PRELIMINARY HYDROLOGY REPORT

for

TTM 38265

Located in the City of Moreno Valley
County of Riverside

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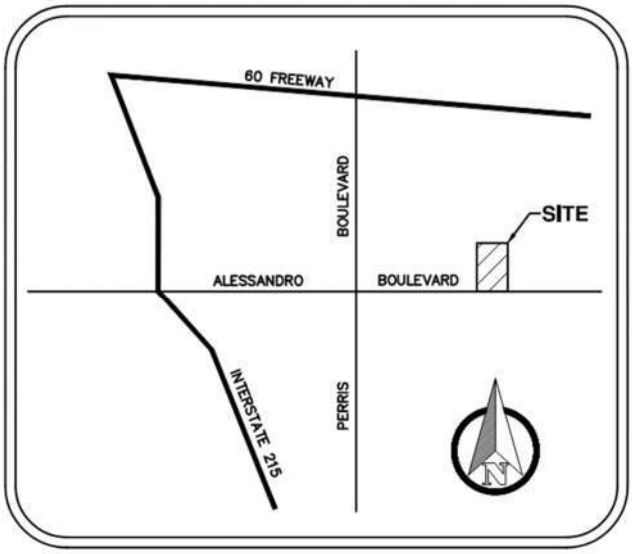
1. Purpose

The purpose of this study is to substantiate the hydrology design of TTM 38265. Adkan Engineers has prepared this study to ensure that adequate size and proper operation of drainage facilities are incorporated into the Post-Development project site.

2. Project Description

TTM 38265 is located in the City of Moreno Valley North of Alessandro Blvd, East of Pegasus Way, South of Bay Avenue and West of Nason Street. The planned development will consist of 236 lots, street improvements, community park and 2 onsite stormwater treatment area (Bioretention Basin), for water quality.

A. Vicinity Map



VICINITY MAP
N.T.S.

3. Pre-Development Hydrology

The site is vacant and runoff flows from the site and offsite flow towards the southwest corner of the site. There is a inlet at the southwest corner of the site near Alessandro Blvd that collect the flows into Lateral J-6A1 on Alessandro Blvd that drains towards the a 48" RCP MDP Line (Line J-6) per the Moreno Master Drainage plan.

Drainage Area	
Q10 (cfs)	53.98
Q100 (cfs)	90.74
TC (min)	22.36
Acres	59.38

4. Post-Development Hydrology

Onsite flows from the north will flow towards the south west into the proposed onsite catch basins. Then the runoff will flow into 2 proposed bioretention basins for treatment prior to leaving the site. Offsite flow flowing towards the site will flow towards the south towards Alessandro Blvd. Line J-6 of the Moreno Master Drainage plan will be extended to the south east corner of the site to collect the offsite flows. Onsite flows will be collected by the proposed onsite storm drain line and will connect to Lateral J-6A1. The new Q100 (cfs) of 91.91 is less than what the existing storm drain was designed for. Sheet 17 from the Flood Control Plan DWG 4-858 has been added to the reference section at the end of this report.

Drainage Area	
Q10 (cfs)	55.65
Q100 (cfs)	91.91
TC (min)	23.33
Acres	58.69

5. Method of Analysis

The site hydrology was based upon Riverside County Flood Control and Water Conversation District Hydrology Manual, from which pertinent soil and rainfall information was obtained.

Storm flows were determined by the "RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM", Riverside County Flood Control & Water Conservation District 1978 Hydrology Manual, produced by Bondamin Engineering.

The site was also analyzed by the "SYNTHETIC UNIT HYDROLOGY METHOD COMPUTER PROGRAM", Riverside County Flood Control & Water Conservation District 1978 Hydrology Manual, produced by Bondamin Engineering.

6. Conclusion

The hydrologic calculations provided herein substantiate the design of the Post-Development project and indicate the following:

- Facilities will convey the 10 & 100 year storm events. Table 1 shows the pre-development and post-development peak flow rates for the 10-year and 100-year storm events.
- All inlets will provide emergency overflows in the event all inlets are plugged. Inlets in tract have been designed as flow by catch basins. The sump catch basins are either located at basins, in which event they will flow over the curb into the basin if the catch basins are clogged, or at the end of an alley with an open space lot for overflow, such as through open space lot F and G.
- Sufficient storage on the site will store the difference between the pre and post 2,5,10 & 100-year 1,3,6 & 24-hour storm event in order to provide the mitigation.

Therefore, it is our conclusion this project **does not** negatively impact the local community or watershed goals.

NORTH

Storm Event	Existing		Proposed		Proposed		
	cfs	volume ac.ft.	cfs	volume ac.ft.	cfs	volume ac.ft.	Depth
2yr1hr	5.033	0.0976	7.961	0.2366	0.002	0.2360	2.50
2yr3hr	1.181	0.0674	3.845	0.3446	0.003	0.3440	3.20
2yr6hr	1.160	0.0941	3.884	0.5172	0.004	0.5160	3.76
2yr24hr	0.206	0.1249	1.275	0.7747	0.094	0.7080	4.60
5yr1hr	7.653	0.1539	11.247	0.3243	0.003	0.3240	3.13
5yr3hr	2.915	0.1269	5.705	0.4665	0.004	0.4660	3.60
5yr6hr	2.463	0.1452	5.285	0.6545	0.051	0.6510	4.31
5yr24hr	0.278	0.1688	1.723	1.0468	0.256	0.9050	5.52
10yr1hr	11.384	0.2895	14.451	0.4125	0.003	0.4120	3.42
10yr3hr	5.917	0.2687	7.867	0.5890	0.004	0.5880	4.00
10yr6hr	5.253	0.2922	7.143	0.7879	0.147	0.7790	4.95
10yr24hr	0.628	0.2135	2.062	1.2527	0.398	1.0550	6.18
100yr1hr	18.974	0.5742	22.938	0.6858	0.075	0.6840	4.47
100yr3hr	10.594	0.5965	12.850	0.9560	0.290	0.9420	5.69
100yr6hr	8.952	0.6027	11.078	1.1939	0.510	1.1580	6.60
100yr24hr	2.443	0.6082	3.611	1.9608	2.511	1.3700	7.42

SOUTH

Storm Event	Existing		Proposed		Proposed		
	cfs	volume ac.ft.	cfs	volume ac.ft.	cfs	volume ac.ft.	Depth
2yr1hr	5.977	0.1157	8.970	0.2803	0.003	0.2800	2.92
2yr3hr	1.402	0.0798	4.498	0.4084	0.004	0.4080	3.69
2yr6hr	1.378	0.1115	4.548	0.6128	0.006	0.6110	4.74
2yr24hr	0.244	0.1480	1.510	0.9179	0.110	0.8380	5.70
5yr1hr	9.090	0.1823	12.688	0.3843	0.004	0.3840	3.55
5yr3hr	3.441	0.1504	6.658	0.5528	0.005	0.5520	4.45
5yr6hr	2.905	0.1720	6.169	0.7755	0.070	0.7710	5.43
5yr24hr	0.329	0.2001	2.041	1.2404	0.222	1.0840	6.60
10yr1hr	13.517	0.3430	16.350	0.4887	0.005	0.4880	4.14
10yr3hr	6.992	0.3184	9.183	0.6979	0.026	0.6970	5.13
10yr6hr	6.208	0.3463	8.351	0.9336	0.159	0.9230	6.04
10yr24hr	0.744	0.2529	2.443	1.4843	0.367	1.2710	7.21
100yr1hr	22.524	0.6803	26.002	0.8126	0.093	0.8100	5.59
100yr3hr	12.524	0.7068	15.014	1.1327	0.236	1.1200	6.72
100yr6hr	10.583	0.7142	12.965	1.4146	0.522	1.3780	7.53
100yr24hr	2.895	0.7207	4.277	2.3232	2.965	1.5190	7.89

Section 1

Pre-Development 10 & 100 year Hydrology Offsite & Onsite (Rational Method)

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                Riverside County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software,(c) 1989 - 2014 Version 9.0
        Rational Hydrology Study        Date: 07/07/22  File:ex10.out
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 *********   Hydrology Study Control Information **********

 English (in-lb) Units used in input data file

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Program License Serial Number 5006

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Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) =   10.00 Antecedent Moisture Condition = 2

2 year, 1 hour precipitation =  0.500(In.)
100 year, 1 hour precipitation =  1.200(In.)

Storm event year =  10.0
Calculated rainfall intensity data:
1 hour intensity =  0.788(In/Hr)
Slope of intensity duration curve = 0.5000


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station         1.000 to Point/Station        2.000
**** INITIAL AREA EVALUATION ****
____________________________________________________________________________
Initial area flow distance =   849.000(Ft.)
Top (of initial area) elevation =  1645.000(Ft.)
Bottom (of initial area) elevation =  1624.000(Ft.)
Difference in elevation =    21.000(Ft.)
Slope =    0.02473  s(percent)=       2.47
TC = k(0.530)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =   16.488 min.
Rainfall intensity =      1.503(In/Hr) for a    10.0 year storm
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.720
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  78.00
Pervious area fraction =  1.000; Impervious fraction =  0.000
Initial subarea runoff =      9.717(CFS)
Total initial stream area =        8.980(Ac.)
Pervious area fraction = 1.000


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Process from Point/Station         2.000 to Point/Station        3.000
**** NATURAL CHANNEL TIME + SUBAREA FLOW ADDITION ****
____________________________________________________________________________
Top of natural channel elevation =   1624.000(Ft.)
End of natural channel elevation =   1583.700(Ft.)
Length of natural channel  =  2030.000(Ft.)
Estimated mean flow rate at midpoint of channel =     36.987(CFS)
Natural valley channel type used
L.A. County flood control district formula for channel velocity:
 Velocity(ft/s) = (7 + 8(q(English Units)^.352)(slope^0.5)
Velocity using mean channel flow =   5.00(Ft/s)
Correction to map slope used on extremely rugged channels with
drops and waterfalls (Plate D-6.2)
       Normal channel slope =  0.0199
Corrected/adjusted channel slope =  0.0199
Travel time =    6.76 min.     TC =   23.25  min.
 Adding area flow to channel
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.694
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  78.00
Pervious area fraction =  1.000; Impervious fraction =  0.000
Rainfall intensity =      1.266(In/Hr) for a    10.0 year storm
Subarea runoff =     44.268(CFS) for     50.400(Ac.)
Total runoff =     53.985(CFS)       Total area =      59.380(Ac.)
End of computations, total study area =           59.38 (Ac.)
The following figures maybe used for a unit hydrograph study of the same area.
```

```
RI index for soil(AMC 2)  =  78.00
Pervious area fraction =  1.000; Impervious fraction =  0.000
Rainfall intensity =      1.266(In/Hr) for a    10.0 year storm
Subarea runoff =     44.284(CFS) for     50.400(Ac.)
Total runoff =     54.272(CFS)       Total area =      59.630(Ac.)
End of computations, total study area =           59.63 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.

Area averaged pervious area fraction(Ap) = 1.000
Area averaged RI index number =  78.0
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                Riverside County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software,(c) 1989 - 2014 Version 9.0
        Rational Hydrology Study        Date: 02/16/22  File:EX110.out
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 *********   Hydrology Study Control Information **********

 English (in-lb) Units used in input data file

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Program License Serial Number 5006

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Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) =   10.00 Antecedent Moisture Condition = 2

2 year, 1 hour precipitation =  0.500(In.)
100 year, 1 hour precipitation =  1.200(In.)

Storm event year =  10.0
Calculated rainfall intensity data:
1 hour intensity =  0.788(In/Hr)
Slope of intensity duration curve = 0.5000




++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      100.000 to Point/Station      101.000
**** INITIAL AREA EVALUATION ****
______________________________________________________________________________
Initial area flow distance =   848.000(Ft.)
Top (of initial area) elevation =  1644.500(Ft.)
Bottom (of initial area) elevation =  1624.000(Ft.)
Difference in elevation =    20.500(Ft.)
Slope =    0.02417  s(percent)=       2.42
TC = k(0.530)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =   16.556 min.
Rainfall intensity =      1.500(In/Hr) for a    10.0 year storm
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.720
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  78.00
Pervious area fraction =  1.000; Impervious fraction =  0.000
Initial subarea runoff =      5.084(CFS)
Total initial stream area =        4.710(Ac.)
Pervious area fraction = 1.000


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Process from Point/Station      101.000 to Point/Station      102.000
**** NATURAL CHANNEL TIME + SUBAREA FLOW ADDITION ****
______________________________________________________________________________
Top of natural channel elevation =   1624.000(Ft.)
End of natural channel elevation =   1608.000(Ft.)
Length of natural channel  =   535.000(Ft.)
Estimated mean flow rate at midpoint of channel =      5.926(CFS)

Natural valley channel type used
L.A. County flood control district formula for channel velocity:
 Velocity(ft/s) = (7 + 8(q(English Units)^.352)(slope^0.5)
Velocity using mean channel flow =   3.80(Ft/s)

Correction to map slope used on extremely rugged channels with
drops and waterfalls (Plate D-6.2)
        Normal channel slope =  0.0299
Corrected/adjusted channel slope =  0.0299
Travel time =    2.35 min.     TC =   18.90  min.


 Adding area flow to channel
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.710
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
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```
RI index for soil(AMC 2)  =  78.00
Pervious area fraction =  1.000; Impervious fraction =  0.000
Rainfall intensity =      1.404(In/Hr) for a    10.0 year storm
Subarea runoff =      1.555(CFS) for      1.560(Ac.)
Total runoff =      6.639(CFS)       Total area =       6.270(Ac.)
End of computations, total study area =            6.27 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.

Area averaged pervious area fraction(Ap) = 1.000
Area averaged RI index number =  78.0
```

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                Riverside County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software,(c) 1989 - 2014 Version 9.0
        Rational Hydrology Study        Date: 02/16/22  File:EX.out
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 *********   Hydrology Study Control Information **********

 English (in-lb) Units used in input data file

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Program License Serial Number 5006

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Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) =  100.00 Antecedent Moisture Condition = 2

2 year, 1 hour precipitation =  0.500(In.)
100 year, 1 hour precipitation =  1.200(In.)

Storm event year = 100.0
Calculated rainfall intensity data:
1 hour intensity =  1.200(In/Hr)
Slope of intensity duration curve = 0.5000




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Process from Point/Station        1.000 to Point/Station        2.000
**** INITIAL AREA EVALUATION ****
____________________________________________________________________________
Initial area flow distance =   849.000(Ft.)
Top (of initial area) elevation =  1645.000(Ft.)
Bottom (of initial area) elevation =  1624.000(Ft.)
Difference in elevation =    21.000(Ft.)
Slope =    0.02473  s(percent)=       2.47
TC = k(0.530)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =   16.488 min.
Rainfall intensity =      2.289(In/Hr) for a   100.0 year storm
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.773
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  78.00
Pervious area fraction =  1.000; Impervious fraction =  0.000
Initial subarea runoff =     16.333(CFS)
Total initial stream area =        9.230(Ac.)
Pervious area fraction = 1.000


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Process from Point/Station        2.000 to Point/Station        3.000
**** NATURAL CHANNEL TIME + SUBAREA FLOW ADDITION ****
____________________________________________________________________________
Top of natural channel elevation =   1624.000(Ft.)
End of natural channel elevation =   1583.700(Ft.)
Length of natural channel  =  2030.000(Ft.)
Estimated mean flow rate at midpoint of channel =     60.924(CFS)

Natural valley channel type used
L.A. County flood control district formula for channel velocity:
 Velocity(ft/s) = (7 + 8(q(English Units)^.352)(slope^0.5)
Velocity using mean channel flow =   5.78(Ft/s)

Correction to map slope used on extremely rugged channels with
drops and waterfalls (Plate D-6.2)
        Normal channel slope =  0.0199
Corrected/adjusted channel slope =  0.0199
Travel time =    5.86 min.     TC =   22.35  min.


 Adding area flow to channel
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.756
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
```

```
RI index for soil(AMC 2)  =  78.00
Pervious area fraction =  1.000; Impervious fraction =  0.000
Rainfall intensity =      1.966(In/Hr) for a   100.0 year storm
Subarea runoff =     74.872(CFS) for     50.400(Ac.)
Total runoff =     91.204(CFS)       Total area =      59.630(Ac.)
End of computations, total study area =           59.63 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.

Area averaged pervious area fraction(Ap) = 1.000
Area averaged RI index number =  78.0
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                Riverside County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software,(c) 1989 - 2014 Version 9.0
        Rational Hydrology Study        Date: 02/16/22  File:EX1.out
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 *********   Hydrology Study Control Information **********

 English (in-lb) Units used in input data file

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Program License Serial Number 5006

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Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) =  100.00 Antecedent Moisture Condition = 2

2 year, 1 hour precipitation =  0.500(In.)
100 year, 1 hour precipitation =  1.200(In.)

Storm event year = 100.0
Calculated rainfall intensity data:
1 hour intensity =  1.200(In/Hr)
Slope of intensity duration curve = 0.5000




++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      100.000 to Point/Station      101.000
**** INITIAL AREA EVALUATION ****
______________________________________________________________________________
Initial area flow distance =   848.000(Ft.)
Top (of initial area) elevation =  1644.500(Ft.)
Bottom (of initial area) elevation =  1624.000(Ft.)
Difference in elevation =    20.500(Ft.)
Slope =    0.02417  s(percent)=       2.42
TC = k(0.530)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =   16.556 min.
Rainfall intensity =      2.284(In/Hr) for a   100.0 year storm
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.773
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  78.00
Pervious area fraction =  1.000; Impervious fraction =  0.000
Initial subarea runoff =      8.315(CFS)
Total initial stream area =        4.710(Ac.)
Pervious area fraction = 1.000


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Process from Point/Station      101.000 to Point/Station      102.000
**** NATURAL CHANNEL TIME + SUBAREA FLOW ADDITION ****
______________________________________________________________________________
Top of natural channel elevation =   1624.000(Ft.)
End of natural channel elevation =   1608.000(Ft.)
Length of natural channel  =   535.000(Ft.)
Estimated mean flow rate at midpoint of channel =      9.692(CFS)

Natural valley channel type used
L.A. County flood control district formula for channel velocity:
 Velocity(ft/s) = (7 + 8(q(English Units)^.352)(slope^0.5)
Velocity using mean channel flow =   4.29(Ft/s)

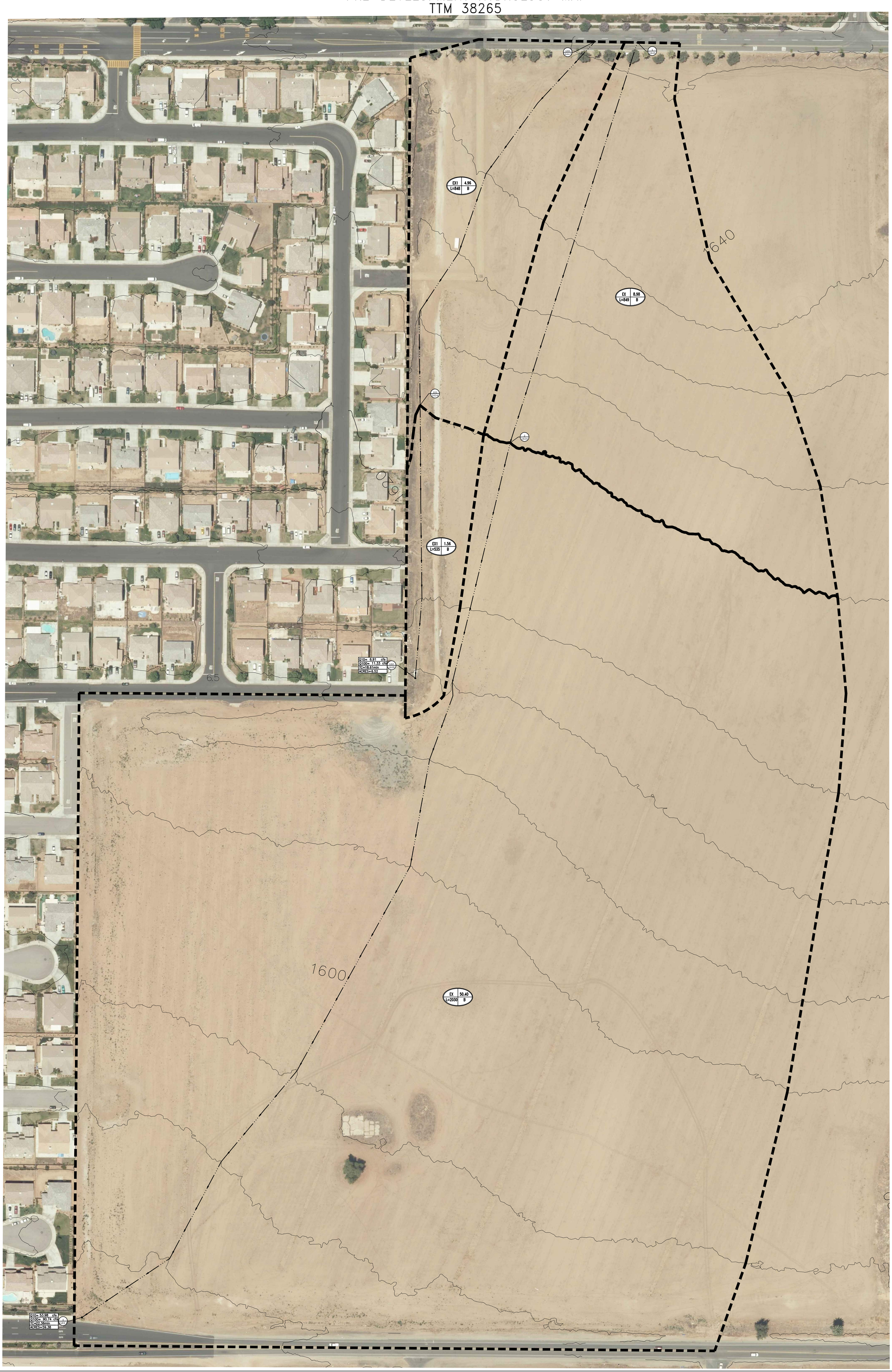
Correction to map slope used on extremely rugged channels with
drops and waterfalls (Plate D-6.2)
        Normal channel slope =  0.0299
Corrected/adjusted channel slope =  0.0299
Travel time =    2.08 min.     TC =   18.64  min.


 Adding area flow to channel
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.766
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
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```
RI index for soil(AMC 2)  =  78.00
Pervious area fraction =  1.000; Impervious fraction =  0.000
Rainfall intensity =      2.153(In/Hr) for a   100.0 year storm
Subarea runoff =      2.574(CFS) for      1.560(Ac.)
Total runoff =     10.888(CFS)       Total area =       6.270(Ac.)
End of computations, total study area =            6.27 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.

Area averaged pervious area fraction(Ap) = 1.000
Area averaged RI index number =  78.0
```

PRE-DEVELOPMENT HYDROLOGY MAP
TTM 38265



LEGEND

NODE / ELEV

AREA | ACRES
LENGTH | SOIL

DRAINAGE AREA BOUNDARY

FLOW PATH

0 60 180
30 120 240
SCALE: 1" = 60'

PRE DEVELOPMENT
HYDROLOGY MAP
TTM 38265
PREPARATION DATE: FEBRUARY 2022
REVISION DATE: JULY 2022
PLANS PREPARED BY:

adkan ENGINEERS
Civil Engineering, Surveying Planning
6879 Airport Drive, Riverside, CA 92504
Tel:(951) 688-0241 Fax:(951) 688-0599

PLOT DATE: 7/7/2022 1:57 PM

U:\PROJECTS\BEERS\0140\HYDROLOGY\EXISTING RATIONAL.DAT

Section 2

Post-Development 10 & 100 year Hydrology Offsite & Onsite (Rational Method)

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                Riverside County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software,(c) 1989 - 2014 Version 9.0
        Rational Hydrology Study        Date: 07/07/22  File:off10.out
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 *********   Hydrology Study Control Information **********

 English (in-lb) Units used in input data file

------------------------------------------------------------------------


Program License Serial Number 5006

------------------------------------------------------------------------
Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District 1978 hydrology manual
Storm event (year) =   10.00 Antecedent Moisture Condition = 2
2 year, 1 hour precipitation =  0.500(In.)
100 year, 1 hour precipitation =  1.200(In.)
Storm event year =  10.0
Calculated rainfall intensity data:
1 hour intensity =  0.788(In/Hr)
Slope of intensity duration curve = 0.5000

++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      100.000 to Point/Station      101.000
**** INITIAL AREA EVALUATION ****
__________________________________________________________________________
Initial area flow distance =   848.000(Ft.)
Top (of initial area) elevation =  1644.500(Ft.)
Bottom (of initial area) elevation =  1624.000(Ft.)
Difference in elevation =    20.500(Ft.)
Slope =    0.02417  s(percent)=       2.42
TC = k(0.530)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =   16.556 min.
Rainfall intensity =      1.500(In/Hr) for a    10.0 year storm
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.720
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  78.00
Pervious area fraction =  1.000; Impervious fraction =  0.000
Initial subarea runoff =      5.354(CFS)
Total initial stream area =        4.960(Ac.)
Pervious area fraction = 1.000


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      101.000 to Point/Station      102.000
**** NATURAL CHANNEL TIME + SUBAREA FLOW ADDITION ****
__________________________________________________________________________
Top of natural channel elevation =   1624.000(Ft.)
End of natural channel elevation =   1608.000(Ft.)
Length of natural channel  =   535.000(Ft.)
Estimated mean flow rate at midpoint of channel =      6.196(CFS)
Natural valley channel type used
L.A. County flood control district formula for channel velocity:
 Velocity(ft/s) = (7 + 8(q(English Units)^.352)(slope^0.5)
Velocity using mean channel flow =   3.84(Ft/s)
Correction to map slope used on extremely rugged channels with
drops and waterfalls (Plate D-6.2)
       Normal channel slope =  0.0299
Corrected/adjusted channel slope =  0.0299
Travel time =    2.32 min.     TC =   18.88  min.
 Adding area flow to channel
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.710
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  78.00
Pervious area fraction =  1.000; Impervious fraction =  0.000
Rainfall intensity =      1.405(In/Hr) for a    10.0 year storm
Subarea runoff =      1.556(CFS) for      1.560(Ac.)
Total runoff =      6.910(CFS)       Total area =       6.520(Ac.)
End of computations, total study area =           6.52 (Ac.)
The following figures maybe used for a unit hydrograph study of the same area.
Area averaged pervious area fraction(Ap) = 1.000
Area averaged RI index number =  78.0
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Process from Point/Station        4.000 to Point/Station        5.000
**** INITIAL AREA EVALUATION ****
------------------------------------------------------------------------------
Initial area flow distance =   676.000(Ft.)
Top (of initial area) elevation =  1600.600(Ft.)
Bottom (of initial area) elevation =  1593.000(Ft.)
Difference in elevation =     7.600(Ft.)
Slope =    0.01124  s(percent)=       1.12
TC = k(0.370)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =   12.303 min.
Rainfall intensity =      1.740(In/Hr) for a    10.0 year storm
CONDOMINIUM subarea type
Runoff Coefficient = 0.782
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  56.00
Pervious area fraction =  0.350; Impervious fraction =  0.650
Initial subarea runoff =      6.066(CFS)
Total initial stream area =        4.460(Ac.)
Pervious area fraction = 0.350


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        5.000 to Point/Station        6.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****
------------------------------------------------------------------------------
Top of street segment elevation =  1593.000(Ft.)
End of street segment elevation =  1582.000(Ft.)
Length of street segment  =   504.000(Ft.)
Height of curb above gutter flowline  =    6.0(In.)
Width of half street (curb to crown)  =  12.000(Ft.)
Distance from crown to crossfall grade break  =  10.000(Ft.)
Slope from gutter to grade break (v/hz) =   0.020
Slope from grade break to crown (v/hz)  =   0.020
Street flow is on [2] side(s) of the street
Distance from curb to property line  =   2.000(Ft.)
Slope from curb to property line (v/hz) =   0.020
Gutter width =   2.000(Ft.)
Gutter hike from flowline =  2.000(In.)
 Manning's N in gutter =  0.0150
 Manning's N from gutter to grade break =  0.0150
 Manning's N from grade break to crown =  0.0150
Estimated mean flow rate at midpoint of street =      9.491(CFS)
Depth of flow =   0.348(Ft.), Average velocity =   3.523(Ft/s)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width =  11.046(Ft.)
Flow velocity =   3.52(Ft/s)
Travel time =    2.38 min.     TC =   14.69  min.
 Adding area flow to street
CONDOMINIUM subarea type
Runoff Coefficient = 0.775
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  56.00
Pervious area fraction =  0.350; Impervious fraction =  0.650
Rainfall intensity =      1.593(In/Hr) for a    10.0 year storm
Subarea runoff =      6.678(CFS) for      5.410(Ac.)
Total runoff =     12.744(CFS)       Total area =       9.870(Ac.)
Street flow at end of street =     12.744(CFS)
Half street flow at end of street =      6.372(CFS)
Depth of flow =   0.375(Ft.), Average velocity =   3.835(Ft/s)
Note:  depth of flow exceeds top of street crown.
Flow width (from curb towards crown)=  12.000(Ft.)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        6.000 to Point/Station        3.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****
------------------------------------------------------------------------------
Upstream point/station elevation =  1582.000(Ft.)
Downstream point/station elevation =  1572.000(Ft.)
Pipe length  =    10.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =    12.744(CFS)
Nearest computed pipe diameter  =      9.00(In.)
Calculated individual pipe flow  =    12.744(CFS)
Normal flow depth in pipe =    5.93(In.)
Flow top width inside pipe =    8.53(In.)
Critical depth could not be calculated.
Pipe flow velocity =     41.32(Ft/s)
Travel time through pipe =    0.00 min.
Time of concentration (TC) =    14.69 min.
```

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++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        3.000 to Point/Station        3.000
**** CONFLUENCE OF MINOR STREAMS ****
____________________________________________________________________________
Along Main Stream number: 1 in normal stream number 2
Stream flow area =      9.870(Ac.)
Runoff from this stream =      12.744(CFS)
Time of concentration =   14.69 min.
Rainfall intensity =     1.592(In/Hr)
Summary of stream data:

Stream   Flow rate      TC            Rainfall Intensity
 No.       (CFS)       (min)                 (In/Hr)


1       10.804     14.21                1.619
2       12.744     14.69                1.592
Largest stream flow has longer time of concentration
Qp =     12.744 + sum of
          Qb          Ia/Ib
          10.804 *    0.984 =     10.626
Qp =     23.371

Total of 2 streams to confluence:
Flow rates before confluence point:
       10.804      12.744
Area of streams before confluence:
        8.330        9.870
Results of confluence:
Total flow rate =     23.371(CFS)
Time of concentration =    14.691 min.
Effective stream area after confluence =     18.200(Ac.)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        3.000 to Point/Station        7.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****
____________________________________________________________________________
Upstream point/station elevation =  1572.000(Ft.)
Downstream point/station elevation =  1571.600(Ft.)
Pipe length  =    50.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =    23.371(CFS)
Nearest computed pipe diameter  =     27.00(In.)
Calculated individual pipe flow  =    23.371(CFS)
Normal flow depth in pipe =   19.01(In.)
Flow top width inside pipe =   24.65(In.)
Critical Depth =   20.31(In.)
Pipe flow velocity =      7.81(Ft/s)
Travel time through pipe =    0.11 min.
Time of concentration (TC) =    14.80 min.


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Process from Point/Station        7.000 to Point/Station        7.000
**** CONFLUENCE OF MINOR STREAMS ****
____________________________________________________________________________
Along Main Stream number: 1 in normal stream number 1
Stream flow area =     18.200(Ac.)
Runoff from this stream =     23.371(CFS)
Time of concentration =   14.80 min.
Rainfall intensity =     1.587(In/Hr)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        7.100 to Point/Station        7.200
**** INITIAL AREA EVALUATION ****
____________________________________________________________________________
Initial area flow distance =   660.000(Ft.)
Top (of initial area) elevation =  1588.900(Ft.)
Bottom (of initial area) elevation =  1583.700(Ft.)
Difference in elevation =     5.200(Ft.)
Slope =    0.00788  s(percent)=       0.79
TC = k(0.300)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =   10.608 min.
Rainfall intensity =      1.874(In/Hr) for a    10.0 year storm
COMMERCIAL subarea type
Runoff Coefficient = 0.868
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  56.00
Pervious area fraction =  0.100; Impervious fraction =  0.900
Initial subarea runoff =      1.821(CFS)
Total initial stream area =        1.120(Ac.)
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Pervious area fraction = 0.100


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Process from Point/Station        7.200 to Point/Station        7.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****
______________________________________________________________________________
Upstream point/station elevation =  1583.700(Ft.)
Downstream point/station elevation =  1571.800(Ft.)
Pipe length  =    29.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =     1.821(CFS)
Nearest computed pipe diameter  =      6.00(In.)
Calculated individual pipe flow  =     1.821(CFS)
Normal flow depth in pipe =    3.02(In.)
Flow top width inside pipe =    6.00(In.)
Critical depth could not be calculated.
Pipe flow velocity =     18.37(Ft/s)
Travel time through pipe =    0.03 min.
Time of concentration (TC) =    10.63 min.


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Process from Point/Station        7.000 to Point/Station        7.000
**** CONFLUENCE OF MINOR STREAMS ****
______________________________________________________________________________
Along Main Stream number: 1 in normal stream number 2
Stream flow area =      1.120(Ac.)
Runoff from this stream =      1.821(CFS)
Time of concentration =   10.63 min.
Rainfall intensity =     1.872(In/Hr)
Summary of stream data:

Stream   Flow rate      TC             Rainfall Intensity
 No.       (CFS)       (min)                  (In/Hr)


1       23.371     14.80                  1.587
2        1.821     10.63                  1.872
Largest stream flow has longer time of concentration
Qp =     23.371 + sum of
          Qb          Ia/Ib
           1.821 *    0.848 =      1.544
Qp =     24.914

Total of 2 streams to confluence:
Flow rates before confluence point:
      23.371       1.821
Area of streams before confluence:
       18.200        1.120
Results of confluence:
Total flow rate =     24.914(CFS)
Time of concentration =    14.798 min.
Effective stream area after confluence =     19.320(Ac.)


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Process from Point/Station        7.000 to Point/Station       11.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****
______________________________________________________________________________
Upstream point/station elevation =  1571.800(Ft.)
Downstream point/station elevation =  1571.600(Ft.)
Pipe length  =    68.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =    24.914(CFS)
Nearest computed pipe diameter  =     33.00(In.)
Calculated individual pipe flow  =    24.914(CFS)
Normal flow depth in pipe =   23.77(In.)
Flow top width inside pipe =   29.63(In.)
Critical Depth =   19.83(In.)
Pipe flow velocity =      5.44(Ft/s)
Travel time through pipe =    0.21 min.
Time of concentration (TC) =    15.01 min.


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Process from Point/Station       11.000 to Point/Station       11.000
**** CONFLUENCE OF MINOR STREAMS ****
______________________________________________________________________________
Along Main Stream number: 1 in normal stream number 1
Stream flow area =     19.320(Ac.)
Runoff from this stream =     24.914(CFS)
Time of concentration =   15.01 min.
Rainfall intensity =     1.576(In/Hr)


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Process from Point/Station        8.000 to Point/Station        9.000
**** INITIAL AREA EVALUATION ****
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Initial area flow distance =   849.000(Ft.)
Top (of initial area) elevation =  1645.000(Ft.)
Bottom (of initial area) elevation =  1624.000(Ft.)
Difference in elevation =    21.000(Ft.)
Slope =    0.02473  s(percent)=       2.47
TC = k(0.530)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =   16.488 min.
Rainfall intensity =      1.503(In/Hr) for a    10.0 year storm
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.720
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  78.00
Pervious area fraction =  1.000; Impervious fraction =  0.000
Initial subarea runoff =      9.988(CFS)
Total initial stream area =        9.230(Ac.)
Pervious area fraction = 1.000


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        9.000 to Point/Station       10.000
**** NATURAL CHANNEL TIME + SUBAREA FLOW ADDITION ****
------------------------------------------------------------------------------
Top of natural channel elevation =   1624.000(Ft.)
End of natural channel elevation =   1588.900(Ft.)
Length of natural channel  =  1861.000(Ft.)
Estimated mean flow rate at midpoint of channel =     26.431(CFS)

Natural valley channel type used
L.A. County flood control district formula for channel velocity:
 Velocity(ft/s) = (7 + 8(q(English Units)^.352)(slope^0.5)
Velocity using mean channel flow =   4.44(Ft/s)

Correction to map slope used on extremely rugged channels with
drops and waterfalls (Plate D-6.2)
        Normal channel slope =  0.0189
Corrected/adjusted channel slope =  0.0189
Travel time =    6.99 min.     TC =   23.47  min.


 Adding area flow to channel
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.693
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  78.00
Pervious area fraction =  1.000; Impervious fraction =  0.000
Rainfall intensity =      1.260(In/Hr) for a    10.0 year storm
Subarea runoff =     26.536(CFS) for     30.390(Ac.)
Total runoff =     36.524(CFS)        Total area =      39.620(Ac.)


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Process from Point/Station       10.000 to Point/Station       11.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****
------------------------------------------------------------------------------
Upstream point/station elevation =  1588.900(Ft.)
Downstream point/station elevation =  1571.600(Ft.)
Pipe length  =   753.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =    36.524(CFS)
Nearest computed pipe diameter  =     24.00(In.)
Calculated individual pipe flow  =    36.524(CFS)
Normal flow depth in pipe =   21.60(In.)
Flow top width inside pipe =   14.40(In.)
Critical depth could not be calculated.
Pipe flow velocity =     12.27(Ft/s)
Travel time through pipe =    1.02 min.
Time of concentration (TC) =    24.50 min.


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station       11.000 to Point/Station       11.000
**** CONFLUENCE OF MINOR STREAMS ****
------------------------------------------------------------------------------
Along Main Stream number: 1 in normal stream number 2
Stream flow area =     39.620(Ac.)
Runoff from this stream =     36.524(CFS)
Time of concentration =   24.50 min.
Rainfall intensity =     1.233(In/Hr)
Summary of stream data:

Stream   Flow rate      TC            Rainfall Intensity
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 No.       (CFS)       (min)                (In/Hr)


1       24.914     15.01                1.576
2       36.524     24.50                1.233
Largest stream flow has longer time of concentration
Qp =     36.524 + sum of
          Qb         Ia/Ib
          24.914 *    0.783 =     19.500
Qp =     56.024

Total of 2 streams to confluence:
Flow rates before confluence point:
      24.914      36.524
Area of streams before confluence:
       19.320       39.620
Results of confluence:
Total flow rate =     56.024(CFS)
Time of concentration =    24.496 min.
Effective stream area after confluence =     58.940(Ac.)
End of computations, total study area =           58.94 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.

Area averaged pervious area fraction(Ap) = 0.782
Area averaged RI index number =  70.8
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                Riverside County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software,(c) 1989 - 2014 Version 9.0
        Rational Hydrology Study        Date: 02/15/22  File:OFF10.out
------------------------------------------------------------------------
 *********   Hydrology Study Control Information **********

 English (in-lb) Units used in input data file

------------------------------------------------------------------------


Program License Serial Number 5006

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Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District 1978 hydrology manual
Storm event (year) =   10.00 Antecedent Moisture Condition = 2
2 year, 1 hour precipitation =  0.500(In.)
100 year, 1 hour precipitation =  1.200(In.)
Storm event year =  10.0
Calculated rainfall intensity data:
1 hour intensity =  0.788(In/Hr)
Slope of intensity duration curve = 0.5000

++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      100.000 to Point/Station      101.000
**** INITIAL AREA EVALUATION ****
________________________________________________________________________
Initial area flow distance =   848.000(Ft.)
Top (of initial area) elevation =  1644.500(Ft.)
Bottom (of initial area) elevation =  1624.000(Ft.)
Difference in elevation =    20.500(Ft.)
Slope =    0.02417  s(percent)=       2.42
TC = k(0.530)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =   16.556 min.
Rainfall intensity =      1.500(In/Hr) for a    10.0 year storm
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.720
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  78.00
Pervious area fraction =  1.000; Impervious fraction =  0.000
Initial subarea runoff =      5.084(CFS)
Total initial stream area =        4.710(Ac.)
Pervious area fraction = 1.000

++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      101.000 to Point/Station      102.000
**** NATURAL CHANNEL TIME + SUBAREA FLOW ADDITION ****
________________________________________________________________________
Top of natural channel elevation =   1624.000(Ft.)
End of natural channel elevation =   1608.000(Ft.)
Length of natural channel  =   535.000(Ft.)
Estimated mean flow rate at midpoint of channel =      5.926(CFS)
Natural valley channel type used
L.A. County flood control district formula for channel velocity:
 Velocity(ft/s) = (7 + 8(q(English Units)^.352)(slope^0.5)
Velocity using mean channel flow =   3.80(Ft/s)
Correction to map slope used on extremely rugged channels with
drops and waterfalls (Plate D-6.2)
       Normal channel slope =  0.0299
Corrected/adjusted channel slope =  0.0299
Travel time =    2.35 min.     TC =   18.90  min.
 Adding area flow to channel
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.710
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  78.00
Pervious area fraction =  1.000; Impervious fraction =  0.000
Rainfall intensity =      1.404(In/Hr) for a    10.0 year storm
Subarea runoff =      1.555(CFS) for      1.560(Ac.)
Total runoff =      6.639(CFS)       Total area =       6.270(Ac.)
End of computations, total study area =            6.27 (Ac.)
The following figures maybe used for a unit hydrograph study of the same area.
Area averaged pervious area fraction(Ap) = 1.000
Area averaged RI index number =  78.0
```

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                Riverside County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software,(c) 1989 - 2014 Version 9.0
        Rational Hydrology Study        Date: 02/28/22  File:pro100.out
------------------------------------------------------------------------
 *********   Hydrology Study Control Information **********

 English (in-lb) Units used in input data file

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Program License Serial Number 5006

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Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) =  100.00 Antecedent Moisture Condition = 2

2 year, 1 hour precipitation =  0.500(In.)
100 year, 1 hour precipitation =  1.200(In.)

