	5905.93	.	V	.Q	.	.	.
12.167	3521.4983	5975.06	.	V	.Q	.	.	.
12.250	3563.1313	6045.12	.	V	.Q	.	.	.
12.333	3605.2524	6115.99	.	V	.Q	.	.	.
12.417	3647.8684	6187.85	.	V	.Q	.	.	.
12.500	3691.0132	6264.62	.	V	.Q	.	.	.
12.583	3734.7527	6350.98	.	V	.Q	.	.	.
12.667	3779.0952	6438.52	.	V	.Q	.	.	.
12.750	3824.0627	6529.27	.	V	.Q	.	.	.
12.833	3869.8208	6644.07	.	V	.Q	.	.	.
12.917	3916.4392	6769.00	.	V	.Q	.	.	.
13.000	3964.0371	6911.22	.	V	.Q	.	.	.
13.083	4012.7373	7071.28	.	V	.Q	.	.	.
13.167	4062.5894	7238.51	.	V	.Q	.	.	.
13.250	4113.5742	7402.97	.	V	.Q	.	.	.
13.333	4165.7769	7579.80	.	V	.Q	.	.	.
13.417	4219.3892	7784.50	.	V	.Q	.	.	.
13.500	4274.2046	7959.20	.	V	.Q	.	.	.
13.583	4330.2646	8139.90	.	V	.Q	.	.	.

13.667	4387.7739	8350.32	.	V	Q	.	.	.
13.750	4446.7261	8559.83	.	.V	Q	.	.	.
13.833	4506.9595	8745.91	.	.V	Q	.	.	.
13.917	4568.6187	8952.90	.	.V	Q	.	.	.
14.000	4631.8018	9174.18	.	.V	Q	.	.	.
14.083	4696.8071	9438.79	.	.V	Q.	.	.	.
14.167	4763.4697	9679.44	.	.V	Q.	.	.	.
14.250	4831.8613	9930.45	.	.V	Q	.	.	.
14.333	4902.2700	10223.32	.	.V	.Q	.	.	.
14.417	4974.6499	10509.54	.	.V	.Q	.	.	.
14.500	5049.2095	10826.05	.	.V	.Q	.	.	.
14.583	5125.7617	11115.39	.	.V	.Q	.	.	.
14.667	5204.0859	11372.70	.	.V	.Q	.	.	.
14.750	5284.1787	11629.48	.	.V	.Q	.	.	.
14.833	5366.4023	11938.85	.	.V	.Q	.	.	.
14.917	5451.0220	12286.74	.	.V	.Q	.	.	.
15.000	5537.7998	12600.13	.	.V	.Q	.	.	.
15.083	5626.6978	12907.96	.	.V	.Q	.	.	.
15.167	5717.8350	13233.14	.	.V	.Q	.	.	.
15.250	5810.9795	13524.60	.	.V	.Q	.	.	.
15.333	5906.2163	13828.39	.	.V	.Q	.	.	.
15.417	6003.5049	14126.29	.	.V	.Q	.	.	.
15.500	6102.3179	14347.65	.	.V	.Q	.	.	.
15.583	6202.6719	14571.38	.	.V	.Q	.	.	.
15.667	6304.7769	14825.63	.	.V	.Q	.	.	.
15.750	6408.5669	15070.31	.	.V	.Q	.	.	.
15.833	6513.7437	15271.69	.	.V	.Q	.	.	.
15.917	6620.3706	15482.20	.	.V	.Q	.	.	.
16.000	6728.6030	15715.37	.	.V	.Q	.	.	.
16.083	6839.4106	16089.29	.	.V	.Q	.	.	.
16.167	6952.1543	16370.36	.	.V	.Q	.	.	.
16.250	7065.7866	16499.43	.	.V	.Q	.	.	.
16.333	7180.4507	16649.25	.	.V	.Q	.	.	.
16.417	7296.0522	16785.32	.	.V	.Q	.	.	.
16.500	7413.0728	16991.37	.	.V	.Q	.	.	.
16.583	7531.5884	17208.49	.	.V	.Q	.	.	.
16.667	7650.7358	17300.18	.	.V	.Q	.	.	.
16.750	7770.5210	17392.82	.	.V	.Q	.	.	.
16.833	7892.9497	17776.63	.	.V	.Q	.	.	.
16.917	8017.2520	18048.68	.	.V	.Q	.	.	.
17.000	8143.2959	18301.58	.	.V	.Q	.	.	.
17.083	8270.6807	18496.33	.	.V	.Q	.	.	.
17.167	8399.1416	18652.58	.	.V	.Q	.	.	.
17.250	8527.7588	18675.17	.	.V	.Q	.	.	.
17.333	8657.4629	18833.07	.	.V	.Q	.	.	.
17.417	8788.8223	19073.40	.	.V	.Q	.	.	.
17.500	8918.2695	18795.71	.	.V	.Q	.	.	.
17.583	9048.3447	18886.90	.	.V	.Q	.	.	.
17.667	9180.1182	19133.47	.	.V	.Q	.	.	.
17.750	9311.5566	19084.92	.	.V	.Q	.	.	.
17.833	9440.9033	18781.20	.	.V	.Q	.	.	.
17.917	9571.6191	18980.00	.	.V	.Q	.	.	.
18.000	9703.3525	19127.70	.	.V	.Q	.	.	.
18.083	9836.7705	19372.24	.	.V	.Q	.	.	.
18.167	9966.6602	18860.03	.	.V	.Q	.	.	.
18.250	10096.5693	18862.78	.	.V	.Q	.	.	.
18.333	10229.0547	19236.85	.	.V	.Q	.	.	.
18.417	10360.8350	19134.55	.	.V	.Q	.	.	.

18.500	10493.3975	19248.10	.	.	.	V	.	Q.
18.583	10622.3096	18718.08	.	.	.	V	.	Q.
18.667	10748.5010	18322.93	.	.	.	V	.	Q.
18.750	10874.5225	18298.30	.	.	.	V	.	Q.
18.833	11002.9688	18650.39	.	.	.	V	.	Q.
18.917	11132.8047	18852.17	.	.	.	V	.	Q.
19.000	11257.9043	18164.43	.	.	.	V	.	Q.
19.083	11380.1309	17747.30	.	.	.	V	.	Q.
19.167	11502.2432	17730.65	.	.	.	V	.	Q.
19.250	11621.6719	17341.02	.	.	.	V	.	Q.
19.333	11739.8242	17155.71	.	.	.	V	.	Q.
19.417	11855.0518	16730.99	.	.	.	V	.	Q.
19.500	11966.7295	16215.66	.	.	.	V	.	Q.
19.583	12076.7842	15980.00	.	.	.	V	.	Q.
19.667	12185.5400	15791.35	.	.	.	V	.	Q.
19.750	12292.7012	15559.84	.	.	.	V	.	Q.
19.833	12397.4023	15202.60	.	.	.	V	.	Q.
19.917	12499.2578	14789.37	.	.	.	Q	.	.
20.000	12598.4092	14396.83	.	.	.	Q.V	.	.
20.083	12694.4717	13948.21	.	.	.	Q.V	.	.
20.167	12787.8994	13565.71	.	.	.	Q.V	.	.
20.250	12878.5645	13164.50	.	.	.	Q.V	.	.
20.333	12966.8213	12814.88	.	.	.	Q.V	.	.
20.417	13052.4619	12435.01	.	.	.	Q.V	.	.
20.500	13135.6064	12072.62	.	.	.	Q.V	.	.
20.583	13216.4854	11743.67	.	.	.	Q.V	.	.
20.667	13295.1602	11423.61	.	.	.	Q.V	.	.
20.750	13371.7520	11121.16	.	.	.	Q.V	.	.
20.833	13445.9873	10779.00	.	.	.	Q.V	.	.
20.917	13517.0820	10322.96	.	.	.	Q.V	.	.
21.000	13585.9414	9998.42	.	.	.	Q.V	.	.
21.083	13652.9736	9733.08	.	.	.	Q.V	.	.
21.167	13718.0840	9454.06	.	.	.	Q.V	.	.
21.250	13781.3232	9182.37	.	.	.	Q.V	.	.
21.333	13842.3545	8861.73	.	.	.	Q.V	.	.
21.417	13901.8076	8632.66	.	.	.	Q.V	.	.
21.500	13959.9238	8438.45	.	.	.	Q.V	.	.
21.583	14016.7393	8249.64	.	.	.	Q.V	.	.
21.667	14072.2012	8053.08	.	.	.	Q.V	.	.
21.750	14126.2705	7850.88	.	.	.	Q.V	.	.
21.833	14178.9346	7646.84	.	.	.	Q.V	.	.
21.917	14229.8027	7386.13	.	.	.	Q.V	.	.
22.000	14279.1133	7159.96	.	.	.	Q.V	.	.
22.083	14327.3789	7008.21	.	.	.	Q.V	.	.
22.167	14374.6592	6865.13	.	.	.	Q.V	.	.
22.250	14421.0010	6728.81	.	.	.	Q.V	.	.
22.333	14466.4180	6594.56	.	.	.	Q.V	.	.
22.417	14510.9502	6466.05	.	.	.	Q.V	.	.
22.500	14554.6152	6340.12	.	.	.	Q.V	.	.
22.583	14597.3955	6211.72	.	.	.	Q.V	.	.
22.667	14639.3203	6087.55	.	.	.	Q.V	.	.
22.750	14680.4004	5964.90	.	.	.	Q.V	.	.
22.833	14720.6484	5844.05	.	.	.	Q.V	.	.
22.917	14760.1924	5741.79	.	.	.	Q.V	.	.
23.000	14799.0977	5648.99	.	.	.	Q.V	.	.
23.083	14837.3818	5558.84	.	.	.	Q.V	.	.
23.167	14875.0518	5469.69	.	.	.	Q.V	.	.
23.250	14912.1387	5385.00	.	.	.	Q.V	.	.

23.333	14948.7061	5309.52	.	.	.	Q	.	V
23.417	14984.7695	5236.37	.	.	.	Q	.	V
23.500	15020.3389	5164.71	.	.	.	Q	.	V
23.583	15055.4258	5094.57	.	.	.	Q	.	V
23.667	15090.0391	5025.86	.	.	.	Q	.	V
23.750	15124.1885	4958.53	.	.	.	Q	.	V
23.833	15157.8838	4892.53	.	.	.	Q	.	V
23.917	15191.2100	4838.97	.	.	.	Q	.	V
24.000	15224.2217	4793.34	.	.	.	Q	.	V
24.083	15256.8760	4741.47	.	.	.	Q	.	V
24.167	15289.1318	4683.55	.	.	.	Q	.	V
24.250	15321.0039	4627.77	.	.	.	Q	.	V
24.333	15352.4971	4572.78	.	.	.	Q	.	V
24.417	15383.6016	4516.37	.	.	.	Q	.	V
24.500	15414.2852	4455.29	.	.	.	Q	.	V
24.583	15444.3135	4360.08	.	.	.	Q	.	V
24.667	15473.8613	4290.35	.	.	.	Q	.	V
24.750	15502.9971	4230.48	.	.	.	Q	.	V
24.833	15531.6445	4159.65	.	.	.	Q	.	V
24.917	15559.7529	4081.30	.	.	.	Q	.	V
25.000	15587.2559	3993.48	.	.	.	Q	.	V
25.083	15614.0947	3897.01	.	.	.	Q	.	V
25.167	15640.2500	3797.74	.	.	.	Q	.	V
25.250	15665.7402	3701.25	.	.	.	Q	.	V
25.333	15690.5273	3599.08	.	.	.	Q	.	V
25.417	15714.5137	3482.87	.	.	.	Q	.	V
25.500	15737.8223	3384.35	.	.	.	Q	.	V
25.583	15760.4590	3286.85	.	.	.	Q	.	V
25.667	15782.3281	3175.36	.	.	.	Q	.	V
25.750	15803.4434	3065.96	.	.	.	Q	.	V
25.833	15823.9043	2970.91	.	.	.	Q	.	V
25.917	15843.6416	2865.91	.	.	.	Q	.	V
26.000	15862.6123	2754.54	.	.	.	Q	.	V
26.083	15880.7080	2627.44	.	.	.	Q	.	V
26.167	15898.0732	2521.40	.	.	.	Q	.	V
26.250	15914.6758	2410.65	.	.	.	Q	.	V
26.333	15930.3633	2277.88	.	.	.	Q	.	V
26.417	15945.1689	2149.78	.	.	.	Q	.	V
26.500	15958.9990	2008.11	.	.	.	Q	.	V
26.583	15972.0156	1889.98	.	.	.	Q	.	V
26.667	15984.3516	1791.25	.	.	.	Q	.	V
26.750	15996.0225	1694.63	.	.	.	Q	.	V
26.833	16006.9170	1581.94	.	.	.	Q	.	V
26.917	16016.9248	1453.18	.	.	.	Q	.	V
27.000	16026.2354	1351.92	.	.	.	Q	.	V
27.083	16034.9287	1262.30	.	.	.	Q	.	V
27.167	16042.9551	1165.49	.	.	.	Q	.	V
27.250	16050.4219	1084.22	.	.	.	Q	.	V
27.333	16057.3154	1000.90	.	.	.	Q	.	V
27.417	16063.6865	925.11	.	.	.	Q	.	V
27.500	16069.6416	864.74	.	.	.	Q	.	V
27.583	16075.1914	805.88	.	.	.	Q	.	V
27.667	16080.3281	745.91	.	.	.	Q	.	V
27.750	16085.0557	686.39	.	.	.	Q	.	V
27.833	16089.4053	631.62	.	.	.	Q	.	V
27.917	16093.4053	580.86	.	.	.	Q	.	V
28.000	16097.0830	534.05	.	.	.	Q	.	V
28.083	16100.4814	493.52	.	.	.	Q	.	V



28.167	16103.6250	456.43	Q	.	.	.	V.
28.250	16106.5527	425.17	Q	.	.	.	V.
28.333	16109.2686	394.39	Q	.	.	.	V.
28.417	16111.7891	365.91	Q	.	.	.	V.
28.500	16114.1191	338.37	Q	.	.	.	V.
28.583	16116.2627	311.29	Q	.	.	.	V.
28.667	16118.2334	286.17	Q	.	.	.	V.
28.750	16120.0352	261.57	Q	.	.	.	V.
28.833	16121.6719	237.58	Q	.	.	.	V.
28.917	16123.1816	219.21	Q	.	.	.	V.
29.000	16124.5771	202.62	Q	.	.	.	V.
29.083	16125.8594	186.14	Q	.	.	.	V.
29.167	16127.0283	169.76	Q	.	.	.	V.
29.250	16128.0938	154.74	Q	.	.	.	V.
29.333	16129.0859	144.00	Q	.	.	.	V.
29.417	16130.0068	133.68	Q	.	.	.	V.
29.500	16130.8574	123.45	Q	.	.	.	V.
29.583	16131.6377	113.27	Q	.	.	.	V.
29.667	16132.3486	103.18	Q	.	.	.	V.
29.750	16132.9902	93.15	Q	.	.	.	V.
29.833	16133.5635	83.20	Q	.	.	.	V.
29.917	16134.0957	77.27	Q	.	.	.	V.
30.000	16134.6094	74.52	Q	.	.	.	V.
30.083	16135.1035	71.77	Q	.	.	.	V.
30.167	16135.5791	69.04	Q	.	.	.	V.
30.250	16136.0361	66.34	Q	.	.	.	V.
30.333	16136.4746	63.67	Q	.	.	.	V.
30.417	16136.8945	61.01	Q	.	.	.	V.
30.500	16137.2959	58.35	Q	.	.	.	V.
30.583	16137.6797	55.74	Q	.	.	.	V.
30.667	16138.0459	53.14	Q	.	.	.	V.
30.750	16138.3945	50.56	Q	.	.	.	V.
30.833	16138.7256	48.01	Q	.	.	.	V.
30.917	16139.0391	45.46	Q	.	.	.	V.
31.000	16139.3350	42.95	Q	.	.	.	V.
31.083	16139.6133	40.44	Q	.	.	.	V.
31.167	16139.8750	37.96	Q	.	.	.	V.
31.250	16140.1191	35.50	Q	.	.	.	V.
31.333	16140.3467	33.06	Q	.	.	.	V.
31.417	16140.5576	30.64	Q	.	.	.	V.
31.500	16140.7520	28.23	Q	.	.	.	V.
31.583	16140.9297	25.84	Q	.	.	.	V.
31.667	16141.0908	23.46	Q	.	.	.	V.
31.750	16141.2363	21.10	Q	.	.	.	V.
31.833	16141.3652	18.76	Q	.	.	.	V.
31.917	16141.4785	16.43	Q	.	.	.	V.
32.000	16141.5762	14.11	Q	.	.	.	V.
32.083	16141.6572	11.81	Q	.	.	.	V.
32.167	16141.7227	9.53	Q	.	.	.	V.
32.250	16141.7725	7.25	Q	.	.	.	V.
32.333	16141.8066	4.99	Q	.	.	.	V.
32.417	16141.8252	2.75	Q	.	.	.	V.
32.500	16141.8291	0.52	Q	.	.	.	V.

-----  
TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
(Note: 100% of Peak Flow Rate estimate assumed to have  
an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
=====	=====
0%	1950.0
10%	1435.0
20%	1170.0
30%	655.0
40%	505.0
50%	415.0
60%	355.0
70%	295.0
80%	230.0
90%	145.0
=====	=====

-----  
END OF FLOODSCx ROUTING ANALYSIS

\*\*\*\*\*

FLOOD ROUTING ANALYSIS
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)
(c) Copyright 1989-2013 Advanced Engineering Software (aes)
Ver. 20.0 Release Date: 06/01/2013 License ID 1264

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*
\* RANCHO MISSION VIEJJO - SINGLE AREA UH \*
\* ULTIMATE CONDITION - REGIONAL NODE 119 \*
\* 5-YR EV ROKAMOTO SEPTEMBER 2018 \*

FILE NAME: EV05119S.DAT
TIME/DATE OF STUDY: 12:46 09/27/2018

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 119.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<

=====

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 49495.699 ACRES
BASEFLOW = 0.000 CFS/SQUARE-MILE
\*USER ENTERED "LAG" TIME = 3.308 HOURS
VALLEY (DEVELOPED) S-GRAPH SELECTED
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.496
LOW LOSS FRACTION = 0.845
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.23
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.44
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 0.62
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 1.15
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 1.71
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 3.02

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:
5-MINUTE FACTOR = 0.345
30-MINUTE FACTOR = 0.395
1-HOUR FACTOR = 0.435
3-HOUR FACTOR = 0.785
6-HOUR FACTOR = 0.904
24-HOUR FACTOR = 0.944

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 2.519

UNIT HYDROGRAPH DETERMINATION

Table with 3 columns: INTERVAL NUMBER, "S" GRAPH MEAN VALUES, UNIT HYDROGRAPH ORDINATES (CFS). Rows 1-48.

49	67.261	10024.962
50	69.135	11220.614
51	70.855	10296.508
52	72.369	9060.257
53	73.992	9715.191
54	75.544	9289.422
55	76.797	7501.493
56	77.917	6702.062
57	79.037	6702.702
58	80.169	6781.572
59	81.351	7071.614
60	82.479	6756.043
61	83.540	6349.957
62	84.544	6007.670
63	85.504	5744.299
64	86.374	5210.615
65	87.149	4640.943
66	87.910	4551.570
67	88.535	3741.773
68	89.128	3548.000
69	89.721	3549.142
70	90.280	3350.757
71	90.811	3174.385
72	91.341	3174.385
73	91.869	3163.972
74	92.363	2956.271
75	92.843	2872.743
76	93.323	2872.743
77	93.802	2868.085
78	94.188	2311.201
79	94.509	1916.715
80	94.828	1914.386
81	95.148	1914.386
82	95.468	1914.386
83	95.788	1914.340
84	96.065	1659.143
85	96.264	1192.729
86	96.462	1183.458
87	96.660	1183.413
88	96.857	1181.129
89	97.054	1181.129
90	97.252	1185.742
91	97.450	1181.129
92	97.647	1181.084
93	97.845	1183.458
94	98.004	953.699
95	98.058	320.229
96	98.105	280.771
97	98.152	283.100
98	98.200	285.429
99	98.246	278.442
100	98.294	287.758
101	98.341	278.442
102	98.388	280.771
103	98.435	283.100
104	98.482	280.771
105	98.530	287.758
106	98.576	278.442

107	98.624	283.100
108	98.671	283.100
109	98.718	283.100
110	98.766	283.100
111	98.813	283.100
112	98.860	283.100
113	98.907	278.442
114	98.955	287.758
115	99.001	278.442
116	99.048	278.442
117	99.094	278.442
118	99.141	278.442
119	99.187	278.442
120	99.234	278.442
121	99.280	278.442
122	99.327	278.442
123	99.373	278.442
124	99.420	278.442
125	99.466	278.442
126	99.513	278.442
127	99.559	278.442
128	99.606	278.442
129	99.652	278.442
130	99.699	278.442
131	99.745	278.442
132	99.792	278.442
133	99.839	278.442
134	99.885	278.442
135	99.932	278.442
136	99.978	278.442
137	100.000	131.389

-----  
TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 9835.5820  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 1926.9926  
-----

=====

2 4 - 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 FIVE-MINUTE UNIT INTERVALS (CFS)

(Note: Time indicated is at END of Each Unit Intervals)

TIME (HRS)	VOLUME (AF)	Q (CFS)	0.	625.0	1250.0	1875.0	2500.0
0.083	0.0040	0.58	Q	.	.	.	.
0.167	0.0161	1.75	Q	.	.	.	.
0.250	0.0362	2.92	Q	.	.	.	.
0.333	0.0644	4.09	Q	.	.	.	.
0.417	0.1007	5.27	Q	.	.	.	.
0.500	0.1451	6.45	Q	.	.	.	.
0.583	0.1977	7.64	Q	.	.	.	.
0.667	0.2608	9.16	Q	.	.	.	.
0.750	0.3363	10.96	Q	.	.	.	.
0.833	0.4242	12.77	Q	.	.	.	.
0.917	0.5246	14.58	Q	.	.	.	.
1.000	0.6387	16.57	Q	.	.	.	.
1.083	0.7743	19.69	Q	.	.	.	.
1.167	0.9328	23.01	Q	.	.	.	.
1.250	1.1178	26.87	Q	.	.	.	.
1.333	1.3330	31.25	Q	.	.	.	.
1.417	1.5833	36.34	Q	.	.	.	.
1.500	1.8713	41.82	Q	.	.	.	.
1.583	2.1954	47.06	Q	.	.	.	.
1.667	2.5556	52.30	Q	.	.	.	.
1.750	2.9542	57.88	Q	.	.	.	.
1.833	3.4051	65.47	VQ	.	.	.	.
1.917	3.8975	71.49	VQ	.	.	.	.
2.000	4.4288	77.15	VQ	.	.	.	.
2.083	5.0003	82.98	VQ	.	.	.	.
2.167	5.6196	89.91	VQ	.	.	.	.
2.250	6.2938	97.90	VQ	.	.	.	.
2.333	7.0142	104.59	VQ	.	.	.	.
2.417	7.7768	110.74	VQ	.	.	.	.
2.500	8.5842	117.23	VQ	.	.	.	.
2.583	9.4471	125.29	V Q	.	.	.	.
2.667	10.3619	132.83	V Q	.	.	.	.
2.750	11.3425	142.39	V Q	.	.	.	.
2.833	12.3809	150.78	V Q	.	.	.	.
2.917	13.4620	156.97	V Q	.	.	.	.
3.000	14.6092	166.58	V Q	.	.	.	.
3.083	15.8245	176.45	V Q	.	.	.	.
3.167	17.1077	186.32	V Q	.	.	.	.
3.250	18.4591	196.23	V Q	.	.	.	.
3.333	19.8914	207.96	V Q	.	.	.	.
3.417	21.3877	217.26	V Q	.	.	.	.
3.500	22.9397	225.36	V Q	.	.	.	.
3.583	24.5452	233.11	V Q	.	.	.	.
3.667	26.2066	241.24	V Q	.	.	.	.
3.750	27.9322	250.56	V Q	.	.	.	.
3.833	29.7342	261.65	V Q	.	.	.	.
3.917	31.6048	271.61	V Q	.	.	.	.

4.000	33.5319	279.82	V Q	.	.	.	.
4.083	35.5119	287.50	V Q	.	.	.	.
4.167	37.5506	296.02	V Q	.	.	.	.
4.250	39.6439	303.94	V Q	.	.	.	.
4.333	41.7862	311.06	V Q	.	.	.	.
4.417	43.9807	318.65	V Q	.	.	.	.
4.500	46.2257	325.98	V Q	.	.	.	.
4.583	48.5131	332.12	.V Q	.	.	.	.
4.667	50.8392	337.76	.V Q	.	.	.	.
4.750	53.2043	343.41	.V Q	.	.	.	.
4.833	55.6089	349.15	.V Q	.	.	.	.
4.917	58.0545	355.10	.V Q	.	.	.	.
5.000	60.5398	360.87	.V Q	.	.	.	.
5.083	63.0631	366.38	.V Q	.	.	.	.
5.167	65.6229	371.69	.V Q	.	.	.	.
5.250	68.2183	376.84	.V Q	.	.	.	.
5.333	70.8468	381.66	.V Q	.	.	.	.
5.417	73.5060	386.12	.V Q	.	.	.	.
5.500	76.1957	390.54	.V Q	.	.	.	.
5.583	78.9121	394.42	.V Q	.	.	.	.
5.667	81.6546	398.21	.V Q	.	.	.	.
5.750	84.4232	402.01	.V Q	.	.	.	.
5.833	87.2173	405.70	.V Q	.	.	.	.
5.917	90.0361	409.29	.V Q	.	.	.	.
6.000	92.8799	412.91	.V Q	.	.	.	.
6.083	95.7485	416.53	.V Q	.	.	.	.
6.167	98.6413	420.04	. V Q	.	.	.	.
6.250	101.5581	423.51	. V Q	.	.	.	.
6.333	104.4989	427.01	. V Q	.	.	.	.
6.417	107.4639	430.52	. V Q	.	.	.	.
6.500	110.4506	433.68	. V Q	.	.	.	.
6.583	113.4574	436.59	. V Q	.	.	.	.
6.667	116.4844	439.52	. V Q	.	.	.	.
6.750	119.5318	442.47	. V Q	.	.	.	.
6.833	122.5996	445.45	. V Q	.	.	.	.
6.917	125.6881	448.44	. V Q	.	.	.	.
7.000	128.7962	451.30	. V Q	.	.	.	.
7.083	131.9218	453.84	. V Q	.	.	.	.
7.167	135.0652	456.42	. V Q	.	.	.	.
7.250	138.2263	459.00	. V Q	.	.	.	.
7.333	141.4055	461.62	. V Q	.	.	.	.
7.417	144.6029	464.25	. V Q	.	.	.	.
7.500	147.8185	466.92	. V Q	.	.	.	.
7.583	151.0526	469.59	. V Q	.	.	.	.
7.667	154.3054	472.30	. V Q	.	.	.	.
7.750	157.5769	475.03	. V Q	.	.	.	.
7.833	160.8664	477.63	. V Q	.	.	.	.
7.917	164.1710	479.83	. V Q	.	.	.	.
8.000	167.4907	482.03	. V Q	.	.	.	.
8.083	170.8257	484.24	. V Q	.	.	.	.
8.167	174.1762	486.49	. V Q	.	.	.	.
8.250	177.5423	488.76	. V Q	.	.	.	.
8.333	180.9243	491.06	. V Q	.	.	.	.
8.417	184.3222	493.38	. V Q	.	.	.	.
8.500	187.7364	495.73	. V Q	.	.	.	.
8.583	191.1668	498.11	. V Q	.	.	.	.
8.667	194.6139	500.52	. V Q	.	.	.	.
8.750	198.0778	502.95	. V Q	.	.	.	.

8.833	201.5586	505.42	.	V	Q	.	.	.
8.917	205.0566	507.91	.	V	Q	.	.	.
9.000	208.5720	510.44	.	V	Q	.	.	.
9.083	212.1050	512.99	.	V	Q	.	.	.
9.167	215.6558	515.58	.	V	Q	.	.	.
9.250	219.2247	518.20	.	V	Q	.	.	.
9.333	222.8119	520.86	.	V	Q	.	.	.
9.417	226.4176	523.54	.	V	Q	.	.	.
9.500	230.0421	526.28	.	V	Q	.	.	.
9.583	233.6855	529.03	.	V	Q	.	.	.
9.667	237.3483	531.83	.	V	Q	.	.	.
9.750	241.0305	534.66	.	V	Q	.	.	.
9.833	244.7325	537.53	.	V	Q	.	.	.
9.917	248.4545	540.44	.	V	Q	.	.	.
10.000	252.1969	543.39	.	V	Q	.	.	.
10.083	255.9598	546.38	.	V	Q	.	.	.
10.167	259.7437	549.42	.	V	Q	.	.	.
10.250	263.5487	552.49	.	V	Q	.	.	.
10.333	267.3753	555.62	.	V	Q	.	.	.
10.417	271.2237	558.78	.	V	Q	.	.	.
10.500	275.0942	562.01	.	V	Q	.	.	.
10.583	278.9872	565.26	.	V	Q	.	.	.
10.667	282.9031	568.58	.	V	Q	.	.	.
10.750	286.8420	571.94	.	V	Q	.	.	.
10.833	290.8046	575.36	.	V	Q	.	.	.
10.917	294.7910	578.82	.	V	Q	.	.	.
11.000	298.8017	582.36	.	V	Q	.	.	.
11.083	302.8370	585.93	.	V	Q	.	.	.
11.167	306.8975	589.58	.	V	Q	.	.	.
11.250	310.9834	593.27	.	V	Q	.	.	.
11.333	315.0952	597.04	.	V	Q	.	.	.
11.417	319.2327	600.76	.	V	Q	.	.	.
11.500	323.3957	604.47	.	V	Q	.	.	.
11.583	327.5846	608.23	.	V	Q	.	.	.
11.667	331.8001	612.08	.	V	Q	.	.	.
11.750	336.0424	615.98	.	V	Q	.	.	.
11.833	340.3122	619.98	.	V	Q	.	.	.
11.917	344.6100	624.03	.	V	Q	.	.	.
12.000	348.9363	628.18	.	V	Q	.	.	.
12.083	353.2982	633.35	.	V	Q	.	.	.
12.167	357.7031	639.59	.	V	Q	.	.	.
12.250	362.1514	645.89	.	V	Q	.	.	.
12.333	366.6437	652.29	.	V	Q	.	.	.
12.417	371.1806	658.75	.	V	Q	.	.	.
12.500	375.7626	665.32	.	V	Q	.	.	.
12.583	380.3904	671.95	.	V	Q	.	.	.
12.667	385.0685	679.26	.	V	Q	.	.	.
12.750	389.8004	687.08	.	V	Q	.	.	.
12.833	394.5871	695.03	.	V	Q	.	.	.
12.917	399.4290	703.05	.	V	Q	.	.	.
13.000	404.3291	711.48	.	V	Q	.	.	.
13.083	409.3005	721.85	.	V	Q	.	.	.
13.167	414.3463	732.66	.	V	Q	.	.	.
13.250	419.4732	744.41	.	V	Q	.	.	.
13.333	424.6877	757.15	.	V	Q	.	.	.
13.417	429.9984	771.11	.	V	Q	.	.	.
13.500	435.4104	785.82	.	V	Q	.	.	.
13.583	440.9213	800.19	.	V	Q	.	.	.

13.667	446.5320	814.66	.	V.	Q	.	.	.
13.750	452.2464	829.74	.	V.	Q	.	.	.
13.833	458.0885	848.27	.	V.	Q	.	.	.
13.917	464.0406	864.25	.	V.	Q	.	.	.
14.000	470.0995	879.74	.	V.	Q	.	.	.
14.083	476.2750	896.69	.	V.	Q	.	.	.
14.167	482.5880	916.65	.	V	Q	.	.	.
14.250	489.0505	938.35	.	V	Q	.	.	.
14.333	495.6478	957.93	.	V	Q	.	.	.
14.417	502.3737	976.60	.	V	Q	.	.	.
14.500	509.2326	995.91	.	V	Q	.	.	.
14.583	516.2423	1017.81	.	V	Q	.	.	.
14.667	523.4015	1039.51	.	V	Q	.	.	.
14.750	530.7366	1065.06	.	.V	Q	.	.	.
14.833	538.2342	1088.66	.	.V	Q	.	.	.
14.917	545.8688	1108.55	.	.V	Q	.	.	.
15.000	553.6820	1134.47	.	.V	Q	.	.	.
15.083	561.6906	1162.84	.	.V	Q	.	.	.
15.167	569.8965	1191.50	.	.V	Q	.	.	.
15.250	578.3054	1220.97	.	.V	Q	.	.	.
15.333	586.9440	1254.32	.	.V	Q	.	.	.
15.417	595.7816	1283.21	.	.V	Q	.	.	.
15.500	604.7986	1309.28	.	.V	Q	.	.	.
15.583	613.9875	1334.23	.	.V	Q	.	.	.
15.667	623.3532	1359.89	.	.V	Q	.	.	.
15.750	632.9094	1387.55	.	.V	Q	.	.	.
15.833	642.6994	1421.51	.	.V	Q	.	.	.
15.917	652.6937	1451.17	.	.V	Q	.	.	.
16.000	662.8716	1477.83	.	.V	Q	.	.	.
16.083	673.4265	1532.57	.	.V	Q	.	.	.
16.167	684.3708	1589.12	.	.V	Q	.	.	.
16.250	695.5027	1616.35	.	.V	Q	.	.	.
16.333	706.7863	1638.38	.	.V	Q	.	.	.
16.417	718.2047	1657.96	.	.V	Q	.	.	.
16.500	729.7687	1679.10	.	.V	Q	.	.	.
16.583	741.4846	1701.14	.	.V	Q	.	.	.
16.667	753.4464	1736.85	.	.V	Q	.	.	.
16.750	765.6373	1770.13	.	.V	Q	.	.	.
16.833	777.9440	1786.93	.	.V	Q	.	.	.
16.917	790.3539	1801.91	.	.V	Q	.	.	.
17.000	802.9882	1834.50	.	.V	Q	.	.	.
17.083	816.1560	1911.97	.	.V	Q	.	.	.
17.167	829.4908	1936.22	.	.V	Q	.	.	.
17.250	843.1384	1981.63	.	.V	Q	.	.	.
17.333	857.1237	2030.66	.	.V	Q	.	.	.
17.417	871.4710	2083.24	.	.V	Q	.	.	.
17.500	886.0105	2111.13	.	.V	Q	.	.	.
17.583	900.5180	2106.49	.	.V	Q	.	.	.
17.667	915.1242	2120.82	.	.V	Q	.	.	.
17.750	929.9841	2157.65	.	.V	Q	.	.	.
17.833	945.6509	2274.83	.	.V	Q	.	.	.
17.917	960.8250	2203.28	.	.V	Q	.	.	.
18.000	975.9404	2194.75	.	.V	Q	.	.	.
18.083	991.1492	2208.33	.	.V	Q	.	.	.
18.167	1006.8131	2274.39	.	.V	Q	.	.	.
18.250	1022.8733	2331.94	.	.V	Q	.	.	.
18.333	1038.4314	2259.03	.	.V	Q	.	.	.
18.417	1053.7609	2225.84	.	.V	Q	.	.	.

18.500	1069.1960	2241.20	.	.	.	V	.	Q	.
18.583	1085.1765	2320.36	.	.	.	V	.	Q	.
18.667	1100.8937	2282.13	.	.	.	V	.	Q	.
18.750	1117.2234	2371.07	.	.	.	V	.	Q	.
18.833	1133.0438	2297.13	.	.	.	V	.	Q	.
18.917	1148.1238	2189.61	.	.	.	V	.	Q	.
19.000	1164.3645	2358.15	.	.	.	V	.	Q	.
19.083	1180.6470	2364.22	.	.	.	V	.	Q	.
19.167	1196.8326	2350.17	.	.	.	V	.	Q	.
19.250	1212.8871	2331.11	.	.	.	V	.	Q	.
19.333	1229.4636	2406.92	.	.	.	V	.	Q	.
19.417	1245.0747	2266.72	.	.	.	V	.	Q	.
19.500	1260.1451	2188.23	.	.	.	V	.	Q	.
19.583	1274.9904	2155.53	.	.	.	V	.	Q	.
19.667	1289.9534	2172.64	.	.	.	V	.	Q	.
19.750	1305.2424	2219.96	.	.	.	V	.	Q	.
19.833	1320.9630	2282.63	.	.	.	V	.	Q	.
19.917	1336.1392	2203.57	.	.	.	V	.	Q	.
20.000	1350.5498	2092.43	.	.	.	V	.	Q	.
20.083	1364.6429	2046.33	.	.	.	V	.	Q	.
20.167	1378.8878	2068.35	.	.	.	V	.	Q	.
20.250	1392.7570	2013.80	.	.	.	V	.	Q	.
20.333	1406.1598	1946.08	.	.	.	V	.	Q	.
20.417	1419.5544	1944.91	.	.	.	V	.	Q	.
20.500	1432.6908	1907.41	.	.	.	V	.	Q	.
20.583	1445.2345	1821.34	.	.	.	V	.	Q	.
20.667	1457.4260	1770.21	.	.	.	V	.	Q	.
20.750	1469.4344	1743.62	.	.	.	V	.	Q	.
20.833	1481.2666	1718.03	.	.	.	V	.	Q	.
20.917	1492.9932	1702.70	.	.	.	V	.	Q	.
21.000	1504.4401	1662.09	.	.	.	V	.	Q	.
21.083	1515.5833	1618.00	.	.	.	V	.	Q	.
21.167	1526.4255	1574.30	.	.	.	V	.	Q	.
21.250	1536.9951	1534.70	.	.	.	V	.	Q	.
21.333	1547.2141	1483.79	.	.	.	V	.	Q	.
21.417	1557.0922	1434.29	.	.	.	V	.	Q	.
21.500	1566.7550	1403.05	.	.	.	V	.	Q	.
21.583	1576.0564	1350.57	.	.	.	V	.	Q	.
21.667	1585.1439	1319.52	.	.	.	V	.	Q	.
21.750	1594.0428	1292.12	.	.	.	V	.	Q	.
21.833	1602.6915	1255.78	.	.	.	V	.	Q	.
21.917	1611.0979	1220.61	.	.	.	V	.	Q	.
22.000	1619.3219	1194.13	.	.	.	V	.	Q	.
22.083	1627.3682	1168.31	.	.	.	V	.	Q	.
22.167	1635.1844	1134.92	.	.	.	V	.	Q	.
22.250	1642.8094	1107.14	.	.	.	V	.	Q	.
22.333	1650.2764	1084.19	.	.	.	V	.	Q	.
22.417	1657.5834	1060.98	.	.	.	V	.	Q	.
22.500	1664.6035	1019.33	.	.	.	V	.	Q	.
22.583	1671.4004	986.91	.	.	.	V	.	Q	.
22.667	1678.0778	969.55	.	.	.	V	.	Q	.
22.750	1684.6396	952.79	.	.	.	V	.	Q	.
22.833	1691.0812	935.31	.	.	.	V	.	Q	.
22.917	1697.3934	916.54	.	.	.	V	.	Q	.
23.000	1703.5176	889.23	.	.	.	V	.	Q	.
23.083	1709.4122	855.90	.	.	.	V	.	Q	.
23.167	1715.1951	839.67	.	.	.	V	.	Q	.
23.250	1720.8799	825.43	.	.	.	V	.	Q	.

23.333	1726.4691	811.56	.	.	.	Q	.	V	.
23.417	1731.9613	797.47	.	.	.	Q	.	V	.
23.500	1737.3624	784.25	.	.	.	Q	.	V	.
23.583	1742.6824	772.45	.	.	.	Q	.	V	.
23.667	1747.9219	760.78	.	.	.	Q	.	V	.
23.750	1753.0767	748.48	.	.	.	Q	.	V	.
23.833	1758.0908	728.05	.	.	.	Q	.	V	.
23.917	1762.8765	694.88	.	.	.	Q	.	V	.
24.000	1767.5798	682.93	.	.	.	Q	.	V	.
24.083	1772.2126	672.69	.	.	.	Q	.	V	.
24.167	1776.7729	662.16	.	.	.	Q	.	V	.
24.250	1781.2537	650.59	.	.	.	Q	.	V	.
24.333	1785.6586	639.59	.	.	.	Q	.	V	.
24.417	1789.9838	628.03	.	.	.	Q	.	V	.
24.500	1794.2371	617.57	.	.	.	Q	.	V	.
24.583	1798.4219	607.63	.	.	.	Q	.	V	.
24.667	1802.5354	597.29	.	.	.	Q	.	V	.
24.750	1806.5784	587.05	.	.	.	Q	.	V	.
24.833	1810.5496	576.62	.	.	.	Q	.	V	.
24.917	1814.4587	567.61	.	.	.	Q	.	V	.
25.000	1818.3068	558.73	.	.	.	Q	.	V	.
25.083	1822.0907	549.42	.	.	.	Q	.	V	.
25.167	1825.8099	540.04	.	.	.	Q	.	V	.
25.250	1829.4622	530.30	.	.	.	Q	.	V	.
25.333	1833.0446	520.16	.	.	.	Q	.	V	.
25.417	1836.5510	509.13	.	.	.	Q	.	V	.
25.500	1839.9818	498.15	.	.	.	Q	.	V	.
25.583	1843.3352	486.92	.	.	.	Q	.	V	.
25.667	1846.6146	476.17	.	.	.	Q	.	V	.
25.750	1849.8185	465.21	.	.	.	Q	.	V	.
25.833	1852.9359	452.66	.	.	.	Q	.	V	.
25.917	1855.9835	442.51	.	.	.	Q	.	V	.
26.000	1858.9651	432.93	.	.	.	Q	.	V	.
26.083	1861.8804	423.30	.	.	.	Q	.	V	.
26.167	1864.7227	412.70	.	.	.	Q	.	V	.
26.250	1867.4857	401.20	.	.	.	Q	.	V	.
26.333	1870.1794	391.12	.	.	.	Q	.	V	.
26.417	1872.8085	381.74	.	.	.	Q	.	V	.
26.500	1875.3713	372.12	.	.	.	Q	.	V	.
26.583	1877.8580	361.07	.	.	.	Q	.	V	.
26.667	1880.2732	350.69	.	.	.	Q	.	V	.
26.750	1882.6055	338.64	.	.	.	Q	.	V	.
26.833	1884.8652	328.12	.	.	.	Q	.	V	.
26.917	1887.0682	319.88	.	.	.	Q	.	V	.
27.000	1889.1913	308.27	.	.	.	Q	.	V	.
27.083	1891.2338	296.58	.	.	.	Q	.	V	.
27.167	1893.1968	285.03	.	.	.	Q	.	V	.
27.250	1895.0798	273.41	.	.	.	Q	.	V	.
27.333	1896.8691	259.80	.	.	.	Q	.	V	.
27.417	1898.5476	243.72	.	.	.	Q	.	V	.
27.500	1900.1296	229.72	.	.	.	Q	.	V	.
27.583	1901.6500	220.76	.	.	.	Q	.	V	.
27.667	1903.1071	211.57	.	.	.	Q	.	V	.
27.750	1904.4921	201.11	.	.	.	Q	.	V	.
27.833	1905.7922	188.78	.	.	.	Q	.	V	.
27.917	1907.0159	177.68	.	.	.	Q	.	V	.
28.000	1908.1757	168.41	.	.	.	Q	.	V	.
28.083	1909.2758	159.74	.	.	.	Q	.	V	.

28.167	1910.3109	150.31	. Q	.	.	.	V.
28.250	1911.2858	141.54	. Q	.	.	.	V.
28.333	1912.2063	133.66	. Q	.	.	.	V.
28.417	1913.0710	125.56	. Q	.	.	.	V.
28.500	1913.8835	117.97	.Q	.	.	.	V.
28.583	1914.6525	111.65	.Q	.	.	.	V.
28.667	1915.3820	105.93	.Q	.	.	.	V.
28.750	1916.0724	100.25	.Q	.	.	.	V.
28.833	1916.7236	94.56	.Q	.	.	.	V.
28.917	1917.3347	88.73	.Q	.	.	.	V.
29.000	1917.9073	83.15	.Q	.	.	.	V.
29.083	1918.4437	77.89	.Q	.	.	.	V.
29.167	1918.9458	72.90	.Q	.	.	.	V.
29.250	1919.4149	68.12	.Q	.	.	.	V.
29.333	1919.8539	63.74	.Q	.	.	.	V.
29.417	1920.2667	59.94	Q	.	.	.	V.
29.500	1920.6550	56.38	Q	.	.	.	V.
29.583	1921.0228	53.40	Q	.	.	.	V.
29.667	1921.3711	50.58	Q	.	.	.	V.
29.750	1921.7001	47.77	Q	.	.	.	V.
29.833	1922.0109	45.13	Q	.	.	.	V.
29.917	1922.3044	42.63	Q	.	.	.	V.
30.000	1922.5809	40.15	Q	.	.	.	V.
30.083	1922.8406	37.70	Q	.	.	.	V.
30.167	1923.0844	35.40	Q	.	.	.	V.
30.250	1923.3129	33.19	Q	.	.	.	V.
30.333	1923.5262	30.99	Q	.	.	.	V.
30.417	1923.7246	28.81	Q	.	.	.	V.
30.500	1923.9106	27.02	Q	.	.	.	V.
30.583	1924.0863	25.51	Q	.	.	.	V.
30.667	1924.2517	24.02	Q	.	.	.	V.
30.750	1924.4070	22.54	Q	.	.	.	V.
30.833	1924.5521	21.08	Q	.	.	.	V.
30.917	1924.6873	19.62	Q	.	.	.	V.
31.000	1924.8136	18.35	Q	.	.	.	V.
31.083	1924.9335	17.40	Q	.	.	.	V.
31.167	1925.0469	16.46	Q	.	.	.	V.
31.250	1925.1539	15.54	Q	.	.	.	V.
31.333	1925.2546	14.62	Q	.	.	.	V.
31.417	1925.3491	13.71	Q	.	.	.	V.
31.500	1925.4373	12.81	Q	.	.	.	V.
31.583	1925.5193	11.91	Q	.	.	.	V.
31.667	1925.5952	11.02	Q	.	.	.	V.
31.750	1925.6650	10.14	Q	.	.	.	V.
31.833	1925.7299	9.41	Q	.	.	.	V.
31.917	1925.7927	9.13	Q	.	.	.	V.
32.000	1925.8538	8.87	Q	.	.	.	V.
32.083	1925.9131	8.61	Q	.	.	.	V.
32.167	1925.9706	8.35	Q	.	.	.	V.
32.250	1926.0264	8.10	Q	.	.	.	V.
32.333	1926.0804	7.84	Q	.	.	.	V.
32.417	1926.1328	7.60	Q	.	.	.	V.
32.500	1926.1835	7.35	Q	.	.	.	V.
32.583	1926.2324	7.11	Q	.	.	.	V.
32.667	1926.2798	6.87	Q	.	.	.	V.
32.750	1926.3254	6.63	Q	.	.	.	V.
32.833	1926.3695	6.39	Q	.	.	.	V.
32.917	1926.4119	6.15	Q	.	.	.	V.

33.000	1926.4526	5.92	Q	.	.	.	V.
33.083	1926.4918	5.69	Q	.	.	.	V.
33.167	1926.5294	5.46	Q	.	.	.	V.
33.250	1926.5654	5.23	Q	.	.	.	V.
33.333	1926.5999	5.00	Q	.	.	.	V.
33.417	1926.6328	4.78	Q	.	.	.	V.
33.500	1926.6642	4.56	Q	.	.	.	V.
33.583	1926.6941	4.34	Q	.	.	.	V.
33.667	1926.7224	4.12	Q	.	.	.	V.
33.750	1926.7493	3.91	Q	.	.	.	V.
33.833	1926.7747	3.69	Q	.	.	.	V.
33.917	1926.7986	3.48	Q	.	.	.	V.
34.000	1926.8212	3.27	Q	.	.	.	V.
34.083	1926.8423	3.06	Q	.	.	.	V.
34.167	1926.8619	2.85	Q	.	.	.	V.
34.250	1926.8801	2.65	Q	.	.	.	V.
34.333	1926.8970	2.44	Q	.	.	.	V.
34.417	1926.9124	2.24	Q	.	.	.	V.
34.500	1926.9264	2.04	Q	.	.	.	V.
34.583	1926.9391	1.84	Q	.	.	.	V.
34.667	1926.9503	1.64	Q	.	.	.	V.
34.750	1926.9602	1.44	Q	.	.	.	V.
34.833	1926.9688	1.24	Q	.	.	.	V.
34.917	1926.9760	1.05	Q	.	.	.	V.
35.000	1926.9818	0.85	Q	.	.	.	V.
35.083	1926.9863	0.66	Q	.	.	.	V.
35.167	1926.9895	0.47	Q	.	.	.	V.
35.250	1926.9915	0.28	Q	.	.	.	V.
35.333	1926.9921	0.09	Q	.	.	.	V.

-----  
 TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
 (Note: 100% of Peak Flow Rate estimate assumed to have  
 an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
0%	2120.0
10%	1430.0
20%	1060.0
30%	645.0
40%	500.0
50%	405.0
60%	330.0
70%	265.0
80%	200.0
90%	125.0

-----

END OF FLOODSCx ROUTING ANALYSIS

\*\*\*\*\*

FLOOD ROUTING ANALYSIS  
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)  
(c) Copyright 1989-2013 Advanced Engineering Software (aes)  
Ver. 20.0 Release Date: 06/01/2013 License ID 1237

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*  
\* RMV PA-3 BODR 2022 - NODE 126 \*  
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*  
\* 5-YR EV JULY 2022 ROKAMOTO \*  
\*\*\*\*\*

FILE NAME: EV05126S.DAT  
TIME/DATE OF STUDY: 11:49 07/25/2022

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 126.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<

=====

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 50438.699 ACRES  
BASEFLOW = 0.000 CFS/SQUARE-MILE  
\*USER ENTERED "LAG" TIME = 3.426 HOURS  
VALLEY (DEVELOPED) S-GRAPH SELECTED  
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.495  
LOW LOSS FRACTION = 0.845  
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.23  
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.44  
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 0.62  
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 1.15  
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 1.71  
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 3.01

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:  
5-MINUTE FACTOR = 0.341  
30-MINUTE FACTOR = 0.392  
1-HOUR FACTOR = 0.432  
3-HOUR FACTOR = 0.782  
6-HOUR FACTOR = 0.902  
24-HOUR FACTOR = 0.943

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES  
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 2.432

UNIT HYDROGRAPH DETERMINATION

INTERVAL NUMBER	"S" GRAPH MEAN VALUES	UNIT HYDROGRAPH ORDINATES (CFS)
1	0.139	847.846
2	0.417	1695.702
3	0.695	1695.691
4	0.973	1695.703
5	1.251	1695.695
6	1.529	1695.693
7	1.807	1695.693
8	2.132	1982.655
9	2.552	2563.653
10	2.975	2580.414
11	3.398	2580.412
12	3.822	2586.909
13	4.450	3825.707
14	5.228	4747.965
15	6.038	4941.429
16	7.032	6065.855
17	8.099	6504.082
18	9.369	7748.416
19	10.625	7659.312
20	11.841	7418.677
21	13.057	7418.677
22	14.465	8587.132
23	16.225	10740.516
24	17.553	8095.257
25	18.850	7913.268
26	20.208	8285.356
27	21.829	9886.500
28	23.678	11279.289
29	25.184	9190.129
30	26.574	8478.539
31	28.027	8859.959
32	29.864	11204.152
33	31.553	10307.036
34	33.698	13079.479
35	35.691	12159.582
36	37.120	8715.479
37	38.981	11352.763
38	41.344	14412.524
39	43.545	13426.484
40	45.722	13278.933
41	48.220	15240.589
42	50.679	14997.843
43	52.455	10837.555
44	54.195	10614.099
45	55.852	10107.129
46	57.753	11594.299
47	59.932	13289.031
48	62.426	15213.969



49	64.405	12074.951
50	66.090	10279.159
51	67.708	9869.571
52	69.578	11406.980
53	71.137	9507.081
54	72.621	9053.468
55	74.187	9554.271
56	75.672	9058.308
57	76.857	7227.100
58	77.938	6594.638
59	79.020	6595.196
60	80.112	6661.375
61	81.251	6950.334
62	82.353	6720.106
63	83.378	6254.858
64	84.364	6011.135
65	85.291	5654.787
66	86.169	5359.685
67	86.924	4602.964
68	87.672	4563.732
69	88.322	3963.754
70	88.894	3491.106
71	89.466	3489.850
72	90.029	3432.328
73	90.547	3159.238
74	91.059	3122.519
75	91.571	3123.729
76	92.072	3060.064
77	92.538	2842.077
78	93.001	2824.950
79	93.465	2826.207
80	93.919	2769.848
81	94.261	2086.566
82	94.570	1883.285
83	94.879	1885.751
84	95.188	1883.285
85	95.496	1883.331
86	95.805	1883.285
87	96.070	1613.918
88	96.261	1168.170
89	96.452	1163.283
90	96.643	1165.750
91	96.833	1160.863
92	97.024	1165.703
93	97.215	1163.283
94	97.406	1163.283
95	97.597	1165.750
96	97.787	1160.863
97	97.967	1099.618
98	98.040	443.235
99	98.086	279.186
100	98.132	279.233
101	98.177	279.186
102	98.223	276.720
103	98.268	276.720
104	98.314	279.233
105	98.359	276.720
106	98.405	281.653

107	98.450	274.253
108	98.496	279.233
109	98.542	279.186
110	98.587	276.720
111	98.633	279.186
112	98.679	281.653
113	98.723	269.366
114	98.770	284.119
115	98.816	279.186
116	98.862	279.186
117	98.906	274.300
118	98.952	279.186
119	98.998	279.186
120	99.043	274.300
121	99.088	274.300
122	99.133	274.300
123	99.178	274.300
124	99.223	274.300
125	99.268	274.300
126	99.313	274.300
127	99.358	274.300
128	99.403	274.300
129	99.448	274.300
130	99.493	274.300
131	99.538	274.300
132	99.583	274.300
133	99.628	274.300
134	99.673	274.300
135	99.718	274.300
136	99.762	274.300
137	99.807	274.300
138	99.852	274.300
139	99.897	274.300
140	99.942	274.300
141	99.987	274.300
142	100.000	77.394

-----  
TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 9961.1855  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 1948.1454  
-----

24 - HOUR STORM  
RUNOFF HYDROGRAPH

HYDROGRAPH IN FIVE-MINUTE UNIT INTERVALS (CFS)

(Note: Time indicated is at END of Each Unit Interval)

TIME (HRS)	VOLUME (AF)	Q (CFS)	0.	600.0	1200.0	1800.0	2400.0
0.083	0.0039	0.57	Q	.	.	.	.
0.167	0.0157	1.71	Q	.	.	.	.
0.250	0.0353	2.85	Q	.	.	.	.
0.333	0.0629	4.00	Q	.	.	.	.
0.417	0.0984	5.15	Q	.	.	.	.
0.500	0.1418	6.30	Q	.	.	.	.
0.583	0.1932	7.46	Q	.	.	.	.
0.667	0.2539	8.82	Q	.	.	.	.
0.750	0.3266	10.56	Q	.	.	.	.
0.833	0.4115	12.33	Q	.	.	.	.
0.917	0.5086	14.10	Q	.	.	.	.
1.000	0.6179	15.88	Q	.	.	.	.
1.083	0.7453	18.49	Q	.	.	.	.
1.167	0.8950	21.74	Q	.	.	.	.
1.250	1.0680	25.12	Q	.	.	.	.
1.333	1.2696	29.27	Q	.	.	.	.
1.417	1.5018	33.72	Q	.	.	.	.
1.500	1.7706	39.03	Q	.	.	.	.
1.583	2.0756	44.29	Q	.	.	.	.
1.667	2.4159	49.40	Q	.	.	.	.
1.750	2.7914	54.53	Q	.	.	.	.
1.833	3.2079	60.47	VQ	.	.	.	.
1.917	3.6753	67.86	VQ	.	.	.	.
2.000	4.1815	73.50	VQ	.	.	.	.
2.083	4.7258	79.04	VQ	.	.	.	.
2.167	5.3102	84.85	VQ	.	.	.	.
2.250	5.9420	91.75	VQ	.	.	.	.
2.333	6.6280	99.60	VQ	.	.	.	.
2.417	7.3585	106.08	VQ	.	.	.	.
2.500	8.1305	112.10	VQ	.	.	.	.
2.583	8.9459	118.39	VQ	.	.	.	.
2.667	9.8156	126.28	V Q	.	.	.	.
2.750	10.7357	133.60	V Q	.	.	.	.
2.833	11.7192	142.80	V Q	.	.	.	.
2.917	12.7619	151.40	V Q	.	.	.	.
3.000	13.8482	157.73	V Q	.	.	.	.
3.083	14.9904	165.85	V Q	.	.	.	.
3.167	16.2028	176.05	V Q	.	.	.	.
3.250	17.4811	185.61	V Q	.	.	.	.
3.333	18.8249	195.12	V Q	.	.	.	.
3.417	20.2434	205.97	V Q	.	.	.	.
3.500	21.7358	216.69	V Q	.	.	.	.
3.583	23.2830	224.65	V Q	.	.	.	.
3.667	24.8842	232.50	V Q	.	.	.	.
3.750	26.5372	240.02	V Q	.	.	.	.
3.833	28.2492	248.58	V Q	.	.	.	.
3.917	30.0282	258.30	V Q	.	.	.	.

4.000	31.8832	269.35	V Q	.	.	.	.
4.083	33.8000	278.32	V Q	.	.	.	.
4.167	35.7706	286.13	V Q	.	.	.	.
4.250	37.7932	293.68	V Q	.	.	.	.
4.333	39.8752	302.30	V Q	.	.	.	.
4.417	42.0079	309.67	V Q	.	.	.	.
4.500	44.1895	316.77	V Q	.	.	.	.
4.583	46.4225	324.23	V Q	.	.	.	.
4.667	48.7048	331.39	.V Q	.	.	.	.
4.750	51.0280	337.33	.V Q	.	.	.	.
4.833	53.3895	342.89	.V Q	.	.	.	.
4.917	55.7894	348.46	.V Q	.	.	.	.
5.000	58.2282	354.11	.V Q	.	.	.	.
5.083	60.7074	359.97	.V Q	.	.	.	.
5.167	63.2260	365.71	.V Q	.	.	.	.
5.250	65.7822	371.15	.V Q	.	.	.	.
5.333	68.3749	376.46	.V Q	.	.	.	.
5.417	71.0027	381.55	.V Q	.	.	.	.
5.500	73.6644	386.47	.V Q	.	.	.	.
5.583	76.3565	390.90	.V Q	.	.	.	.
5.667	79.0792	395.34	.V Q	.	.	.	.
5.750	81.8298	399.38	.V Q	.	.	.	.
5.833	84.6062	403.14	.V Q	.	.	.	.
5.917	87.4086	406.90	.V Q	.	.	.	.
6.000	90.2368	410.67	.V Q	.	.	.	.
6.083	93.0898	414.25	.V Q	.	.	.	.
6.167	95.9676	417.85	.V Q	.	.	.	.
6.250	98.8702	421.46	. V Q	.	.	.	.
6.333	101.7975	425.05	. V Q	.	.	.	.
6.417	104.7487	428.51	. V Q	.	.	.	.
6.500	107.7239	432.00	. V Q	.	.	.	.
6.583	110.7231	435.49	. V Q	.	.	.	.
6.667	113.7464	438.98	. V Q	.	.	.	.
6.750	116.7907	442.02	. V Q	.	.	.	.
6.833	119.8551	444.96	. V Q	.	.	.	.
6.917	122.9399	447.91	. V Q	.	.	.	.
7.000	126.0453	450.90	. V Q	.	.	.	.
7.083	129.1712	453.89	. V Q	.	.	.	.
7.167	132.3181	456.92	. V Q	.	.	.	.
7.250	135.4846	459.78	. V Q	.	.	.	.
7.333	138.6689	462.37	. V Q	.	.	.	.
7.417	141.8712	464.97	. V Q	.	.	.	.
7.500	145.0917	467.61	. V Q	.	.	.	.
7.583	148.3304	470.26	. V Q	.	.	.	.
7.667	151.5875	472.94	. V Q	.	.	.	.
7.750	154.8633	475.64	. V Q	.	.	.	.
7.833	158.1578	478.37	. V Q	.	.	.	.
7.917	161.4713	481.11	. V Q	.	.	.	.
8.000	164.8039	483.90	. V Q	.	.	.	.
8.083	168.1555	486.65	. V Q	.	.	.	.
8.167	171.5232	489.00	. V Q	.	.	.	.
8.250	174.9065	491.25	. V Q	.	.	.	.
8.333	178.3056	493.55	. V Q	.	.	.	.
8.417	181.7206	495.85	. V Q	.	.	.	.
8.500	185.1517	498.20	. V Q	.	.	.	.
8.583	188.5990	500.55	. V Q	.	.	.	.
8.667	192.0629	502.96	. V Q	.	.	.	.
8.750	195.5434	505.37	. V Q	.	.	.	.

8.833	199.0408	507.83	.	V	Q	.	.	.
8.917	202.5553	510.30	.	V	Q	.	.	.
9.000	206.0872	512.82	.	V	Q	.	.	.
9.083	209.6364	515.36	.	V	Q	.	.	.
9.167	213.2035	517.94	.	V	Q	.	.	.
9.250	216.7885	520.54	.	V	Q	.	.	.
9.333	220.3917	523.19	.	V	Q	.	.	.
9.417	224.0132	525.85	.	V	Q	.	.	.
9.500	227.6535	528.57	.	V	Q	.	.	.
9.583	231.3126	531.30	.	V	Q	.	.	.
9.667	234.9909	534.09	.	V	Q	.	.	.
9.750	238.6885	536.90	.	V	Q	.	.	.
9.833	242.4059	539.76	.	V	Q	.	.	.
9.917	246.1431	542.65	.	V	Q	.	.	.
10.000	249.9006	545.58	.	V	Q	.	.	.
10.083	253.6784	548.55	.	V	Q	.	.	.
10.167	257.4771	551.57	.	V	Q	.	.	.
10.250	261.2968	554.62	.	V	Q	.	.	.
10.333	265.1379	557.73	.	V	Q	.	.	.
10.417	269.0006	560.86	.	V	Q	.	.	.
10.500	272.8853	564.06	.	V	Q	.	.	.
10.583	276.7923	567.29	.	V	Q	.	.	.
10.667	280.7220	570.59	.	V	Q	.	.	.
10.750	284.6746	573.92	.	V	Q	.	.	.
10.833	288.6506	577.32	.	V	Q	.	.	.
10.917	292.6503	580.75	.	V	Q	.	.	.
11.000	296.6741	584.26	.	V	Q	.	.	.
11.083	300.7223	587.80	.	V	Q	.	.	.
11.167	304.7954	591.42	.	V	Q	.	.	.
11.250	308.8937	595.08	.	V	Q	.	.	.
11.333	313.0178	598.82	.	V	Q	.	.	.
11.417	317.1679	602.60	.	V	Q	.	.	.
11.500	321.3447	606.47	.	V	Q	.	.	.
11.583	325.5484	610.38	.	V	Q	.	.	.
11.667	329.7797	614.38	.	V	Q	.	.	.
11.750	334.0388	618.43	.	V	Q	.	.	.
11.833	338.3256	622.45	.	V	Q	.	.	.
11.917	342.6401	626.46	.	V	Q	.	.	.
12.000	346.9829	630.57	.	V	Q	.	.	.
12.083	351.3609	635.69	.	V	Q	.	.	.
12.167	355.7814	641.86	.	V	Q	.	.	.
12.250	360.2448	648.08	.	V	Q	.	.	.
12.333	364.7517	654.40	.	V	Q	.	.	.
12.417	369.3025	660.78	.	V	.Q	.	.	.
12.500	373.8980	667.27	.	V	.Q	.	.	.
12.583	378.5387	673.82	.	V	.Q	.	.	.
12.667	383.2274	680.81	.	V	.Q	.	.	.
12.750	387.9692	688.51	.	V	.Q	.	.	.
12.833	392.7650	696.35	.	V	.Q	.	.	.
12.917	397.6153	704.26	.	V	.Q	.	.	.
13.000	402.5210	712.30	.	V	.Q	.	.	.
13.083	407.4921	721.80	.	V	.Q	.	.	.
13.167	412.5366	732.47	.	V	.Q	.	.	.
13.250	417.6565	743.41	.	V	.Q	.	.	.
13.333	422.8614	755.75	.	V	.Q	.	.	.
13.417	428.1551	768.64	.	V	.Q	.	.	.
13.500	433.5481	783.07	.	V	.Q	.	.	.
13.583	439.0402	797.45	.	V	.Q	.	.	.

