

AHYMO PROGRAM (AHYMO-S4) - Version: S4.01a - Rel: 01a
 RUN DATE (MON/DAY/YR) = 12/05/2023
 START TIME (HR:MIN:SEC) = 11:59:33 USER NO.= AHYMO_Temp_User:20122010
 INPUT FILE = OBJECTS\2200-2299\2290\CALCS\AHYMO UNITS 3&4 ESC STUDY\2591-100yr storm study.DAT

*S ASPIRE UNITS 3&4
 *S CONSTRUCTION CONDITIONS
 *S 100-YR, 24-HR STORM
 *S 2591-100yr storm study.DAT
 *S DECEMBER 2023
 *S ISAACSON & ARFMAN, INC.
 *S*****

START RAINFALL BEGINS AT 0.0 HRS
 RAINFALL TYPE=2 RAIN QUARTER=0 RAIN ONE=1.81
 RAIN SIX=2.31 RAIN DAY=2.64 DT=0.05HR

24-HOUR RAINFALL DIST. - BASED ON NOAA ATLAS 14 FOR CONVECTIVE AREAS (NM & AZ) - D1

DT =	0.050000 HOURS	END TIME =	24.000002 HOURS
0.0000	0.0033	0.0068	0.0104
0.0000	0.0033	0.0068	0.0144
0.0000	0.0033	0.0068	0.0185
0.0000	0.0033	0.0068	0.0232
0.0297	0.0401	0.0512	0.0627
0.0297	0.0401	0.0512	0.0753
0.0297	0.0401	0.0512	0.0880
0.0297	0.0401	0.0512	0.1011
0.1146	0.1284	0.1436	0.1595
0.1146	0.1284	0.1436	0.1767
0.1146	0.1284	0.1436	0.1999
0.1146	0.1284	0.1436	0.2260
0.2611	0.3008	0.3499	0.4154
0.2611	0.3008	0.3499	0.4891
0.2611	0.3008	0.3499	0.6163
0.2611	0.3008	0.3499	0.8141
1.1529	1.3911	1.5790	1.6734
1.1529	1.3911	1.5790	1.7561
1.1529	1.3911	1.5790	1.8155
1.1529	1.3911	1.5790	1.8628
1.9041	1.9342	1.9619	1.9848
1.9041	1.9342	1.9619	2.0032
1.9041	1.9342	1.9619	2.0193
1.9041	1.9342	1.9619	2.0338
2.0474	2.0594	2.0708	2.0819
2.0474	2.0594	2.0708	2.0926
2.0474	2.0594	2.0708	2.1015
2.0474	2.0594	2.0708	2.1065
2.1113	2.1162	2.1207	2.1251
2.1113	2.1162	2.1207	2.1295
2.1113	2.1162	2.1207	2.1338
2.1113	2.1162	2.1207	2.1380
2.1420	2.1459	2.1498	2.1536
2.1420	2.1459	2.1498	2.1574
2.1420	2.1459	2.1498	2.1610
2.1420	2.1459	2.1498	2.1645
2.1680	2.1715	2.1749	2.1781
2.1680	2.1715	2.1749	2.1814
2.1680	2.1715	2.1749	2.1845
2.1680	2.1715	2.1749	2.1877
2.1908	2.1938	2.1968	2.1998
2.1908	2.1938	2.1968	2.2028
2.1908	2.1938	2.1968	2.2057
2.1908	2.1938	2.1968	2.2086
2.2114	2.2142	2.2170	2.2197
2.2114	2.2142	2.2170	2.2224
2.2114	2.2142	2.2170	2.2251
2.2114	2.2142	2.2170	2.2278
2.2304	2.2330	2.2356	2.2381
2.2304	2.2330	2.2356	2.2406
2.2304	2.2330	2.2356	2.2431
2.2304	2.2330	2.2356	2.2456
2.2480	2.2504	2.2528	2.2552
2.2480	2.2504	2.2528	2.2575
2.2480	2.2504	2.2528	2.2599
2.2480	2.2504	2.2528	2.2622
2.2645	2.2667	2.2690	2.2712
2.2645	2.2667	2.2690	2.2734
2.2645	2.2667	2.2690	2.2756
2.2645	2.2667	2.2690	2.2777
2.2799	2.2820	2.2841	2.2862
2.2799	2.2820	2.2841	2.2883
2.2799	2.2820	2.2841	2.2903
2.2799	2.2820	2.2841	2.2924
2.2944	2.2964	2.2984	2.3004
2.2944	2.2964	2.2984	2.3023
2.2944	2.2964	2.2984	2.3043
2.2944	2.2964	2.2984	2.3062