Storm event year = 100.0
Calculated rainfall intensity data:
1 hour intensity =  1.200(In/Hr)
Slope of intensity duration curve = 0.5000




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Process from Point/Station        1.000 to Point/Station        2.000
**** INITIAL AREA EVALUATION ****
______________________________________________________________________________
Initial area flow distance =   997.000(Ft.)
Top (of initial area) elevation =  1607.800(Ft.)
Bottom (of initial area) elevation =  1592.000(Ft.)
Difference in elevation =    15.800(Ft.)
Slope =    0.01585  s(percent)=       1.58
TC = k(0.370)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =   13.418 min.
Rainfall intensity =      2.538(In/Hr) for a   100.0 year storm
CONDOMINIUM subarea type
Runoff Coefficient = 0.808
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  56.00
Pervious area fraction =  0.350; Impervious fraction =  0.650
Initial subarea runoff =     17.078(CFS)
Total initial stream area =        8.330(Ac.)
Pervious area fraction = 0.350


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        2.000 to Point/Station        3.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****
______________________________________________________________________________
Upstream point/station elevation =  1592.000(Ft.)
Downstream point/station elevation =  1572.000(Ft.)
Pipe length  =   542.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =    17.078(CFS)
Nearest computed pipe diameter  =     18.00(In.)
Calculated individual pipe flow  =    17.078(CFS)
Normal flow depth in pipe =   12.70(In.)
Flow top width inside pipe =   16.41(In.)
Critical depth could not be calculated.
Pipe flow velocity =     12.81(Ft/s)
Travel time through pipe =    0.71 min.
Time of concentration (TC) =    14.12 min.


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Process from Point/Station        3.000 to Point/Station        3.000
**** CONFLUENCE OF MINOR STREAMS ****
______________________________________________________________________________
Along Main Stream number: 1 in normal stream number 1
Stream flow area =      8.330(Ac.)
Runoff from this stream =     17.078(CFS)
Time of concentration =   14.12 min.
Rainfall intensity =     2.473(In/Hr)
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++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        4.000 to Point/Station        5.000
**** INITIAL AREA EVALUATION ****
______________________________________________________________________________
Initial area flow distance =   676.000(Ft.)
Top (of initial area) elevation =  1600.600(Ft.)
Bottom (of initial area) elevation =  1593.000(Ft.)
Difference in elevation =     7.600(Ft.)
Slope =    0.01124  s(percent)=       1.12
TC = k(0.370)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =   12.303 min.
Rainfall intensity =      2.650(In/Hr) for a   100.0 year storm
CONDOMINIUM subarea type
Runoff Coefficient = 0.811
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  56.00
Pervious area fraction =  0.350; Impervious fraction =  0.650
Initial subarea runoff =      9.582(CFS)
Total initial stream area =        4.460(Ac.)
Pervious area fraction = 0.350


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Process from Point/Station        5.000 to Point/Station        6.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****
______________________________________________________________________________
Top of street segment elevation =  1593.000(Ft.)
End of street segment elevation =  1582.000(Ft.)
Length of street segment  =   504.000(Ft.)
Height of curb above gutter flowline  =    6.0(In.)
Width of half street (curb to crown)  =  12.000(Ft.)
Distance from crown to crossfall grade break  =  10.000(Ft.)
Slope from gutter to grade break (v/hz) =   0.020
Slope from grade break to crown (v/hz)  =   0.020
Street flow is on [2] side(s) of the street
Distance from curb to property line  =   2.000(Ft.)
Slope from curb to property line (v/hz) =   0.020
Gutter width =   2.000(Ft.)
Gutter hike from flowline =  2.000(In.)
 Manning's N in gutter =  0.0150
 Manning's N from gutter to grade break =  0.0150
 Manning's N from grade break to crown =  0.0150
Estimated mean flow rate at midpoint of street =     14.989(CFS)
Depth of flow =   0.389(Ft.), Average velocity =   4.091(Ft/s)
Note:  depth of flow exceeds top of street crown.
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width =  12.000(Ft.)
Flow velocity =   4.09(Ft/s)
Travel time =    2.05 min.     TC =   14.36  min.
 Adding area flow to street
CONDOMINIUM subarea type
Runoff Coefficient = 0.806
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  56.00
Pervious area fraction =  0.350; Impervious fraction =  0.650
Rainfall intensity =      2.453(In/Hr) for a   100.0 year storm
Subarea runoff =     10.694(CFS) for      5.410(Ac.)
Total runoff =     20.276(CFS)       Total area =       9.870(Ac.)
Street flow at end of street =     20.276(CFS)
Half street flow at end of street =     10.138(CFS)
Depth of flow =   0.419(Ft.), Average velocity =   4.612(Ft/s)
Note:  depth of flow exceeds top of street crown.
Flow width (from curb towards crown)=  12.000(Ft.)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        6.000 to Point/Station        3.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****
______________________________________________________________________________
Upstream point/station elevation =  1582.000(Ft.)
Downstream point/station elevation =  1572.000(Ft.)
Pipe length  =    10.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =    20.276(CFS)
Nearest computed pipe diameter  =    12.00(In.)
Calculated individual pipe flow  =    20.276(CFS)
Normal flow depth in pipe =    6.48(In.)
Flow top width inside pipe =   11.96(In.)
Critical depth could not be calculated.
Pipe flow velocity =     46.81(Ft/s)
Travel time through pipe =    0.00 min.
```

```
Time of concentration (TC) =    14.36 min.


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        3.000 to Point/Station        3.000
**** CONFLUENCE OF MINOR STREAMS ****
------------------------------------------------------------------------------
Along Main Stream number: 1 in normal stream number 2
Stream flow area =      9.870(Ac.)
Runoff from this stream =     20.276(CFS)
Time of concentration =   14.36 min.
Rainfall intensity =     2.453(In/Hr)
Summary of stream data:

Stream   Flow rate      TC             Rainfall Intensity
 No.       (CFS)       (min)                  (In/Hr)


1       17.078     14.12                 2.473
2       20.276     14.36                 2.453
Largest stream flow has longer time of concentration
Qp =     20.276 + sum of
          Qb         Ia/Ib
          17.078 *    0.992 =     16.937
Qp =     37.213

Total of 2 streams to confluence:
Flow rates before confluence point:
      17.078      20.276
Area of streams before confluence:
        8.330        9.870
Results of confluence:
Total flow rate =     37.213(CFS)
Time of concentration =    14.360 min.
Effective stream area after confluence =     18.200(Ac.)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        3.000 to Point/Station        7.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****
------------------------------------------------------------------------------
Upstream point/station elevation =  1572.000(Ft.)
Downstream point/station elevation =  1571.600(Ft.)
Pipe length  =    50.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =    37.213(CFS)
Nearest computed pipe diameter  =     30.00(In.)
Calculated individual pipe flow  =    37.213(CFS)
Normal flow depth in pipe =   24.98(In.)
Flow top width inside pipe =   22.39(In.)
Critical Depth =   24.77(In.)
Pipe flow velocity =      8.51(Ft/s)
Travel time through pipe =    0.10 min.
Time of concentration (TC) =    14.46 min.


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        7.000 to Point/Station        7.000
**** CONFLUENCE OF MINOR STREAMS ****
------------------------------------------------------------------------------
Along Main Stream number: 1 in normal stream number 1
Stream flow area =     18.200(Ac.)
Runoff from this stream =     37.213(CFS)
Time of concentration =   14.46 min.
Rainfall intensity =     2.445(In/Hr)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        7.100 to Point/Station        7.200
**** INITIAL AREA EVALUATION ****
------------------------------------------------------------------------------
Initial area flow distance =   660.000(Ft.)
Top (of initial area) elevation =  1588.900(Ft.)
Bottom (of initial area) elevation =  1583.700(Ft.)
Difference in elevation =     5.200(Ft.)
Slope =    0.00788  s(percent)=       0.79
TC = k(0.300)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =   10.608 min.
Rainfall intensity =      2.854(In/Hr) for a   100.0 year storm
COMMERCIAL subarea type
Runoff Coefficient = 0.876
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  56.00
Pervious area fraction =  0.100; Impervious fraction =  0.900
Initial subarea runoff =      2.799(CFS)
```

```
Total initial stream area =        1.120(Ac.)
Pervious area fraction = 0.100


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        7.200 to Point/Station        7.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****
______________________________________________________________________________
Upstream point/station elevation =  1583.700(Ft.)
Downstream point/station elevation =  1571.800(Ft.)
Pipe length  =    29.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =     2.799(CFS)
Nearest computed pipe diameter  =      6.00(In.)
Calculated individual pipe flow  =     2.799(CFS)
Normal flow depth in pipe =    3.98(In.)
Flow top width inside pipe =    5.67(In.)
Critical depth could not be calculated.
Pipe flow velocity =     20.24(Ft/s)
Travel time through pipe =    0.02 min.
Time of concentration (TC) =    10.63 min.


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        7.000 to Point/Station        7.000
**** CONFLUENCE OF MINOR STREAMS ****
______________________________________________________________________________
Along Main Stream number: 1 in normal stream number 2
Stream flow area =      1.120(Ac.)
Runoff from this stream =      2.799(CFS)
Time of concentration =   10.63 min.
Rainfall intensity =     2.851(In/Hr)
Summary of stream data:

Stream   Flow rate      TC             Rainfall Intensity
 No.       (CFS)       (min)                  (In/Hr)


1       37.213     14.46                 2.445
2        2.799     10.63                 2.851
Largest stream flow has longer time of concentration
Qp =     37.213 + sum of
          Qb         Ia/Ib
           2.799 *    0.858 =      2.401
Qp =     39.614

Total of 2 streams to confluence:
Flow rates before confluence point:
      37.213       2.799
Area of streams before confluence:
       18.200        1.120
Results of confluence:
Total flow rate =     39.614(CFS)
Time of concentration =    14.458 min.
Effective stream area after confluence =     19.320(Ac.)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        7.000 to Point/Station       11.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****
______________________________________________________________________________
Upstream point/station elevation =  1571.800(Ft.)
Downstream point/station elevation =  1571.600(Ft.)
Pipe length  =    68.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =    39.614(CFS)
Nearest computed pipe diameter  =     39.00(In.)
Calculated individual pipe flow  =    39.614(CFS)
Normal flow depth in pipe =   28.50(In.)
Flow top width inside pipe =   34.60(In.)
Critical Depth =   24.04(In.)
Pipe flow velocity =      6.09(Ft/s)
Travel time through pipe =    0.19 min.
Time of concentration (TC) =    14.64 min.


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station       11.000 to Point/Station       11.000
**** CONFLUENCE OF MINOR STREAMS ****
______________________________________________________________________________
Along Main Stream number: 1 in normal stream number 1
Stream flow area =     19.320(Ac.)
Runoff from this stream =     39.614(CFS)
Time of concentration =   14.64 min.
Rainfall intensity =     2.429(In/Hr)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        8.000 to Point/Station        9.000
```

```
**** INITIAL AREA EVALUATION ****
------------------------------------------------------------------------
Initial area flow distance =   849.000(Ft.)
Top (of initial area) elevation =  1645.000(Ft.)
Bottom (of initial area) elevation =  1624.000(Ft.)
Difference in elevation =    21.000(Ft.)
Slope =    0.02473  s(percent)=       2.47
TC = k(0.530)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =   16.488 min.
Rainfall intensity =      2.289(In/Hr) for a   100.0 year storm
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.773
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  78.00
Pervious area fraction =  1.000; Impervious fraction =  0.000
Initial subarea runoff =     16.333(CFS)
Total initial stream area =        9.230(Ac.)
Pervious area fraction = 1.000


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        9.000 to Point/Station       10.000
**** NATURAL CHANNEL TIME + SUBAREA FLOW ADDITION ****
------------------------------------------------------------------------
Top of natural channel elevation =   1624.000(Ft.)
End of natural channel elevation =   1588.900(Ft.)
Length of natural channel  =  1861.000(Ft.)
Estimated mean flow rate at midpoint of channel =     43.220(CFS)

Natural valley channel type used
L.A. County flood control district formula for channel velocity:
 Velocity(ft/s) = (7 + 8(q(English Units)^.352)(slope^0.5)
Velocity using mean channel flow =   5.10(Ft/s)

Correction to map slope used on extremely rugged channels with
drops and waterfalls (Plate D-6.2)
        Normal channel slope =  0.0189
Corrected/adjusted channel slope =  0.0189
Travel time =    6.08 min.     TC =   22.57  min.


 Adding area flow to channel
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.755
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  78.00
Pervious area fraction =  1.000; Impervious fraction =  0.000
Rainfall intensity =      1.956(In/Hr) for a   100.0 year storm
Subarea runoff =     44.883(CFS) for     30.390(Ac.)
Total runoff =     61.216(CFS)       Total area =      39.620(Ac.)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station       10.000 to Point/Station       11.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****
------------------------------------------------------------------------
Upstream point/station elevation =  1588.900(Ft.)
Downstream point/station elevation =  1571.600(Ft.)
Pipe length  =   753.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =    61.216(CFS)
Nearest computed pipe diameter  =     30.00(In.)
Calculated individual pipe flow  =    61.216(CFS)
Normal flow depth in pipe =   24.19(In.)
Flow top width inside pipe =   23.71(In.)
Critical depth could not be calculated.
Pipe flow velocity =     14.44(Ft/s)
Travel time through pipe =    0.87 min.
Time of concentration (TC) =    23.44 min.


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station       11.000 to Point/Station       11.000
**** CONFLUENCE OF MINOR STREAMS ****
------------------------------------------------------------------------
Along Main Stream number: 1 in normal stream number 2
Stream flow area =     39.620(Ac.)
Runoff from this stream =     61.216(CFS)
Time of concentration =   23.44 min.
Rainfall intensity =     1.920(In/Hr)
Summary of stream data:
```

```
Stream   Flow rate      TC            Rainfall Intensity
 No.       (CFS)       (min)                (In/Hr)


1       39.614     14.64                 2.429
2       61.216     23.44                 1.920
Largest stream flow has longer time of concentration
Qp =     61.216 + sum of
          Qb         Ia/Ib
          39.614 *    0.790 =     31.310
Qp =     92.525

Total of 2 streams to confluence:
Flow rates before confluence point:
      39.614      61.216
Area of streams before confluence:
       19.320       39.620
Results of confluence:
Total flow rate =     92.525(CFS)
Time of concentration =    23.442 min.
Effective stream area after confluence =     58.940(Ac.)
End of computations, total study area =           58.94 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.

Area averaged pervious area fraction(Ap) = 0.782
Area averaged RI index number =  70.8
```

```
                Riverside County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software,(c) 1989 - 2014 Version 9.0
        Rational Hydrology Study        Date: 02/15/22  File:OFF.out
------------------------------------------------------------------------
 *********   Hydrology Study Control Information **********

 English (in-lb) Units used in input data file

------------------------------------------------------------------------


Program License Serial Number 5006

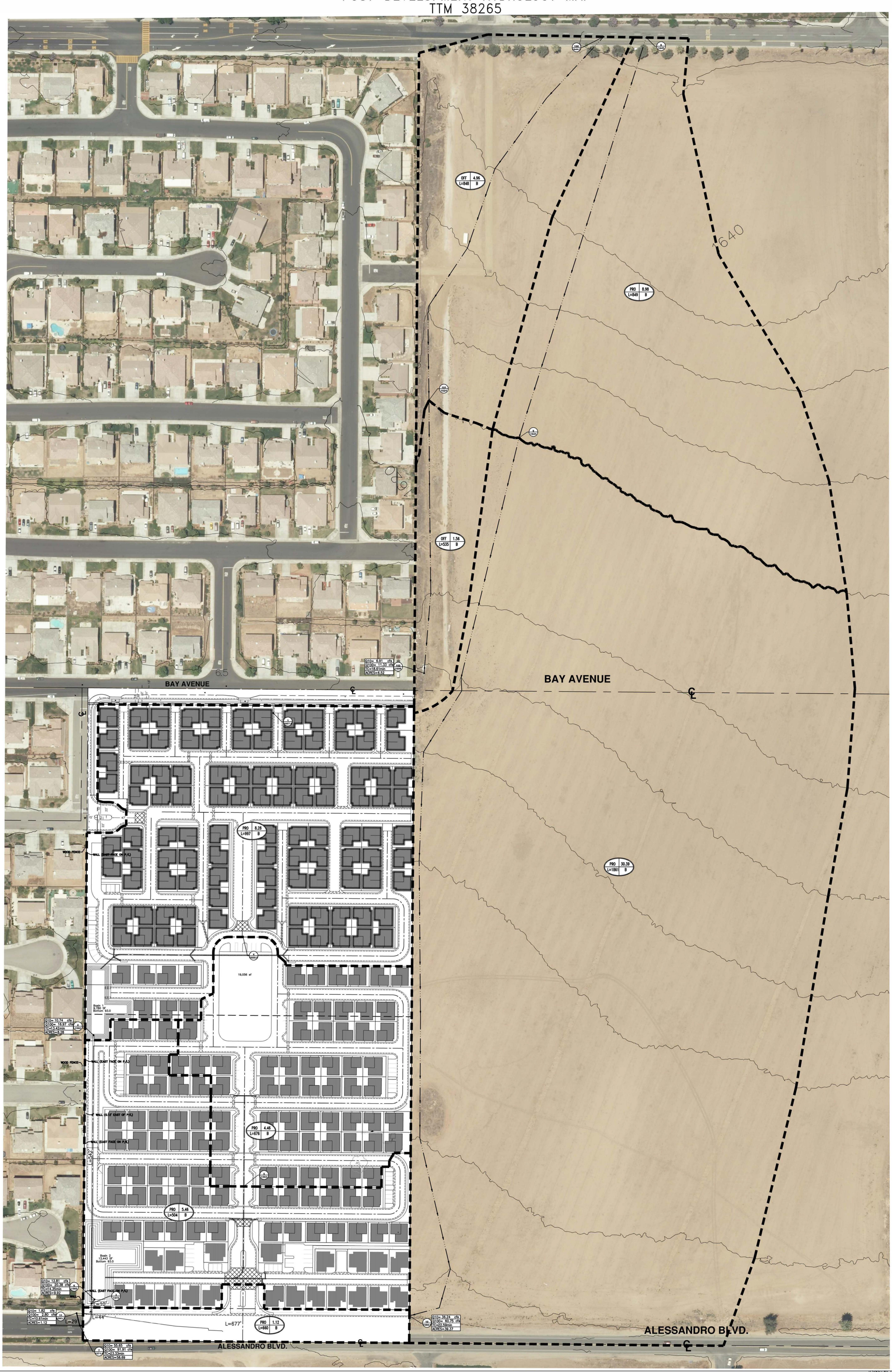
------------------------------------------------------------------------
Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District 1978 hydrology manual
Storm event (year) =  100.00 Antecedent Moisture Condition = 2
2 year, 1 hour precipitation =  0.500(In.)
100 year, 1 hour precipitation =  1.200(In.)
Storm event year = 100.0
Calculated rainfall intensity data:
1 hour intensity =  1.200(In/Hr)
Slope of intensity duration curve = 0.5000

++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      100.000 to Point/Station      101.000
**** INITIAL AREA EVALUATION ****
____________________________________________________________________________
Initial area flow distance =   848.000(Ft.)
Top (of initial area) elevation =  1644.500(Ft.)
Bottom (of initial area) elevation =  1624.000(Ft.)
Difference in elevation =    20.500(Ft.)
Slope =    0.02417  s(percent)=       2.42
TC = k(0.530)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =   16.556 min.
Rainfall intensity =      2.284(In/Hr) for a   100.0 year storm
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.773
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  78.00
Pervious area fraction =  1.000; Impervious fraction =  0.000
Initial subarea runoff =      8.315(CFS)
Total initial stream area =        4.710(Ac.)
Pervious area fraction = 1.000

++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      101.000 to Point/Station      102.000
**** NATURAL CHANNEL TIME + SUBAREA FLOW ADDITION ****
____________________________________________________________________________
Top of natural channel elevation =   1624.000(Ft.)
End of natural channel elevation =   1608.000(Ft.)
Length of natural channel  =   535.000(Ft.)
Estimated mean flow rate at midpoint of channel =      9.692(CFS)

Natural valley channel type used
L.A. County flood control district formula for channel velocity:
 Velocity(ft/s) = (7 + 8(q(English Units)^.352)(slope^0.5)
Velocity using mean channel flow =   4.29(Ft/s)
Correction to map slope used on extremely rugged channels with
drops and waterfalls (Plate D-6.2)
        Normal channel slope =  0.0299
Corrected/adjusted channel slope =  0.0299
Travel time =    2.08 min.     TC =   18.64  min.
 Adding area flow to channel
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.766
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  78.00
Pervious area fraction =  1.000; Impervious fraction =  0.000
Rainfall intensity =      2.153(In/Hr) for a   100.0 year storm
Subarea runoff =      2.574(CFS) for      1.560(Ac.)
Total runoff =     10.888(CFS)       Total area =       6.270(Ac.)
End of computations, total study area =           6.27 (Ac.)
The following figures maybe used for a unit hydrograph study of the same area.
Area averaged pervious area fraction(Ap) = 1.000
Area averaged RI index number =  78.0
```

POST-DEVELOPMENT HYDROLOGY MAP
TTM 38265



LEGEND

NODE ELEV | AREA ACRES / LENGTH SOIL

DRAINAGE AREA BOUNDARY

FLOW PATH

0 60 180
30 120 240
SCALE: 1" = 60'

POST DEVELOPMENT
HYDROLOGY MAP
TTM 38265
PREPARATION DATE: FEBRUARY 2022
REVISION DATE: JULY 2022
PLANS PREPARED BY:

adkan ENGINEERS
Civil Engineering, Surveying, Planning
6879 Airport Drive, Riverside, CA 92504
Tel:(951) 688-0241 Fax:(951) 688-0599

PLOT DATE: 1/7/2022 1:27 PM

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Section 3

Pre-Development Onsite Unit Hydrographs

```
       U n i t   H y d r o g r a p h   A n a l y s i s

       Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2008, Version 8.1
              Study date  02/28/22 File: ex212.out

++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
------------------------------------------------------------------------------

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       8.33(Ac.)  =      0.013 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       8.33(Ac.)  =      0.013 Sq. Mi.
Length along longest watercourse =     911.00(Ft.)
Length along longest watercourse measured to centroid =     456.00(Ft.)
Length along longest watercourse =      0.173 Mi.
Length along longest watercourse measured to centroid =      0.086 Mi.
Difference in elevation =      16.00(Ft.)
Slope along watercourse =     92.7333 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time =    0.062 Hr.
Lag time =     3.69 Min.
25% of lag time =     0.92 Min.
40% of lag time =     1.48 Min.
Unit time =     5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            0.50                 4.17

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            1.20                10.00

STORM EVENT (YEAR) =    2.00
Area Averaged 2-Year Rainfall =    0.500(In)
Area Averaged 100-Year Rainfall =    1.200(In)

Point rain (area averaged) =    0.500(In)
Areal adjustment factor =   99.99 %
Adjusted average point rain =    0.500(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     8.330           69.00          0.000
 Total Area Entered =      8.33(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-1     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
69.0  49.8      0.574     0.000        0.574       1.000      0.574
                                                  Sum (F) =   0.574
Area averaged mean soil loss (F) (In/Hr) =  0.574
Minimum soil loss rate ((In/Hr)) =  0.287
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.900
------------------------------------------------------------------------
Slope of intensity-duration curve for a 1 hour storm =0.5000
------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
------------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
```

```
        (hrs)                          Graph %            (CFS)
      ------------------------------------------------------------------------
         1   0.083        135.344         29.460              2.473
         2   0.167        270.688         47.995              4.029
         3   0.250        406.032         12.120              1.017
         4   0.333        541.376          5.371              0.451
         5   0.417        676.720          2.918              0.245
         6   0.500        812.064          2.136              0.179
                                  Sum = 100.000   Sum=        8.395
------------------------------------------------------------------------
```

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

```
 Unit Time   Pattern   Storm Rain     Loss rate(In./Hr)     Effective
      (Hr.)  Percent   (In/Hr)         Max    |   Low        (In/Hr)
  1   0.08     4.20      0.252       (  0.574)       0.227        0.025
  2   0.17     4.30      0.258       (  0.574)       0.232        0.026
  3   0.25     5.00      0.300       (  0.574)       0.270        0.030
  4   0.33     5.00      0.300       (  0.574)       0.270        0.030
  5   0.42     5.80      0.348       (  0.574)       0.313        0.035
  6   0.50     6.50      0.390       (  0.574)       0.351        0.039
  7   0.58     7.40      0.444       (  0.574)       0.400        0.044
  8   0.67     8.60      0.516       (  0.574)       0.464        0.052
  9   0.75    12.30      0.738          0.574    (  0.664)        0.164
 10   0.83    29.10      1.746          0.574    (  1.571)        1.172
 11   0.92     6.80      0.408       (  0.574)       0.367        0.041
 12   1.00     5.00      0.300       (  0.574)       0.270        0.030
             (Loss Rate Not Used)
    Sum =     100.0                                  Sum =     1.7
      Flood volume = Effective rainfall      0.14(In)
       times area       8.3(Ac.)/[(In)/(Ft.)] =       0.1(Ac.Ft)
      Total soil loss =      0.36(In)
      Total soil loss =     0.249(Ac.Ft)
      Total rainfall =      0.50(In)
      Flood volume =        4252.1 Cubic Feet
      Total soil loss =       10865.7 Cubic Feet
      ---------------------------------------------------------------------
       Peak flow rate of this hydrograph =      5.033(CFS)
      ---------------------------------------------------------------------
      +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                          1 - 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   5   Minute intervals ((CFS))

      ---------------------------------------------------------------------
 Time(h+m) Volume Ac.Ft   Q(CFS)  0        2.5       5.0       7.5      10.0
 ------------------------------------------------------------------------
   0+ 5       0.0004      0.06  Q         |         |         |         |
   0+10       0.0016      0.17  Q         |         |         |         |
   0+15       0.0030      0.20  QV        |         |         |         |
   0+20       0.0046      0.23  QV        |         |         |         |
   0+25       0.0063      0.26  |QV       |         |         |         |
   0+30       0.0083      0.29  |Q V      |         |         |         |
   0+35       0.0106      0.33  |Q  V     |         |         |         |
   0+40       0.0132      0.37  |Q   V    |         |         |         |
   0+45       0.0179      0.69  | Q    V  |         |         |         |
   0+50       0.0431      3.65  |         |   Q  V  |         |         |
   0+55       0.0777      5.03  |         |         Q         |V        |
   1+ 0       0.0882      1.53  |     Q   |         |         |     V   |
   1+ 5       0.0933      0.74  | Q       |         |         |       V |
   1+10       0.0959      0.37  |Q        |         |         |         V|
   1+15       0.0975      0.23  Q         |         |         |         V|
   1+20       0.0976      0.01  Q         |         |         |         V|
   1+25       0.0976      0.01  Q         |         |         |         V|
------------------------------------------------------------------------
```

```
       U n i t   H y d r o g r a p h   A n a l y s i s

       Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2008, Version 8.1
              Study date  02/28/22 File: ex232.out

++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
------------------------------------------------------------------------------

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       8.33(Ac.)  =      0.013 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       8.33(Ac.)  =      0.013 Sq. Mi.
Length along longest watercourse =     911.00(Ft.)
Length along longest watercourse measured to centroid =     456.00(Ft.)
Length along longest watercourse =      0.173 Mi.
Length along longest watercourse measured to centroid =      0.086 Mi.
Difference in elevation =      16.00(Ft.)
Slope along watercourse =     92.7333 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time =    0.062 Hr.
Lag time =     3.69 Min.
25% of lag time =     0.92 Min.
40% of lag time =     1.48 Min.
Unit time =     5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            0.80                 6.66

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            1.90                15.83

STORM EVENT (YEAR) =    2.00
Area Averaged 2-Year Rainfall =    0.800(In)
Area Averaged 100-Year Rainfall =    1.900(In)

Point rain (area averaged) =    0.800(In)
Areal adjustment factor =  100.00 %
Adjusted average point rain =    0.800(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     8.330           69.00          0.000
 Total Area Entered =      8.33(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-1     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
69.0  49.8      0.574     0.000        0.574       1.000      0.574
                                                 Sum (F) =   0.574
Area averaged mean soil loss (F) (In/Hr) =  0.574
Minimum soil loss rate ((In/Hr)) =  0.287
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.900
------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
-------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
    (hrs)                          Graph %           (CFS)
------------------------------------------------------------------------
```

1	0.083	135.344	29.460	2.473
2	0.167	270.688	47.995	4.029
3	0.250	406.032	12.120	1.017
4	0.333	541.376	5.371	0.451
5	0.417	676.720	2.918	0.245
6	0.500	812.064	2.136	0.179
			Sum = 100.000	Sum= 8.395

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	1.30	0.125	(0.574)	0.112	0.012
2	0.17	1.30	0.125	(0.574)	0.112	0.012
3	0.25	1.10	0.106	(0.574)	0.095	0.011
4	0.33	1.50	0.144	(0.574)	0.130	0.014
5	0.42	1.50	0.144	(0.574)	0.130	0.014
6	0.50	1.80	0.173	(0.574)	0.156	0.017
7	0.58	1.50	0.144	(0.574)	0.130	0.014
8	0.67	1.80	0.173	(0.574)	0.156	0.017
9	0.75	1.80	0.173	(0.574)	0.156	0.017
10	0.83	1.50	0.144	(0.574)	0.130	0.014
11	0.92	1.60	0.154	(0.574)	0.138	0.015
12	1.00	1.80	0.173	(0.574)	0.156	0.017
13	1.08	2.20	0.211	(0.574)	0.190	0.021
14	1.17	2.20	0.211	(0.574)	0.190	0.021
15	1.25	2.20	0.211	(0.574)	0.190	0.021
16	1.33	2.00	0.192	(0.574)	0.173	0.019
17	1.42	2.60	0.250	(0.574)	0.225	0.025
18	1.50	2.70	0.259	(0.574)	0.233	0.026
19	1.58	2.40	0.230	(0.574)	0.207	0.023
20	1.67	2.70	0.259	(0.574)	0.233	0.026
21	1.75	3.30	0.317	(0.574)	0.285	0.032
22	1.83	3.10	0.298	(0.574)	0.268	0.030
23	1.92	2.90	0.278	(0.574)	0.251	0.028
24	2.00	3.00	0.288	(0.574)	0.259	0.029
25	2.08	3.10	0.298	(0.574)	0.268	0.030
26	2.17	4.20	0.403	(0.574)	0.363	0.040
27	2.25	5.00	0.480	(0.574)	0.432	0.048
28	2.33	3.50	0.336	(0.574)	0.302	0.034
29	2.42	6.80	0.653	0.574	(0.587)	0.079
30	2.50	7.30	0.701	0.574	(0.631)	0.127
31	2.58	8.20	0.787	0.574	(0.708)	0.213
32	2.67	5.90	0.566	(0.574)	0.510	0.057
33	2.75	2.00	0.192	(0.574)	0.173	0.019
34	2.83	1.80	0.173	(0.574)	0.156	0.017
35	2.92	1.80	0.173	(0.574)	0.156	0.017
36	3.00	0.60	0.058	(0.574)	0.052	0.006
		(Loss Rate Not Used)			
Sum =		100.0			Sum = 1.2

Flood volume = Effective rainfall 0.10(In)
times area 8.3(Ac.)/[(In)/(Ft.)] = 0.1(Ac.Ft)
Total soil loss = 0.70(In)
Total soil loss = 0.488(Ac.Ft)
Total rainfall = 0.80(In)
Flood volume = 2934.9 Cubic Feet
Total soil loss = 21254.5 Cubic Feet

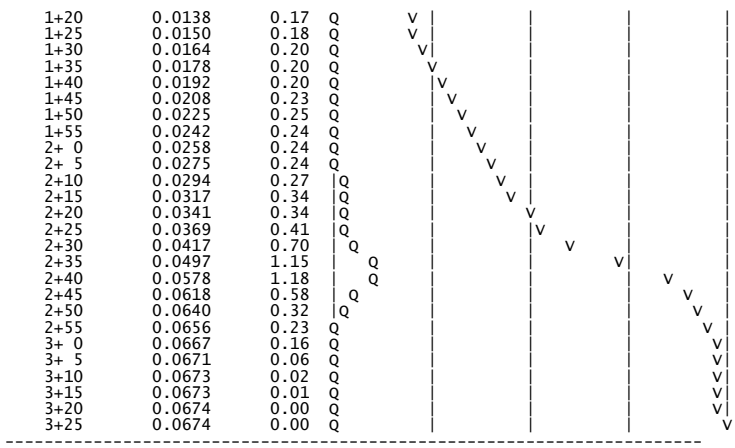
Peak flow rate of this hydrograph = 1.181(CFS)

++

3 - 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 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0002	0.03	Q				
0+10	0.0008	0.08	Q				
0+15	0.0014	0.09	Q				
0+20	0.0021	0.10	QV				
0+25	0.0028	0.11	QV				
0+30	0.0037	0.13	Q V				
0+35	0.0046	0.13	Q V				
0+40	0.0055	0.13	Q V				
0+45	0.0065	0.14	Q V				
0+50	0.0074	0.14	Q V				
0+55	0.0083	0.13	Q V				
1+ 0	0.0092	0.13	Q V				
1+ 5	0.0103	0.15	Q V				
1+10	0.0114	0.17	Q V				
1+15	0.0126	0.17	Q V				


1+20 0.0138 0.17
1+25 0.0150 0.18
1+30 0.0164 0.20
1+35 0.0178 0.20
1+40 0.0192 0.20
1+45 0.0208 0.23
1+50 0.0225 0.25
1+55 0.0242 0.24
2+ 0 0.0258 0.24
2+ 5 0.0275 0.24
2+10 0.0294 0.27
2+15 0.0317 0.34
2+20 0.0341 0.34
2+25 0.0369 0.41
2+30 0.0417 0.70
2+35 0.0497 1.15
2+40 0.0578 1.18
2+45 0.0618 0.58
2+50 0.0640 0.32
2+55 0.0656 0.23
3+ 0 0.0667 0.16
3+ 5 0.0671 0.06
3+10 0.0673 0.02
3+15 0.0673 0.01
3+20 0.0674 0.00
3+25 0.0674 0.00

```
       U n i t   H y d r o g r a p h   A n a l y s i s

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              Study date  02/28/22 File: ex262.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       8.33(Ac.)  =      0.013 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       8.33(Ac.)  =      0.013 Sq. Mi.
Length along longest watercourse =     911.00(Ft.)
Length along longest watercourse measured to centroid =     456.00(Ft.)
Length along longest watercourse =      0.173 Mi.
Length along longest watercourse measured to centroid =      0.086 Mi.
Difference in elevation =      16.00(Ft.)
Slope along watercourse =     92.7333 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time =    0.062 Hr.
Lag time =     3.69 Min.
25% of lag time =     0.92 Min.
40% of lag time =     1.48 Min.
Unit time =     5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            1.20                 10.00

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            2.50                 20.82

STORM EVENT (YEAR) =    2.00
Area Averaged 2-Year Rainfall =    1.200(In)
Area Averaged 100-Year Rainfall =    2.500(In)

Point rain (area averaged) =    1.200(In)
Areal adjustment factor =  100.00 %
Adjusted average point rain =    1.200(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     8.330           69.00          0.000
 Total Area Entered =      8.33(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-1     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
69.0  49.8      0.574     0.000        0.574       1.000      0.574
                                                 Sum (F) =   0.574
Area averaged mean soil loss (F) (In/Hr) =  0.574
Minimum soil loss rate ((In/Hr)) =  0.287
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.900
------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
    (hrs)                          Graph %           (CFS)
------------------------------------------------------------------------
```

1	0.083	135.344	29.460		2.473
2	0.167	270.688	47.995		4.029
3	0.250	406.032	12.120		1.017
4	0.333	541.376	5.371		0.451
5	0.417	676.720	2.918		0.245
6	0.500	812.064	2.136		0.179
			Sum = 100.000	Sum=	8.395

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.072	(0.574)	0.065	0.007
2	0.17	0.60	0.086	(0.574)	0.078	0.009
3	0.25	0.60	0.086	(0.574)	0.078	0.009
4	0.33	0.60	0.086	(0.574)	0.078	0.009
5	0.42	0.60	0.086	(0.574)	0.078	0.009
6	0.50	0.70	0.101	(0.574)	0.091	0.010
7	0.58	0.70	0.101	(0.574)	0.091	0.010
8	0.67	0.70	0.101	(0.574)	0.091	0.010
9	0.75	0.70	0.101	(0.574)	0.091	0.010
10	0.83	0.70	0.101	(0.574)	0.091	0.010
11	0.92	0.70	0.101	(0.574)	0.091	0.010
12	1.00	0.80	0.115	(0.574)	0.104	0.012
13	1.08	0.80	0.115	(0.574)	0.104	0.012
14	1.17	0.80	0.115	(0.574)	0.104	0.012
15	1.25	0.80	0.115	(0.574)	0.104	0.012
16	1.33	0.80	0.115	(0.574)	0.104	0.012
17	1.42	0.80	0.115	(0.574)	0.104	0.012
18	1.50	0.80	0.115	(0.574)	0.104	0.012
19	1.58	0.80	0.115	(0.574)	0.104	0.012
20	1.67	0.80	0.115	(0.574)	0.104	0.012
21	1.75	0.80	0.115	(0.574)	0.104	0.012
22	1.83	0.80	0.115	(0.574)	0.104	0.012
23	1.92	0.80	0.115	(0.574)	0.104	0.012
24	2.00	0.90	0.130	(0.574)	0.117	0.013
25	2.08	0.80	0.115	(0.574)	0.104	0.012
26	2.17	0.90	0.130	(0.574)	0.117	0.013
27	2.25	0.90	0.130	(0.574)	0.117	0.013
28	2.33	0.90	0.130	(0.574)	0.117	0.013
29	2.42	0.90	0.130	(0.574)	0.117	0.013
30	2.50	0.90	0.130	(0.574)	0.117	0.013
31	2.58	0.90	0.130	(0.574)	0.117	0.013
32	2.67	0.90	0.130	(0.574)	0.117	0.013
33	2.75	1.00	0.144	(0.574)	0.130	0.014
34	2.83	1.00	0.144	(0.574)	0.130	0.014
35	2.92	1.00	0.144	(0.574)	0.130	0.014
36	3.00	1.00	0.144	(0.574)	0.130	0.014
37	3.08	1.00	0.144	(0.574)	0.130	0.014
38	3.17	1.10	0.158	(0.574)	0.143	0.016
39	3.25	1.10	0.158	(0.574)	0.143	0.016
40	3.33	1.10	0.158	(0.574)	0.143	0.016
41	3.42	1.20	0.173	(0.574)	0.156	0.017
42	3.50	1.30	0.187	(0.574)	0.168	0.019
43	3.58	1.40	0.202	(0.574)	0.181	0.020
44	3.67	1.40	0.202	(0.574)	0.181	0.020
45	3.75	1.50	0.216	(0.574)	0.194	0.022
46	3.83	1.50	0.216	(0.574)	0.194	0.022
47	3.92	1.60	0.230	(0.574)	0.207	0.023
48	4.00	1.60	0.230	(0.574)	0.207	0.023
49	4.08	1.70	0.245	(0.574)	0.220	0.024
50	4.17	1.80	0.259	(0.574)	0.233	0.026
51	4.25	1.90	0.274	(0.574)	0.246	0.027
52	4.33	2.00	0.288	(0.574)	0.259	0.029
53	4.42	2.10	0.302	(0.574)	0.272	0.030
54	4.50	2.10	0.302	(0.574)	0.272	0.030
55	4.58	2.20	0.317	(0.574)	0.285	0.032
56	4.67	2.30	0.331	(0.574)	0.298	0.033
57	4.75	2.40	0.346	(0.574)	0.311	0.035
58	4.83	2.40	0.346	(0.574)	0.311	0.035
59	4.92	2.50	0.360	(0.574)	0.324	0.036
60	5.00	2.60	0.374	(0.574)	0.337	0.037
61	5.08	3.10	0.446	(0.574)	0.402	0.045
62	5.17	3.60	0.518	(0.574)	0.467	0.052
63	5.25	3.90	0.562	(0.574)	0.505	0.056
64	5.33	4.20	0.605	(0.574)	0.544	0.060
65	5.42	4.70	0.677	0.574	(0.609)	0.103
66	5.50	5.60	0.806	0.574	(0.726)	0.232
67	5.58	1.90	0.274	(0.574)	0.246	0.027
68	5.67	0.90	0.130	(0.574)	0.117	0.013
69	5.75	0.60	0.086	(0.574)	0.078	0.009
70	5.83	0.50	0.072	(0.574)	0.065	0.007
71	5.92	0.30	0.043	(0.574)	0.039	0.004
72	6.00	0.20	0.029	(0.574)	0.026	0.003

```
            (Loss Rate Not Used)
 Sum =     100.0                                  Sum =     1.6
    Flood volume = Effective rainfall      0.14(In)
     times area       8.3(Ac.)/[(In)/(Ft.)] =       0.1(Ac.Ft)
    Total soil loss =      1.06(In)
    Total soil loss =     0.739(Ac.Ft)
    Total rainfall =      1.20(In)
    Flood volume =        4099.5 Cubic Feet
    Total soil loss =       32185.0 Cubic Feet
    ---------------------------------------------------------------------
     Peak flow rate of this hydrograph =      1.160(CFS)
    ---------------------------------------------------------------------
    +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                          6 - 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   5   Minute intervals ((CFS))