13.667	444.6305	811.71	.	V.	Q	.	.	.
13.750	450.3195	826.04	.	V.	Q	.	.	.
13.833	456.1172	841.83	.	V.	Q	.	.	.
13.917	462.0408	860.10	.	V.	Q	.	.	.
14.000	468.0709	875.57	.	V.	Q	.	.	.
14.083	474.2141	891.98	.	V.	Q	.	.	.
14.167	480.4815	910.03	.	V.	Q	.	.	.
14.250	486.8857	929.88	.	V.	Q	.	.	.
14.333	493.4379	951.38	.	V	Q	.	.	.
14.417	500.1220	970.54	.	V	Q	.	.	.
14.500	506.9334	989.01	.	V	Q	.	.	.
14.583	513.8750	1007.92	.	V	Q	.	.	.
14.667	520.9682	1029.93	.	V	Q	.	.	.
14.750	528.2111	1051.67	.	V	Q	.	.	.
14.833	535.6256	1076.60	.	V	Q	.	.	.
14.917	543.2045	1100.46	.	.V	Q	.	.	.
15.000	550.9218	1120.54	.	.V	Q	.	.	.
15.083	558.8082	1145.11	.	.V	Q.	.	.	.
15.167	566.8956	1174.30	.	.V	Q.	.	.	.
15.250	575.1771	1202.47	.	.V	Q	.	.	.
15.333	583.6608	1231.84	.	.V	Q	.	.	.
15.417	592.3546	1262.34	.	.V	.Q	.	.	.
15.500	601.2574	1292.69	.	.V	.Q	.	.	.
15.583	610.3363	1318.26	.	.V	.Q	.	.	.
15.667	619.5884	1343.41	.	.V	.Q	.	.	.
15.750	629.0067	1367.53	.	.V	.Q	.	.	.
15.833	638.6108	1394.52	.	.V	.Q	.	.	.
15.917	648.4376	1426.84	.	.V	.Q	.	.	.
16.000	658.4852	1458.92	.	.V	.Q	.	.	.
16.083	668.9136	1514.19	.	.V	.Q	.	.	.
16.167	679.7018	1566.46	.	.V	.Q	.	.	.
16.250	690.6616	1591.35	.	.V	.Q	.	.	.
16.333	701.8125	1619.12	.	.V	.Q	.	.	.
16.417	713.1098	1640.37	.	.V	.Q	.	.	.
16.500	724.5447	1660.34	.	.V	.Q	.	.	.
16.583	736.1292	1682.07	.	.V	.Q	.	.	.
16.667	747.9374	1714.56	.	.V	.Q	.	.	.
16.750	760.0010	1751.64	.	.V	.Q	.	.	.
16.833	772.1940	1770.42	.	.V	.Q	.	.	.
16.917	784.5140	1788.87	.	.V	.Q	.	.	.
17.000	796.9505	1805.78	.	.V	.Q	.	.	.
17.083	809.8093	1867.09	.	.V	.Q	.	.	.
17.167	823.0147	1917.43	.	.V	.Q	.	.	.
17.250	836.3687	1939.00	.	.V	.Q	.	.	.
17.333	850.1119	1995.52	.	.V	.Q	.	.	.
17.417	864.1145	2033.18	.	.V	.Q	.	.	.
17.500	878.5407	2094.69	.	.V	.Q	.	.	.
17.583	893.0088	2100.76	.	.V	.Q	.	.	.
17.667	907.4950	2103.40	.	.V	.Q	.	.	.
17.750	922.0889	2119.04	.	.V	.Q	.	.	.
17.833	937.0803	2176.75	.	.V.	.Q	.	.	.
17.917	952.6563	2261.64	.	.V.	.Q	.	.	.
18.000	967.7109	2185.93	.	.V.	.Q	.	.	.
18.083	982.8014	2191.14	.	.V	.Q	.	.	.
18.167	998.0182	2209.48	.	.V	.Q	.	.	.
18.250	1013.6609	2271.32	.	.V	.Q	.	.	.
18.333	1029.6558	2322.46	.	.V	.Q	.	.	.
18.417	1045.1589	2251.06	.	.V	.Q	.	.	.

18.500	1060.4504	2220.33	.	.	.	V	.	Q	.
18.583	1075.8317	2233.35	.	.	.	V	.	Q	.
18.667	1091.7729	2314.67	.	.	.	V	.	Q	.
18.750	1107.4644	2278.38	.	.	.	V	.	Q	.
18.833	1123.6714	2353.26	.	.	.	V	.	Q	.
18.917	1139.5703	2308.53	.	.	.	V	.	Q	.
19.000	1154.6986	2196.63	.	.	.	V	.	Q	.
19.083	1170.4344	2284.84	.	.	.	V	.	Q	.
19.167	1186.8339	2381.19	.	.	.	V	.	Q	.
19.250	1202.9456	2339.42	.	.	.	V	.	Q	.
19.333	1218.8835	2314.19	.	.	.	V	.	Q	.
19.417	1235.1604	2363.39	.	.	.	V	.	Q	.
19.500	1251.2773	2340.18	.	.	.	V	.	Q	.
19.583	1266.3453	2187.88	.	.	.	V	.	Q	.
19.667	1281.2402	2162.73	.	.	.	V	.	Q	.
19.750	1295.9817	2140.45	.	.	.	V	.	Q	.
19.833	1311.0195	2183.50	.	.	.	V	.	Q	.
19.917	1326.3168	2221.15	.	.	.	V	.	Q	.
20.000	1341.9139	2264.70	.	.	.	V	.	Q	.
20.083	1356.6443	2138.84	.	.	.	V	.	Q	.
20.167	1370.8251	2059.06	.	.	.	V	.	Q	.
20.250	1384.7848	2026.95	.	.	.	V	.	Q	.
20.333	1398.9584	2058.00	.	.	.	V	.	Q	.
20.417	1412.5348	1971.30	.	.	.	V	.	Q	.
20.500	1425.8448	1932.63	.	.	.	V	.	Q	.
20.583	1439.1174	1927.18	.	.	.	V	.	Q	.
20.667	1452.1130	1886.96	.	.	.	V	.	Q	.
20.750	1464.5255	1802.29	.	.	.	V	.	Q	.
20.833	1476.6027	1753.60	.	.	.	V	.	Q	.
20.917	1488.5002	1727.52	.	.	.	V	.	Q	.
21.000	1500.2390	1704.47	.	.	.	V	.	Q	.
21.083	1511.8555	1686.71	.	.	.	V	.	Q	.
21.167	1523.2134	1649.17	.	.	.	V	.	Q	.
21.250	1534.2662	1604.87	.	.	.	V	.	Q	.
21.333	1545.0441	1564.94	.	.	.	V	.	Q	.
21.417	1555.5251	1521.86	.	.	.	V	.	Q	.
21.500	1565.7256	1481.10	.	.	.	V	.	Q	.
21.583	1575.5638	1428.51	.	.	.	V	.	Q	.
21.667	1585.2042	1399.78	.	.	.	V	.	Q	.
21.750	1594.5391	1355.42	.	.	.	V	.	Q	.
21.833	1603.5959	1315.07	.	.	.	V	.	Q	.
21.917	1612.4620	1287.35	.	.	.	V	.	Q	.
22.000	1621.1084	1255.45	.	.	.	V	.	Q	.
22.083	1629.5117	1220.16	.	.	.	V	.	Q	.
22.167	1637.7330	1193.73	.	.	.	V	.	Q	.
22.250	1645.7836	1168.94	.	.	.	V	.	Q	.
22.333	1653.6368	1140.30	.	.	.	V	.	Q	.
22.417	1661.2759	1109.20	.	.	.	V	.	Q	.
22.500	1668.7528	1085.65	.	.	.	V	.	Q	.
22.583	1676.0732	1062.92	.	.	.	V	.	Q	.
22.667	1683.2277	1038.81	.	.	.	V	.	Q	.
22.750	1690.0934	996.90	.	.	.	V	.	Q	.
22.833	1696.7938	972.90	.	.	.	V	.	Q	.
22.917	1703.3788	956.14	.	.	.	V	.	Q	.
23.000	1709.8503	939.67	.	.	.	V	.	Q	.
23.083	1716.2012	922.15	.	.	.	V	.	Q	.
23.167	1722.4271	904.01	.	.	.	V	.	Q	.
23.250	1728.4692	877.31	.	.	.	V	.	Q	.

23.333	1734.2947	845.86	.	.	.	Q	.	.	V	.
23.417	1740.0125	830.23	.	.	.	Q	.	.	V	.
23.500	1745.6360	816.54	.	.	.	Q	.	.	V	.
23.583	1751.1699	803.52	.	.	.	Q	.	.	V	.
23.667	1756.6121	790.19	.	.	.	Q	.	.	V	.
23.750	1761.9709	778.10	.	.	.	Q	.	.	V	.
23.833	1767.2534	767.02	.	.	.	Q	.	.	V	.
23.917	1772.4592	755.88	.	.	.	Q	.	.	V	.
24.000	1777.5830	743.97	.	.	.	Q	.	.	V	.
24.083	1782.6051	729.21	.	.	.	Q	.	.	V	.
24.167	1787.3901	694.79	.	.	.	Q	.	.	V	.
24.250	1792.0581	677.79	.	.	.	Q	.	.	V	.
24.333	1796.6528	667.15	.	.	.	Q	.	.	V	.
24.417	1801.1781	657.07	.	.	.	Q	.	.	V	.
24.500	1805.6281	646.13	.	.	.	Q	.	.	V	.
24.583	1810.0021	635.11	.	.	.	Q	.	.	V	.
24.667	1814.3003	624.09	.	.	.	Q	.	.	V	.
24.750	1818.5247	613.38	.	.	.	Q	.	.	V	.
24.833	1822.6787	603.16	.	.	.	Q	.	.	V	.
24.917	1826.7601	592.62	.	.	.	Q	.	.	V	.
25.000	1830.7723	582.57	.	.	.	Q	.	.	V	.
25.083	1834.7096	571.68	.	.	.	Q	.	.	V	.
25.167	1838.5734	561.02	.	.	.	Q	.	.	V	.
25.250	1842.3683	551.03	.	.	.	Q	.	.	V	.
25.333	1846.0938	540.93	.	.	.	Q	.	.	V	.
25.417	1849.7455	530.24	.	.	.	Q	.	.	V	.
25.500	1853.3248	519.72	.	.	.	Q	.	.	V	.
25.583	1856.8286	508.75	.	.	.	Q	.	.	V	.
25.667	1860.2600	498.24	.	.	.	Q	.	.	V	.
25.750	1863.6187	487.68	.	.	.	Q	.	.	V	.
25.833	1866.9006	476.54	.	.	.	Q	.	.	V	.
25.917	1870.0950	463.82	.	.	.	Q	.	.	V	.
26.000	1873.2137	452.84	.	.	.	Q	.	.	V	.
26.083	1876.2601	442.33	.	.	.	Q	.	.	V	.
26.167	1879.2383	432.43	.	.	.	Q	.	.	V	.
26.250	1882.1429	421.76	.	.	.	Q	.	.	V	.
26.333	1884.9684	410.26	.	.	.	Q	.	.	V	.
26.417	1887.7253	400.30	.	.	.	Q	.	.	V	.
26.500	1890.4176	390.92	.	.	.	Q	.	.	V	.
26.583	1893.0443	381.40	.	.	.	Q	.	.	V	.
26.667	1895.5953	370.40	.	.	.	Q	.	.	V	.
26.750	1898.0756	360.12	.	.	.	Q	.	.	V	.
26.833	1900.4728	348.08	.	.	.	Q	.	.	V	.
26.917	1902.7922	336.78	.	.	.	Q	.	.	V	.
27.000	1905.0505	327.90	.	.	.	Q	.	.	V	.
27.083	1907.2361	317.34	.	.	.	Q	.	.	V	.
27.167	1909.3376	305.15	.	.	.	Q	.	.	V	.
27.250	1911.3613	293.85	.	.	.	Q	.	.	V	.
27.333	1913.3082	282.68	.	.	.	Q	.	.	V	.
27.417	1915.1696	270.27	.	.	.	Q	.	.	V	.
27.500	1916.9475	258.17	.	.	.	Q	.	.	V	.
27.583	1918.6620	248.93	.	.	.	Q	.	.	V	.
27.667	1920.3130	239.72	.	.	.	Q	.	.	V	.
27.750	1921.9014	230.64	.	.	.	Q	.	.	V	.
27.833	1923.3765	214.19	.	.	.	Q	.	.	V	.
27.917	1924.7598	200.86	.	.	.	Q	.	.	V	.
28.000	1926.0610	188.95	.	.	.	Q	.	.	V	.
28.083	1927.2959	179.30	.	.	.	Q	.	.	V	.

28.167	1928.4712	170.65	. Q	.	.	.	V.
28.250	1929.5883	162.19	. Q	.	.	.	V.
28.333	1930.6403	152.75	. Q	.	.	.	V.
28.417	1931.6362	144.61	. Q	.	.	.	V.
28.500	1932.5785	136.82	. Q	.	.	.	V.
28.583	1933.4651	128.73	. Q	.	.	.	V.
28.667	1934.2985	121.01	. Q	.	.	.	V.
28.750	1935.0874	114.55	.Q	.	.	.	V.
28.833	1935.8367	108.79	.Q	.	.	.	V.
28.917	1936.5472	103.18	.Q	.	.	.	V.
29.000	1937.2192	97.58	.Q	.	.	.	V.
29.083	1937.8517	91.82	.Q	.	.	.	V.
29.167	1938.4458	86.27	.Q	.	.	.	V.
29.250	1939.0042	81.08	.Q	.	.	.	V.
29.333	1939.5282	76.08	.Q	.	.	.	V.
29.417	1940.0198	71.37	.Q	.	.	.	V.
29.500	1940.4805	66.89	.Q	.	.	.	V.
29.583	1940.9141	62.95	.Q	.	.	.	V.
29.667	1941.3209	59.07	Q	.	.	.	V.
29.750	1941.7040	55.62	Q	.	.	.	V.
29.833	1942.0671	52.73	Q	.	.	.	V.
29.917	1942.4111	49.95	Q	.	.	.	V.
30.000	1942.7365	47.24	Q	.	.	.	V.
30.083	1943.0446	44.74	Q	.	.	.	V.
30.167	1943.3357	42.28	Q	.	.	.	V.
30.250	1943.6101	39.85	Q	.	.	.	V.
30.333	1943.8682	37.47	Q	.	.	.	V.
30.417	1944.1111	35.26	Q	.	.	.	V.
30.500	1944.3390	33.09	Q	.	.	.	V.
30.583	1944.5520	30.93	Q	.	.	.	V.
30.667	1944.7505	28.82	Q	.	.	.	V.
30.750	1944.9377	27.19	Q	.	.	.	V.
30.833	1945.1149	25.71	Q	.	.	.	V.
30.917	1945.2819	24.24	Q	.	.	.	V.
31.000	1945.4388	22.79	Q	.	.	.	V.
31.083	1945.5858	21.35	Q	.	.	.	V.
31.167	1945.7230	19.91	Q	.	.	.	V.
31.250	1945.8517	18.67	Q	.	.	.	V.
31.333	1945.9739	17.74	Q	.	.	.	V.
31.417	1946.0897	16.82	Q	.	.	.	V.
31.500	1946.1993	15.91	Q	.	.	.	V.
31.583	1946.3027	15.01	Q	.	.	.	V.
31.667	1946.3999	14.11	Q	.	.	.	V.
31.750	1946.4910	13.22	Q	.	.	.	V.
31.833	1946.5759	12.34	Q	.	.	.	V.
31.917	1946.6548	11.46	Q	.	.	.	V.
32.000	1946.7277	10.59	Q	.	.	.	V.
32.083	1946.7949	9.77	Q	.	.	.	V.
32.167	1946.8596	9.40	Q	.	.	.	V.
32.250	1946.9225	9.13	Q	.	.	.	V.
32.333	1946.9836	8.88	Q	.	.	.	V.
32.417	1947.0430	8.62	Q	.	.	.	V.
32.500	1947.1006	8.37	Q	.	.	.	V.
32.583	1947.1565	8.12	Q	.	.	.	V.
32.667	1947.2107	7.87	Q	.	.	.	V.
32.750	1947.2632	7.63	Q	.	.	.	V.
32.833	1947.3141	7.38	Q	.	.	.	V.
32.917	1947.3633	7.15	Q	.	.	.	V.

33.000	1947.4109	6.91	Q	.	.	.	V.
33.083	1947.4568	6.67	Q	.	.	.	V.
33.167	1947.5011	6.44	Q	.	.	.	V.
33.250	1947.5438	6.21	Q	.	.	.	V.
33.333	1947.5850	5.97	Q	.	.	.	V.
33.417	1947.6245	5.75	Q	.	.	.	V.
33.500	1947.6625	5.52	Q	.	.	.	V.
33.583	1947.6990	5.30	Q	.	.	.	V.
33.667	1947.7339	5.07	Q	.	.	.	V.
33.750	1947.7673	4.85	Q	.	.	.	V.
33.833	1947.7992	4.63	Q	.	.	.	V.
33.917	1947.8296	4.42	Q	.	.	.	V.
34.000	1947.8585	4.20	Q	.	.	.	V.
34.083	1947.8860	3.99	Q	.	.	.	V.
34.167	1947.9120	3.78	Q	.	.	.	V.
34.250	1947.9366	3.57	Q	.	.	.	V.
34.333	1947.9598	3.37	Q	.	.	.	V.
34.417	1947.9816	3.16	Q	.	.	.	V.
34.500	1948.0020	2.96	Q	.	.	.	V.
34.583	1948.0209	2.75	Q	.	.	.	V.
34.667	1948.0385	2.55	Q	.	.	.	V.
34.750	1948.0547	2.35	Q	.	.	.	V.
34.833	1948.0696	2.15	Q	.	.	.	V.
34.917	1948.0830	1.96	Q	.	.	.	V.
35.000	1948.0951	1.76	Q	.	.	.	V.
35.083	1948.1058	1.57	Q	.	.	.	V.
35.167	1948.1152	1.37	Q	.	.	.	V.
35.250	1948.1234	1.18	Q	.	.	.	V.
35.333	1948.1302	0.99	Q	.	.	.	V.
35.417	1948.1357	0.80	Q	.	.	.	V.
35.500	1948.1399	0.61	Q	.	.	.	V.
35.583	1948.1428	0.42	Q	.	.	.	V.
35.667	1948.1444	0.24	Q	.	.	.	V.
35.750	1948.1448	0.05	Q	.	.	.	V.

-----

TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
(Note: 100% of Peak Flow Rate estimate assumed to have  
an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
=====	=====
0%	2145.0
10%	1440.0
20%	1085.0
30%	665.0
40%	515.0
50%	420.0
60%	335.0
70%	275.0
80%	210.0
90%	130.0
=====	=====

END OF FLOODSCx ROUTING ANALYSIS

\*\*\*\*\*

FLOOD ROUTING ANALYSIS  
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)  
(c) Copyright 1989-2013 Advanced Engineering Software (aes)  
Ver. 20.0 Release Date: 06/01/2013 License ID 1237

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*  
\* RMV PA-3 BODR 2022 - NODE 127 \*  
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*  
\* 5-YR EV JULY 2022 ROKAMOTO \*  
\*\*\*\*\*

FILE NAME: EV05127S.DAT  
TIME/DATE OF STUDY: 11:50 07/25/2022

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 127.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<

=====

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 52666.000 ACRES  
BASEFLOW = 0.000 CFS/SQUARE-MILE  
\*USER ENTERED "LAG" TIME = 3.580 HOURS  
VALLEY (DEVELOPED) S-GRAPH SELECTED  
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.485  
LOW LOSS FRACTION = 0.838  
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.23  
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.44  
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 0.61  
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 1.14  
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 1.69  
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 2.97

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:  
5-MINUTE FACTOR = 0.333  
30-MINUTE FACTOR = 0.385  
1-HOUR FACTOR = 0.425  
3-HOUR FACTOR = 0.775  
6-HOUR FACTOR = 0.899  
24-HOUR FACTOR = 0.941

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES  
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 2.328

===== UNIT HYDROGRAPH DETERMINATION =====

INTERVAL NUMBER	"S" GRAPH MEAN VALUES	UNIT HYDROGRAPH ORDINATES (CFS)
1	0.133	847.207
2	0.399	1694.410
3	0.665	1694.412
4	0.931	1694.412
5	1.197	1694.412
6	1.463	1694.412
7	1.729	1694.416
8	2.011	1797.103
9	2.398	2459.856
10	2.802	2578.448
11	3.207	2578.448
12	3.612	2578.469
13	4.067	2896.106
14	4.776	4516.775
15	5.521	4744.389
16	6.352	5294.009
17	7.330	6227.182
18	8.397	6796.805
19	9.632	7868.676
20	10.821	7569.235
21	11.984	7413.036
22	13.148	7413.084
23	14.518	8725.465
24	16.212	10788.718
25	17.483	8092.178
26	18.724	7907.217
27	20.000	8127.663
28	21.514	9641.666
29	23.269	11181.642
30	24.811	9815.862
31	26.141	8471.951
32	27.474	8489.821
33	29.121	10494.403
34	30.820	10817.406
35	32.584	11234.925
36	34.705	13509.555
37	36.368	10597.446
38	37.653	8179.367
39	39.883	14208.311
40	41.982	13365.596
41	44.116	13593.063
42	46.212	13348.223
43	48.701	15852.362
44	50.914	14098.415
45	52.607	10782.662
46	54.268	10576.575
47	55.850	10079.897
48	57.664	11556.252

49	59.721	13096.701
50	62.132	15356.000
51	64.095	12502.860
52	65.737	10458.662
53	67.279	9822.034
54	69.003	10985.079
55	70.648	10477.371
56	72.026	8773.913
57	73.521	9524.057
58	74.982	9301.643
59	76.290	8334.382
60	77.334	6646.182
61	78.368	6589.473
62	79.403	6588.113
63	80.463	6755.081
64	81.558	6972.927
65	82.585	6541.317
66	83.565	6242.076
67	84.493	5912.075
68	85.380	5648.842
69	86.212	5298.820
70	86.932	4584.004
71	87.648	4561.311
72	88.278	4016.185
73	88.826	3488.456
74	89.374	3488.456
75	89.918	3465.714
76	90.420	3197.184
77	90.910	3121.038
78	91.400	3121.038
79	91.888	3109.035
80	92.344	2903.240
81	92.787	2824.421
82	93.230	2821.748
83	93.674	2827.142
84	94.074	2546.513
85	94.374	1907.892
86	94.669	1883.838
87	94.965	1881.166
88	95.260	1883.838
89	95.556	1883.838
90	95.852	1881.166
91	96.091	1525.799
92	96.274	1162.365
93	96.456	1162.365
94	96.639	1162.365
95	96.821	1162.414
96	97.004	1162.365
97	97.187	1165.038
98	97.369	1159.693
99	97.551	1165.038
100	97.734	1162.365
101	97.917	1165.038
102	98.023	678.710
103	98.068	280.581
104	98.111	277.908
105	98.154	275.236
106	98.198	277.908

107	98.242	277.908
108	98.286	280.532
109	98.329	277.908
110	98.373	280.581
111	98.417	277.908
112	98.461	277.908
113	98.504	277.908
114	98.548	277.860
115	98.592	277.908
116	98.636	283.254
117	98.679	272.563
118	98.722	277.908
119	98.766	277.908
120	98.811	283.205
121	98.853	272.563
122	98.897	277.908
123	98.941	277.908
124	98.984	277.908
125	99.029	283.254
126	99.072	277.908
127	99.116	277.908
128	99.160	277.908
129	99.203	277.908
130	99.247	277.908
131	99.290	277.908
132	99.334	277.908
133	99.378	277.908
134	99.421	277.908
135	99.465	277.908
136	99.509	277.908
137	99.552	277.908
138	99.596	277.908
139	99.640	277.908
140	99.683	277.908
141	99.727	277.908
142	99.770	277.908
143	99.814	277.908
144	99.858	277.908
145	99.901	277.908
146	99.945	277.908
147	99.989	277.908
148	100.000	72.696

-----  
TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 10173.2188  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 2084.6770  
-----

=====

2 4 - 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 FIVE-MINUTE UNIT INTERVALS (CFS)

(Note: Time indicated is at END of Each Unit Intervals)

TIME (HRS)	VOLUME (AF)	Q (CFS)	0.	625.0	1250.0	1875.0	2500.0
0.083	0.0040	0.59	Q	.	.	.	.
0.167	0.0162	1.76	Q	.	.	.	.
0.250	0.0364	2.94	Q	.	.	.	.
0.333	0.0648	4.12	Q	.	.	.	.
0.417	0.1013	5.31	Q	.	.	.	.
0.500	0.1461	6.50	Q	.	.	.	.
0.583	0.1990	7.69	Q	.	.	.	.
0.667	0.2607	8.95	Q	.	.	.	.
0.750	0.3343	10.68	Q	.	.	.	.
0.833	0.4204	12.50	Q	.	.	.	.
0.917	0.5190	14.32	Q	.	.	.	.
1.000	0.6302	16.15	Q	.	.	.	.
1.083	0.7556	18.20	Q	.	.	.	.
1.167	0.9029	21.39	Q	.	.	.	.
1.250	1.0733	24.73	Q	.	.	.	.
1.333	1.2694	28.47	Q	.	.	.	.
1.417	1.4957	32.87	Q	.	.	.	.
1.500	1.7552	37.68	Q	.	.	.	.
1.583	2.0530	43.24	Q	.	.	.	.
1.667	2.3878	48.61	Q	.	.	.	.
1.750	2.7589	53.89	Q	.	.	.	.
1.833	3.1665	59.18	Q	.	.	.	.
1.917	3.6169	65.40	VQ	.	.	.	.
2.000	4.1202	73.07	VQ	.	.	.	.
2.083	4.6635	78.89	VQ	.	.	.	.
2.167	5.2462	84.61	VQ	.	.	.	.
2.250	5.8695	90.50	VQ	.	.	.	.
2.333	6.5406	97.45	VQ	.	.	.	.
2.417	7.2671	105.49	VQ	.	.	.	.
2.500	8.0427	112.61	VQ	.	.	.	.
2.583	8.8610	118.82	VQ	.	.	.	.
2.667	9.7223	125.07	V Q	.	.	.	.
2.750	10.6364	132.72	V Q	.	.	.	.
2.833	11.6049	140.62	V Q	.	.	.	.
2.917	12.6299	148.84	V Q	.	.	.	.
3.000	13.7226	158.66	V Q	.	.	.	.
3.083	14.8692	166.49	V Q	.	.	.	.
3.167	16.0584	172.67	V Q	.	.	.	.
3.250	17.3191	183.05	V Q	.	.	.	.
3.333	18.6475	192.88	V Q	.	.	.	.
3.417	20.0449	202.90	V Q	.	.	.	.
3.500	21.5104	212.79	V Q	.	.	.	.
3.583	23.0561	224.44	V Q	.	.	.	.
3.667	24.6739	234.91	V Q	.	.	.	.
3.750	26.3483	243.12	V Q	.	.	.	.
3.833	28.0785	251.22	V Q	.	.	.	.
3.917	29.8623	259.01	V Q	.	.	.	.

4.000	31.7069	267.84	V Q	.	.	.	.
4.083	33.6199	277.77	V Q	.	.	.	.
4.167	35.6123	289.30	V Q	.	.	.	.
4.250	37.6708	298.89	V Q	.	.	.	.
4.333	39.7858	307.10	V Q	.	.	.	.
4.417	41.9546	314.91	V Q	.	.	.	.
4.500	44.1828	323.54	V Q	.	.	.	.
4.583	46.4684	331.86	V Q	.	.	.	.
4.667	48.8032	339.02	V Q	.	.	.	.
4.750	51.1913	346.74	V Q	.	.	.	.
4.833	53.6315	354.33	.V Q	.	.	.	.
4.917	56.1197	361.28	.V Q	.	.	.	.
5.000	58.6479	367.09	.V Q	.	.	.	.
5.083	61.2160	372.89	.V Q	.	.	.	.
5.167	63.8242	378.71	.V Q	.	.	.	.
5.250	66.4734	384.67	.V Q	.	.	.	.
5.333	69.1649	390.81	.V Q	.	.	.	.
5.417	71.8969	396.67	.V Q	.	.	.	.
5.500	74.6679	402.36	.V Q	.	.	.	.
5.583	77.4768	407.84	.V Q	.	.	.	.
5.667	80.3223	413.17	.V Q	.	.	.	.
5.750	83.2030	418.28	.V Q	.	.	.	.
5.833	86.1156	422.92	.V Q	.	.	.	.
5.917	89.0603	427.56	.V Q	.	.	.	.
6.000	92.0345	431.86	.V Q	.	.	.	.
6.083	95.0360	435.81	.V Q	.	.	.	.
6.167	98.0648	439.78	.V Q	.	.	.	.
6.250	101.1210	443.77	.V Q	.	.	.	.
6.333	104.2036	447.59	.V Q	.	.	.	.
6.417	107.3122	451.38	.V Q	.	.	.	.
6.500	110.4471	455.19	.V Q	.	.	.	.
6.583	113.6084	459.02	.V Q	.	.	.	.
6.667	116.7952	462.72	.V Q	.	.	.	.
6.750	120.0074	466.40	.V Q	.	.	.	.
6.833	123.2450	470.10	.V Q	.	.	.	.
6.917	126.5083	473.83	.V Q	.	.	.	.
7.000	129.7961	477.39	.V Q	.	.	.	.
7.083	133.1056	480.53	.V Q	.	.	.	.
7.167	136.4367	483.68	.V Q	.	.	.	.
7.250	139.7897	486.85	.V Q	.	.	.	.
7.333	143.1647	490.05	.V Q	.	.	.	.
7.417	146.5619	493.27	.V Q	.	.	.	.
7.500	149.9814	496.52	.V Q	.	.	.	.
7.583	153.4218	499.54	.V Q	.	.	.	.
7.667	156.8814	502.34	.V Q	.	.	.	.
7.750	160.3605	505.16	.V Q	.	.	.	.
7.833	163.8592	508.01	.V Q	.	.	.	.
7.917	167.3777	510.89	.V Q	.	.	.	.
8.000	170.9162	513.79	.V Q	.	.	.	.
8.083	174.4749	516.72	.V Q	.	.	.	.
8.167	178.0540	519.67	.V Q	.	.	.	.
8.250	181.6535	522.66	.V Q	.	.	.	.
8.333	185.2739	525.67	.V Q	.	.	.	.
8.417	188.9152	528.72	.V Q	.	.	.	.
8.500	192.5754	531.45	.V Q	.	.	.	.
8.583	196.2527	533.95	.V Q	.	.	.	.
8.667	199.9473	536.46	.V Q	.	.	.	.
8.750	203.6595	539.01	.V Q	.	.	.	.



8.833	207.3894	541.59	.	V	Q	.	.	.	.
8.917	211.1373	544.20	.	V	Q	.	.	.	.
9.000	214.9034	546.84	.	V	Q	.	.	.	.
9.083	218.6879	549.51	.	V	Q	.	.	.	.
9.167	222.4911	552.22	.	V	Q	.	.	.	.
9.250	226.3131	554.96	.	V	Q	.	.	.	.
9.333	230.1542	557.73	.	V	Q	.	.	.	.
9.417	234.0147	560.54	.	V	Q	.	.	.	.
9.500	237.8947	563.38	.	V	Q	.	.	.	.
9.583	241.7946	566.27	.	V	Q	.	.	.	.
9.667	245.7147	569.19	.	V	Q	.	.	.	.
9.750	249.6550	572.14	.	V	Q	.	.	.	.
9.833	253.6161	575.14	.	V	Q	.	.	.	.
9.917	257.5980	578.18	.	V	Q	.	.	.	.
10.000	261.6012	581.26	.	V	Q	.	.	.	.
10.083	265.6259	584.38	.	V	Q	.	.	.	.
10.167	269.6723	587.54	.	V	Q	.	.	.	.
10.250	273.7409	590.76	.	V	Q	.	.	.	.
10.333	277.8318	594.01	.	V	Q	.	.	.	.
10.417	281.9456	597.32	.	V	Q	.	.	.	.
10.500	286.0824	600.66	.	V	Q	.	.	.	.
10.583	290.2426	604.07	.	V	Q	.	.	.	.
10.667	294.4266	607.51	.	V	Q	.	.	.	.
10.750	298.6347	611.02	.	V	Q	.	.	.	.
10.833	302.8673	614.57	.	V	Q	.	.	.	.
10.917	307.1248	618.18	.	V	Q	.	.	.	.
11.000	311.4074	621.85	.	V	Q	.	.	.	.
11.083	315.7158	625.57	.	V	Q	.	.	.	.
11.167	320.0502	629.35	.	V	Q	.	.	.	.
11.250	324.4110	633.20	.	V	Q	.	.	.	.
11.333	328.7988	637.10	.	V	Q	.	.	.	.
11.417	333.2139	641.08	.	V	Q	.	.	.	.
11.500	337.6569	645.11	.	V	Q	.	.	.	.
11.583	342.1281	649.22	.	V	Q	.	.	.	.
11.667	346.6281	653.40	.	V	Q	.	.	.	.
11.750	351.1574	657.65	.	V	Q	.	.	.	.
11.833	355.7165	661.98	.	V	Q	.	.	.	.
11.917	360.3059	666.38	.	V	Q	.	.	.	.
12.000	364.9261	670.86	.	V	Q	.	.	.	.
12.083	369.5847	676.42	.	V	Q	.	.	.	.
12.167	374.2888	683.04	.	V	Q	.	.	.	.
12.250	379.0390	689.74	.	V	.Q	.	.	.	.
12.333	383.8350	696.37	.	V	.Q	.	.	.	.
12.417	388.6769	703.05	.	V	.Q	.	.	.	.
12.500	393.5653	709.80	.	V	.Q	.	.	.	.
12.583	398.5009	716.65	.	V	.Q	.	.	.	.
12.667	403.4852	723.71	.	V	.Q	.	.	.	.
12.750	408.5240	731.64	.	V	.Q	.	.	.	.
12.833	413.6190	739.79	.	V	.Q	.	.	.	.
12.917	418.7709	748.05	.	V	.Q	.	.	.	.
13.000	423.9803	756.41	.	V	.Q	.	.	.	.
13.083	429.2505	765.24	.	V	.Q	.	.	.	.
13.167	434.5953	776.06	.	V	.Q	.	.	.	.
13.250	440.0172	787.26	.	V	.Q	.	.	.	.
13.333	445.5213	799.20	.	V	.Q	.	.	.	.
13.417	451.1159	812.33	.	V	.Q	.	.	.	.
13.500	456.8062	826.22	.	V	.Q	.	.	.	.
13.583	462.6015	841.48	.	V	.Q	.	.	.	.

13.667	468.5002	856.49	.	V	.Q	.	.	.	.
13.750	474.5017	871.43	.	V	.Q	.	.	.	.
13.833	480.6069	886.48	.	V	.Q	.	.	.	.
13.917	486.8272	903.18	.	V	.Q	.	.	.	.
14.000	493.1798	922.40	.	V	.Q	.	.	.	.
14.083	499.6516	939.70	.	V	.Q	.	.	.	.
14.167	506.2492	957.97	.	V	.Q	.	.	.	.
14.250	512.9749	976.57	.	V	.Q	.	.	.	.
14.333	519.8411	996.97	.	V	.Q	.	.	.	.
14.417	526.8605	1019.22	.	V	.Q	.	.	.	.
14.500	534.0225	1039.92	.	V	.Q	.	.	.	.
14.583	541.3167	1059.12	.	V	.Q	.	.	.	.
14.667	548.7445	1078.52	.	V	.Q	.	.	.	.
14.750	556.3285	1101.20	.	V	.Q	.	.	.	.
14.833	564.0724	1124.42	.	V	.Q	.	.	.	.
14.917	571.9797	1148.14	.	V	.Q	.	.	.	.
15.000	580.0687	1174.52	.	.V	.Q	.	.	.	.
15.083	588.3189	1197.94	.	.V	.Q	.	.	.	.
15.167	596.7255	1220.63	.	.V	.Q	.	.	.	.
15.250	605.3384	1250.59	.	.V	.Q	.	.	.	.
15.333	614.1548	1280.15	.	.V	.Q	.	.	.	.
15.417	623.1743	1309.63	.	.V	.Q	.	.	.	.
15.500	632.3893	1338.02	.	.V	.Q	.	.	.	.
15.583	641.8302	1370.81	.	.V	.Q	.	.	.	.
15.667	651.4806	1401.24	.	.V	.Q	.	.	.	.
15.750	661.3094	1427.15	.	.V	.Q	.	.	.	.
15.833	671.3130	1452.53	.	.V	.Q	.	.	.	.
15.917	681.5048	1479.84	.	.V	.Q	.	.	.	.
16.000	691.9241	1512.88	.	.V	.Q	.	.	.	.
16.083	702.7333	1569.50	.	.V	.Q	.	.	.	.
16.167	713.9359	1626.63	.	.V	.Q	.	.	.	.
16.250	725.3230	1653.40	.	.V	.Q	.	.	.	.
16.333	736.8873	1679.13	.	.V	.Q	.	.	.	.
16.417	748.6373	1706.10	.	.V	.Q	.	.	.	.
16.500	760.5593	1731.08	.	.V	.Q	.	.	.	.
16.583	772.6406	1754.21	.	.V	.Q	.	.	.	.
16.667	784.8903	1778.66	.	.V	.Q	.	.	.	.
16.750	797.4394	1822.13	.	.V	.Q	.	.	.	.
16.833	810.1566	1846.53	.	.V	.Q	.	.	.	.
16.917	823.0038	1865.43	.	.V	.Q	.	.	.	.
17.000	836.0035	1887.56	.	.V	.Q	.	.	.	.
17.083	849.2098	1917.55	.	.V	.Q	.	.	.	.
17.167	862.8679	1983.14	.	.V	.Q	.	.	.	.
17.250	876.7137	2010.42	.	.V	.Q	.	.	.	.
17.333	890.7925	2044.24	.	.V	.Q	.	.	.	.
17.417	905.2198	2094.84	.	.V	.Q	.	.	.	.
17.500	919.9291	2135.78	.	.V	.Q	.	.	.	.
17.583	935.0256	2192.01	.	.V	.Q	.	.	.	.
17.667	950.1674	2198.59	.	.V	.Q	.	.	.	.
17.750	965.3581	2205.68	.	.V	.Q	.	.	.	.
17.833	980.6663	2222.75	.	.V	.Q	.	.	.	.
17.917	996.3905	2283.15	.	.V	.Q	.	.	.	.
18.000	1012.6516	2361.11	.	.V	.Q	.	.	.	.
18.083	1028.3956	2286.05	.	.V	.Q	.	.	.	.
18.167	1044.1887	2293.16	.	.V	.Q	.	.	.	.
18.250	1060.1178	2312.91	.	.V	.Q	.	.	.	.
18.333	1076.4304	2368.59	.	.V	.Q	.	.	.	.
18.417	1093.0822	2417.83	.	.V	.Q	.	.	.	.

18.500	1109.4680	2379.23	.	.	.V	.	Q	.
18.583	1125.5264	2331.67	.	.	.V	.	Q	.
18.667	1141.5732	2330.01	.	.	.V	.	Q	.
18.750	1158.0670	2394.90	.	.	.V	.	Q	.
18.833	1174.6440	2406.98	.	.	.V	.	Q	.
18.917	1191.2316	2408.51	.	.	.V	.	Q	.
19.000	1208.1669	2459.01	.	.	.V	.	Q.	.
19.083	1224.4296	2361.35	.	.	.V	.	Q	.
19.167	1240.1902	2288.45	.	.	.V	.	Q	.
19.250	1257.2324	2474.53	.	.	.V	.	Q.	.
19.333	1274.0496	2441.85	.	.	.V	.	Q.	.
19.417	1290.8257	2435.90	.	.	.V	.	Q.	.
19.500	1307.3999	2406.58	.	.	.V	.	Q.	.
19.583	1324.4180	2471.03	.	.	.V	.	Q.	.
19.667	1340.9425	2399.36	.	.	.V	.	Q.	.
19.750	1356.6477	2280.39	.	.	.V	.	Q	.
19.833	1372.1897	2256.69	.	.	.V	.	Q	.
19.917	1387.5654	2232.56	.	.	.V	.	Q	.
20.000	1403.1915	2268.92	.	.	.V	.	Q	.
20.083	1419.0587	2303.92	.	.	.V	.	Q	.
20.167	1435.2803	2355.37	.	.	.V	.	Q	.
20.250	1450.6855	2236.84	.	.	.V	.	Q	.
20.333	1465.5037	2151.59	.	.	.V	.	Q	.
20.417	1480.0470	2111.69	.	.	.V	.	Q	.
20.500	1494.7242	2131.13	.	.	.V	.	Q	.
20.583	1509.1213	2090.46	.	.	.V	.	Q	.
20.667	1522.9885	2013.51	.	.	.V.	.		.
20.750	1536.8553	2013.46	.	.	.V.	.		.
20.833	1550.5068	1982.19	.	.	.V.Q	.		.
20.917	1563.7781	1926.99	.	.	.Q	.		.
21.000	1576.4762	1843.77	.	.	.QV	.		.
21.083	1588.9790	1815.41	.	.	.QV	.		.
21.167	1601.3062	1789.91	.	.	.Q V	.		.
21.250	1613.4594	1764.64	.	.	.Q V	.		.
21.333	1625.4519	1741.31	.	.	.Q .V	.		.
21.417	1637.1473	1698.17	.	.	.Q .V	.		.
21.500	1648.5635	1657.62	.	.	.Q .V	.		.
21.583	1659.6713	1612.85	.	.	.Q .V	.		.
21.667	1670.5135	1574.29	.	.	.Q Q	.	.	.
21.750	1681.0863	1535.17	.	.	.Q	.	.	.
21.833	1691.3129	1484.89	.	.	.Q	.	.	.
21.917	1701.3481	1457.12	.	.	.Q	.	.	.
22.000	1711.0834	1413.56	.	.	.Q	.	.	.
22.083	1720.5157	1369.58	.	.	.Q	.	.	.
22.167	1729.7344	1338.54	.	.	.Q	.	.	.
22.250	1738.7539	1309.64	.	.	.Q	.	.	.
22.333	1747.5359	1275.14	.	.	.Q	.	.	.
22.417	1756.1338	1248.42	.	.	.Q.	.	.	.
22.500	1764.5509	1222.16	.	.	.Q.	.	.	.
22.583	1772.7850	1195.59	.	.	.Q.	.	.	.
22.667	1780.8086	1165.02	.	.	.Q	.	.	.
22.750	1788.6484	1138.35	.	.	.Q	.	.	.
22.833	1796.3275	1115.00	.	.	.Q	.	.	.
22.917	1803.8545	1092.92	.	.	.Q	.	.	.
23.000	1811.1857	1064.48	.	.	.Q	.	.	.
23.083	1818.2537	1026.27	.	.	.Q	.	.	.
23.167	1825.1954	1007.94	.	.	.Q	.	.	.
23.250	1832.0173	990.54	.	.	.Q	.	.	.

23.333	1838.7213	973.42	.	.	.Q	.	.	V	.
23.417	1845.3021	955.54	.	.	.Q	.	.	V	.
23.500	1851.7570	937.24	.	.	.Q	.	.	V	.
23.583	1858.0123	908.28	.	.	.Q	.	.	V	.
23.667	1864.0756	880.37	.	.	.Q	.	.	V	.
23.750	1870.0314	864.79	.	.	.Q	.	.	V	.
23.833	1875.8934	851.17	.	.	.Q	.	.	V	.
23.917	1881.6641	837.90	.	.	.Q	.	.	V	.
24.000	1887.3459	825.01	.	.	.Q	.	.	V	.
24.083	1892.9449	812.98	.	.	.Q	.	.	V	.
24.167	1898.4574	800.41	.	.	.Q	.	.	V	.
24.250	1903.8870	788.37	.	.	.Q	.	.	V	.
24.333	1909.2292	775.70	.	.	.Q	.	.	V	.
24.417	1914.4800	762.41	.	.	.Q	.	.	V	.
24.500	1919.5341	733.85	.	.	.Q	.	.	V	.
24.583	1924.4198	709.41	.	.	.Q	.	.	V	.
24.667	1929.2303	698.49	.	.	.Q	.	.	V	.
24.750	1933.9658	687.58	.	.	.Q	.	.	V	.
24.833	1938.6235	676.30	.	.	.Q	.	.	V	.
24.917	1943.1993	664.41	.	.	.Q	.	.	V	.
25.000	1947.6963	652.96	.	.	.Q	.	.	V	.
25.083	1952.1174	641.96	.	.	.Q	.	.	V	.
25.167	1956.4569	630.09	.	.	.Q	.	.	V	.
25.250	1960.7129	617.98	.	.	.Q.	.	.	V	.
25.333	1964.8839	605.64	.	.	.Q.	.	.	V	.
25.417	1968.9662	592.75	.	.	.Q.	.	.	V	.
25.500	1972.9619	580.18	.	.	.Q.	.	.	V	.
25.583	1976.8733	567.94	.	.	.Q.	.	.	V	.
25.667	1980.7069	556.64	.	.	.Q.	.	.	V	.
25.750	1984.4612	545.12	.	.	.Q.	.	.	V	.
25.833	1988.1406	534.25	.	.	.Q.	.	.	V	.
25.917	1991.7388	522.45	.	.	.Q.	.	.	V	.
26.000	1995.2478	509.51	.	.	.Q.	.	.	V	.
26.083	1998.6780	498.07	.	.	.Q	.	.	V	.
26.167	2002.0347	487.39	.	.	.Q	.	.	V	.
26.250	2005.3164	476.51	.	.	.Q	.	.	V	.
26.333	2008.5150	464.44	.	.	.Q	.	.	V	.
26.417	2011.6243	451.47	.	.	.Q	.	.	V	.
26.500	2014.6533	439.81	.	.	.Q	.	.	V	.
26.583	2017.6136	429.84	.	.	.Q	.	.	V	.
26.667	2020.5060	419.97	.	.	.Q	.	.	V	.
26.750	2023.3218	408.86	.	.	.Q	.	.	V	.
26.833	2026.0602	397.62	.	.	.Q	.	.	V	.
26.917	2028.7201	386.21	.	.	.Q	.	.	V	.
27.000	2031.2913	373.34	.	.	.Q	.	.	V	.
27.083	2033.7886	362.61	.	.	.Q	.	.	V	.
27.167	2036.2242	353.66	.	.	.Q	.	.	V	.
27.250	2038.5702	340.63	.	.	.Q	.	.	V	.
27.333	2040.8313	328.31	.	.	.Q	.	.	V	.
27.417	2043.0071	315.93	.	.	.Q	.	.	V	.
27.500	2045.0996	303.83	.	.	.Q	.	.	V	.
27.583	2047.0977	290.12	.	.	.Q	.	.	V	.
27.667	2049.0127	278.07	.	.	.Q	.	.	V	.
27.750	2050.8621	268.53	.	.	.Q	.	.	V	.
27.833	2052.6470	259.17	.	.	.Q	.	.	V	.
27.917	2054.3699	250.18	.	.	.Q	.	.	V	.
28.000	2056.0249	240.30	.	.	.Q	.	.	V	.
28.083	2057.6050	229.43	.	.	.Q	.	.	V	.

28.167	2059.0986	216.86	. Q	.	.	.	V.
28.250	2060.5178	206.05	. Q	.	.	.	V.
28.333	2061.8291	190.39	. Q	.	.	.	V.
28.417	2063.0662	179.62	. Q	.	.	.	V.
28.500	2064.2402	170.46	. Q	.	.	.	V.
28.583	2065.3545	161.79	. Q	.	.	.	V.
28.667	2066.4155	154.07	. Q	.	.	.	V.
28.750	2067.4192	145.75	. Q	.	.	.	V.
28.833	2068.3669	137.61	. Q	.	.	.	V.
28.917	2069.2634	130.17	. Q	.	.	.	V.
29.000	2070.1169	123.93	.Q	.	.	.	V.
29.083	2070.9280	117.75	.Q	.	.	.	V.
29.167	2071.6965	111.59	.Q	.	.	.	V.
29.250	2072.4221	105.34	.Q	.	.	.	V.
29.333	2073.1057	99.24	.Q	.	.	.	V.
29.417	2073.7502	93.58	.Q	.	.	.	V.
29.500	2074.3574	88.17	.Q	.	.	.	V.
29.583	2074.9292	83.04	.Q	.	.	.	V.
29.667	2075.4673	78.12	.Q	.	.	.	V.
29.750	2075.9734	73.50	.Q	.	.	.	V.
29.833	2076.4514	69.40	.Q	.	.	.	V.
29.917	2076.9014	65.35	.Q	.	.	.	V.
30.000	2077.3264	61.70	Q	.	.	.	V.
30.083	2077.7290	58.46	Q	.	.	.	V.
30.167	2078.1094	55.23	Q	.	.	.	V.
30.250	2078.4678	52.05	Q	.	.	.	V.
30.333	2078.8074	49.31	Q	.	.	.	V.
30.417	2079.1294	46.74	Q	.	.	.	V.
30.500	2079.4338	44.19	Q	.	.	.	V.
30.583	2079.7209	41.68	Q	.	.	.	V.
30.667	2079.9917	39.32	Q	.	.	.	V.
30.750	2080.2468	37.05	Q	.	.	.	V.
30.833	2080.4863	34.79	Q	.	.	.	V.
30.917	2080.7104	32.55	Q	.	.	.	V.
31.000	2080.9207	30.52	Q	.	.	.	V.
31.083	2081.1201	28.95	Q	.	.	.	V.
31.167	2081.3088	27.41	Q	.	.	.	V.
31.250	2081.4871	25.89	Q	.	.	.	V.
31.333	2081.6550	24.38	Q	.	.	.	V.
31.417	2081.8125	22.88	Q	.	.	.	V.
31.500	2081.9597	21.39	Q	.	.	.	V.
31.583	2082.0986	20.16	Q	.	.	.	V.
31.667	2082.2310	19.20	Q	.	.	.	V.
31.750	2082.3567	18.24	Q	.	.	.	V.
31.833	2082.4758	17.29	Q	.	.	.	V.
31.917	2082.5884	16.35	Q	.	.	.	V.
32.000	2082.6946	15.42	Q	.	.	.	V.
32.083	2082.7944	14.49	Q	.	.	.	V.
32.167	2082.8879	13.57	Q	.	.	.	V.
32.250	2082.9751	12.66	Q	.	.	.	V.
32.333	2083.0562	11.75	Q	.	.	.	V.
32.417	2083.1309	10.85	Q	.	.	.	V.
32.500	2083.2019	10.30	Q	.	.	.	V.
32.583	2083.2710	10.02	Q	.	.	.	V.
32.667	2083.3381	9.75	Q	.	.	.	V.
32.750	2083.4036	9.48	Q	.	.	.	V.
32.833	2083.4670	9.22	Q	.	.	.	V.
32.917	2083.5288	8.96	Q	.	.	.	V.

33.000	2083.5886	8.69	Q	.	.	.	V.
33.083	2083.6467	8.44	Q	.	.	.	V.
33.167	2083.7031	8.18	Q	.	.	.	V.
33.250	2083.7578	7.93	Q	.	.	.	V.
33.333	2083.8108	7.68	Q	.	.	.	V.
33.417	2083.8621	7.43	Q	.	.	.	V.
33.500	2083.9116	7.18	Q	.	.	.	V.
33.583	2083.9595	6.94	Q	.	.	.	V.
33.667	2084.0056	6.69	Q	.	.	.	V.
33.750	2084.0500	6.46	Q	.	.	.	V.
33.833	2084.0928	6.22	Q	.	.	.	V.
33.917	2084.1340	5.98	Q	.	.	.	V.
34.000	2084.1736	5.75	Q	.	.	.	V.
34.083	2084.2117	5.52	Q	.	.	.	V.
34.167	2084.2480	5.29	Q	.	.	.	V.
34.250	2084.2830	5.06	Q	.	.	.	V.
34.333	2084.3162	4.84	Q	.	.	.	V.
34.417	2084.3479	4.61	Q	.	.	.	V.
34.500	2084.3782	4.39	Q	.	.	.	V.
34.583	2084.4067	4.16	Q	.	.	.	V.
34.667	2084.4338	3.95	Q	.	.	.	V.
34.750	2084.4595	3.73	Q	.	.	.	V.
34.833	2084.4836	3.51	Q	.	.	.	V.
34.917	2084.5063	3.30	Q	.	.	.	V.
35.000	2084.5276	3.08	Q	.	.	.	V.
35.083	2084.5474	2.87	Q	.	.	.	V.
35.167	2084.5657	2.66	Q	.	.	.	V.
35.250	2084.5825	2.45	Q	.	.	.	V.
35.333	2084.5979	2.25	Q	.	.	.	V.
35.417	2084.6121	2.04	Q	.	.	.	V.
35.500	2084.6248	1.84	Q	.	.	.	V.
35.583	2084.6360	1.63	Q	.	.	.	V.
35.667	2084.6458	1.43	Q	.	.	.	V.
35.750	2084.6543	1.23	Q	.	.	.	V.
35.833	2084.6614	1.03	Q	.	.	.	V.
35.917	2084.6670	0.83	Q	.	.	.	V.
36.000	2084.6714	0.63	Q	.	.	.	V.

-----  
TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
(Note: 100% of Peak Flow Rate estimate assumed to have  
an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
0%	2165.0
10%	1450.0
20%	1120.0
30%	695.0
40%	540.0
50%	435.0
60%	355.0
70%	290.0
80%	225.0
90%	145.0

=====

END OF FLOODSCx ROUTING ANALYSIS



\*\*\*\*\*

FLOOD ROUTING ANALYSIS
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)
(c) Copyright 1989-2013 Advanced Engineering Software (aes)
Ver. 20.0 Release Date: 06/01/2013 License ID 1237

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*
\* RMV PA-3 ROMP AMENDMENT 2022 - NODE 137 \*
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*
\* 5-YR EV OCT 2022 ROKAMOTO \*

FILE NAME: EV05137S.DAT
TIME/DATE OF STUDY: 11:39 10/25/2022

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 137.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<

\*\*\*\*\*

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 67799.000 ACRES
BASEFLOW = 0.000 CFS/SQUARE-MILE
\*USER ENTERED "LAG" TIME = 3.950 HOURS
VALLEY (DEVELOPED) S-GRAPH SELECTED
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.471
LOW LOSS FRACTION = 0.823
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.22
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.44
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 0.60
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 1.09
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 1.59
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 2.78

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:
5-MINUTE FACTOR = 0.291
30-MINUTE FACTOR = 0.350
1-HOUR FACTOR = 0.394
3-HOUR FACTOR = 0.738
6-HOUR FACTOR = 0.886
24-HOUR FACTOR = 0.933

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 2.110

UNIT HYDROGRAPH DETERMINATION

Table with 3 columns: INTERVAL NUMBER, "S" GRAPH MEAN VALUES, UNIT HYDROGRAPH ORDINATES (CFS). Rows 1-48.

49	51.688	13272.170
50	53.222	12580.479
51	54.693	12063.354
52	56.146	11908.683
53	57.822	13741.408
54	59.689	15309.863
55	61.900	18131.799
56	63.741	15096.357
57	65.270	12531.592
58	66.691	11658.706
59	68.123	11742.156
60	69.779	13571.566
61	71.100	10837.836
62	72.373	10437.473
63	73.740	11206.107
64	75.056	10792.295
65	76.247	9761.922
66	77.194	7765.485
67	78.132	7687.665
68	79.069	7687.665
69	80.014	7746.468
70	81.000	8086.214
71	81.980	8034.979
72	82.882	7395.399
73	83.768	7262.591
74	84.596	6790.037
75	85.399	6588.917
76	86.159	6232.093
77	86.813	5361.053
78	87.462	5323.144
79	88.077	5040.324
80	88.582	4137.067
81	89.078	4070.632
82	89.575	4070.569
83	90.060	3981.426
84	90.508	3670.206
85	90.952	3641.743
86	91.396	3639.803
87	91.840	3641.743
88	92.257	3419.666
89	92.659	3296.367
90	93.061	3294.427
91	93.463	3298.243
92	93.863	3275.473
93	94.178	2584.721
94	94.446	2197.557
95	94.713	2193.741
96	94.981	2197.557
97	95.249	2197.619
98	95.517	2193.741
99	95.785	2201.373
100	96.028	1988.805
101	96.198	1396.705
102	96.364	1354.980
103	96.529	1358.796
104	96.695	1354.980
105	96.860	1358.733
106	97.026	1354.980

107	97.191	1358.796
108	97.357	1354.980
109	97.522	1358.733
110	97.688	1354.980
111	97.853	1358.796
112	97.995	1161.366
113	98.044	402.303
114	98.083	318.852
115	98.124	333.991
116	98.163	322.605
117	98.203	326.421
118	98.242	318.789
119	98.281	326.421
120	98.322	330.237
121	98.361	318.789
122	98.400	322.605
123	98.440	326.421
124	98.480	326.421
125	98.519	322.605
126	98.558	322.605
127	98.598	326.421
128	98.638	326.421
129	98.677	322.605
130	98.717	326.421
131	98.756	318.789
132	98.796	326.421
133	98.835	326.421
134	98.874	318.789
135	98.915	333.991
136	98.954	318.852
137	98.993	318.789
138	99.034	333.991
139	99.072	318.789
140	99.111	318.789
141	99.150	318.789
142	99.189	318.789
143	99.228	318.789
144	99.267	318.789
145	99.306	318.789
146	99.345	318.789
147	99.384	318.789
148	99.422	318.789
149	99.461	318.789
150	99.500	318.789
151	99.539	318.789
152	99.578	318.789
153	99.617	318.789
154	99.656	318.789
155	99.695	318.789
156	99.733	318.789
157	99.772	318.789
158	99.811	318.789
159	99.850	318.789
160	99.889	318.789
161	99.928	318.789
162	99.967	318.789
163	100.000	273.060

-----  
TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 11981.3936  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 2660.4956  
-----

=====

2 4 - 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 FIVE-MINUTE UNIT INTERVALS (CFS)  
(Note: Time indicated is at END of Each Unit Intervals)

TIME (HRS)	VOLUME (AF)	Q (CFS)	0.	750.0	1500.0	2250.0	3000.0
0.083	0.0048	0.69	Q	.	.	.	.
0.167	0.0190	2.07	Q	.	.	.	.
0.250	0.0429	3.46	Q	.	.	.	.
0.333	0.0763	4.85	Q	.	.	.	.
0.417	0.1193	6.24	Q	.	.	.	.
0.500	0.1719	7.64	Q	.	.	.	.
0.583	0.2342	9.05	Q	.	.	.	.
0.667	0.3062	10.45	Q	.	.	.	.
0.750	0.3891	12.04	Q	.	.	.	.
0.833	0.4866	14.15	Q	.	.	.	.
0.917	0.5988	16.29	Q	.	.	.	.
1.000	0.7258	18.44	Q	.	.	.	.
1.083	0.8676	20.60	Q	.	.	.	.
1.167	1.0248	22.82	Q	.	.	.	.
1.250	1.2056	26.26	Q	.	.	.	.
1.333	1.4136	30.20	Q	.	.	.	.
1.417	1.6492	34.21	Q	.	.	.	.
1.500	1.9185	39.10	Q	.	.	.	.
1.583	2.2236	44.30	Q	.	.	.	.
1.667	2.5697	50.25	Q	.	.	.	.
1.750	2.9611	56.83	Q	.	.	.	.
1.833	3.3960	63.15	Q	.	.	.	.
1.917	3.8739	69.38	Q	.	.	.	.
2.000	4.3948	75.64	VQ	.	.	.	.
2.083	4.9616	82.31	VQ	.	.	.	.
2.167	5.5924	91.58	VQ	.	.	.	.
2.250	6.2750	99.13	VQ	.	.	.	.
2.333	7.0042	105.87	VQ	.	.	.	.
2.417	7.7799	112.64	VQ	.	.	.	.
2.500	8.6054	119.86	VQ	.	.	.	.
2.583	9.4891	128.30	VQ	.	.	.	.
2.667	10.4392	137.96	VQ	.	.	.	.
2.750	11.4471	146.35	VQ	.	.	.	.
2.833	12.5057	153.71	V Q	.	.	.	.
2.917	13.6151	161.09	V Q	.	.	.	.
3.000	14.7817	169.39	V Q	.	.	.	.
3.083	16.0160	179.22	V Q	.	.	.	.
3.167	17.3110	188.03	V Q	.	.	.	.
3.250	18.6838	199.34	V Q	.	.	.	.
3.333	20.1322	210.30	V Q	.	.	.	.
3.417	21.6391	218.81	V Q	.	.	.	.
3.500	23.1977	226.30	V Q	.	.	.	.
3.583	24.8447	239.15	V Q	.	.	.	.
3.667	26.5713	250.70	V Q	.	.	.	.
3.750	28.3798	262.60	V Q	.	.	.	.
3.833	30.2680	274.16	V Q	.	.	.	.
3.917	32.2456	287.16	V Q	.	.	.	.

4.000	34.3210	301.34	V	Q	.	.	.	.
4.083	36.4669	311.59	V	Q	.	.	.	.
4.167	38.6802	321.38	V	Q	.	.	.	.
4.250	40.9588	330.84	V	Q	.	.	.	.
4.333	43.3020	340.23	V	Q	.	.	.	.
4.417	45.7189	350.94	V	Q	.	.	.	.
4.500	48.2174	362.78	V	Q	.	.	.	.
4.583	50.8113	376.64	V	Q	.	.	.	.
4.667	53.4864	388.41	V	Q	.	.	.	.
4.750	56.2305	398.45	V	Q	.	.	.	.
4.833	59.0398	407.91	V	Q	.	.	.	.
4.917	61.9149	417.47	V	Q	.	.	.	.
5.000	64.8648	428.33	V	Q	.	.	.	.
5.083	67.8768	437.34	.V	Q	.	.	.	.
5.167	70.9490	446.09	.V	Q	.	.	.	.
5.250	74.0856	455.43	.V	Q	.	.	.	.
5.333	77.2846	464.50	.V	Q	.	.	.	.
5.417	80.5415	472.90	.V	Q	.	.	.	.
5.500	83.8469	479.94	.V	Q	.	.	.	.
5.583	87.2006	486.95	.V	Q	.	.	.	.
5.667	90.6028	494.00	.V	Q	.	.	.	.
5.750	94.0540	501.12	.V	Q	.	.	.	.
5.833	97.5562	508.51	.V	Q	.	.	.	.
5.917	101.1092	515.90	.V	Q	.	.	.	.
6.000	104.7102	522.87	.V	Q	.	.	.	.
6.083	108.3589	529.79	.V	Q	.	.	.	.
6.167	112.0532	536.41	.V	Q	.	.	.	.
6.250	115.7923	542.92	.V	Q	.	.	.	.
6.333	119.5748	549.22	.V	Q	.	.	.	.
6.417	123.3967	554.94	.V	Q	.	.	.	.
6.500	127.2580	560.66	.V	Q	.	.	.	.
6.583	131.1576	566.22	.V	Q	.	.	.	.
6.667	135.0913	571.18	.V	Q	.	.	.	.
6.750	139.0591	576.12	.V	Q	.	.	.	.
6.833	143.0611	581.09	.V	Q	.	.	.	.
6.917	147.0972	586.04	.V	Q	.	.	.	.
7.000	151.1660	590.79	.V	Q	.	.	.	.
7.083	155.2677	595.56	.V	Q	.	.	.	.
7.167	159.4024	600.36	.V	Q	.	.	.	.
7.250	163.5703	605.19	.V	Q	.	.	.	.
7.333	167.7707	609.89	.V	Q	.	.	.	.
7.417	172.0031	614.55	.V	Q	.	.	.	.
7.500	176.2678	619.23	.V	Q	.	.	.	.
7.583	180.5650	623.95	.V	Q	.	.	.	.
7.667	184.8948	628.69	.V	Q	.	.	.	.
7.750	189.2542	632.98	.V	Q	.	.	.	.
7.833	193.6414	637.03	.V	Q	.	.	.	.
7.917	198.0568	641.12	.V	Q	.	.	.	.
8.000	202.5006	645.23	.V	Q	.	.	.	.
8.083	206.9730	649.39	.V	Q	.	.	.	.
8.167	211.4742	653.58	.V	Q	.	.	.	.
8.250	216.0046	657.81	.V	Q	.	.	.	.
8.333	220.5632	661.92	.V	Q	.	.	.	.
8.417	225.1477	665.66	.V	Q	.	.	.	.
8.500	229.7579	669.40	.V	Q	.	.	.	.
8.583	234.3942	673.19	.V	Q	.	.	.	.
8.667	239.0567	677.01	.V	Q	.	.	.	.
8.750	243.7459	680.87	.V	Q	.	.	.	.

