

0 (s16.67h8.5v0T0418D

AHYMO PROGRAM (AHYMO_97) -

- Version: 1997.02d

RUN DATE (MON/DAY/YR) = 06/21/2013

START TIME (HR:MIN:SEC) = 08:59:28

USER NO. = AHYMO-I-9702dGoodwinm-AH

INPUT FILE = C:\PROGRA-1\AHYMO_97\LOVELA-1.DAT

*S

Lovelace RRI Q

*S

Undeveloped

*S

100 YEAR 6 HOUR STORM EVENT

*S

FILE: Lovelace RRI

START

LAST REVISED: 5-22-13

TIME=0.0 HR PUNCH CODE=0 PRINT LINES=-6

LOCATION

NEW MEXICO

State of New Mexico soil infiltration values (LAND FACTORS) used for computations.

Land Treatment	Initial Abstr.(in)	Unif. Infiltr.(in/hour)
A	0.65	1.67
B	0.50	1.25
C	0.35	0.83
D	0.10	0.04

RAINFALL

TYPE=2 RAIN QUARTER=0.0
RAIN ONE=2.14 IN RAIN SIX=2.6 IN
RAIN DAY=3.1 IN DT=0.0333 HRS

COMPUTED 24-HOUR RAINFALL DISTRIBUTION BASED ON NOAA ATLAS 2 - PEAK AT 1.40 HR.
DT = .033300 HOURS END TIME = 19.946700 HOURS

.0000	.0027	.0055	.0084	.0113	.0143	.0173
.0204	.0236	.0268	.0302	.0336	.0371	.0408
.0445	.0483	.0522	.0563	.0605	.0648	.0693
.0740	.0788	.0838	.0891	.0945	.1002	.1062
.1124	.1191	.1260	.1320	.1383	.1450	.1590
.1909	.2402	.3112	.4081	.5356	.6983	.9010
1.1485	1.3861	1.4836	1.5656	1.6385	1.7047	1.7657
1.8223	1.8752	1.9248	1.9714	2.0154	2.0570	2.0963
2.1336	2.1689	2.2024	2.2343	2.2645	2.2733	2.2803
2.2871	2.2935	2.2997	2.3057	2.3114	2.3169	2.3223
2.3274	2.3324	2.3373	2.3420	2.3466	2.3511	2.3555
2.3598	2.3640	2.3680	2.3720	2.3760	2.3798	2.3835
2.3872	2.3908	2.3944	2.3979	2.4013	2.4047	2.4080
2.4113	2.4145	2.4176	2.4208	2.4238	2.4269	2.4298
2.4328	2.4357	2.4386	2.4414	2.4442	2.4469	2.4497
2.4524	2.4550	2.4577	2.4603	2.4628	2.4654	2.4679
2.4704	2.4728	2.4753	2.4777	2.4801	2.4824	2.4848
2.4871	2.4894	2.4917	2.4939	2.4962	2.4984	2.5006
2.5027	2.5049	2.5070	2.5092	2.5113	2.5134	2.5154
2.5175	2.5195	2.5215	2.5235	2.5255	2.5275	2.5295