    ---------------------------------------------------------------------
Time(h+m) Volume Ac.Ft   Q(CFS)  0        2.5       5.0       7.5      10.0
-------------------------------------------------------------------------
  0+ 5       0.0001      0.02  Q          |         |         |         |
  0+10       0.0005      0.05  Q          |         |         |         |
  0+15       0.0009      0.06  Q          |         |         |         |
  0+20       0.0014      0.07  Q          |         |         |         |
  0+25       0.0019      0.07  Q          |         |         |         |
  0+30       0.0024      0.08  QV         |         |         |         |
  0+35       0.0030      0.08  QV         |         |         |         |
  0+40       0.0035      0.08  QV         |         |         |         |
  0+45       0.0041      0.08  QV         |         |         |         |
  0+50       0.0047      0.08  QV         |         |         |         |
  0+55       0.0053      0.08  Q V        |         |         |         |
  1+ 0       0.0059      0.09  Q V        |         |         |         |
  1+ 5       0.0065      0.09  Q V        |         |         |         |
  1+10       0.0072      0.10  Q  V       |         |         |         |
  1+15       0.0078      0.10  Q  V       |         |         |         |
  1+20       0.0085      0.10  Q  V       |         |         |         |
  1+25       0.0092      0.10  Q  V       |         |         |         |
  1+30       0.0098      0.10  Q   V      |         |         |         |
  1+35       0.0105      0.10  Q   V      |         |         |         |
  1+40       0.0112      0.10  Q   V      |         |         |         |
  1+45       0.0118      0.10  Q    V     |         |         |         |
  1+50       0.0125      0.10  Q    V     |         |         |         |
  1+55       0.0132      0.10  Q    V     |         |         |         |
  2+ 0       0.0139      0.10  Q    V     |         |         |         |
  2+ 5       0.0146      0.10  Q     V    |         |         |         |
  2+10       0.0153      0.10  Q     V    |         |         |         |
  2+15       0.0160      0.11  Q     V    |         |         |         |
  2+20       0.0168      0.11  Q      V   |         |         |         |
  2+25       0.0175      0.11  Q      V   |         |         |         |
  2+30       0.0182      0.11  Q      V   |         |         |         |
  2+35       0.0190      0.11  Q       V  |         |         |         |
  2+40       0.0197      0.11  Q       V  |         |         |         |
  2+45       0.0205      0.11  Q       V  |         |         |         |
  2+50       0.0213      0.12  Q        V|         |         |         |
  2+55       0.0222      0.12  Q        V|         |         |         |
  3+ 0       0.0230      0.12  Q        V|         |         |         |
  3+ 5       0.0238      0.12  Q         V         |         |         |
  3+10       0.0247      0.12  Q         V         |         |         |
  3+15       0.0256      0.13  Q         V         |         |         |
  3+20       0.0265      0.13  Q         |V        |         |         |
  3+25       0.0274      0.14  Q         |V        |         |         |
  3+30       0.0284      0.15  Q         | V       |         |         |
  3+35       0.0295      0.16  Q         | V       |         |         |
  3+40       0.0306      0.16  Q         |  V      |         |         |
  3+45       0.0318      0.17  Q         |  V      |         |         |
  3+50       0.0330      0.18  Q         |   V     |         |         |
  3+55       0.0343      0.18  Q         |   V     |         |         |
  4+ 0       0.0356      0.19  Q         |    V    |         |         |
  4+ 5       0.0370      0.20  Q         |    V    |         |         |
  4+10       0.0384      0.21  Q         |     V   |         |         |
  4+15       0.0399      0.22  Q         |     V   |         |         |
  4+20       0.0414      0.23  Q         |      V  |         |         |
  4+25       0.0431      0.24  Q         |       V |         |         |
  4+30       0.0448      0.25  Q         |        V|         |         |
  4+35       0.0466      0.26  |Q         |        V|         |         |
  4+40       0.0484      0.27  |Q         |         V         |         |
  4+45       0.0503      0.28  |Q         |         |V        |         |
  4+50       0.0523      0.29  |Q         |         | V       |         |
  4+55       0.0543      0.29  |Q         |         |  V      |         |
  5+ 0       0.0564      0.30  |Q         |         |  V      |         |
  5+ 5       0.0586      0.33  |Q         |         |   V     |         |
  5+10       0.0612      0.38  |Q         |         |    V    |         |
  5+15       0.0642      0.43  |Q         |         |     V   |         |
  5+20       0.0674      0.46  |Q         |         |      V  |         |
  5+25       0.0715      0.60  | Q        |         |       V |         |
  5+30       0.0790      1.10  |   Q      |         |         |  V      |
```

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   5+35       0.0870      1.16  |   Q     |         |         |     V   |
   5+40       0.0901      0.45  |Q        |         |         |       V |
   5+45       0.0918      0.24  Q         |         |         |         V|
   5+50       0.0928      0.15  Q         |         |         |         V|
   5+55       0.0935      0.10  Q         |         |         |         V|
   6+ 0       0.0939      0.04  Q         |         |         |         V|
   6+ 5       0.0940      0.02  Q         |         |         |         V|
   6+10       0.0941      0.01  Q         |         |         |         V|
   6+15       0.0941      0.00  Q         |         |         |         V|
   6+20       0.0941      0.00  Q         |         |         |         V|
   6+25       0.0941      0.00  Q         |         |         |          V
-------------------------------------------------------------------------
```

```
       U n i t   H y d r o g r a p h   A n a l y s i s

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              Study date  02/28/22 File: ex2242.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       8.33(Ac.)  =      0.013 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       8.33(Ac.)  =      0.013 Sq. Mi.
Length along longest watercourse =     911.00(Ft.)
Length along longest watercourse measured to centroid =     456.00(Ft.)
Length along longest watercourse =      0.173 Mi.
Length along longest watercourse measured to centroid =      0.086 Mi.
Difference in elevation =      16.00(Ft.)
Slope along watercourse =     92.7333 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time =    0.062 Hr.
Lag time =     3.69 Min.
25% of lag time =     0.92 Min.
40% of lag time =     1.48 Min.
Unit time =     5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            1.80                 14.99

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            4.50                 37.48

STORM EVENT (YEAR) =    2.00
Area Averaged 2-Year Rainfall =    1.800(In)
Area Averaged 100-Year Rainfall =    4.500(In)

Point rain (area averaged) =    1.800(In)
Areal adjustment factor =  100.00 %
Adjusted average point rain =    1.800(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     8.330           69.00          0.000
 Total Area Entered =      8.33(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-1     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
69.0  49.8      0.574     0.000        0.574       1.000      0.574
                                                 Sum (F) =   0.574
Area averaged mean soil loss (F) (In/Hr) =  0.574
Minimum soil loss rate ((In/Hr)) =  0.287
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.900
------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
    (hrs)                          Graph %           (CFS)
------------------------------------------------------------------------
```

1	0.083	135.344	29.460		2.473
2	0.167	270.688	47.995		4.029
3	0.250	406.032	12.120		1.017
4	0.333	541.376	5.371		0.451
5	0.417	676.720	2.918		0.245
6	0.500	812.064	2.136		0.179
			Sum = 100.000	Sum=	8.395

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.014	(1.017)	0.013	0.001
2	0.17	0.07	0.014	(1.014)	0.013	0.001
3	0.25	0.07	0.014	(1.010)	0.013	0.001
4	0.33	0.10	0.022	(1.006)	0.019	0.002
5	0.42	0.10	0.022	(1.002)	0.019	0.002
6	0.50	0.10	0.022	(0.998)	0.019	0.002
7	0.58	0.10	0.022	(0.994)	0.019	0.002
8	0.67	0.10	0.022	(0.990)	0.019	0.002
9	0.75	0.10	0.022	(0.986)	0.019	0.002
10	0.83	0.13	0.029	(0.982)	0.026	0.003
11	0.92	0.13	0.029	(0.978)	0.026	0.003
12	1.00	0.13	0.029	(0.975)	0.026	0.003
13	1.08	0.10	0.022	(0.971)	0.019	0.002
14	1.17	0.10	0.022	(0.967)	0.019	0.002
15	1.25	0.10	0.022	(0.963)	0.019	0.002
16	1.33	0.10	0.022	(0.959)	0.019	0.002
17	1.42	0.10	0.022	(0.955)	0.019	0.002
18	1.50	0.10	0.022	(0.952)	0.019	0.002
19	1.58	0.10	0.022	(0.948)	0.019	0.002
20	1.67	0.10	0.022	(0.944)	0.019	0.002
21	1.75	0.10	0.022	(0.940)	0.019	0.002
22	1.83	0.13	0.029	(0.936)	0.026	0.003
23	1.92	0.13	0.029	(0.933)	0.026	0.003
24	2.00	0.13	0.029	(0.929)	0.026	0.003
25	2.08	0.13	0.029	(0.925)	0.026	0.003
26	2.17	0.13	0.029	(0.921)	0.026	0.003
27	2.25	0.13	0.029	(0.918)	0.026	0.003
28	2.33	0.13	0.029	(0.914)	0.026	0.003
29	2.42	0.13	0.029	(0.910)	0.026	0.003
30	2.50	0.13	0.029	(0.906)	0.026	0.003
31	2.58	0.17	0.036	(0.903)	0.032	0.004
32	2.67	0.17	0.036	(0.899)	0.032	0.004
33	2.75	0.17	0.036	(0.895)	0.032	0.004
34	2.83	0.17	0.036	(0.892)	0.032	0.004
35	2.92	0.17	0.036	(0.888)	0.032	0.004
36	3.00	0.17	0.036	(0.884)	0.032	0.004
37	3.08	0.17	0.036	(0.881)	0.032	0.004
38	3.17	0.17	0.036	(0.877)	0.032	0.004
39	3.25	0.17	0.036	(0.873)	0.032	0.004
40	3.33	0.17	0.036	(0.870)	0.032	0.004
41	3.42	0.17	0.036	(0.866)	0.032	0.004
42	3.50	0.17	0.036	(0.862)	0.032	0.004
43	3.58	0.17	0.036	(0.859)	0.032	0.004
44	3.67	0.17	0.036	(0.855)	0.032	0.004
45	3.75	0.17	0.036	(0.852)	0.032	0.004
46	3.83	0.20	0.043	(0.848)	0.039	0.004
47	3.92	0.20	0.043	(0.844)	0.039	0.004
48	4.00	0.20	0.043	(0.841)	0.039	0.004
49	4.08	0.20	0.043	(0.837)	0.039	0.004
50	4.17	0.20	0.043	(0.834)	0.039	0.004
51	4.25	0.20	0.043	(0.830)	0.039	0.004
52	4.33	0.23	0.050	(0.827)	0.045	0.005
53	4.42	0.23	0.050	(0.823)	0.045	0.005
54	4.50	0.23	0.050	(0.820)	0.045	0.005
55	4.58	0.23	0.050	(0.816)	0.045	0.005
56	4.67	0.23	0.050	(0.813)	0.045	0.005
57	4.75	0.23	0.050	(0.809)	0.045	0.005
58	4.83	0.27	0.058	(0.806)	0.052	0.006
59	4.92	0.27	0.058	(0.802)	0.052	0.006
60	5.00	0.27	0.058	(0.799)	0.052	0.006
61	5.08	0.20	0.043	(0.795)	0.039	0.004
62	5.17	0.20	0.043	(0.792)	0.039	0.004
63	5.25	0.20	0.043	(0.788)	0.039	0.004
64	5.33	0.23	0.050	(0.785)	0.045	0.005
65	5.42	0.23	0.050	(0.781)	0.045	0.005
66	5.50	0.23	0.050	(0.778)	0.045	0.005
67	5.58	0.27	0.058	(0.775)	0.052	0.006
68	5.67	0.27	0.058	(0.771)	0.052	0.006
69	5.75	0.27	0.058	(0.768)	0.052	0.006
70	5.83	0.27	0.058	(0.764)	0.052	0.006
71	5.92	0.27	0.058	(0.761)	0.052	0.006
72	6.00	0.27	0.058	(0.758)	0.052	0.006

73	6.08	0.30	0.065	(0.754)	0.058	0.006
74	6.17	0.30	0.065	(0.751)	0.058	0.006
75	6.25	0.30	0.065	(0.748)	0.058	0.006
76	6.33	0.30	0.065	(0.744)	0.058	0.006
77	6.42	0.30	0.065	(0.741)	0.058	0.006
78	6.50	0.30	0.065	(0.738)	0.058	0.006
79	6.58	0.33	0.072	(0.734)	0.065	0.007
80	6.67	0.33	0.072	(0.731)	0.065	0.007
81	6.75	0.33	0.072	(0.728)	0.065	0.007
82	6.83	0.33	0.072	(0.724)	0.065	0.007
83	6.92	0.33	0.072	(0.721)	0.065	0.007
84	7.00	0.33	0.072	(0.718)	0.065	0.007
85	7.08	0.33	0.072	(0.715)	0.065	0.007
86	7.17	0.33	0.072	(0.711)	0.065	0.007
87	7.25	0.33	0.072	(0.708)	0.065	0.007
88	7.33	0.37	0.079	(0.705)	0.071	0.008
89	7.42	0.37	0.079	(0.702)	0.071	0.008
90	7.50	0.37	0.079	(0.698)	0.071	0.008
91	7.58	0.40	0.086	(0.695)	0.078	0.009
92	7.67	0.40	0.086	(0.692)	0.078	0.009
93	7.75	0.40	0.086	(0.689)	0.078	0.009
94	7.83	0.43	0.094	(0.686)	0.084	0.009
95	7.92	0.43	0.094	(0.682)	0.084	0.009
96	8.00	0.43	0.094	(0.679)	0.084	0.009
97	8.08	0.50	0.108	(0.676)	0.097	0.011
98	8.17	0.50	0.108	(0.673)	0.097	0.011
99	8.25	0.50	0.108	(0.670)	0.097	0.011
100	8.33	0.50	0.108	(0.667)	0.097	0.011
101	8.42	0.50	0.108	(0.664)	0.097	0.011
102	8.50	0.50	0.108	(0.660)	0.097	0.011
103	8.58	0.53	0.115	(0.657)	0.104	0.012
104	8.67	0.53	0.115	(0.654)	0.104	0.012
105	8.75	0.53	0.115	(0.651)	0.104	0.012
106	8.83	0.57	0.122	(0.648)	0.110	0.012
107	8.92	0.57	0.122	(0.645)	0.110	0.012
108	9.00	0.57	0.122	(0.642)	0.110	0.012
109	9.08	0.63	0.137	(0.639)	0.123	0.014
110	9.17	0.63	0.137	(0.636)	0.123	0.014
111	9.25	0.63	0.137	(0.633)	0.123	0.014
112	9.33	0.67	0.144	(0.630)	0.130	0.014
113	9.42	0.67	0.144	(0.627)	0.130	0.014
114	9.50	0.67	0.144	(0.624)	0.130	0.014
115	9.58	0.70	0.151	(0.621)	0.136	0.015
116	9.67	0.70	0.151	(0.618)	0.136	0.015
117	9.75	0.70	0.151	(0.615)	0.136	0.015
118	9.83	0.73	0.158	(0.612)	0.143	0.016
119	9.92	0.73	0.158	(0.609)	0.143	0.016
120	10.00	0.73	0.158	(0.606)	0.143	0.016
121	10.08	0.50	0.108	(0.603)	0.097	0.011
122	10.17	0.50	0.108	(0.600)	0.097	0.011
123	10.25	0.50	0.108	(0.597)	0.097	0.011
124	10.33	0.50	0.108	(0.594)	0.097	0.011
125	10.42	0.50	0.108	(0.592)	0.097	0.011
126	10.50	0.50	0.108	(0.589)	0.097	0.011
127	10.58	0.67	0.144	(0.586)	0.130	0.014
128	10.67	0.67	0.144	(0.583)	0.130	0.014
129	10.75	0.67	0.144	(0.580)	0.130	0.014
130	10.83	0.67	0.144	(0.577)	0.130	0.014
131	10.92	0.67	0.144	(0.574)	0.130	0.014
132	11.00	0.67	0.144	(0.572)	0.130	0.014
133	11.08	0.63	0.137	(0.569)	0.123	0.014
134	11.17	0.63	0.137	(0.566)	0.123	0.014
135	11.25	0.63	0.137	(0.563)	0.123	0.014
136	11.33	0.63	0.137	(0.560)	0.123	0.014
137	11.42	0.63	0.137	(0.558)	0.123	0.014
138	11.50	0.63	0.137	(0.555)	0.123	0.014
139	11.58	0.57	0.122	(0.552)	0.110	0.012
140	11.67	0.57	0.122	(0.549)	0.110	0.012
141	11.75	0.57	0.122	(0.547)	0.110	0.012
142	11.83	0.60	0.130	(0.544)	0.117	0.013
143	11.92	0.60	0.130	(0.541)	0.117	0.013
144	12.00	0.60	0.130	(0.538)	0.117	0.013
145	12.08	0.83	0.180	(0.536)	0.162	0.018
146	12.17	0.83	0.180	(0.533)	0.162	0.018
147	12.25	0.83	0.180	(0.530)	0.162	0.018
148	12.33	0.87	0.187	(0.528)	0.168	0.019
149	12.42	0.87	0.187	(0.525)	0.168	0.019
150	12.50	0.87	0.187	(0.522)	0.168	0.019
151	12.58	0.93	0.202	(0.520)	0.181	0.020
152	12.67	0.93	0.202	(0.517)	0.181	0.020
153	12.75	0.93	0.202	(0.515)	0.181	0.020
154	12.83	0.97	0.209	(0.512)	0.188	0.021
155	12.92	0.97	0.209	(0.509)	0.188	0.021
156	13.00	0.97	0.209	(0.507)	0.188	0.021
157	13.08	1.13	0.245	(0.504)	0.220	0.024
158	13.17	1.13	0.245	(0.502)	0.220	0.024
159	13.25	1.13	0.245	(0.499)	0.220	0.024

160	13.33	1.13	0.245	(0.497)	0.220	0.024
161	13.42	1.13	0.245	(0.494)	0.220	0.024
162	13.50	1.13	0.245	(0.492)	0.220	0.024
163	13.58	0.77	0.166	(0.489)	0.149	0.017
164	13.67	0.77	0.166	(0.487)	0.149	0.017
165	13.75	0.77	0.166	(0.484)	0.149	0.017
166	13.83	0.77	0.166	(0.482)	0.149	0.017
167	13.92	0.77	0.166	(0.479)	0.149	0.017
168	14.00	0.77	0.166	(0.477)	0.149	0.017
169	14.08	0.90	0.194	(0.474)	0.175	0.019
170	14.17	0.90	0.194	(0.472)	0.175	0.019
171	14.25	0.90	0.194	(0.469)	0.175	0.019
172	14.33	0.87	0.187	(0.467)	0.168	0.019
173	14.42	0.87	0.187	(0.465)	0.168	0.019
174	14.50	0.87	0.187	(0.462)	0.168	0.019
175	14.58	0.87	0.187	(0.460)	0.168	0.019
176	14.67	0.87	0.187	(0.458)	0.168	0.019
177	14.75	0.87	0.187	(0.455)	0.168	0.019
178	14.83	0.83	0.180	(0.453)	0.162	0.018
179	14.92	0.83	0.180	(0.451)	0.162	0.018
180	15.00	0.83	0.180	(0.448)	0.162	0.018
181	15.08	0.80	0.173	(0.446)	0.156	0.017
182	15.17	0.80	0.173	(0.444)	0.156	0.017
183	15.25	0.80	0.173	(0.441)	0.156	0.017
184	15.33	0.77	0.166	(0.439)	0.149	0.017
185	15.42	0.77	0.166	(0.437)	0.149	0.017
186	15.50	0.77	0.166	(0.435)	0.149	0.017
187	15.58	0.63	0.137	(0.432)	0.123	0.014
188	15.67	0.63	0.137	(0.430)	0.123	0.014
189	15.75	0.63	0.137	(0.428)	0.123	0.014
190	15.83	0.63	0.137	(0.426)	0.123	0.014
191	15.92	0.63	0.137	(0.424)	0.123	0.014
192	16.00	0.63	0.137	(0.421)	0.123	0.014
193	16.08	0.13	0.029	(0.419)	0.026	0.003
194	16.17	0.13	0.029	(0.417)	0.026	0.003
195	16.25	0.13	0.029	(0.415)	0.026	0.003
196	16.33	0.13	0.029	(0.413)	0.026	0.003
197	16.42	0.13	0.029	(0.411)	0.026	0.003
198	16.50	0.13	0.029	(0.409)	0.026	0.003
199	16.58	0.10	0.022	(0.407)	0.019	0.002
200	16.67	0.10	0.022	(0.405)	0.019	0.002
201	16.75	0.10	0.022	(0.403)	0.019	0.002
202	16.83	0.10	0.022	(0.401)	0.019	0.002
203	16.92	0.10	0.022	(0.398)	0.019	0.002
204	17.00	0.10	0.022	(0.396)	0.019	0.002
205	17.08	0.17	0.036	(0.394)	0.032	0.004
206	17.17	0.17	0.036	(0.392)	0.032	0.004
207	17.25	0.17	0.036	(0.390)	0.032	0.004
208	17.33	0.17	0.036	(0.389)	0.032	0.004
209	17.42	0.17	0.036	(0.387)	0.032	0.004
210	17.50	0.17	0.036	(0.385)	0.032	0.004
211	17.58	0.17	0.036	(0.383)	0.032	0.004
212	17.67	0.17	0.036	(0.381)	0.032	0.004
213	17.75	0.17	0.036	(0.379)	0.032	0.004
214	17.83	0.13	0.029	(0.377)	0.026	0.003
215	17.92	0.13	0.029	(0.375)	0.026	0.003
216	18.00	0.13	0.029	(0.373)	0.026	0.003
217	18.08	0.13	0.029	(0.371)	0.026	0.003
218	18.17	0.13	0.029	(0.370)	0.026	0.003
219	18.25	0.13	0.029	(0.368)	0.026	0.003
220	18.33	0.13	0.029	(0.366)	0.026	0.003
221	18.42	0.13	0.029	(0.364)	0.026	0.003
222	18.50	0.13	0.029	(0.363)	0.026	0.003
223	18.58	0.10	0.022	(0.361)	0.019	0.002
224	18.67	0.10	0.022	(0.359)	0.019	0.002
225	18.75	0.10	0.022	(0.357)	0.019	0.002
226	18.83	0.07	0.014	(0.356)	0.013	0.001
227	18.92	0.07	0.014	(0.354)	0.013	0.001
228	19.00	0.07	0.014	(0.352)	0.013	0.001
229	19.08	0.10	0.022	(0.351)	0.019	0.002
230	19.17	0.10	0.022	(0.349)	0.019	0.002
231	19.25	0.10	0.022	(0.347)	0.019	0.002
232	19.33	0.13	0.029	(0.346)	0.026	0.003
233	19.42	0.13	0.029	(0.344)	0.026	0.003
234	19.50	0.13	0.029	(0.342)	0.026	0.003
235	19.58	0.10	0.022	(0.341)	0.019	0.002
236	19.67	0.10	0.022	(0.339)	0.019	0.002
237	19.75	0.10	0.022	(0.338)	0.019	0.002
238	19.83	0.07	0.014	(0.336)	0.013	0.001
239	19.92	0.07	0.014	(0.335)	0.013	0.001
240	20.00	0.07	0.014	(0.333)	0.013	0.001
241	20.08	0.10	0.022	(0.332)	0.019	0.002
242	20.17	0.10	0.022	(0.330)	0.019	0.002
243	20.25	0.10	0.022	(0.329)	0.019	0.002
244	20.33	0.10	0.022	(0.328)	0.019	0.002
245	20.42	0.10	0.022	(0.326)	0.019	0.002
246	20.50	0.10	0.022	(0.325)	0.019	0.002

247	20.58	0.10	0.022	(	0.323)	0.019	0.002
248	20.67	0.10	0.022	(	0.322)	0.019	0.002
249	20.75	0.10	0.022	(	0.321)	0.019	0.002
250	20.83	0.07	0.014	(	0.319)	0.013	0.001
251	20.92	0.07	0.014	(	0.318)	0.013	0.001
252	21.00	0.07	0.014	(	0.317)	0.013	0.001
253	21.08	0.10	0.022	(	0.316)	0.019	0.002
254	21.17	0.10	0.022	(	0.314)	0.019	0.002
255	21.25	0.10	0.022	(	0.313)	0.019	0.002
256	21.33	0.07	0.014	(	0.312)	0.013	0.001
257	21.42	0.07	0.014	(	0.311)	0.013	0.001
258	21.50	0.07	0.014	(	0.310)	0.013	0.001
259	21.58	0.10	0.022	(	0.308)	0.019	0.002
260	21.67	0.10	0.022	(	0.307)	0.019	0.002
261	21.75	0.10	0.022	(	0.306)	0.019	0.002
262	21.83	0.07	0.014	(	0.305)	0.013	0.001
263	21.92	0.07	0.014	(	0.304)	0.013	0.001
264	22.00	0.07	0.014	(	0.303)	0.013	0.001
265	22.08	0.10	0.022	(	0.302)	0.019	0.002
266	22.17	0.10	0.022	(	0.301)	0.019	0.002
267	22.25	0.10	0.022	(	0.300)	0.019	0.002
268	22.33	0.07	0.014	(	0.299)	0.013	0.001
269	22.42	0.07	0.014	(	0.298)	0.013	0.001
270	22.50	0.07	0.014	(	0.297)	0.013	0.001
271	22.58	0.07	0.014	(	0.297)	0.013	0.001
272	22.67	0.07	0.014	(	0.296)	0.013	0.001
273	22.75	0.07	0.014	(	0.295)	0.013	0.001
274	22.83	0.07	0.014	(	0.294)	0.013	0.001
275	22.92	0.07	0.014	(	0.293)	0.013	0.001
276	23.00	0.07	0.014	(	0.293)	0.013	0.001
277	23.08	0.07	0.014	(	0.292)	0.013	0.001
278	23.17	0.07	0.014	(	0.291)	0.013	0.001
279	23.25	0.07	0.014	(	0.291)	0.013	0.001
280	23.33	0.07	0.014	(	0.290)	0.013	0.001
281	23.42	0.07	0.014	(	0.290)	0.013	0.001
282	23.50	0.07	0.014	(	0.289)	0.013	0.001
283	23.58	0.07	0.014	(	0.289)	0.013	0.001
284	23.67	0.07	0.014	(	0.288)	0.013	0.001
285	23.75	0.07	0.014	(	0.288)	0.013	0.001
286	23.83	0.07	0.014	(	0.287)	0.013	0.001
287	23.92	0.07	0.014	(	0.287)	0.013	0.001
288	24.00	0.07	0.014	(	0.287)	0.013	0.001

(Loss Rate Not Used)

Sum = 100.0 Sum = 2.2

Flood volume = Effective rainfall 0.18(In)
times area 8.3(Ac.)/[(In)/(Ft.)] = 0.1(Ac.Ft)
Total soil loss = 1.62(In)
Total soil loss = 1.125(Ac.Ft)
Total rainfall = 1.80(In)
Flood volume = 5442.7 Cubic Feet
Total soil loss = 48984.6 Cubic Feet

Peak flow rate of this hydrograph = 0.206(CFS)

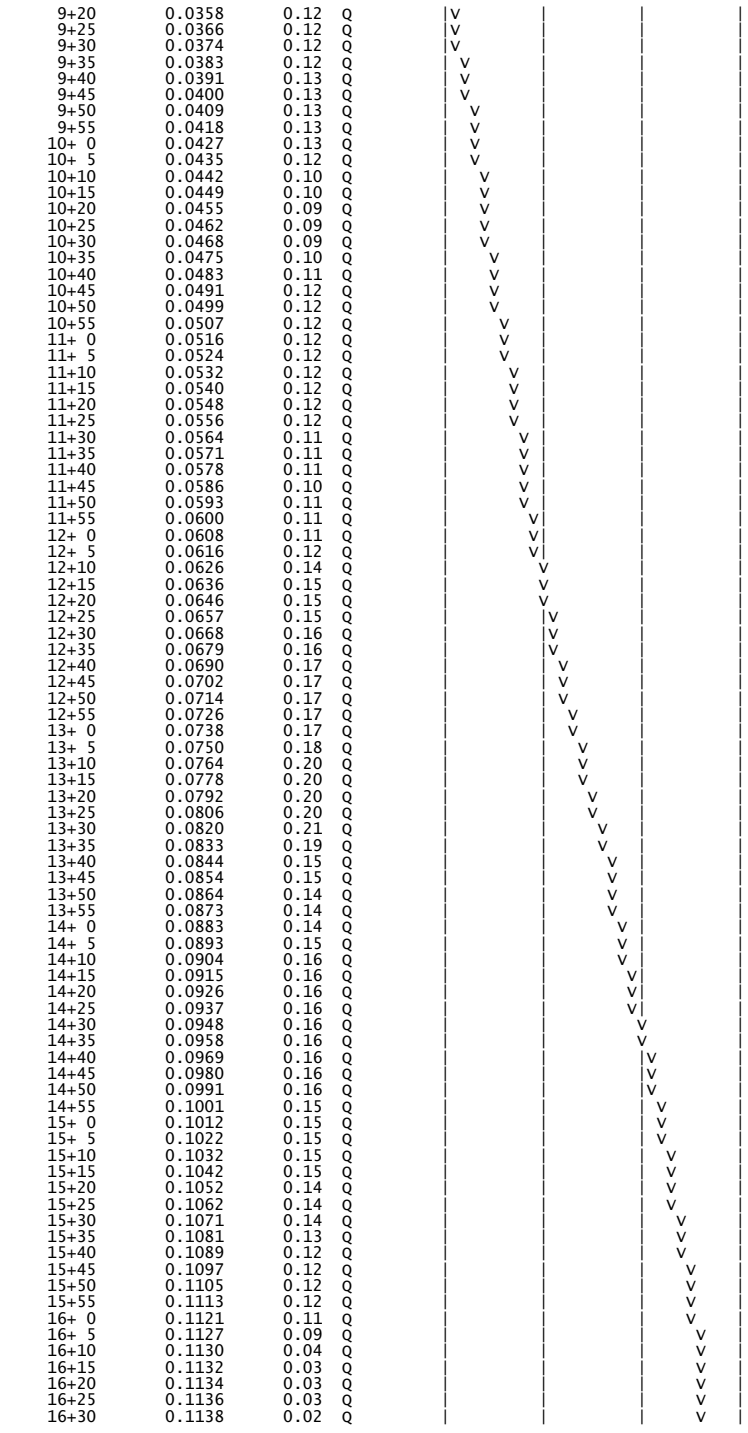
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24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0000	0.00	Q	|	|	|	|
0+10	0.0001	0.01	Q	|	|	|	|
0+15	0.0002	0.01	Q	|	|	|	|
0+20	0.0003	0.01	Q	|	|	|	|
0+25	0.0004	0.02	Q	|	|	|	|
0+30	0.0005	0.02	Q	|	|	|	|
0+35	0.0006	0.02	Q	|	|	|	|
0+40	0.0007	0.02	Q	|	|	|	|
0+45	0.0009	0.02	Q	|	|	|	|
0+50	0.0010	0.02	Q	|	|	|	|
0+55	0.0012	0.02	Q	|	|	|	|
1+ 0	0.0013	0.02	Q	|	|	|	|
1+ 5	0.0015	0.02	Q	|	|	|	|
1+10	0.0016	0.02	Q	|	|	|	|
1+15	0.0017	0.02	Q	|	|	|	|
1+20	0.0019	0.02	Q	|	|	|	|
1+25	0.0020	0.02	Q	|	|	|	|
1+30	0.0021	0.02	Q	|	|	|	|
1+35	0.0022	0.02	Q	|	|	|	|
1+40	0.0024	0.02	Q	|	|	|	|
1+45	0.0025	0.02	Q	|	|	|	|
1+50	0.0026	0.02	Q	|	|	|	|
1+55	0.0028	0.02	Q	|	|	|	|
2+ 0	0.0029	0.02	Q	|	|	|	|

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2+ 5       0.0031      0.02  Q          |          |          |          |
2+10       0.0033      0.02  QV         |          |          |          |
2+15       0.0034      0.02  QV         |          |          |          |
2+20       0.0036      0.02  QV         |          |          |          |
2+25       0.0038      0.02  QV         |          |          |          |
2+30       0.0039      0.02  QV         |          |          |          |
2+35       0.0041      0.03  QV         |          |          |          |
2+40       0.0043      0.03  QV         |          |          |          |
2+45       0.0045      0.03  QV         |          |          |          |
2+50       0.0047      0.03  QV         |          |          |          |
2+55       0.0049      0.03  QV         |          |          |          |
3+ 0       0.0051      0.03  QV         |          |          |          |
3+ 5       0.0054      0.03  QV         |          |          |          |
3+10       0.0056      0.03  QV         |          |          |          |
3+15       0.0058      0.03  QV         |          |          |          |
3+20       0.0060      0.03  QV         |          |          |          |
3+25       0.0062      0.03  QV         |          |          |          |
3+30       0.0064      0.03  Q V        |          |          |          |
3+35       0.0066      0.03  Q V        |          |          |          |
3+40       0.0068      0.03  Q V        |          |          |          |
3+45       0.0070      0.03  Q V        |          |          |          |
3+50       0.0072      0.03  Q V        |          |          |          |
3+55       0.0075      0.03  Q V        |          |          |          |
4+ 0       0.0077      0.04  Q V        |          |          |          |
4+ 5       0.0080      0.04  Q V        |          |          |          |
4+10       0.0082      0.04  Q V        |          |          |          |
4+15       0.0085      0.04  Q V        |          |          |          |
4+20       0.0087      0.04  Q V        |          |          |          |
4+25       0.0090      0.04  Q V        |          |          |          |
4+30       0.0093      0.04  Q V        |          |          |          |
4+35       0.0096      0.04  Q  V       |          |          |          |
4+40       0.0099      0.04  Q  V       |          |          |          |
4+45       0.0102      0.04  Q  V       |          |          |          |
4+50       0.0105      0.04  Q  V       |          |          |          |
4+55       0.0108      0.05  Q  V       |          |          |          |
5+ 0       0.0111      0.05  Q  V       |          |          |          |
5+ 5       0.0114      0.04  Q  V       |          |          |          |
5+10       0.0117      0.04  Q  V       |          |          |          |
5+15       0.0120      0.04  Q  V       |          |          |          |
5+20       0.0122      0.04  Q  V       |          |          |          |
5+25       0.0125      0.04  Q   V      |          |          |          |
5+30       0.0128      0.04  Q   V      |          |          |          |
5+35       0.0131      0.04  Q   V      |          |          |          |
5+40       0.0134      0.05  Q   V      |          |          |          |
5+45       0.0138      0.05  Q   V      |          |          |          |
5+50       0.0141      0.05  Q   V      |          |          |          |
5+55       0.0144      0.05  Q   V      |          |          |          |
6+ 0       0.0147      0.05  Q   V      |          |          |          |
6+ 5       0.0151      0.05  Q   V      |          |          |          |
6+10       0.0155      0.05  Q   V      |          |          |          |
6+15       0.0158      0.05  Q    V     |          |          |          |
6+20       0.0162      0.05  Q    V     |          |          |          |
6+25       0.0166      0.05  Q    V     |          |          |          |
6+30       0.0170      0.05  Q    V     |          |          |          |
6+35       0.0173      0.06  Q    V     |          |          |          |
6+40       0.0177      0.06  Q    V     |          |          |          |
6+45       0.0182      0.06  Q    V     |          |          |          |
6+50       0.0186      0.06  Q    V     |          |          |          |
6+55       0.0190      0.06  Q     V    |          |          |          |
7+ 0       0.0194      0.06  Q     V    |          |          |          |
7+ 5       0.0198      0.06  Q     V    |          |          |          |
7+10       0.0202      0.06  Q     V    |          |          |          |
7+15       0.0207      0.06  Q     V    |          |          |          |
7+20       0.0211      0.06  Q     V    |          |          |          |
7+25       0.0215      0.07  Q     V    |          |          |          |
7+30       0.0220      0.07  Q      V   |          |          |          |
7+35       0.0225      0.07  Q      V   |          |          |          |
7+40       0.0229      0.07  Q      V   |          |          |          |
7+45       0.0234      0.07  Q      V   |          |          |          |
7+50       0.0239      0.07  Q      V   |          |          |          |
7+55       0.0245      0.08  Q      V   |          |          |          |
8+ 0       0.0250      0.08  Q       V  |          |          |          |
8+ 5       0.0256      0.08  Q       V  |          |          |          |
8+10       0.0262      0.09  Q       V  |          |          |          |
8+15       0.0268      0.09  Q       V  |          |          |          |
8+20       0.0274      0.09  Q       V  |          |          |          |
8+25       0.0280      0.09  Q       V  |          |          |          |
8+30       0.0287      0.09  Q        V|          |          |          |
8+35       0.0293      0.09  Q        V|          |          |          |
8+40       0.0300      0.10  Q        V|          |          |          |
8+45       0.0306      0.10  Q        V|          |          |          |
8+50       0.0313      0.10  Q         V          |          |          |
8+55       0.0320      0.10  Q         V          |          |          |
9+ 0       0.0327      0.10  Q         V          |          |          |
9+ 5       0.0334      0.11  Q         V          |          |          |
9+10       0.0342      0.11  Q         V          |          |          |
9+15       0.0350      0.11  Q         |V         |          |          |
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9+20	0.0358	0.12	Q	
9+25	0.0366	0.12	Q	
9+30	0.0374	0.12	Q	
9+35	0.0383	0.12	Q	
9+40	0.0391	0.13	Q	
9+45	0.0400	0.13	Q	
9+50	0.0409	0.13	Q	
9+55	0.0418	0.13	Q	
10+ 0	0.0427	0.13	Q	
10+ 5	0.0435	0.12	Q	
10+10	0.0442	0.10	Q	
10+15	0.0449	0.10	Q	
10+20	0.0455	0.09	Q	
10+25	0.0462	0.09	Q	
10+30	0.0468	0.09	Q	
10+35	0.0475	0.10	Q	
10+40	0.0483	0.11	Q	
10+45	0.0491	0.12	Q	
10+50	0.0499	0.12	Q	
10+55	0.0507	0.12	Q	
11+ 0	0.0516	0.12	Q	
11+ 5	0.0524	0.12	Q	
11+10	0.0532	0.12	Q	
11+15	0.0540	0.12	Q	
11+20	0.0548	0.12	Q	
11+25	0.0556	0.12	Q	
11+30	0.0564	0.11	Q	
11+35	0.0571	0.11	Q	
11+40	0.0578	0.11	Q	
11+45	0.0586	0.10	Q	
11+50	0.0593	0.11	Q	
11+55	0.0600	0.11	Q	
12+ 0	0.0608	0.11	Q	
12+ 5	0.0616	0.12	Q	
12+10	0.0626	0.14	Q	
12+15	0.0636	0.15	Q	
12+20	0.0646	0.15	Q	
12+25	0.0657	0.15	Q	
12+30	0.0668	0.16	Q	
12+35	0.0679	0.16	Q	
12+40	0.0690	0.17	Q	
12+45	0.0702	0.17	Q	
12+50	0.0714	0.17	Q	
12+55	0.0726	0.17	Q	
13+ 0	0.0738	0.17	Q	
13+ 5	0.0750	0.18	Q	
13+10	0.0764	0.20	Q	
13+15	0.0778	0.20	Q	
13+20	0.0792	0.20	Q	
13+25	0.0806	0.20	Q	
13+30	0.0820	0.21	Q	
13+35	0.0833	0.19	Q	
13+40	0.0844	0.15	Q	
13+45	0.0854	0.15	Q	
13+50	0.0864	0.14	Q	
13+55	0.0873	0.14	Q	
14+ 0	0.0883	0.14	Q	
14+ 5	0.0893	0.15	Q	
14+10	0.0904	0.16	Q	
14+15	0.0915	0.16	Q	
14+20	0.0926	0.16	Q	
14+25	0.0937	0.16	Q	
14+30	0.0948	0.16	Q	
14+35	0.0958	0.16	Q	
14+40	0.0969	0.16	Q	
14+45	0.0980	0.16	Q	
14+50	0.0991	0.16	Q	
14+55	0.1001	0.15	Q	
15+ 0	0.1012	0.15	Q	
15+ 5	0.1022	0.15	Q	
15+10	0.1032	0.15	Q	
15+15	0.1042	0.15	Q	
15+20	0.1052	0.14	Q	
15+25	0.1062	0.14	Q	
15+30	0.1071	0.14	Q	
15+35	0.1081	0.13	Q	
15+40	0.1089	0.12	Q	
15+45	0.1097	0.12	Q	
15+50	0.1105	0.12	Q	
15+55	0.1113	0.12	Q	
16+ 0	0.1121	0.11	Q	
16+ 5	0.1127	0.09	Q	
16+10	0.1130	0.04	Q	
16+15	0.1132	0.03	Q	
16+20	0.1134	0.03	Q	
16+25	0.1136	0.03	Q	
16+30	0.1138	0.02	Q	