8.833	248.4619	684.76	.V	Q.	.	.	.	.
8.917	253.2050	688.70	.V	Q.	.	.	.	.
9.000	257.9755	692.68	.V	Q.	.	.	.	.
9.083	262.7737	696.70	.V	Q.	.	.	.	.
9.167	267.5999	700.75	.V	Q.	.	.	.	.
9.250	272.4543	704.86	.V	Q.	.	.	.	.
9.333	277.3363	708.87	.V	Q.	.	.	.	.
9.417	282.2426	712.40	.V	Q.	.	.	.	.
9.500	287.1731	715.90	.V	Q.	.	.	.	.
9.583	292.1282	719.47	.V	Q.	.	.	.	.
9.667	297.1080	723.07	.V	Q.	.	.	.	.
9.750	302.1130	726.73	.V	Q.	.	.	.	.
9.833	307.1435	730.42	.V	Q.	.	.	.	.
9.917	312.1997	734.17	.V	Q.	.	.	.	.
10.000	317.2822	737.97	.V	Q.	.	.	.	.
10.083	322.3911	741.82	.V	Q.	.	.	.	.
10.167	327.5269	745.71	.V	Q.	.	.	.	.
10.250	332.6899	749.67	.V	Q.	.	.	.	.
10.333	337.8806	753.68	.V	Q	.	.	.	.
10.417	343.0992	757.75	.V	Q	.	.	.	.
10.500	348.3463	761.87	.V	Q	.	.	.	.
10.583	353.6221	766.05	.V	Q	.	.	.	.
10.667	358.9272	770.29	.V	Q	.	.	.	.
10.750	364.2619	774.60	.V	Q	.	.	.	.
10.833	369.6267	778.97	.V	Q	.	.	.	.
10.917	375.0220	783.40	.V	Q	.	.	.	.
11.000	380.4484	787.90	.V	Q	.	.	.	.
11.083	385.9062	792.48	.V	Q	.	.	.	.
11.167	391.3960	797.11	.V	Q	.	.	.	.
11.250	396.9183	801.84	.V	Q	.	.	.	.
11.333	402.4736	806.62	.V	Q	.	.	.	.
11.417	408.0624	811.49	.V	Q	.	.	.	.
11.500	413.6852	816.44	.V	Q	.	.	.	.
11.583	419.3428	821.47	.V	Q	.	.	.	.
11.667	425.0355	826.58	.V	.Q	.	.	.	.
11.750	430.7640	831.78	.V	.Q	.	.	.	.
11.833	436.5288	837.06	.V	.Q	.	.	.	.
11.917	442.3308	842.44	.V	.Q	.	.	.	.
12.000	448.1704	847.91	.V	.Q	.	.	.	.
12.083	454.0573	854.78	.V	.Q	.	.	.	.
12.167	460.0010	863.02	.V	.Q	.	.	.	.
12.250	466.0021	871.36	.V	.Q	.	.	.	.
12.333	472.0612	879.78	.V	.Q	.	.	.	.
12.417	478.1790	888.31	.V	.Q	.	.	.	.
12.500	484.3563	896.93	.V	.Q	.	.	.	.
12.583	490.5936	905.67	.V	.Q	.	.	.	.
12.667	496.8918	914.50	.V	.Q	.	.	.	.
12.750	503.2539	923.78	.V	.Q	.	.	.	.
12.833	509.6873	934.12	.V	.Q	.	.	.	.
12.917	516.1930	944.64	.V	.Q	.	.	.	.
13.000	522.7719	955.26	.V	.Q	.	.	.	.
13.083	529.4249	966.01	.V	.Q	.	.	.	.
13.167	536.1534	976.98	.V	.Q	.	.	.	.
13.250	542.9740	990.36	.V	.Q	.	.	.	.
13.333	549.8939	1004.76	.V	.Q	.	.	.	.
13.417	556.9145	1019.39	.V	.Q	.	.	.	.
13.500	564.0477	1035.74	.V	.Q	.	.	.	.
13.583	571.2982	1052.77	.V	.Q	.	.	.	.



13.667	578.6748	1071.08	.	V	.	Q	.	.	.	.
13.750	586.1862	1090.66	.	V	.	Q	.	.	.	.
13.833	593.8296	1109.82	.	V	.	Q	.	.	.	.
13.917	601.6045	1128.92	.	V	.	Q	.	.	.	.
14.000	609.5117	1148.13	.	V	.	Q	.	.	.	.
14.083	617.5654	1169.40	.	V	.	Q	.	.	.	.
14.167	625.8075	1196.75	.	V	.	Q	.	.	.	.
14.250	634.2156	1220.86	.	V	.	Q	.	.	.	.
14.333	642.7794	1243.45	.	V	.	Q	.	.	.	.
14.417	651.4992	1266.13	.	V	.	Q	.	.	.	.
14.500	660.3809	1289.62	.	V	.	Q	.	.	.	.
14.583	669.4404	1315.44	.	V	.	Q	.	.	.	.
14.667	678.6931	1343.49	.	V	.	Q	.	.	.	.
14.750	688.1249	1369.49	.	V	.	Q	.	.	.	.
14.833	697.7280	1394.37	.	V	.	Q	.	.	.	.
14.917	707.5032	1419.36	.	V	.	Q	.	.	.	.
15.000	717.4618	1445.99	.	V	.	Q	.	.	.	.
15.083	727.6235	1475.48	.	V	.	Q	.	.	.	.
15.167	737.9750	1503.04	.	.V	.	Q	.	.	.	.
15.250	748.5623	1537.28	.	.V	.	Q	.	.	.	.
15.333	759.3854	1571.52	.	.V	.	Q	.	.	.	.
15.417	770.4009	1599.45	.	.V	.	Q	.	.	.	.
15.500	781.5938	1625.19	.	.V	.	Q	.	.	.	.
15.583	793.0374	1661.61	.	.V	.	Q	.	.	.	.
15.667	804.7241	1696.92	.	.V	.	Q	.	.	.	.
15.750	816.6627	1733.49	.	.V	.	Q	.	.	.	.
15.833	828.8431	1768.59	.	.V	.	Q	.	.	.	.
15.917	841.2881	1807.01	.	.V	.	Q	.	.	.	.
16.000	854.0241	1849.27	.	.V	.	Q	.	.	.	.
16.083	867.1360	1903.84	.	.V	.	Q	.	.	.	.
16.167	880.6263	1958.79	.	.V	.	Q	.	.	.	.
16.250	894.3265	1989.27	.	.V	.	Q	.	.	.	.
16.333	908.2203	2017.38	.	.V	.	Q	.	.	.	.
16.417	922.3309	2048.86	.	.V	.	Q	.	.	.	.
16.500	936.6838	2084.05	.	.V	.	Q	.	.	.	.
16.583	951.3010	2122.42	.	.V	.	Q	.	.	.	.
16.667	966.1663	2158.44	.	.V	.	Q	.	.	.	.
16.750	981.2815	2194.73	.	.V	.	Q	.	.	.	.
16.833	996.6715	2234.63	.	.V	.	Q	.	.	.	.
16.917	1012.2325	2259.45	.	.V	.	Q	.	.	.	.
17.000	1027.9741	2285.68	.	.V	.	Q	.	.	.	.
17.083	1043.8867	2310.52	.	.V	.	Q	.	.	.	.
17.167	1059.9836	2337.27	.	.V	.	Q	.	.	.	.
17.250	1076.5266	2402.04	.	.V	.	Q	.	.	.	.
17.333	1093.3562	2443.66	.	.V	.	Q	.	.	.	.
17.417	1110.3447	2466.74	.	.V	.	Q	.	.	.	.
17.500	1127.5764	2502.03	.	.V	.	Q	.	.	.	.
17.583	1145.0562	2538.06	.	.V	.	Q	.	.	.	.
17.667	1162.8682	2586.30	.	.V	.	Q	.	.	.	.
17.750	1180.9697	2628.35	.	.V	.	Q	.	.	.	.
17.833	1199.1688	2642.52	.	.V	.	Q	.	.	.	.
17.917	1217.5104	2663.20	.	.V	.	Q	.	.	.	.
18.000	1236.0408	2690.61	.	.V	.	Q	.	.	.	.
18.083	1254.8208	2726.87	.	.V	.	Q	.	.	.	.
18.167	1274.2227	2817.16	.	.V	.	Q	.	.	.	.
18.250	1293.3564	2778.22	.	.V	.	Q	.	.	.	.
18.333	1312.3933	2764.16	.	.V	.	Q	.	.	.	.
18.417	1331.5004	2774.35	.	.V	.	Q	.	.	.	.

18.500	1350.8486	2809.38	.	.V	.	.	Q	.	.	.
18.583	1370.5284	2857.51	.	.V	.	.	Q	.	.	.
18.667	1390.4436	2891.69	.	.V	.	.	Q	.	.	.
18.750	1410.1027	2854.49	.	.V	.	.	Q	.	.	.
18.833	1429.5883	2829.31	.	.V	.	.	Q	.	.	.
18.917	1449.0485	2825.62	.	.V	.	.	Q	.	.	.
19.000	1468.7216	2856.53	.	.V	.	.	Q	.	.	.
19.083	1488.6830	2898.40	.	.V	.	.	Q	.	.	.
19.167	1508.4070	2863.92	.	.V	.	.	Q	.	.	.
19.250	1528.5018	2917.77	.	.V	.	.	Q	.	.	.
19.333	1548.3665	2884.34	.	.V	.	.	Q	.	.	.
19.417	1567.7247	2810.82	.	.V	.	.	Q	.	.	.
19.500	1586.8828	2781.76	.	.V	.	.	Q	.	.	.
19.583	1607.0563	2929.18	.	.V	.	.	Q	.	.	.
19.667	1626.8936	2880.38	.	.V	.	.	Q	.	.	.
19.750	1646.6771	2872.58	.	.V	.	.	Q	.	.	.
19.833	1666.2559	2842.83	.	.V	.	.	Q	.	.	.
19.917	1685.9972	2866.45	.	.V	.	.	Q	.	.	.
20.000	1705.7938	2874.47	.	.V	.	.	Q	.	.	.
20.083	1724.6658	2740.20	.	.V	.	.	Q	.	.	.
20.167	1743.2988	2705.52	.	.V	.	.	Q	.	.	.
20.250	1761.7393	2677.56	.	.V	.	.	Q	.	.	.
20.333	1780.0917	2664.78	.	.V	.	.	Q	.	.	.
20.417	1798.6387	2693.03	.	.V	.	.	Q	.	.	.
20.500	1817.3297	2713.94	.	.V	.	.	Q	.	.	.
20.583	1836.1708	2735.73	.	.V	.	.	Q	.	.	.
20.667	1854.3207	2635.37	.	.V	.	.	Q	.	.	.
20.750	1871.9103	2554.01	.	.V	.	.	Q	.	.	.
20.833	1889.2487	2517.52	.	.V	.	.	Q	.	.	.
20.917	1906.4845	2502.65	.	.V	.	.	Q	.	.	.
21.000	1923.7684	2509.63	.	.V	.	.	Q	.	.	.
21.083	1940.4849	2427.23	.	.V	.	.	Q	.	.	.
21.167	1956.9762	2394.54	.	.V	.	.	Q	.	.	.
21.250	1973.3583	2378.67	.	.V	.	.	Q	.	.	.
21.333	1989.4836	2341.41	.	.V	.	.	Q	.	.	.
21.417	2005.2434	2288.32	.	.V	.	.	Q	.	.	.
21.500	2020.5183	2217.92	.	.V	.	.	Q	.	.	.
21.583	2035.4985	2175.12	.	.V	.	.	Q	.	.	.
21.667	2050.2400	2140.47	.	.V	.	.	Q	.	.	.
21.750	2064.7644	2108.94	.	.V	.	.	Q	.	.	.
21.833	2079.0898	2080.05	.	.V	.	.	Q	.	.	.
21.917	2093.1355	2039.42	.	.V	.	.	Q	.	.	.
22.000	2106.7981	1983.79	.	.V	.	.	Q	.	.	.
22.083	2120.2175	1948.49	.	.V	.	.	Q	.	.	.
22.167	2133.3572	1907.89	.	.V	.	.	Q	.	.	.
22.250	2146.2498	1872.00	.	.V	.	.	Q	.	.	.
22.333	2158.8713	1832.67	.	.V	.	.	Q	.	.	.
22.417	2171.1418	1781.67	.	.V	.	.	Q	.	.	.
22.500	2183.1689	1746.33	.	.V	.	.	Q	.	.	.
22.583	2194.8894	1701.81	.	.V	.	.	Q	.	.	.
22.667	2206.2537	1650.09	.	.V	.	.	Q	.	.	.
22.750	2217.3953	1617.77	.	.V	.	.	Q	.	.	.
22.833	2228.3269	1587.28	.	.V	.	.	Q	.	.	.
22.917	2239.0327	1554.48	.	.V	.	.	Q	.	.	.
23.000	2249.4641	1514.65	.	.V	.	.	Q	.	.	.
23.083	2259.6938	1485.35	.	.V	.	.	Q	.	.	.
23.167	2269.7354	1458.04	.	.V	.	.	Q	.	.	.
23.250	2279.5806	1429.51	.	.V	.	.	Q	.	.	.

23.333	2289.1995	1396.67	.	.	Q	.	V	.
23.417	2298.6184	1367.65	.	.	Q	.	V	.
23.500	2307.8730	1343.77	.	.	Q	.	V	.
23.583	2316.9636	1319.95	.	.	Q	.	V	.
23.667	2325.8879	1295.82	.	.	Q	.	V	.
23.750	2334.5632	1259.66	.	.	Q	.	V	.
23.833	2343.0347	1230.07	.	.	Q	.	V	.
23.917	2351.3591	1208.70	.	.	Q	.	V	.
24.000	2359.5486	1189.11	.	.	Q	.	V	.
24.083	2367.5950	1168.34	.	.	Q	.	V	.
24.167	2375.4919	1146.63	.	.	Q	.	V	.
24.250	2383.2380	1124.72	.	.	Q	.	V	.
24.333	2390.8054	1098.79	.	.	Q	.	V	.
24.417	2398.1565	1067.38	.	.	Q	.	V	.
24.500	2405.3713	1047.59	.	.	Q	.	V	.
24.583	2412.4612	1029.44	.	.	Q	.	V	.
24.667	2419.4358	1012.72	.	.	Q	.	V	.
24.750	2426.3047	997.37	.	.	Q	.	V	.
24.833	2433.0671	981.91	.	.	Q	.	V	.
24.917	2439.7241	966.60	.	.	Q	.	V	.
25.000	2446.2781	951.65	.	.	Q	.	V	.
25.083	2452.7322	937.15	.	.	Q	.	V	.
25.167	2459.0835	922.22	.	.	Q	.	V	.
25.250	2465.3191	905.42	.	.	Q	.	V	.
25.333	2471.4077	884.05	.	.	Q	.	V	.
25.417	2477.2842	853.27	.	.	Q	.	V	.
25.500	2483.0413	835.93	.	.	Q	.	V	.
25.583	2488.6926	820.58	.	.	Q	.	V	.
25.667	2494.2285	803.81	.	.	Q	.	V	.
25.750	2499.6462	786.66	.	.	Q	.	V	.
25.833	2504.9495	770.05	.	.	Q	.	V	.
25.917	2510.1418	753.93	.	.	Q	.	V	.
26.000	2515.2231	737.80	.	.	Q	.	V	.
26.083	2520.1892	721.07	.	.	Q	.	V	.
26.167	2525.0249	702.15	.	.	Q	.	V	.
26.250	2529.7432	685.08	.	.	Q	.	V	.
26.333	2534.3530	669.36	.	.	Q	.	V	.
26.417	2538.8665	655.35	.	.	Q	.	V	.
26.500	2543.2832	641.33	.	.	Q	.	V	.
26.583	2547.5967	626.32	.	.	Q	.	V	.
26.667	2551.7996	610.26	.	.	Q	.	V	.
26.750	2555.9014	595.57	.	.	Q	.	V	.
26.833	2559.9114	582.24	.	.	Q	.	V	.
26.917	2563.8291	568.85	.	.	Q	.	V	.
27.000	2567.6514	555.00	.	.	Q	.	V	.
27.083	2571.3679	539.64	.	.	Q	.	V	.
27.167	2574.9858	525.33	.	.	Q	.	V	.
27.250	2578.4919	509.10	.	.	Q	.	V	.
27.333	2581.8877	493.06	.	.	Q	.	V	.
27.417	2585.2000	480.95	.	.	Q	.	V	.
27.500	2588.4395	470.38	.	.	Q	.	V	.
27.583	2591.5659	453.95	.	.	Q	.	V	.
27.667	2594.5891	438.97	.	.	Q	.	V	.
27.750	2597.5081	423.83	.	.	Q	.	V	.
27.833	2600.3264	409.24	.	.	Q	.	V	.
27.917	2603.0354	393.35	.	.	Q	.	V	.
28.000	2605.6279	376.45	.	.	Q	.	V	.
28.083	2608.1328	363.69	.	.	Q	.	V	.

28.167	2610.5540	351.54	.	Q	.	.	V	.
28.250	2612.8943	339.83	.	Q	.	.	V	.
28.333	2615.1558	328.36	.	Q	.	.	V	.
28.417	2617.3301	315.71	.	Q	.	.	V	.
28.500	2619.4104	302.06	.	Q	.	.	V	.
28.583	2621.3840	286.57	.	Q	.	.	V	.
28.667	2623.2664	273.31	.	Q	.	.	V	.
28.750	2625.0706	261.96	.	Q	.	.	V	.
28.833	2626.8013	251.31	.	Q	.	.	V	.
28.917	2628.4595	240.78	.	Q	.	.	V	.
29.000	2630.0400	229.50	.	Q	.	.	V	.
29.083	2631.5564	220.18	.	Q	.	.	V	.
29.167	2633.0107	211.16	.	Q	.	.	V	.
29.250	2634.3994	201.62	.	Q	.	.	V	.
29.333	2635.7253	192.53	.	Q	.	.	V	.
29.417	2636.9934	184.11	.	Q	.	.	V	.
29.500	2638.2112	176.83	.	Q	.	.	V	.
29.583	2639.3718	168.51	.	Q	.	.	V	.
29.667	2640.4463	156.00	.	Q	.	.	V	.
29.750	2641.4734	149.13	.	Q	.	.	V	.
29.833	2642.4521	142.12	.	Q	.	.	V	.
29.917	2643.3835	135.23	.	Q	.	.	V	.
30.000	2644.2681	128.42	.	Q	.	.	V	.
30.083	2645.1062	121.70	.	Q	.	.	V	.
30.167	2645.9004	115.33	.	Q	.	.	V	.
30.250	2646.6519	109.12	.	Q	.	.	V	.
30.333	2647.3623	103.16	.	Q	.	.	V	.
30.417	2648.0361	97.83	.	Q	.	.	V	.
30.500	2648.6736	92.54	.	Q	.	.	V	.
30.583	2649.2764	87.52	.	Q	.	.	V	.
30.667	2649.8513	83.47	.	Q	.	.	V	.
30.750	2650.3989	79.51	.	Q	.	.	V	.
30.833	2650.9194	75.58	.	Q	.	.	V	.
30.917	2651.4136	71.74	.	Q	.	.	V	.
31.000	2651.8831	68.16	.	Q	.	.	V	.
31.083	2652.3281	64.62	.	Q	.	.	V	.
31.167	2652.7490	61.11	.	Q	.	.	V	.
31.250	2653.1460	57.63	.	Q	.	.	V	.
31.333	2653.5203	54.33	.	Q	.	.	V	.
31.417	2653.8726	51.14	.	Q	.	.	V	.
31.500	2654.2031	47.98	.	Q	.	.	V	.
31.583	2654.5122	44.90	.	Q	.	.	V	.
31.667	2654.8030	42.21	.	Q	.	.	V	.
31.750	2655.0786	40.03	.	Q	.	.	V	.
31.833	2655.3413	38.13	.	Q	.	.	V	.
31.917	2655.5911	36.27	.	Q	.	.	V	.
32.000	2655.8281	34.41	.	Q	.	.	V	.
32.083	2656.0525	32.58	.	Q	.	.	V	.
32.167	2656.2644	30.76	.	Q	.	.	V	.
32.250	2656.4639	28.96	.	Q	.	.	V	.
32.333	2656.6521	27.32	.	Q	.	.	V	.
32.417	2656.8320	26.11	.	Q	.	.	V	.
32.500	2657.0037	24.94	.	Q	.	.	V	.
32.583	2657.1675	23.78	.	Q	.	.	V	.
32.667	2657.3232	22.63	.	Q	.	.	V	.
32.750	2657.4712	21.49	.	Q	.	.	V	.
32.833	2657.6113	20.36	.	Q	.	.	V	.
32.917	2657.7439	19.24	.	Q	.	.	V	.

33.000	2657.8689	18.14	Q	.	.	.	V.
33.083	2657.9863	17.04	Q	.	.	.	V.
33.167	2658.0962	15.95	Q	.	.	.	V.
33.250	2658.1985	14.87	Q	.	.	.	V.
33.333	2658.2944	13.93	Q	.	.	.	V.
33.417	2658.3877	13.53	Q	.	.	.	V.
33.500	2658.4785	13.20	Q	.	.	.	V.
33.583	2658.5671	12.85	Q	.	.	.	V.
33.667	2658.6533	12.52	Q	.	.	.	V.
33.750	2658.7373	12.19	Q	.	.	.	V.
33.833	2658.8191	11.87	Q	.	.	.	V.
33.917	2658.8987	11.55	Q	.	.	.	V.
34.000	2658.9761	11.23	Q	.	.	.	V.
34.083	2659.0513	10.92	Q	.	.	.	V.
34.167	2659.1243	10.61	Q	.	.	.	V.
34.250	2659.1953	10.30	Q	.	.	.	V.
34.333	2659.2642	9.99	Q	.	.	.	V.
34.417	2659.3308	9.69	Q	.	.	.	V.
34.500	2659.3955	9.40	Q	.	.	.	V.
34.583	2659.4583	9.10	Q	.	.	.	V.
34.667	2659.5188	8.80	Q	.	.	.	V.
34.750	2659.5774	8.52	Q	.	.	.	V.
34.833	2659.6340	8.23	Q	.	.	.	V.
34.917	2659.6887	7.95	Q	.	.	.	V.
35.000	2659.7415	7.66	Q	.	.	.	V.
35.083	2659.7922	7.38	Q	.	.	.	V.
35.167	2659.8411	7.11	Q	.	.	.	V.
35.250	2659.8879	6.82	Q	.	.	.	V.
35.333	2659.9331	6.55	Q	.	.	.	V.
35.417	2659.9763	6.29	Q	.	.	.	V.
35.500	2660.0178	6.01	Q	.	.	.	V.
35.583	2660.0574	5.75	Q	.	.	.	V.
35.667	2660.0952	5.49	Q	.	.	.	V.
35.750	2660.1311	5.23	Q	.	.	.	V.
35.833	2660.1653	4.97	Q	.	.	.	V.
35.917	2660.1978	4.72	Q	.	.	.	V.
36.000	2660.2285	4.46	Q	.	.	.	V.

-----

TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
 (Note: 100% of Peak Flow Rate estimate assumed to have  
 an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
0%	2165.0
10%	1475.0
20%	1195.0
30%	785.0
40%	595.0
50%	485.0
60%	400.0
70%	325.0
80%	245.0
90%	170.0

=====

END OF FLOODSCx ROUTING ANALYSIS

\*\*\*\*\*

FLOOD ROUTING ANALYSIS
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)
(c) Copyright 1989-2013 Advanced Engineering Software (aes)
Ver. 20.0 Release Date: 06/01/2013 License ID 1237

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*
\* RMV PA-3 ROMP AMENDMENT 2022 - NODE 138 \*
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*
\* 5-YR EV OCT 2022 ROKAMOTO \*

FILE NAME: EV05138S.DAT
TIME/DATE OF STUDY: 11:40 10/25/2022

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 138.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<

=====

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 69102.703 ACRES
BASEFLOW = 0.000 CFS/SQUARE-MILE
\*USER ENTERED "LAG" TIME = 4.079 HOURS
VALLEY (DEVELOPED) S-GRAPH SELECTED
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.471
LOW LOSS FRACTION = 0.822
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.22
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.44
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 0.60
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 1.09
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 1.59
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 2.77

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:
5-MINUTE FACTOR = 0.287
30-MINUTE FACTOR = 0.348
1-HOUR FACTOR = 0.392
3-HOUR FACTOR = 0.734
6-HOUR FACTOR = 0.885
24-HOUR FACTOR = 0.932

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 2.043

UNIT HYDROGRAPH DETERMINATION

Table with 3 columns: INTERVAL NUMBER, "S" GRAPH MEAN VALUES, UNIT HYDROGRAPH ORDINATES (CFS). Rows 1-48.

49	48.880	18742.412
50	50.820	16212.747
51	52.306	12417.739
52	53.784	12349.293
53	55.171	11594.314
54	56.641	12286.872
55	58.315	13983.677
56	60.204	15788.299
57	62.336	17817.643
58	64.040	14238.365
59	65.489	12109.110
60	66.855	11416.043
61	68.260	11743.576
62	69.864	13408.405
63	71.129	10574.160
64	72.362	10298.526
65	73.686	11069.445
66	74.963	10672.031
67	76.141	9841.115
68	77.067	7741.828
69	77.975	7588.039
70	78.883	7588.039
71	79.793	7606.083
72	80.740	7913.596
73	81.700	8019.501
74	82.594	7468.171
75	83.453	7186.608
76	84.283	6934.885
77	85.062	6509.480
78	85.834	6449.546
79	86.500	5564.689
80	87.128	5251.120
81	87.756	5249.143
82	88.295	4502.071
83	88.776	4016.732
84	89.256	4016.732
85	89.737	4016.732
86	90.195	3826.983
87	90.625	3593.304
88	91.055	3595.281
89	91.485	3593.304
90	91.913	3579.341
91	92.312	3335.587
92	92.701	3251.744
93	93.091	3251.744
94	93.480	3251.744
95	93.867	3235.740
96	94.172	2552.682
97	94.431	2165.151
98	94.691	2169.168
99	94.950	2165.151
100	95.210	2173.121
101	95.469	2165.151
102	95.728	2165.215
103	95.978	2085.260
104	96.153	1462.073
105	96.313	1338.252
106	96.473	1342.205

107	96.634	1338.252
108	96.794	1338.252
109	96.954	1338.252
110	97.114	1342.269
111	97.275	1338.188
112	97.435	1338.252
113	97.595	1338.252
114	97.755	1338.252
115	97.916	1342.269
116	98.018	858.843
117	98.056	315.610
118	98.095	323.580
119	98.133	319.564
120	98.171	319.564
121	98.210	319.627
122	98.248	319.564
123	98.286	319.564
124	98.325	323.580
125	98.363	319.564
126	98.402	323.580
127	98.440	319.627
128	98.478	319.564
129	98.517	323.580
130	98.555	319.564
131	98.593	319.564
132	98.632	319.627
133	98.670	323.517
134	98.708	311.594
135	98.747	327.597
136	98.785	319.564
137	98.823	319.627
138	98.862	319.564
139	98.900	319.564
140	98.938	319.564
141	98.976	319.627
142	99.015	319.564
143	99.053	319.564
144	99.091	319.564
145	99.129	319.564
146	99.167	319.564
147	99.206	319.564
148	99.244	319.564
149	99.282	319.564
150	99.320	319.564
151	99.359	319.564
152	99.397	319.564
153	99.435	319.564
154	99.473	319.564
155	99.512	319.564
156	99.550	319.564
157	99.588	319.564
158	99.626	319.564
159	99.665	319.564
160	99.703	319.564
161	99.741	319.564
162	99.779	319.564
163	99.818	319.564
164	99.856	319.564

165	99.894	319.564
166	99.932	319.564
167	99.970	319.564
168	100.000	246.559

-----  
TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 12137.7334  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 2709.2852  
-----

=====

2 4 - 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 FIVE-MINUTE UNIT INTERVALS (CFS)  
(Note: Time indicated is at END of Each Unit Intervals)

TIME (HRS)	VOLUME (AF)	Q (CFS)	0.	750.0	1500.0	2250.0	3000.0
0.083	0.0047	0.68	Q	.	.	.	.
0.167	0.0188	2.05	Q	.	.	.	.
0.250	0.0423	3.42	Q	.	.	.	.
0.333	0.0754	4.79	Q	.	.	.	.
0.417	0.1178	6.17	Q	.	.	.	.
0.500	0.1699	7.55	Q	.	.	.	.
0.583	0.2314	8.94	Q	.	.	.	.
0.667	0.3026	10.33	Q	.	.	.	.
0.750	0.3838	11.79	Q	.	.	.	.
0.833	0.4787	13.79	Q	.	.	.	.
0.917	0.5883	15.91	Q	.	.	.	.
1.000	0.7124	18.03	Q	.	.	.	.
1.083	0.8513	20.16	Q	.	.	.	.
1.167	1.0048	22.29	Q	.	.	.	.
1.250	1.1770	25.00	Q	.	.	.	.
1.333	1.3758	28.87	Q	.	.	.	.
1.417	1.6015	32.77	Q	.	.	.	.
1.500	1.8565	37.03	Q	.	.	.	.
1.583	2.1466	42.12	Q	.	.	.	.
1.667	2.4730	47.40	Q	.	.	.	.
1.750	2.8427	53.68	Q	.	.	.	.
1.833	3.2569	60.14	Q	.	.	.	.
1.917	3.7137	66.33	Q	.	.	.	.
2.000	4.2130	72.50	Q	.	.	.	.
2.083	4.7549	78.69	VQ	.	.	.	.
2.167	5.3451	85.70	VQ	.	.	.	.
2.250	5.9994	95.00	VQ	.	.	.	.
2.333	6.7028	102.14	VQ	.	.	.	.
2.417	7.4523	108.82	VQ	.	.	.	.
2.500	8.2479	115.52	VQ	.	.	.	.
2.583	9.0931	122.73	VQ	.	.	.	.
2.667	9.9960	131.10	VQ	.	.	.	.
2.750	10.9647	140.66	VQ	.	.	.	.
2.833	11.9914	149.06	VQ	.	.	.	.
2.917	13.0682	156.35	V Q	.	.	.	.
3.000	14.1953	163.66	V Q	.	.	.	.
3.083	15.3770	171.58	V Q	.	.	.	.
3.167	16.6260	181.36	V Q	.	.	.	.
3.250	17.9356	190.15	V Q	.	.	.	.
3.333	19.3168	200.55	V Q	.	.	.	.
3.417	20.7766	211.96	V Q	.	.	.	.
3.500	22.3004	221.26	V Q	.	.	.	.
3.583	23.8735	228.42	V Q	.	.	.	.
3.667	25.5200	239.06	V Q	.	.	.	.
3.750	27.2528	251.60	V Q	.	.	.	.
3.833	29.0641	263.01	V Q	.	.	.	.
3.917	30.9561	274.72	V Q	.	.	.	.

4.000	32.9297	286.57	V	Q	.	.	.	.
4.083	34.9999	300.59	V	Q	.	.	.	.
4.167	37.1548	312.90	V	Q	.	.	.	.
4.250	39.3765	322.59	V	Q	.	.	.	.
4.333	41.6649	332.27	V	Q	.	.	.	.
4.417	44.0166	341.46	V	Q	.	.	.	.
4.500	46.4351	351.17	V	Q	.	.	.	.
4.583	48.9289	362.10	V	Q	.	.	.	.
4.667	51.5068	374.32	V	Q	.	.	.	.
4.750	54.1791	388.02	V	Q	.	.	.	.
4.833	56.9288	399.25	V	Q	.	.	.	.
4.917	59.7459	409.04	V	Q	.	.	.	.
5.000	62.6273	418.38	V	Q	.	.	.	.
5.083	65.5749	427.99	V	Q	.	.	.	.
5.167	68.5970	438.80	.V	Q	.	.	.	.
5.250	71.6801	447.67	.V	Q	.	.	.	.
5.333	74.8233	456.38	.V	Q	.	.	.	.
5.417	78.0303	465.67	.V	Q	.	.	.	.
5.500	81.2997	474.72	.V	Q	.	.	.	.
5.583	84.6277	483.22	.V	Q	.	.	.	.
5.667	88.0043	490.29	.V	Q	.	.	.	.
5.750	91.4292	497.29	.V	Q	.	.	.	.
5.833	94.9024	504.31	.V	Q	.	.	.	.
5.917	98.4244	511.39	.V	Q	.	.	.	.
6.000	101.9967	518.71	.V	Q	.	.	.	.
6.083	105.6203	526.14	.V	Q	.	.	.	.
6.167	109.2926	533.21	.V	Q	.	.	.	.
6.250	113.0125	540.13	.V	Q	.	.	.	.
6.333	116.7790	546.90	.V	Q	.	.	.	.
6.417	120.5904	553.41	.V	Q	.	.	.	.
6.500	124.4466	559.91	.V	Q	.	.	.	.
6.583	128.3435	565.83	.V	Q	.	.	.	.
6.667	132.2799	571.56	.V	Q	.	.	.	.
6.750	136.2559	577.32	.V	Q	.	.	.	.
6.833	140.2683	582.59	.V	Q	.	.	.	.
6.917	144.3148	587.55	.V	Q	.	.	.	.
7.000	148.3957	592.55	.V	Q	.	.	.	.
7.083	152.5112	597.57	.V	Q	.	.	.	.
7.167	156.6606	602.49	.V	Q	.	.	.	.
7.250	160.8430	607.29	.V	Q	.	.	.	.
7.333	165.0586	612.11	.V	Q	.	.	.	.
7.417	169.3078	616.97	.V	Q	.	.	.	.
7.500	173.5905	621.85	.V	Q	.	.	.	.
7.583	177.9059	626.59	.V	Q	.	.	.	.
7.667	182.2537	631.31	.V	Q	.	.	.	.
7.750	186.6343	636.06	.V	Q	.	.	.	.
7.833	191.0479	640.85	.V	Q	.	.	.	.
7.917	195.4946	645.66	.V	Q	.	.	.	.
8.000	199.9714	650.03	.V	Q	.	.	.	.
8.083	204.4766	654.16	.V	Q	.	.	.	.
8.167	209.0106	658.33	.V	Q	.	.	.	.
8.250	213.5735	662.54	.V	Q	.	.	.	.
8.333	218.1656	666.78	.V	Q	.	.	.	.
8.417	222.7872	671.06	.V	Q	.	.	.	.
8.500	227.4385	675.37	.V	Q	.	.	.	.
8.583	232.1194	679.66	.V	Q	.	.	.	.
8.667	236.8271	683.56	.V	Q	.	.	.	.
8.750	241.5613	687.41	.V	Q	.	.	.	.

8.833	246.3223	691.30	.	V	Q.	.	.	.
8.917	251.1104	695.23	.	V	Q.	.	.	.
9.000	255.9257	699.19	.	V	Q.	.	.	.
9.083	260.7687	703.20	.	V	Q.	.	.	.
9.167	265.6396	707.25	.	V	Q.	.	.	.
9.250	270.5387	711.34	.	V	Q.	.	.	.
9.333	275.4662	715.48	.	V	Q.	.	.	.
9.417	280.4225	719.66	.	V	Q.	.	.	.
9.500	285.4079	723.88	.	V	Q.	.	.	.
9.583	290.4228	728.16	.	V	Q.	.	.	.
9.667	295.4651	732.14	.	V	Q.	.	.	.
9.750	300.5325	735.79	.	V	Q.	.	.	.
9.833	305.6254	739.49	.	V	Q.	.	.	.
9.917	310.7442	743.25	.	V	Q.	.	.	.
10.000	315.8891	747.04	.	V	Q.	.	.	.
10.083	321.0606	750.90	.	V	Q	.	.	.
10.167	326.2589	754.79	.	V	Q	.	.	.
10.250	331.4844	758.75	.	V	Q	.	.	.
10.333	336.7376	762.76	.	V	Q	.	.	.
10.417	342.0188	766.83	.	V	Q	.	.	.
10.500	347.3284	770.95	.	V	Q	.	.	.
10.583	352.6668	775.14	.	V	Q	.	.	.
10.667	358.0344	779.37	.	V	Q	.	.	.
10.750	363.4316	783.68	.	V	Q	.	.	.
10.833	368.8589	788.04	.	V	Q	.	.	.
10.917	374.3168	792.48	.	V	Q	.	.	.
11.000	379.8056	796.97	.	V	Q	.	.	.
11.083	385.3259	801.55	.	V	Q	.	.	.
11.167	390.8780	806.17	.	V	Q	.	.	.
11.250	396.4627	810.89	.	V	Q	.	.	.
11.333	402.0802	815.67	.	V	Q	.	.	.
11.417	407.7313	820.53	.	V	Q	.	.	.
11.500	413.4163	825.47	.	V	.Q	.	.	.
11.583	419.1360	830.49	.	V	.Q	.	.	.
11.667	424.8907	835.59	.	V	.Q	.	.	.
11.750	430.6812	840.78	.	V	.Q	.	.	.
11.833	436.5080	846.05	.	V	.Q	.	.	.
11.917	442.3719	851.43	.	V	.Q	.	.	.
12.000	448.2733	856.88	.	V	.Q	.	.	.
12.083	454.2218	863.73	.	V	.Q	.	.	.
12.167	460.2268	871.93	.	V	.Q	.	.	.
12.250	466.2890	880.23	.	V	.Q	.	.	.
12.333	472.4090	888.62	.	V	.Q	.	.	.
12.417	478.5874	897.11	.	V	.Q	.	.	.
12.500	484.8250	905.69	.	V	.Q	.	.	.
12.583	491.1223	914.38	.	V	.Q	.	.	.
12.667	497.4802	923.16	.	V	.Q	.	.	.
12.750	503.9002	932.19	.	V	.Q	.	.	.
12.833	510.3900	942.31	.	V	.Q	.	.	.
12.917	516.9517	952.77	.	V	.Q	.	.	.
13.000	523.5862	963.33	.	V	.Q	.	.	.
13.083	530.2943	974.01	.	V	.Q	.	.	.
13.167	537.0767	984.81	.	V	.Q	.	.	.
13.250	543.9417	996.80	.	V	.Q	.	.	.
13.333	550.9048	1011.05	.	V	.Q	.	.	.
13.417	557.9673	1025.49	.	V	.Q	.	.	.
13.500	565.1345	1040.66	.	V	.Q	.	.	.
13.583	572.4178	1057.54	.	V	.Q	.	.	.

13.667	579.8200	1074.81	.	V	.	Q	.	.	.	.	.	.
13.750	587.3550	1094.08	.	V	.	Q	.	.	.	.	.	.
13.833	595.0255	1113.75	.	V	.	Q	.	.	.	.	.	.
13.917	602.8285	1133.00	.	V	.	Q	.	.	.	.	.	.
14.000	610.7641	1152.25	.	V	.	Q	.	.	.	.	.	.
14.083	618.8400	1172.62	.	V	.	Q	.	.	.	.	.	.
14.167	627.0750	1195.72	.	V	.	Q	.	.	.	.	.	.
14.250	635.4987	1223.13	.	V	.	Q	.	.	.	.	.	.
14.333	644.0832	1246.47	.	V	.	Q	.	.	.	.	.	.
14.417	652.8224	1268.93	.	V	.	Q	.	.	.	.	.	.
14.500	661.7166	1291.44	.	V	.	Q	.	.	.	.	.	.
14.583	670.7725	1314.91	.	V	.	Q	.	.	.	.	.	.
14.667	680.0051	1340.57	.	V	.	Q	.	.	.	.	.	.
14.750	689.4305	1368.58	.	V	.	Q	.	.	.	.	.	.
14.833	699.0399	1395.27	.	V	.	Q	.	.	.	.	.	.
14.917	708.8196	1420.03	.	V	.	Q	.	.	.	.	.	.
15.000	718.7699	1444.78	.	V	.	Q	.	.	.	.	.	.
15.083	728.8983	1470.65	.	V	.	Q	.	.	.	.	.	.
15.167	739.2285	1499.93	.	V	.	Q	.	.	.	.	.	.
15.250	749.7536	1528.25	.	.V	.	Q	.	.	.	.	.	.
15.333	760.5071	1561.41	.	.V	.	Q	.	.	.	.	.	.
15.417	771.4900	1594.72	.	.V	.	Q	.	.	.	.	.	.
15.500	782.6667	1622.86	.	.V	.	Q	.	.	.	.	.	.
15.583	794.0205	1648.57	.	.V	.	Q	.	.	.	.	.	.
15.667	805.5989	1681.18	.	.V	.	Q	.	.	.	.	.	.
15.750	817.4360	1718.74	.	.V	.	Q	.	.	.	.	.	.
15.833	829.5167	1754.12	.	.V	.	Q	.	.	.	.	.	.
15.917	841.8470	1790.37	.	.V	.	Q	.	.	.	.	.	.
16.000	854.4394	1828.41	.	.V	.	Q	.	.	.	.	.	.
16.083	867.4484	1888.91	.	.V	.	Q	.	.	.	.	.	.
16.167	880.8389	1944.30	.	.V	.	Q	.	.	.	.	.	.
16.250	894.4649	1978.49	.	.V	.	Q	.	.	.	.	.	.
16.333	908.2950	2008.13	.	.V	.	Q	.	.	.	.	.	.
16.417	922.3229	2036.85	.	.V	.	Q	.	.	.	.	.	.
16.500	936.5632	2067.69	.	.V	.	Q	.	.	.	.	.	.
16.583	951.0280	2100.29	.	.V	.	Q	.	.	.	.	.	.
16.667	965.7335	2135.25	.	.V	.	Q	.	.	.	.	.	.
16.750	980.7299	2177.48	.	.V	.	Q	.	.	.	.	.	.
16.833	996.0503	2224.52	.	.V	.	Q	.	.	.	.	.	.
16.917	1011.5632	2252.47	.	.V	.	Q	.	.	.	.	.	.
17.000	1027.2360	2275.69	.	.V	.	Q	.	.	.	.	.	.
17.083	1043.0616	2297.88	.	.V	.	Q	.	.	.	.	.	.
17.167	1059.0903	2327.36	.	.V	.	Q	.	.	.	.	.	.
17.250	1075.4038	2368.71	.	.V	.	Q	.	.	.	.	.	.
17.333	1092.1188	2427.01	.	.V	.	Q	.	.	.	.	.	.
17.417	1109.0403	2457.00	.	.V	.	Q	.	.	.	.	.	.
17.500	1126.1854	2489.47	.	.V	.	Q	.	.	.	.	.	.
17.583	1143.5826	2526.08	.	.V	.	Q	.	.	.	.	.	.
17.667	1161.1863	2556.04	.	.V	.	Q	.	.	.	.	.	.
17.750	1179.1722	2611.56	.	.V	.	Q	.	.	.	.	.	.
17.833	1197.3462	2638.86	.	.V	.	Q	.	.	.	.	.	.
17.917	1215.6195	2653.29	.	.V	.	Q	.	.	.	.	.	.
18.000	1234.0437	2675.20	.	.V	.	Q	.	.	.	.	.	.
18.083	1252.6639	2703.66	.	.V	.	Q	.	.	.	.	.	.
18.167	1271.6191	2752.29	.	.V	.	Q	.	.	.	.	.	.
18.250	1291.1075	2829.72	.	.V	.	Q	.	.	.	.	.	.
18.333	1310.2655	2781.73	.	.V	.	Q	.	.	.	.	.	.
18.417	1329.4030	2778.75	.	.V	.	Q	.	.	.	.	.	.

18.500	1348.6128	2789.26	.	.	.	V	.	.	Q	.	.	.
18.583	1368.0605	2823.82	.	.	.	V	.	.	Q	.	.	.
18.667	1387.8137	2868.15	.	.	.	V	.	.	Q	.	.	.
18.750	1407.8108	2903.57	.	.	.	V	.	.	Q	.	.	.
18.833	1427.5804	2870.56	.	.	.	.V	.	.	Q	.	.	.
18.917	1447.1749	2845.12	.	.	.	.V	.	.	Q	.	.	.
19.000	1466.7805	2846.72	.	.	.	.V	.	.	Q	.	.	.
19.083	1486.5050	2864.00	.	.	.	.V	.	.	Q	.	.	.
19.167	1506.5879	2916.03	.	.	.	.V	.	.	Q	.	.	.
19.250	1526.4343	2881.70	.	.	.	.V	.	.	Q	.	.	.
19.333	1546.5054	2914.32	.	.	.	.V	.	.	Q	.	.	.
19.417	1566.6042	2918.36	.	.	.	.V	.	.	Q	.	.	.
19.500	1586.2217	2848.45	.	.	.	.V	.	.	Q	.	.	.
19.583	1605.4364	2789.99	.	.	.	.V	.	.	Q	.	.	.
19.667	1625.2909	2882.88	.	.	.	.V	.	.	Q	.	.	.
19.750	1645.4298	2924.16	.	.	.	.V	.	.	Q	.	.	.
19.833	1665.2585	2879.13	.	.	.	.V	.	.	Q	.	.	.
19.917	1685.0195	2869.30	.	.	.	.V	.	.	Q	.	.	.
20.000	1704.7057	2858.43	.	.	.	.V	.	.	Q	.	.	.
20.083	1724.6436	2894.97	.	.	.	.V	.	.	Q	.	.	.
20.167	1744.0612	2819.43	.	.	.	.V	.	.	Q	.	.	.
20.250	1762.8268	2724.77	.	.	.	.V	.	.	Q	.	.	.
20.333	1781.4581	2705.28	.	.	.	.V	.	.	Q	.	.	.
20.417	1799.9097	2679.16	.	.	.	.V	.	.	Q	.	.	.
20.500	1818.3912	2683.52	.	.	.	.V	.	.	Q	.	.	.
20.583	1837.0516	2709.49	.	.	.	.V	.	.	Q	.	.	.
20.667	1855.8157	2724.53	.	.	.	.V	.	.	Q	.	.	.
20.750	1874.5850	2725.30	.	.	.	.V	.	.	Q	.	.	.
20.833	1892.6315	2620.35	.	.	.	.V	.	.	Q	.	.	.
20.917	1910.2074	2552.02	.	.	.	.V	.	.	Q	.	.	.
21.000	1927.5657	2520.42	.	.	.	.V	.	.	Q	.	.	.
21.083	1944.8341	2507.38	.	.	.	.V	.	.	Q	.	.	.
21.167	1962.1160	2509.32	.	.	.	.V	.	.	Q	.	.	.
21.250	1978.8479	2429.48	.	.	.	.V	.	.	Q	.	.	.
21.333	1995.3525	2396.48	.	.	.	.V	.	.	Q	.	.	.
21.417	2011.7476	2380.55	.	.	.	.V	.	.	Q	.	.	.
21.500	2027.9111	2346.96	.	.	.	.V	.	.	Q	.	.	.
21.583	2043.7625	2301.61	.	.	.	.	.	.	Q	.	.	.
21.667	2059.0806	2224.18	.	.	.	.	.	.	QV	.	.	.
21.750	2074.0981	2180.55	.	.	.	.	.	.	QV	.	.	.
21.833	2088.8806	2146.41	.	.	.	.	.	.	Q V	.	.	.
21.917	2103.4509	2115.60	.	.	.	.	.	.	Q .V	.	.	.
22.000	2117.8208	2086.49	.	.	.	.	.	.	Q .V	.	.	.
22.083	2131.9170	2046.78	.	.	.	.	.	.	Q .V	.	.	.
22.167	2145.6655	1996.27	.	.	.	.	.	.	Q .V	.	.	.
22.250	2159.1619	1959.66	.	.	.	.	.	.	Q .V	.	.	.
22.333	2172.4131	1924.06	.	.	.	.	.	.	Q .V	.	.	.
22.417	2185.3950	1884.98	.	.	.	.	.	.	Q .V	.	.	.
22.500	2198.1445	1851.24	.	.	.	.	.	.	Q .V	.	.	.
22.583	2210.5466	1800.79	.	.	.	.	.	.	Q .V	.	.	.
22.667	2222.6707	1760.41	.	.	.	.	.	.	Q .V	.	.	.
22.750	2234.5295	1721.91	.	.	.	.	.	.	Q .V	.	.	.
22.833	2246.0610	1674.36	.	.	.	.	.	.	Q .V	.	.	.
22.917	2257.3198	1634.77	.	.	.	.	.	.	Q .V	.	.	.
23.000	2268.3730	1604.92	.	.	.	.	.	.	Q .V	.	.	.
23.083	2279.2158	1574.36	.	.	.	.	.	.	Q .V	.	.	.
23.167	2289.8047	1537.50	.	.	.	.	.	.	Q .V	.	.	.
23.250	2300.1592	1503.46	.	.	.	.	.	.	Q .V	.	.	.



23.333	2310.3232	1475.82	.	.	Q.	.	V	.
23.417	2320.2957	1448.01	.	.	Q.	.	V	.
23.500	2330.0742	1419.84	.	.	Q.	.	V	.
23.583	2339.6406	1389.03	.	.	Q.	.	V	.
23.667	2349.0364	1364.25	.	.	Q.	.	V	.
23.750	2358.2703	1340.77	.	.	Q.	.	V	.
23.833	2367.3455	1317.71	.	.	Q.	.	V	.
23.917	2376.2561	1293.82	.	.	Q.	.	V	.
24.000	2384.9207	1258.08	.	.	Q.	.	V	.
24.083	2393.3801	1228.33	.	.	Q.	.	V	.
24.167	2401.6912	1206.77	.	.	Q.	.	V	.
24.250	2409.8599	1186.11	.	.	Q.	.	V	.
24.333	2417.8860	1165.39	.	.	Q.	.	V	.
24.417	2425.7664	1144.25	.	.	Q.	.	V	.
24.500	2433.4988	1122.76	.	.	Q.	.	V	.
24.583	2441.0786	1100.59	.	.	Q.	.	V	.
24.667	2448.4419	1069.16	.	.	Q.	.	V	.
24.750	2455.6589	1047.93	.	.	Q.	.	V	.
24.833	2462.7524	1029.97	.	.	Q.	.	V	.
24.917	2469.7268	1012.68	.	.	Q.	.	V	.
25.000	2476.5886	996.33	.	.	Q.	.	V	.
25.083	2483.3467	981.26	.	.	Q.	.	V	.
25.167	2490.0027	966.46	.	.	Q.	.	V	.
25.250	2496.5537	951.22	.	.	Q.	.	V	.
25.333	2502.9937	935.08	.	.	Q.	.	V	.
25.417	2509.3232	919.04	.	.	Q.	.	V	.
25.500	2515.5371	902.24	.	.	Q.	.	V	.
25.583	2521.6267	884.20	.	.	Q.	.	V	.
25.667	2527.5325	857.52	.	.	Q.	.	V	.
25.750	2533.2478	829.86	.	.	Q.	.	V	.
25.833	2538.8486	813.24	.	.	Q.	.	V	.
25.917	2544.3389	797.19	.	.	Q.	.	V	.
26.000	2549.7224	781.67	.	.	Q.	.	V	.
26.083	2554.9954	765.62	.	.	Q.	.	V	.
26.167	2560.1528	748.85	.	.	Q.	.	V	.
26.250	2565.1797	729.90	.	.	Q.	.	V	.
26.333	2570.0920	713.28	.	.	Q.	.	V	.
26.417	2574.8928	697.09	.	.	Q.	.	V	.
26.500	2579.5840	681.14	.	.	Q.	.	V	.
26.583	2584.1619	664.73	.	.	Q.	.	V	.
26.667	2588.6299	648.74	.	.	Q.	.	V	.
26.750	2592.9868	632.61	.	.	Q.	.	V	.
26.833	2597.2410	617.70	.	.	Q.	.	V	.
26.917	2601.4019	604.18	.	.	Q.	.	V	.
27.000	2605.4709	590.82	.	.	Q.	.	V	.
27.083	2609.4453	577.09	.	.	Q.	.	V	.
27.167	2613.3115	561.39	.	.	Q.	.	V	.
27.250	2617.0813	547.38	.	.	Q.	.	V	.
27.333	2620.7415	531.46	.	.	Q.	.	V	.
27.417	2624.2874	514.88	.	.	Q.	.	V	.
27.500	2627.7346	500.56	.	.	Q.	.	V	.
27.583	2631.0994	488.55	.	.	Q.	.	V	.
27.667	2634.3625	473.83	.	.	Q.	.	V	.
27.750	2637.5173	458.08	.	.	Q.	.	V	.
27.833	2640.5728	443.63	.	.	Q.	.	V	.
27.917	2643.5278	429.07	.	.	Q.	.	V	.
28.000	2646.3821	414.44	.	.	Q.	.	V	.
28.083	2649.1199	397.51	.	.	Q.	.	V	.

28.167	2651.7542	382.50	.	Q	.	.	.	V.
28.250	2654.3042	370.26	.	Q	.	.	.	V.
28.333	2656.7710	358.18	.	Q	.	.	.	V.
28.417	2659.1589	346.75	.	Q	.	.	.	V.
28.500	2661.4656	334.92	.	Q	.	.	.	V.
28.583	2663.6833	322.03	.	Q	.	.	.	V.
28.667	2665.8044	307.98	.	Q	.	.	.	V.
28.750	2667.8198	292.63	.	Q	.	.	.	V.
28.833	2669.7476	279.90	.	Q	.	.	.	V.
28.917	2671.5986	268.77	.	Q	.	.	.	V.
29.000	2673.3770	258.21	.	Q	.	.	.	V.
29.083	2675.0815	247.51	.	Q	.	.	.	V.
29.167	2676.7051	235.75	.	Q	.	.	.	V.
29.250	2678.2620	226.04	.	Q	.	.	.	V.
29.333	2679.7546	216.75	.	Q	.	.	.	V.
29.417	2681.1829	207.39	.	Q	.	.	.	V.
29.500	2682.5488	198.36	.	Q	.	.	.	V.
29.583	2683.8567	189.91	.	Q	.	.	.	V.
29.667	2685.1167	182.97	.	Q	.	.	.	V.
29.750	2686.3303	176.23	.	Q	.	.	.	V.
29.833	2687.4971	169.41	.	Q	.	.	.	V.
29.917	2688.6150	162.33	.	Q	.	.	.	V.
30.000	2689.6721	153.48	.	Q	.	.	.	V.
30.083	2690.6470	141.56	.	Q	.	.	.	V.
30.167	2691.5767	134.98	.	Q	.	.	.	V.
30.250	2692.4631	128.72	.	Q	.	.	.	V.
30.333	2693.3079	122.65	.	Q	.	.	.	V.
30.417	2694.1104	116.53	.	Q	.	.	.	V.
30.500	2694.8711	110.46	.	Q	.	.	.	V.
30.583	2695.5942	105.01	.	Q	.	.	.	V.
30.667	2696.2815	99.80	.	Q	.	.	.	V.
30.750	2696.9329	94.59	.	Q	.	.	.	V.
30.833	2697.5520	89.91	.	Q	.	.	.	V.
30.917	2698.1414	85.58	.	Q	.	.	.	V.
31.000	2698.7017	81.35	.	Q	.	.	.	V.
31.083	2699.2349	77.42	.	Q	.	.	.	V.
31.167	2699.7422	73.67	.	Q	.	.	.	V.
31.250	2700.2251	70.11	.	Q	.	.	.	V.
31.333	2700.6836	66.58	.	Q	.	.	.	V.
31.417	2701.1179	63.08	.	Q	.	.	.	V.
31.500	2701.5286	59.61	.	Q	.	.	.	V.
31.583	2701.9167	56.35	.	Q	.	.	.	V.
31.667	2702.2830	53.17	.	Q	.	.	.	V.
31.750	2702.6274	50.01	.	Q	.	.	.	V.
31.833	2702.9502	46.88	.	Q	.	.	.	V.
31.917	2703.2517	43.77	.	Q	.	.	.	V.
32.000	2703.5359	41.27	.	Q	.	.	.	V.
32.083	2703.8071	39.38	.	Q	.	.	.	V.
32.167	2704.0654	37.50	.	Q	.	.	.	V.
32.250	2704.3110	35.65	.	Q	.	.	.	V.
32.333	2704.5439	33.81	.	Q	.	.	.	V.
32.417	2704.7644	32.00	.	Q	.	.	.	V.
32.500	2704.9724	30.20	.	Q	.	.	.	V.
32.583	2705.1685	28.47	.	Q	.	.	.	V.
32.667	2705.3557	27.20	.	Q	.	.	.	V.
32.750	2705.5349	26.02	.	Q	.	.	.	V.
32.833	2705.7061	24.86	.	Q	.	.	.	V.
32.917	2705.8694	23.71	.	Q	.	.	.	V.

33.000	2706.0249	22.57	Q	.	.	.	V.
33.083	2706.1726	21.44	Q	.	.	.	V.
33.167	2706.3125	20.31	Q	.	.	.	V.
33.250	2706.4448	19.21	Q	.	.	.	V.
33.333	2706.5696	18.11	Q	.	.	.	V.
33.417	2706.6868	17.02	Q	.	.	.	V.
33.500	2706.7966	15.94	Q	.	.	.	V.
33.583	2706.8989	14.86	Q	.	.	.	V.
33.667	2706.9963	14.14	Q	.	.	.	V.
33.750	2707.0913	13.79	Q	.	.	.	V.
33.833	2707.1838	13.45	Q	.	.	.	V.
33.917	2707.2742	13.12	Q	.	.	.	V.
34.000	2707.3623	12.78	Q	.	.	.	V.
34.083	2707.4480	12.46	Q	.	.	.	V.
34.167	2707.5315	12.13	Q	.	.	.	V.
34.250	2707.6128	11.81	Q	.	.	.	V.
34.333	2707.6919	11.49	Q	.	.	.	V.
34.417	2707.7688	11.18	Q	.	.	.	V.
34.500	2707.8435	10.86	Q	.	.	.	V.
34.583	2707.9163	10.56	Q	.	.	.	V.
34.667	2707.9868	10.25	Q	.	.	.	V.
34.750	2708.0554	9.95	Q	.	.	.	V.
34.833	2708.1218	9.65	Q	.	.	.	V.
34.917	2708.1863	9.36	Q	.	.	.	V.
35.000	2708.2488	9.06	Q	.	.	.	V.
35.083	2708.3091	8.77	Q	.	.	.	V.
35.167	2708.3674	8.49	Q	.	.	.	V.
35.250	2708.4238	8.20	Q	.	.	.	V.
35.333	2708.4783	7.92	Q	.	.	.	V.
35.417	2708.5308	7.64	Q	.	.	.	V.
35.500	2708.5815	7.36	Q	.	.	.	V.
35.583	2708.6304	7.09	Q	.	.	.	V.
35.667	2708.6772	6.81	Q	.	.	.	V.
35.750	2708.7224	6.54	Q	.	.	.	V.
35.833	2708.7656	6.28	Q	.	.	.	V.
35.917	2708.8071	6.01	Q	.	.	.	V.
36.000	2708.8467	5.75	Q	.	.	.	V.

-----

TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
 (Note: 100% of Peak Flow Rate estimate assumed to have  
 an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
0%	2165.0
10%	1485.0
20%	1210.0
30%	805.0
40%	615.0
50%	500.0
60%	410.0
70%	335.0
80%	260.0
90%	180.0

=====

END OF FLOODSCx ROUTING ANALYSIS

\*\*\*\*\*

FLOOD ROUTING ANALYSIS  
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)  
(c) Copyright 1989-2013 Advanced Engineering Software (aes)  
Ver. 20.0 Release Date: 06/01/2013 License ID 1237

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*  
\* RMV PA-3 ROMP AMENDMENT 2022 - NODE 139 \*  
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*  
\* 5-YR EV OCT 2022 ROKAMOTO \*  
\*\*\*\*\*

FILE NAME: EV05139S.DAT  
TIME/DATE OF STUDY: 11:40 10/25/2022

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 139.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<

=====

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 69530.500 ACRES  
BASEFLOW = 0.000 CFS/SQUARE-MILE  
\*USER ENTERED "LAG" TIME = 4.143 HOURS  
VALLEY (DEVELOPED) S-GRAPH SELECTED  
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.470  
LOW LOSS FRACTION = 0.822  
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.22  
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.44  
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 0.60  
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 1.09  
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 1.59  
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 2.76

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:  
5-MINUTE FACTOR = 0.286  
30-MINUTE FACTOR = 0.348  
1-HOUR FACTOR = 0.391  
3-HOUR FACTOR = 0.733  
6-HOUR FACTOR = 0.885  
24-HOUR FACTOR = 0.932

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES  
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 2.011

=====

UNIT HYDROGRAPH DETERMINATION

-----

INTERVAL NUMBER	"S" GRAPH MEAN VALUES	UNIT HYDROGRAPH ORDINATES (CFS)
1	0.115	966.498
2	0.345	1933.005
3	0.575	1933.001
4	0.805	1933.000
5	1.034	1933.000
6	1.264	1933.009
7	1.494	1932.992
8	1.724	1932.997
9	1.959	1978.307
10	2.280	2694.210
11	2.630	2941.533
12	2.979	2941.525
13	3.329	2941.531
14	3.679	2941.501
15	4.079	3360.537
16	4.697	5196.875
17	5.340	5412.405
18	6.007	5605.358
19	6.826	6886.096
20	7.674	7133.860
21	8.658	8274.613
22	9.729	9003.099
23	10.754	8615.799
24	11.759	8456.896
25	12.765	8456.896
26	13.793	8644.564
27	15.242	12184.395
28	16.568	11146.537
29	17.640	9020.798
30	18.713	9020.541
31	19.798	9122.482
32	21.073	10723.615
33	22.502	12013.567
34	24.032	12870.397
35	25.225	10029.063
36	26.375	9665.212
37	27.526	9679.230
38	28.943	11915.717
39	30.457	12729.435
40	31.842	11651.882
41	33.687	15512.195
42	35.376	14200.928
43	36.659	10789.679
44	37.776	9390.407
45	39.784	16885.469
46	41.603	15301.945
47	43.441	15452.997
48	45.232	15061.078

49	47.160	16214.414
50	49.426	19052.283
51	51.147	14467.554
52	52.610	12300.771
53	54.054	12146.640
54	55.408	11383.684
55	56.898	12530.412
56	58.566	14029.732
57	60.475	16051.590
58	62.545	17403.965
59	64.188	13818.439
60	65.602	11885.371
61	66.942	11267.821
62	68.337	11732.299
63	69.915	13268.283
64	71.152	10402.378
65	72.366	10211.519
66	73.671	10969.824
67	74.929	10579.958
68	76.098	9826.721
69	77.015	7708.920
70	77.909	7519.023
71	78.803	7516.008
72	79.697	7522.103
73	80.625	7803.805
74	81.572	7960.983
75	82.464	7499.713
76	83.311	7121.972
77	84.139	6960.816
78	84.909	6479.017
79	85.675	6438.150
80	86.357	5733.991
81	86.975	5203.242
82	87.594	5205.231
83	88.161	4768.468
84	88.636	3994.766
85	89.110	3978.471
86	89.583	3980.459
87	90.047	3898.855
88	90.474	3592.646
89	90.897	3559.991
90	91.321	3559.991
91	91.744	3562.044
92	92.151	3421.161
93	92.535	3227.287
94	92.918	3221.128
95	93.301	3221.128
96	93.684	3221.192
97	94.038	2980.228
98	94.300	2200.496
99	94.556	2151.546
100	94.811	2143.334
101	95.067	2151.482
102	95.322	2147.440
103	95.577	2143.334
104	95.833	2151.546
105	96.054	1857.526
106	96.212	1330.947

107	96.370	1330.883
108	96.528	1322.735
109	96.685	1326.841
110	96.844	1330.947
111	97.001	1322.735
112	97.159	1326.841
113	97.317	1326.841
114	97.474	1326.841
115	97.632	1326.777
116	97.790	1326.841
117	97.946	1310.546
118	98.025	669.515
119	98.063	318.462
120	98.101	314.357
121	98.139	318.398
122	98.176	314.357
123	98.214	318.462
124	98.252	318.462
125	98.290	318.398
126	98.327	314.357
127	98.365	318.462
128	98.402	314.357
129	98.440	314.357
130	98.477	314.357
131	98.515	322.504
132	98.552	310.315
133	98.590	318.398
134	98.628	322.504
135	98.665	310.315
136	98.704	322.504
137	98.741	310.251
138	98.779	326.610
139	98.816	310.315
140	98.854	318.398
141	98.892	318.462
142	98.930	318.462
143	98.968	318.398
144	99.005	310.315
145	99.042	310.315
146	99.079	310.315
147	99.115	310.315
148	99.152	310.315
149	99.189	310.315
150	99.226	310.315
151	99.263	310.315
152	99.300	310.315
153	99.337	310.315
154	99.374	310.315
155	99.411	310.315
156	99.448	310.315
157	99.485	310.315
158	99.521	310.315
159	99.558	310.315
160	99.595	310.315
161	99.632	310.315
162	99.669	310.315
163	99.706	310.315
164	99.743	310.315

165	99.780	310.315
166	99.817	310.315
167	99.854	310.315
168	99.890	310.315
169	99.927	310.315
170	99.964	310.315
171	100.000	300.628

-----  
TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 12193.3867  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 2721.0903  
-----

=====  
2 4 - 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 FIVE-MINUTE UNIT INTERVALS (CFS)  
(Note: Time indicated is at END of Each Unit Intervals)

TIME (HRS)	VOLUME (AF)	Q (CFS)	0.	750.0	1500.0	2250.0	3000.0
0.083	0.0046	0.67	Q	.	.	.	.
0.167	0.0186	2.03	Q	.	.	.	.
0.250	0.0419	3.38	Q	.	.	.	.
0.333	0.0745	4.74	Q	.	.	.	.
0.417	0.1165	6.10	Q	.	.	.	.
0.500	0.1680	7.47	Q	.	.	.	.
0.583	0.2288	8.84	Q	.	.	.	.
0.667	0.2992	10.21	Q	.	.	.	.
0.750	0.3793	11.63	Q	.	.	.	.
0.833	0.4725	13.54	Q	.	.	.	.
0.917	0.5802	15.63	Q	.	.	.	.
1.000	0.7023	17.73	Q	.	.	.	.
1.083	0.8389	19.84	Q	.	.	.	.
1.167	0.9901	21.95	Q	.	.	.	.
1.250	1.1579	24.36	Q	.	.	.	.
1.333	1.3512	28.06	Q	.	.	.	.
1.417	1.5711	31.92	Q	.	.	.	.
1.500	1.8185	35.93	Q	.	.	.	.
1.583	2.0999	40.85	Q	.	.	.	.
1.667	2.4163	45.95	Q	.	.	.	.
1.750	2.7735	51.86	Q	.	.	.	.
1.833	3.1751	58.30	Q	.	.	.	.
1.917	3.6192	64.49	Q	.	.	.	.
2.000	4.1054	70.59	Q	.	.	.	.
2.083	4.6337	76.71	VQ	.	.	.	.
2.167	5.2052	82.98	VQ	.	.	.	.
2.250	5.8370	91.74	VQ	.	.	.	.
2.333	6.5242	99.79	VQ	.	.	.	.
2.417	7.2570	106.40	VQ	.	.	.	.
2.500	8.0354	113.02	VQ	.	.	.	.
2.583	8.8600	119.74	VQ	.	.	.	.
2.667	9.7387	127.59	VQ	.	.	.	.
2.750	10.6779	136.37	VQ	.	.	.	.
2.833	11.6819	145.78	VQ	.	.	.	.
2.917	12.7372	153.23	V Q	.	.	.	.
3.000	13.8422	160.45	V Q	.	.	.	.
3.083	14.9972	167.71	V Q	.	.	.	.
3.167	16.2132	176.55	V Q	.	.	.	.
3.250	17.4941	185.99	V Q	.	.	.	.
3.333	18.8351	194.71	V Q	.	.	.	.
3.417	20.2549	206.16	V Q	.	.	.	.
3.500	21.7475	216.72	V Q	.	.	.	.
3.583	23.2966	224.94	V Q	.	.	.	.
3.667	24.8959	232.21	V Q	.	.	.	.
3.750	26.5814	244.74	V Q	.	.	.	.
3.833	28.3458	256.20	V Q	.	.	.	.
3.917	30.1902	267.81	V Q	.	.	.	.

