

AHYMO PROGRAM (AHYMO-S4) - Version: S4.01a - Rel: 01a
 RUN DATE (MON/DAY/YR) = 12/05/2023
 START TIME (HR:MIN:SEC) = 12:03:44 USER NO.= AHYMO_Temp_User:20122010
 INPUT FILE = PROJECTS\2200-2299\2290\CALCS\AHYMO UNITS 3&4 ESC STUDY\2591-2yr storm study.DAT

*S ASPIRE UNITS 3&4
 *S CONSTRUCTION CONDITIONS
 *S 2-YR, 24-HR STORM
 *S 2591-2yr 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=0.711
 RAIN SIX=0.992 RAIN DAY=1.23 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	0.0019	0.0038	0.0058	0.0081	0.0103	0.0129
0.0166	0.0226	0.0289	0.0355	0.0426	0.0498	0.0572
0.0648	0.0725	0.0809	0.0897	0.0991	0.1091	0.1194
0.1332	0.1488	0.1681	0.1938	0.2227	0.2727	0.3504
0.4835	0.5771	0.6508	0.6879	0.7204	0.7438	0.7624
0.7785	0.7904	0.8013	0.8103	0.8192	0.8281	0.8362
0.8438	0.8506	0.8571	0.8635	0.8696	0.8746	0.8774
0.8801	0.8828	0.8853	0.8877	0.8902	0.8925	0.8949
0.8971	0.8993	0.9015	0.9036	0.9057	0.9077	0.9097
0.9116	0.9136	0.9155	0.9173	0.9191	0.9209	0.9227
0.9244	0.9261	0.9278	0.9295	0.9311	0.9328	0.9344
0.9360	0.9376	0.9392	0.9407	0.9422	0.9437	0.9452
0.9467	0.9482	0.9497	0.9511	0.9525	0.9539	0.9553
0.9567	0.9581	0.9594	0.9608	0.9621	0.9634	0.9647
0.9660	0.9673	0.9686	0.9699	0.9711	0.9724	0.9736
0.9748	0.9760	0.9772	0.9784	0.9796	0.9808	0.9819
0.9831	0.9842	0.9854	0.9865	0.9876	0.9887	0.9898
0.9909	0.9920	0.9931	0.9942	0.9953	0.9963	0.9974
0.9985	0.9996	1.0006	1.0017	1.0028	1.0038	1.0049
1.0059	1.0070	1.0081	1.0091	1.0102	1.0112	1.0123
1.0133	1.0143	1.0154	1.0164	1.0174	1.0185	1.0195
1.0205	1.0216	1.0226	1.0236	1.0246	1.0256	1.0266
1.0276	1.0287	1.0297	1.0307	1.0317	1.0327	1.0337
1.0347	1.0356	1.0366	1.0376	1.0386	1.0396	1.0406
1.0415	1.0425	1.0435	1.0445	1.0454	1.0464	1.0474
1.0483	1.0493	1.0502	1.0512	1.0521	1.0531	1.0540
1.0550	1.0559	1.0569	1.0578	1.0587	1.0597	1.0606
1.0615	1.0625	1.0634	1.0643	1.0652	1.0661	1.0670
1.0680	1.0689	1.0698	1.0707	1.0716	1.0725	1.0734
1.0743	1.0752	1.0761	1.0769	1.0778	1.0787	1.0796
1.0805	1.0813	1.0822	1.0831	1.0840	1.0848	1.0857
1.0866	1.0874	1.0883	1.0891	1.0900	1.0908	1.0917
1.0925	1.0934	1.0942	1.0950	1.0959	1.0967	1.0975
1.0984	1.0992	1.1000	1.1008	1.1017	1.1025	1.1033
1.1041	1.1049	1.1057	1.1065	1.1073	1.1081	1.1089
1.1097	1.1105	1.1113	1.1121	1.1129	1.1137	1.1144
1.1152	1.1160	1.1168	1.1175	1.1183	1.1191	1.1198
1.1206	1.1213	1.1221	1.1229	1.1236	1.1244	1.1251
1.1259	1.1266	1.1273	1.1281	1.1288	1.1295	1.1303
1.1310	1.1317	1.1325	1.1332	1.1339	1.1346	1.1353

1.1360	1.1367	1.1374	1.1382	1.1389	1.1396	1.1403
1.1409	1.1416	1.1423	1.1430	1.1437	1.1444	1.1451
1.1457	1.1464	1.1471	1.1478	1.1484	1.1491	1.1498
1.1504	1.1511	1.1517	1.1524	1.1530	1.1537	1.1543
1.1550	1.1556	1.1563	1.1569	1.1575	1.1582	1.1588
1.1594	1.1600	1.1607	1.1613	1.1619	1.1625	1.1631
1.1637	1.1644	1.1650	1.1656	1.1662	1.1668	1.1674
1.1680	1.1685	1.1691	1.1697	1.1703	1.1709	1.1715
1.1720	1.1726	1.1732	1.1738	1.1743	1.1749	1.1755
1.1760	1.1766	1.1771	1.1777	1.1782	1.1788	1.1793
1.1799	1.1804	1.1810	1.1815	1.1820	1.1826	1.1831
1.1836	1.1841	1.1847	1.1852	1.1857	1.1862	1.1867
1.1872	1.1877	1.1882	1.1887	1.1892	1.1897	1.1902
1.1907	1.1912	1.1917	1.1922	1.1927	1.1932	1.1936
1.1941	1.1946	1.1951	1.1955	1.1960	1.1965	1.1969
1.1974	1.1978	1.1983	1.1987	1.1992	1.1996	1.2001
1.2005	1.2010	1.2014	1.2018	1.2023	1.2027	1.2031
1.2036	1.2040	1.2044	1.2048	1.2052	1.2056	1.2061
1.2065	1.2069	1.2073	1.2077	1.2081	1.2085	1.2089
1.2093	1.2097	1.2100	1.2104	1.2108	1.2112	1.2116
1.2119	1.2123	1.2127	1.2130	1.2134	1.2138	1.2141
1.2145	1.2148	1.2152	1.2156	1.2159	1.2162	1.2166
1.2169	1.2173	1.2176	1.2179	1.2183	1.2186	1.2189
1.2192	1.2196	1.2199	1.2202	1.2205	1.2208	1.2211
1.2214	1.2218	1.2221	1.2224	1.2227	1.2229	1.2232
1.2235	1.2238	1.2241	1.2244	1.2247	1.2249	1.2252
1.2255	1.2258	1.2260	1.2263	1.2266	1.2268	1.2271
1.2273	1.2276	1.2278	1.2281	1.2283	1.2286	1.2288
1.2291	1.2293	1.2295	1.2298	1.2300		

*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 = 0.143787HR TP = 0.133300HR K/TP RATIO = 1.078674 SHAPE CONSTANT, N = 3.274773
UNIT PEAK = 125.91 CFS UNIT VOLUME = 0.9999 B = 303.51 P60 = .71100
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

= 7,488 CF
RETENTION
REQUIRED

RUNOFF VOLUME = 0.05829 INCHES = 0.1719 ACRE-FEET
PEAK DISCHARGE RATE = 6.92 CFS AT 1.550 HOURS BASIN AREA = 0.0553 SQ. MI.

FINISH

NORMAL PROGRAM FINISH END TIME (HR:MIN:SEC) = 12:03:44