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16+35       0.1139      0.02  Q         |          |          |     V    |
16+40       0.1141      0.02  Q         |          |          |     V    |
16+45       0.1142      0.02  Q         |          |          |     V    |
16+50       0.1143      0.02  Q         |          |          |     V    |
16+55       0.1144      0.02  Q         |          |          |     V    |
17+ 0       0.1146      0.02  Q         |          |          |     V    |
17+ 5       0.1147      0.02  Q         |          |          |     V    |
17+10       0.1149      0.03  Q         |          |          |     V    |
17+15       0.1151      0.03  Q         |          |          |     V    |
17+20       0.1153      0.03  Q         |          |          |     V    |
17+25       0.1155      0.03  Q         |          |          |     V    |
17+30       0.1157      0.03  Q         |          |          |      V   |
17+35       0.1159      0.03  Q         |          |          |      V   |
17+40       0.1161      0.03  Q         |          |          |      V   |
17+45       0.1163      0.03  Q         |          |          |      V   |
17+50       0.1165      0.03  Q         |          |          |      V   |
17+55       0.1167      0.03  Q         |          |          |      V   |
18+ 0       0.1169      0.02  Q         |          |          |      V   |
18+ 5       0.1171      0.02  Q         |          |          |      V   |
18+10       0.1172      0.02  Q         |          |          |      V   |
18+15       0.1174      0.02  Q         |          |          |      V   |
18+20       0.1176      0.02  Q         |          |          |      V   |
18+25       0.1177      0.02  Q         |          |          |      V   |
18+30       0.1179      0.02  Q         |          |          |      V   |
18+35       0.1180      0.02  Q         |          |          |      V   |
18+40       0.1182      0.02  Q         |          |          |      V   |
18+45       0.1183      0.02  Q         |          |          |      V   |
18+50       0.1184      0.02  Q         |          |          |      V   |
18+55       0.1185      0.01  Q         |          |          |      V   |
19+ 0       0.1186      0.01  Q         |          |          |      V   |
19+ 5       0.1187      0.01  Q         |          |          |       V  |
19+10       0.1188      0.02  Q         |          |          |       V  |
19+15       0.1189      0.02  Q         |          |          |       V  |
19+20       0.1191      0.02  Q         |          |          |       V  |
19+25       0.1192      0.02  Q         |          |          |       V  |
19+30       0.1194      0.02  Q         |          |          |       V  |
19+35       0.1195      0.02  Q         |          |          |       V  |
19+40       0.1197      0.02  Q         |          |          |       V  |
19+45       0.1198      0.02  Q         |          |          |       V  |
19+50       0.1199      0.02  Q         |          |          |       V  |
19+55       0.1200      0.01  Q         |          |          |       V  |
20+ 0       0.1201      0.01  Q         |          |          |       V  |
20+ 5       0.1202      0.01  Q         |          |          |       V  |
20+10       0.1203      0.02  Q         |          |          |       V  |
20+15       0.1204      0.02  Q         |          |          |       V  |
20+20       0.1206      0.02  Q         |          |          |       V  |
20+25       0.1207      0.02  Q         |          |          |       V  |
20+30       0.1208      0.02  Q         |          |          |       V  |
20+35       0.1209      0.02  Q         |          |          |       V  |
20+40       0.1211      0.02  Q         |          |          |       V  |
20+45       0.1212      0.02  Q         |          |          |       V  |
20+50       0.1213      0.02  Q         |          |          |       V  |
20+55       0.1214      0.01  Q         |          |          |       V  |
21+ 0       0.1215      0.01  Q         |          |          |       V  |
21+ 5       0.1216      0.01  Q         |          |          |       V  |
21+10       0.1217      0.02  Q         |          |          |       V  |
21+15       0.1218      0.02  Q         |          |          |       V  |
21+20       0.1219      0.02  Q         |          |          |        V |
21+25       0.1220      0.01  Q         |          |          |        V |
21+30       0.1221      0.01  Q         |          |          |        V |
21+35       0.1222      0.01  Q         |          |          |        V |
21+40       0.1223      0.02  Q         |          |          |        V |
21+45       0.1224      0.02  Q         |          |          |        V |
21+50       0.1225      0.02  Q         |          |          |        V |
21+55       0.1226      0.01  Q         |          |          |        V |
22+ 0       0.1227      0.01  Q         |          |          |        V |
22+ 5       0.1228      0.01  Q         |          |          |        V |
22+10       0.1229      0.02  Q         |          |          |        V |
22+15       0.1231      0.02  Q         |          |          |        V |
22+20       0.1232      0.02  Q         |          |          |        V |
22+25       0.1233      0.01  Q         |          |          |        V |
22+30       0.1234      0.01  Q         |          |          |        V |
22+35       0.1234      0.01  Q         |          |          |        V |
22+40       0.1235      0.01  Q         |          |          |        V |
22+45       0.1236      0.01  Q         |          |          |        V |
22+50       0.1237      0.01  Q         |          |          |        V |
22+55       0.1238      0.01  Q         |          |          |        V |
23+ 0       0.1239      0.01  Q         |          |          |        V |
23+ 5       0.1239      0.01  Q         |          |          |        V |
23+10       0.1240      0.01  Q         |          |          |        V |
23+15       0.1241      0.01  Q         |          |          |        V |
23+20       0.1242      0.01  Q         |          |          |        V |
23+25       0.1243      0.01  Q         |          |          |        V |
23+30       0.1244      0.01  Q         |          |          |        V |
23+35       0.1244      0.01  Q         |          |          |        V |
23+40       0.1245      0.01  Q         |          |          |        V |
23+45       0.1246      0.01  Q         |          |          |        V |
```

```
   23+50       0.1247      0.01  Q         |         |         |         V|
   23+55       0.1248      0.01  Q         |         |         |         V|
   24+ 0       0.1249      0.01  Q         |         |         |         V|
   24+ 5       0.1249      0.01  Q         |         |         |         V|
   24+10       0.1249      0.00  Q         |         |         |         V|
   24+15       0.1249      0.00  Q         |         |         |         V|
   24+20       0.1249      0.00  Q         |         |         |         V|
   24+25       0.1249      0.00  Q         |         |         |         V|
-------------------------------------------------------------------------
```

```
       U n i t   H y d r o g r a p h   A n a l y s i s

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------------------------------------------------------------------------------

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       8.33(Ac.)  =      0.013 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       8.33(Ac.)  =      0.013 Sq. Mi.
Length along longest watercourse =     911.00(Ft.)
Length along longest watercourse measured to centroid =     456.00(Ft.)
Length along longest watercourse =      0.173 Mi.
Length along longest watercourse measured to centroid =      0.086 Mi.
Difference in elevation =      16.00(Ft.)
Slope along watercourse =     92.7333 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time =    0.062 Hr.
Lag time =     3.69 Min.
25% of lag time =     0.92 Min.
40% of lag time =     1.48 Min.
Unit time =     5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            0.50                 4.17

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            1.20                10.00

STORM EVENT (YEAR) =    5.00
Area Averaged 2-Year Rainfall =    0.500(In)
Area Averaged 100-Year Rainfall =    1.200(In)

Point rain (area averaged) =    0.664(In)
Areal adjustment factor =   99.99 %
Adjusted average point rain =    0.664(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     8.330           69.00          0.000
 Total Area Entered =      8.33(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-1     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
69.0  49.8      0.574     0.000        0.574       1.000      0.574
                                                  Sum (F) =   0.574
Area averaged mean soil loss (F) (In/Hr) =  0.574
Minimum soil loss rate ((In/Hr)) =  0.287
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.900
------------------------------------------------------------------------
Slope of intensity-duration curve for a 1 hour storm =0.5000
------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
------------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
```

```
        (hrs)                          Graph %            (CFS)
      ------------------------------------------------------------------------
          1   0.083        135.344         29.460              2.473
          2   0.167        270.688         47.995              4.029
          3   0.250        406.032         12.120              1.017
          4   0.333        541.376          5.371              0.451
          5   0.417        676.720          2.918              0.245
          6   0.500        812.064          2.136              0.179
                                  Sum = 100.000   Sum=          8.395
------------------------------------------------------------------------

 The following loss rate calculations reflect use of the minimum calculated loss
 rate subtracted from the Storm Rain to produce the maximum Effective Rain value

  Unit Time   Pattern   Storm Rain     Loss rate(In./Hr)     Effective
       (Hr.)  Percent   (In/Hr)         Max    |   Low        (In/Hr)
   1   0.08     4.20      0.335       (  0.574)       0.301        0.033
   2   0.17     4.30      0.343       (  0.574)       0.308        0.034
   3   0.25     5.00      0.398       (  0.574)       0.359        0.040
   4   0.33     5.00      0.398       (  0.574)       0.359        0.040
   5   0.42     5.80      0.462       (  0.574)       0.416        0.046
   6   0.50     6.50      0.518       (  0.574)       0.466        0.052
   7   0.58     7.40      0.590       (  0.574)       0.531        0.059
   8   0.67     8.60      0.685          0.574    (  0.617)        0.111
   9   0.75    12.30      0.980          0.574    (  0.882)        0.406
  10   0.83    29.10      2.318          0.574    (  2.087)        1.744
  11   0.92     6.80      0.542       (  0.574)       0.488        0.054
  12   1.00     5.00      0.398       (  0.574)       0.359        0.040
             (Loss Rate Not Used)
     Sum =     100.0                                  Sum =     2.7
       Flood volume = Effective rainfall      0.22(In)
        times area       8.3(Ac.)/[(In)/(Ft.)] =       0.2(Ac.Ft)
       Total soil loss =      0.44(In)
       Total soil loss =     0.307(Ac.Ft)
       Total rainfall =      0.66(In)
       Flood volume =        6702.5 Cubic Feet
       Total soil loss =       13372.7 Cubic Feet
       ---------------------------------------------------------------------
        Peak flow rate of this hydrograph =      7.653(CFS)
       ---------------------------------------------------------------------
       +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                           1 - 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   5   Minute intervals ((CFS))

       ---------------------------------------------------------------------
  Time(h+m) Volume Ac.Ft   Q(CFS)  0        2.5       5.0       7.5      10.0
  ------------------------------------------------------------------------
    0+ 5       0.0006      0.08  Q         |         |         |         |
    0+10       0.0021      0.22  Q         |         |         |         |
    0+15       0.0039      0.27  |Q        |         |         |         |
    0+20       0.0061      0.31  |Q        |         |         |         |
    0+25       0.0084      0.34  |QV       |         |         |         |
    0+30       0.0111      0.39  |QV       |         |         |         |
    0+35       0.0141      0.44  |Q V      |         |         |         |
    0+40       0.0182      0.60  | Q V     |         |         |         |
    0+45       0.0289      1.55  |     QV  |         |         |         |
    0+50       0.0710      6.11  |         |       V |    Q    |         |
    0+55       0.1238      7.65  |         |         |       Q V         |
    1+ 0       0.1397      2.31  |        Q|         |         |     V   |
    1+ 5       0.1474      1.12  |   Q     |         |         |       V |
    1+10       0.1513      0.57  | Q       |         |         |        V|
    1+15       0.1537      0.34  |Q        |         |         |        V|
    1+20       0.1538      0.02  Q         |         |         |        V|
    1+25       0.1539      0.01  Q         |         |         |         V
------------------------------------------------------------------------
```

```
       U n i t   H y d r o g r a p h   A n a l y s i s

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              Study date  02/28/22 File: ex535.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       8.33(Ac.)  =      0.013 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       8.33(Ac.)  =      0.013 Sq. Mi.
Length along longest watercourse =     911.00(Ft.)
Length along longest watercourse measured to centroid =     456.00(Ft.)
Length along longest watercourse =      0.173 Mi.
Length along longest watercourse measured to centroid =      0.086 Mi.
Difference in elevation =      16.00(Ft.)
Slope along watercourse =     92.7333 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time =    0.062 Hr.
Lag time =     3.69 Min.
25% of lag time =     0.92 Min.
40% of lag time =     1.48 Min.
Unit time =     5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33           0.80                 6.66

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33           1.90                15.83

STORM EVENT (YEAR) =    5.00
Area Averaged 2-Year Rainfall =    0.800(In)
Area Averaged 100-Year Rainfall =    1.900(In)

Point rain (area averaged) =    1.058(In)
Areal adjustment factor =  100.00 %
Adjusted average point rain =    1.058(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     8.330           69.00          0.000
 Total Area Entered =      8.33(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-1     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
69.0  49.8      0.574     0.000        0.574       1.000      0.574
                                                 Sum (F) =   0.574
Area averaged mean soil loss (F) (In/Hr) =  0.574
Minimum soil loss rate ((In/Hr)) =  0.287
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.900
------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
-------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
    (hrs)                          Graph %           (CFS)
------------------------------------------------------------------------
```

1	0.083	135.344	29.460	2.473
2	0.167	270.688	47.995	4.029
3	0.250	406.032	12.120	1.017
4	0.333	541.376	5.371	0.451
5	0.417	676.720	2.918	0.245
6	0.500	812.064	2.136	0.179
			Sum = 100.000 Sum=	8.395

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	1.30	0.165	(0.574)	0.148	0.016
2	0.17	1.30	0.165	(0.574)	0.148	0.016
3	0.25	1.10	0.140	(0.574)	0.126	0.014
4	0.33	1.50	0.190	(0.574)	0.171	0.019
5	0.42	1.50	0.190	(0.574)	0.171	0.019
6	0.50	1.80	0.228	(0.574)	0.206	0.023
7	0.58	1.50	0.190	(0.574)	0.171	0.019
8	0.67	1.80	0.228	(0.574)	0.206	0.023
9	0.75	1.80	0.228	(0.574)	0.206	0.023
10	0.83	1.50	0.190	(0.574)	0.171	0.019
11	0.92	1.60	0.203	(0.574)	0.183	0.020
12	1.00	1.80	0.228	(0.574)	0.206	0.023
13	1.08	2.20	0.279	(0.574)	0.251	0.028
14	1.17	2.20	0.279	(0.574)	0.251	0.028
15	1.25	2.20	0.279	(0.574)	0.251	0.028
16	1.33	2.00	0.254	(0.574)	0.228	0.025
17	1.42	2.60	0.330	(0.574)	0.297	0.033
18	1.50	2.70	0.343	(0.574)	0.308	0.034
19	1.58	2.40	0.305	(0.574)	0.274	0.030
20	1.67	2.70	0.343	(0.574)	0.308	0.034
21	1.75	3.30	0.419	(0.574)	0.377	0.042
22	1.83	3.10	0.393	(0.574)	0.354	0.039
23	1.92	2.90	0.368	(0.574)	0.331	0.037
24	2.00	3.00	0.381	(0.574)	0.343	0.038
25	2.08	3.10	0.393	(0.574)	0.354	0.039
26	2.17	4.20	0.533	(0.574)	0.480	0.053
27	2.25	5.00	0.635	(0.574)	0.571	0.063
28	2.33	3.50	0.444	(0.574)	0.400	0.044
29	2.42	6.80	0.863	0.574	(0.777)	0.289
30	2.50	7.30	0.926	0.574	(0.834)	0.353
31	2.58	8.20	1.041	0.574	(0.937)	0.467
32	2.67	5.90	0.749	0.574	(0.674)	0.175
33	2.75	2.00	0.254	(0.574)	0.228	0.025
34	2.83	1.80	0.228	(0.574)	0.206	0.023
35	2.92	1.80	0.228	(0.574)	0.206	0.023
36	3.00	0.60	0.076	(0.574)	0.069	0.008
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	2.2

Flood volume = Effective rainfall 0.18(In)
times area 8.3(Ac.)/[(In)/(Ft.)] = 0.1(Ac.Ft)
Total soil loss = 0.87(In)
Total soil loss = 0.607(Ac.Ft)
Total rainfall = 1.06(In)
Flood volume = 5529.4 Cubic Feet
Total soil loss = 26450.5 Cubic Feet

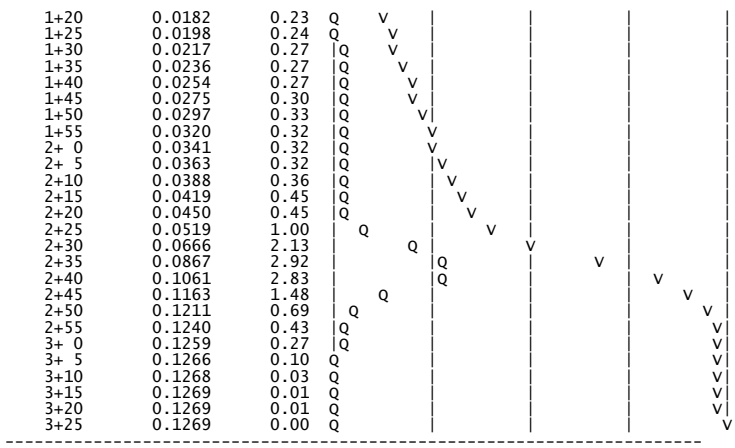
Peak flow rate of this hydrograph = 2.915(CFS)

++

3 - 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 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0003	0.04	Q	|	|	|	|
0+10	0.0010	0.11	Q	|	|	|	|
0+15	0.0018	0.12	Q	|	|	|	|
0+20	0.0027	0.13	Q	|	|	|	|
0+25	0.0037	0.15	QV	|	|	|	|
0+30	0.0049	0.17	QV	|	|	|	|
0+35	0.0061	0.17	QV	|	|	|	|
0+40	0.0073	0.17	Q V	|	|	|	|
0+45	0.0085	0.19	Q V	|	|	|	|
0+50	0.0098	0.18	Q V	|	|	|	|
0+55	0.0110	0.17	Q V	|	|	|	|
1+ 0	0.0122	0.18	Q V	|	|	|	|
1+ 5	0.0136	0.20	Q V	|	|	|	|
1+10	0.0151	0.22	Q V	|	|	|	|
1+15	0.0167	0.23	Q V	|	|	|	|


1+20 0.0182 0.23
1+25 0.0198 0.24
1+30 0.0217 0.27
1+35 0.0236 0.27
1+40 0.0254 0.27
1+45 0.0275 0.30
1+50 0.0297 0.33
1+55 0.0320 0.32
2+ 0 0.0341 0.32
2+ 5 0.0363 0.32
2+10 0.0388 0.36
2+15 0.0419 0.45
2+20 0.0450 0.45
2+25 0.0519 1.00
2+30 0.0666 2.13
2+35 0.0867 2.92
2+40 0.1061 2.83
2+45 0.1163 1.48
2+50 0.1211 0.69
2+55 0.1240 0.43
3+ 0 0.1259 0.27
3+ 5 0.1266 0.10
3+10 0.1268 0.03
3+15 0.1269 0.01
3+20 0.1269 0.01
3+25 0.1269 0.00

```
       U n i t   H y d r o g r a p h   A n a l y s i s

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              Study date  02/28/22 File: ex565.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       8.33(Ac.)  =      0.013 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       8.33(Ac.)  =      0.013 Sq. Mi.
Length along longest watercourse =     911.00(Ft.)
Length along longest watercourse measured to centroid =     456.00(Ft.)
Length along longest watercourse =      0.173 Mi.
Length along longest watercourse measured to centroid =      0.086 Mi.
Difference in elevation =      16.00(Ft.)
Slope along watercourse =     92.7333 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time =    0.062 Hr.
Lag time =     3.69 Min.
25% of lag time =     0.92 Min.
40% of lag time =     1.48 Min.
Unit time =     5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            1.20                 10.00

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            2.50                 20.82

STORM EVENT (YEAR) =    5.00
Area Averaged 2-Year Rainfall =    1.200(In)
Area Averaged 100-Year Rainfall =    2.500(In)

Point rain (area averaged) =    1.504(In)
Areal adjustment factor =  100.00 %
Adjusted average point rain =    1.504(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     8.330           69.00          0.000
 Total Area Entered =      8.33(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-1     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
69.0  49.8      0.574     0.000        0.574       1.000      0.574
                                                 Sum (F) =   0.574
Area averaged mean soil loss (F) (In/Hr) =  0.574
Minimum soil loss rate ((In/Hr)) =  0.287
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.900
------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
-------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
    (hrs)                          Graph %           (CFS)
------------------------------------------------------------------------
```

1	0.083	135.344	29.460	2.473
2	0.167	270.688	47.995	4.029
3	0.250	406.032	12.120	1.017
4	0.333	541.376	5.371	0.451
5	0.417	676.720	2.918	0.245
6	0.500	812.064	2.136	0.179
			Sum = 100.000	Sum= 8.395

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.090	(0.574)	0.081	0.009
2	0.17	0.60	0.108	(0.574)	0.097	0.011
3	0.25	0.60	0.108	(0.574)	0.097	0.011
4	0.33	0.60	0.108	(0.574)	0.097	0.011
5	0.42	0.60	0.108	(0.574)	0.097	0.011
6	0.50	0.70	0.126	(0.574)	0.114	0.013
7	0.58	0.70	0.126	(0.574)	0.114	0.013
8	0.67	0.70	0.126	(0.574)	0.114	0.013
9	0.75	0.70	0.126	(0.574)	0.114	0.013
10	0.83	0.70	0.126	(0.574)	0.114	0.013
11	0.92	0.70	0.126	(0.574)	0.114	0.013
12	1.00	0.80	0.144	(0.574)	0.130	0.014
13	1.08	0.80	0.144	(0.574)	0.130	0.014
14	1.17	0.80	0.144	(0.574)	0.130	0.014
15	1.25	0.80	0.144	(0.574)	0.130	0.014
16	1.33	0.80	0.144	(0.574)	0.130	0.014
17	1.42	0.80	0.144	(0.574)	0.130	0.014
18	1.50	0.80	0.144	(0.574)	0.130	0.014
19	1.58	0.80	0.144	(0.574)	0.130	0.014
20	1.67	0.80	0.144	(0.574)	0.130	0.014
21	1.75	0.80	0.144	(0.574)	0.130	0.014
22	1.83	0.80	0.144	(0.574)	0.130	0.014
23	1.92	0.80	0.144	(0.574)	0.130	0.014
24	2.00	0.90	0.162	(0.574)	0.146	0.016
25	2.08	0.80	0.144	(0.574)	0.130	0.014
26	2.17	0.90	0.162	(0.574)	0.146	0.016
27	2.25	0.90	0.162	(0.574)	0.146	0.016
28	2.33	0.90	0.162	(0.574)	0.146	0.016
29	2.42	0.90	0.162	(0.574)	0.146	0.016
30	2.50	0.90	0.162	(0.574)	0.146	0.016
31	2.58	0.90	0.162	(0.574)	0.146	0.016
32	2.67	0.90	0.162	(0.574)	0.146	0.016
33	2.75	1.00	0.181	(0.574)	0.162	0.018
34	2.83	1.00	0.181	(0.574)	0.162	0.018
35	2.92	1.00	0.181	(0.574)	0.162	0.018
36	3.00	1.00	0.181	(0.574)	0.162	0.018
37	3.08	1.00	0.181	(0.574)	0.162	0.018
38	3.17	1.10	0.199	(0.574)	0.179	0.020
39	3.25	1.10	0.199	(0.574)	0.179	0.020
40	3.33	1.10	0.199	(0.574)	0.179	0.020
41	3.42	1.20	0.217	(0.574)	0.195	0.022
42	3.50	1.30	0.235	(0.574)	0.211	0.023
43	3.58	1.40	0.253	(0.574)	0.227	0.025
44	3.67	1.40	0.253	(0.574)	0.227	0.025
45	3.75	1.50	0.271	(0.574)	0.244	0.027
46	3.83	1.50	0.271	(0.574)	0.244	0.027
47	3.92	1.60	0.289	(0.574)	0.260	0.029
48	4.00	1.60	0.289	(0.574)	0.260	0.029
49	4.08	1.70	0.307	(0.574)	0.276	0.031
50	4.17	1.80	0.325	(0.574)	0.292	0.032
51	4.25	1.90	0.343	(0.574)	0.309	0.034
52	4.33	2.00	0.361	(0.574)	0.325	0.036
53	4.42	2.10	0.379	(0.574)	0.341	0.038
54	4.50	2.10	0.379	(0.574)	0.341	0.038
55	4.58	2.20	0.397	(0.574)	0.357	0.040
56	4.67	2.30	0.415	(0.574)	0.374	0.042
57	4.75	2.40	0.433	(0.574)	0.390	0.043
58	4.83	2.40	0.433	(0.574)	0.390	0.043
59	4.92	2.50	0.451	(0.574)	0.406	0.045
60	5.00	2.60	0.469	(0.574)	0.422	0.047
61	5.08	3.10	0.560	(0.574)	0.504	0.056
62	5.17	3.60	0.650	0.574	(0.585)	0.076
63	5.25	3.90	0.704	0.574	(0.634)	0.130
64	5.33	4.20	0.758	0.574	(0.682)	0.184
65	5.42	4.70	0.849	0.574	(0.764)	0.275
66	5.50	5.60	1.011	0.574	(0.910)	0.437
67	5.58	1.90	0.343	(0.574)	0.309	0.034
68	5.67	0.90	0.162	(0.574)	0.146	0.016
69	5.75	0.60	0.108	(0.574)	0.097	0.011
70	5.83	0.50	0.090	(0.574)	0.081	0.009
71	5.92	0.30	0.054	(0.574)	0.049	0.005
72	6.00	0.20	0.036	(0.574)	0.032	0.004

```
            (Loss Rate Not Used)
 Sum =     100.0                                  Sum =     2.5
    Flood volume = Effective rainfall      0.21(In)
     times area       8.3(Ac.)/[(In)/(Ft.)] =       0.1(Ac.Ft)
    Total soil loss =      1.30(In)
    Total soil loss =     0.899(Ac.Ft)
    Total rainfall =      1.50(In)
    Flood volume =        6325.0 Cubic Feet
    Total soil loss =       39166.3 Cubic Feet
    ---------------------------------------------------------------------
     Peak flow rate of this hydrograph =      2.463(CFS)
    ---------------------------------------------------------------------
    +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                          6 - 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   5   Minute intervals ((CFS))

    ---------------------------------------------------------------------
Time(h+m) Volume Ac.Ft   Q(CFS)  0        2.5       5.0       7.5      10.0
-------------------------------------------------------------------------
  0+ 5       0.0002      0.02  Q          |         |         |         |
  0+10       0.0006      0.06  Q          |         |         |         |
  0+15       0.0011      0.08  Q          |         |         |         |
  0+20       0.0017      0.09  Q          |         |         |         |
  0+25       0.0023      0.09  Q          |         |         |         |
  0+30       0.0030      0.10  Q          |         |         |         |
  0+35       0.0037      0.10  QV         |         |         |         |
  0+40       0.0044      0.10  QV         |         |         |         |
  0+45       0.0051      0.11  QV         |         |         |         |
  0+50       0.0059      0.11  QV         |         |         |         |
  0+55       0.0066      0.11  QV         |         |         |         |
  1+ 0       0.0074      0.11  Q V        |         |         |         |
  1+ 5       0.0082      0.12  Q V        |         |         |         |
  1+10       0.0090      0.12  Q V        |         |         |         |
  1+15       0.0098      0.12  Q V        |         |         |         |
  1+20       0.0107      0.12  Q V        |         |         |         |
  1+25       0.0115      0.12  Q  V       |         |         |         |
  1+30       0.0123      0.12  Q  V       |         |         |         |
  1+35       0.0132      0.12  Q  V       |         |         |         |
  1+40       0.0140      0.12  Q  V       |         |         |         |
  1+45       0.0148      0.12  Q   V      |         |         |         |
  1+50       0.0157      0.12  Q   V      |         |         |         |
  1+55       0.0165      0.12  Q   V      |         |         |         |
  2+ 0       0.0174      0.13  Q   V      |         |         |         |
  2+ 5       0.0183      0.13  Q    V     |         |         |         |
  2+10       0.0191      0.13  Q    V     |         |         |         |
  2+15       0.0201      0.13  Q    V     |         |         |         |
  2+20       0.0210      0.14  Q    V     |         |         |         |
  2+25       0.0219      0.14  Q     V    |         |         |         |
  2+30       0.0229      0.14  Q     V    |         |         |         |
  2+35       0.0238      0.14  Q     V    |         |         |         |
  2+40       0.0248      0.14  Q     V    |         |         |         |
  2+45       0.0257      0.14  Q      V   |         |         |         |
  2+50       0.0267      0.15  Q      V   |         |         |         |
  2+55       0.0278      0.15  Q      V   |         |         |         |
  3+ 0       0.0288      0.15  Q      V   |         |         |         |
  3+ 5       0.0299      0.15  Q       V  |         |         |         |
  3+10       0.0309      0.16  Q       V  |         |         |         |
  3+15       0.0321      0.16  Q       V  |         |         |         |
  3+20       0.0332      0.17  Q        V |         |         |         |
  3+25       0.0344      0.17  Q        V |         |         |         |
  3+30       0.0356      0.18  Q        V |         |         |         |
  3+35       0.0370      0.20  Q         V|         |         |         |
  3+40       0.0384      0.21  Q         V|         |         |         |
  3+45       0.0399      0.21  Q         V|         |         |         |
  3+50       0.0414      0.22  Q          |V        |         |         |
  3+55       0.0430      0.23  Q          |V        |         |         |
  4+ 0       0.0446      0.24  Q          | V       |         |         |
  4+ 5       0.0463      0.25  Q          | V       |         |         |
  4+10       0.0481      0.26  |Q         |  V      |         |         |
  4+15       0.0500      0.27  |Q         |  V      |         |         |
  4+20       0.0520      0.29  |Q         |   V     |         |         |
  4+25       0.0540      0.30  |Q         |   V     |         |         |
  4+30       0.0562      0.31  |Q         |    V    |         |         |
  4+35       0.0584      0.32  |Q         |     V   |         |         |
  4+40       0.0607      0.33  |Q         |     V   |         |         |
  4+45       0.0631      0.35  |Q         |      V  |         |         |
  4+50       0.0656      0.36  |Q         |       V |         |         |
  4+55       0.0681      0.37  |Q         |       V |         |         |
  5+ 0       0.0707      0.38  |Q         |        V|         |         |
  5+ 5       0.0735      0.41  |Q         |         V         |         |
  5+10       0.0770      0.50  | Q        |          V        |         |
  5+15       0.0820      0.73  | Q        |          | V      |         |
  5+20       0.0895      1.10  |   Q      |          |   V    |         |
  5+25       0.1006      1.61  |     Q    |          |     V  |         |
  5+30       0.1176      2.46  |       Q  |          |        | V       |
```

```
    5+35       0.1331      2.25  |        Q|         |         |     V   |
    5+40       0.1388      0.82  |   Q     |         |         |       V |
    5+45       0.1417      0.42  |Q        |         |         |         V|
    5+50       0.1434      0.25  |Q        |         |         |         V|
    5+55       0.1445      0.15  Q         |         |         |         V|
    6+ 0       0.1449      0.05  Q         |         |         |         V|
    6+ 5       0.1451      0.03  Q         |         |         |         V|
    6+10       0.1452      0.01  Q         |         |         |         V|
    6+15       0.1452      0.00  Q         |         |         |         V|
    6+20       0.1452      0.00  Q         |         |         |         V|
    6+25       0.1452      0.00  Q         |         |         |          V
--------------------------------------------------------------------------
```

```
       U n i t   H y d r o g r a p h   A n a l y s i s

       Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2008, Version 8.1
              Study date  02/28/22 File: ex5245.out

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------------------------------------------------------------------------------

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       8.33(Ac.)  =      0.013 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       8.33(Ac.)  =      0.013 Sq. Mi.
Length along longest watercourse =     911.00(Ft.)
Length along longest watercourse measured to centroid =     456.00(Ft.)
Length along longest watercourse =      0.173 Mi.
Length along longest watercourse measured to centroid =      0.086 Mi.
Difference in elevation =      16.00(Ft.)
Slope along watercourse =     92.7333 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time =    0.062 Hr.
Lag time =     3.69 Min.
25% of lag time =     0.92 Min.
40% of lag time =     1.48 Min.
Unit time =     5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            1.80                 14.99

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            4.50                 37.48

STORM EVENT (YEAR) =    5.00
Area Averaged 2-Year Rainfall =    1.800(In)
Area Averaged 100-Year Rainfall =    4.500(In)