4.000	32.1129	279.17	V	Q	.	.	.	.
4.083	34.1197	291.39	V	Q	.	.	.	.
4.167	36.2246	305.63	V	Q	.	.	.	.
4.250	38.4058	316.71	V	Q	.	.	.	.
4.333	40.6532	326.32	V	Q	.	.	.	.
4.417	42.9664	335.87	V	Q	.	.	.	.
4.500	45.3417	344.91	V	Q	.	.	.	.
4.583	47.7852	354.78	V	Q	.	.	.	.
4.667	50.3040	365.74	V	Q	.	.	.	.
4.750	52.9084	378.15	V	Q	.	.	.	.
4.833	55.6050	391.55	V	Q	.	.	.	.
4.917	58.3769	402.49	V	Q	.	.	.	.
5.000	61.2152	412.12	V	Q	.	.	.	.
5.083	64.1171	421.36	V	Q	.	.	.	.
5.167	67.0852	430.96	V	Q	.	.	.	.
5.250	70.1270	441.67	.V	Q	.	.	.	.
5.333	73.2290	450.42	.V	Q	.	.	.	.
5.417	76.3907	459.07	.V	Q	.	.	.	.
5.500	79.6158	468.29	.V	Q	.	.	.	.
5.583	82.9028	477.27	.V	Q	.	.	.	.
5.667	86.2483	485.76	.V	Q	.	.	.	.
5.750	89.6423	492.82	.V	Q	.	.	.	.
5.833	93.0843	499.77	.V	Q	.	.	.	.
5.917	96.5743	506.75	.V	Q	.	.	.	.
6.000	100.1127	513.77	.V	Q	.	.	.	.
6.083	103.7010	521.02	.V	Q	.	.	.	.
6.167	107.3401	528.41	.V	Q	.	.	.	.
6.250	111.0283	535.52	.V	Q	.	.	.	.
6.333	114.7637	542.39	.V	Q	.	.	.	.
6.417	118.5460	549.19	.V	Q	.	.	.	.
6.500	122.3730	555.68	.V	Q	.	.	.	.
6.583	126.2448	562.18	.V	Q	.	.	.	.
6.667	130.1582	568.22	.V	Q	.	.	.	.
6.750	134.1109	573.93	.V	Q	.	.	.	.
6.833	138.1031	579.67	.V	Q	.	.	.	.
6.917	142.1329	585.13	.V	Q	.	.	.	.
7.000	146.1969	590.09	.V	Q	.	.	.	.
7.083	150.2952	595.07	.V	Q	.	.	.	.
7.167	154.4279	600.08	.V	Q	.	.	.	.
7.250	158.5951	605.07	.V	Q	.	.	.	.
7.333	162.7953	609.87	.V	Q	.	.	.	.
7.417	167.0286	614.69	.V	Q	.	.	.	.
7.500	171.2953	619.53	.V	Q	.	.	.	.
7.583	175.5957	624.41	.V	Q	.	.	.	.
7.667	179.9292	629.23	.V	Q	.	.	.	.
7.750	184.2953	633.95	.V	Q	.	.	.	.
7.833	188.6940	638.69	.V	Q	.	.	.	.
7.917	193.1256	643.47	.V	Q	.	.	.	.
8.000	197.5903	648.28	.V	Q	.	.	.	.
8.083	202.0874	652.97	.V	Q	.	.	.	.
8.167	206.6132	657.14	.V	Q	.	.	.	.
8.250	211.1677	661.32	.V	Q	.	.	.	.
8.333	215.7513	665.53	.V	Q	.	.	.	.
8.417	220.3640	669.78	.V	Q	.	.	.	.
8.500	225.0063	674.06	.V	Q	.	.	.	.
8.583	229.6783	678.38	.V	Q	.	.	.	.
8.667	234.3803	682.73	.V	Q	.	.	.	.
8.750	239.1113	686.93	.V	Q	.	.	.	.

8.833	243.8688	690.80	.	V	Q.	.	.	.
8.917	248.6533	694.71	.	V	Q.	.	.	.
9.000	253.4649	698.64	.	V	Q.	.	.	.
9.083	258.3040	702.63	.	V	Q.	.	.	.
9.167	263.1707	706.65	.	V	Q.	.	.	.
9.250	268.0655	710.72	.	V	Q.	.	.	.
9.333	272.9885	714.83	.	V	Q.	.	.	.
9.417	277.9402	718.98	.	V	Q.	.	.	.
9.500	282.9208	723.18	.	V	Q.	.	.	.
9.583	287.9306	727.43	.	V	Q.	.	.	.
9.667	292.9699	731.71	.	V	Q.	.	.	.
9.750	298.0391	736.05	.	V	Q.	.	.	.
9.833	303.1353	739.97	.	V	Q.	.	.	.
9.917	308.2573	743.71	.	V	Q.	.	.	.
10.000	313.4053	747.48	.	V	Q.	.	.	.
10.083	318.5797	751.32	.	V	Q	.	.	.
10.167	323.7808	755.20	.	V	Q	.	.	.
10.250	329.0090	759.14	.	V	Q	.	.	.
10.333	334.2647	763.12	.	V	Q	.	.	.
10.417	339.5483	767.18	.	V	Q	.	.	.
10.500	344.8600	771.27	.	V	Q	.	.	.
10.583	350.2005	775.44	.	V	Q	.	.	.
10.667	355.5700	779.65	.	V	Q	.	.	.
10.750	360.9690	783.93	.	V	Q	.	.	.
10.833	366.3978	788.27	.	V	Q	.	.	.
10.917	371.8571	792.69	.	V	Q	.	.	.
11.000	377.3471	797.15	.	V	Q	.	.	.
11.083	382.8684	801.70	.	V	Q	.	.	.
11.167	388.4215	806.30	.	V	Q	.	.	.
11.250	394.0068	810.99	.	V	Q	.	.	.
11.333	399.6248	815.74	.	V	Q	.	.	.
11.417	405.2762	820.58	.	V	Q	.	.	.
11.500	410.9614	825.48	.	V	.Q	.	.	.
11.583	416.6809	830.48	.	V	.Q	.	.	.
11.667	422.4353	835.54	.	V	.Q	.	.	.
11.750	428.2253	840.71	.	V	.Q	.	.	.
11.833	434.0514	845.95	.	V	.Q	.	.	.
11.917	439.9143	851.29	.	V	.Q	.	.	.
12.000	445.8145	856.70	.	V	.Q	.	.	.
12.083	451.7614	863.50	.	V	.Q	.	.	.
12.167	457.7644	871.64	.	V	.Q	.	.	.
12.250	463.8242	879.88	.	V	.Q	.	.	.
12.333	469.9412	888.19	.	V	.Q	.	.	.
12.417	476.1163	896.62	.	V	.Q	.	.	.
12.500	482.3500	905.13	.	V	.Q	.	.	.
12.583	488.6430	913.75	.	V	.Q	.	.	.
12.667	494.9961	922.46	.	V	.Q	.	.	.
12.750	501.4103	931.35	.	V	.Q	.	.	.
12.833	507.8930	941.28	.	V	.Q	.	.	.
12.917	514.4471	951.65	.	V	.Q	.	.	.
13.000	521.0732	962.12	.	V	.Q	.	.	.
13.083	527.7724	972.72	.	V	.Q	.	.	.
13.167	534.5453	983.42	.	V	.Q	.	.	.
13.250	541.3966	994.81	.	V	.Q	.	.	.
13.333	548.3437	1008.72	.	V	.Q	.	.	.
13.417	555.3895	1023.04	.	V	.Q	.	.	.
13.500	562.5363	1037.72	.	V	.Q	.	.	.
13.583	569.7967	1054.21	.	V	.Q	.	.	.

13.667	577.1736	1071.13	.	V	.	Q	.	.	.
13.750	584.6784	1089.69	.	V	.	Q	.	.	.
13.833	592.3182	1109.30	.	V	.	Q	.	.	.
13.917	600.0905	1128.54	.	V	.	Q	.	.	.
14.000	607.9945	1147.67	.	V	.	Q	.	.	.
14.083	616.0392	1168.09	.	V	.	Q	.	.	.
14.167	624.2346	1189.96	.	V	.	Q	.	.	.
14.250	632.6130	1216.55	.	V	.	Q	.	.	.
14.333	641.1637	1241.56	.	V	.	Q	.	.	.
14.417	649.8679	1263.85	.	V	.	Q	.	.	.
14.500	658.7256	1286.15	.	V	.	Q	.	.	.
14.583	667.7385	1308.67	.	V	.	Q	.	.	.
14.667	676.9211	1333.32	.	V	.	Q	.	.	.
14.750	686.2860	1359.78	.	V	.	Q	.	.	.
14.833	695.8467	1388.21	.	V	.	Q	.	.	.
14.917	705.5798	1413.24	.	V	.	Q	.	.	.
15.000	715.4817	1437.76	.	V	.	Q	.	.	.
15.083	725.5530	1462.35	.	V	.	Q	.	.	.
15.167	735.8135	1489.82	.	V	.	Q	.	.	.
15.250	746.2742	1518.90	.	V	.	Q	.	.	.
15.333	756.9396	1548.62	.	.V	.	Q	.	.	.
15.417	767.8350	1582.00	.	.V	.	Q	.	.	.
15.500	778.9380	1612.17	.	.V	.	Q	.	.	.
15.583	790.2303	1639.63	.	.V	.	Q	.	.	.
15.667	801.7020	1665.69	.	.V	.	Q	.	.	.
15.750	813.4288	1702.74	.	.V	.	Q	.	.	.
15.833	825.4009	1738.35	.	.V	.	Q	.	.	.
15.917	837.6227	1774.59	.	.V	.	Q	.	.	.
16.000	850.1003	1811.75	.	.V	.	Q	.	.	.
16.083	862.9698	1868.66	.	.V	.	Q	.	.	.
16.167	876.2375	1926.46	.	.V	.	Q	.	.	.
16.250	889.7538	1962.56	.	.V	.	Q	.	.	.
16.333	903.4852	1993.81	.	.V	.	Q	.	.	.
16.417	917.4194	2023.24	.	.V	.	Q	.	.	.
16.500	931.5574	2052.84	.	.V	.	Q	.	.	.
16.583	945.9061	2083.44	.	.V	.	Q	.	.	.
16.667	960.4754	2115.46	.	.V	.	Q	.	.	.
16.750	975.3044	2153.17	.	.V	.	Q	.	.	.
16.833	990.4960	2205.82	.	.V	.	Q	.	.	.
16.917	1005.9131	2238.55	.	.V	.	Q	.	.	.
17.000	1021.4951	2262.52	.	.V	.	Q	.	.	.
17.083	1037.2212	2283.42	.	.V	.	Q	.	.	.
17.167	1053.1191	2308.38	.	.V	.	Q	.	.	.
17.250	1069.2832	2347.02	.	.V	.	Q	.	.	.
17.333	1085.8564	2406.43	.	.V	.	Q	.	.	.
17.417	1102.6521	2438.73	.	.V	.	Q	.	.	.
17.500	1119.6636	2470.06	.	.V	.	Q	.	.	.
17.583	1136.9604	2511.50	.	.V	.	Q	.	.	.
17.667	1154.4261	2536.01	.	.V	.	Q	.	.	.
17.750	1172.2432	2587.03	.	.V	.	Q	.	.	.
17.833	1190.3204	2624.82	.	.V	.	Q	.	.	.
17.917	1208.5076	2640.77	.	.V	.	Q	.	.	.
18.000	1226.8207	2659.07	.	.V	.	Q	.	.	.
18.083	1245.3051	2683.92	.	.V	.	Q	.	.	.
18.167	1264.0177	2717.07	.	.V	.	Q	.	.	.
18.250	1283.3397	2805.55	.	.V	.	Q	.	.	.
18.333	1302.6091	2797.92	.	.V	.	Q	.	.	.
18.417	1321.6868	2770.08	.	.V	.	Q	.	.	.

18.500	1340.8252	2778.89	.	.	.	V	.	Q	.
18.583	1360.0934	2797.75	.	.	.	V	.	Q	.
18.667	1379.7026	2847.26	.	.	.	V	.	Q	.
18.750	1399.5188	2877.31	.	.	.	V	.	Q	.
18.833	1419.4563	2894.93	.	.	.	V	.	Q	.
18.917	1439.0452	2844.30	.	.	.	.V	.	Q	.
19.000	1458.6454	2845.96	.	.	.	.V	.	Q	.
19.083	1478.2367	2844.65	.	.	.	.V	.	Q	.
19.167	1498.1405	2890.04	.	.	.	.V	.	Q	.
19.250	1518.1300	2902.48	.	.	.	.V	.	Q	.
19.333	1537.9397	2876.36	.	.	.	.V	.	Q	.
19.417	1558.1411	2933.25	.	.	.	.V	.	Q	.
19.500	1578.0227	2886.80	.	.	.	.V	.	Q	.
19.583	1597.4166	2816.00	.	.	.	.V	.	Q	.
19.667	1616.6432	2791.69	.	.	.	.V	.	Q	.
19.750	1636.8170	2929.23	.	.	.	.V	.	Q	.
19.833	1656.7032	2887.48	.	.	.	.V	.	Q	.
19.917	1676.5177	2877.06	.	.	.	.V	.	Q	.
20.000	1696.1661	2852.96	.	.	.	.V	.	Q	.
20.083	1715.8938	2864.46	.	.	.	.V	.	Q	.
20.167	1735.8019	2890.65	.	.	.	.V	.	Q	.
20.250	1754.9192	2775.84	.	.	.	.V	.	Q	.
20.333	1773.6193	2715.25	.	.	.	.V	.	Q	.
20.417	1792.1783	2694.78	.	.	.	.V	.	Q	.
20.500	1810.5802	2671.95	.	.	.	.V	.	Q	.
20.583	1829.0687	2684.53	.	.	.	.V	.	Q	.
20.667	1847.6997	2705.22	.	.	.	.V	.	Q	.
20.750	1866.4275	2719.27	.	.	.	.V	.	Q	.
20.833	1885.0769	2707.90	.	.	.	.V	.	Q	.
20.917	1903.0228	2605.74	.	.	.	.V	.	Q	.
21.000	1920.5320	2542.34	.	.	.	.V	.	Q	.
21.083	1937.8352	2512.44	.	.	.	.V	.	Q	.
21.167	1955.0477	2499.26	.	.	.	.V	.	Q	.
21.250	1972.2700	2500.67	.	.	.	.V	.	Q	.
21.333	1988.9421	2420.78	.	.	.	.V	.	Q	.
21.417	2005.3856	2387.60	.	.	.	.V	.	Q	.
21.500	2021.7305	2373.28	.	.	.	.V	.	Q	.
21.583	2037.8566	2341.51	.	.	.	.V	.	Q	.
21.667	2053.6792	2297.46	.	.	.	.Q	.	.	.
21.750	2068.9438	2216.44	.	.	.	.QV	.	.	.
21.833	2083.9224	2174.88	.	.	.	.Q	.	V	.
21.917	2098.6646	2140.57	.	.	.	.Q	.	V	.
22.000	2113.1970	2110.11	.	.	.	.Q	.	.V	.
22.083	2127.5269	2080.69	.	.	.	.Q	.	.V	.
22.167	2141.5886	2041.77	.	.	.	.Q	.	.V	.
22.250	2155.3281	1994.98	.	.	.	.Q	.	.V	.
22.333	2168.8057	1956.93	.	.	.	.Q	.	.V	.
22.417	2182.0527	1923.48	.	.	.	.Q	.	.V	.
22.500	2195.0278	1883.98	.	.	.	.Q	.	.V	.
22.583	2207.7720	1850.45	.	.	.	.Q	.	.V	.
22.667	2220.1921	1803.40	.	.	.	.Q	.	.V	.
22.750	2232.3091	1759.39	.	.	.	.Q	.	.V	.
22.833	2244.1682	1721.93	.	.	.	.Q	.	.V	.
22.917	2255.7434	1680.71	.	.	.	.Q	.	.V	.
23.000	2267.0110	1636.05	.	.	.	.Q	.	.V	.
23.083	2278.0737	1606.29	.	.	.	.Q	.	.V	.
23.167	2288.9275	1575.98	.	.	.	.Q	.	.V	.
23.250	2299.5459	1541.80	.	.	.	.Q	.	.V	.

23.333	2309.9224	1506.66	.	.	Q	.	V	.
23.417	2320.0996	1477.73	.	.	Q.	.	V	.
23.500	2330.0874	1450.23	.	.	Q.	.	V	.
23.583	2339.8870	1422.91	.	.	Q.	.	V	.
23.667	2349.4873	1393.98	.	.	Q.	.	V	.
23.750	2358.9062	1367.62	.	.	Q.	.	V	.
23.833	2368.1672	1344.71	.	.	Q	.	V	.
23.917	2377.2708	1321.85	.	.	Q	.	V	.
24.000	2386.2166	1298.94	.	.	Q	.	V	.
24.083	2394.9644	1270.19	.	.	Q	.	V	.
24.167	2403.4502	1232.16	.	.	Q	.	V	.
24.250	2411.7795	1209.42	.	.	Q	.	V	.
24.333	2419.9658	1188.67	.	.	Q	.	V	.
24.417	2428.0137	1168.56	.	.	Q	.	V	.
24.500	2435.9192	1147.88	.	.	Q	.	V	.
24.583	2443.6802	1126.89	.	.	Q	.	V	.
24.667	2451.3005	1106.49	.	.	Q	.	V	.
24.750	2458.7458	1081.07	.	.	Q	.	V	.
24.833	2465.9878	1051.54	.	.	Q	.	V	.
24.917	2473.1021	1032.98	.	.	Q	.	V	.
25.000	2480.0969	1015.67	.	.	Q	.	V	.
25.083	2486.9758	998.83	.	.	Q	.	V	.
25.167	2493.7480	983.32	.	.	Q	.	V	.
25.250	2500.4155	968.10	.	.	Q	.	V	.
25.333	2506.9736	952.22	.	.	Q	.	V	.
25.417	2513.4207	936.11	.	.	Q	.	V	.
25.500	2519.7576	920.12	.	.	Q	.	V	.
25.583	2525.9780	903.22	.	.	Q	.	V	.
25.667	2532.0784	885.78	.	.	Q	.	V	.
25.750	2538.0493	866.97	.	.	Q	.	V	.
25.833	2543.8123	836.79	.	.	Q	.	V	.
25.917	2549.4138	813.33	.	.	Q	.	V	.
26.000	2554.9038	797.16	.	.	Q	.	V	.
26.083	2560.2888	781.90	.	.	Q	.	V	.
26.167	2565.5691	766.69	.	.	Q	.	V	.
26.250	2570.7258	748.77	.	.	Q	.	V	.
26.333	2575.7617	731.19	.	.	Q.	.	V	.
26.417	2580.6870	715.16	.	.	Q.	.	V	.
26.500	2585.5020	699.12	.	.	Q.	.	V	.
26.583	2590.2078	683.27	.	.	Q.	.	V	.
26.667	2594.7959	666.20	.	.	Q	.	V	.
26.750	2599.2644	648.83	.	.	Q	.	V	.
26.833	2603.6196	632.38	.	.	Q	.	V	.
26.917	2607.8804	618.66	.	.	Q	.	V	.
27.000	2612.0469	604.99	.	.	Q	.	V	.
27.083	2616.1228	591.84	.	.	Q	.	V	.
27.167	2620.0979	577.19	.	.	Q	.	V	.
27.250	2623.9675	561.86	.	.	Q	.	V	.
27.333	2627.7407	547.86	.	.	Q	.	V	.
27.417	2631.3970	530.88	.	.	Q	.	V	.
27.500	2634.9473	515.49	.	.	Q	.	V	.
27.583	2638.4045	501.99	.	.	Q	.	V	.
27.667	2641.7798	490.07	.	.	Q	.	V	.
27.750	2645.0366	472.88	.	.	Q	.	V	.
27.833	2648.1895	457.79	.	.	Q	.	V	.
27.917	2651.2415	443.15	.	Q	.	.	V	.
28.000	2654.1946	428.80	.	Q	.	.	V	.
28.083	2657.0452	413.92	.	Q	.	.	V	.

28.167	2659.7805	397.18	.	Q	.	.	.	V.
28.250	2662.4236	383.78	.	Q	.	.	.	V.
28.333	2664.9829	371.62	.	Q	.	.	.	V.
28.417	2667.4602	359.69	.	Q	.	.	.	V.
28.500	2669.8596	348.39	.	Q	.	.	.	V.
28.583	2672.1765	336.40	.	Q	.	.	.	V.
28.667	2674.4043	323.48	.	Q	.	.	.	V.
28.750	2676.5342	309.25	.	Q	.	.	.	V.
28.833	2678.5603	294.19	.	Q	.	.	.	V.
28.917	2680.5007	281.74	.	Q	.	.	.	V.
29.000	2682.3655	270.77	.	Q	.	.	.	V.
29.083	2684.1582	260.30	.	Q	.	.	.	V.
29.167	2685.8772	249.60	.	Q	.	.	.	V.
29.250	2687.5159	237.92	.	Q	.	.	.	V.
29.333	2689.0884	228.33	.	Q	.	.	.	V.
29.417	2690.5964	218.96	.	Q	.	.	.	V.
29.500	2692.0366	209.13	.	Q	.	.	.	V.
29.583	2693.4119	199.69	.	Q	.	.	.	V.
29.667	2694.7297	191.34	.	Q	.	.	.	V.
29.750	2696.0005	184.50	.	Q	.	.	.	V.
29.833	2697.2249	177.79	.	Q	.	.	.	V.
29.917	2698.4031	171.09	.	Q	.	.	.	V.
30.000	2699.5361	164.52	.	Q	.	.	.	V.
30.083	2700.6223	157.71	.	Q	.	.	.	V.
30.167	2701.6592	150.55	.	Q	.	.	.	V.
30.250	2702.6460	143.27	.	Q	.	.	.	V.
30.333	2703.5486	131.05	.	Q	.	.	.	V.
30.417	2704.4087	124.90	.	Q	.	.	.	V.
30.500	2705.2297	119.20	.	Q	.	.	.	V.
30.583	2706.0125	113.66	.	Q	.	.	.	V.
30.667	2706.7576	108.18	.	Q	.	.	.	V.
30.750	2707.4675	103.08	.	Q	.	.	.	V.
30.833	2708.1423	97.97	.	Q	.	.	.	V.
30.917	2708.7842	93.18	.	Q	.	.	.	V.
31.000	2709.3967	88.93	.	Q	.	.	.	V.
31.083	2709.9800	84.69	.	Q	.	.	.	V.
31.167	2710.5342	80.46	.	Q	.	.	.	V.
31.250	2711.0598	76.31	.	Q	.	.	.	V.
31.333	2711.5608	72.74	Q	.	.	.	.	V.
31.417	2712.0376	69.22	Q	.	.	.	.	V.
31.500	2712.4902	65.73	Q	.	.	.	.	V.
31.583	2712.9192	62.27	Q	.	.	.	.	V.
31.667	2713.3252	58.94	Q	.	.	.	.	V.
31.750	2713.7092	55.77	Q	.	.	.	.	V.
31.833	2714.0718	52.63	Q	.	.	.	.	V.
31.917	2714.4128	49.51	Q	.	.	.	.	V.
32.000	2714.7324	46.42	Q	.	.	.	.	V.
32.083	2715.0322	43.52	Q	.	.	.	.	V.
32.167	2715.3159	41.18	Q	.	.	.	.	V.
32.250	2715.5837	38.91	Q	.	.	.	.	V.
32.333	2715.8389	37.05	Q	.	.	.	.	V.
32.417	2716.0813	35.21	Q	.	.	.	.	V.
32.500	2716.3113	33.38	Q	.	.	.	.	V.
32.583	2716.5288	31.59	Q	.	.	.	.	V.
32.667	2716.7341	29.80	Q	.	.	.	.	V.
32.750	2716.9285	28.23	Q	.	.	.	.	V.
32.833	2717.1147	27.05	Q	.	.	.	.	V.
32.917	2717.2930	25.88	Q	.	.	.	.	V.



33.000	2717.4631	24.73	Q	.	.	.	V.
33.083	2717.6255	23.58	Q	.	.	.	V.
33.167	2717.7800	22.45	Q	.	.	.	V.
33.250	2717.9270	21.33	Q	.	.	.	V.
33.333	2718.0662	20.22	Q	.	.	.	V.
33.417	2718.1978	19.11	Q	.	.	.	V.
33.500	2718.3218	18.02	Q	.	.	.	V.
33.583	2718.4385	16.94	Q	.	.	.	V.
33.667	2718.5479	15.87	Q	.	.	.	V.
33.750	2718.6499	14.82	Q	.	.	.	V.
33.833	2718.7478	14.22	Q	.	.	.	V.
33.917	2718.8433	13.88	Q	.	.	.	V.
34.000	2718.9365	13.54	Q	.	.	.	V.
34.083	2719.0273	13.20	Q	.	.	.	V.
34.167	2719.1160	12.87	Q	.	.	.	V.
34.250	2719.2024	12.54	Q	.	.	.	V.
34.333	2719.2866	12.22	Q	.	.	.	V.
34.417	2719.3687	11.90	Q	.	.	.	V.
34.500	2719.4485	11.58	Q	.	.	.	V.
34.583	2719.5261	11.27	Q	.	.	.	V.
34.667	2719.6016	10.96	Q	.	.	.	V.
34.750	2719.6750	10.65	Q	.	.	.	V.
34.833	2719.7463	10.35	Q	.	.	.	V.
34.917	2719.8154	10.05	Q	.	.	.	V.
35.000	2719.8826	9.76	Q	.	.	.	V.
35.083	2719.9478	9.46	Q	.	.	.	V.
35.167	2720.0110	9.17	Q	.	.	.	V.
35.250	2720.0723	8.88	Q	.	.	.	V.
35.333	2720.1313	8.59	Q	.	.	.	V.
35.417	2720.1885	8.31	Q	.	.	.	V.
35.500	2720.2437	8.02	Q	.	.	.	V.
35.583	2720.2971	7.75	Q	.	.	.	V.
35.667	2720.3486	7.47	Q	.	.	.	V.
35.750	2720.3982	7.20	Q	.	.	.	V.
35.833	2720.4458	6.93	Q	.	.	.	V.
35.917	2720.4917	6.66	Q	.	.	.	V.
36.000	2720.5356	6.39	Q	.	.	.	V.

-----

TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
 (Note: 100% of Peak Flow Rate estimate assumed to have  
 an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
0%	2165.0
10%	1485.0
20%	1210.0
30%	805.0
40%	615.0
50%	500.0
60%	410.0
70%	335.0
80%	260.0
90%	180.0

=====

END OF FLOODSCx ROUTING ANALYSIS

\*\*\*\*\*

FLOOD ROUTING ANALYSIS
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)
(c) Copyright 1989-2013 Advanced Engineering Software (aes)
Ver. 20.0 Release Date: 06/01/2013 License ID 1264

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*
\* RANCHO MISSION VIEJJO - SINGLE AREA UH \*
\* ULTIMATE CONDITION - REGIONAL NODE 119 \*
\* 10-YR EV SEPTEMBER 2018 ROKAMOTO \*

FILE NAME: EV10119S.DAT
TIME/DATE OF STUDY: 15:52 09/27/2018

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 119.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<

\*\*\*\*\*

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 49495.699 ACRES
BASEFLOW = 0.000 CFS/SQUARE-MILE
\*USER ENTERED "LAG" TIME = 2.320 HOURS
VALLEY (DEVELOPED) S-GRAPH SELECTED
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.298
LOW LOSS FRACTION = 0.746
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.33
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.63
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 0.88
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 1.65
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 2.45
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 4.32

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:
5-MINUTE FACTOR = 0.345
30-MINUTE FACTOR = 0.395
1-HOUR FACTOR = 0.435
3-HOUR FACTOR = 0.785
6-HOUR FACTOR = 0.904
24-HOUR FACTOR = 0.944

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 3.592

UNIT HYDROGRAPH DETERMINATION

Table with 3 columns: INTERVAL NUMBER, "S" GRAPH MEAN VALUES, UNIT HYDROGRAPH ORDINATES (CFS). Rows 1-48.

49	90.090	4953.043
50	90.853	4564.083
51	91.609	4526.635
52	92.330	4317.518
53	93.015	4096.207
54	93.698	4092.919
55	94.255	3332.947
56	94.711	2730.805
57	95.167	2729.161
58	95.624	2730.805
59	96.040	2493.191
60	96.331	1741.347
61	96.613	1685.997
62	96.894	1685.997
63	97.176	1685.997
64	97.458	1685.997
65	97.740	1687.641
66	97.986	1476.058
67	98.072	514.275
68	98.140	403.574
69	98.207	405.218
70	98.274	401.976
71	98.342	403.620
72	98.409	401.976
73	98.476	403.574
74	98.544	403.620
75	98.611	403.574
76	98.679	403.620
77	98.746	400.332
78	98.813	403.620
79	98.881	406.817
80	98.948	400.377
81	99.015	403.574
82	99.082	400.377
83	99.149	400.377
84	99.216	400.377
85	99.283	400.377
86	99.350	400.377
87	99.417	400.377
88	99.483	400.377
89	99.550	400.377
90	99.617	400.377
91	99.684	400.377
92	99.751	400.377
93	99.818	400.377
94	99.885	400.377
95	99.952	400.377
96	100.000	289.402

-----  
TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 11932.6064  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 4873.3203  
-----

=====

2 4 - 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 FIVE-MINUTE UNIT INTERVALS (CFS)  
(Note: Time indicated is at END of Each Unit Intervals)

TIME (HRS)	VOLUME (AF)	Q (CFS)	0.	1800.0	3600.0	5400.0	7200.0
0.083	0.0134	1.95	Q	.	.	.	.
0.167	0.0536	5.84	Q	.	.	.	.
0.250	0.1208	9.75	Q	.	.	.	.
0.333	0.2149	13.67	Q	.	.	.	.
0.417	0.3362	17.62	Q	.	.	.	.
0.500	0.4934	22.82	Q	.	.	.	.
0.583	0.6917	28.80	Q	.	.	.	.
0.667	0.9315	34.81	Q	.	.	.	.
0.750	1.2274	42.97	Q	.	.	.	.
0.833	1.5995	54.03	Q	.	.	.	.
0.917	2.0636	67.39	Q	.	.	.	.
1.000	2.6377	83.35	Q	.	.	.	.
1.083	3.3356	101.34	Q	.	.	.	.
1.167	4.1529	118.68	Q	.	.	.	.
1.250	5.1023	137.85	Q	.	.	.	.
1.333	6.2111	161.00	Q	.	.	.	.
1.417	7.4486	179.68	Q	.	.	.	.
1.500	8.8250	199.86	VQ	.	.	.	.
1.583	10.3741	224.93	VQ	.	.	.	.
1.667	12.0758	247.09	VQ	.	.	.	.
1.750	13.9195	267.70	VQ	.	.	.	.
1.833	15.9380	293.09	VQ	.	.	.	.
1.917	18.1446	320.39	VQ	.	.	.	.
2.000	20.5481	348.98	VQ	.	.	.	.
2.083	23.1108	372.12	V Q	.	.	.	.
2.167	25.9016	405.22	V Q	.	.	.	.
2.250	28.9122	437.13	V Q	.	.	.	.
2.333	32.1674	472.66	V Q	.	.	.	.
2.417	35.6410	504.36	V Q	.	.	.	.
2.500	39.2931	530.28	V Q	.	.	.	.
2.583	43.1236	556.19	V Q	.	.	.	.
2.667	47.1719	587.82	V Q	.	.	.	.
2.750	51.4566	622.13	V Q	.	.	.	.
2.833	55.9242	648.70	V Q	.	.	.	.
2.917	60.5688	674.39	V Q	.	.	.	.
3.000	65.3908	700.16	V Q	.	.	.	.
3.083	70.3731	723.43	V Q	.	.	.	.
3.167	75.5168	746.86	V Q	.	.	.	.
3.250	80.7913	765.87	V Q	.	.	.	.
3.333	86.1870	783.45	V Q	.	.	.	.
3.417	91.7058	801.33	V Q	.	.	.	.
3.500	97.3506	819.62	V Q	.	.	.	.
3.583	103.1128	836.68	V Q	.	.	.	.
3.667	108.9856	852.73	V Q	.	.	.	.
3.750	114.9612	867.65	V Q	.	.	.	.
3.833	121.0289	881.02	V Q	.	.	.	.
3.917	127.1801	893.15	.V Q	.	.	.	.

4.000	133.4068	904.12	.V	Q	.	.	.	.
4.083	139.7080	914.94	.V	Q	.	.	.	.
4.167	146.0801	925.23	.V	Q	.	.	.	.
4.250	152.5228	935.47	.V	Q	.	.	.	.
4.333	159.0342	945.47	.V	Q	.	.	.	.
4.417	165.6123	955.13	.V	Q	.	.	.	.
4.500	172.2574	964.87	.V	Q	.	.	.	.
4.583	178.9614	973.43	.V	Q	.	.	.	.
4.667	185.7184	981.11	.V	Q	.	.	.	.
4.750	192.5283	988.80	.V	Q	.	.	.	.
4.833	199.3917	996.57	.V	Q	.	.	.	.
4.917	206.3061	1003.98	.V	Q	.	.	.	.
5.000	213.2639	1010.27	.V	Q	.	.	.	.
5.083	220.2646	1016.49	.V	Q	.	.	.	.
5.167	227.3086	1022.79	.V	Q	.	.	.	.
5.250	234.3961	1029.10	.V	Q	.	.	.	.
5.333	241.5275	1035.48	.V	Q	.	.	.	.
5.417	248.7029	1041.88	.V	Q	.	.	.	.
5.500	255.9207	1048.02	.V	Q	.	.	.	.
5.583	263.1704	1052.66	.V	Q	.	.	.	.
5.667	270.4514	1057.19	.V	Q	.	.	.	.
5.750	277.7636	1061.73	.V	Q	.	.	.	.
5.833	285.1076	1066.35	.V	Q	.	.	.	.
5.917	292.4835	1070.98	.V	Q	.	.	.	.
6.000	299.8918	1075.68	.V	Q	.	.	.	.
6.083	307.3326	1080.40	.V	Q	.	.	.	.
6.167	314.8064	1085.20	.V	Q	.	.	.	.
6.250	322.3134	1090.01	.V	Q	.	.	.	.
6.333	329.8541	1094.91	.V	Q	.	.	.	.
6.417	337.4285	1099.81	.V	Q	.	.	.	.
6.500	345.0373	1104.80	.V	Q	.	.	.	.
6.583	352.6806	1109.81	.V	Q	.	.	.	.
6.667	360.3589	1114.90	.V	Q	.	.	.	.
6.750	368.0725	1120.00	.V	Q	.	.	.	.
6.833	375.8218	1125.20	.V	Q	.	.	.	.
6.917	383.6070	1130.41	.V	Q	.	.	.	.
7.000	391.4287	1135.71	.V	Q	.	.	.	.
7.083	399.2870	1141.03	.V	Q	.	.	.	.
7.167	407.1827	1146.45	.V	Q	.	.	.	.
7.250	415.1158	1151.88	.V	Q	.	.	.	.
7.333	423.0869	1157.42	.V	Q	.	.	.	.
7.417	431.0964	1162.97	.V	Q	.	.	.	.
7.500	439.1448	1168.63	.V	Q	.	.	.	.
7.583	447.2323	1174.31	.V	Q	.	.	.	.
7.667	455.3597	1180.09	.V	Q	.	.	.	.
7.750	463.5271	1185.90	.V	Q	.	.	.	.
7.833	471.7352	1191.82	.V	Q	.	.	.	.
7.917	479.9843	1197.76	.V	Q	.	.	.	.
8.000	488.2738	1203.64	.V	Q	.	.	.	.
8.083	496.6009	1209.09	.V	Q	.	.	.	.
8.167	504.9662	1214.66	.V	Q	.	.	.	.
8.250	513.3701	1220.24	.V	Q	.	.	.	.
8.333	521.8134	1225.96	.V	Q	.	.	.	.
8.417	530.2961	1231.69	.V	Q	.	.	.	.
8.500	538.8192	1237.56	.V	Q	.	.	.	.
8.583	547.3829	1243.45	.V	Q	.	.	.	.
8.667	555.9882	1249.48	.V	Q	.	.	.	.
8.750	564.6351	1255.53	.V	Q	.	.	.	.

8.833	573.3246	1261.73	.V	Q	.	.	.	.
8.917	582.0571	1267.95	.V	Q	.	.	.	.
9.000	590.8335	1274.32	.V	Q	.	.	.	.
9.083	599.6539	1280.73	.V	Q	.	.	.	.
9.167	608.5195	1287.28	.V	Q	.	.	.	.
9.250	617.4305	1293.87	.V	Q	.	.	.	.
9.333	626.3879	1300.62	.V	Q	.	.	.	.
9.417	635.3920	1307.40	.V	Q	.	.	.	.
9.500	644.4440	1314.35	.V	Q	.	.	.	.
9.583	653.5442	1321.34	.V	Q	.	.	.	.
9.667	662.6937	1328.51	.V	Q	.	.	.	.
9.750	671.8928	1335.71	.V	Q	.	.	.	.
9.833	681.1428	1343.10	.V	Q	.	.	.	.
9.917	690.4440	1350.54	.V	Q	.	.	.	.
10.000	699.7977	1358.16	.V	Q	.	.	.	.
10.083	709.2043	1365.84	.V	Q	.	.	.	.
10.167	718.6651	1373.71	.V	Q	.	.	.	.
10.250	728.1805	1381.64	.V	Q	.	.	.	.
10.333	737.7520	1389.77	.V	Q	.	.	.	.
10.417	747.3798	1397.97	.V	Q	.	.	.	.
10.500	757.0657	1406.38	.V	Q	.	.	.	.
10.583	766.8099	1414.86	.V	Q	.	.	.	.
10.667	776.6141	1423.57	.V	Q	.	.	.	.
10.750	786.4788	1432.35	.V	Q	.	.	.	.
10.833	796.4056	1441.37	.V	Q	.	.	.	.
10.917	806.3951	1450.47	.V	Q	.	.	.	.
11.000	816.4489	1459.82	.V	Q	.	.	.	.
11.083	826.5677	1469.26	.V	Q	.	.	.	.
11.167	836.7534	1478.96	.V	Q	.	.	.	.
11.250	847.0065	1488.75	.V	Q	.	.	.	.
11.333	857.3290	1498.83	.V	Q	.	.	.	.
11.417	867.7217	1509.01	.V	Q	.	.	.	.
11.500	878.1865	1519.49	.V	Q	.	.	.	.
11.583	888.7242	1530.08	.V	Q	.	.	.	.
11.667	899.3370	1540.98	.V	Q	.	.	.	.
11.750	910.0257	1552.01	.V	Q	.	.	.	.
11.833	920.7927	1563.37	.V	Q	.	.	.	.
11.917	931.6388	1574.86	.V	Q	.	.	.	.
12.000	942.5666	1586.71	.V	Q	.	.	.	.
12.083	953.5992	1601.93	.V	Q	.	.	.	.
12.167	964.7612	1620.73	.V	Q	.	.	.	.
12.250	976.0536	1639.66	.V	Q	.	.	.	.
12.333	987.4790	1658.97	.V	Q	.	.	.	.
12.417	999.0385	1678.44	.V	Q	.	.	.	.
12.500	1010.7491	1700.37	.V	Q	.	.	.	.
12.583	1022.6205	1723.73	.V	Q	.	.	.	.
12.667	1034.6556	1747.50	.V	Q	.	.	.	.
12.750	1046.8799	1774.96	.V	Q	.	.	.	.
12.833	1059.3291	1807.62	.V	Q	.	.	.	.
12.917	1072.0298	1844.15	.V	Q	.	.	.	.
13.000	1085.0142	1885.33	.V	Q	.	.	.	.
13.083	1098.3055	1929.91	.V	Q	.	.	.	.
13.167	1111.8988	1973.74	.V	Q	.	.	.	.
13.250	1125.8149	2020.63	.V	Q	.	.	.	.
13.333	1140.1017	2074.43	.V	Q	.	.	.	.
13.417	1154.7080	2120.84	.V	Q	.	.	.	.
13.500	1169.6534	2170.08	.V	Q	.	.	.	.
13.583	1184.9940	2227.45	.V	Q	.	.	.	.

13.667	1200.6987	2280.33	.	V.	Q	.	.	.
13.750	1216.7504	2330.69	.	V.	Q	.	.	.
13.833	1233.2059	2389.35	.	V	Q	.	.	.
13.917	1250.0875	2451.21	.	V	Q	.	.	.
14.000	1267.4124	2515.56	.	V	Q	.	.	.
14.083	1285.1837	2580.40	.	V	Q	.	.	.
14.167	1303.5819	2671.42	.	V	Q	.	.	.
14.250	1322.5896	2759.91	.	V	Q	.	.	.
14.333	1342.2457	2854.07	.	.V	Q	.	.	.
14.417	1362.5031	2941.36	.	.V	Q	.	.	.
14.500	1383.3351	3024.81	.	.V	Q	.	.	.
14.583	1404.7631	3111.34	.	.V	Q	.	.	.
14.667	1426.8479	3206.73	.	.V	Q	.	.	.
14.750	1449.6857	3316.04	.	.V	Q	.	.	.
14.833	1473.2781	3425.62	.	.V	Q.	.	.	.
14.917	1497.6792	3543.03	.	.V	Q.	.	.	.
15.000	1522.9635	3671.29	.	.V	Q	.	.	.
15.083	1549.1509	3802.42	.	.V	.Q	.	.	.
15.167	1576.2012	3927.70	.	.V	.Q	.	.	.
15.250	1604.1013	4051.10	.	.V	.Q	.	.	.
15.333	1632.9460	4188.25	.	.V	.Q	.	.	.
15.417	1662.5122	4293.00	.	.V	.Q	.	.	.
15.500	1692.7864	4395.81	.	.V	.Q	.	.	.
15.583	1723.9030	4518.13	.	.V	.Q	.	.	.
15.667	1755.7310	4621.42	.	.V	.Q	.	.	.
15.750	1788.1705	4710.23	.	.V	.Q	.	.	.
15.833	1821.3066	4811.37	.	.V	.Q	.	.	.
15.917	1855.1653	4916.27	.	.V	.Q	.	.	.
16.000	1889.8351	5034.05	.	.V	.Q	.	.	.
16.083	1925.7271	5211.51	.	.V	.Q	.	.	.
16.167	1962.9885	5410.36	.	.V	.Q	.	.	.
16.250	2000.8141	5492.27	.	.V	.Q	.	.	.
16.333	2039.2413	5579.63	.	.V	.Q	.	.	.
16.417	2078.1628	5651.41	.	.V	.Q	.	.	.
16.500	2117.8293	5759.57	.	.V	.Q	.	.	.
16.583	2158.0139	5834.79	.	.V	.Q	.	.	.
16.667	2198.6172	5895.58	.	.V	.Q	.	.	.
16.750	2240.6296	6100.20	.	.V	.Q	.	.	.
16.833	2284.0205	6300.34	.	.V	.Q	.	.	.
16.917	2328.4409	6449.86	.	.V	.Q	.	.	.
17.000	2373.9922	6614.06	.	.V	.Q	.	.	.
17.083	2420.3450	6730.43	.	.V	.Q	.	.	.
17.167	2466.5342	6706.67	.	.V	.Q	.	.	.
17.250	2513.3103	6791.89	.	.V	.Q	.	.	.
17.333	2561.1438	6945.43	.	.V	.Q	.	.	.
17.417	2607.5645	6740.28	.	.V	.Q	.	.	.
17.500	2654.4817	6812.39	.	.V	.Q	.	.	.
17.583	2702.7874	7013.97	.	.V	.Q	.	.	.
17.667	2749.8604	6834.98	.	.V	.Q	.	.	.
17.750	2796.4116	6759.25	.	.V	.Q	.	.	.
17.833	2844.5334	6987.30	.	.V	.Q	.	.	.
17.917	2893.1746	7062.71	.	.V	.Q	.	.	.
18.000	2941.6309	7035.86	.	.V	.Q	.	.	.
18.083	2987.9226	6721.58	.	.V	.Q	.	.	.
18.167	3037.4155	7186.36	.	.V	.Q	.	.	.
18.250	3086.3203	7100.96	.	.V	.Q	.	.	.
18.333	3135.8777	7195.74	.	.V	.Q	.	.	.
18.417	3183.4756	6911.21	.	.V	.Q	.	.	.

18.500	3228.9155	6597.88	.	.	.	V	.	Q	.
18.583	3274.3738	6600.54	.	.	.	V	.	Q	.
18.667	3321.8652	6895.76	.	.	.	V	.	Q	.
18.750	3369.9246	6978.21	.	.	.	V	.	Q	.
18.833	3414.7981	6515.63	.	.	.	V	.	Q	.
18.917	3458.8833	6401.18	.	.	.	V	.	Q	.
19.000	3502.4314	6323.17	.	.	.	V	.	Q	.
19.083	3544.8967	6165.96	.	.	.	V.	.	Q	.
19.167	3586.5938	6054.40	.	.	.	V.	.	Q	.
19.250	3626.0554	5729.82	.	.	.	V.Q	.	.	.
19.333	3664.2573	5546.93	.	.	.	Q	.	.	.
19.417	3701.9236	5469.15	.	.	.	Q	.	.	.
19.500	3739.1841	5410.22	.	.	.	Q	.	.	.
19.583	3775.2712	5239.86	.	.	.	QV	.	.	.
19.667	3810.0217	5045.78	.	.	.	Q	.	V	.
19.750	3843.2913	4830.72	.	.	.	Q	.	V	.
19.833	3875.1182	4621.25	.	.	.	Q	.	V	.
19.917	3905.6401	4431.78	.	.	.	Q	.	V	.
20.000	3934.8752	4244.95	.	.	.	Q	.	V	.
20.083	3963.2927	4126.22	.	.	.	Q	.	V	.
20.167	3990.5864	3963.05	.	.	.	Q	.	V	.
20.250	4017.0771	3846.47	.	.	.	Q	.	V	.
20.333	4042.6692	3715.98	.	.	.	Q	.	V	.
20.417	4067.3752	3587.32	.	.	.	Q.	.	V	.
20.500	4091.2915	3472.65	.	.	.	Q.	.	V	.
20.583	4114.0396	3303.00	.	.	.	Q	.	V	.
20.667	4135.7075	3146.19	.	.	.	Q	.	V	.
20.750	4156.6216	3036.69	.	.	.	Q	.	V	.
20.833	4176.9097	2945.82	.	.	.	Q	.	V	.
20.917	4196.4736	2840.72	.	.	.	Q	.	V	.
21.000	4215.0894	2703.01	.	.	.	Q	.	V	.
21.083	4233.1763	2626.24	.	.	.	Q	.	V	.
21.167	4250.7822	2556.37	.	.	.	Q	.	V	.
21.250	4267.9590	2494.03	.	.	.	Q	.	V	.
21.333	4284.6987	2430.60	.	.	.	Q	.	V	.
21.417	4300.9761	2363.44	.	.	.	Q	.	V	.
21.500	4316.6201	2271.52	.	.	.	Q	.	V	.
21.583	4331.3184	2134.16	.	.	.	.Q	.	V	.
21.667	4345.5991	2073.57	.	.	.	.Q	.	V	.
21.750	4359.5410	2024.39	.	.	.	.Q	.	V	.
21.833	4373.1592	1977.37	.	.	.	Q	.	V	.
21.917	4386.4492	1929.70	.	.	.	Q	.	V	.
22.000	4399.4497	1887.69	.	.	.	Q	.	V	.
22.083	4412.1504	1844.12	.	.	.	Q	.	V	.
22.167	4424.5562	1801.32	.	.	.	Q	.	V	.
22.250	4436.6675	1758.58	.	.	.	Q.	.	V	.
22.333	4448.4883	1716.35	.	.	.	Q.	.	V	.
22.417	4460.0205	1674.51	.	.	.	Q.	.	V	.
22.500	4471.2803	1634.90	.	.	.	Q.	.	V	.
22.583	4482.3335	1604.95	.	.	.	Q.	.	V	.
22.667	4493.1968	1577.35	.	.	.	Q.	.	V	.
22.750	4503.8794	1551.12	.	.	.	Q.	.	V	.
22.833	4514.3823	1525.04	.	.	.	Q.	.	V	.
22.917	4524.7163	1500.46	.	.	.	Q.	.	V	.
23.000	4534.8979	1478.40	.	.	.	Q.	.	V	.
23.083	4544.9331	1457.09	.	.	.	Q.	.	V	.
23.167	4554.8252	1436.30	.	.	.	Q.	.	V	.
23.250	4564.5776	1416.08	.	.	.	Q.	.	V	.

23.333	4574.1987	1396.98	.	Q	.	.	.	V	.
23.417	4583.7021	1379.92	.	Q	.	.	.	V	.
23.500	4593.0938	1363.64	.	Q	.	.	.	V	.
23.583	4602.3916	1350.01	.	Q	.	.	.	V	.
23.667	4611.6001	1337.10	.	Q	.	.	.	V	.
23.750	4620.7236	1324.70	.	Q	.	.	.	V	.
23.833	4629.7612	1312.23	.	Q	.	.	.	V	.
23.917	4638.7041	1298.51	.	Q	.	.	.	V	.
24.000	4647.4829	1274.69	.	Q	.	.	.	V	.
24.083	4656.0049	1237.41	.	Q	.	.	.	V	.
24.167	4664.4214	1222.04	.	Q	.	.	.	V	.
24.250	4672.7344	1207.05	.	Q	.	.	.	V	.
24.333	4680.9434	1191.97	.	Q	.	.	.	V	.
24.417	4689.0391	1175.53	.	Q	.	.	.	V	.
24.500	4697.0127	1157.76	.	Q	.	.	.	V	.
24.583	4704.8584	1139.17	.	Q	.	.	.	V	.
24.667	4712.5762	1120.59	.	Q	.	.	.	V	.
24.750	4720.1514	1099.89	.	Q	.	.	.	V	.
24.833	4727.5645	1076.35	.	Q	.	.	.	V	.
24.917	4734.8003	1050.62	.	Q	.	.	.	V	.
25.000	4741.8477	1023.29	.	Q	.	.	.	V	.
25.083	4748.7100	996.42	.	Q	.	.	.	V	.
25.167	4755.3940	970.54	.	Q	.	.	.	V	.
25.250	4761.8896	943.17	.	Q	.	.	.	V	.
25.333	4768.1719	912.17	.	Q	.	.	.	V	.
25.417	4774.2734	885.98	.	Q	.	.	.	V	.
25.500	4780.1870	858.62	.	Q	.	.	.	V	.
25.583	4785.8804	826.70	.	Q	.	.	.	V	.
25.667	4791.3765	798.04	.	Q	.	.	.	V	.
25.750	4796.6880	771.24	.	Q	.	.	.	V	.
25.833	4801.7842	739.98	.	Q	.	.	.	V	.
25.917	4806.6543	707.14	.	Q	.	.	.	V	.
26.000	4811.2939	673.66	.	Q	.	.	.	V	.
26.083	4815.7480	646.74	.	Q	.	.	.	V	.
26.167	4819.9502	610.18	.	Q	.	.	.	V	.
26.250	4823.9116	575.17	.	Q	.	.	.	V	.
26.333	4827.6099	536.95	.	Q	.	.	.	V	.
26.417	4831.0737	502.92	.	Q	.	.	.	V	.
26.500	4834.3452	475.05	.	Q	.	.	.	V	.
26.583	4837.4268	447.46	.	Q	.	.	.	V	.
26.667	4840.2812	414.47	.	Q	.	.	.	V	.
26.750	4842.8921	379.12	.	Q	.	.	.	V	.
26.833	4845.3154	351.89	.	Q	.	.	.	V	.
26.917	4847.5591	325.79	.	Q	.	.	.	V	.
27.000	4849.6245	299.91	.	Q	.	.	.	V	.
27.083	4851.5308	276.78	.	Q	.	.	.	V	.
27.167	4853.2783	253.75	.	Q	.	.	.	V	.
27.250	4854.8994	235.36	.	Q	.	.	.	V	.
27.333	4856.4048	218.62	.	Q	.	.	.	V	.
27.417	4857.7939	201.73	.	Q	.	.	.	V	.
27.500	4859.0654	184.65	.	Q	.	.	.	V	.
27.583	4860.2290	168.97	.	Q	.	.	.	V	.
27.667	4861.2930	154.49	.	Q	.	.	.	V	.
27.750	4862.2661	141.27	.	Q	.	.	.	V	.
27.833	4863.1602	129.79	.	Q	.	.	.	V	.
27.917	4863.9844	119.65	.	Q	.	.	.	V	.
28.000	4864.7476	110.83	.	Q	.	.	.	V	.
28.083	4865.4517	102.23	.	Q	.	.	.	V	.

28.167	4866.1011	94.32	Q	.	.	.	.	V	.
28.250	4866.6968	86.51	Q	.	.	.	.	V	.
28.333	4867.2417	79.09	Q	.	.	.	.	V	.
28.417	4867.7383	72.07	Q	.	.	.	.	V	.
28.500	4868.1865	65.11	Q	.	.	.	.	V	.
28.583	4868.5957	59.39	Q	.	.	.	.	V	.
28.667	4868.9722	54.67	Q	.	.	.	.	V	.
28.750	4869.3164	49.98	Q	.	.	.	.	V	.
28.833	4869.6284	45.31	Q	.	.	.	.	V	.
28.917	4869.9111	41.06	Q	.	.	.	.	V	.
29.000	4870.1729	38.02	Q	.	.	.	.	V	.
29.083	4870.4146	35.10	Q	.	.	.	.	V	.
29.167	4870.6362	32.19	Q	.	.	.	.	V	.
29.250	4870.8379	29.30	Q	.	.	.	.	V	.
29.333	4871.0200	26.44	Q	.	.	.	.	V	.
29.417	4871.1826	23.59	Q	.	.	.	.	V	.
29.500	4871.3276	21.09	Q	.	.	.	.	V	.
29.583	4871.4663	20.13	Q	.	.	.	.	V	.
29.667	4871.5996	19.35	Q	.	.	.	.	V	.
29.750	4871.7275	18.58	Q	.	.	.	.	V	.
29.833	4871.8501	17.82	Q	.	.	.	.	V	.
29.917	4871.9678	17.06	Q	.	.	.	.	V	.
30.000	4872.0801	16.31	Q	.	.	.	.	V	.
30.083	4872.1870	15.56	Q	.	.	.	.	V	.
30.167	4872.2891	14.82	Q	.	.	.	.	V	.
30.250	4872.3862	14.08	Q	.	.	.	.	V	.
30.333	4872.4780	13.35	Q	.	.	.	.	V	.
30.417	4872.5649	12.63	Q	.	.	.	.	V	.
30.500	4872.6470	11.91	Q	.	.	.	.	V	.
30.583	4872.7241	11.19	Q	.	.	.	.	V	.
30.667	4872.7964	10.49	Q	.	.	.	.	V	.
30.750	4872.8638	9.78	Q	.	.	.	.	V	.
30.833	4872.9263	9.09	Q	.	.	.	.	V	.
30.917	4872.9839	8.40	Q	.	.	.	.	V	.
31.000	4873.0371	7.71	Q	.	.	.	.	V	.
31.083	4873.0854	7.03	Q	.	.	.	.	V	.
31.167	4873.1294	6.36	Q	.	.	.	.	V	.
31.250	4873.1685	5.69	Q	.	.	.	.	V	.
31.333	4873.2031	5.02	Q	.	.	.	.	V	.
31.417	4873.2329	4.36	Q	.	.	.	.	V	.
31.500	4873.2583	3.70	Q	.	.	.	.	V	.
31.583	4873.2793	3.04	Q	.	.	.	.	V	.
31.667	4873.2959	2.39	Q	.	.	.	.	V	.
31.750	4873.3081	1.74	Q	.	.	.	.	V	.
31.833	4873.3159	1.10	Q	.	.	.	.	V	.
31.917	4873.3188	0.46	Q	.	.	.	.	V	.

-----

TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:

(Note: 100% of Peak Flow Rate estimate assumed to have an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
0%	1915.0
10%	1370.0
20%	740.0
30%	485.0

40%	390.0
50%	325.0
60%	270.0
70%	220.0
80%	165.0
90%	115.0

=====

END OF FLOODSCx ROUTING ANALYSIS

\*\*\*\*\*

FLOOD ROUTING ANALYSIS
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)
(c) Copyright 1989-2013 Advanced Engineering Software (aes)
Ver. 20.0 Release Date: 06/01/2013 License ID 1237

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*
\* RMV PA-3 BODR 2022 - NODE 126 \*
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*
\* 10-YR EV JULY 2022 ROKAMOTO \*

FILE NAME: EV10126S.DAT
TIME/DATE OF STUDY: 11:40 07/25/2022

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 126.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<

\*\*\*\*\*

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 50438.699 ACRES
BASEFLOW = 0.000 CFS/SQUARE-MILE
\*USER ENTERED "LAG" TIME = 2.425 HOURS
VALLEY (DEVELOPED) S-GRAPH SELECTED
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.297
LOW LOSS FRACTION = 0.747
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.33
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.63
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 0.88
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 1.64
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 2.44
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 4.29

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:
5-MINUTE FACTOR = 0.341
30-MINUTE FACTOR = 0.392
1-HOUR FACTOR = 0.432
3-HOUR FACTOR = 0.782
6-HOUR FACTOR = 0.902
24-HOUR FACTOR = 0.943

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 3.436

UNIT HYDROGRAPH DETERMINATION

Table with 3 columns: INTERVAL NUMBER, "S" GRAPH MEAN VALUES, UNIT HYDROGRAPH ORDINATES (CFS). Rows 1-48.



49	88.333	5818.417
50	89.142	4937.811
51	89.942	4882.336
52	90.679	4494.017
53	91.403	4413.458
54	92.110	4316.332
55	92.769	4016.483
56	93.424	3993.911
57	94.036	3737.390
58	94.488	2757.981
59	94.925	2660.854
60	95.361	2662.623
61	95.797	2660.901
62	96.145	2118.306
63	96.414	1643.331
64	96.684	1645.053
65	96.953	1643.331
66	97.223	1645.099
67	97.492	1643.331
68	97.762	1643.331
69	97.993	1411.056
70	98.072	481.909
71	98.137	395.207
72	98.201	391.763
73	98.265	393.532
74	98.330	391.763
75	98.394	391.763
76	98.459	395.207
77	98.523	393.532
78	98.587	391.763
79	98.652	396.976
80	98.716	388.273
81	98.781	395.254
82	98.845	391.763
83	98.909	391.763
84	98.974	395.207
85	99.038	391.763
86	99.103	391.763
87	99.167	391.763
88	99.231	391.763
89	99.295	391.763
90	99.359	391.763
91	99.424	391.763
92	99.488	391.763
93	99.552	391.763
94	99.616	391.763
95	99.681	391.763
96	99.745	391.763
97	99.809	391.763
98	99.873	391.763
99	99.937	391.763
100	100.000	381.478

-----  
TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 12103.3701  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 4909.4194  
-----

2 4 - 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 FIVE-MINUTE UNIT INTERVALS (CFS)

(Note: Time indicated is at END of Each Unit Intervals)

TIME (HRS)	VOLUME (AF)	Q (CFS)	0.	1800.0	3600.0	5400.0	7200.0
0.083	0.0129	1.88	Q	.	.	.	.
0.167	0.0517	5.63	Q	.	.	.	.
0.250	0.1165	9.40	Q	.	.	.	.
0.333	0.2072	13.18	Q	.	.	.	.
0.417	0.3241	16.97	Q	.	.	.	.
0.500	0.4727	21.58	Q	.	.	.	.
0.583	0.6611	27.34	Q	.	.	.	.
0.667	0.8892	33.13	Q	.	.	.	.
0.750	1.1626	39.70	Q	.	.	.	.
0.833	1.5060	49.86	Q	.	.	.	.
0.917	1.9290	61.42	Q	.	.	.	.
1.000	2.4494	75.56	Q	.	.	.	.
1.083	3.0864	92.50	Q	.	.	.	.
1.167	3.8404	109.48	Q	.	.	.	.
1.250	4.7097	126.22	Q	.	.	.	.
1.333	5.7232	147.17	Q	.	.	.	.
1.417	6.8789	167.81	Q	.	.	.	.
1.500	8.1587	185.82	VQ	.	.	.	.
1.583	9.5793	206.27	VQ	.	.	.	.
1.667	11.1696	230.91	VQ	.	.	.	.
1.750	12.9022	251.58	VQ	.	.	.	.
1.833	14.7733	271.68	VQ	.	.	.	.
1.917	16.8147	296.42	VQ	.	.	.	.
2.000	19.0374	322.74	VQ	.	.	.	.
2.083	21.4532	350.78	VQ	.	.	.	.
2.167	24.0172	372.29	V Q	.	.	.	.
2.250	26.8018	404.32	V Q	.	.	.	.
2.333	29.7982	435.08	V Q	.	.	.	.
2.417	33.0205	467.88	V Q	.	.	.	.
2.500	36.4756	501.68	V Q	.	.	.	.
2.583	40.1058	527.10	V Q	.	.	.	.
2.667	43.9040	551.50	V Q	.	.	.	.
2.750	47.8949	579.49	V Q	.	.	.	.
2.833	52.1199	613.46	V Q	.	.	.	.
2.917	56.5440	642.39	V Q	.	.	.	.
3.000	61.1350	666.61	V Q	.	.	.	.
3.083	65.9067	692.85	V Q	.	.	.	.
3.167	70.8360	715.73	V Q	.	.	.	.
3.250	75.9244	738.84	V Q	.	.	.	.
3.333	81.1627	760.61	V Q	.	.	.	.
3.417	86.5218	778.14	V Q	.	.	.	.
3.500	91.9986	795.22	V Q	.	.	.	.
3.583	97.5961	812.76	V Q	.	.	.	.
3.667	103.3152	830.41	V Q	.	.	.	.
3.750	109.1480	846.92	V Q	.	.	.	.
3.833	115.0879	862.47	V Q	.	.	.	.
3.917	121.1280	877.03	V Q	.	.	.	.