2.5314	2.5333	2.5353	2.5372	2.5391	2.5409	2.5428
2.5446	2.5465	2.5483	2.5501	2.5519	2.5537	2.5555
2.5573	2.5590	2.5608	2.5625	2.5642	2.5659	2.5676
2.5693	2.5710	2.5727	2.5743	2.5760	2.5776	2.5793
2.5809	2.5825	2.5841	2.5857	2.5873	2.5889	2.5905
2.5920	2.5936	2.5951	2.5967	2.5982	2.5997	2.6012
2.6026	2.6040	2.6054	2.6068	2.6083	2.6097	2.6111
2.6125	2.6139	2.6153	2.6166	2.6180	2.6194	2.6208
2.6222	2.6235	2.6249	2.6263	2.6276	2.6290	2.6304
2.6317	2.6331	2.6344	2.6358	2.6371	2.6384	2.6398
2.6411	2.6424	2.6438	2.6451	2.6464	2.6477	2.6491
2.6504	2.6517	2.6530	2.6543	2.6556	2.6569	2.6582
2.6595	2.6608	2.6621	2.6633	2.6646	2.6659	2.6672
2.6685	2.6697	2.6710	2.6723	2.6735	2.6748	2.6760
2.6773	2.6786	2.6798	2.6811	2.6823	2.6835	2.6848
2.6860	2.6872	2.6885	2.6897	2.6909	2.6922	2.6934
2.6946	2.6958	2.6970	2.6982	2.6995	2.7007	2.7019
2.7031	2.7043	2.7055	2.7067	2.7079	2.7091	2.7102
2.7114	2.7126	2.7138	2.7150	2.7161	2.7173	2.7185
2.7197	2.7208	2.7220	2.7232	2.7243	2.7255	2.7266
2.7278	2.7289	2.7301	2.7312	2.7324	2.7335	2.7347
2.7358	2.7370	2.7381	2.7392	2.7403	2.7415	2.7426
2.7437	2.7449	2.7460	2.7471	2.7482	2.7493	2.7504
2.7515	2.7527	2.7538	2.7549	2.7560	2.7571	2.7582
2.7593	2.7604	2.7614	2.7625	2.7636	2.7647	2.7658
2.7669	2.7680	2.7690	2.7701	2.7712	2.7723	2.7733
2.7744	2.7755	2.7765	2.7776	2.7787	2.7797	2.7808
2.7818	2.7829	2.7840	2.7850	2.7861	2.7871	2.7881
2.7892	2.7902	2.7913	2.7923	2.7934	2.7944	2.7954
2.7965	2.7975	2.7985	2.7995	2.8006	2.8016	2.8026
2.8036	2.8046	2.8057	2.8067	2.8077	2.8087	2.8097
2.8107	2.8117	2.8127	2.8137	2.8147	2.8157	2.8167
2.8177	2.8187	2.8197	2.8207	2.8217	2.8227	2.8237
2.8247	2.8257	2.8266	2.8276	2.8286	2.8296	2.8306
2.8315	2.8325	2.8335	2.8344	2.8354	2.8364	2.8374
2.8383	2.8393	2.8402	2.8412	2.8422	2.8431	2.8441
2.8450	2.8460	2.8469	2.8479	2.8488	2.8498	2.8507
2.8517	2.8526	2.8536	2.8545	2.8554	2.8564	2.8573
2.8582	2.8592	2.8601	2.8610	2.8620	2.8629	2.8638
2.8647	2.8657	2.8666	2.8675	2.8684	2.8693	2.8703
2.8712	2.8721	2.8730	2.8739	2.8748	2.8757	2.8766
2.8775	2.8785	2.8794	2.8803	2.8812	2.8821	2.8830
2.8839	2.8848	2.8856	2.8865	2.8874	2.8883	2.8892
2.8901	2.8910	2.8919	2.8928	2.8936	2.8945	2.8954
2.8963	2.8972	2.8980	2.8989	2.8998	2.9007	2.9015
2.9024	2.9033	2.9041	2.9050	2.9059	2.9067	2.9076
2.9085	2.9093	2.9102	2.9111	2.9119	2.9128	2.9136
2.9145	2.9153	2.9162	2.9170	2.9179	2.9187	2.9196
2.9204	2.9213	2.9221	2.9230	2.9238	2.9246	2.9255
2.9263	2.9272	2.9280	2.9288	2.9297	2.9305	2.9313
2.9322	2.9330	2.9338	2.9347	2.9355	2.9363	2.9371
2.9380	2.9388	2.9396	2.9404	2.9412	2.9421	2.9429