Point rain (area averaged) =    2.432(In)
Areal adjustment factor =  100.00 %
Adjusted average point rain =    2.432(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     8.330           69.00          0.000
 Total Area Entered =      8.33(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-1     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
69.0  49.8      0.574     0.000        0.574       1.000      0.574
                                                 Sum (F) =   0.574
Area averaged mean soil loss (F) (In/Hr) =  0.574
Minimum soil loss rate ((In/Hr)) =  0.287
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.900
------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
    (hrs)                          Graph %           (CFS)
------------------------------------------------------------------------
```

1	0.083	135.344	29.460	2.473
2	0.167	270.688	47.995	4.029
3	0.250	406.032	12.120	1.017
4	0.333	541.376	5.371	0.451
5	0.417	676.720	2.918	0.245
6	0.500	812.064	2.136	0.179
			Sum = 100.000 Sum=	8.395

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.019	(1.017)	0.018	0.002
2	0.17	0.07	0.019	(1.014)	0.018	0.002
3	0.25	0.07	0.019	(1.010)	0.018	0.002
4	0.33	0.10	0.029	(1.006)	0.026	0.003
5	0.42	0.10	0.029	(1.002)	0.026	0.003
6	0.50	0.10	0.029	(0.998)	0.026	0.003
7	0.58	0.10	0.029	(0.994)	0.026	0.003
8	0.67	0.10	0.029	(0.990)	0.026	0.003
9	0.75	0.10	0.029	(0.986)	0.026	0.003
10	0.83	0.13	0.039	(0.982)	0.035	0.004
11	0.92	0.13	0.039	(0.978)	0.035	0.004
12	1.00	0.13	0.039	(0.975)	0.035	0.004
13	1.08	0.10	0.029	(0.971)	0.026	0.003
14	1.17	0.10	0.029	(0.967)	0.026	0.003
15	1.25	0.10	0.029	(0.963)	0.026	0.003
16	1.33	0.10	0.029	(0.959)	0.026	0.003
17	1.42	0.10	0.029	(0.955)	0.026	0.003
18	1.50	0.10	0.029	(0.952)	0.026	0.003
19	1.58	0.10	0.029	(0.948)	0.026	0.003
20	1.67	0.10	0.029	(0.944)	0.026	0.003
21	1.75	0.10	0.029	(0.940)	0.026	0.003
22	1.83	0.13	0.039	(0.936)	0.035	0.004
23	1.92	0.13	0.039	(0.933)	0.035	0.004
24	2.00	0.13	0.039	(0.929)	0.035	0.004
25	2.08	0.13	0.039	(0.925)	0.035	0.004
26	2.17	0.13	0.039	(0.921)	0.035	0.004
27	2.25	0.13	0.039	(0.918)	0.035	0.004
28	2.33	0.13	0.039	(0.914)	0.035	0.004
29	2.42	0.13	0.039	(0.910)	0.035	0.004
30	2.50	0.13	0.039	(0.906)	0.035	0.004
31	2.58	0.17	0.049	(0.903)	0.044	0.005
32	2.67	0.17	0.049	(0.899)	0.044	0.005
33	2.75	0.17	0.049	(0.895)	0.044	0.005
34	2.83	0.17	0.049	(0.892)	0.044	0.005
35	2.92	0.17	0.049	(0.888)	0.044	0.005
36	3.00	0.17	0.049	(0.884)	0.044	0.005
37	3.08	0.17	0.049	(0.881)	0.044	0.005
38	3.17	0.17	0.049	(0.877)	0.044	0.005
39	3.25	0.17	0.049	(0.873)	0.044	0.005
40	3.33	0.17	0.049	(0.870)	0.044	0.005
41	3.42	0.17	0.049	(0.866)	0.044	0.005
42	3.50	0.17	0.049	(0.862)	0.044	0.005
43	3.58	0.17	0.049	(0.859)	0.044	0.005
44	3.67	0.17	0.049	(0.855)	0.044	0.005
45	3.75	0.17	0.049	(0.852)	0.044	0.005
46	3.83	0.20	0.058	(0.848)	0.053	0.006
47	3.92	0.20	0.058	(0.844)	0.053	0.006
48	4.00	0.20	0.058	(0.841)	0.053	0.006
49	4.08	0.20	0.058	(0.837)	0.053	0.006
50	4.17	0.20	0.058	(0.834)	0.053	0.006
51	4.25	0.20	0.058	(0.830)	0.053	0.006
52	4.33	0.23	0.068	(0.827)	0.061	0.007
53	4.42	0.23	0.068	(0.823)	0.061	0.007
54	4.50	0.23	0.068	(0.820)	0.061	0.007
55	4.58	0.23	0.068	(0.816)	0.061	0.007
56	4.67	0.23	0.068	(0.813)	0.061	0.007
57	4.75	0.23	0.068	(0.809)	0.061	0.007
58	4.83	0.27	0.078	(0.806)	0.070	0.008
59	4.92	0.27	0.078	(0.802)	0.070	0.008
60	5.00	0.27	0.078	(0.799)	0.070	0.008
61	5.08	0.20	0.058	(0.795)	0.053	0.006
62	5.17	0.20	0.058	(0.792)	0.053	0.006
63	5.25	0.20	0.058	(0.788)	0.053	0.006
64	5.33	0.23	0.068	(0.785)	0.061	0.007
65	5.42	0.23	0.068	(0.781)	0.061	0.007
66	5.50	0.23	0.068	(0.778)	0.061	0.007
67	5.58	0.27	0.078	(0.775)	0.070	0.008
68	5.67	0.27	0.078	(0.771)	0.070	0.008
69	5.75	0.27	0.078	(0.768)	0.070	0.008
70	5.83	0.27	0.078	(0.764)	0.070	0.008
71	5.92	0.27	0.078	(0.761)	0.070	0.008
72	6.00	0.27	0.078	(0.758)	0.070	0.008

73	6.08	0.30	0.088	(0.754)	0.079	0.009
74	6.17	0.30	0.088	(0.751)	0.079	0.009
75	6.25	0.30	0.088	(0.748)	0.079	0.009
76	6.33	0.30	0.088	(0.744)	0.079	0.009
77	6.42	0.30	0.088	(0.741)	0.079	0.009
78	6.50	0.30	0.088	(0.738)	0.079	0.009
79	6.58	0.33	0.097	(0.734)	0.088	0.010
80	6.67	0.33	0.097	(0.731)	0.088	0.010
81	6.75	0.33	0.097	(0.728)	0.088	0.010
82	6.83	0.33	0.097	(0.724)	0.088	0.010
83	6.92	0.33	0.097	(0.721)	0.088	0.010
84	7.00	0.33	0.097	(0.718)	0.088	0.010
85	7.08	0.33	0.097	(0.715)	0.088	0.010
86	7.17	0.33	0.097	(0.711)	0.088	0.010
87	7.25	0.33	0.097	(0.708)	0.088	0.010
88	7.33	0.37	0.107	(0.705)	0.096	0.011
89	7.42	0.37	0.107	(0.702)	0.096	0.011
90	7.50	0.37	0.107	(0.698)	0.096	0.011
91	7.58	0.40	0.117	(0.695)	0.105	0.012
92	7.67	0.40	0.117	(0.692)	0.105	0.012
93	7.75	0.40	0.117	(0.689)	0.105	0.012
94	7.83	0.43	0.126	(0.686)	0.114	0.013
95	7.92	0.43	0.126	(0.682)	0.114	0.013
96	8.00	0.43	0.126	(0.679)	0.114	0.013
97	8.08	0.50	0.146	(0.676)	0.131	0.015
98	8.17	0.50	0.146	(0.673)	0.131	0.015
99	8.25	0.50	0.146	(0.670)	0.131	0.015
100	8.33	0.50	0.146	(0.667)	0.131	0.015
101	8.42	0.50	0.146	(0.664)	0.131	0.015
102	8.50	0.50	0.146	(0.660)	0.131	0.015
103	8.58	0.53	0.156	(0.657)	0.140	0.016
104	8.67	0.53	0.156	(0.654)	0.140	0.016
105	8.75	0.53	0.156	(0.651)	0.140	0.016
106	8.83	0.57	0.165	(0.648)	0.149	0.017
107	8.92	0.57	0.165	(0.645)	0.149	0.017
108	9.00	0.57	0.165	(0.642)	0.149	0.017
109	9.08	0.63	0.185	(0.639)	0.166	0.018
110	9.17	0.63	0.185	(0.636)	0.166	0.018
111	9.25	0.63	0.185	(0.633)	0.166	0.018
112	9.33	0.67	0.195	(0.630)	0.175	0.019
113	9.42	0.67	0.195	(0.627)	0.175	0.019
114	9.50	0.67	0.195	(0.624)	0.175	0.019
115	9.58	0.70	0.204	(0.621)	0.184	0.020
116	9.67	0.70	0.204	(0.618)	0.184	0.020
117	9.75	0.70	0.204	(0.615)	0.184	0.020
118	9.83	0.73	0.214	(0.612)	0.193	0.021
119	9.92	0.73	0.214	(0.609)	0.193	0.021
120	10.00	0.73	0.214	(0.606)	0.193	0.021
121	10.08	0.50	0.146	(0.603)	0.131	0.015
122	10.17	0.50	0.146	(0.600)	0.131	0.015
123	10.25	0.50	0.146	(0.597)	0.131	0.015
124	10.33	0.50	0.146	(0.594)	0.131	0.015
125	10.42	0.50	0.146	(0.592)	0.131	0.015
126	10.50	0.50	0.146	(0.589)	0.131	0.015
127	10.58	0.67	0.195	(0.586)	0.175	0.019
128	10.67	0.67	0.195	(0.583)	0.175	0.019
129	10.75	0.67	0.195	(0.580)	0.175	0.019
130	10.83	0.67	0.195	(0.577)	0.175	0.019
131	10.92	0.67	0.195	(0.574)	0.175	0.019
132	11.00	0.67	0.195	(0.572)	0.175	0.019
133	11.08	0.63	0.185	(0.569)	0.166	0.018
134	11.17	0.63	0.185	(0.566)	0.166	0.018
135	11.25	0.63	0.185	(0.563)	0.166	0.018
136	11.33	0.63	0.185	(0.560)	0.166	0.018
137	11.42	0.63	0.185	(0.558)	0.166	0.018
138	11.50	0.63	0.185	(0.555)	0.166	0.018
139	11.58	0.57	0.165	(0.552)	0.149	0.017
140	11.67	0.57	0.165	(0.549)	0.149	0.017
141	11.75	0.57	0.165	(0.547)	0.149	0.017
142	11.83	0.60	0.175	(0.544)	0.158	0.018
143	11.92	0.60	0.175	(0.541)	0.158	0.018
144	12.00	0.60	0.175	(0.538)	0.158	0.018
145	12.08	0.83	0.243	(0.536)	0.219	0.024
146	12.17	0.83	0.243	(0.533)	0.219	0.024
147	12.25	0.83	0.243	(0.530)	0.219	0.024
148	12.33	0.87	0.253	(0.528)	0.228	0.025
149	12.42	0.87	0.253	(0.525)	0.228	0.025
150	12.50	0.87	0.253	(0.522)	0.228	0.025
151	12.58	0.93	0.272	(0.520)	0.245	0.027
152	12.67	0.93	0.272	(0.517)	0.245	0.027
153	12.75	0.93	0.272	(0.515)	0.245	0.027
154	12.83	0.97	0.282	(0.512)	0.254	0.028
155	12.92	0.97	0.282	(0.509)	0.254	0.028
156	13.00	0.97	0.282	(0.507)	0.254	0.028
157	13.08	1.13	0.331	(0.504)	0.298	0.033
158	13.17	1.13	0.331	(0.502)	0.298	0.033
159	13.25	1.13	0.331	(0.499)	0.298	0.033

160	13.33	1.13	0.331	(0.497)	0.298	0.033
161	13.42	1.13	0.331	(0.494)	0.298	0.033
162	13.50	1.13	0.331	(0.492)	0.298	0.033
163	13.58	0.77	0.224	(0.489)	0.201	0.022
164	13.67	0.77	0.224	(0.487)	0.201	0.022
165	13.75	0.77	0.224	(0.484)	0.201	0.022
166	13.83	0.77	0.224	(0.482)	0.201	0.022
167	13.92	0.77	0.224	(0.479)	0.201	0.022
168	14.00	0.77	0.224	(0.477)	0.201	0.022
169	14.08	0.90	0.263	(0.474)	0.236	0.026
170	14.17	0.90	0.263	(0.472)	0.236	0.026
171	14.25	0.90	0.263	(0.469)	0.236	0.026
172	14.33	0.87	0.253	(0.467)	0.228	0.025
173	14.42	0.87	0.253	(0.465)	0.228	0.025
174	14.50	0.87	0.253	(0.462)	0.228	0.025
175	14.58	0.87	0.253	(0.460)	0.228	0.025
176	14.67	0.87	0.253	(0.458)	0.228	0.025
177	14.75	0.87	0.253	(0.455)	0.228	0.025
178	14.83	0.83	0.243	(0.453)	0.219	0.024
179	14.92	0.83	0.243	(0.451)	0.219	0.024
180	15.00	0.83	0.243	(0.448)	0.219	0.024
181	15.08	0.80	0.234	(0.446)	0.210	0.023
182	15.17	0.80	0.234	(0.444)	0.210	0.023
183	15.25	0.80	0.234	(0.441)	0.210	0.023
184	15.33	0.77	0.224	(0.439)	0.201	0.022
185	15.42	0.77	0.224	(0.437)	0.201	0.022
186	15.50	0.77	0.224	(0.435)	0.201	0.022
187	15.58	0.63	0.185	(0.432)	0.166	0.018
188	15.67	0.63	0.185	(0.430)	0.166	0.018
189	15.75	0.63	0.185	(0.428)	0.166	0.018
190	15.83	0.63	0.185	(0.426)	0.166	0.018
191	15.92	0.63	0.185	(0.424)	0.166	0.018
192	16.00	0.63	0.185	(0.421)	0.166	0.018
193	16.08	0.13	0.039	(0.419)	0.035	0.004
194	16.17	0.13	0.039	(0.417)	0.035	0.004
195	16.25	0.13	0.039	(0.415)	0.035	0.004
196	16.33	0.13	0.039	(0.413)	0.035	0.004
197	16.42	0.13	0.039	(0.411)	0.035	0.004
198	16.50	0.13	0.039	(0.409)	0.035	0.004
199	16.58	0.10	0.029	(0.407)	0.026	0.003
200	16.67	0.10	0.029	(0.405)	0.026	0.003
201	16.75	0.10	0.029	(0.403)	0.026	0.003
202	16.83	0.10	0.029	(0.401)	0.026	0.003
203	16.92	0.10	0.029	(0.398)	0.026	0.003
204	17.00	0.10	0.029	(0.396)	0.026	0.003
205	17.08	0.17	0.049	(0.394)	0.044	0.005
206	17.17	0.17	0.049	(0.392)	0.044	0.005
207	17.25	0.17	0.049	(0.390)	0.044	0.005
208	17.33	0.17	0.049	(0.389)	0.044	0.005
209	17.42	0.17	0.049	(0.387)	0.044	0.005
210	17.50	0.17	0.049	(0.385)	0.044	0.005
211	17.58	0.17	0.049	(0.383)	0.044	0.005
212	17.67	0.17	0.049	(0.381)	0.044	0.005
213	17.75	0.17	0.049	(0.379)	0.044	0.005
214	17.83	0.13	0.039	(0.377)	0.035	0.004
215	17.92	0.13	0.039	(0.375)	0.035	0.004
216	18.00	0.13	0.039	(0.373)	0.035	0.004
217	18.08	0.13	0.039	(0.371)	0.035	0.004
218	18.17	0.13	0.039	(0.370)	0.035	0.004
219	18.25	0.13	0.039	(0.368)	0.035	0.004
220	18.33	0.13	0.039	(0.366)	0.035	0.004
221	18.42	0.13	0.039	(0.364)	0.035	0.004
222	18.50	0.13	0.039	(0.363)	0.035	0.004
223	18.58	0.10	0.029	(0.361)	0.026	0.003
224	18.67	0.10	0.029	(0.359)	0.026	0.003
225	18.75	0.10	0.029	(0.357)	0.026	0.003
226	18.83	0.07	0.019	(0.356)	0.018	0.002
227	18.92	0.07	0.019	(0.354)	0.018	0.002
228	19.00	0.07	0.019	(0.352)	0.018	0.002
229	19.08	0.10	0.029	(0.351)	0.026	0.003
230	19.17	0.10	0.029	(0.349)	0.026	0.003
231	19.25	0.10	0.029	(0.347)	0.026	0.003
232	19.33	0.13	0.039	(0.346)	0.035	0.004
233	19.42	0.13	0.039	(0.344)	0.035	0.004
234	19.50	0.13	0.039	(0.342)	0.035	0.004
235	19.58	0.10	0.029	(0.341)	0.026	0.003
236	19.67	0.10	0.029	(0.339)	0.026	0.003
237	19.75	0.10	0.029	(0.338)	0.026	0.003
238	19.83	0.07	0.019	(0.336)	0.018	0.002
239	19.92	0.07	0.019	(0.335)	0.018	0.002
240	20.00	0.07	0.019	(0.333)	0.018	0.002
241	20.08	0.10	0.029	(0.332)	0.026	0.003
242	20.17	0.10	0.029	(0.330)	0.026	0.003
243	20.25	0.10	0.029	(0.329)	0.026	0.003
244	20.33	0.10	0.029	(0.328)	0.026	0.003
245	20.42	0.10	0.029	(0.326)	0.026	0.003
246	20.50	0.10	0.029	(0.325)	0.026	0.003

247	20.58	0.10	0.029	(	0.323)	0.026	0.003
248	20.67	0.10	0.029	(	0.322)	0.026	0.003
249	20.75	0.10	0.029	(	0.321)	0.026	0.003
250	20.83	0.07	0.019	(	0.319)	0.018	0.002
251	20.92	0.07	0.019	(	0.318)	0.018	0.002
252	21.00	0.07	0.019	(	0.317)	0.018	0.002
253	21.08	0.10	0.029	(	0.316)	0.026	0.003
254	21.17	0.10	0.029	(	0.314)	0.026	0.003
255	21.25	0.10	0.029	(	0.313)	0.026	0.003
256	21.33	0.07	0.019	(	0.312)	0.018	0.002
257	21.42	0.07	0.019	(	0.311)	0.018	0.002
258	21.50	0.07	0.019	(	0.310)	0.018	0.002
259	21.58	0.10	0.029	(	0.308)	0.026	0.003
260	21.67	0.10	0.029	(	0.307)	0.026	0.003
261	21.75	0.10	0.029	(	0.306)	0.026	0.003
262	21.83	0.07	0.019	(	0.305)	0.018	0.002
263	21.92	0.07	0.019	(	0.304)	0.018	0.002
264	22.00	0.07	0.019	(	0.303)	0.018	0.002
265	22.08	0.10	0.029	(	0.302)	0.026	0.003
266	22.17	0.10	0.029	(	0.301)	0.026	0.003
267	22.25	0.10	0.029	(	0.300)	0.026	0.003
268	22.33	0.07	0.019	(	0.299)	0.018	0.002
269	22.42	0.07	0.019	(	0.298)	0.018	0.002
270	22.50	0.07	0.019	(	0.297)	0.018	0.002
271	22.58	0.07	0.019	(	0.297)	0.018	0.002
272	22.67	0.07	0.019	(	0.296)	0.018	0.002
273	22.75	0.07	0.019	(	0.295)	0.018	0.002
274	22.83	0.07	0.019	(	0.294)	0.018	0.002
275	22.92	0.07	0.019	(	0.293)	0.018	0.002
276	23.00	0.07	0.019	(	0.293)	0.018	0.002
277	23.08	0.07	0.019	(	0.292)	0.018	0.002
278	23.17	0.07	0.019	(	0.291)	0.018	0.002
279	23.25	0.07	0.019	(	0.291)	0.018	0.002
280	23.33	0.07	0.019	(	0.290)	0.018	0.002
281	23.42	0.07	0.019	(	0.290)	0.018	0.002
282	23.50	0.07	0.019	(	0.289)	0.018	0.002
283	23.58	0.07	0.019	(	0.289)	0.018	0.002
284	23.67	0.07	0.019	(	0.288)	0.018	0.002
285	23.75	0.07	0.019	(	0.288)	0.018	0.002
286	23.83	0.07	0.019	(	0.287)	0.018	0.002
287	23.92	0.07	0.019	(	0.287)	0.018	0.002
288	24.00	0.07	0.019	(	0.287)	0.018	0.002

(Loss Rate Not Used)

Sum = 100.0 Sum = 2.9

Flood volume = Effective rainfall 0.24(In)
times area 8.3(Ac.)/[(In)/(Ft.)] = 0.2(Ac.Ft)
Total soil loss = 2.19(In)
Total soil loss = 1.520(Ac.Ft)
Total rainfall = 2.43(In)
Flood volume = 7355.0 Cubic Feet
Total soil loss = 66194.7 Cubic Feet

Peak flow rate of this hydrograph = 0.278(CFS)

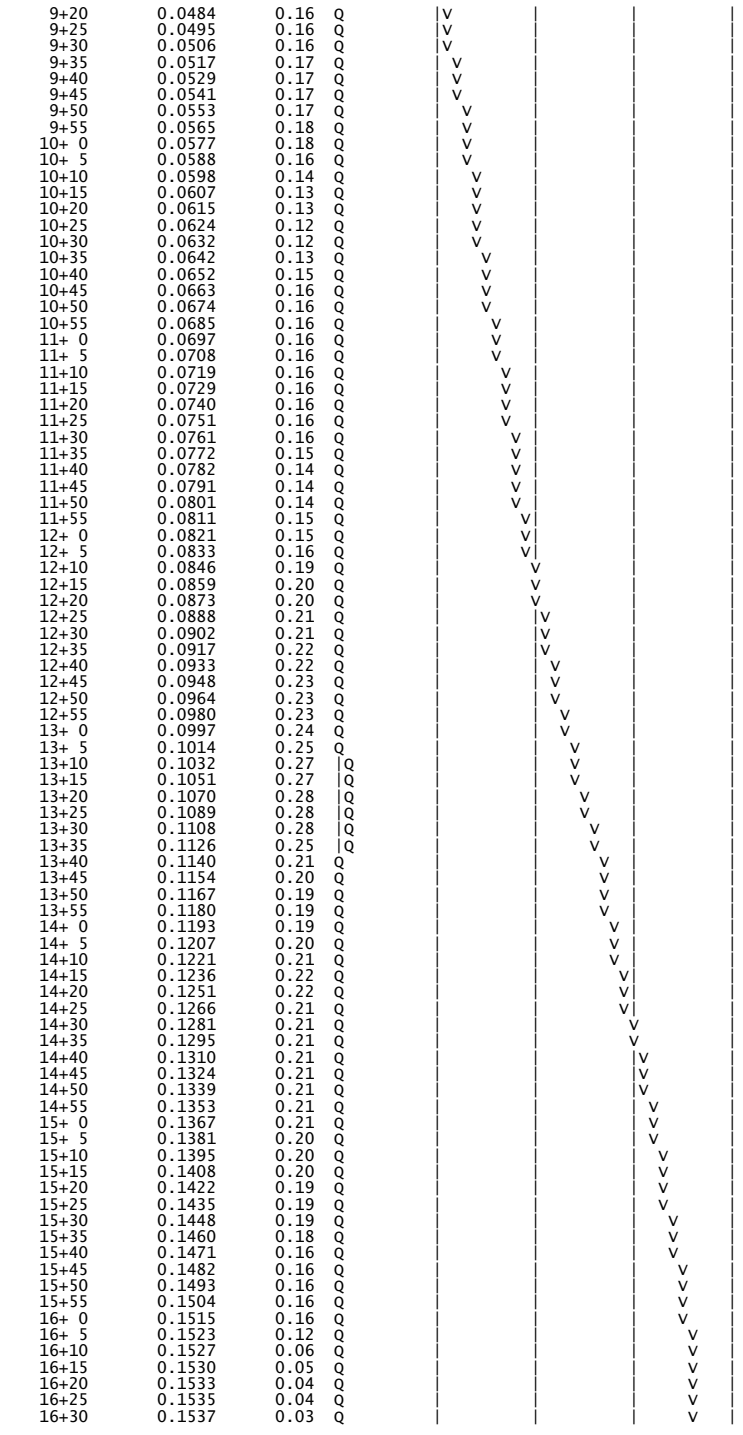
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24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0000	0.00	Q	|	|	|	|
0+10	0.0001	0.01	Q	|	|	|	|
0+15	0.0002	0.01	Q	|	|	|	|
0+20	0.0003	0.02	Q	|	|	|	|
0+25	0.0005	0.02	Q	|	|	|	|
0+30	0.0007	0.02	Q	|	|	|	|
0+35	0.0008	0.02	Q	|	|	|	|
0+40	0.0010	0.02	Q	|	|	|	|
0+45	0.0012	0.02	Q	|	|	|	|
0+50	0.0013	0.03	Q	|	|	|	|
0+55	0.0016	0.03	Q	|	|	|	|
1+ 0	0.0018	0.03	Q	|	|	|	|
1+ 5	0.0020	0.03	Q	|	|	|	|
1+10	0.0022	0.03	Q	|	|	|	|
1+15	0.0023	0.03	Q	|	|	|	|
1+20	0.0025	0.02	Q	|	|	|	|
1+25	0.0027	0.02	Q	|	|	|	|
1+30	0.0029	0.02	Q	|	|	|	|
1+35	0.0030	0.02	Q	|	|	|	|
1+40	0.0032	0.02	Q	|	|	|	|
1+45	0.0034	0.02	Q	|	|	|	|
1+50	0.0035	0.03	Q	|	|	|	|
1+55	0.0038	0.03	Q	|	|	|	|
2+ 0	0.0040	0.03	Q	|	|	|	|

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2+ 5       0.0042      0.03  Q          |          |          |          |
2+10       0.0044      0.03  QV         |          |          |          |
2+15       0.0046      0.03  QV         |          |          |          |
2+20       0.0049      0.03  QV         |          |          |          |
2+25       0.0051      0.03  QV         |          |          |          |
2+30       0.0053      0.03  QV         |          |          |          |
2+35       0.0056      0.04  QV         |          |          |          |
2+40       0.0058      0.04  QV         |          |          |          |
2+45       0.0061      0.04  QV         |          |          |          |
2+50       0.0064      0.04  QV         |          |          |          |
2+55       0.0067      0.04  QV         |          |          |          |
3+ 0       0.0069      0.04  QV         |          |          |          |
3+ 5       0.0072      0.04  QV         |          |          |          |
3+10       0.0075      0.04  QV         |          |          |          |
3+15       0.0078      0.04  QV         |          |          |          |
3+20       0.0081      0.04  QV         |          |          |          |
3+25       0.0084      0.04  QV         |          |          |          |
3+30       0.0086      0.04  Q V        |          |          |          |
3+35       0.0089      0.04  Q V        |          |          |          |
3+40       0.0092      0.04  Q V        |          |          |          |
3+45       0.0095      0.04  Q V        |          |          |          |
3+50       0.0098      0.04  Q V        |          |          |          |
3+55       0.0101      0.05  Q V        |          |          |          |
4+ 0       0.0104      0.05  Q V        |          |          |          |
4+ 5       0.0108      0.05  Q V        |          |          |          |
4+10       0.0111      0.05  Q V        |          |          |          |
4+15       0.0114      0.05  Q V        |          |          |          |
4+20       0.0118      0.05  Q V        |          |          |          |
4+25       0.0122      0.06  Q V        |          |          |          |
4+30       0.0126      0.06  Q V        |          |          |          |
4+35       0.0130      0.06  Q  V       |          |          |          |
4+40       0.0134      0.06  Q  V       |          |          |          |
4+45       0.0137      0.06  Q  V       |          |          |          |
4+50       0.0142      0.06  Q  V       |          |          |          |
4+55       0.0146      0.06  Q  V       |          |          |          |
5+ 0       0.0150      0.06  Q  V       |          |          |          |
5+ 5       0.0155      0.06  Q  V       |          |          |          |
5+10       0.0158      0.05  Q  V       |          |          |          |
5+15       0.0162      0.05  Q  V       |          |          |          |
5+20       0.0165      0.05  Q  V       |          |          |          |
5+25       0.0169      0.06  Q   V      |          |          |          |
5+30       0.0173      0.06  Q   V      |          |          |          |
5+35       0.0177      0.06  Q   V      |          |          |          |
5+40       0.0181      0.06  Q   V      |          |          |          |
5+45       0.0186      0.06  Q   V      |          |          |          |
5+50       0.0190      0.06  Q   V      |          |          |          |
5+55       0.0195      0.07  Q   V      |          |          |          |
6+ 0       0.0199      0.07  Q   V      |          |          |          |
6+ 5       0.0204      0.07  Q   V      |          |          |          |
6+10       0.0209      0.07  Q   V      |          |          |          |
6+15       0.0214      0.07  Q    V     |          |          |          |
6+20       0.0219      0.07  Q    V     |          |          |          |
6+25       0.0224      0.07  Q    V     |          |          |          |
6+30       0.0229      0.07  Q    V     |          |          |          |
6+35       0.0234      0.08  Q    V     |          |          |          |
6+40       0.0240      0.08  Q    V     |          |          |          |
6+45       0.0245      0.08  Q    V     |          |          |          |
6+50       0.0251      0.08  Q    V     |          |          |          |
6+55       0.0257      0.08  Q     V    |          |          |          |
7+ 0       0.0262      0.08  Q     V    |          |          |          |
7+ 5       0.0268      0.08  Q     V    |          |          |          |
7+10       0.0273      0.08  Q     V    |          |          |          |
7+15       0.0279      0.08  Q     V    |          |          |          |
7+20       0.0285      0.08  Q     V    |          |          |          |
7+25       0.0291      0.09  Q     V    |          |          |          |
7+30       0.0297      0.09  Q      V   |          |          |          |
7+35       0.0303      0.09  Q      V   |          |          |          |
7+40       0.0310      0.10  Q      V   |          |          |          |
7+45       0.0317      0.10  Q      V   |          |          |          |
7+50       0.0324      0.10  Q      V   |          |          |          |
7+55       0.0331      0.10  Q      V   |          |          |          |
8+ 0       0.0338      0.11  Q       V  |          |          |          |
8+ 5       0.0346      0.11  Q       V  |          |          |          |
8+10       0.0354      0.12  Q       V  |          |          |          |
8+15       0.0362      0.12  Q       V  |          |          |          |
8+20       0.0371      0.12  Q       V  |          |          |          |
8+25       0.0379      0.12  Q       V  |          |          |          |
8+30       0.0387      0.12  Q        V|          |          |          |
8+35       0.0396      0.12  Q        V|          |          |          |
8+40       0.0405      0.13  Q        V|          |          |          |
8+45       0.0414      0.13  Q        V|          |          |          |
8+50       0.0423      0.13  Q         V          |          |          |
8+55       0.0432      0.14  Q         V          |          |          |
9+ 0       0.0442      0.14  Q         V          |          |          |
9+ 5       0.0452      0.14  Q         V          |          |          |
9+10       0.0462      0.15  Q         V          |          |          |
9+15       0.0473      0.15  Q         |V         |          |          |
```



9+20	0.0484	0.16	Q	
9+25	0.0495	0.16	Q	
9+30	0.0506	0.16	Q	
9+35	0.0517	0.17	Q	
9+40	0.0529	0.17	Q	
9+45	0.0541	0.17	Q	
9+50	0.0553	0.17	Q	
9+55	0.0565	0.18	Q	
10+ 0	0.0577	0.18	Q	
10+ 5	0.0588	0.16	Q	
10+10	0.0598	0.14	Q	
10+15	0.0607	0.13	Q	
10+20	0.0615	0.13	Q	
10+25	0.0624	0.12	Q	
10+30	0.0632	0.12	Q	
10+35	0.0642	0.13	Q	
10+40	0.0652	0.15	Q	
10+45	0.0663	0.16	Q	
10+50	0.0674	0.16	Q	
10+55	0.0685	0.16	Q	
11+ 0	0.0697	0.16	Q	
11+ 5	0.0708	0.16	Q	
11+10	0.0719	0.16	Q	
11+15	0.0729	0.16	Q	
11+20	0.0740	0.16	Q	
11+25	0.0751	0.16	Q	
11+30	0.0761	0.16	Q	
11+35	0.0772	0.15	Q	
11+40	0.0782	0.14	Q	
11+45	0.0791	0.14	Q	
11+50	0.0801	0.14	Q	
11+55	0.0811	0.15	Q	
12+ 0	0.0821	0.15	Q	
12+ 5	0.0833	0.16	Q	
12+10	0.0846	0.19	Q	
12+15	0.0859	0.20	Q	
12+20	0.0873	0.20	Q	
12+25	0.0888	0.21	Q	
12+30	0.0902	0.21	Q	
12+35	0.0917	0.22	Q	
12+40	0.0933	0.22	Q	
12+45	0.0948	0.23	Q	
12+50	0.0964	0.23	Q	
12+55	0.0980	0.23	Q	
13+ 0	0.0997	0.24	Q	
13+ 5	0.1014	0.25	Q	
13+10	0.1032	0.27	Q	
13+15	0.1051	0.27	Q	
13+20	0.1070	0.28	Q	
13+25	0.1089	0.28	Q	
13+30	0.1108	0.28	Q	
13+35	0.1126	0.25	Q	
13+40	0.1140	0.21	Q	
13+45	0.1154	0.20	Q	
13+50	0.1167	0.19	Q	
13+55	0.1180	0.19	Q	
14+ 0	0.1193	0.19	Q	
14+ 5	0.1207	0.20	Q	
14+10	0.1221	0.21	Q	
14+15	0.1236	0.22	Q	
14+20	0.1251	0.22	Q	
14+25	0.1266	0.21	Q	
14+30	0.1281	0.21	Q	
14+35	0.1295	0.21	Q	
14+40	0.1310	0.21	Q	
14+45	0.1324	0.21	Q	
14+50	0.1339	0.21	Q	
14+55	0.1353	0.21	Q	
15+ 0	0.1367	0.21	Q	
15+ 5	0.1381	0.20	Q	
15+10	0.1395	0.20	Q	
15+15	0.1408	0.20	Q	
15+20	0.1422	0.19	Q	
15+25	0.1435	0.19	Q	
15+30	0.1448	0.19	Q	
15+35	0.1460	0.18	Q	
15+40	0.1471	0.16	Q	
15+45	0.1482	0.16	Q	
15+50	0.1493	0.16	Q	
15+55	0.1504	0.16	Q	
16+ 0	0.1515	0.16	Q	
16+ 5	0.1523	0.12	Q	
16+10	0.1527	0.06	Q	
16+15	0.1530	0.05	Q	
16+20	0.1533	0.04	Q	
16+25	0.1535	0.04	Q	
16+30	0.1537	0.03	Q	

```
16+35       0.1539      0.03  Q          |          |          |     V    |
16+40       0.1541      0.03  Q          |          |          |     V    |
16+45       0.1543      0.03  Q          |          |          |     V    |
16+50       0.1545      0.02  Q          |          |          |     V    |
16+55       0.1546      0.02  Q          |          |          |     V    |
17+ 0       0.1548      0.02  Q          |          |          |     V    |
17+ 5       0.1550      0.03  Q          |          |          |     V    |
17+10       0.1553      0.04  Q          |          |          |     V    |
17+15       0.1555      0.04  Q          |          |          |     V    |
17+20       0.1558      0.04  Q          |          |          |     V    |
17+25       0.1561      0.04  Q          |          |          |     V    |
17+30       0.1564      0.04  Q          |          |          |      V   |
17+35       0.1567      0.04  Q          |          |          |      V   |
17+40       0.1569      0.04  Q          |          |          |      V   |
17+45       0.1572      0.04  Q          |          |          |      V   |
17+50       0.1575      0.04  Q          |          |          |      V   |
17+55       0.1577      0.03  Q          |          |          |      V   |
18+ 0       0.1580      0.03  Q          |          |          |      V   |
18+ 5       0.1582      0.03  Q          |          |          |      V   |
18+10       0.1584      0.03  Q          |          |          |      V   |
18+15       0.1586      0.03  Q          |          |          |      V   |
18+20       0.1589      0.03  Q          |          |          |      V   |
18+25       0.1591      0.03  Q          |          |          |      V   |
18+30       0.1593      0.03  Q          |          |          |      V   |
18+35       0.1595      0.03  Q          |          |          |      V   |
18+40       0.1597      0.03  Q          |          |          |      V   |
18+45       0.1599      0.03  Q          |          |          |      V   |
18+50       0.1600      0.02  Q          |          |          |      V   |
18+55       0.1602      0.02  Q          |          |          |      V   |
19+ 0       0.1603      0.02  Q          |          |          |      V   |
19+ 5       0.1604      0.02  Q          |          |          |       V  |
19+10       0.1606      0.02  Q          |          |          |       V  |
19+15       0.1607      0.02  Q          |          |          |       V  |
19+20       0.1609      0.03  Q          |          |          |       V  |
19+25       0.1611      0.03  Q          |          |          |       V  |
19+30       0.1613      0.03  Q          |          |          |       V  |
19+35       0.1615      0.03  Q          |          |          |       V  |
19+40       0.1617      0.03  Q          |          |          |       V  |
19+45       0.1619      0.03  Q          |          |          |       V  |
19+50       0.1621      0.02  Q          |          |          |       V  |
19+55       0.1622      0.02  Q          |          |          |       V  |
20+ 0       0.1623      0.02  Q          |          |          |       V  |
20+ 5       0.1624      0.02  Q          |          |          |       V  |
20+10       0.1626      0.02  Q          |          |          |       V  |
20+15       0.1628      0.02  Q          |          |          |       V  |
20+20       0.1629      0.02  Q          |          |          |       V  |
20+25       0.1631      0.02  Q          |          |          |       V  |
20+30       0.1633      0.02  Q          |          |          |       V  |
20+35       0.1634      0.02  Q          |          |          |       V  |
20+40       0.1636      0.02  Q          |          |          |       V  |
20+45       0.1638      0.02  Q          |          |          |       V  |
20+50       0.1639      0.02  Q          |          |          |       V  |
20+55       0.1640      0.02  Q          |          |          |       V  |
21+ 0       0.1642      0.02  Q          |          |          |       V  |
21+ 5       0.1643      0.02  Q          |          |          |       V  |
21+10       0.1644      0.02  Q          |          |          |       V  |
21+15       0.1646      0.02  Q          |          |          |       V  |
21+20       0.1648      0.02  Q          |          |          |        V |
21+25       0.1649      0.02  Q          |          |          |        V |
21+30       0.1650      0.02  Q          |          |          |        V |
21+35       0.1651      0.02  Q          |          |          |        V |
21+40       0.1653      0.02  Q          |          |          |        V |
21+45       0.1655      0.02  Q          |          |          |        V |
21+50       0.1656      0.02  Q          |          |          |        V |
21+55       0.1657      0.02  Q          |          |          |        V |
22+ 0       0.1658      0.02  Q          |          |          |        V |
22+ 5       0.1660      0.02  Q          |          |          |        V |
22+10       0.1661      0.02  Q          |          |          |        V |
22+15       0.1663      0.02  Q          |          |          |        V |
22+20       0.1664      0.02  Q          |          |          |        V |
22+25       0.1666      0.02  Q          |          |          |        V |
22+30       0.1667      0.02  Q          |          |          |        V |
22+35       0.1668      0.02  Q          |          |          |        V |
22+40       0.1669      0.02  Q          |          |          |        V |
22+45       0.1670      0.02  Q          |          |          |        V |
22+50       0.1671      0.02  Q          |          |          |        V |
22+55       0.1673      0.02  Q          |          |          |        V |
23+ 0       0.1674      0.02  Q          |          |          |        V |
23+ 5       0.1675      0.02  Q          |          |          |        V |
23+10       0.1676      0.02  Q          |          |          |        V |
23+15       0.1677      0.02  Q          |          |          |        V |
23+20       0.1678      0.02  Q          |          |          |        V |
23+25       0.1679      0.02  Q          |          |          |        V |
23+30       0.1680      0.02  Q          |          |          |        V |
23+35       0.1682      0.02  Q          |          |          |        V |
23+40       0.1683      0.02  Q          |          |          |        V |
23+45       0.1684      0.02  Q          |          |          |        V |
```

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   23+50       0.1685      0.02  Q          |          |          |         V|
   23+55       0.1686      0.02  Q          |          |          |         V|
   24+ 0       0.1687      0.02  Q          |          |          |         V|
   24+ 5       0.1688      0.01  Q          |          |          |         V|
   24+10       0.1688      0.00  Q          |          |          |         V|
   24+15       0.1688      0.00  Q          |          |          |         V|
   24+20       0.1688      0.00  Q          |          |          |         V|
   24+25       0.1688      0.00  Q          |          |          |          V
-------------------------------------------------------------------------------
```

```
       U n i t   H y d r o g r a p h   A n a l y s i s

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              Study date  02/28/22 File: ex10110.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       8.33(Ac.)  =      0.013 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       8.33(Ac.)  =      0.013 Sq. Mi.
Length along longest watercourse =     911.00(Ft.)
Length along longest watercourse measured to centroid =     456.00(Ft.)
Length along longest watercourse =      0.173 Mi.
Length along longest watercourse measured to centroid =      0.086 Mi.
Difference in elevation =      16.00(Ft.)
Slope along watercourse =     92.7333 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time =    0.062 Hr.
Lag time =     3.69 Min.
25% of lag time =     0.92 Min.
40% of lag time =     1.48 Min.
Unit time =     5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            0.50                 4.17

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            1.20                10.00

STORM EVENT (YEAR) =   10.00
Area Averaged 2-Year Rainfall =    0.500(In)
Area Averaged 100-Year Rainfall =    1.200(In)

Point rain (area averaged) =    0.788(In)
Areal adjustment factor =   99.99 %
Adjusted average point rain =    0.788(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     8.330           69.00          0.000
 Total Area Entered =      8.33(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-2     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
69.0  69.0      0.373     0.000        0.373       1.000      0.373
                                                 Sum (F) =   0.373
Area averaged mean soil loss (F) (In/Hr) =  0.373
Minimum soil loss rate ((In/Hr)) =  0.186
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.900
------------------------------------------------------------------------
Slope of intensity-duration curve for a 1 hour storm =0.5000
------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
------------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
```

	(hrs)		Graph %	(CFS)
1	0.083	135.344	29.460	2.473
2	0.167	270.688	47.995	4.029
3	0.250	406.032	12.120	1.017
4	0.333	541.376	5.371	0.451
5	0.417	676.720	2.918	0.245
6	0.500	812.064	2.136	0.179
		Sum = 100.000	Sum=	8.395

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	4.20	0.397	(0.373)	0.357	0.040
2	0.17	4.30	0.407	(0.373)	0.366	0.041
3	0.25	5.00	0.473	0.373	(0.425)	0.100
4	0.33	5.00	0.473	0.373	(0.425)	0.100
5	0.42	5.80	0.548	0.373	(0.494)	0.176
6	0.50	6.50	0.615	0.373	(0.553)	0.242
7	0.58	7.40	0.700	0.373	(0.630)	0.327
8	0.67	8.60	0.813	0.373	(0.732)	0.440
9	0.75	12.30	1.163	0.373	(1.047)	0.790
10	0.83	29.10	2.751	0.373	(2.476)	2.379
11	0.92	6.80	0.643	0.373	(0.579)	0.270
12	1.00	5.00	0.473	0.373	(0.425)	0.100
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	5.0

Flood volume = Effective rainfall 0.42(In)
times area 8.3(Ac.)/[(In)/(Ft.)] = 0.3(Ac.Ft)
Total soil loss = 0.37(In)
Total soil loss = 0.257(Ac.Ft)
Total rainfall = 0.79(In)
Flood volume = 12608.7 Cubic Feet
Total soil loss = 11216.5 Cubic Feet

Peak flow rate of this hydrograph = 11.384(CFS)

++

1 - 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 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	5.0	10.0	15.0	20.0
0+ 5	0.0007	0.10	Q				
0+10	0.0025	0.26	Q				
0+15	0.0056	0.45	Q				
0+20	0.0105	0.71	Q				
0+25	0.0171	0.97	QV				
0+30	0.0273	1.47	QV				
0+35	0.0413	2.04	QV				
0+40	0.0604	2.78	Q V				
0+45	0.0896	4.23	Q V				
0+50	0.1568	9.76	Q V				
0+55	0.2352	11.38	Q V				
1+ 0	0.2647	4.28	Q V				
1+ 5	0.2786	2.02	Q V				
1+10	0.2851	0.95	Q V				
1+15	0.2888	0.54	Q V				
1+20	0.2893	0.07	Q V				
1+25	0.2895	0.02	Q V				

```
       U n i t   H y d r o g r a p h   A n a l y s i s

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              Study date  02/28/22 File: ex10310.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       8.33(Ac.)  =      0.013 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       8.33(Ac.)  =      0.013 Sq. Mi.
Length along longest watercourse =     911.00(Ft.)
Length along longest watercourse measured to centroid =     456.00(Ft.)
Length along longest watercourse =      0.173 Mi.
Length along longest watercourse measured to centroid =      0.086 Mi.
Difference in elevation =      16.00(Ft.)
Slope along watercourse =     92.7333 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time =    0.062 Hr.
Lag time =     3.69 Min.
25% of lag time =     0.92 Min.
40% of lag time =     1.48 Min.
Unit time =     5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            0.80                 6.66

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            1.90                15.83

STORM EVENT (YEAR) =   10.00
Area Averaged 2-Year Rainfall =    0.800(In)
Area Averaged 100-Year Rainfall =    1.900(In)

Point rain (area averaged) =    1.253(In)
Areal adjustment factor =  100.00 %
Adjusted average point rain =    1.253(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     8.330           69.00          0.000
 Total Area Entered =      8.33(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-2     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
69.0  69.0      0.373     0.000        0.373       1.000      0.373
                                                 Sum (F) =   0.373
Area averaged mean soil loss (F) (In/Hr) =  0.373
Minimum soil loss rate ((In/Hr)) =  0.186
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.900
------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
-------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
    (hrs)                          Graph %           (CFS)
------------------------------------------------------------------------
```

1	0.083	135.344	29.460	2.473
2	0.167	270.688	47.995	4.029
3	0.250	406.032	12.120	1.017
4	0.333	541.376	5.371	0.451
5	0.417	676.720	2.918	0.245
6	0.500	812.064	2.136	0.179
			Sum = 100.000	Sum= 8.395

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	1.30	0.195	(0.373)	0.176	0.020
2	0.17	1.30	0.195	(0.373)	0.176	0.020
3	0.25	1.10	0.165	(0.373)	0.149	0.017
4	0.33	1.50	0.225	(0.373)	0.203	0.023
5	0.42	1.50	0.225	(0.373)	0.203	0.023
6	0.50	1.80	0.271	(0.373)	0.243	0.027
7	0.58	1.50	0.225	(0.373)	0.203	0.023
8	0.67	1.80	0.271	(0.373)	0.243	0.027
9	0.75	1.80	0.271	(0.373)	0.243	0.027
10	0.83	1.50	0.225	(0.373)	0.203	0.023
11	0.92	1.60	0.240	(0.373)	0.216	0.024
12	1.00	1.80	0.271	(0.373)	0.243	0.027
13	1.08	2.20	0.331	(0.373)	0.298	0.033
14	1.17	2.20	0.331	(0.373)	0.298	0.033
15	1.25	2.20	0.331	(0.373)	0.298	0.033
16	1.33	2.00	0.301	(0.373)	0.271	0.030
17	1.42	2.60	0.391	(0.373)	0.352	0.039
18	1.50	2.70	0.406	(0.373)	0.365	0.041
19	1.58	2.40	0.361	(0.373)	0.325	0.036
20	1.67	2.70	0.406	(0.373)	0.365	0.041
21	1.75	3.30	0.496	0.373	(0.446)	0.123
22	1.83	3.10	0.466	0.373	(0.419)	0.093
23	1.92	2.90	0.436	0.373	(0.392)	0.063
24	2.00	3.00	0.451	0.373	(0.406)	0.078
25	2.08	3.10	0.466	0.373	(0.419)	0.093
26	2.17	4.20	0.631	0.373	(0.568)	0.258
27	2.25	5.00	0.752	0.373	(0.676)	0.379
28	2.33	3.50	0.526	0.373	(0.473)	0.153
29	2.42	6.80	1.022	0.373	(0.920)	0.649
30	2.50	7.30	1.097	0.373	(0.987)	0.724
31	2.58	8.20	1.232	0.373	(1.109)	0.860
32	2.67	5.90	0.887	0.373	(0.798)	0.514
33	2.75	2.00	0.301	(0.373)	0.271	0.030
34	2.83	1.80	0.271	(0.373)	0.243	0.027
35	2.92	1.80	0.271	(0.373)	0.243	0.027
36	3.00	0.60	0.090	(0.373)	0.081	0.009
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	4.6

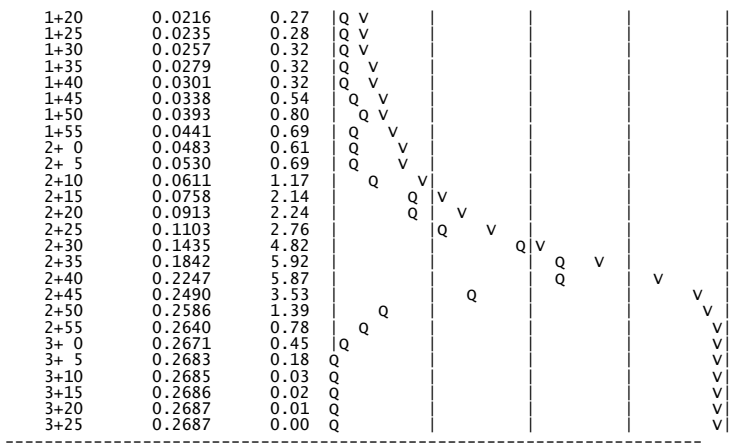
Flood volume = Effective rainfall 0.39(In)
times area 8.3(Ac.)/[(In)/(Ft.)] = 0.3(Ac.Ft)
Total soil loss = 0.87(In)
Total soil loss = 0.601(Ac.Ft)
Total rainfall = 1.25(In)
Flood volume = 11704.9 Cubic Feet
Total soil loss = 26168.2 Cubic Feet

Peak flow rate of this hydrograph = 5.917(CFS)

3 - 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 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0003	0.05	Q				
0+10	0.0012	0.13	Q				
0+15	0.0022	0.14	Q				
0+20	0.0032	0.15	Q				
0+25	0.0044	0.18	Q				
0+30	0.0058	0.20	Q				
0+35	0.0072	0.21	QV				
0+40	0.0086	0.20	QV				
0+45	0.0101	0.22	QV				
0+50	0.0116	0.21	QV				
0+55	0.0130	0.20	QV				
1+ 0	0.0144	0.21	Q V				
1+ 5	0.0161	0.24	Q V				
1+10	0.0179	0.26	|QV				
1+15	0.0197	0.27	|QV				


1+20 0.0216 0.27
1+25 0.0235 0.28
1+30 0.0257 0.32
1+35 0.0279 0.32
1+40 0.0301 0.32
1+45 0.0338 0.54
1+50 0.0393 0.80
1+55 0.0441 0.69
2+ 0 0.0483 0.61
2+ 5 0.0530 0.69
2+10 0.0611 1.17
2+15 0.0758 2.14
2+20 0.0913 2.24
2+25 0.1103 2.76
2+30 0.1435 4.82
2+35 0.1842 5.92
2+40 0.2247 5.87
2+45 0.2490 3.53
2+50 0.2586 1.39
2+55 0.2640 0.78
3+ 0 0.2671 0.45
3+ 5 0.2683 0.18
3+10 0.2685 0.03
3+15 0.2686 0.02
3+20 0.2687 0.01
3+25 0.2687 0.00

```
       U n i t   H y d r o g r a p h   A n a l y s i s

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              Study date  02/28/22 File: ex10610.out

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------------------------------------------------------------------------------

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------------
------------------------------------------------------------------------------
Drainage Area =       8.33(Ac.)  =      0.013 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       8.33(Ac.)  =      0.013 Sq. Mi.
Length along longest watercourse =     911.00(Ft.)
Length along longest watercourse measured to centroid =     456.00(Ft.)
Length along longest watercourse =      0.173 Mi.
Length along longest watercourse measured to centroid =      0.086 Mi.
Difference in elevation =      16.00(Ft.)
Slope along watercourse =     92.7333 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time =    0.062 Hr.
Lag time =     3.69 Min.
25% of lag time =     0.92 Min.
40% of lag time =     1.48 Min.
Unit time =     5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            1.20                 10.00

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            2.50                 20.82

STORM EVENT (YEAR) =   10.00
Area Averaged 2-Year Rainfall =    1.200(In)
Area Averaged 100-Year Rainfall =    2.500(In)