4.000	127.2578	890.05	.V Q	.	.	.	.
4.083	133.4706	902.10	.V Q	.	.	.	.
4.167	139.7572	912.82	.V Q	.	.	.	.
4.250	146.1175	923.51	.V Q	.	.	.	.
4.333	152.5475	933.63	.V Q	.	.	.	.
4.417	159.0468	943.69	.V Q	.	.	.	.
4.500	165.6145	953.64	.V Q	.	.	.	.
4.583	172.2480	963.17	.V Q	.	.	.	.
4.667	178.9471	972.72	.V Q	.	.	.	.
4.750	185.7096	981.92	.V Q	.	.	.	.
4.833	192.5251	989.62	.V Q	.	.	.	.
4.917	199.3931	997.23	.V Q	.	.	.	.
5.000	206.3137	1004.87	.V Q	.	.	.	.
5.083	213.2874	1012.58	.V Q	.	.	.	.
5.167	220.3085	1019.46	.V Q	.	.	.	.
5.250	227.3723	1025.66	.V Q	.	.	.	.
5.333	234.4790	1031.90	.V Q	.	.	.	.
5.417	241.6290	1038.19	.V Q	.	.	.	.
5.500	248.8227	1044.51	. V Q	.	.	.	.
5.583	256.0602	1050.89	. V Q	.	.	.	.
5.667	263.3419	1057.31	. V Q	.	.	.	.
5.750	270.6658	1063.42	. V Q	.	.	.	.
5.833	278.0219	1068.11	. V Q	.	.	.	.
5.917	285.4098	1072.72	. V Q	.	.	.	.
6.000	292.8296	1077.36	. V Q	.	.	.	.
6.083	300.2817	1082.05	. V Q	.	.	.	.
6.167	307.7664	1086.78	. V Q	.	.	.	.
6.250	315.2841	1091.56	. V Q	.	.	.	.
6.333	322.8350	1096.39	. V Q	.	.	.	.
6.417	330.4195	1101.27	. V Q	.	.	.	.
6.500	338.0378	1106.19	. V Q	.	.	.	.
6.583	345.6905	1111.17	. V Q	.	.	.	.
6.667	353.3777	1116.18	. V Q	.	.	.	.
6.750	361.0999	1121.27	. V Q	.	.	.	.
6.833	368.8574	1126.39	. V Q	.	.	.	.
6.917	376.6506	1131.57	. V Q	.	.	.	.
7.000	384.4799	1136.80	. V Q	.	.	.	.
7.083	392.3456	1142.10	. V Q	.	.	.	.
7.167	400.2480	1147.44	. V Q	.	.	.	.
7.250	408.1877	1152.85	. V Q	.	.	.	.
7.333	416.1650	1158.30	. V Q	.	.	.	.
7.417	424.1804	1163.83	. V Q	.	.	.	.
7.500	432.2341	1169.40	. V Q	.	.	.	.
7.583	440.3267	1175.05	. V Q	.	.	.	.
7.667	448.4586	1180.75	. V Q	.	.	.	.
7.750	456.6303	1186.53	. V Q	.	.	.	.
7.833	464.8421	1192.35	. V Q	.	.	.	.
7.917	473.0946	1198.27	. V Q	.	.	.	.
8.000	481.3882	1204.23	. V Q	.	.	.	.
8.083	489.7235	1210.28	. V Q	.	.	.	.
8.167	498.1008	1216.39	. V Q	.	.	.	.
8.250	506.5208	1222.58	. V Q	.	.	.	.
8.333	514.9838	1228.82	. V Q	.	.	.	.
8.417	523.4862	1234.55	. V Q	.	.	.	.
8.500	532.0285	1240.34	. V Q	.	.	.	.
8.583	540.6113	1246.23	. V Q	.	.	.	.
8.667	549.2351	1252.17	. V Q	.	.	.	.
8.750	557.9005	1258.22	. V Q	.	.	.	.

8.833	566.6080	1264.33	.	V	Q	.	.	.	.
8.917	575.3583	1270.55	.	V	Q	.	.	.	.
9.000	584.1519	1276.83	.	V	Q	.	.	.	.
9.083	592.9896	1283.22	.	V	Q	.	.	.	.
9.167	601.8717	1289.68	.	V	Q	.	.	.	.
9.250	610.7991	1296.26	.	V	Q	.	.	.	.
9.333	619.7723	1302.91	.	V	Q	.	.	.	.
9.417	628.7922	1309.68	.	V	Q	.	.	.	.
9.500	637.8592	1316.53	.	V	Q	.	.	.	.
9.583	646.9742	1323.51	.	V	Q	.	.	.	.
9.667	656.1379	1330.56	.	V	Q	.	.	.	.
9.750	665.3510	1337.75	.	V	Q	.	.	.	.
9.833	674.6143	1345.03	.	V	Q	.	.	.	.
9.917	683.9286	1352.44	.	V	Q	.	.	.	.
10.000	693.2946	1359.94	.	V	Q	.	.	.	.
10.083	702.7133	1367.60	.	V	Q	.	.	.	.
10.167	712.1854	1375.34	.	V	Q	.	.	.	.
10.250	721.7119	1383.24	.	V	Q	.	.	.	.
10.333	731.2935	1391.25	.	V	Q	.	.	.	.
10.417	740.9313	1399.41	.	V	Q	.	.	.	.
10.500	750.6261	1407.69	.	V	Q	.	.	.	.
10.583	760.3791	1416.13	.	V	Q	.	.	.	.
10.667	770.1910	1424.69	.	V	Q	.	.	.	.
10.750	780.0632	1433.43	.	V	Q	.	.	.	.
10.833	789.9963	1442.30	.	V	Q	.	.	.	.
10.917	799.9919	1451.35	.	V	Q	.	.	.	.
11.000	810.0507	1460.54	.	V	Q	.	.	.	.
11.083	820.1741	1469.92	.	V	Q	.	.	.	.
11.167	830.3631	1479.45	.	V	Q	.	.	.	.
11.250	840.6192	1489.19	.	V	Q	.	.	.	.
11.333	850.9435	1499.08	.	V	Q	.	.	.	.
11.417	861.3374	1509.20	.	V	Q	.	.	.	.
11.500	871.8021	1519.48	.	V	Q	.	.	.	.
11.583	882.3393	1530.00	.	V	Q	.	.	.	.
11.667	892.9501	1540.69	.	V	Q	.	.	.	.
11.750	903.6363	1551.64	.	V	Q	.	.	.	.
11.833	914.3992	1562.77	.	V	Q	.	.	.	.
11.917	925.2407	1574.18	.	V	Q	.	.	.	.
12.000	936.1622	1585.79	.	V	Q	.	.	.	.
12.083	947.1871	1600.81	.	V	Q	.	.	.	.
12.167	958.3383	1619.16	.	V	Q	.	.	.	.
12.250	969.6179	1637.79	.	V	Q	.	.	.	.
12.333	981.0271	1656.62	.	V	Q	.	.	.	.
12.417	992.5681	1675.76	.	V	Q	.	.	.	.
12.500	1004.2517	1696.46	.	V	Q	.	.	.	.
12.583	1016.0931	1719.38	.	V	Q	.	.	.	.
12.667	1028.0941	1742.54	.	V	Q	.	.	.	.
12.750	1040.2655	1767.28	.	V	Q	.	.	.	.
12.833	1052.6499	1798.22	.	V	Q	.	.	.	.
12.917	1065.2654	1831.77	.	V	Q	.	.	.	.
13.000	1078.1425	1869.75	.	V	Q	.	.	.	.
13.083	1091.3151	1912.65	.	V	Q	.	.	.	.
13.167	1104.7844	1955.74	.	V	Q	.	.	.	.
13.250	1118.5493	1998.67	.	V	Q	.	.	.	.
13.333	1132.6589	2048.72	.	V	Q	.	.	.	.
13.417	1147.1113	2098.49	.	V	Q	.	.	.	.
13.500	1161.8771	2143.99	.	V	Q	.	.	.	.
13.583	1176.9860	2193.80	.	V	Q	.	.	.	.

13.667	1192.4868	2250.72	.	V.	Q	.	.	.	.
13.750	1208.3359	2301.29	.	V.	Q	.	.	.	.
13.833	1224.5277	2351.04	.	V.	Q	.	.	.	.
13.917	1241.1174	2408.83	.	V	Q	.	.	.	.
14.000	1258.1243	2469.38	.	V	Q	.	.	.	.
14.083	1275.6326	2542.21	.	V	Q	.	.	.	.
14.167	1293.6302	2613.26	.	V	Q	.	.	.	.
14.250	1312.2358	2701.53	.	V	Q	.	.	.	.
14.333	1331.4316	2787.23	.	V	Q	.	.	.	.
14.417	1351.2380	2875.90	.	.V	Q	.	.	.	.
14.500	1371.6903	2969.68	.	.V	Q	.	.	.	.
14.583	1392.7271	3054.54	.	.V	Q	.	.	.	.
14.667	1414.3319	3137.02	.	.V	Q	.	.	.	.
14.750	1436.5662	3228.42	.	.V	Q	.	.	.	.
14.833	1459.6125	3346.33	.	.V	Q	.	.	.	.
14.917	1483.4497	3461.16	.	.V	Q	.	.	.	.
15.000	1508.0955	3578.55	.	.V	Q	.	.	.	.
15.083	1533.6519	3710.78	.	.V	Q	.	.	.	.
15.167	1560.0601	3834.47	.	.V	.Q	.	.	.	.
15.250	1587.2935	3954.29	.	.V	.Q	.	.	.	.
15.333	1615.4548	4089.03	.	.V	.Q	.	.	.	.
15.417	1644.4164	4205.21	.	.V	.Q	.	.	.	.
15.500	1674.0142	4297.60	.	.V	.Q	.	.	.	.
15.583	1704.3226	4400.79	.	.V	.Q	.	.	.	.
15.667	1735.4655	4521.94	.	.V	.Q	.	.	.	.
15.750	1767.2638	4617.13	.	.V	.Q	.	.	.	.
15.833	1799.6354	4700.35	.	.V	.Q	.	.	.	.
15.917	1832.7000	4800.97	.	.V	.Q	.	.	.	.
16.000	1866.5472	4914.63	.	.V	.Q	.	.	.	.
16.083	1901.8313	5123.25	.	.V	.Q	.	.	.	.
16.167	1938.1184	5268.89	.	.V	.Q	.	.	.	.
16.250	1975.0458	5361.86	.	.V	.Q	.	.	.	.
16.333	2012.4897	5436.86	.	.V	.Q	.	.	.	.
16.417	2050.5012	5519.27	.	.V	.Q	.	.	.	.
16.500	2089.4277	5652.12	.	.V	.Q	.	.	.	.
16.583	2129.0598	5754.58	.	.V	.Q	.	.	.	.
16.667	2168.9167	5787.23	.	.V	.Q	.	.	.	.
16.750	2209.4822	5890.11	.	.V	.Q	.	.	.	.
16.833	2251.9497	6166.29	.	.V	.Q	.	.	.	.
16.917	2295.3828	6306.47	.	.V	.Q	.	.	.	.
17.000	2339.8982	6463.63	.	.V	.Q	.	.	.	.
17.083	2385.5757	6632.37	.	.V	.Q	.	.	.	.
17.167	2431.3882	6651.97	.	.V	.Q	.	.	.	.
17.250	2477.2783	6663.24	.	.V	.Q	.	.	.	.
17.333	2524.5789	6868.04	.	.V	.Q	.	.	.	.
17.417	2571.5664	6822.60	.	.V	.Q	.	.	.	.
17.500	2617.8137	6715.09	.	.V	.Q	.	.	.	.
17.583	2664.8271	6826.35	.	.V	.Q	.	.	.	.
17.667	2713.0701	7004.87	.	.V	.Q	.	.	.	.
17.750	2759.7913	6783.92	.	.V	.Q	.	.	.	.
17.833	2806.2158	6740.84	.	.V	.Q	.	.	.	.
17.917	2854.1841	6965.00	.	.V	.Q	.	.	.	.
18.000	2902.5940	7029.12	.	.V	.Q	.	.	.	.
18.083	2950.9646	7023.40	.	.V	.Q	.	.	.	.
18.167	2996.7932	6654.31	.	.V	.Q	.	.	.	.
18.250	3045.9260	7134.10	.	.V	.Q	.	.	.	.
18.333	3094.3533	7031.65	.	.V	.Q	.	.	.	.
18.417	3143.1252	7081.67	.	.V	.Q	.	.	.	.

18.500	3191.5081	7025.20	.	.	.	V	.	Q.
18.583	3236.6953	6561.19	.	.	.	V	.	Q
18.667	3281.4236	6494.53	.	.	.	V	.	Q
18.750	3327.5881	6703.08	.	.	.	V	.	Q
18.833	3375.6104	6972.82	.	.	.	V	.	Q
18.917	3421.2856	6632.06	.	.	.	V	.	Q
19.000	3464.8516	6325.77	.	.	.	V	.	Q
19.083	3508.4834	6335.36	.	.	.	V	.	Q
19.167	3550.7891	6142.77	.	.	.	V	.	Q
19.250	3592.5129	6058.29	.	.	.	V	.	Q
19.333	3632.9219	5867.39	.	.	.	V	.	Q
19.417	3671.1462	5550.18	.	.	.	VQ	.	Q
19.500	3708.4988	5423.58	.	.	.	Q	.	Q
19.583	3745.5134	5374.53	.	.	.	QV	.	Q
19.667	3781.9988	5297.69	.	.	.	QV	.	Q
19.750	3817.3191	5128.49	.	.	.	Q.V	.	Q
19.833	3851.2502	4926.81	.	.	.	Q.V	.	Q
19.917	3883.8469	4733.02	.	.	.	Q.V	.	Q
20.000	3915.0769	4534.61	.	.	.	Q.V	.	Q
20.083	3945.0134	4346.79	.	.	.	Q.V	.	Q
20.167	3973.7764	4176.38	.	.	.	Q.V	.	Q
20.250	4001.6482	4047.00	.	.	.	Q.V	.	Q
20.333	4028.4746	3895.20	.	.	.	Q.V	.	Q
20.417	4054.5029	3779.31	.	.	.	Q.V	.	Q
20.500	4079.7048	3659.30	.	.	.	Q.V	.	Q
20.583	4104.0664	3537.27	.	.	.	Q.V	.	Q
20.667	4127.6943	3430.78	.	.	.	Q.V	.	Q
20.750	4150.4028	3297.30	.	.	.	Q.V	.	Q
20.833	4171.8086	3108.13	.	.	.	Q.V	.	Q
20.917	4192.4834	3001.99	.	.	.	Q.V	.	Q
21.000	4212.5767	2917.56	.	.	.	Q.V	.	Q
21.083	4232.0659	2829.81	.	.	.	Q.V	.	Q
21.167	4250.7461	2712.37	.	.	.	Q.V	.	Q
21.250	4268.6792	2603.86	.	.	.	Q.V	.	Q
21.333	4286.1562	2537.70	.	.	.	Q.V	.	Q
21.417	4303.2295	2479.02	.	.	.	Q.V	.	Q
21.500	4319.8979	2420.29	.	.	.	Q.V	.	Q
21.583	4336.1440	2358.92	.	.	.	Q.V	.	Q
21.667	4351.9360	2292.99	.	.	.	Q.V	.	Q
21.750	4367.1304	2206.18	.	.	.	Q.V	.	Q
21.833	4381.4580	2080.35	.	.	.	Q.V	.	Q
21.917	4395.4072	2025.40	.	.	.	Q.V	.	Q
22.000	4409.0449	1980.18	.	.	.	Q.V	.	Q
22.083	4422.3833	1936.75	.	.	.	Q.V	.	Q
22.167	4435.4336	1894.87	.	.	.	Q.V	.	Q
22.250	4448.2158	1855.99	.	.	.	Q.V	.	Q
22.333	4460.7358	1817.93	.	.	.	Q.V	.	Q
22.417	4472.9712	1776.58	.	.	.	Q.V	.	Q
22.500	4484.9229	1735.39	.	.	.	Q.V	.	Q
22.583	4496.5996	1695.44	.	.	.	Q.V	.	Q
22.667	4507.9946	1654.55	.	.	.	Q.V	.	Q
22.750	4519.1333	1617.34	.	.	.	Q.V	.	Q
22.833	4530.0786	1589.23	.	.	.	Q.V	.	Q
22.917	4540.8433	1563.01	.	.	.	Q.V	.	Q
23.000	4551.4326	1537.56	.	.	.	Q.V	.	Q
23.083	4561.8472	1512.23	.	.	.	Q.V	.	Q
23.167	4572.1025	1489.11	.	.	.	Q.V	.	Q
23.250	4582.2114	1467.81	.	.	.	Q.V	.	Q

23.333	4592.1772	1447.01	.	.	.	Q	.	V
23.417	4602.0034	1426.77	.	.	.	Q	.	V
23.500	4611.6938	1407.02	.	.	.	Q	.	V
23.583	4621.2515	1387.77	.	.	.	Q	.	V
23.667	4630.6807	1369.10	.	.	.	Q	.	V
23.750	4640.0024	1353.49	.	.	.	Q	.	V
23.833	4649.2349	1340.57	.	.	.	Q	.	V
23.917	4658.3809	1328.03	.	.	.	Q	.	V
24.000	4667.4419	1315.67	.	.	.	Q	.	V
24.083	4676.4097	1302.13	.	.	.	Q	.	V
24.167	4685.2715	1286.75	.	.	.	Q	.	V
24.250	4694.0234	1270.77	.	.	.	Q	.	V
24.333	4702.6406	1251.23	.	.	.	Q	.	V
24.417	4710.9448	1205.76	.	.	.	Q	.	V
24.500	4719.1426	1190.34	.	.	.	Q	.	V
24.583	4727.2285	1174.05	.	.	.	Q	.	V
24.667	4735.2056	1158.28	.	.	.	Q	.	V
24.750	4743.0571	1140.02	.	.	.	Q	.	V
24.833	4750.7578	1118.10	.	.	.	Q	.	V
24.917	4758.2979	1094.78	.	.	.	Q	.	V
25.000	4765.6597	1068.93	.	.	.	Q	.	V
25.083	4772.8247	1040.36	.	.	.	Q	.	V
25.167	4779.7935	1011.87	.	.	.	Q	.	V
25.250	4786.5688	983.75	.	.	.	Q	.	V
25.333	4793.1230	951.65	.	.	.	Q	.	V
25.417	4799.4800	923.00	.	.	.	Q	.	V
25.500	4805.6602	897.34	.	.	.	Q	.	V
25.583	4811.6489	869.57	.	.	.	Q	.	V
25.667	4817.4199	837.95	.	.	.	Q	.	V
25.750	4823.0029	810.65	.	.	.	Q	.	V
25.833	4828.4038	784.24	.	.	.	Q	.	V
25.917	4833.5933	753.50	.	.	.	Q	.	V
26.000	4838.5625	721.52	.	.	.	Q	.	V
26.083	4843.3022	688.18	.	.	.	Q	.	V
26.167	4847.8594	661.70	.	.	.	Q	.	V
26.250	4852.1641	625.02	.	.	.	Q	.	V
26.333	4856.2275	590.00	.	.	.	Q	.	V
26.417	4860.0449	554.31	.	.	.	Q	.	V
26.500	4863.6123	517.98	.	.	.	Q	.	V
26.583	4866.9897	490.41	.	.	.	Q	.	V
26.667	4870.1865	464.15	.	.	.	Q	.	V
26.750	4873.1797	434.62	.	.	.	Q	.	V
26.833	4875.9302	399.41	.	.	.	Q	.	V
26.917	4878.4756	369.60	.	.	.	Q	.	V
27.000	4880.8501	344.79	.	.	.	Q	.	V
27.083	4883.0420	318.25	.	.	.	Q	.	V
27.167	4885.0762	295.33	.	.	.	Q	.	V
27.250	4886.9526	272.44	.	.	.	Q	.	V
27.333	4888.6821	251.11	.	.	.	Q	.	V
27.417	4890.2954	234.26	.	.	.	Q	.	V
27.500	4891.7969	218.04	.	.	.	Q	.	V
27.583	4893.1851	201.55	.	.	.	Q	.	V
27.667	4894.4600	185.13	.	.	.	Q	.	V
27.750	4895.6309	170.04	.	.	.	Q	.	V
27.833	4896.7056	156.07	.	.	.	Q	.	V
27.917	4897.6924	143.26	.	.	.	Q	.	V
28.000	4898.6025	132.13	.	.	.	Q	.	V
28.083	4899.4434	122.11	.	.	.	Q	.	V

28.167	4900.2251	113.53	Q	.	.	.	V.
28.250	4900.9487	105.10	Q	.	.	.	V.
28.333	4901.6191	97.35	Q	.	.	.	V.
28.417	4902.2373	89.77	Q	.	.	.	V.
28.500	4902.8047	82.39	Q	.	.	.	V.
28.583	4903.3247	75.54	Q	.	.	.	V.
28.667	4903.7983	68.77	Q	.	.	.	V.
28.750	4904.2285	62.45	Q	.	.	.	V.
28.833	4904.6260	57.70	Q	.	.	.	V.
28.917	4904.9922	53.14	Q	.	.	.	V.
29.000	4905.3271	48.61	Q	.	.	.	V.
29.083	4905.6309	44.11	Q	.	.	.	V.
29.167	4905.9097	40.49	Q	.	.	.	V.
29.250	4906.1689	37.64	Q	.	.	.	V.
29.333	4906.4087	34.80	Q	.	.	.	V.
29.417	4906.6289	31.99	Q	.	.	.	V.
29.500	4906.8301	29.20	Q	.	.	.	V.
29.583	4907.0122	26.42	Q	.	.	.	V.
29.667	4907.1753	23.67	Q	.	.	.	V.
29.750	4907.3218	21.30	Q	.	.	.	V.
29.833	4907.4624	20.39	Q	.	.	.	V.
29.917	4907.5977	19.63	Q	.	.	.	V.
30.000	4907.7275	18.88	Q	.	.	.	V.
30.083	4907.8525	18.14	Q	.	.	.	V.
30.167	4907.9722	17.40	Q	.	.	.	V.
30.250	4908.0869	16.67	Q	.	.	.	V.
30.333	4908.1968	15.94	Q	.	.	.	V.
30.417	4908.3018	15.22	Q	.	.	.	V.
30.500	4908.4019	14.50	Q	.	.	.	V.
30.583	4908.4966	13.79	Q	.	.	.	V.
30.667	4908.5869	13.09	Q	.	.	.	V.
30.750	4908.6724	12.39	Q	.	.	.	V.
30.833	4908.7529	11.69	Q	.	.	.	V.
30.917	4908.8286	11.01	Q	.	.	.	V.
31.000	4908.8999	10.32	Q	.	.	.	V.
31.083	4908.9663	9.64	Q	.	.	.	V.
31.167	4909.0278	8.97	Q	.	.	.	V.
31.250	4909.0850	8.30	Q	.	.	.	V.
31.333	4909.1377	7.63	Q	.	.	.	V.
31.417	4909.1855	6.97	Q	.	.	.	V.
31.500	4909.2290	6.32	Q	.	.	.	V.
31.583	4909.2681	5.67	Q	.	.	.	V.
31.667	4909.3027	5.02	Q	.	.	.	V.
31.750	4909.3330	4.38	Q	.	.	.	V.
31.833	4909.3589	3.74	Q	.	.	.	V.
31.917	4909.3804	3.10	Q	.	.	.	V.
32.000	4909.3975	2.47	Q	.	.	.	V.
32.083	4909.4102	1.84	Q	.	.	.	V.
32.167	4909.4185	1.22	Q	.	.	.	V.
32.250	4909.4224	0.60	Q	.	.	.	V

-----

TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
 (Note: 100% of Peak Flow Rate estimate assumed to have  
 an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
=====	=====

0%	1935.0
10%	1375.0
20%	760.0
30%	500.0
40%	400.0
50%	335.0
60%	280.0
70%	225.0
80%	170.0
90%	120.0

=====

END OF FLOODSCx ROUTING ANALYSIS

\*\*\*\*\*

FLOOD ROUTING ANALYSIS  
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)  
(c) Copyright 1989-2013 Advanced Engineering Software (aes)  
Ver. 20.0 Release Date: 06/01/2013 License ID 1237

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*  
\* RMV PA-3 BODR 2022 - NODE 127 \*  
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*  
\* 10-YR EV JULY 2022 ROKAMOTO \*  
\*\*\*\*\*

FILE NAME: EV10127S.DAT  
TIME/DATE OF STUDY: 11:41 07/25/2022

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 127.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<

=====

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 52666.000 ACRES  
BASEFLOW = 0.000 CFS/SQUARE-MILE  
\*USER ENTERED "LAG" TIME = 2.564 HOURS  
VALLEY (DEVELOPED) S-GRAPH SELECTED  
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.291  
LOW LOSS FRACTION = 0.742  
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.32  
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.63  
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 0.88  
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 1.63  
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 2.41  
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 4.24

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:  
5-MINUTE FACTOR = 0.333  
30-MINUTE FACTOR = 0.385  
1-HOUR FACTOR = 0.425  
3-HOUR FACTOR = 0.775  
6-HOUR FACTOR = 0.899  
24-HOUR FACTOR = 0.941

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES  
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 3.250

=====

UNIT HYDROGRAPH DETERMINATION

-----

INTERVAL NUMBER	"S" GRAPH MEAN VALUES	UNIT HYDROGRAPH ORDINATES (CFS)
1	0.186	1182.918
2	0.557	2365.830
3	0.929	2365.836
4	1.300	2365.830
5	1.671	2365.832
6	2.080	2599.720
7	2.631	3508.979
8	3.196	3600.182
9	3.762	3609.209
10	4.600	5336.948
11	5.644	6649.213
12	6.895	7968.114
13	8.351	9274.044
14	10.052	10830.618
15	11.688	10423.845
16	13.316	10369.183
17	15.461	13656.247
18	17.401	12360.851
19	19.135	11040.622
20	21.086	12431.160
21	23.467	15161.637
22	25.502	12960.311
23	27.368	11885.852
24	29.670	14665.493
25	32.035	15059.711
26	34.892	18201.924
27	37.002	13435.400
28	39.592	16499.852
29	42.609	19211.656
30	45.552	18747.803
31	48.910	21388.320
32	51.730	17961.967
33	54.065	14872.418
34	56.335	14458.812
35	59.017	17081.859
36	62.249	20584.068
37	64.872	16704.383
38	67.066	13977.732
39	69.455	15214.980
40	71.541	13285.901
41	73.591	13056.685
42	75.592	12747.190
43	77.169	10044.448
44	78.614	9201.441
45	80.071	9278.900
46	81.587	9656.912
47	83.003	9017.708
48	84.333	8470.347

49	85.571	7888.582
50	86.656	6910.630
51	87.653	6350.877
52	88.502	5404.512
53	89.267	4871.486
54	90.020	4795.922
55	90.712	4412.225
56	91.396	4357.654
57	92.068	4279.175
58	92.692	3973.957
59	93.311	3942.371
60	93.915	3844.795
61	94.366	2876.368
62	94.779	2627.616
63	95.192	2629.560
64	95.604	2627.616
65	95.994	2482.126
66	96.266	1730.087
67	96.520	1622.841
68	96.776	1624.833
69	97.030	1620.945
70	97.285	1624.784
71	97.540	1624.784
72	97.795	1622.889
73	98.003	1326.272
74	98.073	444.002
75	98.134	388.459
76	98.195	388.508
77	98.256	388.508
78	98.317	386.564
79	98.378	390.403
80	98.438	382.774
81	98.499	390.403
82	98.560	384.669
83	98.621	390.403
84	98.682	390.403
85	98.742	382.774
86	98.804	394.242
87	98.864	382.774
88	98.926	394.193
89	98.986	382.774
90	99.048	390.403
91	99.108	382.774
92	99.168	382.774
93	99.228	382.774
94	99.288	382.774
95	99.348	382.774
96	99.408	382.774
97	99.468	382.774
98	99.528	382.774
99	99.589	382.774
100	99.649	382.774
101	99.709	382.774
102	99.769	382.774
103	99.829	382.774
104	99.889	382.774
105	99.949	382.774
106	100.000	323.781

-----  
TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 12387.2002  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 5122.9707  
-----

2 4 - 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 FIVE-MINUTE UNIT INTERVALS(CFS)

(Note: Time indicated is at END of Each Unit Intervals)

TIME(HRS)	VOLUME(AF)	Q(CFS)	0.	1825.0	3650.0	5475.0	7300.0
0.083	0.0128	1.86	Q	.	.	.	.
0.167	0.0513	5.59	Q	.	.	.	.
0.250	0.1156	9.33	Q	.	.	.	.
0.333	0.2057	13.08	Q	.	.	.	.
0.417	0.3217	16.84	Q	.	.	.	.
0.500	0.4663	20.99	Q	.	.	.	.
0.583	0.6493	26.57	Q	.	.	.	.
0.667	0.8718	32.32	Q	.	.	.	.
0.750	1.1342	38.09	Q	.	.	.	.
0.833	1.4552	46.61	Q	.	.	.	.
0.917	1.8492	57.21	Q	.	.	.	.
1.000	2.3308	69.93	Q	.	.	.	.
1.083	2.9144	84.73	Q	.	.	.	.
1.167	3.6171	102.03	Q	.	.	.	.
1.250	4.4349	118.74	Q	.	.	.	.
1.333	5.3675	135.42	Q	.	.	.	.
1.417	6.4510	157.32	Q	.	.	.	.
1.500	7.6718	177.25	Q	.	.	.	.
1.583	9.0158	195.16	VQ	.	.	.	.
1.667	10.4988	215.32	VQ	.	.	.	.
1.750	12.1505	239.84	VQ	.	.	.	.
1.833	13.9478	260.96	VQ	.	.	.	.
1.917	15.8793	280.46	VQ	.	.	.	.
2.000	17.9757	304.40	VQ	.	.	.	.
2.083	20.2418	329.03	VQ	.	.	.	.
2.167	22.7122	358.69	VQ	.	.	.	.
2.250	25.3357	380.93	V Q	.	.	.	.
2.333	28.1461	408.08	V Q	.	.	.	.
2.417	31.1735	439.57	V Q	.	.	.	.
2.500	34.4135	470.44	V Q	.	.	.	.
2.583	37.8953	505.56	V Q	.	.	.	.
2.667	41.5826	535.40	V Q	.	.	.	.
2.750	45.4426	560.47	V Q	.	.	.	.
2.833	49.4713	584.97	V Q	.	.	.	.
2.917	53.6978	613.69	V Q	.	.	.	.
3.000	58.1607	648.01	V Q	.	.	.	.
3.083	62.8186	676.33	V Q	.	.	.	.
3.167	67.6428	700.47	V Q	.	.	.	.
3.250	72.6471	726.63	V Q	.	.	.	.
3.333	77.8113	749.84	V Q	.	.	.	.
3.417	83.1335	772.78	V Q	.	.	.	.
3.500	88.6108	795.31	V Q	.	.	.	.
3.583	94.2145	813.66	V Q	.	.	.	.
3.667	99.9360	830.76	V Q	.	.	.	.
3.750	105.7766	848.05	V Q	.	.	.	.
3.833	111.7408	866.00	V Q	.	.	.	.
3.917	117.8222	883.01	V Q	.	.	.	.

4.000	124.0153	899.24	V Q	.	.	.	.
4.083	130.3142	914.60	.V Q	.	.	.	.
4.167	136.7088	928.50	.V Q	.	.	.	.
4.250	143.1935	941.57	.V Q	.	.	.	.
4.333	149.7583	953.21	.V Q	.	.	.	.
4.417	156.3979	964.07	.V Q	.	.	.	.
4.500	163.1118	974.86	.V Q	.	.	.	.
4.583	169.8963	985.10	.V Q	.	.	.	.
4.667	176.7510	995.31	.V Q	.	.	.	.
4.750	183.6755	1005.44	.V Q	.	.	.	.
4.833	190.6669	1015.15	.V Q	.	.	.	.
4.917	197.7251	1024.85	.V Q	.	.	.	.
5.000	204.8494	1034.46	.V Q	.	.	.	.
5.083	212.0298	1042.59	.V Q	.	.	.	.
5.167	219.2639	1050.39	.V Q	.	.	.	.
5.250	226.5520	1058.23	.V Q	.	.	.	.
5.333	233.8944	1066.12	.V Q	.	.	.	.
5.417	241.2899	1073.83	.V Q	.	.	.	.
5.500	248.7307	1080.41	.V Q	.	.	.	.
5.583	256.2160	1086.86	. V Q	.	.	.	.
5.667	263.7461	1093.37	. V Q	.	.	.	.
5.750	271.3212	1099.91	. V Q	.	.	.	.
5.833	278.9419	1106.52	. V Q	.	.	.	.
5.917	286.6083	1113.16	. V Q	.	.	.	.
6.000	294.3209	1119.87	. V Q	.	.	.	.
6.083	302.0767	1126.14	. V Q	.	.	.	.
6.167	309.8666	1131.09	. V Q	.	.	.	.
6.250	317.6902	1135.99	. V Q	.	.	.	.
6.333	325.5480	1140.95	. V Q	.	.	.	.
6.417	333.4402	1145.95	. V Q	.	.	.	.
6.500	341.3672	1151.00	. V Q	.	.	.	.
6.583	349.3293	1156.10	. V Q	.	.	.	.
6.667	357.3269	1161.25	. V Q	.	.	.	.
6.750	365.3604	1166.45	. V Q	.	.	.	.
6.833	373.4300	1171.71	. V Q	.	.	.	.
6.917	381.5362	1177.02	. V Q	.	.	.	.
7.000	389.6794	1182.40	. V Q	.	.	.	.
7.083	397.8599	1187.81	. V Q	.	.	.	.
7.167	406.0782	1193.30	. V Q	.	.	.	.
7.250	414.3346	1198.83	. V Q	.	.	.	.
7.333	422.6296	1204.44	. V Q	.	.	.	.
7.417	430.9636	1210.09	. V Q	.	.	.	.
7.500	439.3370	1215.82	. V Q	.	.	.	.
7.583	447.7502	1221.59	. V Q	.	.	.	.
7.667	456.2036	1227.44	. V Q	.	.	.	.
7.750	464.6976	1233.34	. V Q	.	.	.	.
7.833	473.2328	1239.32	. V Q	.	.	.	.
7.917	481.8097	1245.35	. V Q	.	.	.	.
8.000	490.4286	1251.47	. V Q	.	.	.	.
8.083	499.0901	1257.65	. V Q	.	.	.	.
8.167	507.7946	1263.90	. V Q	.	.	.	.
8.250	516.5428	1270.23	. V Q	.	.	.	.
8.333	525.3351	1276.64	. V Q	.	.	.	.
8.417	534.1719	1283.12	. V Q	.	.	.	.
8.500	543.0540	1289.68	. V Q	.	.	.	.
8.583	551.9818	1296.32	. V Q	.	.	.	.
8.667	560.9560	1303.05	. V Q	.	.	.	.
8.750	569.9770	1309.85	. V Q	.	.	.	.



8.833	579.0449	1316.66	.	V	Q	.	.	.	.
8.917	588.1566	1323.03	.	V	Q	.	.	.	.
9.000	597.3130	1329.51	.	V	Q	.	.	.	.
9.083	606.5145	1336.06	.	V	Q	.	.	.	.
9.167	615.7618	1342.72	.	V	Q	.	.	.	.
9.250	625.0556	1349.46	.	V	Q	.	.	.	.
9.333	634.3965	1356.30	.	V	Q	.	.	.	.
9.417	643.7853	1363.24	.	V	Q	.	.	.	.
9.500	653.2225	1370.29	.	V	Q	.	.	.	.
9.583	662.7090	1377.43	.	V	Q	.	.	.	.
9.667	672.2455	1384.70	.	V	Q	.	.	.	.
9.750	681.8326	1392.05	.	V	Q	.	.	.	.
9.833	691.4713	1399.54	.	V	Q	.	.	.	.
9.917	701.1622	1407.12	.	V	Q	.	.	.	.
10.000	710.9063	1414.84	.	V	Q	.	.	.	.
10.083	720.7043	1422.67	.	V	Q	.	.	.	.
10.167	730.5571	1430.63	.	V	Q	.	.	.	.
10.250	740.4656	1438.71	.	V	Q	.	.	.	.
10.333	750.4307	1446.93	.	V	Q	.	.	.	.
10.417	760.4532	1455.28	.	V	Q	.	.	.	.
10.500	770.5344	1463.78	.	V	Q	.	.	.	.
10.583	780.6749	1472.40	.	V	Q	.	.	.	.
10.667	790.8759	1481.19	.	V	Q	.	.	.	.
10.750	801.1384	1490.12	.	V	Q	.	.	.	.
10.833	811.4636	1499.21	.	V	Q	.	.	.	.
10.917	821.8524	1508.45	.	V	Q	.	.	.	.
11.000	832.3060	1517.87	.	V	Q	.	.	.	.
11.083	842.8256	1527.45	.	V	Q	.	.	.	.
11.167	853.4125	1537.21	.	V	Q	.	.	.	.
11.250	864.0677	1547.14	.	V	Q	.	.	.	.
11.333	874.7928	1557.28	.	V	Q	.	.	.	.
11.417	885.5888	1567.59	.	V	Q	.	.	.	.
11.500	896.4573	1578.11	.	V	Q	.	.	.	.
11.583	907.3997	1588.82	.	V	Q	.	.	.	.
11.667	918.4174	1599.77	.	V	Q	.	.	.	.
11.750	929.5118	1610.91	.	V	Q	.	.	.	.
11.833	940.6846	1622.30	.	V	Q	.	.	.	.
11.917	951.9374	1633.90	.	V	Q	.	.	.	.
12.000	963.2720	1645.77	.	V	Q	.	.	.	.
12.083	974.7114	1661.01	.	V	Q	.	.	.	.
12.167	986.2793	1679.65	.	V	Q	.	.	.	.
12.250	997.9771	1698.52	.	V	Q	.	.	.	.
12.333	1009.8066	1717.65	.	V	Q	.	.	.	.
12.417	1021.7696	1737.02	.	V	Q	.	.	.	.
12.500	1033.8722	1757.30	.	V	Q	.	.	.	.
12.583	1046.1328	1780.24	.	V	Q	.	.	.	.
12.667	1058.5552	1803.73	.	V	Q	.	.	.	.
12.750	1071.1412	1827.50	.	V	Q	.	.	.	.
12.833	1083.9248	1856.17	.	V	Q	.	.	.	.
12.917	1096.9315	1888.58	.	V	Q	.	.	.	.
13.000	1110.1877	1924.80	.	V	Q	.	.	.	.
13.083	1123.7189	1964.72	.	V	Q	.	.	.	.
13.167	1137.5555	2009.08	.	V	Q	.	.	.	.
13.250	1151.6919	2052.59	.	V	Q	.	.	.	.
13.333	1166.1289	2096.26	.	V	Q	.	.	.	.
13.417	1180.9285	2148.90	.	V	Q	.	.	.	.
13.500	1196.0691	2198.41	.	V	Q	.	.	.	.
13.583	1211.5282	2244.66	.	V	Q	.	.	.	.

13.667	1227.3336	2294.95	.	V	Q	.	.	.	.
13.750	1243.5372	2352.76	.	V	Q	.	.	.	.
13.833	1260.1011	2405.08	.	V	Q	.	.	.	.
13.917	1277.0076	2454.82	.	V	Q	.	.	.	.
14.000	1294.3103	2512.36	.	V	Q	.	.	.	.
14.083	1312.0796	2580.11	.	V	Q	.	.	.	.
14.167	1330.4354	2665.27	.	V	Q	.	.	.	.
14.250	1349.2887	2737.49	.	V	Q	.	.	.	.
14.333	1368.6941	2817.66	.	V	Q	.	.	.	.
14.417	1388.6992	2904.75	.	V	Q	.	.	.	.
14.500	1409.3059	2992.10	.	V	Q	.	.	.	.
14.583	1430.6069	3092.91	.	V	Q	.	.	.	.
14.667	1452.5406	3184.77	.	V	Q	.	.	.	.
14.750	1475.0460	3267.78	.	V	Q	.	.	.	.
14.833	1498.2010	3362.11	.	V	Q	.	.	.	.
14.917	1522.1143	3472.19	.	V	Q	.	.	.	.
15.000	1546.9078	3600.03	.	V	Q	.	.	.	.
15.083	1572.5653	3725.47	.	V	Q	.	.	.	.
15.167	1599.1016	3853.07	.	V	Q	.	.	.	.
15.250	1626.4994	3978.17	.	V	Q	.	.	.	.
15.333	1654.7002	4094.76	.	V	Q	.	.	.	.
15.417	1683.8082	4226.49	.	V	Q	.	.	.	.
15.500	1713.6875	4338.47	.	V	Q	.	.	.	.
15.583	1744.2050	4431.14	.	V	Q	.	.	.	.
15.667	1775.4067	4530.50	.	V	Q	.	.	.	.
15.750	1807.4092	4646.75	.	V	Q	.	.	.	.
15.833	1840.0702	4742.38	.	V	Q	.	.	.	.
15.917	1873.2863	4822.97	.	V	Q	.	.	.	.
16.000	1907.2537	4932.06	.	V	Q	.	.	.	.
16.083	1942.5756	5128.73	.	V	Q	.	.	.	.
16.167	1979.2335	5322.74	.	V	Q	.	.	.	.
16.250	2016.2629	5376.67	.	V	Q	.	.	.	.
16.333	2053.7415	5441.89	.	V	Q	.	.	.	.
16.417	2091.8049	5526.82	.	V	Q	.	.	.	.
16.500	2130.5525	5626.14	.	V	Q	.	.	.	.
16.583	2170.4355	5791.03	.	V	Q	.	.	.	.
16.667	2210.8533	5868.65	.	V	Q	.	.	.	.
16.750	2251.5823	5913.86	.	V	Q	.	.	.	.
16.833	2293.5349	6091.52	.	V	Q	.	.	.	.
16.917	2336.7292	6271.83	.	V	Q	.	.	.	.
17.000	2381.3027	6472.07	.	V	Q	.	.	.	.
17.083	2426.8240	6609.69	.	V	Q	.	.	.	.
17.167	2473.2410	6739.76	.	V	Q	.	.	.	.
17.250	2519.7417	6751.90	.	V	Q	.	.	.	.
17.333	2566.4939	6788.41	.	V	Q	.	.	.	.
17.417	2614.9841	7040.77	.	V	Q	.	.	.	.
17.500	2662.7642	6937.67	.	V	Q	.	.	.	.
17.583	2710.0288	6862.84	.	V	Q	.	.	.	.
17.667	2758.0728	6976.00	.	V	Q	.	.	.	.
17.750	2807.3511	7155.21	.	V	Q	.	.	.	.
17.833	2855.3147	6964.33	.	V	Q	.	.	.	.
17.917	2902.6240	6869.33	.	V	Q	.	.	.	.
18.000	2951.2698	7063.35	.	V	Q	.	.	.	.
18.083	3000.1785	7101.56	.	V	Q	.	.	.	.
18.167	3050.1943	7262.32	.	V	Q	.	.	.	.
18.250	3097.4514	6861.73	.	V	Q	.	.	.	.
18.333	3146.0105	7050.78	.	V	Q	.	.	.	.
18.417	3195.5203	7188.82	.	V	Q	.	.	.	.

18.500	3244.7361	7146.15	.	.	.	V	.	Q.
18.583	3294.7202	7257.70	.	.	.	V	.	Q.
18.667	3342.3665	6918.23	.	.	.	V	.	Q.
18.750	3388.0825	6637.97	.	.	.	V	.	Q.
18.833	3433.5916	6607.90	.	.	.	V	.	Q.
18.917	3480.7256	6843.86	.	.	.	V	.	Q.
19.000	3529.2856	7050.92	.	.	.	V	.	Q.
19.083	3575.2588	6675.30	.	.	.	V	.	Q.
19.167	3619.2024	6380.59	.	.	.	V	.	Q.
19.250	3663.3875	6415.67	.	.	.	V	.	Q.
19.333	3706.2573	6224.71	.	.	.	V	.	Q.
19.417	3748.3848	6116.89	.	.	.	V	.	Q.
19.500	3789.5173	5972.45	.	.	.	V	.	Q.
19.583	3828.4456	5652.38	.	.	.	VQ	.	.
19.667	3866.3210	5499.52	.	.	.	Q	.	.
19.750	3903.7446	5433.91	.	.	.	QV	.	.
19.833	3940.8687	5390.40	.	.	.	QV	.	.
19.917	3976.9504	5239.09	.	.	.	Q.V	.	.
20.000	4011.7349	5050.69	.	.	.	Q.V	.	.
20.083	4045.3198	4876.54	.	.	.	Q.V	.	.
20.167	4077.5537	4680.37	.	.	.	Q.V	.	.
20.250	4108.6274	4511.92	.	.	.	Q.V	.	.
20.333	4138.3828	4320.45	.	.	.	Q.V	.	.
20.417	4167.0342	4160.17	.	.	.	Q.V	.	.
20.500	4194.7974	4031.21	.	.	.	Q.V	.	.
20.583	4221.5869	3889.86	.	.	.	Q.V	.	.
20.667	4247.6382	3782.62	.	.	.	Q.V	.	.
20.750	4272.9600	3676.71	.	.	.	Q.V	.	.
20.833	4297.4468	3555.51	.	.	.	Q.V	.	.
20.917	4321.1812	3446.26	.	.	.	Q.V	.	.
21.000	4344.0264	3317.09	.	.	.	Q.V	.	.
21.083	4365.6567	3140.73	.	.	.	Q.V	.	.
21.167	4386.5596	3035.10	.	.	.	Q.V	.	.
21.250	4406.8657	2948.42	.	.	.	Q.V	.	.
21.333	4426.6406	2871.29	.	.	.	Q.V	.	.
21.417	4445.7861	2779.90	.	.	.	Q.V	.	.
21.500	4464.0522	2652.25	.	.	.	Q.V	.	.
21.583	4481.8525	2584.57	.	.	.	Q.V	.	.
21.667	4499.2578	2527.22	.	.	.	Q.V	.	.
21.750	4516.2646	2469.42	.	.	.	Q.V	.	.
21.833	4532.8628	2410.07	.	.	.	Q.V	.	.
21.917	4549.0464	2349.84	.	.	.	Q.V	.	.
22.000	4564.7949	2286.68	.	.	.	Q.V	.	.
22.083	4579.9785	2204.66	.	.	.	Q.V	.	.
22.167	4594.3706	2089.71	.	.	.	Q.V	.	.
22.250	4608.4238	2040.53	.	.	.	Q.V	.	.
22.333	4622.1885	1998.64	.	.	.	Q.V	.	.
22.417	4635.6777	1958.67	.	.	.	Q.V	.	.
22.500	4648.9014	1920.07	.	.	.	Q.V	.	.
22.583	4661.8696	1883.01	.	.	.	Q.V	.	.
22.667	4674.5757	1844.94	.	.	.	Q.V	.	.
22.750	4687.0273	1808.00	.	.	.	Q.V	.	.
22.833	4699.2188	1770.21	.	.	.	Q.V	.	.
22.917	4711.1392	1730.83	.	.	.	Q.V	.	.
23.000	4722.7861	1691.13	.	.	.	Q.V	.	.
23.083	4734.1904	1655.89	.	.	.	Q.V	.	.
23.167	4745.4126	1629.47	.	.	.	Q.V	.	.
23.250	4756.4492	1602.51	.	.	.	Q.V	.	.

23.333	4767.3149	1577.70	.	.	.	Q.	.	V.
23.417	4778.0049	1552.19	.	.	.	Q.	.	V.
23.500	4788.5464	1530.60	.	.	.	Q.	.	V.
23.583	4798.9365	1508.66	.	.	.	Q.	.	V.
23.667	4809.1836	1487.90	.	.	.	Q.	.	V.
23.750	4819.2905	1467.56	.	.	.	Q.	.	V.
23.833	4829.2612	1447.75	.	.	.	Q.	.	V.
23.917	4839.0981	1428.35	.	.	.	Q.	.	V.
24.000	4848.8047	1409.39	.	.	.	Q.	.	V.
24.083	4858.3770	1389.91	.	.	.	Q.	.	V.
24.167	4867.8228	1371.56	.	.	.	Q.	.	V.
24.250	4877.1587	1355.59	.	.	.	Q.	.	V.
24.333	4886.3857	1339.76	.	.	.	Q.	.	V.
24.417	4895.5054	1324.16	.	.	.	Q.	.	V.
24.500	4904.5161	1308.39	.	.	.	Q.	.	V.
24.583	4913.4126	1291.77	.	.	.	Q.	.	V.
24.667	4922.1934	1274.99	.	.	.	Q.	.	V.
24.750	4930.8521	1257.28	.	.	.	Q.	.	V.
24.833	4939.3267	1230.54	.	.	.	Q.	.	V.
24.917	4947.4849	1184.58	.	.	.	Q.	.	V.
25.000	4955.4858	1161.77	.	.	.	Q.	.	V.
25.083	4963.3184	1137.30	.	.	.	Q.	.	V.
25.167	4970.9673	1110.60	.	.	.	Q.	.	V.
25.250	4978.4272	1083.18	.	.	.	Q.	.	V.
25.333	4985.6982	1055.77	.	.	.	Q.	.	V.
25.417	4992.7451	1023.21	.	.	.	Q.	.	V.
25.500	4999.5820	992.72	.	.	.	Q.	.	V.
25.583	5006.2236	964.38	.	.	.	Q.	.	V.
25.667	5012.6553	933.90	.	.	.	Q.	.	V.
25.750	5018.8481	899.22	.	.	.	Q.	.	V.
25.833	5024.8301	868.55	.	.	.	Q.	.	V.
25.917	5030.6304	842.18	.	.	.	Q.	.	V.
26.000	5036.2207	811.70	.	.	.	Q.	.	V.
26.083	5041.5986	780.88	.	.	.	Q.	.	V.
26.167	5046.7324	745.40	.	.	.	Q.	.	V.
26.250	5051.6753	717.70	.	.	.	Q.	.	V.
26.333	5056.3960	685.43	.	.	.	Q.	.	V.
26.417	5060.8667	649.16	.	.	.	Q.	.	V.
26.500	5065.0947	613.90	.	.	.	Q.	.	V.
26.583	5069.0532	574.76	.	.	.	Q.	.	V.
26.667	5072.7812	541.30	.	.	.	Q.	.	V.
26.750	5076.3140	512.93	.	.	.	Q.	.	V.
26.833	5079.6582	485.59	.	.	.	Q.	.	V.
26.917	5082.7930	455.20	.	.	.	Q.	.	V.
27.000	5085.6821	419.53	.	.	.	Q.	.	V.
27.083	5088.3696	390.23	.	.	.	Q.	.	V.
27.167	5090.8862	365.42	.	.	.	Q.	.	V.
27.250	5093.2202	338.86	.	.	.	Q.	.	V.
27.333	5095.3931	315.53	.	.	.	Q.	.	V.
27.417	5097.4092	292.74	.	.	.	Q.	.	V.
27.500	5099.2729	270.59	.	.	.	Q.	.	V.
27.583	5101.0142	252.86	.	.	.	Q.	.	V.
27.667	5102.6436	236.58	.	.	.	Q.	.	V.
27.750	5104.1606	220.30	.	.	.	Q.	.	V.
27.833	5105.5625	203.55	.	.	.	Q.	.	V.
27.917	5106.8569	187.92	.	.	.	Q.	.	V.
28.000	5108.0503	173.27	.	.	.	Q.	.	V.
28.083	5109.1499	159.64	.	.	.	Q.	.	V.

28.167	5110.1665	147.64	Q	.	.	.	V.
28.250	5111.1074	136.60	Q	.	.	.	V.
28.333	5111.9829	127.13	Q	.	.	.	V.
28.417	5112.7993	118.57	Q	.	.	.	V.
28.500	5113.5581	110.19	Q	.	.	.	V.
28.583	5114.2637	102.48	Q	.	.	.	V.
28.667	5114.9175	94.91	Q	.	.	.	V.
28.750	5115.5200	87.51	Q	.	.	.	V.
28.833	5116.0757	80.65	Q	.	.	.	V.
28.917	5116.5845	73.88	Q	.	.	.	V.
29.000	5117.0483	67.32	Q	.	.	.	V.
29.083	5117.4775	62.32	Q	.	.	.	V.
29.167	5117.8755	57.75	Q	.	.	.	V.
29.250	5118.2422	53.21	Q	.	.	.	V.
29.333	5118.5776	48.70	Q	.	.	.	V.
29.417	5118.8838	44.46	Q	.	.	.	V.
29.500	5119.1689	41.43	Q	.	.	.	V.
29.583	5119.4346	38.58	Q	.	.	.	V.
29.667	5119.6807	35.76	Q	.	.	.	V.
29.750	5119.9077	32.96	Q	.	.	.	V.
29.833	5120.1157	30.17	Q	.	.	.	V.
29.917	5120.3047	27.40	Q	.	.	.	V.
30.000	5120.4746	24.66	Q	.	.	.	V.
30.083	5120.6289	22.40	Q	.	.	.	V.
30.167	5120.7773	21.54	Q	.	.	.	V.
30.250	5120.9204	20.78	Q	.	.	.	V.
30.333	5121.0581	20.02	Q	.	.	.	V.
30.417	5121.1909	19.27	Q	.	.	.	V.
30.500	5121.3184	18.53	Q	.	.	.	V.
30.583	5121.4409	17.79	Q	.	.	.	V.
30.667	5121.5586	17.06	Q	.	.	.	V.
30.750	5121.6709	16.33	Q	.	.	.	V.
30.833	5121.7783	15.62	Q	.	.	.	V.
30.917	5121.8809	14.90	Q	.	.	.	V.
31.000	5121.9785	14.19	Q	.	.	.	V.
31.083	5122.0713	13.49	Q	.	.	.	V.
31.167	5122.1592	12.79	Q	.	.	.	V.
31.250	5122.2427	12.10	Q	.	.	.	V.
31.333	5122.3213	11.40	Q	.	.	.	V.
31.417	5122.3950	10.73	Q	.	.	.	V.
31.500	5122.4644	10.05	Q	.	.	.	V.
31.583	5122.5288	9.38	Q	.	.	.	V.
31.667	5122.5889	8.72	Q	.	.	.	V.
31.750	5122.6445	8.06	Q	.	.	.	V.
31.833	5122.6958	7.41	Q	.	.	.	V.
31.917	5122.7422	6.76	Q	.	.	.	V.
32.000	5122.7842	6.12	Q	.	.	.	V.
32.083	5122.8218	5.48	Q	.	.	.	V.
32.167	5122.8550	4.85	Q	.	.	.	V.
32.250	5122.8838	4.22	Q	.	.	.	V.
32.333	5122.9087	3.59	Q	.	.	.	V.
32.417	5122.9292	2.97	Q	.	.	.	V.
32.500	5122.9453	2.35	Q	.	.	.	V.
32.583	5122.9570	1.73	Q	.	.	.	V.
32.667	5122.9648	1.12	Q	.	.	.	V.
32.750	5122.9683	0.51	Q	.	.	.	V.

-----  
TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:

(Note: 100% of Peak Flow Rate estimate assumed to have an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
=====	=====
0%	1965.0
10%	1380.0
20%	805.0
30%	520.0
40%	410.0
50%	345.0
60%	285.0
70%	235.0
80%	175.0
90%	125.0
=====	=====

END OF FLOODSCx ROUTING ANALYSIS

\*\*\*\*\*

FLOOD ROUTING ANALYSIS  
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)  
(c) Copyright 1989-2010 Advanced Engineering Software (aes)  
Ver. 17.0 Release Date: 07/01/2010 License ID 1527

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*  
\* RMV PA-3 ROMP AMENDMENT 2022 - NODE 137 \*  
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*  
\* 10-YR EV AUG 2023 ROKAMOTO \*  
\*\*\*\*\*

FILE NAME: EV10137S.DAT  
TIME/DATE OF STUDY: 00:42 08/11/2023

\*\* INPUT SUMMARY \*\*

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 137.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS) ADDED TO STREAM #1<<<<

=====

WATERSHED AREA = 67799.000 ACRES; BASEFLOW = 0.000 CFS/SQUARE-MILE  
\*USER ENTERED "LAG" TIME = 2.990 HOURS  
VALLEY (DEVELOPED) S-GRAPH SELECTED  
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.283; LOW LOSS FRACTION = 0.732  
SPECIFIED PEAK RAINFALL DEPTHS (INCH):  
5-MINUTE = 0.31; 30-MINUTE = 0.62; 1-HOUR = 0.85  
3-HOUR = 1.56; 6-HOUR = 2.28; 24-HOUR = 3.97  
\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:  
5-MINUTE = 0.291; 30-MINUTE = 0.350; 1-HOUR = 0.394  
3-HOUR = 0.738; 6-HOUR = 0.886; 24-HOUR = 0.933

=====

-----+  
-----+  
| \* AES FLOODSCx PROGRAM RESULTS SUMMARY \*  
|  
| INPUT FILENAME: [EV10137S.DAT ]  
Page: 1 of |  
-----+-----+  
-----+-----+  
| UPSTREAM DOWNSTREAM | UPSTREAM DOWNSTREAM |  
TIME (2) TO | MAX. STORAGE |  
| NODE # NODE # | HYDROLOGIC/HYDRAULIC PROCESS | PEAK (CFS) PEAK (CFS) |  
PEAK (HR) | MODELED (AF) | FOOTNOTES |  
-----+-----+  
-----+-----+  
| 10100.00 137.00 | Subarea (UH) Added to Stream #1 | 0.0 7637.6 |  
18.750 | | |  
-----+-----+  
-----+-----+  
| Notes: 1 = BASIN MODEL VOLUME EXCEEDED; 2 = TIME IS AT END OF 5-MINUTE UNIT  
INTERVAL |  
| 3 = RUNOFF ESTIMATES DO NOT EXTEND PAST 2 DAYS AFTER THE PEAK DAY OF  
THE DESIGN STORM |  
-----+-----+  
-----+-----+

END OF FLOODSCx ROUTING ANALYSIS

\*\*\*\*\*

FLOOD ROUTING ANALYSIS  
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)  
(c) Copyright 1989-2010 Advanced Engineering Software (aes)  
Ver. 17.0 Release Date: 07/01/2010 License ID 1527

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*  
\* RMV PA-3 ROMP AMENDMENT 2022 - NODE 138 \*  
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*  
\* 10-YR EV AUG 2023 ROKAMOTO \*  
\*\*\*\*\*

FILE NAME: EV10138S.DAT  
TIME/DATE OF STUDY: 00:42 08/11/2023

\*\* INPUT SUMMARY \*\*

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 138.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS) ADDED TO STREAM #1<<<<

=====

WATERSHED AREA = 69102.703 ACRES; BASEFLOW = 0.000 CFS/SQUARE-MILE  
\*USER ENTERED "LAG" TIME = 3.094 HOURS  
VALLEY (DEVELOPED) S-GRAPH SELECTED  
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.282; LOW LOSS FRACTION = 0.732  
SPECIFIED PEAK RAINFALL DEPTHS (INCH):  
5-MINUTE = 0.31; 30-MINUTE = 0.62; 1-HOUR = 0.85  
3-HOUR = 1.55; 6-HOUR = 2.27; 24-HOUR = 3.95  
\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:  
5-MINUTE = 0.287; 30-MINUTE = 0.348; 1-HOUR = 0.392  
3-HOUR = 0.734; 6-HOUR = 0.885; 24-HOUR = 0.932

=====

-----+  
-----+  
| \* AES FLOODSCx PROGRAM RESULTS SUMMARY \*  
|  
| INPUT FILENAME: [EV10138S.DAT ]  
Page: 1 of |  
-----+-----+  
-----+-----+  
| UPSTREAM DOWNSTREAM | UPSTREAM DOWNSTREAM |  
TIME (2) TO | MAX. STORAGE |  
| NODE # NODE # | HYDROLOGIC/HYDRAULIC PROCESS | PEAK (CFS) PEAK (CFS) |  
PEAK (HR) | MODELED (AF) | FOOTNOTES |  
-----+-----+  
-----+-----+  
| 10100.00 138.00 | Subarea (UH) Added to Stream #1 | 0.0 7617.5 |  
18.833 | | |  
-----+-----+  
-----+-----+  
| Notes: 1 = BASIN MODEL VOLUME EXCEEDED; 2 = TIME IS AT END OF 5-MINUTE UNIT  
INTERVAL |  
| 3 = RUNOFF ESTIMATES DO NOT EXTEND PAST 2 DAYS AFTER THE PEAK DAY OF  
THE DESIGN STORM |  
-----+-----+  
-----+-----+

END OF FLOODSCx ROUTING ANALYSIS

\*\*\*\*\*

FLOOD ROUTING ANALYSIS  
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)  
(c) Copyright 1989-2010 Advanced Engineering Software (aes)  
Ver. 17.0 Release Date: 07/01/2010 License ID 1527

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*  
\* RMV PA-3 ROMP AMENDMENT 2022 - NODE 139 \*  
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*  
\* 10-YR EV AUG 2023 ROKAMOTO \*  
\*\*\*\*\*

FILE NAME: EV10139S.DAT  
TIME/DATE OF STUDY: 00:42 08/11/2023

\*\* INPUT SUMMARY \*\*

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 139.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS) ADDED TO STREAM #1<<<<

=====

WATERSHED AREA = 69530.500 ACRES; BASEFLOW = 0.000 CFS/SQUARE-MILE  
\*USER ENTERED "LAG" TIME = 3.152 HOURS  
VALLEY (DEVELOPED) S-GRAPH SELECTED  
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.282; LOW LOSS FRACTION = 0.730  
SPECIFIED PEAK RAINFALL DEPTHS (INCH):  
5-MINUTE = 0.31; 30-MINUTE = 0.62; 1-HOUR = 0.85  
3-HOUR = 1.55; 6-HOUR = 2.27; 24-HOUR = 3.95  
\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:  
5-MINUTE = 0.286; 30-MINUTE = 0.348; 1-HOUR = 0.391  
3-HOUR = 0.733; 6-HOUR = 0.885; 24-HOUR = 0.932

=====

```
+-----+
|
| * AES FLOODSCx PROGRAM RESULTS SUMMARY *
| INPUT FILENAME: [EV10139S.DAT ]
Page: 1 of |
+-----+-----+
|UPSTREAM DOWNSTREAM| | UPSTREAM DOWNSTREAM|
TIME (2) TO | MAX. STORAGE| |
| NODE # NODE # | HYDROLOGIC/HYDRAULIC PROCESS | PEAK (CFS) PEAK (CFS) |
PEAK (HR) | MODELED (AF) | FOOTNOTES |
+-----+-----+-----+
| 10100.00 139.00| Subarea (UH) Added to Stream #1| 0.0 7605.8|
18.917 | | |
+-----+-----+-----+
|Notes: 1 = BASIN MODEL VOLUME EXCEEDED; 2 = TIME IS AT END OF 5-MINUTE UNIT
INTERVAL |
| 3 = RUNOFF ESTIMATES DO NOT EXTEND PAST 2 DAYS AFTER THE PEAK DAY OF
THE DESIGN STORM |
+-----+-----+-----+
+-----+
```

END OF FLOODSCx ROUTING ANALYSIS

\*\*\*\*\*

FLOOD ROUTING ANALYSIS
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)
(c) Copyright 1989-2013 Advanced Engineering Software (aes)
Ver. 20.0 Release Date: 06/01/2013 License ID 1264

Analysis prepared by:

Michael Baker International
5 Hutton Centre Drive, Suite 500
Santa Ana, CA 92707

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*
\* RANCHO MISSION VIEJJO - SINGLE AREA UH \*
\* ULTIMATE CONDITION - REGIONAL NODE 119 \*
\* 25-YR EV SEPTEMBER 2018 CCHIU \*

FILE NAME: EV25119S.DAT
TIME/DATE OF STUDY: 14:00 09/27/2018

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 119.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<

\*\*\*\*\*

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 49495.699 ACRES
BASEFLOW = 0.000 CFS/SQUARE-MILE
\*USER ENTERED "LAG" TIME = 2.119 HOURS
VALLEY (DEVELOPED) S-GRAPH SELECTED
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.298
LOW LOSS FRACTION = 0.433
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.42
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.78
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 1.08
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 2.02
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 3.00
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 5.30

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:
5-MINUTE FACTOR = 0.345
30-MINUTE FACTOR = 0.395
1-HOUR FACTOR = 0.435
3-HOUR FACTOR = 0.785
6-HOUR FACTOR = 0.904
24-HOUR FACTOR = 0.944

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 3.933

UNIT HYDROGRAPH DETERMINATION

Table with 3 columns: INTERVAL NUMBER, "S" GRAPH MEAN VALUES, UNIT HYDROGRAPH ORDINATES (CFS). Rows 1-48.