2.9437	2.9445	2.9453	2.9461	2.9469	2.9478	2.9486
2.9494	2.9502	2.9510	2.9518	2.9526	2.9534	2.9542
2.9550	2.9558	2.9566	2.9574	2.9582	2.9590	2.9598
2.9606	2.9614	2.9622	2.9630	2.9638	2.9646	2.9653
2.9661	2.9669	2.9677	2.9685	2.9693	2.9701	2.9708
2.9716	2.9724	2.9732	2.9740	2.9747	2.9755	2.9763
2.9771	2.9778	2.9786	2.9794	2.9802	2.9809	2.9817
2.9825	2.9832	2.9840	2.9848	2.9855	2.9863	2.9871
2.9878	2.9886	2.9893	2.9901	2.9909	2.9916	2.9924
2.9931	2.9939	2.9946	2.9954	2.9961	2.9969	2.9977
2.9984	2.9991	2.9999	3.0006	3.0014	3.0021	3.0029
3.0036	3.0044	3.0051	3.0059	3.0066	3.0073	3.0081
3.0088	3.0095	3.0103	3.0110	3.0117	3.0125	3.0132
3.0139	3.0147	3.0154	3.0161	3.0169		

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*S DEVELOPED CONDITIONS

*S TOTAL SITE AREA = 0.1536 ACRES

COMPUTE NM HYD ID=1 HYD NO=101 AREA= 0.0002 SQ MI
PER A=0 PER B=0 PER C=98 PER D=2
TP=-.1333 HR MASS RAIN=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420
UNIT PEAK = .15792E-01CFS UNIT VOLUME = .8872 B = 526.28 P60 = 2.1400
AREA = .000004 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033300

K = .108912HR TP = .133300HR K/TP RATIO = .817047 SHAPE CONSTANT, N = 4.373949
UNIT PEAK = .55782 CFS UNIT VOLUME = .9760 B = 379.38 P60 = 2.1400
AREA = .000196 SQ MI IA = .35000 INCHES INF = .83000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033300

PRINT HYD ID=1 CODE=1

PARTIAL HYDROGRAPH 101.00

RUNOFF VOLUME = 1.31945 INCHES = .0141 ACRE-FEET
PEAK DISCHARGE RATE = .46 CFS AT 1.499 HOURS BASIN AREA = .0002 SQ. MI.

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*S Lovelace RRI Q

*S Developed

*S 100 YEAR 24 HOUR STORM EVENT

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*S
START
LOCATION
NEW MEXICO
TIME=0.0 HR PUNCH CODE=0 PRINT LINES=-6
LAST REVISED: 5-22-13
FILE: Lovelace RRI

State of New Mexico soil infiltration values (LAND FACTORS) used for computations.
Land Treatment Initial Abstr. (in) Unif. Infiltr. (in/hour)
A 0.65 1.67
B 0.50 1.25
C 0.35 0.83
D 0.10 0.04