Point rain (area averaged) =    1.735(In)
Areal adjustment factor =  100.00 %
Adjusted average point rain =    1.735(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     8.330           69.00          0.000
 Total Area Entered =      8.33(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-2     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
69.0  69.0      0.373     0.000        0.373       1.000      0.373
                                                 Sum (F) =   0.373
Area averaged mean soil loss (F) (In/Hr) =  0.373
Minimum soil loss rate ((In/Hr)) =  0.186
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.900
------------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
------------------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
    (hrs)                          Graph %           (CFS)
------------------------------------------------------------------------------
```

1	0.083	135.344	29.460		2.473
2	0.167	270.688	47.995		4.029
3	0.250	406.032	12.120		1.017
4	0.333	541.376	5.371		0.451
5	0.417	676.720	2.918		0.245
6	0.500	812.064	2.136		0.179
			Sum = 100.000	Sum=	8.395

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.104	(0.373)	0.094	0.010
2	0.17	0.60	0.125	(0.373)	0.112	0.012
3	0.25	0.60	0.125	(0.373)	0.112	0.012
4	0.33	0.60	0.125	(0.373)	0.112	0.012
5	0.42	0.60	0.125	(0.373)	0.112	0.012
6	0.50	0.70	0.146	(0.373)	0.131	0.015
7	0.58	0.70	0.146	(0.373)	0.131	0.015
8	0.67	0.70	0.146	(0.373)	0.131	0.015
9	0.75	0.70	0.146	(0.373)	0.131	0.015
10	0.83	0.70	0.146	(0.373)	0.131	0.015
11	0.92	0.70	0.146	(0.373)	0.131	0.015
12	1.00	0.80	0.167	(0.373)	0.150	0.017
13	1.08	0.80	0.167	(0.373)	0.150	0.017
14	1.17	0.80	0.167	(0.373)	0.150	0.017
15	1.25	0.80	0.167	(0.373)	0.150	0.017
16	1.33	0.80	0.167	(0.373)	0.150	0.017
17	1.42	0.80	0.167	(0.373)	0.150	0.017
18	1.50	0.80	0.167	(0.373)	0.150	0.017
19	1.58	0.80	0.167	(0.373)	0.150	0.017
20	1.67	0.80	0.167	(0.373)	0.150	0.017
21	1.75	0.80	0.167	(0.373)	0.150	0.017
22	1.83	0.80	0.167	(0.373)	0.150	0.017
23	1.92	0.80	0.167	(0.373)	0.150	0.017
24	2.00	0.90	0.187	(0.373)	0.169	0.019
25	2.08	0.80	0.167	(0.373)	0.150	0.017
26	2.17	0.90	0.187	(0.373)	0.169	0.019
27	2.25	0.90	0.187	(0.373)	0.169	0.019
28	2.33	0.90	0.187	(0.373)	0.169	0.019
29	2.42	0.90	0.187	(0.373)	0.169	0.019
30	2.50	0.90	0.187	(0.373)	0.169	0.019
31	2.58	0.90	0.187	(0.373)	0.169	0.019
32	2.67	0.90	0.187	(0.373)	0.169	0.019
33	2.75	1.00	0.208	(0.373)	0.187	0.021
34	2.83	1.00	0.208	(0.373)	0.187	0.021
35	2.92	1.00	0.208	(0.373)	0.187	0.021
36	3.00	1.00	0.208	(0.373)	0.187	0.021
37	3.08	1.00	0.208	(0.373)	0.187	0.021
38	3.17	1.10	0.229	(0.373)	0.206	0.023
39	3.25	1.10	0.229	(0.373)	0.206	0.023
40	3.33	1.10	0.229	(0.373)	0.206	0.023
41	3.42	1.20	0.250	(0.373)	0.225	0.025
42	3.50	1.30	0.271	(0.373)	0.244	0.027
43	3.58	1.40	0.291	(0.373)	0.262	0.029
44	3.67	1.40	0.291	(0.373)	0.262	0.029
45	3.75	1.50	0.312	(0.373)	0.281	0.031
46	3.83	1.50	0.312	(0.373)	0.281	0.031
47	3.92	1.60	0.333	(0.373)	0.300	0.033
48	4.00	1.60	0.333	(0.373)	0.300	0.033
49	4.08	1.70	0.354	(0.373)	0.319	0.035
50	4.17	1.80	0.375	(0.373)	0.337	0.037
51	4.25	1.90	0.396	(0.373)	0.356	0.040
52	4.33	2.00	0.416	0.373	(0.375)	0.044
53	4.42	2.10	0.437	0.373	(0.393)	0.064
54	4.50	2.10	0.437	0.373	(0.393)	0.064
55	4.58	2.20	0.458	0.373	(0.412)	0.085
56	4.67	2.30	0.479	0.373	(0.431)	0.106
57	4.75	2.40	0.500	0.373	(0.450)	0.127
58	4.83	2.40	0.500	0.373	(0.450)	0.127
59	4.92	2.50	0.520	0.373	(0.468)	0.148
60	5.00	2.60	0.541	0.373	(0.487)	0.168
61	5.08	3.10	0.645	0.373	(0.581)	0.273
62	5.17	3.60	0.749	0.373	(0.674)	0.377
63	5.25	3.90	0.812	0.373	(0.731)	0.439
64	5.33	4.20	0.874	0.373	(0.787)	0.502
65	5.42	4.70	0.978	0.373	(0.881)	0.606
66	5.50	5.60	1.166	0.373	(1.049)	0.793
67	5.58	1.90	0.396	(0.373)	0.356	0.040
68	5.67	0.90	0.187	(0.373)	0.169	0.019
69	5.75	0.60	0.125	(0.373)	0.112	0.012
70	5.83	0.50	0.104	(0.373)	0.094	0.010
71	5.92	0.30	0.062	(0.373)	0.056	0.006
72	6.00	0.20	0.042	(0.373)	0.037	0.004

```
            (Loss Rate Not Used)
 Sum =     100.0                                  Sum =     5.1
    Flood volume = Effective rainfall      0.42(In)
     times area       8.3(Ac.)/[(In)/(Ft.)] =       0.3(Ac.Ft)
    Total soil loss =      1.31(In)
    Total soil loss =     0.912(Ac.Ft)
    Total rainfall =      1.73(In)
    Flood volume =       12730.0 Cubic Feet
    Total soil loss =      39726.2 Cubic Feet
    ---------------------------------------------------------------------
     Peak flow rate of this hydrograph =      5.253(CFS)
    ---------------------------------------------------------------------
    +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                          6 - 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   5   Minute intervals ((CFS))

    ---------------------------------------------------------------------
Time(h+m) Volume Ac.Ft   Q(CFS)  0        2.5       5.0       7.5      10.0
-------------------------------------------------------------------------
  0+ 5       0.0002      0.03  Q         |         |         |         |
  0+10       0.0007      0.07  Q         |         |         |         |
  0+15       0.0013      0.09  Q         |         |         |         |
  0+20       0.0020      0.10  Q         |         |         |         |
  0+25       0.0027      0.10  Q         |         |         |         |
  0+30       0.0035      0.11  Q         |         |         |         |
  0+35       0.0043      0.12  Q         |         |         |         |
  0+40       0.0051      0.12  Q         |         |         |         |
  0+45       0.0059      0.12  Q         |         |         |         |
  0+50       0.0068      0.12  Q         |         |         |         |
  0+55       0.0076      0.12  QV        |         |         |         |
  1+ 0       0.0085      0.13  QV        |         |         |         |
  1+ 5       0.0094      0.14  QV        |         |         |         |
  1+10       0.0104      0.14  QV        |         |         |         |
  1+15       0.0113      0.14  QV        |         |         |         |
  1+20       0.0123      0.14  QV        |         |         |         |
  1+25       0.0133      0.14  QV        |         |         |         |
  1+30       0.0142      0.14  QV        |         |         |         |
  1+35       0.0152      0.14  Q V       |         |         |         |
  1+40       0.0162      0.14  Q V       |         |         |         |
  1+45       0.0171      0.14  Q V       |         |         |         |
  1+50       0.0181      0.14  Q V       |         |         |         |
  1+55       0.0190      0.14  Q V       |         |         |         |
  2+ 0       0.0200      0.15  Q V       |         |         |         |
  2+ 5       0.0211      0.15  Q V       |         |         |         |
  2+10       0.0221      0.15  Q  V      |         |         |         |
  2+15       0.0231      0.15  Q  V      |         |         |         |
  2+20       0.0242      0.16  Q  V      |         |         |         |
  2+25       0.0253      0.16  Q  V      |         |         |         |
  2+30       0.0264      0.16  Q  V      |         |         |         |
  2+35       0.0275      0.16  Q  V      |         |         |         |
  2+40       0.0285      0.16  Q  V      |         |         |         |
  2+45       0.0297      0.16  Q   V     |         |         |         |
  2+50       0.0308      0.17  Q   V     |         |         |         |
  2+55       0.0320      0.17  Q   V     |         |         |         |
  3+ 0       0.0332      0.17  Q   V     |         |         |         |
  3+ 5       0.0344      0.17  Q   V     |         |         |         |
  3+10       0.0357      0.18  Q   V     |         |         |         |
  3+15       0.0370      0.19  Q    V    |         |         |         |
  3+20       0.0383      0.19  Q    V    |         |         |         |
  3+25       0.0396      0.20  Q    V    |         |         |         |
  3+30       0.0411      0.21  Q    V    |         |         |         |
  3+35       0.0426      0.23  Q    V    |         |         |         |
  3+40       0.0443      0.24  Q     V   |         |         |         |
  3+45       0.0460      0.25  Q     V   |         |         |         |
  3+50       0.0478      0.26  |Q    V   |         |         |         |
  3+55       0.0496      0.27  |Q    V   |         |         |         |
  4+ 0       0.0515      0.27  |Q     V  |         |         |         |
  4+ 5       0.0534      0.28  |Q     V  |         |         |         |
  4+10       0.0555      0.30  |Q     V  |         |         |         |
  4+15       0.0576      0.31  |Q     V  |         |         |         |
  4+20       0.0599      0.34  |Q      V |         |         |         |
  4+25       0.0627      0.41  |Q      V |         |         |         |
  4+30       0.0662      0.50  |Q       V|         |         |         |
  4+35       0.0701      0.57  | Q      V|         |         |         |
  4+40       0.0750      0.72  | Q       V         |         |         |
  4+45       0.0811      0.88  |  Q      |V        |         |         |
  4+50       0.0880      1.00  |  Q      | V       |         |         |
  4+55       0.0955      1.09  |   Q     |  V      |         |         |
  5+ 0       0.1040      1.24  |   Q     |   V     |         |         |
  5+ 5       0.1151      1.61  |     Q   |    V    |         |         |
  5+10       0.1311      2.32  |        Q|     V   |         |         |
  5+15       0.1519      3.02  |         | Q       V         |         |
  5+20       0.1766      3.59  |         |  Q      |   V     |         |
  5+25       0.2057      4.23  |         |    Q    |       V |         |
  5+30       0.2419      5.25  |         |         |Q        |  V      |
```

```
   5+35       0.2716      4.31  |         |       Q  |          |       V   |
   5+40       0.2819      1.49  |     Q   |          |          |        V  |
   5+45       0.2870      0.74  |  Q      |          |          |         V |
   5+50       0.2898      0.42  |Q        |          |          |         V |
   5+55       0.2914      0.23  Q         |          |          |         V |
   6+ 0       0.2919      0.06  Q         |          |          |         V |
   6+ 5       0.2921      0.03  Q         |          |          |         V |
   6+10       0.2922      0.01  Q         |          |          |         V |
   6+15       0.2922      0.01  Q         |          |          |         V |
   6+20       0.2922      0.00  Q         |          |          |         V |
   6+25       0.2922      0.00  Q         |          |          |          V
-------------------------------------------------------------------------
```

```
       U n i t   H y d r o g r a p h   A n a l y s i s

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              Study date  02/28/22 File: ex102410.out

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------------------------------------------------------------------------------

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       8.33(Ac.)  =      0.013 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       8.33(Ac.)  =      0.013 Sq. Mi.
Length along longest watercourse =     911.00(Ft.)
Length along longest watercourse measured to centroid =     456.00(Ft.)
Length along longest watercourse =      0.173 Mi.
Length along longest watercourse measured to centroid =      0.086 Mi.
Difference in elevation =      16.00(Ft.)
Slope along watercourse =     92.7333 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time =    0.062 Hr.
Lag time =     3.69 Min.
25% of lag time =     0.92 Min.
40% of lag time =     1.48 Min.
Unit time =     5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            1.80                 14.99

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            4.50                 37.48

STORM EVENT (YEAR) =   10.00
Area Averaged 2-Year Rainfall =    1.800(In)
Area Averaged 100-Year Rainfall =    4.500(In)

Point rain (area averaged) =    2.911(In)
Areal adjustment factor =  100.00 %
Adjusted average point rain =    2.911(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     8.330           69.00          0.000
 Total Area Entered =      8.33(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-2     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
69.0  69.0      0.373     0.000        0.373       1.000      0.373
                                                 Sum (F) =   0.373
Area averaged mean soil loss (F) (In/Hr) =  0.373
Minimum soil loss rate ((In/Hr)) =  0.186
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.900
------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
    (hrs)                          Graph %           (CFS)
------------------------------------------------------------------------
```

1	0.083	135.344	29.460		2.473
2	0.167	270.688	47.995		4.029
3	0.250	406.032	12.120		1.017
4	0.333	541.376	5.371		0.451
5	0.417	676.720	2.918		0.245
6	0.500	812.064	2.136		0.179
			Sum = 100.000	Sum=	8.395

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.023	(0.661)	0.021	0.002
2	0.17	0.07	0.023	(0.658)	0.021	0.002
3	0.25	0.07	0.023	(0.656)	0.021	0.002
4	0.33	0.10	0.035	(0.653)	0.031	0.003
5	0.42	0.10	0.035	(0.651)	0.031	0.003
6	0.50	0.10	0.035	(0.648)	0.031	0.003
7	0.58	0.10	0.035	(0.646)	0.031	0.003
8	0.67	0.10	0.035	(0.643)	0.031	0.003
9	0.75	0.10	0.035	(0.641)	0.031	0.003
10	0.83	0.13	0.047	(0.638)	0.042	0.005
11	0.92	0.13	0.047	(0.636)	0.042	0.005
12	1.00	0.13	0.047	(0.633)	0.042	0.005
13	1.08	0.10	0.035	(0.631)	0.031	0.003
14	1.17	0.10	0.035	(0.628)	0.031	0.003
15	1.25	0.10	0.035	(0.626)	0.031	0.003
16	1.33	0.10	0.035	(0.623)	0.031	0.003
17	1.42	0.10	0.035	(0.621)	0.031	0.003
18	1.50	0.10	0.035	(0.618)	0.031	0.003
19	1.58	0.10	0.035	(0.616)	0.031	0.003
20	1.67	0.10	0.035	(0.613)	0.031	0.003
21	1.75	0.10	0.035	(0.611)	0.031	0.003
22	1.83	0.13	0.047	(0.608)	0.042	0.005
23	1.92	0.13	0.047	(0.606)	0.042	0.005
24	2.00	0.13	0.047	(0.603)	0.042	0.005
25	2.08	0.13	0.047	(0.601)	0.042	0.005
26	2.17	0.13	0.047	(0.598)	0.042	0.005
27	2.25	0.13	0.047	(0.596)	0.042	0.005
28	2.33	0.13	0.047	(0.594)	0.042	0.005
29	2.42	0.13	0.047	(0.591)	0.042	0.005
30	2.50	0.13	0.047	(0.589)	0.042	0.005
31	2.58	0.17	0.058	(0.586)	0.052	0.006
32	2.67	0.17	0.058	(0.584)	0.052	0.006
33	2.75	0.17	0.058	(0.582)	0.052	0.006
34	2.83	0.17	0.058	(0.579)	0.052	0.006
35	2.92	0.17	0.058	(0.577)	0.052	0.006
36	3.00	0.17	0.058	(0.574)	0.052	0.006
37	3.08	0.17	0.058	(0.572)	0.052	0.006
38	3.17	0.17	0.058	(0.570)	0.052	0.006
39	3.25	0.17	0.058	(0.567)	0.052	0.006
40	3.33	0.17	0.058	(0.565)	0.052	0.006
41	3.42	0.17	0.058	(0.563)	0.052	0.006
42	3.50	0.17	0.058	(0.560)	0.052	0.006
43	3.58	0.17	0.058	(0.558)	0.052	0.006
44	3.67	0.17	0.058	(0.556)	0.052	0.006
45	3.75	0.17	0.058	(0.553)	0.052	0.006
46	3.83	0.20	0.070	(0.551)	0.063	0.007
47	3.92	0.20	0.070	(0.549)	0.063	0.007
48	4.00	0.20	0.070	(0.546)	0.063	0.007
49	4.08	0.20	0.070	(0.544)	0.063	0.007
50	4.17	0.20	0.070	(0.542)	0.063	0.007
51	4.25	0.20	0.070	(0.539)	0.063	0.007
52	4.33	0.23	0.082	(0.537)	0.073	0.008
53	4.42	0.23	0.082	(0.535)	0.073	0.008
54	4.50	0.23	0.082	(0.532)	0.073	0.008
55	4.58	0.23	0.082	(0.530)	0.073	0.008
56	4.67	0.23	0.082	(0.528)	0.073	0.008
57	4.75	0.23	0.082	(0.526)	0.073	0.008
58	4.83	0.27	0.093	(0.523)	0.084	0.009
59	4.92	0.27	0.093	(0.521)	0.084	0.009
60	5.00	0.27	0.093	(0.519)	0.084	0.009
61	5.08	0.20	0.070	(0.516)	0.063	0.007
62	5.17	0.20	0.070	(0.514)	0.063	0.007
63	5.25	0.20	0.070	(0.512)	0.063	0.007
64	5.33	0.23	0.082	(0.510)	0.073	0.008
65	5.42	0.23	0.082	(0.508)	0.073	0.008
66	5.50	0.23	0.082	(0.505)	0.073	0.008
67	5.58	0.27	0.093	(0.503)	0.084	0.009
68	5.67	0.27	0.093	(0.501)	0.084	0.009
69	5.75	0.27	0.093	(0.499)	0.084	0.009
70	5.83	0.27	0.093	(0.496)	0.084	0.009
71	5.92	0.27	0.093	(0.494)	0.084	0.009
72	6.00	0.27	0.093	(0.492)	0.084	0.009

73	6.08	0.30	0.105	(0.490)	0.094	0.010
74	6.17	0.30	0.105	(0.488)	0.094	0.010
75	6.25	0.30	0.105	(0.486)	0.094	0.010
76	6.33	0.30	0.105	(0.483)	0.094	0.010
77	6.42	0.30	0.105	(0.481)	0.094	0.010
78	6.50	0.30	0.105	(0.479)	0.094	0.010
79	6.58	0.33	0.116	(0.477)	0.105	0.012
80	6.67	0.33	0.116	(0.475)	0.105	0.012
81	6.75	0.33	0.116	(0.473)	0.105	0.012
82	6.83	0.33	0.116	(0.470)	0.105	0.012
83	6.92	0.33	0.116	(0.468)	0.105	0.012
84	7.00	0.33	0.116	(0.466)	0.105	0.012
85	7.08	0.33	0.116	(0.464)	0.105	0.012
86	7.17	0.33	0.116	(0.462)	0.105	0.012
87	7.25	0.33	0.116	(0.460)	0.105	0.012
88	7.33	0.37	0.128	(0.458)	0.115	0.013
89	7.42	0.37	0.128	(0.456)	0.115	0.013
90	7.50	0.37	0.128	(0.454)	0.115	0.013
91	7.58	0.40	0.140	(0.452)	0.126	0.014
92	7.67	0.40	0.140	(0.449)	0.126	0.014
93	7.75	0.40	0.140	(0.447)	0.126	0.014
94	7.83	0.43	0.151	(0.445)	0.136	0.015
95	7.92	0.43	0.151	(0.443)	0.136	0.015
96	8.00	0.43	0.151	(0.441)	0.136	0.015
97	8.08	0.50	0.175	(0.439)	0.157	0.017
98	8.17	0.50	0.175	(0.437)	0.157	0.017
99	8.25	0.50	0.175	(0.435)	0.157	0.017
100	8.33	0.50	0.175	(0.433)	0.157	0.017
101	8.42	0.50	0.175	(0.431)	0.157	0.017
102	8.50	0.50	0.175	(0.429)	0.157	0.017
103	8.58	0.53	0.186	(0.427)	0.168	0.019
104	8.67	0.53	0.186	(0.425)	0.168	0.019
105	8.75	0.53	0.186	(0.423)	0.168	0.019
106	8.83	0.57	0.198	(0.421)	0.178	0.020
107	8.92	0.57	0.198	(0.419)	0.178	0.020
108	9.00	0.57	0.198	(0.417)	0.178	0.020
109	9.08	0.63	0.221	(0.415)	0.199	0.022
110	9.17	0.63	0.221	(0.413)	0.199	0.022
111	9.25	0.63	0.221	(0.411)	0.199	0.022
112	9.33	0.67	0.233	(0.409)	0.210	0.023
113	9.42	0.67	0.233	(0.407)	0.210	0.023
114	9.50	0.67	0.233	(0.405)	0.210	0.023
115	9.58	0.70	0.245	(0.403)	0.220	0.024
116	9.67	0.70	0.245	(0.401)	0.220	0.024
117	9.75	0.70	0.245	(0.399)	0.220	0.024
118	9.83	0.73	0.256	(0.398)	0.231	0.026
119	9.92	0.73	0.256	(0.396)	0.231	0.026
120	10.00	0.73	0.256	(0.394)	0.231	0.026
121	10.08	0.50	0.175	(0.392)	0.157	0.017
122	10.17	0.50	0.175	(0.390)	0.157	0.017
123	10.25	0.50	0.175	(0.388)	0.157	0.017
124	10.33	0.50	0.175	(0.386)	0.157	0.017
125	10.42	0.50	0.175	(0.384)	0.157	0.017
126	10.50	0.50	0.175	(0.382)	0.157	0.017
127	10.58	0.67	0.233	(0.380)	0.210	0.023
128	10.67	0.67	0.233	(0.379)	0.210	0.023
129	10.75	0.67	0.233	(0.377)	0.210	0.023
130	10.83	0.67	0.233	(0.375)	0.210	0.023
131	10.92	0.67	0.233	(0.373)	0.210	0.023
132	11.00	0.67	0.233	(0.371)	0.210	0.023
133	11.08	0.63	0.221	(0.369)	0.199	0.022
134	11.17	0.63	0.221	(0.368)	0.199	0.022
135	11.25	0.63	0.221	(0.366)	0.199	0.022
136	11.33	0.63	0.221	(0.364)	0.199	0.022
137	11.42	0.63	0.221	(0.362)	0.199	0.022
138	11.50	0.63	0.221	(0.360)	0.199	0.022
139	11.58	0.57	0.198	(0.359)	0.178	0.020
140	11.67	0.57	0.198	(0.357)	0.178	0.020
141	11.75	0.57	0.198	(0.355)	0.178	0.020
142	11.83	0.60	0.210	(0.353)	0.189	0.021
143	11.92	0.60	0.210	(0.352)	0.189	0.021
144	12.00	0.60	0.210	(0.350)	0.189	0.021
145	12.08	0.83	0.291	(0.348)	0.262	0.029
146	12.17	0.83	0.291	(0.346)	0.262	0.029
147	12.25	0.83	0.291	(0.345)	0.262	0.029
148	12.33	0.87	0.303	(0.343)	0.272	0.030
149	12.42	0.87	0.303	(0.341)	0.272	0.030
150	12.50	0.87	0.303	(0.339)	0.272	0.030
151	12.58	0.93	0.326	(0.338)	0.293	0.033
152	12.67	0.93	0.326	(0.336)	0.293	0.033
153	12.75	0.93	0.326	(0.334)	0.293	0.033
154	12.83	0.97	0.338	(0.333)	0.304	0.034
155	12.92	0.97	0.338	(0.331)	0.304	0.034
156	13.00	0.97	0.338	(0.329)	0.304	0.034
157	13.08	1.13	0.396	0.328	(0.356)	0.068
158	13.17	1.13	0.396	0.326	(0.356)	0.070
159	13.25	1.13	0.396	0.324	(0.356)	0.072

160	13.33	1.13	0.396	0.323	(0.356)	0.073
161	13.42	1.13	0.396	0.321	(0.356)	0.075
162	13.50	1.13	0.396	0.319	(0.356)	0.077
163	13.58	0.77	0.268	(0.318)	0.241	0.027
164	13.67	0.77	0.268	(0.316)	0.241	0.027
165	13.75	0.77	0.268	(0.314)	0.241	0.027
166	13.83	0.77	0.268	(0.313)	0.241	0.027
167	13.92	0.77	0.268	(0.311)	0.241	0.027
168	14.00	0.77	0.268	(0.310)	0.241	0.027
169	14.08	0.90	0.314	(0.308)	0.283	0.031
170	14.17	0.90	0.314	(0.307)	0.283	0.031
171	14.25	0.90	0.314	(0.305)	0.283	0.031
172	14.33	0.87	0.303	(0.303)	0.272	0.030
173	14.42	0.87	0.303	(0.302)	0.272	0.030
174	14.50	0.87	0.303	(0.300)	0.272	0.030
175	14.58	0.87	0.303	(0.299)	0.272	0.030
176	14.67	0.87	0.303	(0.297)	0.272	0.030
177	14.75	0.87	0.303	(0.296)	0.272	0.030
178	14.83	0.83	0.291	(0.294)	0.262	0.029
179	14.92	0.83	0.291	(0.293)	0.262	0.029
180	15.00	0.83	0.291	(0.291)	0.262	0.029
181	15.08	0.80	0.279	(0.290)	0.251	0.028
182	15.17	0.80	0.279	(0.288)	0.251	0.028
183	15.25	0.80	0.279	(0.287)	0.251	0.028
184	15.33	0.77	0.268	(0.285)	0.241	0.027
185	15.42	0.77	0.268	(0.284)	0.241	0.027
186	15.50	0.77	0.268	(0.282)	0.241	0.027
187	15.58	0.63	0.221	(0.281)	0.199	0.022
188	15.67	0.63	0.221	(0.279)	0.199	0.022
189	15.75	0.63	0.221	(0.278)	0.199	0.022
190	15.83	0.63	0.221	(0.277)	0.199	0.022
191	15.92	0.63	0.221	(0.275)	0.199	0.022
192	16.00	0.63	0.221	(0.274)	0.199	0.022
193	16.08	0.13	0.047	(0.272)	0.042	0.005
194	16.17	0.13	0.047	(0.271)	0.042	0.005
195	16.25	0.13	0.047	(0.270)	0.042	0.005
196	16.33	0.13	0.047	(0.268)	0.042	0.005
197	16.42	0.13	0.047	(0.267)	0.042	0.005
198	16.50	0.13	0.047	(0.265)	0.042	0.005
199	16.58	0.10	0.035	(0.264)	0.031	0.003
200	16.67	0.10	0.035	(0.263)	0.031	0.003
201	16.75	0.10	0.035	(0.261)	0.031	0.003
202	16.83	0.10	0.035	(0.260)	0.031	0.003
203	16.92	0.10	0.035	(0.259)	0.031	0.003
204	17.00	0.10	0.035	(0.258)	0.031	0.003
205	17.08	0.17	0.058	(0.256)	0.052	0.006
206	17.17	0.17	0.058	(0.255)	0.052	0.006
207	17.25	0.17	0.058	(0.254)	0.052	0.006
208	17.33	0.17	0.058	(0.252)	0.052	0.006
209	17.42	0.17	0.058	(0.251)	0.052	0.006
210	17.50	0.17	0.058	(0.250)	0.052	0.006
211	17.58	0.17	0.058	(0.249)	0.052	0.006
212	17.67	0.17	0.058	(0.247)	0.052	0.006
213	17.75	0.17	0.058	(0.246)	0.052	0.006
214	17.83	0.13	0.047	(0.245)	0.042	0.005
215	17.92	0.13	0.047	(0.244)	0.042	0.005
216	18.00	0.13	0.047	(0.242)	0.042	0.005
217	18.08	0.13	0.047	(0.241)	0.042	0.005
218	18.17	0.13	0.047	(0.240)	0.042	0.005
219	18.25	0.13	0.047	(0.239)	0.042	0.005
220	18.33	0.13	0.047	(0.238)	0.042	0.005
221	18.42	0.13	0.047	(0.237)	0.042	0.005
222	18.50	0.13	0.047	(0.235)	0.042	0.005
223	18.58	0.10	0.035	(0.234)	0.031	0.003
224	18.67	0.10	0.035	(0.233)	0.031	0.003
225	18.75	0.10	0.035	(0.232)	0.031	0.003
226	18.83	0.07	0.023	(0.231)	0.021	0.002
227	18.92	0.07	0.023	(0.230)	0.021	0.002
228	19.00	0.07	0.023	(0.229)	0.021	0.002
229	19.08	0.10	0.035	(0.228)	0.031	0.003
230	19.17	0.10	0.035	(0.227)	0.031	0.003
231	19.25	0.10	0.035	(0.226)	0.031	0.003
232	19.33	0.13	0.047	(0.225)	0.042	0.005
233	19.42	0.13	0.047	(0.223)	0.042	0.005
234	19.50	0.13	0.047	(0.222)	0.042	0.005
235	19.58	0.10	0.035	(0.221)	0.031	0.003
236	19.67	0.10	0.035	(0.220)	0.031	0.003
237	19.75	0.10	0.035	(0.219)	0.031	0.003
238	19.83	0.07	0.023	(0.218)	0.021	0.002
239	19.92	0.07	0.023	(0.217)	0.021	0.002
240	20.00	0.07	0.023	(0.216)	0.021	0.002
241	20.08	0.10	0.035	(0.216)	0.031	0.003
242	20.17	0.10	0.035	(0.215)	0.031	0.003
243	20.25	0.10	0.035	(0.214)	0.031	0.003
244	20.33	0.10	0.035	(0.213)	0.031	0.003
245	20.42	0.10	0.035	(0.212)	0.031	0.003
246	20.50	0.10	0.035	(0.211)	0.031	0.003

247	20.58	0.10	0.035	(	0.210)	0.031	0.003
248	20.67	0.10	0.035	(	0.209)	0.031	0.003
249	20.75	0.10	0.035	(	0.208)	0.031	0.003
250	20.83	0.07	0.023	(	0.207)	0.021	0.002
251	20.92	0.07	0.023	(	0.207)	0.021	0.002
252	21.00	0.07	0.023	(	0.206)	0.021	0.002
253	21.08	0.10	0.035	(	0.205)	0.031	0.003
254	21.17	0.10	0.035	(	0.204)	0.031	0.003
255	21.25	0.10	0.035	(	0.203)	0.031	0.003
256	21.33	0.07	0.023	(	0.203)	0.021	0.002
257	21.42	0.07	0.023	(	0.202)	0.021	0.002
258	21.50	0.07	0.023	(	0.201)	0.021	0.002
259	21.58	0.10	0.035	(	0.200)	0.031	0.003
260	21.67	0.10	0.035	(	0.200)	0.031	0.003
261	21.75	0.10	0.035	(	0.199)	0.031	0.003
262	21.83	0.07	0.023	(	0.198)	0.021	0.002
263	21.92	0.07	0.023	(	0.198)	0.021	0.002
264	22.00	0.07	0.023	(	0.197)	0.021	0.002
265	22.08	0.10	0.035	(	0.196)	0.031	0.003
266	22.17	0.10	0.035	(	0.196)	0.031	0.003
267	22.25	0.10	0.035	(	0.195)	0.031	0.003
268	22.33	0.07	0.023	(	0.194)	0.021	0.002
269	22.42	0.07	0.023	(	0.194)	0.021	0.002
270	22.50	0.07	0.023	(	0.193)	0.021	0.002
271	22.58	0.07	0.023	(	0.193)	0.021	0.002
272	22.67	0.07	0.023	(	0.192)	0.021	0.002
273	22.75	0.07	0.023	(	0.192)	0.021	0.002
274	22.83	0.07	0.023	(	0.191)	0.021	0.002
275	22.92	0.07	0.023	(	0.191)	0.021	0.002
276	23.00	0.07	0.023	(	0.190)	0.021	0.002
277	23.08	0.07	0.023	(	0.190)	0.021	0.002
278	23.17	0.07	0.023	(	0.189)	0.021	0.002
279	23.25	0.07	0.023	(	0.189)	0.021	0.002
280	23.33	0.07	0.023	(	0.188)	0.021	0.002
281	23.42	0.07	0.023	(	0.188)	0.021	0.002
282	23.50	0.07	0.023	(	0.188)	0.021	0.002
283	23.58	0.07	0.023	(	0.187)	0.021	0.002
284	23.67	0.07	0.023	(	0.187)	0.021	0.002
285	23.75	0.07	0.023	(	0.187)	0.021	0.002
286	23.83	0.07	0.023	(	0.187)	0.021	0.002
287	23.92	0.07	0.023	(	0.187)	0.021	0.002
288	24.00	0.07	0.023	(	0.186)	0.021	0.002

(Loss Rate Not Used)

Sum = 100.0 Sum = 3.7

Flood volume = Effective rainfall 0.31(In)
times area 8.3(Ac.)/[(In)/(Ft.)] = 0.2(Ac.Ft)
Total soil loss = 2.60(In)
Total soil loss = 1.807(Ac.Ft)
Total rainfall = 2.91(In)
Flood volume = 9298.3 Cubic Feet
Total soil loss = 78716.8 Cubic Feet

Peak flow rate of this hydrograph = 0.628(CFS)

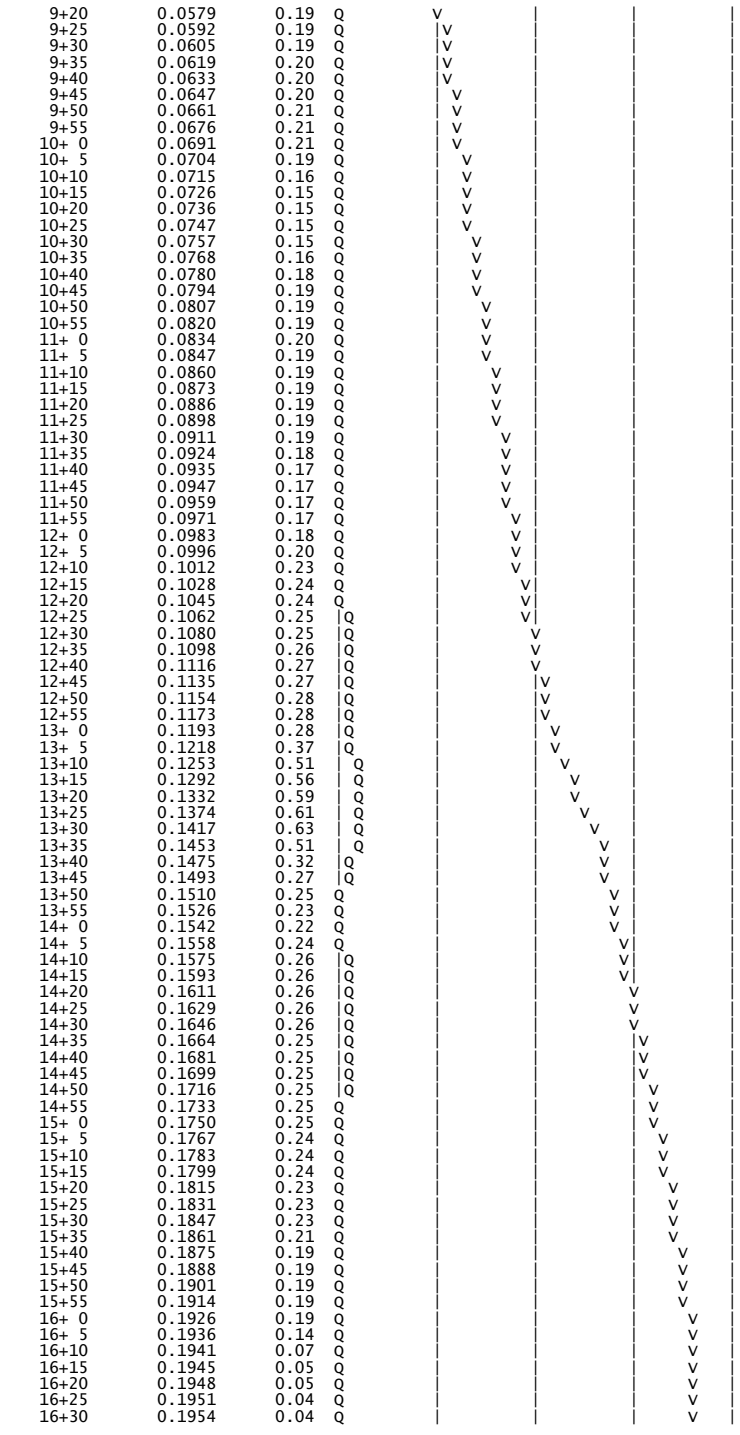
++

24 - 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 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0000	0.01	Q	|	|	|	|
0+10	0.0001	0.02	Q	|	|	|	|
0+15	0.0003	0.02	Q	|	|	|	|
0+20	0.0004	0.02	Q	|	|	|	|
0+25	0.0006	0.03	Q	|	|	|	|
0+30	0.0008	0.03	Q	|	|	|	|
0+35	0.0010	0.03	Q	|	|	|	|
0+40	0.0012	0.03	Q	|	|	|	|
0+45	0.0014	0.03	Q	|	|	|	|
0+50	0.0016	0.03	Q	|	|	|	|
0+55	0.0019	0.04	Q	|	|	|	|
1+ 0	0.0021	0.04	Q	|	|	|	|
1+ 5	0.0024	0.04	Q	|	|	|	|
1+10	0.0026	0.03	Q	|	|	|	|
1+15	0.0028	0.03	Q	|	|	|	|
1+20	0.0030	0.03	Q	|	|	|	|
1+25	0.0032	0.03	Q	|	|	|	|
1+30	0.0034	0.03	Q	|	|	|	|
1+35	0.0036	0.03	Q	|	|	|	|
1+40	0.0038	0.03	Q	|	|	|	|
1+45	0.0040	0.03	Q	|	|	|	|
1+50	0.0042	0.03	Q	|	|	|	|
1+55	0.0045	0.04	Q	|	|	|	|
2+ 0	0.0048	0.04	Q	|	|	|	|