49	93.426	4484.528
50	94.108	4081.685
51	94.616	3042.722
52	95.115	2989.198
53	95.615	2990.660
54	96.063	2684.451
55	96.379	1889.268
56	96.687	1846.111
57	96.996	1846.111
58	97.304	1846.157
59	97.613	1846.111
60	97.914	1804.507
61	98.055	844.277
62	98.129	440.018
63	98.202	439.972
64	98.276	442.941
65	98.350	442.941
66	98.423	437.004
67	98.497	442.986
68	98.571	442.941
69	98.645	442.941
70	98.718	437.004
71	98.793	445.955
72	98.866	437.004
73	98.940	445.909
74	99.013	437.004
75	99.086	437.004
76	99.159	437.004
77	99.232	437.004
78	99.305	437.004
79	99.378	437.004
80	99.451	437.004
81	99.524	437.004
82	99.597	437.004
83	99.670	437.004
84	99.743	437.004
85	99.816	437.004
86	99.889	437.004
87	99.962	437.004
88	100.000	225.512

-----  
TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 8777.2588  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 11843.7471  
-----

=====  
2 4 - 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 FIVE-MINUTE UNIT INTERVALS (CFS)  
(Note: Time indicated is at END of Each Unit Intervals)

TIME (HRS)	VOLUME (AF)	Q (CFS)	0.	3750.0	7500.0	11250.0	15000.0
0.083	0.0403	5.85	Q	.	.	.	.
0.167	0.1612	17.55	Q	.	.	.	.
0.250	0.3629	29.29	Q	.	.	.	.
0.333	0.6458	41.07	Q	.	.	.	.
0.417	1.0163	53.80	Q	.	.	.	.
0.500	1.5062	71.13	Q	.	.	.	.
0.583	2.1201	89.13	Q	.	.	.	.
0.667	2.8784	110.11	Q	.	.	.	.
0.750	3.8573	142.13	Q	.	.	.	.
0.833	5.1027	180.83	Q	.	.	.	.
0.917	6.6755	228.38	Q	.	.	.	.
1.000	8.6186	282.13	Q	.	.	.	.
1.083	10.9198	334.14	Q	.	.	.	.
1.167	13.6510	396.56	VQ	.	.	.	.
1.250	16.8226	460.52	VQ	.	.	.	.
1.333	20.3835	517.05	VQ	.	.	.	.
1.417	24.4152	585.39	VQ	.	.	.	.
1.500	28.9471	658.04	VQ	.	.	.	.
1.583	33.8972	718.75	VQ	.	.	.	.
1.667	39.3525	792.10	V Q	.	.	.	.
1.750	45.3642	872.90	V Q	.	.	.	.
1.833	51.9610	957.86	V Q	.	.	.	.
1.917	59.0601	1030.78	V Q	.	.	.	.
2.000	66.8374	1129.27	V Q	.	.	.	.
2.083	75.2797	1225.82	V Q	.	.	.	.
2.167	84.4681	1334.16	V Q	.	.	.	.
2.250	94.2282	1417.17	V Q	.	.	.	.
2.333	104.5107	1493.02	V Q	.	.	.	.
2.417	115.3944	1580.30	V Q	.	.	.	.
2.500	126.9968	1684.67	V Q	.	.	.	.
2.583	139.1651	1766.84	V Q	.	.	.	.
2.667	151.8610	1843.45	V Q	.	.	.	.
2.750	165.0794	1919.30	V Q	.	.	.	.
2.833	178.7792	1989.22	V Q	.	.	.	.
2.917	192.9423	2056.47	V Q	.	.	.	.
3.000	207.4757	2110.26	V Q	.	.	.	.
3.083	222.3684	2162.42	V Q	.	.	.	.
3.167	237.6346	2216.64	V Q	.	.	.	.
3.250	253.2574	2268.44	V Q	.	.	.	.
3.333	269.2138	2316.88	V Q	.	.	.	.
3.417	285.4792	2361.73	V Q	.	.	.	.
3.500	302.0176	2401.37	.V Q	.	.	.	.
3.583	318.8014	2437.01	.V Q	.	.	.	.
3.667	335.8059	2469.06	.V Q	.	.	.	.
3.750	353.0255	2500.29	.V Q	.	.	.	.
3.833	370.4507	2530.13	.V Q	.	.	.	.
3.917	388.0802	2559.80	.V Q	.	.	.	.



4.000	405.9052	2588.19	.V	Q	.	.	.	.
4.083	423.9236	2616.26	.V	Q	.	.	.	.
4.167	442.1247	2642.81	.V	Q	.	.	.	.
4.250	460.4779	2664.88	.V	Q	.	.	.	.
4.333	478.9830	2686.95	.V	Q	.	.	.	.
4.417	497.6403	2709.04	.V	Q	.	.	.	.
4.500	516.4422	2730.03	.V	Q	.	.	.	.
4.583	535.3649	2747.58	.V	Q	.	.	.	.
4.667	554.4089	2765.18	.V	Q	.	.	.	.
4.750	573.5740	2782.77	.V	Q	.	.	.	.
4.833	592.8619	2800.60	.V	Q	.	.	.	.
4.917	612.2726	2818.44	.V	Q	.	.	.	.
5.000	631.8065	2836.32	.V	Q	.	.	.	.
5.083	651.4349	2850.04	.V	Q	.	.	.	.
5.167	671.1474	2862.25	.V	Q	.	.	.	.
5.250	690.9437	2874.43	.V	Q	.	.	.	.
5.333	710.8257	2886.86	.V	Q	.	.	.	.
5.417	730.7932	2899.28	.V	Q	.	.	.	.
5.500	750.8478	2911.92	.V	Q	.	.	.	.
5.583	770.9894	2924.57	.V	Q	.	.	.	.
5.667	791.2200	2937.47	.V	Q	.	.	.	.
5.750	811.5392	2950.36	.V	Q	.	.	.	.
5.833	831.9489	2963.48	.V	Q	.	.	.	.
5.917	852.4490	2976.62	.V	Q	.	.	.	.
6.000	873.0413	2990.00	.V	Q	.	.	.	.
6.083	893.7258	3003.40	.V	Q	.	.	.	.
6.167	914.5043	3017.03	.V	Q	.	.	.	.
6.250	935.3765	3030.66	.V	Q	.	.	.	.
6.333	956.3446	3044.56	.V	Q	.	.	.	.
6.417	977.4084	3058.46	.V	Q	.	.	.	.
6.500	998.5699	3072.65	.V	Q	.	.	.	.
6.583	1019.8290	3086.83	.V	Q	.	.	.	.
6.667	1041.1879	3101.31	.V	Q	.	.	.	.
6.750	1062.6464	3115.78	.V	Q	.	.	.	.
6.833	1084.2067	3130.56	.V	Q	.	.	.	.
6.917	1105.8688	3145.34	.V	Q	.	.	.	.
7.000	1127.6349	3160.44	.V	Q	.	.	.	.
7.083	1149.5050	3175.53	.V	Q	.	.	.	.
7.167	1171.4813	3190.95	.V	Q	.	.	.	.
7.250	1193.5638	3206.38	.V	Q	.	.	.	.
7.333	1215.7485	3221.22	.V	Q	.	.	.	.
7.417	1238.0287	3235.08	.V	Q	.	.	.	.
7.500	1260.4067	3249.29	.V	Q	.	.	.	.
7.583	1282.8826	3263.50	.V	Q	.	.	.	.
7.667	1305.4587	3278.06	.V	Q	.	.	.	.
7.750	1328.1353	3292.62	.V	Q	.	.	.	.
7.833	1350.9146	3307.55	.V	Q	.	.	.	.
7.917	1373.7968	3322.49	.V	Q	.	.	.	.
8.000	1396.7844	3337.81	.V	Q	.	.	.	.
8.083	1419.8777	3353.14	.V	Q	.	.	.	.
8.167	1443.0792	3368.86	.V	Q	.	.	.	.
8.250	1466.3892	3384.60	.V	Q	.	.	.	.
8.333	1489.8103	3400.74	.V	Q	.	.	.	.
8.417	1513.3427	3416.90	.V	Q	.	.	.	.
8.500	1536.9893	3433.49	.V	Q	.	.	.	.
8.583	1560.7502	3450.09	.V	Q	.	.	.	.
8.667	1584.6287	3467.14	.V	Q	.	.	.	.
8.750	1608.6246	3484.21	.V	Q	.	.	.	.

8.833	1632.7413	3501.74	.	V	Q.	.	.	.
8.917	1656.9789	3519.30	.	V	Q.	.	.	.
9.000	1681.3407	3537.34	.	V	Q.	.	.	.
9.083	1705.8269	3555.40	.	V	Q.	.	.	.
9.167	1730.4410	3573.97	.	V	Q.	.	.	.
9.250	1755.1832	3592.57	.	V	Q.	.	.	.
9.333	1780.0571	3611.70	.	V	Q.	.	.	.
9.417	1805.0631	3630.86	.	V	Q.	.	.	.
9.500	1830.2048	3650.58	.	V	Q.	.	.	.
9.583	1855.4827	3670.33	.	V	Q.	.	.	.
9.667	1880.9004	3690.66	.	V	Q.	.	.	.
9.750	1906.4585	3711.04	.	V	Q.	.	.	.
9.833	1932.1611	3732.02	.	V	Q.	.	.	.
9.917	1958.0087	3753.06	.	V	Q	.	.	.
10.000	1984.0054	3774.71	.	V	Q	.	.	.
10.083	2010.1517	3796.45	.	V	Q	.	.	.
10.167	2036.4521	3818.82	.	V	Q	.	.	.
10.250	2062.9072	3841.29	.	V	Q	.	.	.
10.333	2089.5217	3864.43	.	V	Q	.	.	.
10.417	2116.2964	3887.67	.	V	Q	.	.	.
10.500	2143.2358	3911.62	.	V	Q	.	.	.
10.583	2170.3411	3935.68	.	V	Q	.	.	.
10.667	2197.6172	3960.48	.	V	Q	.	.	.
10.750	2225.0649	3985.40	.	V	Q	.	.	.
10.833	2252.6897	4011.11	.	V	Q	.	.	.
10.917	2280.4924	4036.96	.	V	Q	.	.	.
11.000	2308.4788	4063.63	.	V	Q	.	.	.
11.083	2336.6499	4090.46	.	V	Q	.	.	.
11.167	2365.0120	4118.16	.	V	Q	.	.	.
11.250	2393.5659	4146.03	.	V	Q	.	.	.
11.333	2422.3181	4174.82	.	V	Q	.	.	.
11.417	2451.2700	4203.81	.	V	Q	.	.	.
11.500	2480.4282	4233.77	.	V	Q	.	.	.
11.583	2509.7942	4263.95	.	V	Q	.	.	.
11.667	2539.3752	4295.16	.	V	Q	.	.	.
11.750	2569.1729	4326.62	.	V	Q	.	.	.
11.833	2599.1946	4359.16	.	V	Q	.	.	.
11.917	2629.4424	4391.99	.	V	Q	.	.	.
12.000	2659.9243	4425.97	.	V	Q	.	.	.
12.083	2690.7087	4469.88	.	V	Q	.	.	.
12.167	2721.8699	4524.59	.	V	Q	.	.	.
12.250	2753.4097	4579.57	.	V	Q	.	.	.
12.333	2785.3364	4635.76	.	V	Q	.	.	.
12.417	2817.6628	4693.78	.	V	Q	.	.	.
12.500	2850.4492	4760.57	.	V	Q	.	.	.
12.583	2883.7046	4828.69	.	V	Q	.	.	.
12.667	2917.4714	4902.95	.	V	Q	.	.	.
12.750	2951.8762	4995.58	.	V	Q	.	.	.
12.833	2987.0027	5100.36	.	V	Q	.	.	.
12.917	3022.9512	5219.72	.	V	Q	.	.	.
13.000	3059.7996	5350.37	.	V	Q	.	.	.
13.083	3097.5271	5478.02	.	V	Q	.	.	.
13.167	3136.2590	5623.88	.	V	Q	.	.	.
13.250	3176.0117	5772.10	.	V	Q	.	.	.
13.333	3216.7083	5909.14	.	V	Q	.	.	.
13.417	3258.4817	6065.49	.	.V	Q	.	.	.
13.500	3301.3884	6230.06	.	.V	Q	.	.	.
13.583	3345.2915	6374.73	.	.V	Q	.	.	.

13.667	3390.3428	6541.44	.	.V	Q	.	.	.
13.750	3436.6255	6720.25	.	.V	Q	.	.	.
13.833	3484.1946	6907.02	.	.V	Q	.	.	.
13.917	3532.9119	7073.77	.	.V	Q	.	.	.
14.000	3583.0759	7283.81	.	.V	Q	.	.	.
14.083	3634.7385	7501.42	.	.V	Q	.	.	.
14.167	3688.1138	7750.10	.	.V	Q	.	.	.
14.250	3742.9080	7956.11	.	.V	.Q	.	.	.
14.333	3799.0420	8150.67	.	.V	.Q	.	.	.
14.417	3856.6533	8365.16	.	.V	.Q	.	.	.
14.500	3915.9966	8616.64	.	.V	.Q	.	.	.
14.583	3976.8203	8831.61	.	.V	.Q	.	.	.
14.667	4039.0989	9042.84	.	.V	.Q	.	.	.
14.750	4102.9585	9272.42	.	.V	.Q	.	.	.
14.833	4168.4116	9503.82	.	.V	.Q	.	.	.
14.917	4235.5254	9744.89	.	.V	.Q	.	.	.
15.000	4304.2134	9973.51	.	.V	.Q	.	.	.
15.083	4374.4087	10192.38	.	.V	.Q	.	.	.
15.167	4446.2529	10431.78	.	.V	.Q	.	.	.
15.250	4519.7080	10665.65	.	.V	.Q	.	.	.
15.333	4594.6143	10876.40	.	.V	.Q	.	.	.
15.417	4670.9541	11084.55	.	.V	.Q	.	.	.
15.500	4748.6064	11275.13	.	.V	.Q	.	.	.
15.583	4827.3516	11433.78	.	.V	.Q	.	.	.
15.667	4907.3110	11610.08	.	.V	.Q	.	.	.
15.750	4988.4976	11788.26	.	.V	.Q	.	.	.
15.833	5070.8247	11953.88	.	.V	.Q	.	.	.
15.917	5154.1572	12099.92	.	.V	.Q	.	.	.
16.000	5238.8652	12299.63	.	.V	.Q	.	.	.
16.083	5325.6050	12594.65	.	.V	.Q	.	.	.
16.167	5414.2471	12870.82	.	.V	.Q	.	.	.
16.250	5503.3291	12934.72	.	.V	.Q	.	.	.
16.333	5592.6709	12972.45	.	.V	.Q	.	.	.
16.417	5682.6768	13068.87	.	.V	.Q	.	.	.
16.500	5773.9966	13259.63	.	.V	.Q	.	.	.
16.583	5865.7344	13320.36	.	.V	.Q	.	.	.
16.667	5958.4385	13460.60	.	.V	.Q	.	.	.
16.750	6053.1968	13758.88	.	.V	.Q	.	.	.
16.833	6149.1748	13936.00	.	.V	.Q	.	.	.
16.917	6246.8408	14181.12	.	.V	.Q	.	.	.
17.000	6345.3838	14308.45	.	.V	.Q	.	.	.
17.083	6443.4849	14244.28	.	.V	.Q	.	.	.
17.167	6542.8315	14425.17	.	.V	.Q	.	.	.
17.250	6642.3984	14457.13	.	.V	.Q	.	.	.
17.333	6740.5864	14256.92	.	.V	.Q	.	.	.
17.417	6840.1782	14460.71	.	.V	.Q	.	.	.
17.500	6939.7334	14455.38	.	.V	.Q	.	.	.
17.583	7037.6284	14214.33	.	.V	.Q	.	.	.
17.667	7137.4819	14498.75	.	.V	.Q	.	.	.
17.750	7238.1162	14612.13	.	.V	.Q	.	.	.
17.833	7338.6562	14598.43	.	.V	.Q	.	.	.
17.917	7437.2236	14311.97	.	.V	.Q	.	.	.
18.000	7539.7061	14880.44	.	.V	.Q	.	.	.
18.083	7641.5439	14786.85	.	.V	.Q	.	.	.
18.167	7744.2856	14918.11	.	.V	.Q	.	.	.
18.250	7842.2451	14223.71	.	.V	.Q	.	.	.
18.333	7939.4561	14115.03	.	.V	.Q	.	.	.
18.417	8038.4990	14381.06	.	.V	.Q	.	.	.

18.500	8139.7646	14703.74	.	.	.	.	V	.	Q
18.583	8237.0117	14120.28	.	.	.	.	V	.	Q
18.667	8332.7188	13896.68	.	.	.	.	V	.	Q
18.750	8427.5049	13762.98	.	.	.	.	V	.	Q
18.833	8520.7080	13533.09	.	.	.	.	V	.	Q
18.917	8612.5703	13338.35	.	.	.	.	V	.	Q
19.000	8701.0918	12853.28	.	.	.	.	V	.	Q
19.083	8788.2197	12650.92	.	.	.	.	V	.	Q
19.167	8874.0332	12460.06	.	.	.	.	V	.	Q
19.250	8958.0879	12204.69	.	.	.	.	V	.	Q
19.333	9040.1455	11914.79	.	.	.	.	V	.	Q
19.417	9119.8066	11566.76	.	.	.	.	V	.	Q
19.500	9196.5498	11143.04	.	.	.	.	V	.	Q
19.583	9271.0547	10818.09	.	.	.	.	V	.	Q
19.667	9343.2646	10484.91	.	.	.	.	V	.	Q
19.750	9413.5127	10200.05	.	.	.	.	V	.	Q
19.833	9481.6504	9893.54	.	.	.	.	V	.	Q
19.917	9548.0723	9644.47	.	.	.	.	V	.	Q
20.000	9612.3750	9336.76	.	.	.	.	V	.	Q
20.083	9674.7090	9050.90	.	.	.	.	V	.	Q
20.167	9734.6367	8701.53	.	.	.	.	V	.	Q
20.250	9792.1152	8345.82	.	.	.	.	V	.	Q
20.333	9847.9248	8103.54	.	.	.	.	V	.	Q
20.417	9902.0410	7857.63	.	.	.	.	V	.	Q
20.500	9954.1230	7562.26	.	.	.	.	V	.	Q
20.583	10004.1113	7258.31	.	.	.	.	V	.	Q
20.667	10052.6426	7046.77	.	.	.	.	V	.	Q
20.750	10099.7939	6846.41	.	.	.	.	V	.	Q
20.833	10145.6523	6658.60	.	.	.	.	V	.	Q
20.917	10190.1562	6461.92	.	.	.	.	V	.	Q
21.000	10233.3887	6277.37	.	.	.	.	V	.	Q
21.083	10274.7852	6010.75	.	.	.	.	V	.	Q
21.167	10314.7744	5806.42	.	.	.	.	V	.	Q
21.250	10353.7314	5656.50	.	.	.	.	V	.	Q
21.333	10391.7109	5514.66	.	.	.	.	V	.	Q
21.417	10428.6904	5369.45	.	.	.	.	V	.	Q
21.500	10464.7256	5232.29	.	.	.	.	V	.	Q
21.583	10499.9209	5110.33	.	.	.	.	V	.	Q
21.667	10534.3271	4995.79	.	.	.	.	V	.	Q
21.750	10567.9629	4883.94	.	.	.	.	V	.	Q
21.833	10600.8516	4775.49	.	.	.	.	V	.	Q
21.917	10633.0146	4670.05	.	.	.	.	V	.	Q
22.000	10664.4668	4566.89	.	.	.	.	V	.	Q
22.083	10695.2871	4475.14	.	.	.	.	V	.	Q
22.167	10725.5176	4389.46	.	.	.	.	V	.	Q
22.250	10755.2285	4314.03	.	.	.	.	V	.	Q
22.333	10784.4336	4240.57	.	.	.	.	V	.	Q
22.417	10813.1445	4168.84	.	.	.	.	V	.	Q
22.500	10841.3867	4100.82	.	.	.	.	V	.	Q
22.583	10869.2100	4039.92	.	.	.	.	V	.	Q
22.667	10896.6416	3983.05	.	.	.	.	V	.	Q
22.750	10923.7061	3929.82	.	.	.	.	V	.	Q
22.833	10950.4102	3877.45	.	.	.	.	V	.	Q
22.917	10976.7578	3825.69	.	.	.	.	V	.	Q
23.000	11002.7627	3775.89	.	.	.	.	V	.	Q
23.083	11028.4814	3734.32	.	.	.	.	V	.	Q
23.167	11053.9297	3695.10	.	.	.	.	V	.	Q
23.250	11079.0947	3653.98	.	.	.	.	V	.	Q

23.333	11103.8389	3592.86	.	Q.	.	.	V	.
23.417	11128.1758	3533.69	.	Q.	.	.	V	.
23.500	11152.2686	3498.34	.	Q.	.	.	V	.
23.583	11176.1260	3464.16	.	Q.	.	.	V	.
23.667	11199.7432	3429.21	.	Q.	.	.	V	.
23.750	11223.1084	3392.66	.	Q.	.	.	V	.
23.833	11246.2256	3356.63	.	Q.	.	.	V	.
23.917	11269.0977	3321.00	.	Q.	.	.	V	.
24.000	11291.7275	3285.91	.	Q.	.	.	V	.
24.083	11314.0781	3245.37	.	Q.	.	.	V	.
24.167	11336.1133	3199.55	.	Q.	.	.	V	.
24.250	11357.8369	3154.23	.	Q.	.	.	V	.
24.333	11379.2637	3111.17	.	Q.	.	.	V	.
24.417	11400.4043	3069.67	.	Q.	.	.	V	.
24.500	11421.2334	3024.32	.	Q.	.	.	V	.
24.583	11441.7500	2979.06	.	Q.	.	.	V	.
24.667	11461.9395	2931.55	.	Q.	.	.	V	.
24.750	11481.7314	2873.75	.	Q.	.	.	V	.
24.833	11501.0850	2810.08	.	Q.	.	.	V	.
24.917	11519.9443	2738.40	.	Q.	.	.	V	.
25.000	11538.2734	2661.41	.	Q.	.	.	V	.
25.083	11556.0908	2587.08	.	Q.	.	.	V	.
25.167	11573.3311	2503.23	.	Q.	.	.	V	.
25.250	11589.9893	2418.79	.	Q.	.	.	V	.
25.333	11606.1338	2344.22	.	Q.	.	.	V	.
25.417	11621.7012	2260.35	.	Q.	.	.	V	.
25.500	11636.6680	2173.13	.	Q.	.	.	V	.
25.583	11651.1230	2098.81	.	Q.	.	.	V	.
25.667	11664.9854	2012.74	.	Q.	.	.	V	.
25.750	11678.2100	1920.17	.	Q.	.	.	V	.
25.833	11690.7754	1824.46	.	Q.	.	.	V	.
25.917	11702.7705	1741.76	.	Q.	.	.	V	.
26.000	11714.0273	1634.46	.	Q.	.	.	V	.
26.083	11724.5654	1530.14	.	Q.	.	.	V	.
26.167	11734.3115	1415.17	.	Q.	.	.	V	.
26.250	11743.4473	1326.56	.	Q.	.	.	V	.
26.333	11752.0293	1246.11	.	Q.	.	.	V	.
26.417	11759.9834	1155.00	.	Q.	.	.	V	.
26.500	11767.2002	1047.83	.	Q.	.	.	V	.
26.583	11773.8379	963.80	.	Q.	.	.	V	.
26.667	11779.9414	886.27	.	Q.	.	.	V	.
26.750	11785.5215	810.18	.	Q.	.	.	V	.
26.833	11790.6240	740.91	.	Q.	.	.	V	.
26.917	11795.2725	674.90	.	Q.	.	.	V	.
27.000	11799.5635	623.12	.	Q.	.	.	V	.
27.083	11803.5127	573.43	.	Q.	.	.	V	.
27.167	11807.1094	522.31	.	Q.	.	.	V	.
27.250	11810.3740	474.06	.	Q.	.	.	V	.
27.333	11813.3340	429.77	.	Q.	.	.	V	.
27.417	11816.0166	389.46	.	Q.	.	.	V	.
27.500	11818.4609	354.90	.	Q.	.	.	V	.
27.583	11820.6963	324.63	.	Q.	.	.	V	.
27.667	11822.7510	298.41	.	Q.	.	.	V	.
27.750	11824.6328	273.22	.	Q.	.	.	V	.
27.833	11826.3535	249.83	.	Q.	.	.	V	.
27.917	11827.9160	226.82	.	Q.	.	.	V	.
28.000	11829.3311	205.48	.	Q.	.	.	V	.
28.083	11830.6025	184.64	.	Q.	.	.	V	.

28.167	11831.7432	165.69	Q	.	.	.	V	.
28.250	11832.7861	151.37	Q	.	.	.	V	.
28.333	11833.7324	137.38	Q	.	.	.	V	.
28.417	11834.5830	123.48	Q	.	.	.	V	.
28.500	11835.3477	111.00	Q	.	.	.	V	.
28.583	11836.0508	102.05	Q	.	.	.	V	.
28.667	11836.6934	93.36	Q	.	.	.	V	.
28.750	11837.2764	84.72	Q	.	.	.	V	.
28.833	11837.8008	76.14	Q	.	.	.	V	.
28.917	11838.2666	67.61	Q	.	.	.	V	.
29.000	11838.6748	59.32	Q	.	.	.	V	.
29.083	11839.0557	55.26	Q	.	.	.	V	.
29.167	11839.4209	52.97	Q	.	.	.	V	.
29.250	11839.7705	50.70	Q	.	.	.	V	.
29.333	11840.1045	48.44	Q	.	.	.	V	.
29.417	11840.4229	46.20	Q	.	.	.	V	.
29.500	11840.7256	44.00	Q	.	.	.	V	.
29.583	11841.0137	41.79	Q	.	.	.	V	.
29.667	11841.2861	39.59	Q	.	.	.	V	.
29.750	11841.5439	37.41	Q	.	.	.	V	.
29.833	11841.7871	35.27	Q	.	.	.	V	.
29.917	11842.0156	33.11	Q	.	.	.	V	.
30.000	11842.2295	31.01	Q	.	.	.	V	.
30.083	11842.4287	28.88	Q	.	.	.	V	.
30.167	11842.6133	26.80	Q	.	.	.	V	.
30.250	11842.7832	24.74	Q	.	.	.	V	.
30.333	11842.9395	22.69	Q	.	.	.	V	.
30.417	11843.0820	20.65	Q	.	.	.	V	.
30.500	11843.2100	18.63	Q	.	.	.	V	.
30.583	11843.3242	16.62	Q	.	.	.	V	.
30.667	11843.4248	14.62	Q	.	.	.	V	.
30.750	11843.5117	12.64	Q	.	.	.	V	.
30.833	11843.5850	10.66	Q	.	.	.	V	.
30.917	11843.6445	8.70	Q	.	.	.	V	.
31.000	11843.6914	6.76	Q	.	.	.	V	.
31.083	11843.7246	4.82	Q	.	.	.	V	.
31.167	11843.7441	2.90	Q	.	.	.	V	.
31.250	11843.7510	0.98	Q	.	.	.	V	.

-----  
TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
(Note: 100% of Peak Flow Rate estimate assumed to have  
an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
=====	=====
0%	1875.0
10%	1430.0
20%	1115.0
30%	595.0
40%	465.0
50%	390.0
60%	330.0
70%	270.0
80%	210.0
90%	135.0
=====	=====

END OF FLOODSCx ROUTING ANALYSIS

\*\*\*\*\*

FLOOD ROUTING ANALYSIS
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)
(c) Copyright 1989-2013 Advanced Engineering Software (aes)
Ver. 20.0 Release Date: 06/01/2013 License ID 1237

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*
\* RMV PA-3 BODR 2022 - NODE 126 \*
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*
\* 25-YR EV JULY 2022 ROKAMOTO \*

FILE NAME: EV25126S.DAT
TIME/DATE OF STUDY: 14:02 07/24/2022

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 126.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<

\*\*\*\*\*

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 50438.699 ACRES
BASEFLOW = 0.000 CFS/SQUARE-MILE
\*USER ENTERED "LAG" TIME = 2.211 HOURS
VALLEY (DEVELOPED) S-GRAPH SELECTED
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.297
LOW LOSS FRACTION = 0.434
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.41
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.78
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 1.08
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 2.01
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 2.99
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 5.27

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:
5-MINUTE FACTOR = 0.341
30-MINUTE FACTOR = 0.392
1-HOUR FACTOR = 0.432
3-HOUR FACTOR = 0.782
6-HOUR FACTOR = 0.902
24-HOUR FACTOR = 0.943

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 3.769

UNIT HYDROGRAPH DETERMINATION

Table with 3 columns: INTERVAL NUMBER, "S" GRAPH MEAN VALUES, UNIT HYDROGRAPH ORDINATES (CFS). Rows 1-48.

49	91.899	4807.083
50	92.632	4467.304
51	93.350	4379.532
52	94.025	4120.404
53	94.524	3040.890
54	95.002	2919.145
55	95.481	2919.191
56	95.943	2822.810
57	96.270	1994.559
58	96.566	1803.378
59	96.862	1803.331
60	97.157	1803.378
61	97.453	1803.331
62	97.748	1801.795
63	97.996	1512.510
64	98.081	518.395
65	98.152	429.925
66	98.222	429.879
67	98.293	433.090
68	98.364	429.879
69	98.435	433.043
70	98.505	429.925
71	98.576	433.043
72	98.647	433.043
73	98.717	426.761
74	98.788	433.043
75	98.859	433.043
76	98.929	426.761
77	99.001	436.208
78	99.071	426.761
79	99.141	426.761
80	99.211	426.761
81	99.280	426.761
82	99.350	426.761
83	99.420	426.761
84	99.490	426.761
85	99.560	426.761
86	99.630	426.761
87	99.700	426.761
88	99.770	426.761
89	99.840	426.761
90	99.910	426.761
91	99.980	426.761
92	100.000	121.420

-----  
TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 8909.1338  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 11968.3936  
-----

=====

2 4 - 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 FIVE-MINUTE UNIT INTERVALS (CFS)  
(Note: Time indicated is at END of Each Unit Intervals)

TIME (HRS)	VOLUME (AF)	Q (CFS)	0.	3750.0	7500.0	11250.0	15000.0
0.083	0.0390	5.66	Q	.	.	.	.
0.167	0.1561	17.00	Q	.	.	.	.
0.250	0.3515	28.38	Q	.	.	.	.
0.333	0.6255	39.78	Q	.	.	.	.
0.417	0.9809	51.60	Q	.	.	.	.
0.500	1.4475	67.76	Q	.	.	.	.
0.583	2.0342	85.19	Q	.	.	.	.
0.667	2.7460	103.35	Q	.	.	.	.
0.750	3.6542	131.87	Q	.	.	.	.
0.833	4.7979	166.07	Q	.	.	.	.
0.917	6.2338	208.49	Q	.	.	.	.
1.000	8.0218	259.61	Q	.	.	.	.
1.083	10.1604	310.53	Q	.	.	.	.
1.167	12.6540	362.07	Q	.	.	.	.
1.250	15.6130	429.64	VQ	.	.	.	.
1.333	18.9587	485.80	VQ	.	.	.	.
1.417	22.6957	542.62	VQ	.	.	.	.
1.500	26.9208	613.49	VQ	.	.	.	.
1.583	31.6025	679.78	VQ	.	.	.	.
1.667	36.6952	739.46	VQ	.	.	.	.
1.750	42.2926	812.74	V Q	.	.	.	.
1.833	48.4416	892.84	V Q	.	.	.	.
1.917	55.1468	973.59	V Q	.	.	.	.
2.000	62.3425	1044.82	V Q	.	.	.	.
2.083	70.1985	1140.68	V Q	.	.	.	.
2.167	78.6978	1234.10	V Q	.	.	.	.
2.250	87.9244	1339.71	V Q	.	.	.	.
2.333	97.7229	1422.74	V Q	.	.	.	.
2.417	108.0291	1496.46	V Q	.	.	.	.
2.500	118.8936	1577.53	V Q	.	.	.	.
2.583	130.4468	1677.52	V Q	.	.	.	.
2.667	142.5999	1764.64	V Q	.	.	.	.
2.750	155.2542	1837.39	V Q	.	.	.	.
2.833	168.4451	1915.32	V Q	.	.	.	.
2.917	182.0983	1982.46	V Q	.	.	.	.
3.000	196.2266	2051.42	V Q	.	.	.	.
3.083	210.7557	2109.63	V Q	.	.	.	.
3.167	225.6338	2160.29	V Q	.	.	.	.
3.250	240.8665	2211.80	V Q	.	.	.	.
3.333	256.4628	2264.58	V Q	.	.	.	.
3.417	272.3993	2313.97	V Q	.	.	.	.
3.500	288.6538	2360.16	V Q	.	.	.	.
3.583	305.2017	2402.75	.V Q	.	.	.	.
3.667	322.0126	2440.95	.V Q	.	.	.	.
3.750	339.0568	2474.81	.V Q	.	.	.	.
3.833	356.3169	2506.18	.V Q	.	.	.	.
3.917	373.7879	2536.78	.V Q	.	.	.	.

4.000	391.4600	2565.99	.V	Q	.	.	.	.
4.083	409.3337	2595.27	.V	Q	.	.	.	.
4.167	427.3995	2623.15	.V	Q	.	.	.	.
4.250	445.6561	2650.86	.V	Q	.	.	.	.
4.333	464.0963	2677.51	.V	Q	.	.	.	.
4.417	482.6895	2699.74	.V	Q	.	.	.	.
4.500	501.4325	2721.48	.V	Q	.	.	.	.
4.583	520.3266	2743.43	.V	Q	.	.	.	.
4.667	539.3693	2765.00	.V	Q	.	.	.	.
4.750	558.5375	2783.22	.V	Q	.	.	.	.
4.833	577.8257	2800.65	.V	Q	.	.	.	.
4.917	597.2354	2818.28	.V	Q	.	.	.	.
5.000	616.7667	2835.95	.V	Q	.	.	.	.
5.083	636.4211	2853.83	.V	Q	.	.	.	.
5.167	656.1989	2871.73	.V	Q	.	.	.	.
5.250	676.0928	2888.60	.V	Q	.	.	.	.
5.333	696.0737	2901.22	.V	Q	.	.	.	.
5.417	716.1403	2913.67	.V	Q	.	.	.	.
5.500	736.2927	2926.13	.V	Q	.	.	.	.
5.583	756.5325	2938.82	.V	Q	.	.	.	.
5.667	776.8597	2951.51	.V	Q	.	.	.	.
5.750	797.2759	2964.44	.V	Q	.	.	.	.
5.833	817.7812	2977.37	.V	Q	.	.	.	.
5.917	838.3773	2990.55	.V	Q	.	.	.	.
6.000	859.0643	3003.74	.V	Q	.	.	.	.
6.083	879.8435	3017.15	.V	Q	.	.	.	.
6.167	900.7154	3030.60	.V	Q	.	.	.	.
6.250	921.6816	3044.29	.V	Q	.	.	.	.
6.333	942.7421	3057.98	.V	Q	.	.	.	.
6.417	963.8989	3071.97	.V	Q	.	.	.	.
6.500	985.1519	3085.93	.V	Q	.	.	.	.
6.583	1006.5028	3100.16	.V	Q	.	.	.	.
6.667	1027.9519	3114.41	.V	Q	.	.	.	.
6.750	1049.5010	3128.93	.V	Q	.	.	.	.
6.833	1071.1503	3143.47	.V	Q	.	.	.	.
6.917	1092.9016	3158.29	.V	Q	.	.	.	.
7.000	1114.7552	3173.15	.V	Q	.	.	.	.
7.083	1136.7131	3188.29	.V	Q	.	.	.	.
7.167	1158.7755	3203.46	.V	Q	.	.	.	.
7.250	1180.9445	3218.93	.V	Q	.	.	.	.
7.333	1203.2202	3234.44	.V	Q	.	.	.	.
7.417	1225.6049	3250.25	.V	Q	.	.	.	.
7.500	1248.0986	3266.10	.V	Q	.	.	.	.
7.583	1270.7037	3282.26	.V	Q	.	.	.	.
7.667	1293.4115	3297.16	.V	Q	.	.	.	.
7.750	1316.2205	3311.85	.V	Q	.	.	.	.
7.833	1339.1309	3326.59	.V	Q	.	.	.	.
7.917	1362.1450	3341.66	.V	Q	.	.	.	.
8.000	1385.2633	3356.77	.V	Q	.	.	.	.
8.083	1408.4880	3372.23	.V	Q	.	.	.	.
8.167	1431.8196	3387.73	.V	Q	.	.	.	.
8.250	1455.2604	3403.60	.V	Q	.	.	.	.
8.333	1478.8108	3419.52	.V	Q	.	.	.	.
8.417	1502.4734	3435.81	.V	Q	.	.	.	.
8.500	1526.2487	3452.16	.V	Q	.	.	.	.
8.583	1550.1392	3468.90	.V	Q	.	.	.	.
8.667	1574.1454	3485.70	.V	Q	.	.	.	.
8.750	1598.2700	3502.91	.V	Q	.	.	.	.

8.833	1622.5137	3520.17	.	V	Q	.	.	.
8.917	1646.8792	3537.87	.	V	Q	.	.	.
9.000	1671.3669	3555.63	.	V	Q	.	.	.
9.083	1695.9801	3573.84	.	V	Q	.	.	.
9.167	1720.7192	3592.12	.	V	Q	.	.	.
9.250	1745.5874	3610.86	.	V	Q	.	.	.
9.333	1770.5852	3629.68	.	V	Q	.	.	.
9.417	1795.7159	3648.99	.	V	Q	.	.	.
9.500	1820.9802	3668.38	.	V	Q	.	.	.
9.583	1846.3816	3688.27	.	V	Q	.	.	.
9.667	1871.9207	3708.27	.	V	Q	.	.	.
9.750	1897.6010	3728.79	.	V	Q	.	.	.
9.833	1923.4233	3749.41	.	V	Q	.	.	.
9.917	1949.3916	3770.59	.	V	Q	.	.	.
10.000	1975.5065	3791.88	.	V	Q	.	.	.
10.083	2001.7720	3813.74	.	V	Q	.	.	.
10.167	2028.1890	3835.74	.	V	Q	.	.	.
10.250	2054.7615	3858.33	.	V	Q	.	.	.
10.333	2081.4905	3881.07	.	V	Q	.	.	.
10.417	2108.3806	3904.43	.	V	Q	.	.	.
10.500	2135.4326	3927.95	.	V	Q	.	.	.
10.583	2162.6511	3952.13	.	V	Q	.	.	.
10.667	2190.0374	3976.49	.	V	Q	.	.	.
10.750	2217.5962	4001.53	.	V	Q	.	.	.
10.833	2245.3289	4026.77	.	V	Q	.	.	.
10.917	2273.2402	4052.73	.	V	Q	.	.	.
11.000	2301.3318	4078.90	.	V	Q	.	.	.
11.083	2329.6089	4105.84	.	V	Q	.	.	.
11.167	2358.0730	4133.00	.	V	.Q	.	.	.
11.250	2386.7300	4160.98	.	V	.Q	.	.	.
11.333	2415.5813	4189.21	.	V	.Q	.	.	.
11.417	2444.6328	4218.29	.	V	.Q	.	.	.
11.500	2473.8867	4247.65	.	V	.Q	.	.	.
11.583	2503.3489	4277.92	.	V	.Q	.	.	.
11.667	2533.0217	4308.49	.	V	.Q	.	.	.
11.750	2562.9116	4340.03	.	V	.Q	.	.	.
11.833	2593.0210	4371.90	.	V	.Q	.	.	.
11.917	2623.3569	4404.79	.	V	.Q	.	.	.
12.000	2653.9221	4438.05	.	V	.Q	.	.	.
12.083	2684.7881	4481.75	.	V	.Q	.	.	.
12.167	2716.0222	4535.18	.	V	.Q	.	.	.
12.250	2747.6316	4589.69	.	V	.Q	.	.	.
12.333	2779.6189	4644.55	.	V	.Q	.	.	.
12.417	2811.9961	4701.18	.	V	.Q	.	.	.
12.500	2844.8152	4765.32	.	V	.Q	.	.	.
12.583	2878.0981	4832.68	.	V	.Q	.	.	.
12.667	2911.8555	4901.55	.	V	.Q	.	.	.
12.750	2946.2129	4988.71	.	V	.Q	.	.	.
12.833	2981.2368	5085.46	.	V	.Q	.	.	.
12.917	3017.0278	5196.86	.	V	.Q	.	.	.
13.000	3053.6855	5322.72	.	V	Q	.	.	.
13.083	3091.2144	5449.18	.	V	Q	.	.	.
13.167	3129.6213	5576.68	.	V	Q	.	.	.
13.250	3169.0955	5731.65	.	V	Q	.	.	.
13.333	3209.5063	5867.68	.	V	Q	.	.	.
13.417	3250.8682	6005.73	.	V	Q	.	.	.
13.500	3293.3413	6167.10	.	.V	Q	.	.	.
13.583	3336.8801	6321.83	.	.V	Q	.	.	.

13.667	3381.4089	6465.60	.	.V	Q	.	.	.
13.750	3427.0906	6632.98	.	.V	Q	.	.	.
13.833	3474.0024	6811.62	.	.V	Q	.	.	.
13.917	3522.1592	6992.34	.	.V	Q	.	.	.
14.000	3571.4519	7157.29	.	.V	Q	.	.	.
14.083	3622.2417	7374.69	.	.V	Q	.	.	.
14.167	3674.5720	7598.36	.	.V	Q	.	.	.
14.250	3728.5820	7842.26	.	.V	Q	.	.	.
14.333	3784.0090	8048.01	.	.V	.Q	.	.	.
14.417	3840.7532	8239.25	.	.V	.Q	.	.	.
14.500	3898.9507	8450.27	.	.V	.Q	.	.	.
14.583	3958.8330	8694.91	.	.V	.Q	.	.	.
14.667	4020.2546	8918.41	.	.V	.Q	.	.	.
14.750	4083.1836	9137.30	.	.V	.Q	.	.	.
14.833	4147.7412	9373.79	.	.V	.Q	.	.	.
14.917	4213.9014	9606.45	.	.V	.Q	.	.	.
15.000	4281.7783	9855.76	.	.V	.Q	.	.	.
15.083	4351.2295	10084.32	.	.V	.Q	.	.	.
15.167	4422.1519	10297.96	.	.V	.Q	.	.	.
15.250	4494.7446	10540.44	.	.V	.Q	.	.	.
15.333	4568.8423	10759.00	.	.V	.Q	.	.	.
15.417	4644.2930	10955.43	.	.V	.Q	.	.	.
15.500	4721.1250	11156.01	.	.V	.Q	.	.	.
15.583	4799.2271	11340.38	.	.V	.Q	.	.	.
15.667	4878.4507	11503.26	.	.V	.Q	.	.	.
15.750	4958.8711	11677.04	.	.V	.Q	.	.	.
15.833	5040.4282	11842.08	.	.V	.Q	.	.	.
15.917	5123.1382	12009.46	.	.V	.Q	.	.	.
16.000	5206.9429	12168.42	.	.V	.Q	.	.	.
16.083	5292.8315	12471.02	.	.V	.Q	.	.	.
16.167	5380.5156	12731.75	.	.V	.Q	.	.	.
16.250	5469.0981	12862.19	.	.V	.Q	.	.	.
16.333	5558.1499	12930.33	.	.V	.Q	.	.	.
16.417	5647.6270	12992.09	.	.V	.Q	.	.	.
16.500	5738.2900	13164.25	.	.V	.Q	.	.	.
16.583	5829.6597	13266.86	.	.V	.Q	.	.	.
16.667	5921.8140	13380.79	.	.V	.Q	.	.	.
16.750	6016.0229	13679.16	.	.V	.Q	.	.	.
16.833	6111.4805	13860.46	.	.V	.Q	.	.	.
16.917	6208.4072	14073.79	.	.V	.Q	.	.	.
17.000	6306.9634	14310.39	.	.V	.Q	.	.	.
17.083	6405.5327	14312.25	.	.V	.Q	.	.	.
17.167	6504.0190	14300.20	.	.V	.Q	.	.	.
17.250	6604.6416	14610.41	.	.V	.Q	.	.	.
17.333	6703.6875	14381.50	.	.V	.Q	.	.	.
17.417	6802.6465	14368.86	.	.V	.Q	.	.	.
17.500	6903.2246	14603.93	.	.V	.Q	.	.	.
17.583	7002.6479	14436.25	.	.V	.Q	.	.	.
17.667	7101.2017	14310.02	.	.V	.Q	.	.	.
17.750	7201.7598	14601.07	.	.V	.Q	.	.	.
17.833	7303.0791	14711.55	.	.V	.Q	.	.	.
17.917	7403.7046	14610.84	.	.V	.Q	.	.	.
18.000	7502.5547	14353.05	.	.V	.Q	.	.	.
18.083	7605.1421	14895.70	.	.V	.Q	.	.	.
18.167	7706.9600	14783.93	.	.V	.Q	.	.	.
18.250	7809.6929	14916.82	.	.V	.Q	.	.	.
18.333	7908.1035	14289.21	.	.V	.Q	.	.	.
18.417	8005.2642	14107.70	.	.V	.Q	.	.	.

18.500	8103.5718	14274.29	.	.	.	.	V	.	Q	.
18.583	8204.5801	14666.38	.	.	.	.	V	.	Q	.
18.667	8303.0166	14292.97	.	.	.	.	V	.	Q	.
18.750	8398.4287	13853.82	.	.	.	.	V	.	Q	.
18.833	8493.7002	13833.47	.	.	.	.	V	.	Q	.
18.917	8586.6055	13489.81	.	.	.	.	V	.	Q	.
19.000	8678.9043	13401.81	.	.	.	.	V	.	Q	.
19.083	8768.1699	12961.32	.	.	.	.	V	.	Q	.
19.167	8855.2383	12642.28	.	.	.	.	V	.	Q	.
19.250	8940.8369	12428.89	.	.	.	.	V	.	Q	.
19.333	9025.3828	12276.11	.	.	.	.	V	.	Q	.
19.417	9108.0488	12003.09	.	.	.	.	V	.	Q	.
19.500	9188.4873	11679.68	.	.	.	.	V	.	Q	.
19.583	9266.3633	11307.64	.	.	.	.	V	.	Q	.
19.667	9341.8164	10955.80	.	.	.	.	V	.	Q	.
19.750	9414.9053	10612.55	.	.	.	.	V	.	Q	.
19.833	9485.7822	10291.30	.	.	.	.	V	.	Q	.
19.917	9554.7549	10014.81	.	.	.	.	V	.	Q	.
20.000	9621.7812	9732.27	.	.	.	.	V	.	Q	.
20.083	9686.9170	9457.77	.	.	.	.	V	.	Q	.
20.167	9750.0430	9165.96	.	.	.	.	V	.	Q	.
20.250	9811.1104	8867.00	.	.	.	.	V	.	Q	.
20.333	9870.1670	8575.07	.	.	.	.	V	.	Q	.
20.417	9926.8896	8236.15	.	.	.	.	V	.	Q	.
20.500	9981.8730	7983.59	.	.	.	.	V	.	Q	.
20.583	10035.0127	7715.88	.	.	.	.	V	.	Q	.
20.667	10086.4775	7472.72	.	.	.	.	V	.	Q	.
20.750	10135.9746	7186.95	.	.	.	.	V	.	Q	.
20.833	10183.9160	6961.04	.	.	.	.	V	.	Q	.
20.917	10230.5752	6774.95	.	.	.	.	V	.	Q	.
21.000	10275.9814	6593.04	.	.	.	.	V	.	Q	.
21.083	10320.1943	6419.75	.	.	.	.	V	.	Q	.
21.167	10363.2539	6252.19	.	.	.	.	V	.	Q	.
21.250	10404.9307	6051.42	.	.	.	.	V	.	Q	.
21.333	10444.8135	5790.98	.	.	.	.	V	.	Q	.
21.417	10483.6416	5637.79	.	.	.	.	V	.	Q	.
21.500	10521.5312	5501.53	.	.	.	.	V	.	Q	.
21.583	10558.5332	5372.63	.	.	.	.	V	.	Q	.
21.667	10594.6250	5240.49	.	.	.	.	V	.	Q	.
21.750	10629.9004	5122.03	.	.	.	.	V	.	Q	.
21.833	10664.4043	5010.00	.	.	.	.	V	.	Q	.
21.917	10698.1611	4901.44	.	.	.	.	V	.	Q	.
22.000	10731.1924	4796.13	.	.	.	.	V	.	Q	.
22.083	10763.5039	4691.69	.	.	.	.	V	.	Q	.
22.167	10795.1289	4591.94	.	.	.	.	V	.	Q	.
22.250	10826.0908	4495.64	.	.	.	.	V	.	Q	.
22.333	10856.4629	4410.07	.	.	.	.	V	.	Q	.
22.417	10886.3242	4335.93	.	.	.	.	V	.	Q	.
22.500	10915.6816	4262.63	.	.	.	.	V	.	Q	.
22.583	10944.5508	4191.87	.	.	.	.	V	.	Q	.
22.667	10972.9482	4123.26	.	.	.	.	V	.	Q	.
22.750	11000.9238	4062.07	.	.	.	.	V	.	Q	.
22.833	11028.4971	4003.61	.	.	.	.	V	.	Q	.
22.917	11055.6768	3946.47	.	.	.	.	V	.	Q	.
23.000	11082.4941	3893.88	.	.	.	.	V	.	Q	.
23.083	11108.9658	3843.63	.	.	.	.	V	.	Q	.
23.167	11135.0947	3793.96	.	.	.	.	V	.	Q	.
23.250	11160.9004	3746.96	.	.	.	.	V	.	Q	.



23.333	11186.4443	3708.94	.	Q.	.	.	V	.
23.417	11211.7363	3672.35	.	Q.	.	.	V	.
23.500	11236.7695	3634.78	.	Q.	.	.	V	.
23.583	11261.5293	3595.13	.	Q.	.	.	V	.
23.667	11285.8281	3528.21	.	Q.	.	.	V	.
23.750	11309.8076	3481.80	.	Q.	.	.	V	.
23.833	11333.5557	3448.26	.	Q.	.	.	V	.
23.917	11357.0830	3416.10	.	Q.	.	.	V	.
24.000	11380.3750	3381.95	.	Q.	.	.	V	.
24.083	11403.3877	3341.50	.	Q	.	.	V	.
24.167	11426.0859	3295.79	.	Q	.	.	V	.
24.250	11448.4727	3250.57	.	Q	.	.	V	.
24.333	11470.5518	3205.87	.	Q	.	.	V	.
24.417	11492.3232	3161.21	.	Q	.	.	V	.
24.500	11513.7607	3112.78	.	Q	.	.	V	.
24.583	11534.8604	3063.61	.	Q	.	.	V	.
24.667	11555.6367	3016.77	.	Q	.	.	V	.
24.750	11576.0312	2961.27	.	Q	.	.	V	.
24.833	11596.0098	2900.95	.	Q	.	.	V	.
24.917	11615.5225	2833.26	.	Q	.	.	V	.
25.000	11634.5156	2757.78	.	Q	.	.	V	.
25.083	11652.9961	2683.43	.	Q	.	.	V	.
25.167	11670.9668	2609.37	.	Q	.	.	V	.
25.250	11688.3232	2520.22	.	Q	.	.	V	.
25.333	11705.1514	2443.44	.	Q	.	.	V	.
25.417	11721.4521	2366.92	.	Q	.	.	V	.
25.500	11737.1357	2277.22	.	Q	.	.	V	.
25.583	11752.2393	2193.07	.	Q	.	.	V	.
25.667	11766.8301	2118.63	.	Q	.	.	V	.
25.750	11780.8271	2032.33	.	Q	.	.	V	.
25.833	11794.1895	1940.18	.	Q	.	.	V	.
25.917	11806.9199	1848.40	.	Q	.	.	V	.
26.000	11819.0898	1767.09	.	Q	.	.	V	.
26.083	11830.5371	1662.12	.	Q	.	.	V	.
26.167	11841.2852	1560.62	.	Q	.	.	V	.
26.250	11851.2578	1448.06	.	Q	.	.	V	.
26.333	11860.6182	1359.11	.	Q	.	.	V	.
26.417	11869.4365	1280.47	.	Q	.	.	V	.
26.500	11877.6680	1195.23	.	Q	.	.	V	.
26.583	11885.1895	1092.07	.	Q	.	.	V	.
26.667	11892.0947	1002.70	.	Q	.	.	V	.
26.750	11898.4902	928.67	.	Q	.	.	V	.
26.833	11904.3457	850.15	.	Q	.	.	V	.
26.917	11909.7402	783.30	.	Q	.	.	V	.
27.000	11914.6660	715.24	.	Q	.	.	V	.
27.083	11919.2021	658.71	.	Q	.	.	V	.
27.167	11923.4053	610.23	.	Q	.	.	V	.
27.250	11927.2725	561.53	.	Q	.	.	V	.
27.333	11930.7988	511.99	.	Q	.	.	V	.
27.417	11934.0117	466.46	.	Q	.	.	V	.
27.500	11936.9355	424.54	.	Q	.	.	V	.
27.583	11939.5996	386.77	.	Q	.	.	V	.
27.667	11942.0361	353.72	.	Q	.	.	V	.
27.750	11944.2773	325.48	.	Q	.	.	V	.
27.833	11946.3438	299.99	.	Q	.	.	V	.
27.917	11948.2422	275.66	.	Q	.	.	V	.
28.000	11949.9844	252.95	.	Q	.	.	V	.
28.083	11951.5723	230.55	.	Q	.	.	V	.

28.167	11953.0166	209.77	Q	.	.	.	V	.
28.250	11954.3213	189.50	Q	.	.	.	V	.
28.333	11955.4951	170.48	Q	.	.	.	V	.
28.417	11956.5713	156.24	Q	.	.	.	V	.
28.500	11957.5537	142.62	Q	.	.	.	V	.
28.583	11958.4424	129.09	Q	.	.	.	V	.
28.667	11959.2422	116.06	Q	.	.	.	V	.
28.750	11959.9766	106.69	Q	.	.	.	V	.
28.833	11960.6533	98.20	Q	.	.	.	V	.
28.917	11961.2715	89.77	Q	.	.	.	V	.
29.000	11961.8320	81.40	Q	.	.	.	V	.
29.083	11962.3350	73.09	Q	.	.	.	V	.
29.167	11962.7812	64.84	Q	.	.	.	V	.
29.250	11963.1797	57.88	Q	.	.	.	V	.
29.333	11963.5605	55.25	Q	.	.	.	V	.
29.417	11963.9258	53.03	Q	.	.	.	V	.
29.500	11964.2754	50.82	Q	.	.	.	V	.
29.583	11964.6104	48.61	Q	.	.	.	V	.
29.667	11964.9297	46.43	Q	.	.	.	V	.
29.750	11965.2344	44.26	Q	.	.	.	V	.
29.833	11965.5244	42.12	Q	.	.	.	V	.
29.917	11965.7998	39.98	Q	.	.	.	V	.
30.000	11966.0605	37.86	Q	.	.	.	V	.
30.083	11966.3066	35.77	Q	.	.	.	V	.
30.167	11966.5391	33.68	Q	.	.	.	V	.
30.250	11966.7568	31.60	Q	.	.	.	V	.
30.333	11966.9600	29.56	Q	.	.	.	V	.
30.417	11967.1494	27.50	Q	.	.	.	V	.
30.500	11967.3252	25.49	Q	.	.	.	V	.
30.583	11967.4873	23.50	Q	.	.	.	V	.
30.667	11967.6357	21.51	Q	.	.	.	V	.
30.750	11967.7705	19.55	Q	.	.	.	V	.
30.833	11967.8916	17.59	Q	.	.	.	V	.
30.917	11967.9990	15.65	Q	.	.	.	V	.
31.000	11968.0938	13.71	Q	.	.	.	V	.
31.083	11968.1748	11.80	Q	.	.	.	V	.
31.167	11968.2432	9.89	Q	.	.	.	V	.
31.250	11968.2979	7.99	Q	.	.	.	V	.
31.333	11968.3398	6.11	Q	.	.	.	V	.
31.417	11968.3691	4.24	Q	.	.	.	V	.
31.500	11968.3857	2.38	Q	.	.	.	V	.
31.583	11968.3896	0.53	Q	.	.	.	V	.

-----

TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:

(Note: 100% of Peak Flow Rate estimate assumed to have an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
=====	=====
0%	1895.0
10%	1430.0
20%	1130.0
30%	615.0
40%	475.0
50%	395.0
60%	330.0
70%	275.0

80%  
90%

215.0  
135.0

=====

END OF FLOODSCx ROUTING ANALYSIS

\*\*\*\*\*

FLOOD ROUTING ANALYSIS  
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)  
(c) Copyright 1989-2013 Advanced Engineering Software (aes)  
Ver. 20.0 Release Date: 06/01/2013 License ID 1237

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*  
\* RMV PA-3 BODR 2022 - NODE 127 \*  
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*  
\* 25-YR EV JULY 2022 ROKAMOTO \*  
\*\*\*\*\*

FILE NAME: EV25127S.DAT  
TIME/DATE OF STUDY: 14:04 07/24/2022

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 127.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<

=====

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 52666.000 ACRES  
BASEFLOW = 0.000 CFS/SQUARE-MILE  
\*USER ENTERED "LAG" TIME = 2.333 HOURS  
VALLEY (DEVELOPED) S-GRAPH SELECTED  
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.291  
LOW LOSS FRACTION = 0.438  
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.41  
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.77  
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 1.07  
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 1.99  
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 2.95  
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 5.20

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:  
5-MINUTE FACTOR = 0.333  
30-MINUTE FACTOR = 0.385  
1-HOUR FACTOR = 0.425  
3-HOUR FACTOR = 0.775  
6-HOUR FACTOR = 0.899  
24-HOUR FACTOR = 0.941

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES  
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 3.572

===== UNIT HYDROGRAPH DETERMINATION =====

INTERVAL NUMBER	"S" GRAPH MEAN VALUES	UNIT HYDROGRAPH ORDINATES (CFS)
1	0.204	1300.041
2	0.612	2600.086
3	1.021	2600.079
4	1.429	2600.090
5	1.838	2606.957
6	2.373	3408.100
7	2.994	3956.646
8	3.616	3956.653
9	4.439	5246.949
10	5.582	7276.584
11	6.950	8711.998
12	8.582	10399.973
13	10.446	11869.129
14	12.236	11398.723
15	14.162	12270.211
16	16.578	15387.186
17	18.500	12240.745
18	20.526	12903.602
19	23.056	16119.081
20	25.373	14755.368
21	27.433	13118.387
22	29.975	16190.685
23	32.678	17216.016
24	35.671	19066.092
25	37.905	14231.659
26	41.236	21211.900
27	44.447	20455.682
28	47.928	22169.418
29	51.309	21535.779
30	53.884	16397.025
31	56.389	15956.693
32	59.388	19100.910
33	62.892	22321.564
34	65.582	17131.012
35	68.017	15507.224
36	70.597	16432.742
37	72.782	13922.093
38	75.043	14401.033
39	76.898	11810.737
40	78.485	10112.042
41	80.087	10199.122
42	81.747	10573.489
43	83.287	9812.559
44	84.716	9100.318
45	86.036	8408.147
46	87.161	7164.776
47	88.190	6552.736
48	89.039	5410.392

49	89.874	5318.112
50	90.645	4905.356
51	91.397	4789.605
52	92.131	4679.880
53	92.815	4352.552
54	93.495	4334.232
55	94.111	3919.775
56	94.571	2930.696
57	95.024	2888.905
58	95.478	2888.905
59	95.921	2821.019
60	96.238	2019.950
61	96.518	1784.901
62	96.798	1783.152
63	97.078	1784.901
64	97.359	1784.853
65	97.639	1783.152
66	97.914	1755.307
67	98.048	849.761
68	98.114	426.654
69	98.181	426.605
70	98.249	428.403
71	98.315	423.155
72	98.382	428.355
73	98.449	424.905
74	98.516	426.605
75	98.583	424.905
76	98.650	430.104
77	98.717	424.905
78	98.784	424.905
79	98.851	428.355
80	98.918	424.905
81	98.985	428.355
82	99.052	424.905
83	99.118	424.905
84	99.185	424.905
85	99.252	424.905
86	99.319	424.905
87	99.385	424.905
88	99.452	424.905
89	99.519	424.905
90	99.585	424.905
91	99.652	424.905
92	99.719	424.905
93	99.786	424.905
94	99.852	424.905
95	99.919	424.905
96	99.986	424.905
97	100.000	91.308

-----  
TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 9253.2988  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 12226.6318  
-----

=====

2 4 - 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 FIVE-MINUTE UNIT INTERVALS (CFS)  
(Note: Time indicated is at END of Each Unit Intervals)

TIME (HRS)	VOLUME (AF)	Q (CFS)	0.	3750.0	7500.0	11250.0	15000.0
0.083	0.0378	5.48	Q	.	.	.	.
0.167	0.1511	16.46	Q	.	.	.	.
0.250	0.3403	27.47	Q	.	.	.	.
0.333	0.6055	38.51	Q	.	.	.	.
0.417	0.9472	49.61	Q	.	.	.	.
0.500	1.3889	64.13	Q	.	.	.	.
0.583	1.9468	81.00	Q	.	.	.	.
0.667	2.6211	97.92	Q	.	.	.	.
0.750	3.4499	120.33	Q	.	.	.	.
0.833	4.4924	151.37	Q	.	.	.	.
0.917	5.7909	188.55	Q	.	.	.	.
1.000	7.3953	232.95	Q	.	.	.	.
1.083	9.3490	283.69	Q	.	.	.	.
1.167	11.6395	332.58	Q	.	.	.	.
1.250	14.2932	385.31	VQ	.	.	.	.
1.333	17.4015	451.33	VQ	.	.	.	.
1.417	20.8745	504.28	VQ	.	.	.	.
1.500	24.7327	560.21	VQ	.	.	.	.
1.583	29.0705	629.84	VQ	.	.	.	.
1.667	33.8497	693.95	VQ	.	.	.	.
1.750	39.0243	751.35	V Q	.	.	.	.
1.833	44.6847	821.89	V Q	.	.	.	.
1.917	50.8621	896.96	V Q	.	.	.	.
2.000	57.6119	980.08	V Q	.	.	.	.
2.083	64.7954	1043.04	V Q	.	.	.	.
2.167	72.6169	1135.69	V Q	.	.	.	.
2.250	81.0561	1225.36	V Q	.	.	.	.
2.333	90.1651	1322.63	V Q	.	.	.	.
2.417	99.9271	1417.44	V Q	.	.	.	.
2.500	110.1955	1490.97	V Q	.	.	.	.
2.583	120.9587	1562.81	V Q	.	.	.	.
2.667	132.3102	1648.23	V Q	.	.	.	.
2.750	144.3447	1747.41	V Q	.	.	.	.
2.833	156.9143	1825.10	V Q	.	.	.	.
2.917	169.9732	1896.15	V Q	.	.	.	.
3.000	183.5503	1971.40	V Q	.	.	.	.
3.083	197.5741	2036.25	V Q	.	.	.	.
3.167	212.0606	2103.43	V Q	.	.	.	.
3.250	226.9355	2159.84	V Q	.	.	.	.
3.333	242.1516	2209.37	V Q	.	.	.	.
3.417	257.7121	2259.38	V Q	.	.	.	.
3.500	273.6297	2311.24	V Q	.	.	.	.
3.583	289.8831	2360.00	V Q	.	.	.	.
3.667	306.4536	2406.04	.V Q	.	.	.	.
3.750	323.3217	2449.24	.V Q	.	.	.	.
3.833	340.4531	2487.47	.V Q	.	.	.	.
3.917	357.8304	2523.20	.V Q	.	.	.	.