RAINFALL
TYPE=2 RAIN QUARTER=0.0
RAIN ONE=2.14 IN RAIN SIX=2.6 IN
RAIN DAY=3.1 IN DT=0.0333 HRS

COMPUTED 24-HOUR RAINFALL DISTRIBUTION BASED ON NOAA ATLAS 2 - PEAK AT 1.40 HR.
DT = .033300 HOURS END TIME = 19.946700 HOURS
.0000 .0027 .0055 .0084 .0113 .0143 .0173
.0204 .0236 .0268 .0302 .0336 .0371 .0408
.0445 .0483 .0522 .0563 .0605 .0648 .0693
.0740 .0788 .0838 .0891 .0945 .1002 .1062
.1124 .1191 .1260 .1320 .1383 .1450 .1590
.1909 .2402 .3112 .4081 .5356 .6983 .9010
1.1485 1.3861 1.4836 1.5656 1.6385 1.7047 1.7657
1.8223 1.8752 1.9248 1.9714 2.0154 2.0570 2.0963
2.1336 2.1689 2.2024 2.2343 2.2645 2.2733 2.2803
2.2871 2.2935 2.2997 2.3057 2.3114 2.3169 2.3223
2.3274 2.3324 2.3373 2.3420 2.3466 2.3511 2.3555
2.3598 2.3640 2.3680 2.3720 2.3760 2.3798 2.3835
2.3872 2.3908 2.3944 2.3979 2.4013 2.4047 2.4080
2.4113 2.4145 2.4176 2.4208 2.4238 2.4269 2.4298
2.4328 2.4357 2.4386 2.4414 2.4442 2.4469 2.4497
2.4524 2.4550 2.4577 2.4603 2.4628 2.4654 2.4679
2.4704 2.4728 2.4753 2.4777 2.4801 2.4824 2.4848
2.4871 2.4894 2.4917 2.4939 2.4962 2.4984 2.5006
2.5027 2.5049 2.5070 2.5092 2.5113 2.5134 2.5154
2.5175 2.5195 2.5215 2.5235 2.5255 2.5275 2.5295
2.5314 2.5333 2.5353 2.5372 2.5391 2.5409 2.5428
2.5446 2.5465 2.5483 2.5501 2.5519 2.5537 2.5555
2.5573 2.5590 2.5608 2.5625 2.5642 2.5659 2.5676
2.5693 2.5710 2.5727 2.5743 2.5760 2.5776 2.5793
2.5809 2.5825 2.5841 2.5857 2.5873 2.5889 2.5905
2.5920 2.5936 2.5951 2.5967 2.5982 2.5997 2.6012
2.6026 2.6040 2.6054 2.6068 2.6083 2.6097 2.6111
2.6125 2.6139 2.6153 2.6166 2.6180 2.6194 2.6208
2.6222 2.6235 2.6249 2.6263 2.6276 2.6290 2.6304
2.6317 2.6331 2.6344 2.6358 2.6371 2.6384 2.6398
2.6411 2.6424 2.6438 2.6451 2.6464 2.6477 2.6491
2.6504 2.6517 2.6530 2.6543 2.6556 2.6569 2.6582
2.6595 2.6608 2.6621 2.6633 2.6646 2.6659 2.6672
2.6685 2.6697 2.6710 2.6723 2.6735 2.6748 2.6760