```
2+ 5       0.0050      0.04  Q          |          |          |          |
2+10       0.0053      0.04  Q          |          |          |          |
2+15       0.0056      0.04  QV         |          |          |          |
2+20       0.0058      0.04  QV         |          |          |          |
2+25       0.0061      0.04  QV         |          |          |          |
2+30       0.0064      0.04  QV         |          |          |          |
2+35       0.0067      0.04  QV         |          |          |          |
2+40       0.0070      0.05  QV         |          |          |          |
2+45       0.0073      0.05  QV         |          |          |          |
2+50       0.0076      0.05  QV         |          |          |          |
2+55       0.0080      0.05  QV         |          |          |          |
3+ 0       0.0083      0.05  QV         |          |          |          |
3+ 5       0.0087      0.05  QV         |          |          |          |
3+10       0.0090      0.05  QV         |          |          |          |
3+15       0.0093      0.05  QV         |          |          |          |
3+20       0.0097      0.05  QV         |          |          |          |
3+25       0.0100      0.05  QV         |          |          |          |
3+30       0.0103      0.05  QV         |          |          |          |
3+35       0.0107      0.05  QV         |          |          |          |
3+40       0.0110      0.05  Q V        |          |          |          |
3+45       0.0113      0.05  Q V        |          |          |          |
3+50       0.0117      0.05  Q V        |          |          |          |
3+55       0.0121      0.06  Q V        |          |          |          |
4+ 0       0.0125      0.06  Q V        |          |          |          |
4+ 5       0.0129      0.06  Q V        |          |          |          |
4+10       0.0133      0.06  Q V        |          |          |          |
4+15       0.0137      0.06  Q V        |          |          |          |
4+20       0.0141      0.06  Q V        |          |          |          |
4+25       0.0146      0.07  Q V        |          |          |          |
4+30       0.0150      0.07  Q V        |          |          |          |
4+35       0.0155      0.07  Q V        |          |          |          |
4+40       0.0160      0.07  Q V        |          |          |          |
4+45       0.0165      0.07  Q  V       |          |          |          |
4+50       0.0169      0.07  Q  V       |          |          |          |
4+55       0.0175      0.08  Q  V       |          |          |          |
5+ 0       0.0180      0.08  Q  V       |          |          |          |
5+ 5       0.0185      0.07  Q  V       |          |          |          |
5+10       0.0189      0.06  Q  V       |          |          |          |
5+15       0.0193      0.06  Q  V       |          |          |          |
5+20       0.0198      0.06  Q  V       |          |          |          |
5+25       0.0202      0.07  Q  V       |          |          |          |
5+30       0.0207      0.07  Q  V       |          |          |          |
5+35       0.0212      0.07  Q  V       |          |          |          |
5+40       0.0217      0.08  Q   V      |          |          |          |
5+45       0.0222      0.08  Q   V      |          |          |          |
5+50       0.0228      0.08  Q   V      |          |          |          |
5+55       0.0233      0.08  Q   V      |          |          |          |
6+ 0       0.0239      0.08  Q   V      |          |          |          |
6+ 5       0.0244      0.08  Q   V      |          |          |          |
6+10       0.0250      0.09  Q   V      |          |          |          |
6+15       0.0256      0.09  Q   V      |          |          |          |
6+20       0.0262      0.09  Q   V      |          |          |          |
6+25       0.0268      0.09  Q    V     |          |          |          |
6+30       0.0274      0.09  Q    V     |          |          |          |
6+35       0.0280      0.09  Q    V     |          |          |          |
6+40       0.0287      0.10  Q    V     |          |          |          |
6+45       0.0294      0.10  Q    V     |          |          |          |
6+50       0.0300      0.10  Q    V     |          |          |          |
6+55       0.0307      0.10  Q    V     |          |          |          |
7+ 0       0.0314      0.10  Q    V     |          |          |          |
7+ 5       0.0321      0.10  Q     V    |          |          |          |
7+10       0.0327      0.10  Q     V    |          |          |          |
7+15       0.0334      0.10  Q     V    |          |          |          |
7+20       0.0341      0.10  Q     V    |          |          |          |
7+25       0.0348      0.11  Q     V    |          |          |          |
7+30       0.0356      0.11  Q     V    |          |          |          |
7+35       0.0363      0.11  Q     V    |          |          |          |
7+40       0.0371      0.11  Q     V    |          |          |          |
7+45       0.0379      0.12  Q      V   |          |          |          |
7+50       0.0387      0.12  Q      V   |          |          |          |
7+55       0.0396      0.12  Q      V   |          |          |          |
8+ 0       0.0405      0.13  Q      V   |          |          |          |
8+ 5       0.0414      0.13  Q      V   |          |          |          |
8+10       0.0423      0.14  Q      V   |          |          |          |
8+15       0.0433      0.14  Q       V  |          |          |          |
8+20       0.0443      0.15  Q       V  |          |          |          |
8+25       0.0454      0.15  Q       V  |          |          |          |
8+30       0.0464      0.15  Q       V  |          |          |          |
8+35       0.0474      0.15  Q       V  |          |          |          |
8+40       0.0485      0.15  Q        V |          |          |          |
8+45       0.0495      0.16  Q        V |          |          |          |
8+50       0.0506      0.16  Q        V |          |          |          |
8+55       0.0518      0.16  Q        V |          |          |          |
9+ 0       0.0529      0.17  Q        V |          |          |          |
9+ 5       0.0541      0.17  Q         V          |          |          |
9+10       0.0553      0.18  Q         V          |          |          |
9+15       0.0566      0.18  Q         V          |          |          |
```



9+20	0.0579	0.19	Q	
9+25	0.0592	0.19	Q	
9+30	0.0605	0.19	Q	
9+35	0.0619	0.20	Q	
9+40	0.0633	0.20	Q	
9+45	0.0647	0.20	Q	
9+50	0.0661	0.21	Q	
9+55	0.0676	0.21	Q	
10+ 0	0.0691	0.21	Q	
10+ 5	0.0704	0.19	Q	
10+10	0.0715	0.16	Q	
10+15	0.0726	0.15	Q	
10+20	0.0736	0.15	Q	
10+25	0.0747	0.15	Q	
10+30	0.0757	0.15	Q	
10+35	0.0768	0.16	Q	
10+40	0.0780	0.18	Q	
10+45	0.0794	0.19	Q	
10+50	0.0807	0.19	Q	
10+55	0.0820	0.19	Q	
11+ 0	0.0834	0.20	Q	
11+ 5	0.0847	0.19	Q	
11+10	0.0860	0.19	Q	
11+15	0.0873	0.19	Q	
11+20	0.0886	0.19	Q	
11+25	0.0898	0.19	Q	
11+30	0.0911	0.19	Q	
11+35	0.0924	0.18	Q	
11+40	0.0935	0.17	Q	
11+45	0.0947	0.17	Q	
11+50	0.0959	0.17	Q	
11+55	0.0971	0.17	Q	
12+ 0	0.0983	0.18	Q	
12+ 5	0.0996	0.20	Q	
12+10	0.1012	0.23	Q	
12+15	0.1028	0.24	Q	
12+20	0.1045	0.24	Q	
12+25	0.1062	0.25	Q	
12+30	0.1080	0.25	Q	
12+35	0.1098	0.26	Q	
12+40	0.1116	0.27	Q	
12+45	0.1135	0.27	Q	
12+50	0.1154	0.28	Q	
12+55	0.1173	0.28	Q	
13+ 0	0.1193	0.28	Q	
13+ 5	0.1218	0.37	Q	
13+10	0.1253	0.51	Q	
13+15	0.1292	0.56	Q	
13+20	0.1332	0.59	Q	
13+25	0.1374	0.61	Q	
13+30	0.1417	0.63	Q	
13+35	0.1453	0.51	Q	
13+40	0.1475	0.32	Q	
13+45	0.1493	0.27	Q	
13+50	0.1510	0.25	Q	
13+55	0.1526	0.23	Q	
14+ 0	0.1542	0.22	Q	
14+ 5	0.1558	0.24	Q	
14+10	0.1575	0.26	Q	
14+15	0.1593	0.26	Q	
14+20	0.1611	0.26	Q	
14+25	0.1629	0.26	Q	
14+30	0.1646	0.26	Q	
14+35	0.1664	0.25	Q	
14+40	0.1681	0.25	Q	
14+45	0.1699	0.25	Q	
14+50	0.1716	0.25	Q	
14+55	0.1733	0.25	Q	
15+ 0	0.1750	0.25	Q	
15+ 5	0.1767	0.24	Q	
15+10	0.1783	0.24	Q	
15+15	0.1799	0.24	Q	
15+20	0.1815	0.23	Q	
15+25	0.1831	0.23	Q	
15+30	0.1847	0.23	Q	
15+35	0.1861	0.21	Q	
15+40	0.1875	0.19	Q	
15+45	0.1888	0.19	Q	
15+50	0.1901	0.19	Q	
15+55	0.1914	0.19	Q	
16+ 0	0.1926	0.19	Q	
16+ 5	0.1936	0.14	Q	
16+10	0.1941	0.07	Q	
16+15	0.1945	0.05	Q	
16+20	0.1948	0.05	Q	
16+25	0.1951	0.04	Q	
16+30	0.1954	0.04	Q	

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16+35       0.1956      0.04  Q         |          |          |     V    |
16+40       0.1958      0.03  Q         |          |          |     V    |
16+45       0.1961      0.03  Q         |          |          |     V    |
16+50       0.1963      0.03  Q         |          |          |     V    |
16+55       0.1965      0.03  Q         |          |          |     V    |
17+ 0       0.1967      0.03  Q         |          |          |     V    |
17+ 5       0.1969      0.04  Q         |          |          |     V    |
17+10       0.1972      0.04  Q         |          |          |     V    |
17+15       0.1975      0.05  Q         |          |          |      V   |
17+20       0.1979      0.05  Q         |          |          |      V   |
17+25       0.1982      0.05  Q         |          |          |      V   |
17+30       0.1985      0.05  Q         |          |          |      V   |
17+35       0.1989      0.05  Q         |          |          |      V   |
17+40       0.1992      0.05  Q         |          |          |      V   |
17+45       0.1996      0.05  Q         |          |          |      V   |
17+50       0.1999      0.05  Q         |          |          |      V   |
17+55       0.2002      0.04  Q         |          |          |      V   |
18+ 0       0.2004      0.04  Q         |          |          |      V   |
18+ 5       0.2007      0.04  Q         |          |          |      V   |
18+10       0.2010      0.04  Q         |          |          |      V   |
18+15       0.2012      0.04  Q         |          |          |      V   |
18+20       0.2015      0.04  Q         |          |          |      V   |
18+25       0.2018      0.04  Q         |          |          |      V   |
18+30       0.2020      0.04  Q         |          |          |      V   |
18+35       0.2023      0.04  Q         |          |          |      V   |
18+40       0.2025      0.03  Q         |          |          |      V   |
18+45       0.2027      0.03  Q         |          |          |      V   |
18+50       0.2029      0.03  Q         |          |          |       V  |
18+55       0.2031      0.02  Q         |          |          |       V  |
19+ 0       0.2032      0.02  Q         |          |          |       V  |
19+ 5       0.2034      0.02  Q         |          |          |       V  |
19+10       0.2036      0.03  Q         |          |          |       V  |
19+15       0.2037      0.03  Q         |          |          |       V  |
19+20       0.2040      0.03  Q         |          |          |       V  |
19+25       0.2042      0.04  Q         |          |          |       V  |
19+30       0.2045      0.04  Q         |          |          |       V  |
19+35       0.2047      0.04  Q         |          |          |       V  |
19+40       0.2049      0.03  Q         |          |          |       V  |
19+45       0.2051      0.03  Q         |          |          |       V  |
19+50       0.2053      0.03  Q         |          |          |       V  |
19+55       0.2055      0.02  Q         |          |          |       V  |
20+ 0       0.2056      0.02  Q         |          |          |       V  |
20+ 5       0.2058      0.02  Q         |          |          |       V  |
20+10       0.2060      0.03  Q         |          |          |       V  |
20+15       0.2062      0.03  Q         |          |          |       V  |
20+20       0.2064      0.03  Q         |          |          |       V  |
20+25       0.2066      0.03  Q         |          |          |       V  |
20+30       0.2068      0.03  Q         |          |          |       V  |
20+35       0.2070      0.03  Q         |          |          |       V  |
20+40       0.2072      0.03  Q         |          |          |       V  |
20+45       0.2074      0.03  Q         |          |          |       V  |
20+50       0.2076      0.03  Q         |          |          |       V  |
20+55       0.2077      0.02  Q         |          |          |       V  |
21+ 0       0.2079      0.02  Q         |          |          |       V  |
21+ 5       0.2080      0.02  Q         |          |          |       V  |
21+10       0.2082      0.03  Q         |          |          |        V |
21+15       0.2084      0.03  Q         |          |          |        V |
21+20       0.2086      0.03  Q         |          |          |        V |
21+25       0.2087      0.02  Q         |          |          |        V |
21+30       0.2089      0.02  Q         |          |          |        V |
21+35       0.2090      0.02  Q         |          |          |        V |
21+40       0.2092      0.03  Q         |          |          |        V |
21+45       0.2094      0.03  Q         |          |          |        V |
21+50       0.2096      0.03  Q         |          |          |        V |
21+55       0.2097      0.02  Q         |          |          |        V |
22+ 0       0.2099      0.02  Q         |          |          |        V |
22+ 5       0.2100      0.02  Q         |          |          |        V |
22+10       0.2102      0.03  Q         |          |          |        V |
22+15       0.2104      0.03  Q         |          |          |        V |
22+20       0.2106      0.03  Q         |          |          |        V |
22+25       0.2107      0.02  Q         |          |          |        V |
22+30       0.2109      0.02  Q         |          |          |        V |
22+35       0.2110      0.02  Q         |          |          |        V |
22+40       0.2112      0.02  Q         |          |          |        V |
22+45       0.2113      0.02  Q         |          |          |        V |
22+50       0.2114      0.02  Q         |          |          |        V |
22+55       0.2116      0.02  Q         |          |          |        V |
23+ 0       0.2117      0.02  Q         |          |          |        V |
23+ 5       0.2118      0.02  Q         |          |          |        V |
23+10       0.2120      0.02  Q         |          |          |        V |
23+15       0.2121      0.02  Q         |          |          |        V |
23+20       0.2122      0.02  Q         |          |          |        V |
23+25       0.2124      0.02  Q         |          |          |        V |
23+30       0.2125      0.02  Q         |          |          |        V |
23+35       0.2126      0.02  Q         |          |          |        V |
23+40       0.2128      0.02  Q         |          |          |        V |
23+45       0.2129      0.02  Q         |          |          |        V |
```

23+50	0.2130	0.02	Q	|	|	|	V|
23+55	0.2132	0.02	Q	|	|	|	V|
24+ 0	0.2133	0.02	Q	|	|	|	V|
24+ 5	0.2134	0.01	Q	|	|	|	V|
24+10	0.2134	0.00	Q	|	|	|	V|
24+15	0.2135	0.00	Q	|	|	|	V|
24+20	0.2135	0.00	Q	|	|	|	V|
24+25	0.2135	0.00	Q	|	|	|	V|

```
       U n i t   H y d r o g r a p h   A n a l y s i s

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              Study date  02/28/22 File: ex1001100.out

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------------------------------------------------------------------------------

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       8.33(Ac.)  =      0.013 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       8.33(Ac.)  =      0.013 Sq. Mi.
Length along longest watercourse =     911.00(Ft.)
Length along longest watercourse measured to centroid =     456.00(Ft.)
Length along longest watercourse =      0.173 Mi.
Length along longest watercourse measured to centroid =      0.086 Mi.
Difference in elevation =      16.00(Ft.)
Slope along watercourse =     92.7333 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time =    0.062 Hr.
Lag time =     3.69 Min.
25% of lag time =     0.92 Min.
40% of lag time =     1.48 Min.
Unit time =     5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            0.50                 4.17

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            1.20                10.00

STORM EVENT (YEAR) =  100.00
Area Averaged 2-Year Rainfall =    0.500(In)
Area Averaged 100-Year Rainfall =    1.200(In)

Point rain (area averaged) =    1.200(In)
Areal adjustment factor =   99.99 %
Adjusted average point rain =    1.200(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     8.330           69.00          0.000
 Total Area Entered =      8.33(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-2     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
69.0  69.0      0.373     0.000        0.373       1.000      0.373
                                                 Sum (F) =   0.373
Area averaged mean soil loss (F) (In/Hr) =  0.373
Minimum soil loss rate ((In/Hr)) =  0.186
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.900
------------------------------------------------------------------------
Slope of intensity-duration curve for a 1 hour storm =0.5000
------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
------------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
```

```
        (hrs)                          Graph %            (CFS)
      ------------------------------------------------------------------------
         1   0.083        135.344         29.460              2.473
         2   0.167        270.688         47.995              4.029
         3   0.250        406.032         12.120              1.017
         4   0.333        541.376          5.371              0.451
         5   0.417        676.720          2.918              0.245
         6   0.500        812.064          2.136              0.179
                                  Sum = 100.000   Sum=        8.395
------------------------------------------------------------------------
```

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

```
 Unit Time   Pattern   Storm Rain     Loss rate(In./Hr)     Effective
      (Hr.)  Percent   (In/Hr)         Max   |   Low         (In/Hr)
  1   0.08     4.20      0.605          0.373    (  0.544)        0.232
  2   0.17     4.30      0.619          0.373    (  0.557)        0.246
  3   0.25     5.00      0.720          0.373    (  0.648)        0.347
  4   0.33     5.00      0.720          0.373    (  0.648)        0.347
  5   0.42     5.80      0.835          0.373    (  0.752)        0.462
  6   0.50     6.50      0.936          0.373    (  0.842)        0.563
  7   0.58     7.40      1.066          0.373    (  0.959)        0.693
  8   0.67     8.60      1.238          0.373    (  1.114)        0.866
  9   0.75    12.30      1.771          0.373    (  1.594)        1.398
 10   0.83    29.10      4.190          0.373    (  3.771)        3.817
 11   0.92     6.80      0.979          0.373    (  0.881)        0.606
 12   1.00     5.00      0.720          0.373    (  0.648)        0.347
             (Loss Rate Not Used)
    Sum =     100.0                                 Sum =     9.9
      Flood volume = Effective rainfall      0.83(In)
       times area       8.3(Ac.)/[(In)/(Ft.)] =       0.6(Ac.Ft)
      Total soil loss =      0.37(In)
      Total soil loss =     0.259(Ac.Ft)
      Total rainfall =      1.20(In)
      Flood volume =       25010.1 Cubic Feet
      Total soil loss =       11272.7 Cubic Feet
      ------------------------------------------------------------------------
       Peak flow rate of this hydrograph =     18.974(CFS)
      ------------------------------------------------------------------------
      ++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                          1 - 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   5   Minute intervals ((CFS))

      ------------------------------------------------------------------------
 Time(h+m) Volume Ac.Ft   Q(CFS)  0        5.0      10.0      15.0      20.0
 ------------------------------------------------------------------------
   0+ 5       0.0040      0.57  VQ        |         |         |         |
   0+10       0.0146      1.54  |V Q       |         |         |         |
   0+15       0.0290      2.09  | V Q      |         |         |         |
   0+20       0.0470      2.61  |  V Q     |         |         |         |
   0+25       0.0681      3.06  |   V Q    |         |         |         |
   0+30       0.0947      3.87  |     VQ   |         |         |         |
   0+35       0.1274      4.74  |       VQ |         |         |         |
   0+40       0.1678      5.86  |         Q|         |         |         |
   0+45       0.2234      8.08  |          |    VQ   |         |         |
   0+50       0.3371     16.50  |          |         |  V      | Q       |
   0+55       0.4677     18.97  |          |         |         | V    Q  |
   1+ 0       0.5239      8.16  |          |     Q   |         |     V   |
   1+ 5       0.5531      4.24  |        Q |         |         |       V |
   1+10       0.5656      1.81  |  Q       |         |         |         V|
   1+15       0.5724      0.99  |Q         |         |         |         V|
   1+20       0.5737      0.19  Q          |         |         |         V|
   1+25       0.5742      0.06  Q          |         |         |          V
------------------------------------------------------------------------
```

```
       U n i t   H y d r o g r a p h   A n a l y s i s

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              Study date  02/28/22 File: ex1003100.out

++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
------------------------------------------------------------------------------

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       8.33(Ac.)  =      0.013 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       8.33(Ac.)  =      0.013 Sq. Mi.
Length along longest watercourse =     911.00(Ft.)
Length along longest watercourse measured to centroid =     456.00(Ft.)
Length along longest watercourse =      0.173 Mi.
Length along longest watercourse measured to centroid =      0.086 Mi.
Difference in elevation =      16.00(Ft.)
Slope along watercourse =     92.7333 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time =    0.062 Hr.
Lag time =     3.69 Min.
25% of lag time =     0.92 Min.
40% of lag time =     1.48 Min.
Unit time =     5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            0.80                 6.66

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            1.90                15.83

STORM EVENT (YEAR) =  100.00
Area Averaged 2-Year Rainfall =    0.800(In)
Area Averaged 100-Year Rainfall =    1.900(In)

Point rain (area averaged) =    1.900(In)
Areal adjustment factor =  100.00 %
Adjusted average point rain =    1.900(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     8.330           69.00          0.000
 Total Area Entered =      8.33(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-2     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
69.0  69.0      0.373     0.000        0.373       1.000      0.373
                                                 Sum (F) =   0.373
Area averaged mean soil loss (F) (In/Hr) =  0.373
Minimum soil loss rate ((In/Hr)) =  0.186
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.900
------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
------------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
    (hrs)                          Graph %           (CFS)
------------------------------------------------------------------------
```

1	0.083	135.344	29.460	2.473
2	0.167	270.688	47.995	4.029
3	0.250	406.032	12.120	1.017
4	0.333	541.376	5.371	0.451
5	0.417	676.720	2.918	0.245
6	0.500	812.064	2.136	0.179
			Sum = 100.000 Sum=	8.395

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	1.30	0.296	(0.373)	0.267	0.030
2	0.17	1.30	0.296	(0.373)	0.267	0.030
3	0.25	1.10	0.251	(0.373)	0.226	0.025
4	0.33	1.50	0.342	(0.373)	0.308	0.034
5	0.42	1.50	0.342	(0.373)	0.308	0.034
6	0.50	1.80	0.410	(0.373)	0.369	0.041
7	0.58	1.50	0.342	(0.373)	0.308	0.034
8	0.67	1.80	0.410	(0.373)	0.369	0.041
9	0.75	1.80	0.410	(0.373)	0.369	0.041
10	0.83	1.50	0.342	(0.373)	0.308	0.034
11	0.92	1.60	0.365	(0.373)	0.328	0.036
12	1.00	1.80	0.410	(0.373)	0.369	0.041
13	1.08	2.20	0.502	0.373	(0.451)	0.129
14	1.17	2.20	0.502	0.373	(0.451)	0.129
15	1.25	2.20	0.502	0.373	(0.451)	0.129
16	1.33	2.00	0.456	0.373	(0.410)	0.083
17	1.42	2.60	0.593	0.373	(0.534)	0.220
18	1.50	2.70	0.616	0.373	(0.554)	0.243
19	1.58	2.40	0.547	0.373	(0.492)	0.174
20	1.67	2.70	0.616	0.373	(0.554)	0.243
21	1.75	3.30	0.752	0.373	(0.677)	0.380
22	1.83	3.10	0.707	0.373	(0.636)	0.334
23	1.92	2.90	0.661	0.373	(0.595)	0.288
24	2.00	3.00	0.684	0.373	(0.616)	0.311
25	2.08	3.10	0.707	0.373	(0.636)	0.334
26	2.17	4.20	0.958	0.373	(0.862)	0.585
27	2.25	5.00	1.140	0.373	(1.026)	0.767
28	2.33	3.50	0.798	0.373	(0.718)	0.425
29	2.42	6.80	1.550	0.373	(1.395)	1.178
30	2.50	7.30	1.664	0.373	(1.498)	1.292
31	2.58	8.20	1.870	0.373	(1.683)	1.497
32	2.67	5.90	1.345	0.373	(1.211)	0.972
33	2.75	2.00	0.456	0.373	(0.410)	0.083
34	2.83	1.80	0.410	(0.373)	0.369	0.041
35	2.92	1.80	0.410	(0.373)	0.369	0.041
36	3.00	0.60	0.137	(0.373)	0.123	0.014
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	10.3

Flood volume = Effective rainfall 0.86(In)
times area 8.3(Ac.)/[(In)/(Ft.)] = 0.6(Ac.Ft)
Total soil loss = 1.04(In)
Total soil loss = 0.722(Ac.Ft)
Total rainfall = 1.90(In)
Flood volume = 25985.7 Cubic Feet
Total soil loss = 31464.2 Cubic Feet

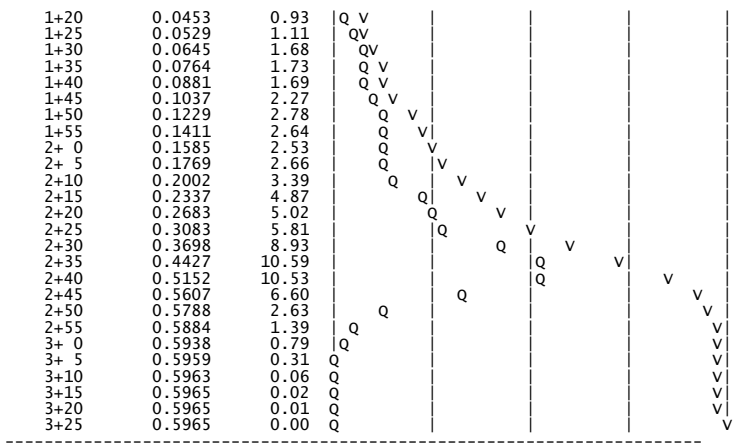
Peak flow rate of this hydrograph = 10.594(CFS)

++

3 - 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 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	5.0	10.0	15.0	20.0
0+ 5	0.0005	0.07	Q				
0+10	0.0018	0.19	Q				
0+15	0.0033	0.21	Q				
0+20	0.0049	0.23	Q				
0+25	0.0067	0.27	Q				
0+30	0.0088	0.30	Q				
0+35	0.0109	0.31	Q				
0+40	0.0131	0.31	Q				
0+45	0.0154	0.33	QV				
0+50	0.0176	0.32	QV				
0+55	0.0197	0.30	QV				
1+ 0	0.0219	0.32	QV				
1+ 5	0.0257	0.55	|Q				
1+10	0.0320	0.91	|QV				
1+15	0.0389	1.00	| Q				


1+20 0.0453 0.93
1+25 0.0529 1.11
1+30 0.0645 1.68
1+35 0.0764 1.73
1+40 0.0881 1.69
1+45 0.1037 2.27
1+50 0.1229 2.78
1+55 0.1411 2.64
2+ 0 0.1585 2.53
2+ 5 0.1769 2.66
2+10 0.2002 3.39
2+15 0.2337 4.87
2+20 0.2683 5.02
2+25 0.3083 5.81
2+30 0.3698 8.93
2+35 0.4427 10.59
2+40 0.5152 10.53
2+45 0.5607 6.60
2+50 0.5788 2.63
2+55 0.5884 1.39
3+ 0 0.5938 0.79
3+ 5 0.5959 0.31
3+10 0.5963 0.06
3+15 0.5965 0.02
3+20 0.5965 0.01
3+25 0.5965 0.00

```
       U n i t   H y d r o g r a p h   A n a l y s i s

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              Study date  02/28/22 File: ex1006100.out

++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
------------------------------------------------------------------------------

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------------
------------------------------------------------------------------------------
Drainage Area =       8.33(Ac.)  =      0.013 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       8.33(Ac.)  =      0.013 Sq. Mi.
Length along longest watercourse =     911.00(Ft.)
Length along longest watercourse measured to centroid =     456.00(Ft.)
Length along longest watercourse =      0.173 Mi.
Length along longest watercourse measured to centroid =      0.086 Mi.
Difference in elevation =      16.00(Ft.)
Slope along watercourse =     92.7333 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time =    0.062 Hr.
Lag time =     3.69 Min.
25% of lag time =     0.92 Min.
40% of lag time =     1.48 Min.
Unit time =     5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            1.20                 10.00

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            2.50                 20.82

STORM EVENT (YEAR) =  100.00
Area Averaged 2-Year Rainfall =    1.200(In)
Area Averaged 100-Year Rainfall =    2.500(In)

Point rain (area averaged) =    2.500(In)
Areal adjustment factor =  100.00 %
Adjusted average point rain =    2.500(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     8.330           69.00          0.000
 Total Area Entered =      8.33(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-2     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
69.0  69.0      0.373     0.000        0.373       1.000      0.373
                                                 Sum (F) =   0.373
Area averaged mean soil loss (F) (In/Hr) =  0.373
Minimum soil loss rate ((In/Hr)) =  0.186
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.900
------------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
------------------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
    (hrs)                          Graph %           (CFS)
------------------------------------------------------------------------------
```

1	0.083	135.344	29.460		2.473
2	0.167	270.688	47.995		4.029
3	0.250	406.032	12.120		1.017
4	0.333	541.376	5.371		0.451
5	0.417	676.720	2.918		0.245
6	0.500	812.064	2.136		0.179
			Sum = 100.000	Sum=	8.395

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.150	(0.373)	0.135	0.015
2	0.17	0.60	0.180	(0.373)	0.162	0.018
3	0.25	0.60	0.180	(0.373)	0.162	0.018
4	0.33	0.60	0.180	(0.373)	0.162	0.018
5	0.42	0.60	0.180	(0.373)	0.162	0.018
6	0.50	0.70	0.210	(0.373)	0.189	0.021
7	0.58	0.70	0.210	(0.373)	0.189	0.021
8	0.67	0.70	0.210	(0.373)	0.189	0.021
9	0.75	0.70	0.210	(0.373)	0.189	0.021
10	0.83	0.70	0.210	(0.373)	0.189	0.021
11	0.92	0.70	0.210	(0.373)	0.189	0.021
12	1.00	0.80	0.240	(0.373)	0.216	0.024
13	1.08	0.80	0.240	(0.373)	0.216	0.024
14	1.17	0.80	0.240	(0.373)	0.216	0.024
15	1.25	0.80	0.240	(0.373)	0.216	0.024
16	1.33	0.80	0.240	(0.373)	0.216	0.024
17	1.42	0.80	0.240	(0.373)	0.216	0.024
18	1.50	0.80	0.240	(0.373)	0.216	0.024
19	1.58	0.80	0.240	(0.373)	0.216	0.024
20	1.67	0.80	0.240	(0.373)	0.216	0.024
21	1.75	0.80	0.240	(0.373)	0.216	0.024
22	1.83	0.80	0.240	(0.373)	0.216	0.024
23	1.92	0.80	0.240	(0.373)	0.216	0.024
24	2.00	0.90	0.270	(0.373)	0.243	0.027
25	2.08	0.80	0.240	(0.373)	0.216	0.024
26	2.17	0.90	0.270	(0.373)	0.243	0.027
27	2.25	0.90	0.270	(0.373)	0.243	0.027
28	2.33	0.90	0.270	(0.373)	0.243	0.027
29	2.42	0.90	0.270	(0.373)	0.243	0.027
30	2.50	0.90	0.270	(0.373)	0.243	0.027
31	2.58	0.90	0.270	(0.373)	0.243	0.027
32	2.67	0.90	0.270	(0.373)	0.243	0.027
33	2.75	1.00	0.300	(0.373)	0.270	0.030
34	2.83	1.00	0.300	(0.373)	0.270	0.030
35	2.92	1.00	0.300	(0.373)	0.270	0.030
36	3.00	1.00	0.300	(0.373)	0.270	0.030
37	3.08	1.00	0.300	(0.373)	0.270	0.030
38	3.17	1.10	0.330	(0.373)	0.297	0.033
39	3.25	1.10	0.330	(0.373)	0.297	0.033
40	3.33	1.10	0.330	(0.373)	0.297	0.033
41	3.42	1.20	0.360	(0.373)	0.324	0.036
42	3.50	1.30	0.390	(0.373)	0.351	0.039
43	3.58	1.40	0.420	0.373	(0.378)	0.047
44	3.67	1.40	0.420	0.373	(0.378)	0.047
45	3.75	1.50	0.450	0.373	(0.405)	0.077
46	3.83	1.50	0.450	0.373	(0.405)	0.077
47	3.92	1.60	0.480	0.373	(0.432)	0.107
48	4.00	1.60	0.480	0.373	(0.432)	0.107
49	4.08	1.70	0.510	0.373	(0.459)	0.137
50	4.17	1.80	0.540	0.373	(0.486)	0.167
51	4.25	1.90	0.570	0.373	(0.513)	0.197
52	4.33	2.00	0.600	0.373	(0.540)	0.227
53	4.42	2.10	0.630	0.373	(0.567)	0.257
54	4.50	2.10	0.630	0.373	(0.567)	0.257
55	4.58	2.20	0.660	0.373	(0.594)	0.287
56	4.67	2.30	0.690	0.373	(0.621)	0.317
57	4.75	2.40	0.720	0.373	(0.648)	0.347
58	4.83	2.40	0.720	0.373	(0.648)	0.347
59	4.92	2.50	0.750	0.373	(0.675)	0.377
60	5.00	2.60	0.780	0.373	(0.702)	0.407
61	5.08	3.10	0.930	0.373	(0.837)	0.557
62	5.17	3.60	1.080	0.373	(0.972)	0.707
63	5.25	3.90	1.170	0.373	(1.053)	0.797
64	5.33	4.20	1.260	0.373	(1.134)	0.887
65	5.42	4.70	1.410	0.373	(1.269)	1.037
66	5.50	5.60	1.680	0.373	(1.512)	1.307
67	5.58	1.90	0.570	0.373	(0.513)	0.197
68	5.67	0.90	0.270	(0.373)	0.243	0.027
69	5.75	0.60	0.180	(0.373)	0.162	0.018
70	5.83	0.50	0.150	(0.373)	0.135	0.015
71	5.92	0.30	0.090	(0.373)	0.081	0.009
72	6.00	0.20	0.060	(0.373)	0.054	0.006

```
            (Loss Rate Not Used)
 Sum =     100.0                                  Sum =    10.4
    Flood volume = Effective rainfall      0.87(In)
     times area       8.3(Ac.)/[(In)/(Ft.)] =       0.6(Ac.Ft)
    Total soil loss =      1.63(In)
    Total soil loss =     1.133(Ac.Ft)
    Total rainfall =      2.50(In)
    Flood volume =       26255.2 Cubic Feet
    Total soil loss =      49337.4 Cubic Feet
    ---------------------------------------------------------------------
     Peak flow rate of this hydrograph =      8.952(CFS)
    ---------------------------------------------------------------------
    +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                          6 - 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   5   Minute intervals ((CFS))

    ---------------------------------------------------------------------
Time(h+m) Volume Ac.Ft   Q(CFS)  0        2.5       5.0       7.5      10.0
-------------------------------------------------------------------------
  0+ 5       0.0003      0.04  Q          |         |         |         |
  0+10       0.0010      0.11  Q          |         |         |         |
  0+15       0.0019      0.13  Q          |         |         |         |
  0+20       0.0029      0.14  Q          |         |         |         |
  0+25       0.0039      0.15  Q          |         |         |         |
  0+30       0.0050      0.16  Q          |         |         |         |
  0+35       0.0061      0.17  Q          |         |         |         |
  0+40       0.0073      0.17  Q          |         |         |         |
  0+45       0.0086      0.18  Q          |         |         |         |
  0+50       0.0098      0.18  Q          |         |         |         |
  0+55       0.0110      0.18  Q          |         |         |         |
  1+ 0       0.0122      0.18  Q          |         |         |         |
  1+ 5       0.0136      0.20  Q          |         |         |         |
  1+10       0.0150      0.20  Q          |         |         |         |
  1+15       0.0163      0.20  QV         |         |         |         |
  1+20       0.0177      0.20  QV         |         |         |         |
  1+25       0.0191      0.20  QV         |         |         |         |
  1+30       0.0205      0.20  QV         |         |         |         |
  1+35       0.0219      0.20  QV         |         |         |         |
  1+40       0.0233      0.20  QV         |         |         |         |
  1+45       0.0247      0.20  QV         |         |         |         |
  1+50       0.0261      0.20  QV         |         |         |         |
  1+55       0.0274      0.20  QV         |         |         |         |
  2+ 0       0.0289      0.21  QV         |         |         |         |
  2+ 5       0.0304      0.21  Q V        |         |         |         |
  2+10       0.0318      0.21  Q V        |         |         |         |
  2+15       0.0333      0.22  Q V        |         |         |         |
  2+20       0.0349      0.22  Q V        |         |         |         |
  2+25       0.0365      0.23  Q V        |         |         |         |
  2+30       0.0380      0.23  Q V        |         |         |         |
  2+35       0.0396      0.23  Q V        |         |         |         |
  2+40       0.0411      0.23  Q V        |         |         |         |
  2+45       0.0427      0.23  Q V        |         |         |         |
  2+50       0.0444      0.25  Q V        |         |         |         |
  2+55       0.0462      0.25  Q  V       |         |         |         |
  3+ 0       0.0479      0.25  |Q V       |         |         |         |
  3+ 5       0.0496      0.25  |Q V       |         |         |         |
  3+10       0.0514      0.26  |Q V       |         |         |         |
  3+15       0.0533      0.27  |Q V       |         |         |         |
  3+20       0.0552      0.27  |Q V       |         |         |         |
  3+25       0.0571      0.28  |Q V       |         |         |         |
  3+30       0.0592      0.30  |Q V       |         |         |         |
  3+35       0.0615      0.34  |Q  V      |         |         |         |
  3+40       0.0641      0.38  |Q  V      |         |         |         |
  3+45       0.0673      0.46  |Q  V      |         |         |         |
  3+50       0.0714      0.59  | Q V      |         |         |         |
  3+55       0.0762      0.69  | Q  V     |         |         |         |
  4+ 0       0.0819      0.83  |  Q V     |         |         |         |
  4+ 5       0.0884      0.94  |  Q V     |         |         |         |
  4+10       0.0963      1.16  |   Q V    |         |         |         |
  4+15       0.1059      1.39  |    Q V   |         |         |         |
  4+20       0.1172      1.63  |     QV   |         |         |         |
  4+25       0.1301      1.88  |      QV  |         |         |         |
  4+30       0.1443      2.06  |       QV |         |         |         |
  4+35       0.1594      2.19  |       Q V|         |         |         |
  4+40       0.1760      2.41  |        Q|V         |         |         |
  4+45       0.1942      2.65  |         Q V        |         |         |
  4+50       0.2137      2.82  |         |Q  V      |         |         |
  4+55       0.2340      2.95  |         |Q   V     |         |         |
  5+ 0       0.2558      3.17  |         | Q   V    |         |         |
  5+ 5       0.2813      3.70  |         |   Q   V  |         |         |
  5+10       0.3138      4.73  |         |       Q V|         |         |
  5+15       0.3533      5.73  |         |          | QV      |         |
  5+20       0.3984      6.55  |         |          |    Q    |         |
  5+25       0.4499      7.48  |         |          |      Q  |         |
  5+30       0.5116      8.95  |         |          |         |  V Q    |
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    5+35       0.5635      7.54  |          |          |          Q      V   |
    5+40       0.5843      3.02  |          |  Q       |          |       V  |
    5+45       0.5936      1.36  |     Q    |          |          |        V |
    5+50       0.5987      0.73  |  Q       |          |          |        V |
    5+55       0.6014      0.40  |Q         |          |          |        V |
    6+ 0       0.6022      0.12  Q          |          |          |        V |
    6+ 5       0.6025      0.05  Q          |          |          |        V |
    6+10       0.6027      0.02  Q          |          |          |        V |
    6+15       0.6027      0.01  Q          |          |          |        V |
    6+20       0.6027      0.00  Q          |          |          |        V |
    6+25       0.6027      0.00  Q          |          |          |         V
-------------------------------------------------------------------------------
```

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       U n i t   H y d r o g r a p h   A n a l y s i s

       Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2008, Version 8.1
              Study date  02/28/22 File: ex10024100.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       8.33(Ac.)  =      0.013 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       8.33(Ac.)  =      0.013 Sq. Mi.
Length along longest watercourse =     911.00(Ft.)
Length along longest watercourse measured to centroid =     456.00(Ft.)
Length along longest watercourse =      0.173 Mi.
Length along longest watercourse measured to centroid =      0.086 Mi.
Difference in elevation =      16.00(Ft.)
Slope along watercourse =     92.7333 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time =    0.062 Hr.
Lag time =     3.69 Min.
25% of lag time =     0.92 Min.
40% of lag time =     1.48 Min.
Unit time =     5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            1.80                 14.99

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            4.50                 37.48

STORM EVENT (YEAR) =  100.00
Area Averaged 2-Year Rainfall =    1.800(In)
Area Averaged 100-Year Rainfall =    4.500(In)