4.000	375.4224	2554.35	.V	Q	.	.	.	.
4.083	393.2266	2585.17	.V	Q	.	.	.	.
4.167	411.2326	2614.48	.V	Q	.	.	.	.
4.250	429.4376	2643.36	.V	Q	.	.	.	.
4.333	447.8398	2672.00	.V	Q	.	.	.	.
4.417	466.4302	2699.32	.V	Q	.	.	.	.
4.500	485.2097	2726.79	.V	Q	.	.	.	.
4.583	504.1667	2752.56	.V	Q	.	.	.	.
4.667	523.2740	2774.38	.V	Q	.	.	.	.
4.750	542.5307	2796.07	.V	Q	.	.	.	.
4.833	561.9383	2817.98	.V	Q	.	.	.	.
4.917	581.4951	2839.64	.V	Q	.	.	.	.
5.000	601.1793	2858.15	.V	Q	.	.	.	.
5.083	620.9844	2875.70	.V	Q	.	.	.	.
5.167	640.9118	2893.46	.V	Q	.	.	.	.
5.250	660.9617	2911.25	.V	Q	.	.	.	.
5.333	681.1357	2929.26	.V	Q	.	.	.	.
5.417	701.4339	2947.30	.V	Q	.	.	.	.
5.500	721.8571	2965.45	.V	Q	.	.	.	.
5.583	742.3792	2979.81	.V	Q	.	.	.	.
5.667	762.9895	2992.61	.V	Q	.	.	.	.
5.750	783.6880	3005.43	.V	Q	.	.	.	.
5.833	804.4765	3018.48	.V	Q	.	.	.	.
5.917	825.3548	3031.53	.V	Q	.	.	.	.
6.000	846.3246	3044.83	.V	Q	.	.	.	.
6.083	867.3862	3058.13	.V	Q	.	.	.	.
6.167	888.5410	3071.68	.V	Q	.	.	.	.
6.250	909.7892	3085.25	.V	Q	.	.	.	.
6.333	931.1328	3099.08	.V	Q	.	.	.	.
6.417	952.5716	3112.91	.V	Q	.	.	.	.
6.500	974.1074	3127.00	.V	Q	.	.	.	.
6.583	995.7405	3141.13	.V	Q	.	.	.	.
6.667	1017.4727	3155.51	.V	Q	.	.	.	.
6.750	1039.3041	3169.92	.V	Q	.	.	.	.
6.833	1061.2366	3184.60	.V	Q	.	.	.	.
6.917	1083.2704	3199.30	.V	Q	.	.	.	.
7.000	1105.4072	3214.28	.V	Q	.	.	.	.
7.083	1127.6476	3229.30	.V	Q	.	.	.	.
7.167	1149.9933	3244.60	.V	Q	.	.	.	.
7.250	1172.4447	3259.94	.V	Q	.	.	.	.
7.333	1195.0038	3275.57	.V	Q	.	.	.	.
7.417	1217.6708	3291.25	.V	Q	.	.	.	.
7.500	1240.4479	3307.23	.V	Q	.	.	.	.
7.583	1263.3353	3323.25	.V	Q	.	.	.	.
7.667	1286.3353	3339.60	.V	Q	.	.	.	.
7.750	1309.4481	3355.99	.V	Q	.	.	.	.
7.833	1332.6761	3372.70	.V	Q	.	.	.	.
7.917	1356.0197	3389.47	.V	Q	.	.	.	.
8.000	1379.4810	3406.58	.V	Q	.	.	.	.
8.083	1403.0508	3422.33	.V	Q	.	.	.	.
8.167	1426.7288	3438.05	.V	Q	.	.	.	.
8.250	1450.5154	3453.83	.V	Q	.	.	.	.
8.333	1474.4132	3469.96	.V	Q	.	.	.	.
8.417	1498.4225	3486.15	.V	Q	.	.	.	.
8.500	1522.5459	3502.71	.V	Q	.	.	.	.
8.583	1546.7838	3519.34	.V	Q	.	.	.	.
8.667	1571.1389	3536.36	.V	Q	.	.	.	.
8.750	1595.6117	3553.45	.V	Q	.	.	.	.

8.833	1620.2050	3570.94	.	V	Q.	.	.	.
8.917	1644.9192	3588.50	.	V	Q.	.	.	.
9.000	1669.7572	3606.49	.	V	Q.	.	.	.
9.083	1694.7197	3624.55	.	V	Q.	.	.	.
9.167	1719.8097	3643.06	.	V	Q.	.	.	.
9.250	1745.0277	3661.65	.	V	Q.	.	.	.
9.333	1770.3768	3680.70	.	V	Q.	.	.	.
9.417	1795.8578	3699.84	.	V	Q.	.	.	.
9.500	1821.4739	3719.46	.	V	Q.	.	.	.
9.583	1847.2258	3739.19	.	V	Q.	.	.	.
9.667	1873.1171	3759.40	.	V	Q	.	.	.
9.750	1899.1483	3779.74	.	V	Q	.	.	.
9.833	1925.3232	3800.59	.	V	Q	.	.	.
9.917	1951.6426	3821.57	.	V	Q	.	.	.
10.000	1978.1101	3843.08	.	V	Q	.	.	.
10.083	2004.7268	3864.74	.	V	Q	.	.	.
10.167	2031.4965	3886.95	.	V	Q	.	.	.
10.250	2058.4202	3909.32	.	V	Q	.	.	.
10.333	2085.5020	3932.28	.	V	Q	.	.	.
10.417	2112.7429	3955.40	.	V	Q	.	.	.
10.500	2140.1475	3979.14	.	V	Q	.	.	.
10.583	2167.7168	4003.06	.	V	Q	.	.	.
10.667	2195.4553	4027.63	.	V	Q	.	.	.
10.750	2223.3645	4052.40	.	V	Q	.	.	.
10.833	2251.4487	4077.85	.	V	Q	.	.	.
10.917	2279.7097	4103.50	.	V	Q	.	.	.
11.000	2308.1523	4129.88	.	V	.Q	.	.	.
11.083	2336.7783	4156.49	.	V	.Q	.	.	.
11.167	2365.5928	4183.86	.	V	.Q	.	.	.
11.250	2394.5974	4211.49	.	V	.Q	.	.	.
11.333	2423.7979	4239.91	.	V	.Q	.	.	.
11.417	2453.1960	4268.62	.	V	.Q	.	.	.
11.500	2482.7979	4298.17	.	V	.Q	.	.	.
11.583	2512.6052	4328.02	.	V	.Q	.	.	.
11.667	2542.6243	4358.77	.	V	.Q	.	.	.
11.750	2572.8574	4389.86	.	V	.Q	.	.	.
11.833	2603.3113	4421.90	.	V	.Q	.	.	.
11.917	2633.9883	4454.30	.	V	.Q	.	.	.
12.000	2664.8955	4487.73	.	V	.Q	.	.	.
12.083	2696.0989	4530.73	.	V	.Q	.	.	.
12.167	2727.6689	4583.96	.	V	.Q	.	.	.
12.250	2759.6079	4637.54	.	V	.Q	.	.	.
12.333	2791.9233	4692.19	.	V	.Q	.	.	.
12.417	2824.6179	4747.27	.	V	.Q	.	.	.
12.500	2857.7388	4809.14	.	V	.Q	.	.	.
12.583	2891.3152	4875.30	.	V	.Q	.	.	.
12.667	2925.3552	4942.62	.	V	.Q	.	.	.
12.750	2959.9246	5019.48	.	V	.Q	.	.	.
12.833	2995.1304	5111.89	.	V	.Q	.	.	.
12.917	3031.0449	5214.80	.	V	.Q	.	.	.
13.000	3067.7585	5330.81	.	V	Q	.	.	.
13.083	3105.3447	5457.50	.	V	Q	.	.	.
13.167	3143.7883	5582.03	.	V	Q	.	.	.
13.250	3183.1340	5712.99	.	V	Q	.	.	.
13.333	3223.5417	5867.21	.	V	Q	.	.	.
13.417	3264.8601	5999.42	.	V	Q	.	.	.
13.500	3307.1301	6137.59	.	V	Q	.	.	.
13.583	3350.5105	6298.83	.	V	Q	.	.	.

13.667	3394.9438	6451.73	.	.V	Q	.	.	.
13.750	3440.3528	6593.37	.	.V	Q	.	.	.
13.833	3486.8967	6758.18	.	.V	Q	.	.	.
13.917	3534.6282	6930.61	.	.V	Q	.	.	.
14.000	3583.6472	7117.55	.	.V	Q	.	.	.
14.083	3633.7910	7280.87	.	.V	Q	.	.	.
14.167	3685.4780	7504.97	.	.V	Q	.	.	.
14.250	3738.6694	7723.41	.	.V	Q	.	.	.
14.333	3793.4529	7954.55	.	.V	.Q	.	.	.
14.417	3849.7957	8180.96	.	.V	.Q	.	.	.
14.500	3907.4951	8377.97	.	.V	.Q	.	.	.
14.583	3966.5574	8575.84	.	.V	.Q	.	.	.
14.667	4027.1387	8796.40	.	.V	Q	.	.	.
14.750	4089.4609	9049.19	.	.V	.Q	.	.	.
14.833	4153.3818	9281.28	.	.V	.Q	.	.	.
14.917	4218.8882	9511.55	.	.V	.Q	.	.	.
15.000	4286.1113	9760.79	.	.V	.Q	.	.	.
15.083	4354.9902	10001.20	.	.V	.Q	.	.	.
15.167	4425.5103	10239.50	.	.V	.Q	.	.	.
15.250	4497.5703	10463.10	.	.V	.Q	.	.	.
15.333	4571.2422	10697.12	.	.V	.Q	.	.	.
15.417	4646.2378	10889.36	.	.V	.Q	.	.	.
15.500	4722.5063	11074.17	.	.V	.Q	.	.	.
15.583	4800.1797	11278.17	.	.V	.Q	.	.	.
15.667	4879.1460	11465.91	.	.V	.Q	.	.	.
15.750	4959.2354	11628.97	.	.V	.Q	.	.	.
15.833	5040.4663	11794.70	.	.V	.Q	.	.	.
15.917	5122.8643	11964.15	.	.V	.Q	.	.	.
16.000	5206.5703	12154.13	.	.V	.Q	.	.	.
16.083	5292.0356	12409.56	.	.V	.Q	.	.	.
16.167	5379.3433	12677.06	.	.V	.Q	.	.	.
16.250	5467.4673	12795.58	.	.V	.Q	.	.	.
16.333	5556.3828	12910.54	.	.V	.Q	.	.	.
16.417	5646.0425	13018.57	.	.V	.Q	.	.	.
16.500	5736.7490	13170.59	.	.V	.Q	.	.	.
16.583	5828.2466	13285.48	.	.V	.Q	.	.	.
16.667	5920.1816	13348.97	.	.V	.Q	.	.	.
16.750	6013.8579	13601.82	.	.V	.Q	.	.	.
16.833	6109.4858	13885.21	.	.V	.Q	.	.	.
16.917	6206.3809	14069.16	.	.V	.Q	.	.	.
17.000	6304.6675	14271.19	.	.V	.Q	.	.	.
17.083	6404.1758	14448.62	.	.V	.Q	.	.	.
17.167	6503.5967	14435.89	.	.V	.Q	.	.	.
17.250	6603.5781	14517.32	.	.V	.Q	.	.	.
17.333	6705.2061	14756.36	.	.V	.Q	.	.	.
17.417	6805.2266	14523.01	.	.V	.Q	.	.	.
17.500	6905.5972	14573.81	.	.V	.Q	.	.	.
17.583	7007.6211	14813.91	.	.V	.Q	.	.	.
17.667	7108.4824	14645.04	.	.V	.Q	.	.	.
17.750	7208.2197	14481.89	.	.V	.Q	.	.	.
17.833	7309.8760	14760.48	.	.V	.Q	.	.	.
17.917	7412.1416	14848.94	.	.V	.Q	.	.	.
18.000	7514.9512	14927.95	.	.V	.Q	.	.	.
18.083	7613.9976	14381.55	.	.V	.Q	.	.	.
18.167	7717.3027	14999.88	.	.V	.Q	.	.	.
18.250	7819.9141	14899.18	.	.V	.Q	.	.	.
18.333	7922.9824	14965.54	.	.V	.Q	.	.	.
18.417	8024.5684	14750.29	.	.V	.Q	.	.	.

18.500	8122.6318	14238.85	.	.	.	V	.	Q	.
18.583	8220.4814	14207.70	.	.	.	V	.	Q	.
18.667	8320.4316	14512.80	.	.	.	V	.	Q	.
18.750	8422.0889	14760.59	.	.	.	V	.	Q	.
18.833	8519.5137	14146.11	.	.	.	V	.	Q	.
18.917	8615.0254	13868.33	.	.	.	V	.	Q	.
19.000	8710.1104	13806.35	.	.	.	V	.	Q	.
19.083	8803.0635	13496.85	.	.	.	V	.	Q	.
19.167	8895.0596	13357.87	.	.	.	V	.	Q	.
19.250	8984.0537	12921.99	.	.	.	V	.	Q	.
19.333	9070.6738	12577.17	.	.	.	V	.	Q	.
19.417	9156.0625	12398.37	.	.	.	V	.	Q	.
19.500	9240.6328	12279.54	.	.	.	V	.	Q	.
19.583	9323.2793	12000.26	.	.	.	V	.	Q	.
19.667	9403.7588	11685.60	.	.	.	VQ	.	.	.
19.750	9481.9229	11349.37	.	.	.	VQ	.	.	.
19.833	9557.5527	10981.48	.	.	.	Q.V	.	.	.
19.917	9631.0576	10672.85	.	.	.	Q	.V	.	.
20.000	9702.0195	10303.62	.	.	.	Q	.V	.	.
20.083	9771.4277	10078.06	.	.	.	Q	.V	.	.
20.167	9838.6182	9756.02	.	.	.	Q	.V	.	.
20.250	9903.9209	9482.02	.	.	.	Q	.V	.	.
20.333	9967.3301	9206.96	.	.	.	Q	.V	.	.
20.417	10028.7256	8914.62	.	.	.	Q	.V	.	.
20.500	10088.4414	8670.77	.	.	.	Q	.V	.	.
20.583	10146.2373	8391.96	.	.	.	Q	.V	.	.
20.667	10201.6914	8051.98	.	.	.	.Q	.V	.	.
20.750	10255.2871	7782.09	.	.	.	Q	.V	.	.
20.833	10307.3379	7557.76	.	.	.	Q	.V	.	.
20.917	10357.9238	7345.13	.	.	.	Q	.V	.	.
21.000	10406.5879	7065.99	.	.	.	Q	.V	.	.
21.083	10453.8408	6861.10	.	.	.	Q	.V	.	.
21.167	10499.8330	6678.03	.	.	.	Q	.V	.	.
21.250	10544.7275	6518.66	.	.	.	Q	.V	.	.
21.333	10588.5654	6365.30	.	.	.	Q	.V	.	.
21.417	10631.3057	6205.94	.	.	.	Q	.V	.	.
21.500	10672.8584	6033.41	.	.	.	Q	.V	.	.
21.583	10712.7461	5791.73	.	.	.	Q	.V	.	.
21.667	10751.4150	5614.73	.	.	.	Q	.V	.	.
21.750	10789.1904	5485.02	.	.	.	Q	.V	.	.
21.833	10826.1543	5367.17	.	.	.	Q	.V	.	.
21.917	10862.2910	5247.02	.	.	.	Q	.V	.	.
22.000	10897.6826	5138.92	.	.	.	Q	.V	.	.
22.083	10932.3301	5030.79	.	.	.	Q	.V	.	.
22.167	10966.2588	4926.50	.	.	.	Q	.V	.	.
22.250	10999.4805	4823.74	.	.	.	Q	.V	.	.
22.333	11032.0107	4723.43	.	.	.	Q	.V	.	.
22.417	11063.8672	4625.49	.	.	.	Q	.V	.	.
22.500	11095.0615	4529.41	.	.	.	Q	.V	.	.
22.583	11125.6729	4444.73	.	.	.	.Q	.V	.	.
22.667	11155.7783	4371.30	.	.	.	.Q	.V	.	.
22.750	11185.3955	4300.37	.	.	.	.Q	.V	.	.
22.833	11214.5303	4230.32	.	.	.	.Q	.V	.	.
22.917	11243.1982	4162.64	.	.	.	.Q	.V	.	.
23.000	11271.4482	4101.91	.	.	.	Q	.V	.	.
23.083	11299.3018	4044.29	.	.	.	Q	.V	.	.
23.167	11326.7666	3987.92	.	.	.	Q	.V	.	.
23.250	11353.8525	3932.83	.	.	.	Q	.V	.	.

23.333	11380.5664	3878.86	.	Q	.	.	V	.
23.417	11406.9404	3829.56	.	Q	.	.	V	.
23.500	11432.9893	3782.24	.	Q	.	.	V	.
23.583	11458.7588	3741.79	.	Q.	.	.	V	.
23.667	11484.2744	3704.93	.	Q.	.	.	V	.
23.750	11509.5488	3669.88	.	Q.	.	.	V	.
23.833	11534.5869	3635.47	.	Q.	.	.	V	.
23.917	11559.3789	3599.87	.	Q.	.	.	V	.
24.000	11583.9111	3562.13	.	Q.	.	.	V	.
24.083	11607.9492	3490.32	.	Q.	.	.	V	.
24.167	11631.6279	3438.16	.	Q.	.	.	V	.
24.250	11655.0137	3395.54	.	Q.	.	.	V	.
24.333	11678.1152	3354.34	.	Q	.	.	V	.
24.417	11700.9170	3310.86	.	Q	.	.	V	.
24.500	11723.3936	3263.60	.	Q	.	.	V	.
24.583	11745.5312	3214.45	.	Q	.	.	V	.
24.667	11767.3340	3165.78	.	Q	.	.	V	.
24.750	11788.7676	3112.10	.	Q	.	.	V	.
24.833	11809.7754	3050.39	.	Q	.	.	V	.
24.917	11830.3203	2983.15	.	Q	.	.	V	.
25.000	11850.3574	2909.36	.	Q	.	.	V	.
25.083	11869.8662	2832.64	.	Q	.	.	V	.
25.167	11888.8701	2759.41	.	Q	.	.	V	.
25.250	11907.3506	2683.31	.	Q	.	.	V	.
25.333	11925.2217	2594.88	.	Q	.	.	V	.
25.417	11942.5811	2520.54	.	Q	.	.	V	.
25.500	11959.4141	2444.14	.	Q	.	.	V	.
25.583	11975.6328	2354.93	.	Q	.	.	V	.
25.667	11991.2822	2272.25	.	Q	.	.	V	.
25.750	12006.4141	2197.18	.	Q	.	.	V	.
25.833	12020.9443	2109.86	.	Q	.	.	V	.
25.917	12034.8486	2018.94	.	Q	.	.	V	.
26.000	12048.0781	1920.96	.	Q	.	.	V	.
26.083	12060.7949	1846.46	.	Q	.	.	V	.
26.167	12072.8047	1743.87	.	Q	.	.	V	.
26.250	12084.1357	1645.25	.	Q	.	.	V	.
26.333	12094.7432	1540.19	.	Q	.	.	V	.
26.417	12104.6504	1438.58	.	Q	.	.	V	.
26.500	12114.0127	1359.35	.	Q	.	.	V	.
26.583	12122.8457	1282.59	.	Q	.	.	V	.
26.667	12131.0635	1193.18	.	Q	.	.	V	.
26.750	12138.5762	1090.86	.	Q	.	.	V	.
26.833	12145.5400	1011.10	.	Q	.	.	V	.
26.917	12152.0049	938.75	.	Q	.	.	V	.
27.000	12157.9482	863.03	.	Q	.	.	V	.
27.083	12163.4473	798.40	.	Q	.	.	V	.
27.167	12168.4902	732.22	.	Q	.	.	V	.
27.250	12173.1553	677.41	.	Q	.	.	V	.
27.333	12177.4951	630.13	.	Q	.	.	V	.
27.417	12181.5088	582.83	.	Q	.	.	V	.
27.500	12185.1885	534.29	.	Q	.	.	V	.
27.583	12188.5586	489.29	.	Q	.	.	V	.
27.667	12191.6416	447.59	.	Q	.	.	V	.
27.750	12194.4590	409.10	.	Q	.	.	V	.
27.833	12197.0488	376.11	.	Q	.	.	V	.
27.917	12199.4316	345.93	.	Q	.	.	V	.
28.000	12201.6406	320.76	.	Q	.	.	V	.
28.083	12203.6807	296.16	.	Q	.	.	V	.

28.167	12205.5645	273.48	Q	.	.	.	V	.
28.250	12207.2959	251.43	Q	.	.	.	V	.
28.333	12208.8799	230.01	Q	.	.	.	V	.
28.417	12210.3271	210.11	Q	.	.	.	V	.
28.500	12211.6387	190.42	Q	.	.	.	V	.
28.583	12212.8271	172.61	Q	.	.	.	V	.
28.667	12213.9229	159.08	Q	.	.	.	V	.
28.750	12214.9268	145.83	Q	.	.	.	V	.
28.833	12215.8408	132.66	Q	.	.	.	V	.
28.917	12216.6660	119.87	Q	.	.	.	V	.
29.000	12217.4277	110.54	Q	.	.	.	V	.
29.083	12218.1318	102.27	Q	.	.	.	V	.
29.167	12218.7793	94.06	Q	.	.	.	V	.
29.250	12219.3711	85.90	Q	.	.	.	V	.
29.333	12219.9072	77.79	Q	.	.	.	V	.
29.417	12220.3877	69.75	Q	.	.	.	V	.
29.500	12220.8135	61.88	Q	.	.	.	V	.
29.583	12221.2119	57.87	Q	.	.	.	V	.
29.667	12221.5957	55.67	Q	.	.	.	V	.
29.750	12221.9639	53.49	Q	.	.	.	V	.
29.833	12222.3174	51.32	Q	.	.	.	V	.
29.917	12222.6562	49.19	Q	.	.	.	V	.
30.000	12222.9805	47.06	Q	.	.	.	V	.
30.083	12223.2900	44.95	Q	.	.	.	V	.
30.167	12223.5850	42.86	Q	.	.	.	V	.
30.250	12223.8662	40.79	Q	.	.	.	V	.
30.333	12224.1328	38.71	Q	.	.	.	V	.
30.417	12224.3857	36.67	Q	.	.	.	V	.
30.500	12224.6240	34.64	Q	.	.	.	V	.
30.583	12224.8486	32.61	Q	.	.	.	V	.
30.667	12225.0596	30.62	Q	.	.	.	V	.
30.750	12225.2568	28.62	Q	.	.	.	V	.
30.833	12225.4404	26.65	Q	.	.	.	V	.
30.917	12225.6104	24.69	Q	.	.	.	V	.
31.000	12225.7666	22.75	Q	.	.	.	V	.
31.083	12225.9102	20.82	Q	.	.	.	V	.
31.167	12226.0400	18.90	Q	.	.	.	V	.
31.250	12226.1572	17.00	Q	.	.	.	V	.
31.333	12226.2617	15.11	Q	.	.	.	V	.
31.417	12226.3525	13.23	Q	.	.	.	V	.
31.500	12226.4307	11.36	Q	.	.	.	V	.
31.583	12226.4961	9.50	Q	.	.	.	V	.
31.667	12226.5488	7.66	Q	.	.	.	V	.
31.750	12226.5889	5.82	Q	.	.	.	V	.
31.833	12226.6162	4.00	Q	.	.	.	V	.
31.917	12226.6309	2.19	Q	.	.	.	V	.
32.000	12226.6338	0.39	Q	.	.	.	V	.

-----  
TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
(Note: 100% of Peak Flow Rate estimate assumed to have  
an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
=====	=====
0%	1920.0
10%	1430.0
20%	1150.0

30%	630.0
40%	485.0
50%	405.0
60%	340.0
70%	280.0
80%	220.0
90%	140.0

=====

END OF FLOODSCx ROUTING ANALYSIS



\*\*\*\*\*

FLOOD ROUTING ANALYSIS  
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)  
(c) Copyright 1989-2010 Advanced Engineering Software (aes)  
Ver. 17.0 Release Date: 07/01/2010 License ID 1527

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*  
\* RMV PA-3 ROMP AMENDMENT 2022 - NODE 137 \*  
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*  
\* 25-YR EV AUG 2023 ROKAMOTO \*  
\*\*\*\*\*

FILE NAME: EV25137S.DAT  
TIME/DATE OF STUDY: 00:39 08/11/2023

\*\* INPUT SUMMARY \*\*

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 137.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS) ADDED TO STREAM #1<<<<<

=====

WATERSHED AREA = 67799.000 ACRES; BASEFLOW = 0.000 CFS/SQUARE-MILE  
\*USER ENTERED "LAG" TIME = 2.709 HOURS  
VALLEY (DEVELOPED) S-GRAPH SELECTED  
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.283; LOW LOSS FRACTION = 0.449  
SPECIFIED PEAK RAINFALL DEPTHS (INCH):  
5-MINUTE = 0.40; 30-MINUTE = 0.76; 1-HOUR = 1.04  
3-HOUR = 1.90; 6-HOUR = 2.79; 24-HOUR = 4.86  
\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:  
5-MINUTE = 0.291; 30-MINUTE = 0.350; 1-HOUR = 0.394  
3-HOUR = 0.738; 6-HOUR = 0.886; 24-HOUR = 0.933

=====

-----+  
-----+  
| \* AES FLOODSCx PROGRAM RESULTS SUMMARY \*  
|  
| INPUT FILENAME: [EV25137S.DAT ]  
Page: 1 of |  
-----+-----+-----+  
-----+-----+-----+  
| UPSTREAM DOWNSTREAM | UPSTREAM DOWNSTREAM |  
TIME (2) TO | MAX. STORAGE |  
| NODE # NODE # | HYDROLOGIC/HYDRAULIC PROCESS | PEAK (CFS) PEAK (CFS) |  
PEAK (HR) | MODELED (AF) | FOOTNOTES |  
-----+-----+-----+  
-----+-----+-----+  
| 10100.00 137.00 | Subarea (UH) Added to Stream #1 | 0.0 16751.8 |  
18.500 | | |  
-----+-----+-----+  
-----+-----+-----+  
| Notes: 1 = BASIN MODEL VOLUME EXCEEDED; 2 = TIME IS AT END OF 5-MINUTE UNIT  
INTERVAL |  
| 3 = RUNOFF ESTIMATES DO NOT EXTEND PAST 2 DAYS AFTER THE PEAK DAY OF  
THE DESIGN STORM |  
-----+-----+-----+  
-----+-----+-----+

END OF FLOODSCx ROUTING ANALYSIS

\*\*\*\*\*

FLOOD ROUTING ANALYSIS  
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)  
(c) Copyright 1989-2010 Advanced Engineering Software (aes)  
Ver. 17.0 Release Date: 07/01/2010 License ID 1527

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*  
\* RMV PA-3 ROMP AMENDMENT 2022 - NODE 138 \*  
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*  
\* 25-YR EV AUG 2023 ROKAMOTO \*  
\*\*\*\*\*

FILE NAME: EV25138S.DAT  
TIME/DATE OF STUDY: 00:39 08/11/2023

\*\* INPUT SUMMARY \*\*

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 138.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS) ADDED TO STREAM #1<<<<

=====

WATERSHED AREA = 69102.703 ACRES; BASEFLOW = 0.000 CFS/SQUARE-MILE  
\*USER ENTERED "LAG" TIME = 2.802 HOURS  
VALLEY (DEVELOPED) S-GRAPH SELECTED  
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.282; LOW LOSS FRACTION = 0.450  
SPECIFIED PEAK RAINFALL DEPTHS (INCH):  
5-MINUTE = 0.40; 30-MINUTE = 0.76; 1-HOUR = 1.04  
3-HOUR = 1.90; 6-HOUR = 2.78; 24-HOUR = 4.84  
\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:  
5-MINUTE = 0.287; 30-MINUTE = 0.348; 1-HOUR = 0.392  
3-HOUR = 0.734; 6-HOUR = 0.885; 24-HOUR = 0.932

=====

-----+  
-----+  
| \* AES FLOODSCx PROGRAM RESULTS SUMMARY \*  
|  
| INPUT FILENAME: [EV25138S.DAT ]  
Page: 1 of |  
-----+-----+-----+  
-----+-----+-----+  
| UPSTREAM DOWNSTREAM | UPSTREAM DOWNSTREAM |  
TIME (2) TO | MAX. STORAGE |  
| NODE # NODE # | HYDROLOGIC/HYDRAULIC PROCESS | PEAK (CFS) PEAK (CFS) |  
PEAK (HR) | MODELED (AF) | FOOTNOTES |  
-----+-----+-----+  
-----+-----+-----+  
| 10100.00 138.00 | Subarea (UH) Added to Stream #1 | 0.0 16840.7 |  
17.917 | | |  
-----+-----+-----+  
-----+-----+-----+  
| Notes: 1 = BASIN MODEL VOLUME EXCEEDED; 2 = TIME IS AT END OF 5-MINUTE UNIT  
INTERVAL |  
| 3 = RUNOFF ESTIMATES DO NOT EXTEND PAST 2 DAYS AFTER THE PEAK DAY OF  
THE DESIGN STORM |  
-----+-----+-----+  
-----+-----+-----+

END OF FLOODSCx ROUTING ANALYSIS

\*\*\*\*\*

FLOOD ROUTING ANALYSIS  
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)  
(c) Copyright 1989-2010 Advanced Engineering Software (aes)  
Ver. 17.0 Release Date: 07/01/2010 License ID 1527

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*  
\* RMV PA-3 ROMP AMENDMENT 2022 - NODE 139 \*  
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*  
\* 25-YR EV AUG 2023 ROKAMOTO \*  
\*\*\*\*\*

FILE NAME: EV25139S.DAT  
TIME/DATE OF STUDY: 00:38 08/11/2023

\*\* INPUT SUMMARY \*\*

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 139.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS) ADDED TO STREAM #1<<<<

=====

WATERSHED AREA = 69530.500 ACRES; BASEFLOW = 0.000 CFS/SQUARE-MILE  
\*USER ENTERED "LAG" TIME = 2.854 HOURS  
VALLEY (DEVELOPED) S-GRAPH SELECTED  
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.282; LOW LOSS FRACTION = 0.450  
SPECIFIED PEAK RAINFALL DEPTHS (INCH):  
5-MINUTE = 0.40; 30-MINUTE = 0.76; 1-HOUR = 1.04  
3-HOUR = 1.89; 6-HOUR = 2.77; 24-HOUR = 4.83  
\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:  
5-MINUTE = 0.286; 30-MINUTE = 0.348; 1-HOUR = 0.391  
3-HOUR = 0.733; 6-HOUR = 0.885; 24-HOUR = 0.932

=====

-----+  
-----+  
| \* AES FLOODSCx PROGRAM RESULTS SUMMARY \*  
|  
| INPUT FILENAME: [EV25139S.DAT ]  
Page: 1 of |  
-----+-----+  
-----+-----+  
| UPSTREAM DOWNSTREAM | UPSTREAM DOWNSTREAM |  
TIME (2) TO | MAX. STORAGE |  
| NODE # NODE # | HYDROLOGIC/HYDRAULIC PROCESS | PEAK (CFS) PEAK (CFS) |  
PEAK (HR) | MODELED (AF) | FOOTNOTES |  
-----+-----+  
-----+-----+  
| 10100.00 139.00 | Subarea (UH) Added to Stream #1 | 0.0 16831.6 |  
17.917 | | |  
-----+-----+  
-----+-----+  
| Notes: 1 = BASIN MODEL VOLUME EXCEEDED; 2 = TIME IS AT END OF 5-MINUTE UNIT  
INTERVAL |  
| 3 = RUNOFF ESTIMATES DO NOT EXTEND PAST 2 DAYS AFTER THE PEAK DAY OF  
THE DESIGN STORM |  
-----+-----+  
-----+-----+

END OF FLOODSCx ROUTING ANALYSIS

\*\*\*\*\*

FLOOD ROUTING ANALYSIS  
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)  
(c) Copyright 1989-2013 Advanced Engineering Software (aes)  
Ver. 20.0 Release Date: 06/01/2013 License ID 1264

Analysis prepared by:

Michael Baker International  
5 Hutton Centre Drive, Suite 500  
Santa Ana, CA 92707

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*  
\* RANCHO MISSION VIEJJO - SINGLE AREA UH \*  
\* ULTIMATE CONDITION - REGIONAL NODE 119 \*  
\* 50-YR EV SEPTEMBER 2018 CCHIU \*  
\*\*\*\*\*

FILE NAME: EV50119S.DAT  
TIME/DATE OF STUDY: 07:36 10/02/2018

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 119.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<

=====

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 49495.699 ACRES  
BASEFLOW = 0.000 CFS/SQUARE-MILE  
\*USER ENTERED "LAG" TIME = 2.043 HOURS  
VALLEY (DEVELOPED) S-GRAPH SELECTED  
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.298  
LOW LOSS FRACTION = 0.399  
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.46  
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.87  
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 1.21  
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 2.28  
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 3.40  
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 5.99

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:  
5-MINUTE FACTOR = 0.345  
30-MINUTE FACTOR = 0.395  
1-HOUR FACTOR = 0.435  
3-HOUR FACTOR = 0.785  
6-HOUR FACTOR = 0.904  
24-HOUR FACTOR = 0.944

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES  
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 4.079

UNIT HYDROGRAPH DETERMINATION

INTERVAL NUMBER	"S" GRAPH MEAN VALUES	UNIT HYDROGRAPH ORDINATES (CFS)
1	0.233	1395.215
2	0.699	2790.427
3	1.165	2790.428
4	1.632	2790.430
5	2.159	3157.066
6	2.858	4184.957
7	3.568	4246.297
8	4.513	5660.116
9	5.841	7949.957
10	7.482	9823.601
11	9.504	12100.033
12	11.579	12422.426
13	13.678	12566.875
14	16.386	16208.730
15	18.611	13314.900
16	20.992	14255.629
17	23.920	17523.658
18	26.361	14614.003
19	28.979	15669.029
20	31.997	18064.832
21	35.430	20548.764
22	38.098	15970.705
23	41.854	22486.143
24	45.545	22095.789
25	49.687	24788.598
26	52.917	19335.461
27	55.772	17091.027
28	59.079	19792.262
29	63.017	23575.660
30	66.033	18051.760
31	68.904	17189.010
32	71.611	16203.753
33	74.182	15385.142
34	76.492	13830.534
35	78.322	10952.858
36	80.152	10956.786
37	82.034	11260.620
38	83.762	10346.333
39	85.348	9491.460
40	86.729	8268.271
41	87.949	7302.423
42	88.947	5977.483
43	89.899	5695.844
44	90.776	5248.063
45	91.634	5138.367
46	92.446	4860.381
47	93.223	4651.858
48	93.968	4455.528

49	94.518	3294.722
50	95.036	3099.808
51	95.554	3099.808
52	96.032	2860.458
53	96.364	1990.607
54	96.684	1916.030
55	97.004	1914.660
56	97.324	1914.614
57	97.644	1916.075
58	97.945	1804.279
59	98.068	730.882
60	98.144	460.021
61	98.221	455.728
62	98.297	458.605
63	98.374	461.436
64	98.450	455.728
65	98.527	458.605
66	98.604	458.605
67	98.680	455.728
68	98.756	458.559
69	98.833	458.605
70	98.910	458.605
71	98.986	455.728
72	99.062	458.605
73	99.138	455.728
74	99.215	455.728
75	99.291	455.728
76	99.367	455.728
77	99.443	455.728
78	99.519	455.728
79	99.595	455.728
80	99.671	455.728
81	99.748	455.728
82	99.824	455.728
83	99.900	455.728
84	99.976	455.728
85	100.000	143.902

-----  
TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 9142.8164  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 14162.9131  
-----

=====  
2 4 - 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 FIVE-MINUTE UNIT INTERVALS (CFS)  
(Note: Time indicated is at END of Each Unit Intervals)

TIME (HRS)	VOLUME (AF)	Q (CFS)	0.	4475.0	8950.0	13425.0	17900.0
0.083	0.0499	7.25	Q	.	.	.	.
0.167	0.1999	21.77	Q	.	.	.	.
0.250	0.4501	36.33	Q	.	.	.	.
0.333	0.8008	50.93	Q	.	.	.	.
0.417	1.2656	67.48	Q	.	.	.	.
0.500	1.8814	89.42	Q	.	.	.	.
0.583	2.6510	111.75	Q	.	.	.	.
0.667	3.6254	141.49	Q	.	.	.	.
0.750	4.8872	183.21	Q	.	.	.	.
0.833	6.5042	234.79	Q	.	.	.	.
0.917	8.5589	298.35	Q	.	.	.	.
1.000	11.0642	363.77	Q	.	.	.	.
1.083	14.0265	430.13	Q	.	.	.	.
1.167	17.5777	515.63	VQ	.	.	.	.
1.250	21.6158	586.33	VQ	.	.	.	.
1.333	26.1761	662.16	VQ	.	.	.	.
1.417	31.3770	755.17	VQ	.	.	.	.
1.500	37.1165	833.37	VQ	.	.	.	.
1.583	43.4338	917.28	V Q	.	.	.	.
1.667	50.4167	1013.91	V Q	.	.	.	.
1.750	58.1559	1123.73	V Q	.	.	.	.
1.833	66.4899	1210.09	V Q	.	.	.	.
1.917	75.6539	1330.62	V Q	.	.	.	.
2.000	85.6363	1449.43	V Q	.	.	.	.
2.083	96.5362	1582.67	V Q	.	.	.	.
2.167	108.1609	1687.91	V Q	.	.	.	.
2.250	120.4332	1781.93	V Q	.	.	.	.
2.333	133.4510	1890.19	V Q	.	.	.	.
2.417	147.3528	2018.55	V Q	.	.	.	.
2.500	161.9431	2118.50	V Q	.	.	.	.
2.583	177.1940	2214.43	V Q	.	.	.	.
2.667	193.0717	2305.43	V Q	.	.	.	.
2.750	209.5498	2392.62	V Q	.	.	.	.
2.833	226.5738	2471.90	V Q	.	.	.	.
2.917	244.0437	2536.63	V Q	.	.	.	.
3.000	261.9603	2601.49	V Q	.	.	.	.
3.083	280.3370	2668.30	V Q	.	.	.	.
3.167	299.1419	2730.47	V Q	.	.	.	.
3.250	318.3469	2788.57	V Q	.	.	.	.
3.333	337.9089	2840.40	V Q	.	.	.	.
3.417	357.7956	2887.55	.V Q	.	.	.	.
3.500	377.9601	2927.88	.V Q	.	.	.	.
3.583	398.3944	2967.06	.V Q	.	.	.	.
3.667	419.0828	3003.95	.V Q	.	.	.	.
3.750	440.0235	3040.58	.V Q	.	.	.	.
3.833	461.2067	3075.80	.V Q	.	.	.	.
3.917	482.6270	3110.24	.V Q	.	.	.	.

4.000	504.2777	3143.68	.V	Q	.	.	.	.
4.083	526.1193	3171.40	.V	Q	.	.	.	.
4.167	548.1449	3198.11	.V	Q	.	.	.	.
4.250	570.3564	3225.12	.V	Q	.	.	.	.
4.333	592.7455	3250.89	.V	Q	.	.	.	.
4.417	615.2829	3272.43	.V	Q	.	.	.	.
4.500	637.9660	3293.58	.V	Q	.	.	.	.
4.583	660.7966	3315.01	.V	Q	.	.	.	.
4.667	683.7748	3336.43	.V	Q	.	.	.	.
4.750	706.9026	3358.15	.V	Q	.	.	.	.
4.833	730.1759	3379.28	.V	Q	.	.	.	.
4.917	753.5583	3395.13	.V	Q	.	.	.	.
5.000	777.0402	3409.56	.V	Q	.	.	.	.
5.083	800.6231	3424.24	.V	Q	.	.	.	.
5.167	824.3071	3438.92	.V	Q	.	.	.	.
5.250	848.0943	3453.90	.V	Q	.	.	.	.
5.333	871.9843	3468.83	.V	Q	.	.	.	.
5.417	895.9792	3484.06	.V	Q	.	.	.	.
5.500	920.0789	3499.28	.V	Q	.	.	.	.
5.583	944.2854	3514.78	.V	Q	.	.	.	.
5.667	968.5987	3530.29	.V	Q	.	.	.	.
5.750	993.0209	3546.10	.V	Q	.	.	.	.
5.833	1017.5518	3561.89	.V	Q	.	.	.	.
5.917	1042.1937	3578.00	.V	Q	.	.	.	.
6.000	1066.9464	3594.10	.V	Q	.	.	.	.
6.083	1091.8121	3610.51	.V	Q	.	.	.	.
6.167	1116.7909	3626.91	.V	Q	.	.	.	.
6.250	1141.8849	3643.65	.V	Q	.	.	.	.
6.333	1167.0941	3660.38	.V	Q	.	.	.	.
6.417	1192.4209	3677.46	.V	Q	.	.	.	.
6.500	1217.8652	3694.52	.V	Q	.	.	.	.
6.583	1243.4296	3711.94	.V	Q	.	.	.	.
6.667	1269.1139	3729.37	.V	Q	.	.	.	.
6.750	1294.9207	3747.15	.V	Q	.	.	.	.
6.833	1320.8500	3764.93	.V	Q	.	.	.	.
6.917	1346.9043	3783.10	.V	Q	.	.	.	.
7.000	1373.0837	3801.26	.V	Q	.	.	.	.
7.083	1399.3798	3818.19	.V	Q	.	.	.	.
7.167	1425.7872	3834.37	.V	Q	.	.	.	.
7.250	1452.3090	3850.95	.V	Q	.	.	.	.
7.333	1478.9448	3867.53	.V	Q	.	.	.	.
7.417	1505.6976	3884.52	.V	Q	.	.	.	.
7.500	1532.5675	3901.50	.V	Q	.	.	.	.
7.583	1559.5573	3918.92	.V	Q	.	.	.	.
7.667	1586.6670	3936.33	.V	Q	.	.	.	.
7.750	1613.8997	3954.18	.V	Q	.	.	.	.
7.833	1641.2554	3972.05	.V	Q	.	.	.	.
7.917	1668.7372	3990.36	.V	Q	.	.	.	.
8.000	1696.3452	4008.69	.V	Q	.	.	.	.
8.083	1724.0828	4027.49	.V	Q	.	.	.	.
8.167	1751.9498	4046.30	.V	Q	.	.	.	.
8.250	1779.9498	4065.61	.V	Q	.	.	.	.
8.333	1808.0830	4084.93	.V	Q	.	.	.	.
8.417	1836.3527	4104.76	.V	Q	.	.	.	.
8.500	1864.7590	4124.61	.V	Q	.	.	.	.
8.583	1893.3058	4144.99	.V	Q	.	.	.	.
8.667	1921.9930	4165.40	.V	Q	.	.	.	.
8.750	1950.8247	4186.35	.V	Q	.	.	.	.

8.833	1979.8009	4207.34	.	V	Q	.	.	.
8.917	2008.9255	4228.89	.	V	Q	.	.	.
9.000	2038.1989	4250.49	.	V	Q	.	.	.
9.083	2067.6250	4272.69	.	V	Q	.	.	.
9.167	2097.2043	4294.92	.	V	Q	.	.	.
9.250	2126.9412	4317.78	.	V	Q	.	.	.
9.333	2156.8357	4340.69	.	V	Q	.	.	.
9.417	2186.8926	4364.24	.	V	Q	.	.	.
9.500	2217.1121	4387.86	.	V	Q	.	.	.
9.583	2247.4988	4412.14	.	V	Q	.	.	.
9.667	2278.0532	4436.50	.	V	Q	.	.	.
9.750	2308.7803	4461.56	.	V	Q	.	.	.
9.833	2339.6804	4486.71	.	V	Q	.	.	.
9.917	2370.7588	4512.58	.	V	Q	.	.	.
10.000	2402.0159	4538.55	.	V	Q	.	.	.
10.083	2433.4573	4565.28	.	V	Q	.	.	.
10.167	2465.0835	4592.12	.	V	Q	.	.	.
10.250	2496.8999	4619.76	.	V	Q	.	.	.
10.333	2528.9077	4647.52	.	V	Q	.	.	.
10.417	2561.1123	4676.12	.	V	Q	.	.	.
10.500	2593.5149	4704.86	.	V	Q	.	.	.
10.583	2626.1216	4734.48	.	V	Q	.	.	.
10.667	2658.9331	4764.25	.	V	Q	.	.	.
10.750	2691.9561	4794.95	.	V	Q	.	.	.
10.833	2725.1917	4825.82	.	V	Q	.	.	.
10.917	2758.6467	4857.66	.	V	Q	.	.	.
11.000	2792.3223	4889.70	.	V	Q	.	.	.
11.083	2826.2256	4922.76	.	V	Q	.	.	.
11.167	2860.3582	4956.04	.	V	Q	.	.	.
11.250	2894.7273	4990.40	.	V	Q	.	.	.
11.333	2929.3347	5025.01	.	V	Q	.	.	.
11.417	2964.1885	5060.76	.	V	Q	.	.	.
11.500	2999.2903	5096.78	.	V	Q	.	.	.
11.583	3034.6484	5134.01	.	V	Q	.	.	.
11.667	3070.2651	5171.55	.	V	Q	.	.	.
11.750	3106.1492	5210.37	.	V	Q	.	.	.
11.833	3142.3030	5249.54	.	V	Q	.	.	.
11.917	3178.7358	5290.07	.	V	Q	.	.	.
12.000	3215.4507	5330.99	.	V	Q	.	.	.
12.083	3252.5403	5385.41	.	V	Q	.	.	.
12.167	3290.0906	5452.30	.	V	Q	.	.	.
12.250	3328.1113	5520.60	.	V	Q	.	.	.
12.333	3366.6050	5589.29	.	V	Q	.	.	.
12.417	3405.6040	5662.65	.	V	Q	.	.	.
12.500	3445.1724	5745.32	.	V	Q	.	.	.
12.583	3485.3245	5830.09	.	V	Q	.	.	.
12.667	3526.1475	5927.49	.	V	Q	.	.	.
12.750	3567.7888	6046.32	.	V	Q	.	.	.
12.833	3610.3623	6181.67	.	V	Q	.	.	.
12.917	3654.0144	6338.27	.	V	Q	.	.	.
13.000	3698.7656	6497.87	.	V	Q	.	.	.
13.083	3744.6353	6660.26	.	V	Q	.	.	.
13.167	3791.8416	6854.37	.	V	Q	.	.	.
13.250	3840.2231	7025.02	.	V	Q	.	.	.
13.333	3889.8372	7203.94	.	V	Q	.	.	.
13.417	3940.8904	7412.93	.	.V	Q	.	.	.
13.500	3993.2100	7596.80	.	.V	Q	.	.	.
13.583	4046.8716	7791.66	.	.V	Q	.	.	.

13.667	4102.0190	8007.43	.	.V	Q	.	.	.
13.750	4158.8135	8246.56	.	.V	Q	.	.	.
13.833	4216.9829	8446.19	.	.V	Q	.	.	.
13.917	4276.9287	8704.16	.	.V	Q	.	.	.
14.000	4338.6294	8958.97	.	.V	Q	.	.	.
14.083	4402.3525	9252.61	.	.V	Q	.	.	.
14.167	4467.8672	9512.71	.	.V	Q	.	.	.
14.250	4535.0459	9754.34	.	.V	Q	.	.	.
14.333	4604.0464	10018.89	.	.V	Q	.	.	.
14.417	4675.1265	10320.83	.	.V	Q	.	.	.
14.500	4748.0215	10584.37	.	.V	Q	.	.	.
14.583	4822.6895	10841.76	.	.V	Q	.	.	.
14.667	4899.1602	11103.55	.	.V	Q	.	.	.
14.750	4977.5435	11381.24	.	.V	Q	.	.	.
14.833	5057.8579	11661.67	.	.V	Q	.	.	.
14.917	5140.0791	11938.55	.	.V	Q	.	.	.
15.000	5224.2036	12214.87	.	.V	Q	.	.	.
15.083	5310.2437	12492.99	.	.V	Q	.	.	.
15.167	5398.3613	12794.71	.	.V	Q	.	.	.
15.250	5488.2866	13057.15	.	.V	Q	.	.	.
15.333	5579.9702	13312.48	.	.V	Q	.	.	.
15.417	5673.4370	13571.39	.	.V	Q	.	.	.
15.500	5768.2456	13766.20	.	.V	Q	.	.	.
15.583	5864.4531	13969.33	.	.V	Q	.	.	.
15.667	5962.1782	14189.67	.	.V	Q	.	.	.
15.750	6061.4956	14420.86	.	.V	Q	.	.	.
15.833	6161.9155	14580.96	.	.V	Q	.	.	.
15.917	6263.9277	14812.18	.	.V	Q	.	.	.
16.000	6367.4819	15036.09	.	.V	Q	.	.	.
16.083	6473.4951	15393.09	.	.V	Q	.	.	.
16.167	6581.2461	15645.46	.	.V	Q	.	.	.
16.250	6689.3198	15692.32	.	.V	Q	.	.	.
16.333	6797.8887	15764.17	.	.V	Q	.	.	.
16.417	6907.5063	15916.49	.	.V	Q	.	.	.
16.500	7018.0527	16051.34	.	.V	Q	.	.	.
16.583	7129.1167	16126.50	.	.V	Q	.	.	.
16.667	7241.7490	16354.24	.	.V	Q	.	.	.
16.750	7356.2866	16630.87	.	.V	Q	.	.	.
16.833	7472.5342	16879.12	.	.V	Q	.	.	.
16.917	7590.3887	17112.49	.	.V	Q	.	.	.
17.000	7708.2729	17116.83	.	.V	Q	.	.	.
17.083	7825.8955	17078.81	.	.V	Q	.	.	.
17.167	7946.0884	17451.99	.	.V	Q	.	.	.
17.250	8063.7075	17078.28	.	.V	Q	.	.	.
17.333	8181.7036	17133.04	.	.V	Q	.	.	.
17.417	8301.1191	17339.19	.	.V	Q	.	.	.
17.500	8418.4795	17040.76	.	.V	Q	.	.	.
17.583	8536.7998	17180.07	.	.V	Q	.	.	.
17.667	8656.5605	17389.20	.	.V	Q	.	.	.
17.750	8777.3701	17541.61	.	.V	Q	.	.	.
17.833	8894.8252	17054.46	.	.V	Q	.	.	.
17.917	9017.1104	17755.83	.	.V	Q	.	.	.
18.000	9138.8008	17669.43	.	.V	Q	.	.	.
18.083	9261.7334	17849.79	.	.V	Q	.	.	.
18.167	9379.5078	17100.83	.	.V	Q	.	.	.
18.250	9496.0850	16927.05	.	.V	Q	.	.	.
18.333	9614.8838	17249.52	.	.V	Q	.	.	.
18.417	9736.0010	17586.28	.	.V	Q	.	.	.

18.500	9852.3965	16900.58	.	.	.	.	V	Q
18.583	9967.5244	16716.59	.	.	.	.	V	Q
18.667	10081.1748	16502.10	.	.	.	.	V	Q
18.750	10193.4600	16303.78	.	.	.	.	V	Q
18.833	10303.6494	15999.51	.	.	.	.	V	Q
18.917	10410.2598	15479.77	.	.	.	.	V	Q
19.000	10515.4307	15270.79	.	.	.	.	V	Q
19.083	10618.9736	15034.40	.	.	.	.	V	Q
19.167	10719.9648	14663.99	.	.	.	.	V	Q
19.250	10818.4707	14303.05	.	.	.	.	V	Q
19.333	10913.9209	13859.31	.	.	.	.	V	Q
19.417	11006.1416	13390.44	.	.	.	.	V	Q
19.500	11095.3809	12957.50	.	.	.	.	V	Q
19.583	11182.3525	12628.25	.	.	.	.	V	Q
19.667	11266.7705	12257.44	.	.	.	.	V	Q
19.750	11348.8086	11911.96	.	.	.	.	V	Q
19.833	11428.5742	11581.96	.	.	.	.	V	Q
19.917	11505.8281	11217.29	.	.	.	.	V	Q
20.000	11580.4912	10841.12	.	.	.	.	V	Q
20.083	11651.7188	10342.28	.	.	.	.	V	Q
20.167	11720.6260	10005.36	.	.	.	.	V	Q
20.250	11787.5693	9720.20	.	.	.	.	V	Q
20.333	11852.2676	9394.13	.	.	.	.	V	Q
20.417	11914.0342	8968.47	.	.	.	.	V	Q
20.500	11973.8896	8690.99	.	.	.	.	V	Q
20.583	12031.9912	8436.37	.	.	.	.	V	Q
20.667	12088.4189	8193.28	.	.	.	.	V	Q
20.750	12143.1025	7940.06	.	.	.	.	V	Q
20.833	12195.9922	7679.58	.	.	.	.	V	Q
20.917	12246.6035	7348.73	.	.	.	.	V	Q
21.000	12295.6064	7115.25	.	.	.	.	V	Q
21.083	12343.2568	6918.88	.	.	.	.	V	Q
21.167	12389.6406	6734.91	.	.	.	.	V	Q
21.250	12434.7383	6548.18	.	.	.	.	V	Q
21.333	12478.6172	6371.19	.	.	.	.	V	Q
21.417	12521.4072	6213.13	.	.	.	.	V	Q
21.500	12563.2012	6068.54	.	.	.	.	V	Q
21.583	12604.0264	5927.85	.	.	.	.	V	Q
21.667	12643.9238	5793.11	.	.	.	.	V	Q
21.750	12682.9082	5660.55	.	.	.	.	V	Q
21.833	12721.0137	5532.94	.	.	.	.	V	Q
21.917	12758.3350	5419.09	.	.	.	.	V	Q
22.000	12794.9219	5312.42	.	.	.	.	V	Q
22.083	12830.8545	5217.46	.	.	.	.	V	Q
22.167	12866.1621	5126.65	.	.	.	.	V	Q
22.250	12900.8584	5037.84	.	.	.	.	V	Q
22.333	12934.9707	4953.13	.	.	.	.	V	Q
22.417	12968.5918	4881.75	.	.	.	.	V	Q
22.500	13001.7490	4814.38	.	.	.	.	V	Q
22.583	13034.4492	4748.08	.	.	.	.	V	Q
22.667	13066.6992	4682.74	.	.	.	.	V	Q
22.750	13098.5166	4619.85	.	.	.	.	V	Q
22.833	13129.9160	4559.20	.	.	.	.	V	Q
22.917	13160.9541	4506.67	.	.	.	.	V	Q
23.000	13191.6289	4453.99	.	.	.	.	V	Q
23.083	13221.7246	4369.96	.	.	.	.	V	Q
23.167	13251.3945	4308.03	.	.	.	.	V	Q
23.250	13280.7568	4263.46	.	.	.	.	V	Q

23.333	13309.8262	4220.81	.	Q.	.	.	V	.
23.417	13338.5859	4175.89	.	Q.	.	.	V	.
23.500	13367.0293	4130.02	.	Q.	.	.	V	.
23.583	13395.1611	4084.79	.	Q.	.	.	V	.
23.667	13422.9854	4040.14	.	Q.	.	.	V	.
23.750	13450.5068	3996.11	.	Q	.	.	V	.
23.833	13477.7295	3952.67	.	Q	.	.	V	.
23.917	13504.6562	3909.83	.	Q	.	.	V	.
24.000	13531.2920	3867.54	.	Q	.	.	V	.
24.083	13557.6123	3821.72	.	Q	.	.	V	.
24.167	13583.5830	3770.90	.	Q	.	.	V	.
24.250	13609.2100	3720.98	.	Q	.	.	V	.
24.333	13634.4990	3671.91	.	Q	.	.	V	.
24.417	13659.4424	3621.75	.	Q	.	.	V	.
24.500	13684.0088	3567.06	.	Q	.	.	V	.
24.583	13708.2021	3512.83	.	Q	.	.	V	.
24.667	13731.9766	3452.05	.	Q	.	.	V	.
24.750	13755.2559	3380.16	.	Q	.	.	V	.
24.833	13777.9785	3299.36	.	Q	.	.	V	.
24.917	13800.0693	3207.61	.	Q	.	.	V	.
25.000	13821.5234	3115.08	.	Q	.	.	V	.
25.083	13842.3594	3025.38	.	Q	.	.	V	.
25.167	13862.4619	2918.91	.	Q	.	.	V	.
25.250	13881.9414	2828.42	.	Q	.	.	V	.
25.333	13900.7695	2733.91	.	Q	.	.	V	.
25.417	13918.8369	2623.32	.	Q	.	.	V	.
25.500	13936.2529	2528.75	.	Q	.	.	V	.
25.583	13952.9854	2429.54	.	Q	.	.	V	.
25.667	13968.9551	2318.74	.	Q	.	.	V	.
25.750	13984.0791	2195.94	.	Q	.	.	V	.
25.833	13998.5273	2097.83	.	Q	.	.	V	.
25.917	14012.0723	1966.71	.	Q	.	.	V	.
26.000	14024.7344	1838.57	.	Q	.	.	V	.
26.083	14036.4248	1697.40	.	Q	.	.	V	.
26.167	14047.3438	1585.50	.	Q	.	.	V	.
26.250	14057.5781	1486.04	.	Q	.	.	V	.
26.333	14067.0361	1373.30	.	Q	.	.	V	.
26.417	14075.5879	1241.72	.	Q	.	.	V	.
26.500	14083.4365	1139.68	.	Q	.	.	V	.
26.583	14090.6182	1042.82	.	Q	.	.	V	.
26.667	14097.1729	951.73	.	Q	.	.	V	.
26.750	14103.1338	865.51	.	Q	.	.	V	.
26.833	14108.5605	787.93	.	Q	.	.	V	.
26.917	14113.5596	725.81	.	Q	.	.	V	.
27.000	14118.1328	664.10	.	Q	.	.	V	.
27.083	14122.2734	601.23	.	Q	.	.	V	.
27.167	14126.0166	543.53	.	Q	.	.	V	.
27.250	14129.3955	490.64	.	Q	.	.	V	.
27.333	14132.4561	444.46	.	Q	.	.	V	.
27.417	14135.2354	403.60	.	Q	.	.	V	.
27.500	14137.7832	369.88	.	Q	.	.	V	.
27.583	14140.1104	337.86	.	Q	.	.	V	.
27.667	14142.2344	308.37	.	Q	.	.	V	.
27.750	14144.1602	279.66	.	Q	.	.	V	.
27.833	14145.8994	252.58	.	Q	.	.	V	.
27.917	14147.4609	226.76	.	Q	.	.	V	.
28.000	14148.8525	202.13	.	Q	.	.	V	.
28.083	14150.1172	183.68	.	Q	.	.	V	.

28.167	14151.2627	166.37	Q	.	.	.	V	.
28.250	14152.2900	149.18	Q	.	.	.	V	.
28.333	14153.2080	133.34	Q	.	.	.	V	.
28.417	14154.0488	122.12	Q	.	.	.	V	.
28.500	14154.8154	111.36	Q	.	.	.	V	.
28.583	14155.5088	100.68	Q	.	.	.	V	.
28.667	14156.1289	90.08	Q	.	.	.	V	.
28.750	14156.6768	79.53	Q	.	.	.	V	.
28.833	14157.1562	69.63	Q	.	.	.	V	.
28.917	14157.6064	65.37	Q	.	.	.	V	.
29.000	14158.0371	62.54	Q	.	.	.	V	.
29.083	14158.4482	59.76	Q	.	.	.	V	.
29.167	14158.8408	56.98	Q	.	.	.	V	.
29.250	14159.2139	54.21	Q	.	.	.	V	.
29.333	14159.5684	51.49	Q	.	.	.	V	.
29.417	14159.9043	48.77	Q	.	.	.	V	.
29.500	14160.2217	46.08	Q	.	.	.	V	.
29.583	14160.5205	43.42	Q	.	.	.	V	.
29.667	14160.8008	40.76	Q	.	.	.	V	.
29.750	14161.0635	38.12	Q	.	.	.	V	.
29.833	14161.3076	35.50	Q	.	.	.	V	.
29.917	14161.5342	32.91	Q	.	.	.	V	.
30.000	14161.7432	30.33	Q	.	.	.	V	.
30.083	14161.9346	27.78	Q	.	.	.	V	.
30.167	14162.1084	25.24	Q	.	.	.	V	.
30.250	14162.2646	22.72	Q	.	.	.	V	.
30.333	14162.4043	20.22	Q	.	.	.	V	.
30.417	14162.5264	17.73	Q	.	.	.	V	.
30.500	14162.6318	15.26	Q	.	.	.	V	.
30.583	14162.7197	12.81	Q	.	.	.	V	.
30.667	14162.7910	10.37	Q	.	.	.	V	.
30.750	14162.8457	7.94	Q	.	.	.	V	.
30.833	14162.8838	5.53	Q	.	.	.	V	.
30.917	14162.9053	3.13	Q	.	.	.	V	.
31.000	14162.9102	0.75	Q	.	.	.	V	.

-----  
TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
(Note: 100% of Peak Flow Rate estimate assumed to have  
an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
=====	=====
0%	1860.0
10%	1425.0
20%	1115.0
30%	595.0
40%	460.0
50%	390.0
60%	330.0
70%	270.0
80%	215.0
90%	135.0

-----  
END OF FLOODSCx ROUTING ANALYSIS



\*\*\*\*\*

FLOOD ROUTING ANALYSIS
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)
(c) Copyright 1989-2013 Advanced Engineering Software (aes)
Ver. 20.0 Release Date: 06/01/2013 License ID 1237

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*
\* RMV PA-3 BODR 2022 - NODE 126 \*
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*
\* 50-YR EV JULY 2022 ROKAMOTO \*

FILE NAME: EV50126S.DAT
TIME/DATE OF STUDY: 13:47 07/24/2022

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 126.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<

\*\*\*\*\*

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 50438.699 ACRES
BASEFLOW = 0.000 CFS/SQUARE-MILE
\*USER ENTERED "LAG" TIME = 2.130 HOURS
VALLEY (DEVELOPED) S-GRAPH SELECTED
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.297
LOW LOSS FRACTION = 0.401
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.46
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.87
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 1.21
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 2.27
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 3.38
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 5.95

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:
5-MINUTE FACTOR = 0.341
30-MINUTE FACTOR = 0.392
1-HOUR FACTOR = 0.432
3-HOUR FACTOR = 0.782
6-HOUR FACTOR = 0.902
24-HOUR FACTOR = 0.943

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 3.912

UNIT HYDROGRAPH DETERMINATION

Table with 3 columns: INTERVAL NUMBER, "S" GRAPH MEAN VALUES, UNIT HYDROGRAPH ORDINATES (CFS). Rows 1-48.

49	93.238	4544.931
50	93.955	4372.923
51	94.486	3238.587
52	94.983	3029.954
53	95.479	3030.000
54	95.957	2912.722
55	96.292	2046.357
56	96.599	1869.742
57	96.906	1872.813
58	97.213	1871.278
59	97.520	1872.813
60	97.827	1872.767
61	98.032	1250.078
62	98.105	449.146
63	98.179	449.192
64	98.252	446.121
65	98.325	447.656
66	98.399	446.121
67	98.472	446.121
68	98.545	447.610
69	98.619	449.192
70	98.692	444.585
71	98.765	450.682
72	98.838	444.631
73	98.912	450.682
74	98.985	444.585
75	99.058	447.656
76	99.131	444.585
77	99.204	444.585
78	99.277	444.585
79	99.350	444.585
80	99.423	444.585
81	99.496	444.585
82	99.569	444.585
83	99.642	444.585
84	99.714	444.585
85	99.787	444.585
86	99.860	444.585
87	99.933	444.585
88	100.000	408.145

-----  
TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 9302.4453  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 14288.8828  
-----

=====

2 4 - 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 FIVE-MINUTE UNIT INTERVALS (CFS)  
(Note: Time indicated is at END of Each Unit Intervals)

TIME (HRS)	VOLUME (AF)	Q (CFS)	0.	4475.0	8950.0	13425.0	17900.0
0.083	0.0483	7.02	Q	.	.	.	.
0.167	0.1934	21.06	Q	.	.	.	.
0.250	0.4354	35.15	Q	.	.	.	.
0.333	0.7747	49.27	Q	.	.	.	.
0.417	1.2187	64.46	Q	.	.	.	.
0.500	1.8053	85.17	Q	.	.	.	.
0.583	2.5405	106.76	Q	.	.	.	.
0.667	3.4463	131.52	Q	.	.	.	.
0.750	4.6147	169.66	Q	.	.	.	.
0.833	6.0989	215.51	Q	.	.	.	.
0.917	7.9720	271.97	Q	.	.	.	.
1.000	10.2895	336.51	Q	.	.	.	.
1.083	13.0370	398.93	Q	.	.	.	.
1.167	16.2890	472.18	VQ	.	.	.	.
1.250	20.0794	550.37	VQ	.	.	.	.
1.333	24.3345	617.84	VQ	.	.	.	.
1.417	29.1427	698.15	VQ	.	.	.	.
1.500	34.5608	786.72	VQ	.	.	.	.
1.583	40.4817	859.72	VQ	.	.	.	.
1.667	46.9960	945.87	V Q	.	.	.	.
1.750	54.1674	1041.28	V Q	.	.	.	.
1.833	62.0592	1145.89	V Q	.	.	.	.
1.917	70.5326	1230.33	V Q	.	.	.	.
2.000	79.8175	1348.17	V Q	.	.	.	.
2.083	89.8958	1463.37	V Q	.	.	.	.
2.167	100.8672	1593.05	V Q	.	.	.	.
2.250	112.5510	1696.49	V Q	.	.	.	.
2.333	124.8624	1787.62	V Q	.	.	.	.
2.417	137.8725	1889.06	V Q	.	.	.	.
2.500	151.7413	2013.75	V Q	.	.	.	.
2.583	166.3210	2116.97	V Q	.	.	.	.
2.667	181.5245	2207.55	V Q	.	.	.	.
2.750	197.3752	2301.52	V Q	.	.	.	.
2.833	213.7980	2384.59	V Q	.	.	.	.
2.917	230.7920	2467.54	V Q	.	.	.	.
3.000	248.2447	2534.12	V Q	.	.	.	.
3.083	266.1278	2596.63	V Q	.	.	.	.
3.167	284.4562	2661.28	V Q	.	.	.	.
3.250	303.2202	2724.53	V Q	.	.	.	.
3.333	322.3906	2783.54	V Q	.	.	.	.
3.417	341.9395	2838.51	V Q	.	.	.	.
3.500	361.8223	2886.97	.V Q	.	.	.	.
3.583	382.0114	2931.46	.V Q	.	.	.	.
3.667	402.4673	2970.19	.V Q	.	.	.	.
3.750	423.1849	3008.20	.V Q	.	.	.	.
3.833	444.1508	3044.24	.V Q	.	.	.	.
3.917	465.3633	3080.06	.V Q	.	.	.	.