2.6773	2.6786	2.6798	2.6811	2.6823	2.6835	2.6848
2.6860	2.6872	2.6885	2.6897	2.6909	2.6922	2.6934
2.6946	2.6958	2.6970	2.6982	2.6995	2.7007	2.7019
2.7031	2.7043	2.7055	2.7067	2.7079	2.7091	2.7102
2.7114	2.7126	2.7138	2.7150	2.7161	2.7173	2.7185
2.7197	2.7208	2.7220	2.7232	2.7243	2.7255	2.7266
2.7278	2.7289	2.7301	2.7312	2.7324	2.7335	2.7347
2.7358	2.7370	2.7381	2.7392	2.7403	2.7415	2.7426
2.7437	2.7449	2.7460	2.7471	2.7482	2.7493	2.7504
2.7515	2.7527	2.7538	2.7549	2.7560	2.7571	2.7582
2.7593	2.7604	2.7614	2.7625	2.7636	2.7647	2.7658
2.7669	2.7680	2.7690	2.7701	2.7712	2.7723	2.7733
2.7744	2.7755	2.7765	2.7776	2.7787	2.7797	2.7808
2.7818	2.7829	2.7840	2.7850	2.7861	2.7871	2.7881
2.7892	2.7902	2.7913	2.7923	2.7934	2.7944	2.7954
2.7965	2.7975	2.7985	2.7995	2.8006	2.8016	2.8026
2.8036	2.8046	2.8057	2.8067	2.8077	2.8087	2.8097
2.8107	2.8117	2.8127	2.8137	2.8147	2.8157	2.8167
2.8177	2.8187	2.8197	2.8207	2.8217	2.8227	2.8237
2.8247	2.8257	2.8266	2.8276	2.8286	2.8296	2.8306
2.8315	2.8325	2.8335	2.8344	2.8354	2.8364	2.8374
2.8383	2.8393	2.8402	2.8412	2.8422	2.8431	2.8441
2.8450	2.8460	2.8469	2.8479	2.8488	2.8498	2.8507
2.8517	2.8526	2.8536	2.8545	2.8554	2.8564	2.8573
2.8582	2.8592	2.8601	2.8610	2.8620	2.8629	2.8638
2.8647	2.8657	2.8666	2.8675	2.8684	2.8693	2.8703
2.8712	2.8721	2.8730	2.8739	2.8748	2.8757	2.8766
2.8775	2.8785	2.8794	2.8803	2.8812	2.8821	2.8830
2.8839	2.8848	2.8856	2.8865	2.8874	2.8883	2.8892
2.8901	2.8910	2.8919	2.8928	2.8936	2.8945	2.8954
2.8963	2.8972	2.8980	2.8989	2.8998	2.9007	2.9015
2.9024	2.9033	2.9041	2.9050	2.9059	2.9067	2.9076
2.9085	2.9093	2.9102	2.9111	2.9119	2.9128	2.9136
2.9145	2.9153	2.9162	2.9170	2.9179	2.9187	2.9196
2.9204	2.9213	2.9221	2.9230	2.9238	2.9246	2.9255
2.9263	2.9272	2.9280	2.9288	2.9297	2.9305	2.9313
2.9322	2.9330	2.9338	2.9347	2.9355	2.9363	2.9371
2.9380	2.9388	2.9396	2.9404	2.9412	2.9421	2.9429
2.9437	2.9445	2.9453	2.9461	2.9469	2.9478	2.9486
2.9494	2.9502	2.9510	2.9518	2.9526	2.9534	2.9542
2.9550	2.9558	2.9566	2.9574	2.9582	2.9590	2.9598
2.9606	2.9614	2.9622	2.9630	2.9638	2.9646	2.9653
2.9661	2.9669	2.9677	2.9685	2.9693	2.9701	2.9708
2.9716	2.9724	2.9732	2.9740	2.9747	2.9755	2.9763
2.9771	2.9778	2.9786	2.9794	2.9802	2.9809	2.9817
2.9825	2.9832	2.9840	2.9848	2.9855	2.9863	2.9871
2.9878	2.9886	2.9893	2.9901	2.9909	2.9916	2.9924
2.9931	2.9939	2.9946	2.9954	2.9961	2.9969	2.9977
2.9984	2.9991	2.9999	3.0006	3.0014	3.0021	3.0029
3.0036	3.0044	3.0051	3.0059	3.0066	3.0073	3.0081
3.0088	3.0095	3.0103	3.0110	3.0117	3.0125	3.0132
3.0139	3.0147	3.0154	3.0161	3.0169		

*S DEVELOPED CONDITIONS
*S TOTAL SITE AREA = 0.1536 ACRES

COMPUTE NM HYD ID=2 HYD NO=102 AREA= 0.0002 SQ MI
PER A=0 PER B=0 PER C=22 PER D=78
TP=-.1333 HR MASS RAIN=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420
UNIT PEAK = .61590 CFS UNIT VOLUME = .9814 B = 526.28 P60 = 2.1400
AREA = .000156 SQ MT IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033300

K = .108912HR TP = .133300HR K/TP RATIO = .817047 SHAPE CONSTANT, N = 4.373949
UNIT PEAK = .12523 CFS UNIT VOLUME = .8990 B = 379.38 P60 = 2.1400
AREA = .000044 SQ MT IA = .35000 INCHES INF = .83000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033300

PRINT HYD ID=2 CODE=1

PARTIAL HYDROGRAPH 102.00

RUNOFF VOLUME = 2.44309 INCHES = .0261 ACRE-FEET
PEAK DISCHARGE RATE = .62 CFS AT 1.499 HOURS BASIN AREA = .0002 SQ. MI.

FINISH

NORMAL PROGRAM FINISH END TIME (HR:MIN:SEC) = 08:59:28

(s0p10h4099Tl6D