2.3081	2.3100	2.3109	2.3118
2.3081	2.3100	2.3109	2.3127
2.3081	2.3100	2.3109	2.3137
2.3081	2.3100	2.3109	2.3146
2.3155	2.3164	2.3173	2.3182
2.3155	2.3164	2.3173	2.3192
2.3155	2.3164	2.3173	2.3201
2.3155	2.3164	2.3173	2.3210
2.3219	2.3228	2.3238	2.3247
2.3219	2.3228	2.3238	2.3256
2.3219	2.3228	2.3238	2.3265
2.3219	2.3228	2.3238	2.3274
2.3283	2.3293	2.3302	2.3311
2.3283	2.3293	2.3302	2.3320
2.3283	2.3293	2.3302	2.3329
2.3283	2.3293	2.3302	2.3338
2.3348	2.3357	2.3366	2.3375
2.3348	2.3357	2.3366	2.3384
2.3348	2.3357	2.3366	2.3393
2.3348	2.3357	2.3366	2.3403
2.3412	2.3421	2.3430	2.3439
2.3412	2.3421	2.3430	2.3448
2.3412	2.3421	2.3430	2.3458
2.3412	2.3421	2.3430	2.3467
2.3476	2.3485	2.3494	2.3503
2.3476	2.3485	2.3494	2.3513
2.3476	2.3485	2.3494	2.3522
2.3476	2.3485	2.3494	2.3531
2.3540	2.3549	2.3558	2.3568
2.3540	2.3549	2.3558	2.3577
2.3540	2.3549	2.3558	2.3586
2.3540	2.3549	2.3558	2.3595
2.3604	2.3613	2.3623	2.3632
2.3604	2.3613	2.3623	2.3641
2.3604	2.3613	2.3623	2.3650
2.3604	2.3613	2.3623	2.3659
2.3668	2.3678	2.3687	2.3696
2.3668	2.3678	2.3687	2.3705
2.3668	2.3678	2.3687	2.3714
2.3668	2.3678	2.3687	2.3723
2.3733	2.3742	2.3751	2.3760
2.3733	2.3742	2.3751	2.3769
2.3733	2.3742	2.3751	2.3778
2.3733	2.3742	2.3751	2.3788
2.3797	2.3806	2.3815	2.3824
2.3797	2.3806	2.3815	2.3833
2.3797	2.3806	2.3815	2.3843
2.3797	2.3806	2.3815	2.3852
2.3861	2.3870	2.3879	2.3888
2.3861	2.3870	2.3879	2.3898
2.3861	2.3870	2.3879	2.3907
2.3861	2.3870	2.3879	2.3916
2.3925	2.3934	2.3943	2.3953
2.3925	2.3934	2.3943	2.3962
2.3925	2.3934	2.3943	2.3971
2.3925	2.3934	2.3943	2.3980
2.3989	2.3998	2.4008	2.4017
2.3989	2.3998	2.4008	2.4026
2.3989	2.3998	2.4008	2.4035
2.3989	2.3998	2.4008	2.4044
2.4053	2.4063	2.4072	2.4081
2.4053	2.4063	2.4072	2.4090
2.4053	2.4063	2.4072	2.4099
2.4053	2.4063	2.4072	2.4108
2.4118	2.4127	2.4136	2.4145
2.4118	2.4127	2.4136	2.4154
2.4118	2.4127	2.4136	2.4163
2.4118	2.4127	2.4136	2.4173
2.4182	2.4191	2.4200	2.4209
2.4182	2.4191	2.4200	2.4218
2.4182	2.4191	2.4200	2.4228
2.4182	2.4191	2.4200	2.4237
2.4246	2.4255	2.4264	2.4273
2.4246	2.4255	2.4264	2.4283
2.4246	2.4255	2.4264	2.4292
2.4246	2.4255	2.4264	2.4301
2.4310	2.4319	2.4328	2.4338
2.4310	2.4319	2.4328	2.4347
2.4310	2.4319	2.4328	2.4356
2.4310	2.4319	2.4328	2.4365
2.4374	2.4383	2.4393	2.4402
2.4374	2.4383	2.4393	2.4411
2.4374	2.4383	2.4393	2.4420
2.4374	2.4383	2.4393	2.4429
2.4438	2.4448	2.4457	2.4466
2.4438	2.4448	2.4457	2.4475
2.4438	2.4448	2.4457	2.4484
2.4438	2.4448	2.4457	2.4493
2.4503	2.4512	2.4521	2.4530
2.4503	2.4512	2.4521	2.4539
2.4503	2.4512	2.4521	2.4548
2.4503	2.4512	2.4521	2.4558