4.000	486.8135	3114.58	.V	Q	.	.	.	.
4.083	508.4960	3148.30	.V	Q	.	.	.	.
4.167	530.4065	3181.40	.V	Q	.	.	.	.
4.250	552.5052	3208.73	.V	Q	.	.	.	.
4.333	574.7865	3235.25	.V	Q	.	.	.	.
4.417	597.2507	3261.80	.V	Q	.	.	.	.
4.500	619.8954	3288.02	.V	Q	.	.	.	.
4.583	642.6902	3309.81	.V	Q	.	.	.	.
4.667	665.6308	3330.97	.V	Q	.	.	.	.
4.750	688.7172	3352.15	.V	Q	.	.	.	.
4.833	711.9513	3373.59	.V	Q	.	.	.	.
4.917	735.3333	3395.06	.V	Q	.	.	.	.
5.000	758.8649	3416.80	.V	Q	.	.	.	.
5.083	782.5244	3435.36	.V	Q	.	.	.	.
5.167	806.2852	3450.07	.V	Q	.	.	.	.
5.250	830.1474	3464.78	.V	Q	.	.	.	.
5.333	854.1126	3479.75	.V	Q	.	.	.	.
5.417	878.1810	3494.73	.V	Q	.	.	.	.
5.500	902.3543	3509.97	.V	Q	.	.	.	.
5.583	926.6326	3525.21	.V	Q	.	.	.	.
5.667	951.0179	3540.74	.V	Q	.	.	.	.
5.750	975.5103	3556.29	.V	Q	.	.	.	.
5.833	1000.1116	3572.11	.V	Q	.	.	.	.
5.917	1024.8220	3587.96	.V	Q	.	.	.	.
6.000	1049.6434	3604.07	.V	Q	.	.	.	.
6.083	1074.5762	3620.23	.V	Q	.	.	.	.
6.167	1099.6221	3636.67	.V	Q	.	.	.	.
6.250	1124.7814	3653.13	.V	Q	.	.	.	.
6.333	1150.0560	3669.89	.V	Q	.	.	.	.
6.417	1175.4463	3686.66	.V	Q	.	.	.	.
6.500	1200.9543	3703.76	.V	Q	.	.	.	.
6.583	1226.5802	3720.88	.V	Q	.	.	.	.
6.667	1252.3263	3738.33	.V	Q	.	.	.	.
6.750	1278.1927	3755.80	.V	Q	.	.	.	.
6.833	1304.1819	3773.62	.V	Q	.	.	.	.
6.917	1330.2938	3791.46	.V	Q	.	.	.	.
7.000	1356.5311	3809.65	.V	Q	.	.	.	.
7.083	1382.8939	3827.87	.V	Q	.	.	.	.
7.167	1409.3848	3846.46	.V	Q	.	.	.	.
7.250	1436.0038	3865.08	.V	Q	.	.	.	.
7.333	1462.7523	3883.89	.V	Q	.	.	.	.
7.417	1489.6162	3900.63	.V	Q	.	.	.	.
7.500	1516.5980	3917.76	.V	Q	.	.	.	.
7.583	1543.6980	3934.92	.V	Q	.	.	.	.
7.667	1570.9189	3952.47	.V	Q	.	.	.	.
7.750	1598.2610	3970.06	.V	Q	.	.	.	.
7.833	1625.7271	3988.07	.V	Q	.	.	.	.
7.917	1653.3174	4006.11	.V	Q	.	.	.	.
8.000	1681.0349	4024.58	.V	Q	.	.	.	.
8.083	1708.8799	4043.09	.V	Q	.	.	.	.
8.167	1736.8555	4062.05	.V	Q	.	.	.	.
8.250	1764.9619	4081.05	.V	Q	.	.	.	.
8.333	1793.2024	4100.52	.V	Q	.	.	.	.
8.417	1821.5773	4120.03	.V	Q	.	.	.	.
8.500	1850.0900	4140.04	.V	Q	.	.	.	.
8.583	1878.7407	4160.09	.V	Q	.	.	.	.
8.667	1907.5331	4180.64	.V	Q	.	.	.	.
8.750	1936.4674	4201.26	.V	Q	.	.	.	.

8.833	1965.5472	4222.40	.	V	Q	.	.	.
8.917	1994.7731	4243.60	.	V	Q	.	.	.
9.000	2024.1487	4265.34	.	V	Q	.	.	.
9.083	2053.6746	4287.16	.	V	Q	.	.	.
9.167	2083.3547	4309.55	.	V	Q	.	.	.
9.250	2113.1895	4332.01	.	V	Q	.	.	.
9.333	2143.1831	4355.07	.	V	Q	.	.	.
9.417	2173.3362	4378.22	.	V	Q	.	.	.
9.500	2203.6528	4401.98	.	V	Q	.	.	.
9.583	2234.1338	4425.84	.	V	Q	.	.	.
9.667	2264.7834	4450.34	.	V	Q	.	.	.
9.750	2295.6028	4474.96	.	V	Q	.	.	.
9.833	2326.5962	4500.24	.	V	Q	.	.	.
9.917	2357.7646	4525.65	.	V	Q	.	.	.
10.000	2389.1128	4551.76	.	V	Q	.	.	.
10.083	2420.6416	4578.00	.	V	Q	.	.	.
10.167	2452.3564	4604.98	.	V	Q	.	.	.
10.250	2484.2581	4632.10	.	V	Q	.	.	.
10.333	2516.3518	4660.00	.	V	Q	.	.	.
10.417	2548.6387	4688.06	.	V	Q	.	.	.
10.500	2581.1245	4716.93	.	V	Q	.	.	.
10.583	2613.8103	4745.97	.	V	Q	.	.	.
10.667	2646.7019	4775.87	.	V	Q	.	.	.
10.750	2679.8008	4805.97	.	V	Q	.	.	.
10.833	2713.1133	4836.96	.	V	Q	.	.	.
10.917	2746.6406	4868.17	.	V	Q	.	.	.
11.000	2780.3894	4900.32	.	V	Q	.	.	.
11.083	2814.3613	4932.71	.	V	.Q	.	.	.
11.167	2848.5632	4966.10	.	V	.Q	.	.	.
11.250	2882.9968	4999.75	.	V	.Q	.	.	.
11.333	2917.6694	5034.45	.	V	.Q	.	.	.
11.417	2952.5830	5069.46	.	V	.Q	.	.	.
11.500	2987.7454	5105.57	.	V	.Q	.	.	.
11.583	3023.1587	5142.01	.	V	.Q	.	.	.
11.667	3058.8311	5179.62	.	V	.Q	.	.	.
11.750	3094.7649	5217.60	.	V	.Q	.	.	.
11.833	3130.9690	5256.82	.	V	.Q	.	.	.
11.917	3167.4460	5296.46	.	V	.Q	.	.	.
12.000	3204.2051	5337.42	.	V	.Q	.	.	.
12.083	3241.3303	5390.58	.	V	.Q	.	.	.
12.167	3278.9121	5456.88	.	V	.Q	.	.	.
12.250	3316.9531	5523.57	.	V	.Q	.	.	.
12.333	3355.4631	5591.64	.	V	.Q	.	.	.
12.417	3394.4565	5661.85	.	V	.Q	.	.	.
12.500	3434.0071	5742.73	.	V	.Q	.	.	.
12.583	3474.1272	5825.44	.	V	.Q	.	.	.
12.667	3514.8630	5914.85	.	V	.Q	.	.	.
12.750	3556.3716	6027.03	.	V	.Q	.	.	.
12.833	3598.7510	6153.49	.	V	.Q	.	.	.
12.917	3642.1245	6297.85	.	V	.Q	.	.	.
13.000	3686.5940	6456.97	.	V	.Q	.	.	.
13.083	3732.1343	6612.46	.	V	.Q	.	.	.
13.167	3778.8787	6787.29	.	V	.Q	.	.	.
13.250	3826.8833	6970.29	.	V	.Q	.	.	.
13.333	3876.0322	7136.44	.	V	.Q	.	.	.
13.417	3926.4731	7324.02	.	V	.Q	.	.	.
13.500	3978.3103	7526.75	.	.V	.Q	.	.	.
13.583	4031.3618	7703.07	.	.V	.Q	.	.	.

13.667	4085.7893	7902.86	.	.V	Q	.	.	.
13.750	4141.6987	8118.05	.	.V	Q	.	.	.
13.833	4199.2051	8349.92	.	.V	Q	.	.	.
13.917	4258.0737	8547.70	.	.V	Q	.	.	.
14.000	4318.6997	8802.88	.	.V	Q	.	.	.
14.083	4381.1426	9066.68	.	.V	Q	.	.	.
14.167	4445.6650	9368.66	.	.V	Q	.	.	.
14.250	4511.9561	9625.45	.	.V	.Q	.	.	.
14.333	4579.8745	9861.73	.	.V	.Q	.	.	.
14.417	4649.5479	10116.56	.	.V	.Q	.	.	.
14.500	4721.3174	10420.94	.	.V	.Q	.	.	.
14.583	4794.9370	10689.56	.	.V	.Q	.	.	.
14.667	4870.2979	10942.37	.	.V	.Q	.	.	.
14.750	4947.6040	11224.82	.	.V	.Q	.	.	.
14.833	5026.8198	11502.15	.	.V	.Q	.	.	.
14.917	5108.0610	11796.19	.	.V	.Q	.	.	.
15.000	5191.2256	12075.46	.	.V	.Q	.	.	.
15.083	5276.2070	12339.29	.	.V	.Q	.	.	.
15.167	5363.1489	12623.95	.	.V	.Q	.	.	.
15.250	5452.0630	12910.31	.	.V	.Q	.	.	.
15.333	5542.7285	13164.66	.	.V	.Q	.	.	.
15.417	5635.1084	13413.59	.	.V	.Q	.	.	.
15.500	5729.0938	13646.68	.	.V	.Q	.	.	.
15.583	5824.4102	13839.95	.	.V	.Q	.	.	.
15.667	5921.1587	14047.89	.	.V	.Q	.	.	.
15.750	6019.3657	14259.69	.	.V	.Q	.	.	.
15.833	6118.9800	14464.02	.	.V	.Q	.	.	.
15.917	6219.7607	14633.37	.	.V	.Q	.	.	.
16.000	6322.1943	14873.38	.	.V	.Q	.	.	.
16.083	6426.9785	15214.66	.	.V	.Q	.	.	.
16.167	6533.9800	15536.58	.	.V	.Q	.	.	.
16.250	6641.5698	15622.04	.	.V	.Q	.	.	.
16.333	6749.4575	15665.28	.	.V	.Q	.	.	.
16.417	6858.0645	15769.70	.	.V	.Q	.	.	.
16.500	6968.2129	15993.55	.	.V	.Q	.	.	.
16.583	7078.9009	16071.88	.	.V	.Q	.	.	.
16.667	7190.6196	16221.58	.	.V	.Q	.	.	.
16.750	7304.7261	16568.27	.	.V	.Q	.	.	.
16.833	7420.1309	16756.76	.	.V	.Q	.	.	.
16.917	7537.4565	17035.69	.	.V	.Q	.	.	.
17.000	7655.8799	17195.08	.	.V	.Q	.	.	.
17.083	7773.8301	17126.39	.	.V	.Q	.	.	.
17.167	7892.8389	17280.06	.	.V	.Q	.	.	.
17.250	8012.5562	17382.94	.	.V	.Q	.	.	.
17.333	8130.4653	17120.42	.	.V	.Q	.	.	.
17.417	8249.7686	17322.86	.	.V	.Q	.	.	.
17.500	8369.3623	17365.06	.	.V	.Q	.	.	.
17.583	8486.8906	17065.08	.	.V	.Q	.	.	.
17.667	8606.3398	17344.01	.	.V	.Q	.	.	.
17.750	8726.7529	17483.96	.	.V	.Q	.	.	.
17.833	8847.5996	17546.95	.	.V	.Q	.	.	.
17.917	8965.3340	17095.09	.	.V	.Q	.	.	.
18.000	9087.8320	17786.78	.	.V	.Q	.	.	.
18.083	9209.5264	17669.99	.	.V	.Q	.	.	.
18.167	9332.3643	17836.13	.	.V	.Q	.	.	.
18.250	9450.2324	17114.46	.	.V	.Q	.	.	.
18.333	9566.6807	16908.28	.	.V	.Q	.	.	.
18.417	9684.7617	17145.31	.	.V	.Q	.	.	.

18.500	9805.7549	17568.26	.	.	.	.	V	.	Q.
18.583	9922.9883	17022.33	.	.	.	.	V	.	Q.
18.667	10037.6250	16645.22	.	.	.	.	V	.	Q.
18.750	10151.7471	16570.46	.	.	.	.	V	.	Q.
18.833	10263.4863	16224.57	.	.	.	.	V	.	Q.
18.917	10374.1982	16075.34	.	.	.	.	V	.	Q.
19.000	10480.9990	15507.53	.	.	.	.	V	.	Q.
19.083	10585.9170	15234.14	.	.	.	.	V	.	Q.
19.167	10689.2188	14999.49	.	.	.	.	V	.	Q.
19.250	10790.6309	14724.97	.	.	.	.	V	Q	.
19.333	10889.7129	14386.67	.	.	.	.	V	Q	.
19.417	10986.0752	13991.79	.	.	.	.	V	Q	.
19.500	11078.9434	13484.46	.	.	.	.	V	Q	.
19.583	11169.2197	13108.15	.	.	.	.	V	Q	.
19.667	11256.6289	12691.77	.	.	.	.	V	Q	.
19.750	11341.7197	12355.23	.	.	.	.	V	Q	.
19.833	11424.2168	11978.62	.	.	.	.	V	Q	.
19.917	11504.6689	11681.60	.	.	.	.	V	Q	.
20.000	11582.6123	11317.41	.	.	.	.	V	Q	.
20.083	11658.1562	10969.02	.	.	.	.	V	Q	.
20.167	11730.9971	10576.55	.	.	.	.	V	Q	.
20.250	11800.8115	10137.00	.	.	.	.	V	Q	.
20.333	11868.4951	9827.61	.	.	.	.	V	Q	.
20.417	11934.1309	9530.30	.	.	.	.	V	Q	.
20.500	11997.4746	9197.58	.	.	.	.	V	Q	.
20.583	12058.2207	8820.34	.	.	.	.	V	Q	.
20.667	12117.1172	8551.83	.	.	.	.	V	Q	.
20.750	12174.2900	8301.50	.	.	.	.	V	Q	.
20.833	12229.9189	8077.37	.	.	.	.	V	Q	.
20.917	12283.9121	7839.87	.	.	.	.	V	Q	.
21.000	12336.3955	7620.52	.	.	.	.	V	Q	.
21.083	12386.9580	7341.67	.	.	.	.	V	Q	.
21.167	12435.5293	7052.50	.	.	.	.	V	Q	.
21.250	12482.8252	6867.35	.	.	.	.	V	Q	.
21.333	12528.9297	6694.38	.	.	.	.	V	Q	.
21.417	12573.8428	6521.31	.	.	.	.	V	Q	.
21.500	12617.5928	6352.51	.	.	.	.	V	Q	.
21.583	12660.2930	6200.01	.	.	.	.	V	Q	.
21.667	12702.0352	6060.97	.	.	.	.	V	Q	.
21.750	12742.8389	5924.75	.	.	.	.	V	Q	.
21.833	12782.7373	5793.18	.	.	.	.	V	Q	.
21.917	12821.7500	5664.62	.	.	.	.	V	Q	.
22.000	12859.8955	5538.77	.	.	.	.	V	Q	.
22.083	12897.2451	5423.17	.	.	.	.	V	Q	.
22.167	12933.8652	5317.30	.	.	.	.	V	Q	.
22.250	12969.8467	5224.47	.	.	.	.	V	Q	.
22.333	13005.2100	5134.80	.	.	.	.	V	Q	.
22.417	13039.9727	5047.58	.	.	.	.	V	Q	.
22.500	13074.1543	4963.15	.	.	.	.	V	Q	.
22.583	13107.8193	4888.10	.	.	.	.	V	Q	.
22.667	13140.9922	4816.71	.	.	.	.	V	Q	.
22.750	13173.7207	4752.14	.	.	.	.	V	Q	.
22.833	13206.0127	4688.77	.	.	.	.	V	Q	.
22.917	13237.8730	4626.08	.	.	.	.	V	Q	.
23.000	13269.3086	4564.50	.	.	.	.	V	Q	.
23.083	13300.3760	4510.92	.	.	.	.	V	Q	.
23.167	13331.1230	4464.51	.	.	.	.	V	Q	.
23.250	13361.5371	4416.11	.	.	.	.	V	Q	.

23.333	13391.5771	4361.77	.	Q.	.	.	V	.
23.417	13420.9990	4272.10	.	Q.	.	.	V	.
23.500	13450.1260	4229.23	.	Q.	.	.	V	.
23.583	13478.9648	4187.35	.	Q.	.	.	V	.
23.667	13507.5264	4147.10	.	Q.	.	.	V	.
23.750	13535.7842	4102.97	.	Q.	.	.	V	.
23.833	13563.7412	4059.43	.	Q.	.	.	V	.
23.917	13591.4023	4016.38	.	Q	.	.	V	.
24.000	13618.7705	3973.93	.	Q	.	.	V	.
24.083	13645.8018	3924.97	.	Q	.	.	V	.
24.167	13672.4521	3869.63	.	Q	.	.	V	.
24.250	13698.7256	3814.88	.	Q	.	.	V	.
24.333	13724.6289	3761.09	.	Q	.	.	V	.
24.417	13750.1865	3710.93	.	Q	.	.	V	.
24.500	13775.3672	3656.17	.	Q	.	.	V	.
24.583	13800.1709	3601.43	.	Q	.	.	V	.
24.667	13824.5820	3544.44	.	Q	.	.	V	.
24.750	13848.5146	3474.96	.	Q	.	.	V	.
24.833	13871.9219	3398.74	.	Q	.	.	V	.
24.917	13894.7383	3312.93	.	Q	.	.	V	.
25.000	13916.9150	3220.12	.	Q	.	.	V	.
25.083	13938.4756	3130.52	.	Q	.	.	V	.
25.167	13959.3516	3031.19	.	Q	.	.	V	.
25.250	13979.5176	2928.05	.	Q	.	.	V	.
25.333	13999.0566	2837.07	.	Q	.	.	V	.
25.417	14017.9121	2737.84	.	Q	.	.	V	.
25.500	14036.0352	2631.51	.	Q	.	.	V	.
25.583	14053.5420	2541.93	.	Q	.	.	V	.
25.667	14070.3486	2440.26	.	Q	.	.	V	.
25.750	14086.3984	2330.46	.	Q	.	.	V	.
25.833	14101.6377	2212.68	.	Q	.	.	V	.
25.917	14116.2129	2116.27	.	Q	.	.	V	.
26.000	14129.9014	1987.61	.	Q	.	.	V	.
26.083	14142.7305	1862.84	.	Q	.	.	V	.
26.167	14154.6104	1724.95	.	Q	.	.	V	.
26.250	14165.7295	1614.57	.	Q	.	.	V	.
26.333	14176.1816	1517.71	.	Q	.	.	V	.
26.417	14185.9023	1411.48	.	Q	.	.	V	.
26.500	14194.7402	1283.22	.	Q	.	.	V	.
26.583	14202.8496	1177.54	.	Q	.	.	V	.
26.667	14210.3271	1085.70	.	Q	.	.	V	.
26.750	14217.1543	991.27	.	Q	.	.	V	.
26.833	14223.4131	908.83	.	Q	.	.	V	.
26.917	14229.1104	827.23	.	Q	.	.	V	.
27.000	14234.3643	762.93	.	Q	.	.	V	.
27.083	14239.2080	703.29	.	Q	.	.	V	.
27.167	14243.6309	642.26	.	Q	.	.	V	.
27.250	14247.6475	583.16	.	Q	.	.	V	.
27.333	14251.2910	529.06	.	Q	.	.	V	.
27.417	14254.5928	479.47	.	Q	.	.	V	.
27.500	14257.6025	437.03	.	Q	.	.	V	.
27.583	14260.3496	398.94	.	Q	.	.	V	.
27.667	14262.8779	367.16	.	Q	.	.	V	.
27.750	14265.1943	336.38	.	Q	.	.	V	.
27.833	14267.3164	308.05	.	Q	.	.	V	.
27.917	14269.2461	280.21	.	Q	.	.	V	.
28.000	14270.9961	254.12	.	Q	.	.	V	.
28.083	14272.5742	229.07	.	Q	.	.	V	.

28.167	14273.9863	205.08	Q	.	.	.	V	.
28.250	14275.2744	187.06	Q	.	.	.	V	.
28.333	14276.4473	170.24	Q	.	.	.	V	.
28.417	14277.5049	153.54	Q	.	.	.	V	.
28.500	14278.4521	137.54	Q	.	.	.	V	.
28.583	14279.3203	126.11	Q	.	.	.	V	.
28.667	14280.1172	115.65	Q	.	.	.	V	.
28.750	14280.8418	105.25	Q	.	.	.	V	.
28.833	14281.4961	94.94	Q	.	.	.	V	.
28.917	14282.0791	84.68	Q	.	.	.	V	.
29.000	14282.5918	74.49	Q	.	.	.	V	.
29.083	14283.0566	67.56	Q	.	.	.	V	.
29.167	14283.5029	64.79	Q	.	.	.	V	.
29.250	14283.9307	62.05	Q	.	.	.	V	.
29.333	14284.3389	59.34	Q	.	.	.	V	.
29.417	14284.7285	56.64	Q	.	.	.	V	.
29.500	14285.1006	53.97	Q	.	.	.	V	.
29.583	14285.4541	51.33	Q	.	.	.	V	.
29.667	14285.7891	48.69	Q	.	.	.	V	.
29.750	14286.1064	46.07	Q	.	.	.	V	.
29.833	14286.4062	43.49	Q	.	.	.	V	.
29.917	14286.6875	40.89	Q	.	.	.	V	.
30.000	14286.9512	38.35	Q	.	.	.	V	.
30.083	14287.1973	35.79	Q	.	.	.	V	.
30.167	14287.4268	33.28	Q	.	.	.	V	.
30.250	14287.6387	30.78	Q	.	.	.	V	.
30.333	14287.8340	28.30	Q	.	.	.	V	.
30.417	14288.0117	25.84	Q	.	.	.	V	.
30.500	14288.1729	23.40	Q	.	.	.	V	.
30.583	14288.3174	20.98	Q	.	.	.	V	.
30.667	14288.4453	18.57	Q	.	.	.	V	.
30.750	14288.5566	16.17	Q	.	.	.	V	.
30.833	14288.6514	13.79	Q	.	.	.	V	.
30.917	14288.7305	11.43	Q	.	.	.	V	.
31.000	14288.7930	9.07	Q	.	.	.	V	.
31.083	14288.8398	6.74	Q	.	.	.	V	.
31.167	14288.8701	4.42	Q	.	.	.	V	.
31.250	14288.8848	2.11	Q	.	.	.	V	.

-----  
TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
(Note: 100% of Peak Flow Rate estimate assumed to have  
an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
=====	=====
0%	1875.0
10%	1430.0
20%	1130.0
30%	605.0
40%	470.0
50%	390.0
60%	330.0
70%	275.0
80%	215.0
90%	145.0
=====	=====

END OF FLOODSCx ROUTING ANALYSIS

\*\*\*\*\*

FLOOD ROUTING ANALYSIS  
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)  
(c) Copyright 1989-2013 Advanced Engineering Software (aes)  
Ver. 20.0 Release Date: 06/01/2013 License ID 1237

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*  
\* RMV PA-3 BODR 2022 - NODE 127 \*  
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*  
\* 50-YR EV JULY 2022 ROKAMOTO \*  
\*\*\*\*\*

FILE NAME: EV50127S.DAT  
TIME/DATE OF STUDY: 13:48 07/24/2022

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 127.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS)<<<<<

=====

(UNIT-HYDROGRAPH ADDED TO STREAM #1)

WATERSHED AREA = 52666.000 ACRES  
BASEFLOW = 0.000 CFS/SQUARE-MILE  
\*USER ENTERED "LAG" TIME = 2.245 HOURS  
VALLEY (DEVELOPED) S-GRAPH SELECTED  
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.291  
LOW LOSS FRACTION = 0.405  
\*HYDROGRAPH MODEL #1 SPECIFIED\*

SPECIFIED PEAK 5-MINUTES RAINFALL (INCH) = 0.46  
SPECIFIED PEAK 30-MINUTES RAINFALL (INCH) = 0.87  
SPECIFIED PEAK 1-HOUR RAINFALL (INCH) = 1.20  
SPECIFIED PEAK 3-HOUR RAINFALL (INCH) = 2.25  
SPECIFIED PEAK 6-HOUR RAINFALL (INCH) = 3.34  
SPECIFIED PEAK 24-HOUR RAINFALL (INCH) = 5.88

\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:  
5-MINUTE FACTOR = 0.333  
30-MINUTE FACTOR = 0.385  
1-HOUR FACTOR = 0.425  
3-HOUR FACTOR = 0.775  
6-HOUR FACTOR = 0.899  
24-HOUR FACTOR = 0.941

UNIT HYDROGRAPH TIME UNIT = 5.000 MINUTES  
UNIT INTERVAL PERCENTAGE OF LAG-TIME = 3.712

UNIT HYDROGRAPH DETERMINATION

INTERVAL NUMBER	"S" GRAPH MEAN VALUES	UNIT HYDROGRAPH ORDINATES (CFS)
1	0.212	1351.000
2	0.636	2702.003
3	1.061	2702.004
4	1.485	2701.999
5	1.918	2759.455
6	2.507	3751.898
7	3.153	4111.744
8	3.808	4172.390
9	4.817	6425.299
10	6.052	7868.600
11	7.579	9727.051
12	9.430	11792.065
13	11.325	12064.854
14	13.183	11833.406
15	15.585	15303.391
16	17.752	13801.409
17	19.765	12818.829
18	22.216	15613.231
19	24.806	16497.725
20	26.933	13546.960
21	29.450	16031.151
22	32.202	17529.422
23	35.369	20172.672
24	37.701	14852.519
25	41.105	21681.098
26	44.445	21270.771
27	48.084	23177.887
28	51.512	21832.760
29	54.174	16955.078
30	56.817	16833.568
31	60.082	20795.086
32	63.586	22317.873
33	66.242	16919.678
34	68.861	16681.301
35	71.353	15874.496
36	73.681	14825.501
37	75.914	14220.167
38	77.644	11019.630
39	79.294	10509.783
40	80.999	10860.048
41	82.667	10622.083
42	84.199	9759.931
43	85.615	9018.486
44	86.837	7785.174
45	87.948	7075.509
46	88.858	5792.826
47	89.729	5552.334
48	90.541	5168.589

49	91.322	4977.566
50	92.089	4882.954
51	92.801	4536.869
52	93.508	4500.860
53	94.139	4018.226
54	94.615	3032.986
55	95.086	3001.108
56	95.557	3001.157
57	96.001	2823.498
58	96.309	1963.872
59	96.600	1854.973
60	96.891	1854.973
61	97.182	1853.273
62	97.474	1854.973
63	97.765	1853.321
64	98.003	1518.169
65	98.083	511.062
66	98.153	442.398
67	98.222	444.051
68	98.292	442.350
69	98.362	444.051
70	98.431	440.698
71	98.500	442.398
72	98.570	445.703
73	98.639	440.698
74	98.709	442.398
75	98.778	442.398
76	98.848	445.703
77	98.918	445.751
78	98.988	442.350
79	99.057	439.046
80	99.126	439.046
81	99.194	439.046
82	99.263	439.046
83	99.332	439.046
84	99.401	439.046
85	99.470	439.046
86	99.539	439.046
87	99.608	439.046
88	99.677	439.046
89	99.746	439.046
90	99.815	439.046
91	99.884	439.046
92	99.953	439.046
93	100.000	301.282

-----  
TOTAL SOIL-LOSS VOLUME (ACRE-FEET) = 9665.5381  
TOTAL STORM RUNOFF VOLUME (ACRE-FEET) = 14597.0420  
-----

=====  
2 4 - 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 FIVE-MINUTE UNIT INTERVALS (CFS)  
(Note: Time indicated is at END of Each Unit Intervals)

TIME (HRS)	VOLUME (AF)	Q (CFS)	0.	4500.0	9000.0	13500.0	18000.0
0.083	0.0468	6.80	Q	.	.	.	.
0.167	0.1874	20.41	Q	.	.	.	.
0.250	0.4220	34.07	Q	.	.	.	.
0.333	0.7510	47.76	Q	.	.	.	.
0.417	1.1765	61.78	Q	.	.	.	.
0.500	1.7333	80.85	Q	.	.	.	.
0.583	2.4342	101.77	Q	.	.	.	.
0.667	3.2817	123.06	Q	.	.	.	.
0.750	4.3544	155.76	Q	.	.	.	.
0.833	5.7030	195.81	Q	.	.	.	.
0.917	7.3926	245.33	Q	.	.	.	.
1.000	9.4959	305.39	Q	.	.	.	.
1.083	12.0234	367.00	Q	.	.	.	.
1.167	14.9686	427.63	Q	.	.	.	.
1.250	18.4528	505.91	VQ	.	.	.	.
1.333	22.4256	576.85	VQ	.	.	.	.
1.417	26.8546	643.09	VQ	.	.	.	.
1.500	31.8379	723.57	VQ	.	.	.	.
1.583	37.4078	808.76	VQ	.	.	.	.
1.667	43.4639	879.35	VQ	.	.	.	.
1.750	50.0940	962.68	V Q	.	.	.	.
1.833	57.3515	1053.78	V Q	.	.	.	.
1.917	65.3301	1158.50	V Q	.	.	.	.
2.000	73.8475	1236.72	V Q	.	.	.	.
2.083	83.1425	1349.64	V Q	.	.	.	.
2.167	93.2026	1460.73	V Q	.	.	.	.
2.250	104.0971	1581.88	V Q	.	.	.	.
2.333	115.7811	1696.52	V Q	.	.	.	.
2.417	128.0890	1787.10	V Q	.	.	.	.
2.500	141.0178	1877.26	V Q	.	.	.	.
2.583	154.7076	1987.76	V Q	.	.	.	.
2.667	169.2129	2106.16	V Q	.	.	.	.
2.750	184.3499	2197.89	V Q	.	.	.	.
2.833	200.1118	2288.63	V Q	.	.	.	.
2.917	216.4735	2375.72	V Q	.	.	.	.
3.000	233.4000	2457.72	V Q	.	.	.	.
3.083	250.8729	2537.07	V Q	.	.	.	.
3.167	268.7825	2600.48	V Q	.	.	.	.
3.250	287.1137	2661.68	V Q	.	.	.	.
3.333	305.8793	2724.76	V Q	.	.	.	.
3.417	325.0734	2786.99	V Q	.	.	.	.
3.500	344.6671	2845.00	V Q	.	.	.	.
3.583	364.6369	2899.62	V Q	.	.	.	.
3.667	384.9409	2948.14	.V Q	.	.	.	.
3.750	405.5566	2993.40	.V Q	.	.	.	.
3.833	426.4401	3032.29	.V Q	.	.	.	.
3.917	447.5851	3070.25	.V Q	.	.	.	.



4.000	468.9787	3106.35	.V	Q	.	.	.	.
4.083	490.6163	3141.78	.V	Q	.	.	.	.
4.167	512.4949	3176.77	.V	Q	.	.	.	.
4.250	534.6045	3210.32	.V	Q	.	.	.	.
4.333	556.9442	3243.73	.V	Q	.	.	.	.
4.417	579.4994	3275.01	.V	Q	.	.	.	.
4.500	602.2361	3301.37	.V	Q	.	.	.	.
4.583	625.1552	3327.85	.V	Q	.	.	.	.
4.667	648.2567	3354.35	.V	Q	.	.	.	.
4.750	671.5366	3380.24	.V	Q	.	.	.	.
4.833	694.9652	3401.83	.V	Q	.	.	.	.
4.917	718.5407	3423.16	.V	Q	.	.	.	.
5.000	742.2631	3444.49	.V	Q	.	.	.	.
5.083	766.1343	3466.10	.V	Q	.	.	.	.
5.167	790.1544	3487.73	.V	Q	.	.	.	.
5.250	814.3255	3509.64	.V	Q	.	.	.	.
5.333	838.6359	3529.88	.V	Q	.	.	.	.
5.417	863.0529	3545.34	.V	Q	.	.	.	.
5.500	887.5739	3560.46	.V	Q	.	.	.	.
5.583	912.2011	3575.87	.V	Q	.	.	.	.
5.667	936.9343	3591.26	.V	Q	.	.	.	.
5.750	961.7756	3606.96	.V	Q	.	.	.	.
5.833	986.7249	3622.64	.V	Q	.	.	.	.
5.917	1011.7844	3638.63	.V	Q	.	.	.	.
6.000	1036.9540	3654.63	.V	Q	.	.	.	.
6.083	1062.2358	3670.93	.V	Q	.	.	.	.
6.167	1087.6299	3687.22	.V	Q	.	.	.	.
6.250	1113.1384	3703.85	.V	Q	.	.	.	.
6.333	1138.7616	3720.48	.V	Q	.	.	.	.
6.417	1164.5016	3737.45	.V	Q	.	.	.	.
6.500	1190.3584	3754.41	.V	Q	.	.	.	.
6.583	1216.3342	3771.69	.V	Q	.	.	.	.
6.667	1242.4291	3788.97	.V	Q	.	.	.	.
6.750	1268.6454	3806.61	.V	Q	.	.	.	.
6.833	1294.9832	3824.25	.V	Q	.	.	.	.
6.917	1321.4449	3842.26	.V	Q	.	.	.	.
7.000	1348.0309	3860.27	.V	Q	.	.	.	.
7.083	1374.7434	3878.66	.V	Q	.	.	.	.
7.167	1401.5826	3897.06	.V	Q	.	.	.	.
7.250	1428.5514	3915.86	.V	Q	.	.	.	.
7.333	1455.6495	3934.66	.V	Q	.	.	.	.
7.417	1482.8800	3953.87	.V	Q	.	.	.	.
7.500	1510.2428	3973.08	.V	Q	.	.	.	.
7.583	1537.7410	3992.73	.V	Q	.	.	.	.
7.667	1565.3744	4012.38	.V	Q	.	.	.	.
7.750	1593.1415	4031.78	.V	Q	.	.	.	.
7.833	1621.0317	4049.67	.V	Q	.	.	.	.
7.917	1649.0483	4068.01	.V	Q	.	.	.	.
8.000	1677.1913	4086.36	.V	Q	.	.	.	.
8.083	1705.4639	4105.17	.V	Q	.	.	.	.
8.167	1733.8661	4124.01	.V	Q	.	.	.	.
8.250	1762.4012	4143.31	.V	Q	.	.	.	.
8.333	1791.0696	4162.65	.V	Q	.	.	.	.
8.417	1819.8745	4182.47	.V	Q	.	.	.	.
8.500	1848.8162	4202.33	.V	Q	.	.	.	.
8.583	1877.8981	4222.69	.V	Q	.	.	.	.
8.667	1907.1205	4243.09	.V	Q	.	.	.	.
8.750	1936.4871	4264.02	.V	Q	.	.	.	.

8.833	1965.9980	4284.99	.	V	Q	.	.	.
8.917	1995.6572	4306.52	.	V	Q	.	.	.
9.000	2025.4650	4328.08	.	V	Q	.	.	.
9.083	2055.4253	4350.22	.	V	Q	.	.	.
9.167	2085.5383	4372.42	.	V	Q	.	.	.
9.250	2115.8083	4395.21	.	V	Q	.	.	.
9.333	2146.2358	4418.07	.	V	Q	.	.	.
9.417	2176.8250	4441.55	.	V	Q	.	.	.
9.500	2207.5762	4465.09	.	V	Q	.	.	.
9.583	2238.4941	4489.28	.	V	Q	.	.	.
9.667	2269.5791	4513.55	.	V	Q	.	.	.
9.750	2300.8359	4538.50	.	V	Q	.	.	.
9.833	2332.2654	4563.54	.	V	Q	.	.	.
9.917	2363.8721	4589.29	.	V	Q	.	.	.
10.000	2395.6567	4615.12	.	V	Q	.	.	.
10.083	2427.6245	4641.71	.	V	Q	.	.	.
10.167	2459.7761	4668.40	.	V	Q	.	.	.
10.250	2492.1169	4695.87	.	V	Q	.	.	.
10.333	2524.6477	4723.46	.	V	Q	.	.	.
10.417	2557.3740	4751.86	.	V	Q	.	.	.
10.500	2590.2969	4780.40	.	V	Q	.	.	.
10.583	2623.4221	4809.80	.	V	Q	.	.	.
10.667	2656.7510	4839.34	.	V	Q	.	.	.
10.750	2690.2893	4869.78	.	V	Q	.	.	.
10.833	2724.0386	4900.39	.	V	Q	.	.	.
10.917	2758.0051	4931.95	.	V	Q	.	.	.
11.000	2792.1904	4963.69	.	V	.Q	.	.	.
11.083	2826.6011	4996.42	.	V	.Q	.	.	.
11.167	2861.2385	5029.37	.	V	.Q	.	.	.
11.250	2896.1101	5063.37	.	V	.Q	.	.	.
11.333	2931.2175	5097.60	.	V	.Q	.	.	.
11.417	2966.5684	5132.93	.	V	.Q	.	.	.
11.500	3002.1643	5168.53	.	V	.Q	.	.	.
11.583	3038.0134	5205.30	.	V	.Q	.	.	.
11.667	3074.1179	5242.36	.	V	.Q	.	.	.
11.750	3110.4861	5280.66	.	V	.Q	.	.	.
11.833	3147.1204	5319.29	.	V	.Q	.	.	.
11.917	3184.0298	5359.24	.	V	.Q	.	.	.
12.000	3221.2168	5399.55	.	V	.Q	.	.	.
12.083	3258.7703	5452.78	.	V	.Q	.	.	.
12.167	3296.7722	5517.90	.	V	.Q	.	.	.
12.250	3335.2322	5584.39	.	V	.Q	.	.	.
12.333	3374.1523	5651.22	.	V	.Q	.	.	.
12.417	3413.5464	5720.02	.	V	.Q	.	.	.
12.500	3453.4751	5797.65	.	V	.Q	.	.	.
12.583	3493.9702	5879.90	.	V	.Q	.	.	.
12.667	3535.0378	5963.02	.	V	.Q	.	.	.
12.750	3576.8213	6066.97	.	V	.Q	.	.	.
12.833	3619.4077	6183.56	.	V	.Q	.	.	.
12.917	3662.9172	6317.57	.	V	.Q	.	.	.
13.000	3707.4727	6469.44	.	V	.Q	.	.	.
13.083	3753.1006	6625.17	.	V	.Q	.	.	.
13.167	3799.7886	6779.09	.	V	.Q	.	.	.
13.250	3847.7517	6964.23	.	V	.Q	.	.	.
13.333	3896.9023	7136.69	.	V	.Q	.	.	.
13.417	3947.1941	7302.37	.	V	.Q	.	.	.
13.500	3998.7930	7492.14	.	V	.Q	.	.	.
13.583	4051.7625	7691.16	.	.V	Q	.	.	.

13.667	4105.9302	7865.16	.	.V	Q	.	.	.
13.750	4161.4551	8062.22	.	.V	Q	.	.	.
13.833	4218.4272	8272.33	.	.V	Q	.	.	.
13.917	4277.0142	8506.82	.	.V	Q	.	.	.
14.000	4336.9053	8696.16	.	.V	Q	.	.	.
14.083	4398.6030	8958.48	.	.V	Q	.	.	.
14.167	4462.1714	9230.10	.	.V	Q	.	.	.
14.250	4527.7275	9518.77	.	.V	.Q	.	.	.
14.333	4595.1885	9795.36	.	.V	.Q	.	.	.
14.417	4664.2773	10031.72	.	.V	.Q	.	.	.
14.500	4735.0488	10276.00	.	.V	.Q	.	.	.
14.583	4807.7646	10558.35	.	.V	.Q	.	.	.
14.667	4882.5107	10853.15	.	.V	.Q	.	.	.
14.750	4959.1206	11123.77	.	.V	.Q	.	.	.
14.833	5037.6626	11404.31	.	.V	.Q	.	.	.
14.917	5118.2065	11694.97	.	.V	.Q	.	.	.
15.000	5200.8047	11993.25	.	.V	.Q	.	.	.
15.083	5285.4258	12286.97	.	.V	.Q	.	.	.
15.167	5371.8379	12547.01	.	.V	.Q	.	.	.
15.250	5460.2217	12833.33	.	.V	.Q	.	.	.
15.333	5550.4648	13103.32	.	.V	.Q	.	.	.
15.417	5642.3486	13341.55	.	.V	.Q	.	.	.
15.500	5735.8657	13578.65	.	.V	.Q	.	.	.
15.583	5831.0259	13817.29	.	.V	.Q	.	.	.
15.667	5927.5488	14015.13	.	.V	.Q	.	.	.
15.750	6025.5049	14223.19	.	.V	.Q	.	.	.
15.833	6124.7822	14415.09	.	.V	.Q	.	.	.
15.917	6225.5605	14633.00	.	.V	.Q	.	.	.
16.000	6327.5742	14812.39	.	.V	.Q	.	.	.
16.083	6432.0039	15163.19	.	.V	.Q	.	.	.
16.167	6538.5312	15467.78	.	.V	.Q	.	.	.
16.250	6646.0796	15616.04	.	.V	.Q	.	.	.
16.333	6754.4141	15730.13	.	.V	.Q	.	.	.
16.417	6863.2910	15808.92	.	.V	.Q	.	.	.
16.500	6973.4233	15991.25	.	.V	.Q	.	.	.
16.583	7084.3442	16105.70	.	.V	.Q	.	.	.
16.667	7196.2314	16245.99	.	.V	.Q	.	.	.
16.750	7310.4067	16578.29	.	.V	.Q	.	.	.
16.833	7426.1143	16800.74	.	.V	.Q	.	.	.
16.917	7543.4170	17032.35	.	.V	.Q	.	.	.
17.000	7662.5488	17297.95	.	.V	.Q	.	.	.
17.083	7782.1079	17359.95	.	.V	.Q	.	.	.
17.167	7901.4351	17326.32	.	.V	.Q	.	.	.
17.250	8022.7261	17611.49	.	.V	.Q	.	.	.
17.333	8143.2515	17500.26	.	.V	.Q	.	.	.
17.417	8262.9775	17384.19	.	.V	.Q	.	.	.
17.500	8384.2324	17606.24	.	.V	.Q	.	.	.
17.583	8505.5459	17614.68	.	.V	.Q	.	.	.
17.667	8624.7070	17302.16	.	.V	.Q	.	.	.
17.750	8745.6670	17563.34	.	.V	.Q	.	.	.
17.833	8867.5820	17702.01	.	.V	.Q	.	.	.
17.917	8990.6494	17869.41	.	.V	.Q	.	.	.
18.000	9109.2666	17223.19	.	.V	.Q	.	.	.
18.083	9232.6123	17909.77	.	.V	.Q	.	.	.
18.167	9355.3682	17824.14	.	.V	.Q	.	.	.
18.250	9478.7852	17920.11	.	.V	.Q	.	.	.
18.333	9599.9053	17586.63	.	.V	.Q	.	.	.
18.417	9717.4414	17066.28	.	.V	.Q	.	.	.

18.500	9835.0889	17082.40	.	.	.	V	.	Q	.
18.583	9955.5107	17485.31	.	.	.	V	.	Q	.
18.667	10076.5781	17578.92	.	.	.	V	.	Q	.
18.750	10192.8760	16886.47	.	.	.	V	.	Q	.
18.833	10307.9648	16710.86	.	.	.	V	.	Q	.
18.917	10421.3975	16470.39	.	.	.	V	.	Q	.
19.000	10533.4160	16265.15	.	.	.	V	.	Q	.
19.083	10643.3721	15965.58	.	.	.	V	.	Q	.
19.167	10749.6943	15438.02	.	.	.	V	.	Q	.
19.250	10854.0244	15148.75	.	.	.	V	.	Q	.
19.333	10956.9834	14949.67	.	.	.	V	.	Q	.
19.417	11058.3555	14719.27	.	.	.	V	.	Q	.
19.500	11157.2500	14359.44	.	.	.	V	.	Q	.
19.583	11253.3320	13951.05	.	.	.	V	.	Q	.
19.667	11346.2979	13498.60	.	.	.	V	.	Q	.
19.750	11436.7012	13126.54	.	.	.	V	.	Q	.
19.833	11524.1055	12691.09	.	.	.	V	.	Q	.
19.917	11609.1104	12342.71	.	.	.	V	.	Q	.
20.000	11691.8828	12018.63	.	.	.	V	.	Q	.
20.083	11772.1641	11656.80	.	.	.	V	.	Q	.
20.167	11850.2168	11333.24	.	.	.	V	.	Q	.
20.250	11925.7451	10966.74	.	.	.	V	.	Q	.
20.333	11998.9141	10624.13	.	.	.	V	.	Q	.
20.417	12069.6465	10270.41	.	.	.	V	.	Q	.
20.500	12137.7207	9884.37	.	.	.	V	.	Q	.
20.583	12203.6152	9567.84	.	.	.	V	.	Q	.
20.667	12267.3223	9250.25	.	.	.	V	.	Q	.
20.750	12329.0996	8970.10	.	.	.	V	.	Q	.
20.833	12388.5293	8629.18	.	.	.	V	.	Q	.
20.917	12446.2285	8377.93	.	.	.	V	.	Q	.
21.000	12502.3721	8152.06	.	.	.	V	.	Q	.
21.083	12557.0322	7936.71	.	.	.	V	.	Q	.
21.167	12610.3193	7737.23	.	.	.	V	.	Q	.
21.250	12662.2090	7534.39	.	.	.	V	.	Q	.
21.333	12712.4062	7288.63	.	.	.	V	.	Q	.
21.417	12760.5430	6989.52	.	.	.	V	.	Q	.
21.500	12807.4463	6810.35	.	.	.	V	.	Q	.
21.583	12853.2295	6647.73	.	.	.	V	.	Q	.
21.667	12897.9648	6495.56	.	.	.	V	.	Q	.
21.750	12941.6289	6340.08	.	.	.	V	.	Q	.
21.833	12984.3311	6200.36	.	.	.	V	.	Q	.
21.917	13026.1055	6065.67	.	.	.	V	.	Q	.
22.000	13066.9854	5935.71	.	.	.	V	.	Q	.
22.083	13106.9854	5807.95	.	.	.	V	.	Q	.
22.167	13146.1240	5682.98	.	.	.	V	.	Q	.
22.250	13184.4307	5562.08	.	.	.	V	.	Q	.
22.333	13221.9395	5446.29	.	.	.	V	.	Q	.
22.417	13258.7529	5345.28	.	.	.	V	.	Q	.
22.500	13294.9443	5255.05	.	.	.	V	.	Q	.
22.583	13330.5303	5167.13	.	.	.	V	.	Q	.
22.667	13365.5273	5081.53	.	.	.	V	.	Q	.
22.750	13399.9570	4999.23	.	.	.	V	.	Q	.
22.833	13433.8828	4926.01	.	.	.	V	.	Q	.
22.917	13467.3223	4855.34	.	.	.	V	.	Q	.
23.000	13500.2861	4786.29	.	.	.	V	.	Q	.
23.083	13532.7969	4720.54	.	.	.	V	.	Q	.
23.167	13564.8896	4659.86	.	.	.	V	.	Q	.
23.250	13596.5703	4600.07	.	.	.	V	.	Q	.

23.333	13627.8633	4543.76	.	Q	.	.	V	.
23.417	13658.8369	4497.40	.	Q.	.	.	V	.
23.500	13689.5088	4453.59	.	Q.	.	.	V	.
23.583	13719.8770	4409.41	.	Q.	.	.	V	.
23.667	13749.9258	4363.12	.	Q.	.	.	V	.
23.750	13779.5547	4302.15	.	Q.	.	.	V	.
23.833	13808.6748	4228.27	.	Q.	.	.	V	.
23.917	13837.5166	4187.83	.	Q.	.	.	V	.
24.000	13866.0879	4148.61	.	Q.	.	.	V	.
24.083	13894.3438	4102.72	.	Q.	.	.	V	.
24.167	13922.2178	4047.33	.	Q.	.	.	V	.
24.250	13949.7139	3992.48	.	Q.	.	.	V	.
24.333	13976.8359	3938.14	.	Q.	.	.	V	.
24.417	14003.5859	3884.08	.	Q.	.	.	V	.
24.500	14029.9326	3825.60	.	Q.	.	.	V	.
24.583	14055.8691	3765.92	.	Q.	.	.	V	.
24.667	14081.3955	3706.50	.	Q.	.	.	V	.
24.750	14106.4482	3637.65	.	Q.	.	.	V	.
24.833	14131.0020	3565.18	.	Q.	.	.	V	.
24.917	14154.9980	3484.29	.	Q.	.	.	V	.
25.000	14178.3721	3393.98	.	Q.	.	.	V	.
25.083	14201.1221	3303.26	.	Q.	.	.	V	.
25.167	14223.2617	3214.65	.	Q.	.	.	V	.
25.250	14244.6768	3109.52	.	Q.	.	.	V	.
25.333	14265.4268	3012.90	.	Q.	.	.	V	.
25.417	14285.5518	2922.13	.	Q.	.	.	V	.
25.500	14304.9609	2818.17	.	Q.	.	.	V	.
25.583	14323.6299	2710.68	.	Q.	.	.	V	.
25.667	14341.6660	2618.91	.	Q.	.	.	V	.
25.750	14358.9980	2516.65	.	Q.	.	.	V	.
25.833	14375.5977	2410.29	.	Q.	.	.	V	.
25.917	14391.3799	2291.55	.	Q.	.	.	V	.
26.000	14406.5352	2200.51	.	Q.	.	.	V	.
26.083	14420.8320	2075.93	.	Q.	.	.	V	.
26.167	14434.2920	1954.37	.	Q.	.	.	V	.
26.250	14446.8555	1824.15	.	Q.	.	.	V	.
26.333	14458.5752	1701.65	.	Q.	.	.	V	.
26.417	14469.6260	1604.55	.	Q.	.	.	V	.
26.500	14480.0176	1508.79	.	Q.	.	.	V	.
26.583	14489.6172	1393.85	.	Q.	.	.	V	.
26.667	14498.3779	1272.07	.	Q.	.	.	V	.
26.750	14506.4922	1178.25	.	Q.	.	.	V	.
26.833	14513.9736	1086.29	.	Q.	.	.	V	.
26.917	14520.8545	999.04	.	Q.	.	.	V	.
27.000	14527.1748	917.66	.	Q.	.	.	V	.
27.083	14532.9590	839.90	.	Q.	.	.	V	.
27.167	14538.3223	778.75	.	Q.	.	.	V	.
27.250	14543.2852	720.59	.	Q.	.	.	V	.
27.333	14547.8379	661.09	.	Q.	.	.	V	.
27.417	14551.9922	603.19	.	Q.	.	.	V	.
27.500	14555.7803	550.03	.	Q.	.	.	V	.
27.583	14559.2305	500.95	.	Q.	.	.	V	.
27.667	14562.3877	458.40	.	Q.	.	.	V	.
27.750	14565.2783	419.71	Q	.	.	.	V	.
27.833	14567.9482	387.73	Q	.	.	.	V	.
27.917	14570.4082	357.19	Q	.	.	.	V	.
28.000	14572.6729	328.78	Q	.	.	.	V	.
28.083	14574.7500	301.53	Q	.	.	.	V	.

28.167	14576.6436	274.95	Q	.	.	.	V	.
28.250	14578.3672	250.28	Q	.	.	.	V	.
28.333	14579.9238	225.96	Q	.	.	.	V	.
28.417	14581.3301	204.23	Q	.	.	.	V	.
28.500	14582.6221	187.60	Q	.	.	.	V	.
28.583	14583.8018	171.24	Q	.	.	.	V	.
28.667	14584.8691	155.00	Q	.	.	.	V	.
28.750	14585.8320	139.75	Q	.	.	.	V	.
28.833	14586.7197	128.93	Q	.	.	.	V	.
28.917	14587.5371	118.73	Q	.	.	.	V	.
29.000	14588.2852	108.60	Q	.	.	.	V	.
29.083	14588.9639	98.54	Q	.	.	.	V	.
29.167	14589.5732	88.55	Q	.	.	.	V	.
29.250	14590.1152	78.63	Q	.	.	.	V	.
29.333	14590.6006	70.46	Q	.	.	.	V	.
29.417	14591.0645	67.41	Q	.	.	.	V	.
29.500	14591.5098	64.72	Q	.	.	.	V	.
29.583	14591.9375	62.05	Q	.	.	.	V	.
29.667	14592.3467	59.41	Q	.	.	.	V	.
29.750	14592.7373	56.78	Q	.	.	.	V	.
29.833	14593.1104	54.18	Q	.	.	.	V	.
29.917	14593.4658	51.60	Q	.	.	.	V	.
30.000	14593.8037	49.02	Q	.	.	.	V	.
30.083	14594.1240	46.49	Q	.	.	.	V	.
30.167	14594.4268	43.96	Q	.	.	.	V	.
30.250	14594.7119	41.45	Q	.	.	.	V	.
30.333	14594.9805	38.95	Q	.	.	.	V	.
30.417	14595.2314	36.46	Q	.	.	.	V	.
30.500	14595.4658	34.01	Q	.	.	.	V	.
30.583	14595.6836	31.59	Q	.	.	.	V	.
30.667	14595.8848	29.18	Q	.	.	.	V	.
30.750	14596.0693	26.80	Q	.	.	.	V	.
30.833	14596.2373	24.43	Q	.	.	.	V	.
30.917	14596.3896	22.07	Q	.	.	.	V	.
31.000	14596.5254	19.73	Q	.	.	.	V	.
31.083	14596.6455	17.40	Q	.	.	.	V	.
31.167	14596.7490	15.09	Q	.	.	.	V	.
31.250	14596.8369	12.80	Q	.	.	.	V	.
31.333	14596.9092	10.51	Q	.	.	.	V	.
31.417	14596.9658	8.25	Q	.	.	.	V	.
31.500	14597.0068	5.99	Q	.	.	.	V	.
31.583	14597.0322	3.75	Q	.	.	.	V	.
31.667	14597.0430	1.52	Q	.	.	.	V	.

-----  
TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW RATE:  
(Note: 100% of Peak Flow Rate estimate assumed to have  
an instantaneous time duration)

Percentile of Estimated Peak Flow Rate	Duration (minutes)
=====	=====
0%	1900.0
10%	1430.0
20%	1150.0
30%	625.0
40%	480.0
50%	400.0
60%	340.0

70%	285.0
80%	225.0
90%	145.0

=====

END OF FLOODSCx ROUTING ANALYSIS

\*\*\*\*\*

FLOOD ROUTING ANALYSIS  
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)  
(c) Copyright 1989-2010 Advanced Engineering Software (aes)  
Ver. 17.0 Release Date: 07/01/2010 License ID 1527

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*  
\* RMV PA-3 ROMP AMENDMENT 2022 - NODE 137 \*  
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*  
\* 50-YR EV MAY 2023 ROKAMOTO \*  
\*\*\*\*\*

FILE NAME: EV50137S.DAT  
TIME/DATE OF STUDY: 00:36 08/11/2023

\*\* INPUT SUMMARY \*\*

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 137.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS) ADDED TO STREAM #1<<<<

=====

WATERSHED AREA = 67799.000 ACRES; BASEFLOW = 0.000 CFS/SQUARE-MILE  
\*USER ENTERED "LAG" TIME = 2.597 HOURS  
VALLEY (DEVELOPED) S-GRAPH SELECTED  
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.283; LOW LOSS FRACTION = 0.416  
SPECIFIED PEAK RAINFALL DEPTHS (INCH):  
5-MINUTE = 0.44; 30-MINUTE = 0.85; 1-HOUR = 1.17  
3-HOUR = 2.14; 6-HOUR = 3.15; 24-HOUR = 5.48  
\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:  
5-MINUTE = 0.291; 30-MINUTE = 0.350; 1-HOUR = 0.394  
3-HOUR = 0.738; 6-HOUR = 0.886; 24-HOUR = 0.933

=====

```
+-----+
|
| * AES FLOODSCx PROGRAM RESULTS SUMMARY *
| INPUT FILENAME: [EV50137S.DAT ]
Page: 1 of |
+-----+-----+
|UPSTREAM DOWNSTREAM| | UPSTREAM DOWNSTREAM|
TIME (2) TO | MAX. STORAGE| |
| NODE # NODE # | HYDROLOGIC/HYDRAULIC PROCESS | PEAK (CFS) PEAK (CFS) |
PEAK (HR) | MODELED (AF) | FOOTNOTES |
+-----+-----+-----+
| 10100.00 137.00| Subarea (UH) Added to Stream #1| 0.0 20134.5|
18.167 | | |
+-----+-----+-----+
|Notes: 1 = BASIN MODEL VOLUME EXCEEDED; 2 = TIME IS AT END OF 5-MINUTE UNIT
INTERVAL |
| 3 = RUNOFF ESTIMATES DO NOT EXTEND PAST 2 DAYS AFTER THE PEAK DAY OF
THE DESIGN STORM |
+-----+-----+-----+
+-----+
```

END OF FLOODSCx ROUTING ANALYSIS

\*\*\*\*\*

FLOOD ROUTING ANALYSIS  
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)  
(c) Copyright 1989-2010 Advanced Engineering Software (aes)  
Ver. 17.0 Release Date: 07/01/2010 License ID 1527

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*  
\* RMV PA-3 ROMP AMENDMENT 2022 - NODE 138 \*  
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*  
\* 50-YR EV JAUG 2023 ROKAMOTO \*  
\*\*\*\*\*

FILE NAME: EV50138S.DAT  
TIME/DATE OF STUDY: 00:36 08/11/2023

\*\* INPUT SUMMARY \*\*

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 138.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS) ADDED TO STREAM #1<<<<

=====

WATERSHED AREA = 69102.703 ACRES; BASEFLOW = 0.000 CFS/SQUARE-MILE  
\*USER ENTERED "LAG" TIME = 2.677 HOURS  
VALLEY (DEVELOPED) S-GRAPH SELECTED  
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.282; LOW LOSS FRACTION = 0.417  
SPECIFIED PEAK RAINFALL DEPTHS (INCH):  
5-MINUTE = 0.44; 30-MINUTE = 0.85; 1-HOUR = 1.17  
3-HOUR = 2.14; 6-HOUR = 3.13; 24-HOUR = 5.46  
\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:  
5-MINUTE = 0.287; 30-MINUTE = 0.348; 1-HOUR = 0.392  
3-HOUR = 0.734; 6-HOUR = 0.885; 24-HOUR = 0.932

=====

-----+  
-----+  
| \* AES FLOODSCx PROGRAM RESULTS SUMMARY \*  
|  
| INPUT FILENAME: [EV50138S.DAT ]  
Page: 1 of |  
-----+-----+-----+  
-----+-----+-----+  
| UPSTREAM DOWNSTREAM| | UPSTREAM DOWNSTREAM|  
TIME (2) TO | MAX. STORAGE| |  
| NODE # NODE # | HYDROLOGIC/HYDRAULIC PROCESS | PEAK (CFS) PEAK (CFS) |  
PEAK (HR) | MODELED (AF) | FOOTNOTES |  
-----+-----+-----+  
-----+-----+-----+  
| 10100.00 138.00| Subarea (UH) Added to Stream #1| 0.0 20253.1|  
18.250 | | |  
-----+-----+-----+  
-----+-----+-----+  
| Notes: 1 = BASIN MODEL VOLUME EXCEEDED; 2 = TIME IS AT END OF 5-MINUTE UNIT  
INTERVAL |  
| 3 = RUNOFF ESTIMATES DO NOT EXTEND PAST 2 DAYS AFTER THE PEAK DAY OF  
THE DESIGN STORM |  
-----+-----+-----+  
-----+-----+-----+

END OF FLOODSCx ROUTING ANALYSIS

\*\*\*\*\*

FLOOD ROUTING ANALYSIS  
USING COUNTY HYDROLOGY MANUAL OF ORANGE (1986)  
(c) Copyright 1989-2010 Advanced Engineering Software (aes)  
Ver. 17.0 Release Date: 07/01/2010 License ID 1527

Analysis prepared by:

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*  
\* RMV PA-3 ROMP AMENDMENT 2022 - NODE 139 \*  
\* REGIONAL UNIT HYDROGRAPH - SINGLE AREA MODEL \*  
\* 50-YR EV MAY 2023 ROKAMOTO \*  
\*\*\*\*\*

FILE NAME: EV50139S.DAT  
TIME/DATE OF STUDY: 00:35 08/11/2023

\*\* INPUT SUMMARY \*\*

\*\*\*\*\*

FLOW PROCESS FROM NODE 10100.00 TO NODE 139.00 IS CODE = 1

>>>>SUBAREA RUNOFF (UNIT-HYDROGRAPH ANALYSIS) ADDED TO STREAM #1<<<<

=====

WATERSHED AREA = 69530.500 ACRES; BASEFLOW = 0.000 CFS/SQUARE-MILE  
\*USER ENTERED "LAG" TIME = 2.726 HOURS  
VALLEY (DEVELOPED) S-GRAPH SELECTED  
MAXIMUM WATERSHED LOSS RATE (INCH/HOUR) = 0.282; LOW LOSS FRACTION = 0.417  
SPECIFIED PEAK RAINFALL DEPTHS (INCH):  
5-MINUTE = 0.44; 30-MINUTE = 0.85; 1-HOUR = 1.17  
3-HOUR = 2.14; 6-HOUR = 3.13; 24-HOUR = 5.45  
\*USER SPECIFIED PRECIPITATION DEPTH-AREA REDUCTION FACTORS:  
5-MINUTE = 0.286; 30-MINUTE = 0.348; 1-HOUR = 0.391  
3-HOUR = 0.733; 6-HOUR = 0.885; 24-HOUR = 0.932

=====

-----+  
-----+  
| \* AES FLOODSCx PROGRAM RESULTS SUMMARY \*  
|  
| INPUT FILENAME: [EV50139S.DAT ]  
Page: 1 of |  
-----+-----+  
-----+-----+  
| UPSTREAM DOWNSTREAM | UPSTREAM DOWNSTREAM |  
TIME (2) TO | MAX. STORAGE |  
| NODE # NODE # | HYDROLOGIC/HYDRAULIC PROCESS | PEAK (CFS) PEAK (CFS) |  
PEAK (HR) | MODELED (AF) | FOOTNOTES |  
-----+-----+  
-----+-----+  
| 10100.00 139.00 | Subarea (UH) Added to Stream #1 | 0.0 20169.4 |  
17.833 | | |  
-----+-----+  
-----+-----+  
| Notes: 1 = BASIN MODEL VOLUME EXCEEDED; 2 = TIME IS AT END OF 5-MINUTE UNIT  
INTERVAL |  
| 3 = RUNOFF ESTIMATES DO NOT EXTEND PAST 2 DAYS AFTER THE PEAK DAY OF  
THE DESIGN STORM |  
-----+-----+  
-----+-----+

END OF FLOODSCx ROUTING ANALYSIS