2.4567	2.4576	2.4585	2.4594	2.4603	2.4613	2.4622
2.4631	2.4640	2.4649	2.4658	2.4668	2.4677	2.4686
2.4695	2.4704	2.4713	2.4723	2.4732	2.4741	2.4750
2.4759	2.4768	2.4778	2.4787	2.4796	2.4805	2.4814
2.4823	2.4833	2.4842	2.4851	2.4860	2.4869	2.4878
2.4888	2.4897	2.4906	2.4915	2.4924	2.4933	2.4943
2.4952	2.4961	2.4970	2.4979	2.4988	2.4998	2.5007
2.5016	2.5025	2.5034	2.5043	2.5053	2.5062	2.5071
2.5080	2.5089	2.5098	2.5108	2.5117	2.5126	2.5135
2.5144	2.5153	2.5163	2.5172	2.5181	2.5190	2.5199
2.5208	2.5218	2.5227	2.5236	2.5245	2.5254	2.5263
2.5273	2.5282	2.5291	2.5300	2.5309	2.5318	2.5328
2.5337	2.5346	2.5355	2.5364	2.5373	2.5383	2.5392
2.5401	2.5410	2.5419	2.5428	2.5438	2.5447	2.5456
2.5465	2.5474	2.5483	2.5493	2.5502	2.5511	2.5520
2.5529	2.5538	2.5548	2.5557	2.5566	2.5575	2.5584
2.5593	2.5603	2.5612	2.5621	2.5630	2.5639	2.5648
2.5658	2.5667	2.5676	2.5685	2.5694	2.5703	2.5713
2.5722	2.5731	2.5740	2.5749	2.5758	2.5768	2.5777
2.5786	2.5795	2.5804	2.5813	2.5823	2.5832	2.5841
2.5850	2.5859	2.5868	2.5878	2.5887	2.5896	2.5905
2.5914	2.5923	2.5933	2.5942	2.5951	2.5960	2.5969
2.5978	2.5988	2.5997	2.6006	2.6015	2.6024	2.6033
2.6043	2.6052	2.6061	2.6070	2.6079	2.6088	2.6098
2.6107	2.6116	2.6125	2.6134	2.6143	2.6153	2.6162
2.6171	2.6180	2.6189	2.6198	2.6208	2.6217	2.6226
2.6235	2.6244	2.6253	2.6263	2.6272	2.6281	2.6290
2.6299	2.6308	2.6318	2.6327	2.6336	2.6345	2.6354
2.6363	2.6373	2.6382	2.6391	2.6400		

*S BASIN 100
COMPUTE NM HYD

ID=1 HYD NO=101 AREA= 0.0553 SQ MI
PER A=0 PER B=80 PER C=20 PER D=0
TP=-0.1333 HR MASS RAIN=-1

K = 0.126676HR TP = 0.133300HR K/TP RATIO = 0.950309 SHAPE CONSTANT, N = 3.719192
UNIT PEAK = 139.39 CFS UNIT VOLUME = 1.001 B = 336.00 P60 = 1.8100
AREA = 0.055300 SQ MI IA = 0.47000 INCHES INF = 1.16600 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.050000

PRINT HYD ID=1 CODE=1

PARTIAL HYDROGRAPH 101.00

RUNOFF VOLUME = 0.86399 INCHES = 2.5482 ACRE-FEET
PEAK DISCHARGE RATE = 88.01 CFS AT 1.500 HOURS BASIN AREA = 0.0553 SQ. MI.

FINISH

NORMAL PROGRAM FINISH END TIME (HR:MIN:SEC) = 11:59:33

FOR STANDPIPE
SIZING