Point rain (area averaged) =    4.500(In)
Areal adjustment factor =  100.00 %
Adjusted average point rain =    4.500(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     8.330           69.00          0.000
 Total Area Entered =      8.33(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-2     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
69.0  69.0      0.373     0.000        0.373       1.000      0.373
                                                 Sum (F) =   0.373
Area averaged mean soil loss (F) (In/Hr) =  0.373
Minimum soil loss rate ((In/Hr)) =  0.186
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.900
------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
    (hrs)                          Graph %           (CFS)
------------------------------------------------------------------------
```

1	0.083	135.344	29.460		2.473
2	0.167	270.688	47.995		4.029
3	0.250	406.032	12.120		1.017
4	0.333	541.376	5.371		0.451
5	0.417	676.720	2.918		0.245
6	0.500	812.064	2.136		0.179
			Sum = 100.000	Sum=	8.395

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.036	(0.661)	0.032	0.004
2	0.17	0.07	0.036	(0.658)	0.032	0.004
3	0.25	0.07	0.036	(0.656)	0.032	0.004
4	0.33	0.10	0.054	(0.653)	0.049	0.005
5	0.42	0.10	0.054	(0.651)	0.049	0.005
6	0.50	0.10	0.054	(0.648)	0.049	0.005
7	0.58	0.10	0.054	(0.646)	0.049	0.005
8	0.67	0.10	0.054	(0.643)	0.049	0.005
9	0.75	0.10	0.054	(0.641)	0.049	0.005
10	0.83	0.13	0.072	(0.638)	0.065	0.007
11	0.92	0.13	0.072	(0.636)	0.065	0.007
12	1.00	0.13	0.072	(0.633)	0.065	0.007
13	1.08	0.10	0.054	(0.631)	0.049	0.005
14	1.17	0.10	0.054	(0.628)	0.049	0.005
15	1.25	0.10	0.054	(0.626)	0.049	0.005
16	1.33	0.10	0.054	(0.623)	0.049	0.005
17	1.42	0.10	0.054	(0.621)	0.049	0.005
18	1.50	0.10	0.054	(0.618)	0.049	0.005
19	1.58	0.10	0.054	(0.616)	0.049	0.005
20	1.67	0.10	0.054	(0.613)	0.049	0.005
21	1.75	0.10	0.054	(0.611)	0.049	0.005
22	1.83	0.13	0.072	(0.608)	0.065	0.007
23	1.92	0.13	0.072	(0.606)	0.065	0.007
24	2.00	0.13	0.072	(0.603)	0.065	0.007
25	2.08	0.13	0.072	(0.601)	0.065	0.007
26	2.17	0.13	0.072	(0.598)	0.065	0.007
27	2.25	0.13	0.072	(0.596)	0.065	0.007
28	2.33	0.13	0.072	(0.594)	0.065	0.007
29	2.42	0.13	0.072	(0.591)	0.065	0.007
30	2.50	0.13	0.072	(0.589)	0.065	0.007
31	2.58	0.17	0.090	(0.586)	0.081	0.009
32	2.67	0.17	0.090	(0.584)	0.081	0.009
33	2.75	0.17	0.090	(0.582)	0.081	0.009
34	2.83	0.17	0.090	(0.579)	0.081	0.009
35	2.92	0.17	0.090	(0.577)	0.081	0.009
36	3.00	0.17	0.090	(0.574)	0.081	0.009
37	3.08	0.17	0.090	(0.572)	0.081	0.009
38	3.17	0.17	0.090	(0.570)	0.081	0.009
39	3.25	0.17	0.090	(0.567)	0.081	0.009
40	3.33	0.17	0.090	(0.565)	0.081	0.009
41	3.42	0.17	0.090	(0.563)	0.081	0.009
42	3.50	0.17	0.090	(0.560)	0.081	0.009
43	3.58	0.17	0.090	(0.558)	0.081	0.009
44	3.67	0.17	0.090	(0.556)	0.081	0.009
45	3.75	0.17	0.090	(0.553)	0.081	0.009
46	3.83	0.20	0.108	(0.551)	0.097	0.011
47	3.92	0.20	0.108	(0.549)	0.097	0.011
48	4.00	0.20	0.108	(0.546)	0.097	0.011
49	4.08	0.20	0.108	(0.544)	0.097	0.011
50	4.17	0.20	0.108	(0.542)	0.097	0.011
51	4.25	0.20	0.108	(0.539)	0.097	0.011
52	4.33	0.23	0.126	(0.537)	0.113	0.013
53	4.42	0.23	0.126	(0.535)	0.113	0.013
54	4.50	0.23	0.126	(0.532)	0.113	0.013
55	4.58	0.23	0.126	(0.530)	0.113	0.013
56	4.67	0.23	0.126	(0.528)	0.113	0.013
57	4.75	0.23	0.126	(0.526)	0.113	0.013
58	4.83	0.27	0.144	(0.523)	0.130	0.014
59	4.92	0.27	0.144	(0.521)	0.130	0.014
60	5.00	0.27	0.144	(0.519)	0.130	0.014
61	5.08	0.20	0.108	(0.516)	0.097	0.011
62	5.17	0.20	0.108	(0.514)	0.097	0.011
63	5.25	0.20	0.108	(0.512)	0.097	0.011
64	5.33	0.23	0.126	(0.510)	0.113	0.013
65	5.42	0.23	0.126	(0.508)	0.113	0.013
66	5.50	0.23	0.126	(0.505)	0.113	0.013
67	5.58	0.27	0.144	(0.503)	0.130	0.014
68	5.67	0.27	0.144	(0.501)	0.130	0.014
69	5.75	0.27	0.144	(0.499)	0.130	0.014
70	5.83	0.27	0.144	(0.496)	0.130	0.014
71	5.92	0.27	0.144	(0.494)	0.130	0.014
72	6.00	0.27	0.144	(0.492)	0.130	0.014

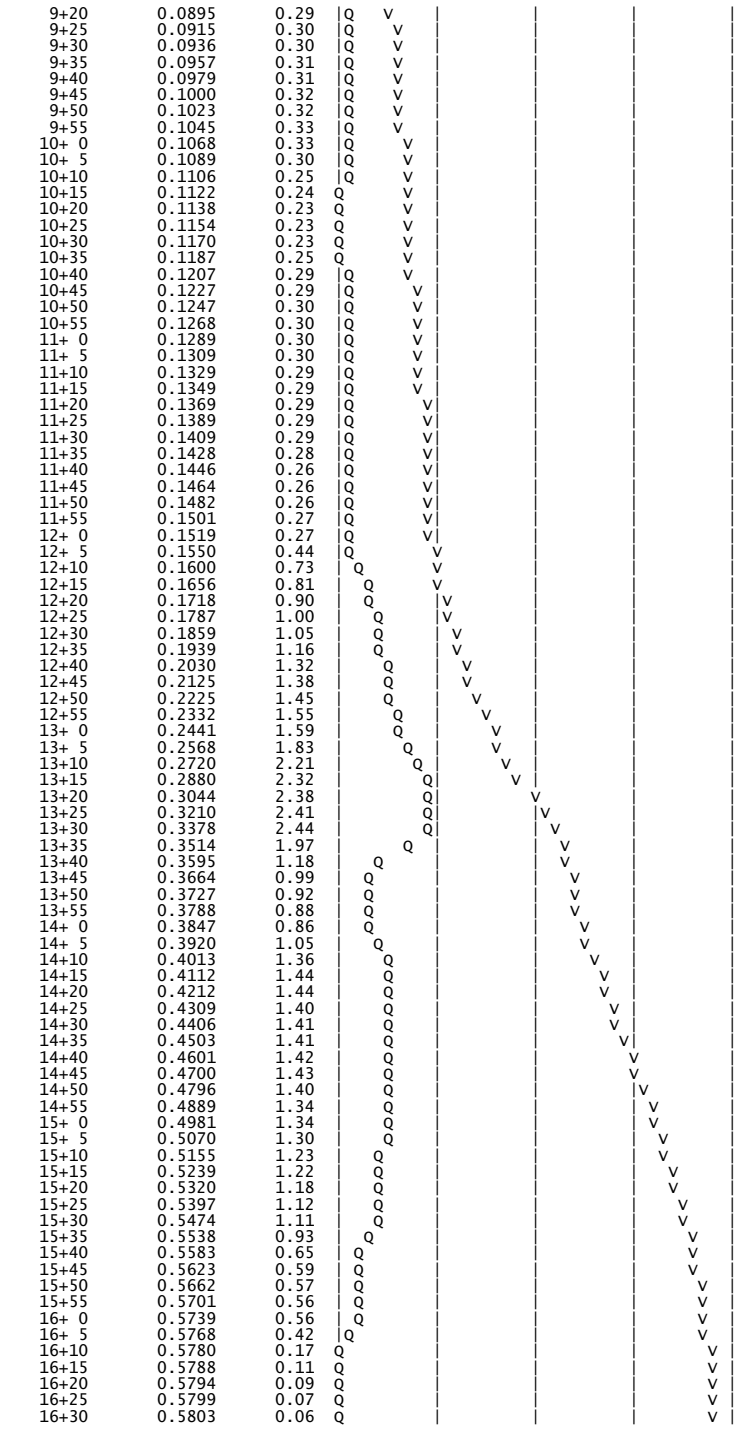
73	6.08	0.30	0.162	(0.490)	0.146	0.016
74	6.17	0.30	0.162	(0.488)	0.146	0.016
75	6.25	0.30	0.162	(0.486)	0.146	0.016
76	6.33	0.30	0.162	(0.483)	0.146	0.016
77	6.42	0.30	0.162	(0.481)	0.146	0.016
78	6.50	0.30	0.162	(0.479)	0.146	0.016
79	6.58	0.33	0.180	(0.477)	0.162	0.018
80	6.67	0.33	0.180	(0.475)	0.162	0.018
81	6.75	0.33	0.180	(0.473)	0.162	0.018
82	6.83	0.33	0.180	(0.470)	0.162	0.018
83	6.92	0.33	0.180	(0.468)	0.162	0.018
84	7.00	0.33	0.180	(0.466)	0.162	0.018
85	7.08	0.33	0.180	(0.464)	0.162	0.018
86	7.17	0.33	0.180	(0.462)	0.162	0.018
87	7.25	0.33	0.180	(0.460)	0.162	0.018
88	7.33	0.37	0.198	(0.458)	0.178	0.020
89	7.42	0.37	0.198	(0.456)	0.178	0.020
90	7.50	0.37	0.198	(0.454)	0.178	0.020
91	7.58	0.40	0.216	(0.452)	0.194	0.022
92	7.67	0.40	0.216	(0.449)	0.194	0.022
93	7.75	0.40	0.216	(0.447)	0.194	0.022
94	7.83	0.43	0.234	(0.445)	0.211	0.023
95	7.92	0.43	0.234	(0.443)	0.211	0.023
96	8.00	0.43	0.234	(0.441)	0.211	0.023
97	8.08	0.50	0.270	(0.439)	0.243	0.027
98	8.17	0.50	0.270	(0.437)	0.243	0.027
99	8.25	0.50	0.270	(0.435)	0.243	0.027
100	8.33	0.50	0.270	(0.433)	0.243	0.027
101	8.42	0.50	0.270	(0.431)	0.243	0.027
102	8.50	0.50	0.270	(0.429)	0.243	0.027
103	8.58	0.53	0.288	(0.427)	0.259	0.029
104	8.67	0.53	0.288	(0.425)	0.259	0.029
105	8.75	0.53	0.288	(0.423)	0.259	0.029
106	8.83	0.57	0.306	(0.421)	0.275	0.031
107	8.92	0.57	0.306	(0.419)	0.275	0.031
108	9.00	0.57	0.306	(0.417)	0.275	0.031
109	9.08	0.63	0.342	(0.415)	0.308	0.034
110	9.17	0.63	0.342	(0.413)	0.308	0.034
111	9.25	0.63	0.342	(0.411)	0.308	0.034
112	9.33	0.67	0.360	(0.409)	0.324	0.036
113	9.42	0.67	0.360	(0.407)	0.324	0.036
114	9.50	0.67	0.360	(0.405)	0.324	0.036
115	9.58	0.70	0.378	(0.403)	0.340	0.038
116	9.67	0.70	0.378	(0.401)	0.340	0.038
117	9.75	0.70	0.378	(0.399)	0.340	0.038
118	9.83	0.73	0.396	(0.398)	0.356	0.040
119	9.92	0.73	0.396	(0.396)	0.356	0.040
120	10.00	0.73	0.396	(0.394)	0.356	0.040
121	10.08	0.50	0.270	(0.392)	0.243	0.027
122	10.17	0.50	0.270	(0.390)	0.243	0.027
123	10.25	0.50	0.270	(0.388)	0.243	0.027
124	10.33	0.50	0.270	(0.386)	0.243	0.027
125	10.42	0.50	0.270	(0.384)	0.243	0.027
126	10.50	0.50	0.270	(0.382)	0.243	0.027
127	10.58	0.67	0.360	(0.380)	0.324	0.036
128	10.67	0.67	0.360	(0.379)	0.324	0.036
129	10.75	0.67	0.360	(0.377)	0.324	0.036
130	10.83	0.67	0.360	(0.375)	0.324	0.036
131	10.92	0.67	0.360	(0.373)	0.324	0.036
132	11.00	0.67	0.360	(0.371)	0.324	0.036
133	11.08	0.63	0.342	(0.369)	0.308	0.034
134	11.17	0.63	0.342	(0.368)	0.308	0.034
135	11.25	0.63	0.342	(0.366)	0.308	0.034
136	11.33	0.63	0.342	(0.364)	0.308	0.034
137	11.42	0.63	0.342	(0.362)	0.308	0.034
138	11.50	0.63	0.342	(0.360)	0.308	0.034
139	11.58	0.57	0.306	(0.359)	0.275	0.031
140	11.67	0.57	0.306	(0.357)	0.275	0.031
141	11.75	0.57	0.306	(0.355)	0.275	0.031
142	11.83	0.60	0.324	(0.353)	0.292	0.032
143	11.92	0.60	0.324	(0.352)	0.292	0.032
144	12.00	0.60	0.324	(0.350)	0.292	0.032
145	12.08	0.83	0.450	0.348	(0.405)	0.102
146	12.17	0.83	0.450	0.346	(0.405)	0.104
147	12.25	0.83	0.450	0.345	(0.405)	0.105
148	12.33	0.87	0.468	0.343	(0.421)	0.125
149	12.42	0.87	0.468	0.341	(0.421)	0.127
150	12.50	0.87	0.468	0.339	(0.421)	0.129
151	12.58	0.93	0.504	0.338	(0.454)	0.166
152	12.67	0.93	0.504	0.336	(0.454)	0.168
153	12.75	0.93	0.504	0.334	(0.454)	0.170
154	12.83	0.97	0.522	0.333	(0.470)	0.189
155	12.92	0.97	0.522	0.331	(0.470)	0.191
156	13.00	0.97	0.522	0.329	(0.470)	0.193
157	13.08	1.13	0.612	0.328	(0.551)	0.284
158	13.17	1.13	0.612	0.326	(0.551)	0.286
159	13.25	1.13	0.612	0.324	(0.551)	0.288

160	13.33	1.13	0.612	0.323	(0.551)	0.289
161	13.42	1.13	0.612	0.321	(0.551)	0.291
162	13.50	1.13	0.612	0.319	(0.551)	0.293
163	13.58	0.77	0.414	0.318	(0.373)	0.096
164	13.67	0.77	0.414	0.316	(0.373)	0.098
165	13.75	0.77	0.414	0.314	(0.373)	0.100
166	13.83	0.77	0.414	0.313	(0.373)	0.101
167	13.92	0.77	0.414	0.311	(0.373)	0.103
168	14.00	0.77	0.414	0.310	(0.373)	0.104
169	14.08	0.90	0.486	0.308	(0.437)	0.178
170	14.17	0.90	0.486	0.307	(0.437)	0.179
171	14.25	0.90	0.486	0.305	(0.437)	0.181
172	14.33	0.87	0.468	0.303	(0.421)	0.165
173	14.42	0.87	0.468	0.302	(0.421)	0.166
174	14.50	0.87	0.468	0.300	(0.421)	0.168
175	14.58	0.87	0.468	0.299	(0.421)	0.169
176	14.67	0.87	0.468	0.297	(0.421)	0.171
177	14.75	0.87	0.468	0.296	(0.421)	0.172
178	14.83	0.83	0.450	0.294	(0.405)	0.156
179	14.92	0.83	0.450	0.293	(0.405)	0.157
180	15.00	0.83	0.450	0.291	(0.405)	0.159
181	15.08	0.80	0.432	0.290	(0.389)	0.142
182	15.17	0.80	0.432	0.288	(0.389)	0.144
183	15.25	0.80	0.432	0.287	(0.389)	0.145
184	15.33	0.77	0.414	0.285	(0.373)	0.129
185	15.42	0.77	0.414	0.284	(0.373)	0.130
186	15.50	0.77	0.414	0.282	(0.373)	0.132
187	15.58	0.63	0.342	0.281	(0.308)	0.061
188	15.67	0.63	0.342	0.279	(0.308)	0.063
189	15.75	0.63	0.342	0.278	(0.308)	0.064
190	15.83	0.63	0.342	0.277	(0.308)	0.065
191	15.92	0.63	0.342	0.275	(0.308)	0.067
192	16.00	0.63	0.342	0.274	(0.308)	0.068
193	16.08	0.13	0.072	(0.272)	0.065	0.007
194	16.17	0.13	0.072	(0.271)	0.065	0.007
195	16.25	0.13	0.072	(0.270)	0.065	0.007
196	16.33	0.13	0.072	(0.268)	0.065	0.007
197	16.42	0.13	0.072	(0.267)	0.065	0.007
198	16.50	0.13	0.072	(0.265)	0.065	0.007
199	16.58	0.10	0.054	(0.264)	0.049	0.005
200	16.67	0.10	0.054	(0.263)	0.049	0.005
201	16.75	0.10	0.054	(0.261)	0.049	0.005
202	16.83	0.10	0.054	(0.260)	0.049	0.005
203	16.92	0.10	0.054	(0.259)	0.049	0.005
204	17.00	0.10	0.054	(0.258)	0.049	0.005
205	17.08	0.17	0.090	(0.256)	0.081	0.009
206	17.17	0.17	0.090	(0.255)	0.081	0.009
207	17.25	0.17	0.090	(0.254)	0.081	0.009
208	17.33	0.17	0.090	(0.252)	0.081	0.009
209	17.42	0.17	0.090	(0.251)	0.081	0.009
210	17.50	0.17	0.090	(0.250)	0.081	0.009
211	17.58	0.17	0.090	(0.249)	0.081	0.009
212	17.67	0.17	0.090	(0.247)	0.081	0.009
213	17.75	0.17	0.090	(0.246)	0.081	0.009
214	17.83	0.13	0.072	(0.245)	0.065	0.007
215	17.92	0.13	0.072	(0.244)	0.065	0.007
216	18.00	0.13	0.072	(0.242)	0.065	0.007
217	18.08	0.13	0.072	(0.241)	0.065	0.007
218	18.17	0.13	0.072	(0.240)	0.065	0.007
219	18.25	0.13	0.072	(0.239)	0.065	0.007
220	18.33	0.13	0.072	(0.238)	0.065	0.007
221	18.42	0.13	0.072	(0.237)	0.065	0.007
222	18.50	0.13	0.072	(0.235)	0.065	0.007
223	18.58	0.10	0.054	(0.234)	0.049	0.005
224	18.67	0.10	0.054	(0.233)	0.049	0.005
225	18.75	0.10	0.054	(0.232)	0.049	0.005
226	18.83	0.07	0.036	(0.231)	0.032	0.004
227	18.92	0.07	0.036	(0.230)	0.032	0.004
228	19.00	0.07	0.036	(0.229)	0.032	0.004
229	19.08	0.10	0.054	(0.228)	0.049	0.005
230	19.17	0.10	0.054	(0.227)	0.049	0.005
231	19.25	0.10	0.054	(0.226)	0.049	0.005
232	19.33	0.13	0.072	(0.225)	0.065	0.007
233	19.42	0.13	0.072	(0.223)	0.065	0.007
234	19.50	0.13	0.072	(0.222)	0.065	0.007
235	19.58	0.10	0.054	(0.221)	0.049	0.005
236	19.67	0.10	0.054	(0.220)	0.049	0.005
237	19.75	0.10	0.054	(0.219)	0.049	0.005
238	19.83	0.07	0.036	(0.218)	0.032	0.004
239	19.92	0.07	0.036	(0.217)	0.032	0.004
240	20.00	0.07	0.036	(0.216)	0.032	0.004
241	20.08	0.10	0.054	(0.216)	0.049	0.005
242	20.17	0.10	0.054	(0.215)	0.049	0.005
243	20.25	0.10	0.054	(0.214)	0.049	0.005
244	20.33	0.10	0.054	(0.213)	0.049	0.005
245	20.42	0.10	0.054	(0.212)	0.049	0.005
246	20.50	0.10	0.054	(0.211)	0.049	0.005

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247  20.58     0.10      0.054       (  0.210)       0.049        0.005
248  20.67     0.10      0.054       (  0.209)       0.049        0.005
249  20.75     0.10      0.054       (  0.208)       0.049        0.005
250  20.83     0.07      0.036       (  0.207)       0.032        0.004
251  20.92     0.07      0.036       (  0.207)       0.032        0.004
252  21.00     0.07      0.036       (  0.206)       0.032        0.004
253  21.08     0.10      0.054       (  0.205)       0.049        0.005
254  21.17     0.10      0.054       (  0.204)       0.049        0.005
255  21.25     0.10      0.054       (  0.203)       0.049        0.005
256  21.33     0.07      0.036       (  0.203)       0.032        0.004
257  21.42     0.07      0.036       (  0.202)       0.032        0.004
258  21.50     0.07      0.036       (  0.201)       0.032        0.004
259  21.58     0.10      0.054       (  0.200)       0.049        0.005
260  21.67     0.10      0.054       (  0.200)       0.049        0.005
261  21.75     0.10      0.054       (  0.199)       0.049        0.005
262  21.83     0.07      0.036       (  0.198)       0.032        0.004
263  21.92     0.07      0.036       (  0.198)       0.032        0.004
264  22.00     0.07      0.036       (  0.197)       0.032        0.004
265  22.08     0.10      0.054       (  0.196)       0.049        0.005
266  22.17     0.10      0.054       (  0.196)       0.049        0.005
267  22.25     0.10      0.054       (  0.195)       0.049        0.005
268  22.33     0.07      0.036       (  0.194)       0.032        0.004
269  22.42     0.07      0.036       (  0.194)       0.032        0.004
270  22.50     0.07      0.036       (  0.193)       0.032        0.004
271  22.58     0.07      0.036       (  0.193)       0.032        0.004
272  22.67     0.07      0.036       (  0.192)       0.032        0.004
273  22.75     0.07      0.036       (  0.192)       0.032        0.004
274  22.83     0.07      0.036       (  0.191)       0.032        0.004
275  22.92     0.07      0.036       (  0.191)       0.032        0.004
276  23.00     0.07      0.036       (  0.190)       0.032        0.004
277  23.08     0.07      0.036       (  0.190)       0.032        0.004
278  23.17     0.07      0.036       (  0.189)       0.032        0.004
279  23.25     0.07      0.036       (  0.189)       0.032        0.004
280  23.33     0.07      0.036       (  0.188)       0.032        0.004
281  23.42     0.07      0.036       (  0.188)       0.032        0.004
282  23.50     0.07      0.036       (  0.188)       0.032        0.004
283  23.58     0.07      0.036       (  0.187)       0.032        0.004
284  23.67     0.07      0.036       (  0.187)       0.032        0.004
285  23.75     0.07      0.036       (  0.187)       0.032        0.004
286  23.83     0.07      0.036       (  0.187)       0.032        0.004
287  23.92     0.07      0.036       (  0.187)       0.032        0.004
288  24.00     0.07      0.036       (  0.186)       0.032        0.004
               (Loss Rate Not Used)
    Sum =     100.0                                  Sum =    10.5
      Flood volume = Effective rainfall      0.88(In)
       times area       8.3(Ac.)/[(In)/(Ft.)] =       0.6(Ac.Ft)
      Total soil loss =      3.62(In)
      Total soil loss =     2.515(Ac.Ft)
      Total rainfall =      4.50(In)
      Flood volume =       26495.2 Cubic Feet
      Total soil loss =      109573.2 Cubic Feet
      ---------------------------------------------------------------------
       Peak flow rate of this hydrograph =      2.443(CFS)
      ---------------------------------------------------------------------
      +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                          24 - 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   5   Minute intervals ((CFS))

      ---------------------------------------------------------------------
 Time(h+m) Volume Ac.Ft   Q(CFS)  0        2.5       5.0       7.5       10.0
 ---------------------------------------------------------------------------
   0+ 5       0.0001      0.01  Q          |         |         |         |
   0+10       0.0002      0.02  Q          |         |         |         |
   0+15       0.0004      0.03  Q          |         |         |         |
   0+20       0.0006      0.03  Q          |         |         |         |
   0+25       0.0009      0.04  Q          |         |         |         |
   0+30       0.0012      0.04  Q          |         |         |         |
   0+35       0.0015      0.04  Q          |         |         |         |
   0+40       0.0018      0.05  Q          |         |         |         |
   0+45       0.0022      0.05  Q          |         |         |         |
   0+50       0.0025      0.05  Q          |         |         |         |
   0+55       0.0029      0.06  Q          |         |         |         |
   1+ 0       0.0033      0.06  Q          |         |         |         |
   1+ 5       0.0037      0.06  Q          |         |         |         |
   1+10       0.0040      0.05  Q          |         |         |         |
   1+15       0.0043      0.05  Q          |         |         |         |
   1+20       0.0046      0.05  Q          |         |         |         |
   1+25       0.0050      0.05  Q          |         |         |         |
   1+30       0.0053      0.05  Q          |         |         |         |
   1+35       0.0056      0.05  Q          |         |         |         |
   1+40       0.0059      0.05  Q          |         |         |         |
   1+45       0.0062      0.05  Q          |         |         |         |
   1+50       0.0066      0.05  Q          |         |         |         |
   1+55       0.0070      0.06  Q          |         |         |         |
   2+ 0       0.0074      0.06  Q          |         |         |         |
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2+ 5	0.0078	0.06	Q	|	|	|	|
2+10	0.0082	0.06	Q	|	|	|	|
2+15	0.0086	0.06	Q	|	|	|	|
2+20	0.0090	0.06	Q	|	|	|	|
2+25	0.0094	0.06	Q	|	|	|	|
2+30	0.0098	0.06	Q	|	|	|	|
2+35	0.0103	0.06	Q	|	|	|	|
2+40	0.0108	0.07	Q	|	|	|	|
2+45	0.0113	0.07	Q	|	|	|	|
2+50	0.0118	0.07	Q	|	|	|	|
2+55	0.0123	0.08	Q	|	|	|	|
3+ 0	0.0129	0.08	Q	|	|	|	|
3+ 5	0.0134	0.08	Q	|	|	|	|
3+10	0.0139	0.08	Q	|	|	|	|
3+15	0.0144	0.08	Q	|	|	|	|
3+20	0.0149	0.08	Q	|	|	|	|
3+25	0.0155	0.08	QV	|	|	|	|
3+30	0.0160	0.08	QV	|	|	|	|
3+35	0.0165	0.08	QV	|	|	|	|
3+40	0.0170	0.08	QV	|	|	|	|
3+45	0.0175	0.08	QV	|	|	|	|
3+50	0.0181	0.08	QV	|	|	|	|
3+55	0.0187	0.09	QV	|	|	|	|
4+ 0	0.0193	0.09	QV	|	|	|	|
4+ 5	0.0199	0.09	QV	|	|	|	|
4+10	0.0205	0.09	QV	|	|	|	|
4+15	0.0212	0.09	QV	|	|	|	|
4+20	0.0218	0.10	QV	|	|	|	|
4+25	0.0225	0.10	QV	|	|	|	|
4+30	0.0233	0.10	QV	|	|	|	|
4+35	0.0240	0.11	QV	|	|	|	|
4+40	0.0247	0.11	QV	|	|	|	|
4+45	0.0254	0.11	QV	|	|	|	|
4+50	0.0262	0.11	QV	|	|	|	|
4+55	0.0270	0.12	QV	|	|	|	|
5+ 0	0.0278	0.12	QV	|	|	|	|
5+ 5	0.0286	0.11	QV	|	|	|	|
5+10	0.0293	0.10	QV	|	|	|	|
5+15	0.0299	0.09	QV	|	|	|	|
5+20	0.0306	0.10	Q V	|	|	|	|
5+25	0.0313	0.10	Q V	|	|	|	|
5+30	0.0320	0.10	Q V	|	|	|	|
5+35	0.0328	0.11	Q V	|	|	|	|
5+40	0.0336	0.12	Q V	|	|	|	|
5+45	0.0344	0.12	Q V	|	|	|	|
5+50	0.0352	0.12	Q V	|	|	|	|
5+55	0.0360	0.12	Q V	|	|	|	|
6+ 0	0.0369	0.12	Q V	|	|	|	|
6+ 5	0.0377	0.13	Q V	|	|	|	|
6+10	0.0387	0.13	Q V	|	|	|	|
6+15	0.0396	0.13	Q V	|	|	|	|
6+20	0.0405	0.14	Q V	|	|	|	|
6+25	0.0414	0.14	Q V	|	|	|	|
6+30	0.0424	0.14	Q V	|	|	|	|
6+35	0.0433	0.14	Q V	|	|	|	|
6+40	0.0444	0.15	Q V	|	|	|	|
6+45	0.0454	0.15	Q V	|	|	|	|
6+50	0.0464	0.15	Q V	|	|	|	|
6+55	0.0475	0.15	Q V	|	|	|	|
7+ 0	0.0485	0.15	Q V	|	|	|	|
7+ 5	0.0496	0.15	Q V	|	|	|	|
7+10	0.0506	0.15	Q V	|	|	|	|
7+15	0.0516	0.15	Q V	|	|	|	|
7+20	0.0527	0.16	Q V	|	|	|	|
7+25	0.0538	0.16	Q V	|	|	|	|
7+30	0.0550	0.16	Q V	|	|	|	|
7+35	0.0561	0.17	Q V	|	|	|	|
7+40	0.0574	0.18	Q V	|	|	|	|
7+45	0.0586	0.18	Q V	|	|	|	|
7+50	0.0599	0.19	Q V	|	|	|	|
7+55	0.0612	0.19	Q V	|	|	|	|
8+ 0	0.0625	0.19	Q V	|	|	|	|
8+ 5	0.0640	0.20	Q V	|	|	|	|
8+10	0.0655	0.22	Q V	|	|	|	|
8+15	0.0670	0.22	Q V	|	|	|	|
8+20	0.0686	0.23	Q V	|	|	|	|
8+25	0.0701	0.23	Q V	|	|	|	|
8+30	0.0717	0.23	Q V	|	|	|	|
8+35	0.0733	0.23	Q V	|	|	|	|
8+40	0.0749	0.24	Q V	|	|	|	|
8+45	0.0766	0.24	Q V	|	|	|	|
8+50	0.0783	0.25	Q V	|	|	|	|
8+55	0.0800	0.25	|Q V	|	|	|	|
9+ 0	0.0818	0.26	|Q V	|	|	|	|
9+ 5	0.0836	0.27	|Q V	|	|	|	|
9+10	0.0855	0.28	|Q V	|	|	|	|
9+15	0.0875	0.28	|Q V	|	|	|	|



9+20	0.0895	0.29	
9+25	0.0915	0.30	
9+30	0.0936	0.30	
9+35	0.0957	0.31	
9+40	0.0979	0.31	
9+45	0.1000	0.32	
9+50	0.1023	0.32	
9+55	0.1045	0.33	
10+ 0	0.1068	0.33	
10+ 5	0.1089	0.30	
10+10	0.1106	0.25	
10+15	0.1122	0.24	
10+20	0.1138	0.23	
10+25	0.1154	0.23	
10+30	0.1170	0.23	
10+35	0.1187	0.25	
10+40	0.1207	0.29	
10+45	0.1227	0.29	
10+50	0.1247	0.30	
10+55	0.1268	0.30	
11+ 0	0.1289	0.30	
11+ 5	0.1309	0.30	
11+10	0.1329	0.29	
11+15	0.1349	0.29	
11+20	0.1369	0.29	
11+25	0.1389	0.29	
11+30	0.1409	0.29	
11+35	0.1428	0.28	
11+40	0.1446	0.26	
11+45	0.1464	0.26	
11+50	0.1482	0.26	
11+55	0.1501	0.27	
12+ 0	0.1519	0.27	
12+ 5	0.1550	0.44	
12+10	0.1600	0.73	
12+15	0.1656	0.81	
12+20	0.1718	0.90	
12+25	0.1787	1.00	
12+30	0.1859	1.05	
12+35	0.1939	1.16	
12+40	0.2030	1.32	
12+45	0.2125	1.38	
12+50	0.2225	1.45	
12+55	0.2332	1.55	
13+ 0	0.2441	1.59	
13+ 5	0.2568	1.83	
13+10	0.2720	2.21	
13+15	0.2880	2.32	
13+20	0.3044	2.38	
13+25	0.3210	2.41	
13+30	0.3378	2.44	
13+35	0.3514	1.97	
13+40	0.3595	1.18	
13+45	0.3664	0.99	
13+50	0.3727	0.92	
13+55	0.3788	0.88	
14+ 0	0.3847	0.86	
14+ 5	0.3920	1.05	
14+10	0.4013	1.36	
14+15	0.4112	1.44	
14+20	0.4212	1.44	
14+25	0.4309	1.40	
14+30	0.4406	1.41	
14+35	0.4503	1.41	
14+40	0.4601	1.42	
14+45	0.4700	1.43	
14+50	0.4796	1.40	
14+55	0.4889	1.34	
15+ 0	0.4981	1.34	
15+ 5	0.5070	1.30	
15+10	0.5155	1.23	
15+15	0.5239	1.22	
15+20	0.5320	1.18	
15+25	0.5397	1.12	
15+30	0.5474	1.11	
15+35	0.5538	0.93	
15+40	0.5583	0.65	
15+45	0.5623	0.59	
15+50	0.5662	0.57	
15+55	0.5701	0.56	
16+ 0	0.5739	0.56	
16+ 5	0.5768	0.42	
16+10	0.5780	0.17	
16+15	0.5788	0.11	
16+20	0.5794	0.09	
16+25	0.5799	0.07	
16+30	0.5803	0.06	

16+35	0.5807	0.06	Q	|	|	|	V |
16+40	0.5810	0.05	Q	|	|	|	V |
16+45	0.5813	0.05	Q	|	|	|	V |
16+50	0.5817	0.05	Q	|	|	|	V |
16+55	0.5820	0.05	Q	|	|	|	V |
17+ 0	0.5823	0.05	Q	|	|	|	V |
17+ 5	0.5827	0.05	Q	|	|	|	V |
17+10	0.5831	0.07	Q	|	|	|	V |
17+15	0.5836	0.07	Q	|	|	|	V |
17+20	0.5841	0.07	Q	|	|	|	V |
17+25	0.5847	0.07	Q	|	|	|	V |
17+30	0.5852	0.08	Q	|	|	|	V |
17+35	0.5857	0.08	Q	|	|	|	V |
17+40	0.5862	0.08	Q	|	|	|	V |
17+45	0.5867	0.08	Q	|	|	|	V |
17+50	0.5872	0.07	Q	|	|	|	V |
17+55	0.5877	0.06	Q	|	|	|	V |
18+ 0	0.5881	0.06	Q	|	|	|	V |
18+ 5	0.5885	0.06	Q	|	|	|	V |
18+10	0.5889	0.06	Q	|	|	|	V |
18+15	0.5894	0.06	Q	|	|	|	V |
18+20	0.5898	0.06	Q	|	|	|	V |
18+25	0.5902	0.06	Q	|	|	|	V |
18+30	0.5906	0.06	Q	|	|	|	V |
18+35	0.5910	0.06	Q	|	|	|	V |
18+40	0.5913	0.05	Q	|	|	|	V |
18+45	0.5916	0.05	Q	|	|	|	V |
18+50	0.5919	0.04	Q	|	|	|	V |
18+55	0.5922	0.03	Q	|	|	|	V |
19+ 0	0.5924	0.03	Q	|	|	|	V |
19+ 5	0.5926	0.04	Q	|	|	|	V |
19+10	0.5929	0.04	Q	|	|	|	V |
19+15	0.5932	0.04	Q	|	|	|	V|
19+20	0.5936	0.05	Q	|	|	|	V|
19+25	0.5940	0.06	Q	|	|	|	V|
19+30	0.5944	0.06	Q	|	|	|	V|
19+35	0.5947	0.06	Q	|	|	|	V|
19+40	0.5951	0.05	Q	|	|	|	V|
19+45	0.5954	0.05	Q	|	|	|	V|
19+50	0.5957	0.04	Q	|	|	|	V|
19+55	0.5959	0.03	Q	|	|	|	V|
20+ 0	0.5961	0.03	Q	|	|	|	V|
20+ 5	0.5964	0.04	Q	|	|	|	V|
20+10	0.5967	0.04	Q	|	|	|	V|
20+15	0.5970	0.04	Q	|	|	|	V|
20+20	0.5973	0.04	Q	|	|	|	V|
20+25	0.5976	0.05	Q	|	|	|	V|
20+30	0.5979	0.05	Q	|	|	|	V|
20+35	0.5982	0.05	Q	|	|	|	V|
20+40	0.5985	0.05	Q	|	|	|	V|
20+45	0.5988	0.05	Q	|	|	|	V|
20+50	0.5991	0.04	Q	|	|	|	V|
20+55	0.5994	0.03	Q	|	|	|	V|
21+ 0	0.5996	0.03	Q	|	|	|	V|
21+ 5	0.5998	0.04	Q	|	|	|	V|
21+10	0.6001	0.04	Q	|	|	|	V|
21+15	0.6004	0.04	Q	|	|	|	V|
21+20	0.6007	0.04	Q	|	|	|	V|
21+25	0.6009	0.03	Q	|	|	|	V|
21+30	0.6011	0.03	Q	|	|	|	V|
21+35	0.6014	0.04	Q	|	|	|	V|
21+40	0.6017	0.04	Q	|	|	|	V|
21+45	0.6020	0.04	Q	|	|	|	V|
21+50	0.6022	0.04	Q	|	|	|	V|
21+55	0.6025	0.03	Q	|	|	|	V|
22+ 0	0.6027	0.03	Q	|	|	|	V|
22+ 5	0.6029	0.04	Q	|	|	|	V|
22+10	0.6032	0.04	Q	|	|	|	V|
22+15	0.6035	0.04	Q	|	|	|	V|
22+20	0.6038	0.04	Q	|	|	|	V|
22+25	0.6040	0.03	Q	|	|	|	V|
22+30	0.6043	0.03	Q	|	|	|	V|
22+35	0.6045	0.03	Q	|	|	|	V|
22+40	0.6047	0.03	Q	|	|	|	V|
22+45	0.6049	0.03	Q	|	|	|	V|
22+50	0.6051	0.03	Q	|	|	|	V|
22+55	0.6053	0.03	Q	|	|	|	V|
23+ 0	0.6055	0.03	Q	|	|	|	V|
23+ 5	0.6057	0.03	Q	|	|	|	V|
23+10	0.6059	0.03	Q	|	|	|	V|
23+15	0.6061	0.03	Q	|	|	|	V|
23+20	0.6063	0.03	Q	|	|	|	V|
23+25	0.6066	0.03	Q	|	|	|	V|
23+30	0.6068	0.03	Q	|	|	|	V|
23+35	0.6070	0.03	Q	|	|	|	V|
23+40	0.6072	0.03	Q	|	|	|	V|
23+45	0.6074	0.03	Q	|	|	|	V|

```
   23+50       0.6076      0.03  Q         |         |         |        V|
   23+55       0.6078      0.03  Q         |         |         |        V|
   24+ 0       0.6080      0.03  Q         |         |         |        V|
   24+ 5       0.6082      0.02  Q         |         |         |        V|
   24+10       0.6082      0.01  Q         |         |         |        V|
   24+15       0.6082      0.00  Q         |         |         |        V|
   24+20       0.6082      0.00  Q         |         |         |        V|
   24+25       0.6082      0.00  Q         |         |         |         V
-------------------------------------------------------------------------
```

```
        U n i t   H y d r o g r a p h   A n a l y s i s

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------------------------------------------------------------------------------

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       9.87(Ac.)  =      0.015 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       9.87(Ac.)  =      0.015 Sq. Mi.
Length along longest watercourse =     912.00(Ft.)
Length along longest watercourse measured to centroid =     456.00(Ft.)
Length along longest watercourse =      0.173 Mi.
Length along longest watercourse measured to centroid =      0.086 Mi.
Difference in elevation =      15.00(Ft.)
Slope along watercourse =     86.8421 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time =    0.062 Hr.
Lag time =     3.74 Min.
25% of lag time =     0.94 Min.
40% of lag time =     1.50 Min.
Unit time =     5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            0.50                 4.93

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            1.20                11.84

STORM EVENT (YEAR) =    2.00
Area Averaged 2-Year Rainfall =    0.500(In)
Area Averaged 100-Year Rainfall =    1.200(In)

Point rain (area averaged) =    0.500(In)
Areal adjustment factor =   99.99 %
Adjusted average point rain =    0.500(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     9.870           69.00          0.000
 Total Area Entered =      9.87(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-1     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
69.0  49.8      0.574     0.000        0.574       1.000      0.574
                                                 Sum (F) =   0.574
Area averaged mean soil loss (F) (In/Hr) =  0.574
Minimum soil loss rate ((In/Hr)) =  0.287
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.900
------------------------------------------------------------------------
Slope of intensity-duration curve for a 1 hour storm =0.5000
------------------------------------------------------------------------
```

```
                    U n i t  H y d r o g r a p h
                          VALLEY S-Curve
-------------------------------------------------------------------
                    Unit Hydrograph Data
-------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
    (hrs)                          Graph %           (CFS)
-------------------------------------------------------------------
    1   0.083        133.611         28.998             2.884
    2   0.167        267.222         48.096             4.784
    3   0.250        400.833         12.241             1.218
    4   0.333        534.444          5.441             0.541
    5   0.417        668.055          2.969             0.295
    6   0.500        801.666          2.255             0.224
                               Sum = 100.000   Sum=       9.947
-------------------------------------------------------------------

 The following loss rate calculations reflect use of the minimum calculated loss
 rate subtracted from the Storm Rain to produce the maximum Effective Rain value

 Unit Time   Pattern   Storm Rain     Loss rate(In./Hr)     Effective
      (Hr.)  Percent   (In/Hr)         Max    |   Low        (In/Hr)
  1   0.08     4.20      0.252       (  0.574)       0.227        0.025
  2   0.17     4.30      0.258       (  0.574)       0.232        0.026
  3   0.25     5.00      0.300       (  0.574)       0.270        0.030
  4   0.33     5.00      0.300       (  0.574)       0.270        0.030
  5   0.42     5.80      0.348       (  0.574)       0.313        0.035
  6   0.50     6.50      0.390       (  0.574)       0.351        0.039
  7   0.58     7.40      0.444       (  0.574)       0.400        0.044
  8   0.67     8.60      0.516       (  0.574)       0.464        0.052
  9   0.75    12.30      0.738          0.574    (  0.664)        0.164
 10   0.83    29.10      1.746          0.574    (  1.571)        1.172
 11   0.92     6.80      0.408       (  0.574)       0.367        0.041
 12   1.00     5.00      0.300       (  0.574)       0.270        0.030
               (Loss Rate Not Used)
    Sum =     100.0                                 Sum =     1.7
      Flood volume = Effective rainfall      0.14(In)
       times area       9.9(Ac.)/[(In)/(Ft.)] =       0.1(Ac.Ft)
      Total soil loss =      0.36(In)
      Total soil loss =     0.296(Ac.Ft)
      Total rainfall =      0.50(In)
      Flood volume =        5038.1 Cubic Feet
      Total soil loss =       12874.3 Cubic Feet
      -------------------------------------------------------------------
       Peak flow rate of this hydrograph =      5.977(CFS)
      -------------------------------------------------------------------
      +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                        1 - 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   5   Minute intervals ((CFS))

      -------------------------------------------------------------------
 Time(h+m) Volume Ac.Ft   Q(CFS)  0        2.5       5.0       7.5      10.0
 ------------------------------------------------------------------------
   0+ 5       0.0005      0.07  Q         |         |         |         |
   0+10       0.0018      0.20  Q         |         |         |         |
   0+15       0.0035      0.24  QV        |         |         |         |
   0+20       0.0054      0.28  |Q        |         |         |         |
   0+25       0.0075      0.30  |QV       |         |         |         |
   0+30       0.0099      0.35  |Q V      |         |         |         |
   0+35       0.0125      0.39  |Q  V     |         |         |         |
   0+40       0.0156      0.44  |Q   V    |         |         |         |
   0+45       0.0212      0.81  |  Q   V  |         |         |         |
   0+50       0.0506      4.27  |         |      Q  |         |         |
   0+55       0.0918      5.98  |         |         |  Q      |V        |
   1+ 0       0.1043      1.82  |       Q |         |         |     V   |
   1+ 5       0.1104      0.89  |  Q      |         |         |       V |
   1+10       0.1135      0.44  |Q        |         |         |         V|
   1+15       0.1155      0.29  |Q        |         |         |         V|
   1+20       0.1156      0.02  Q         |         |         |         V|
   1+25       0.1157      0.01  Q         |         |         |          V
------------------------------------------------------------------------
```

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       U n i t   H y d r o g r a p h   A n a l y s i s

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       9.87(Ac.)  =      0.015 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       9.87(Ac.)  =      0.015 Sq. Mi.
Length along longest watercourse =     912.00(Ft.)
Length along longest watercourse measured to centroid =     456.00(Ft.)
Length along longest watercourse =      0.173 Mi.
Length along longest watercourse measured to centroid =      0.086 Mi.
Difference in elevation =      15.00(Ft.)
Slope along watercourse =     86.8421 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time =    0.062 Hr.
Lag time =     3.74 Min.
25% of lag time =     0.94 Min.
40% of lag time =     1.50 Min.
Unit time =     5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            0.80                 7.90

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            1.90                18.75

STORM EVENT (YEAR) =    2.00
Area Averaged 2-Year Rainfall =    0.800(In)
Area Averaged 100-Year Rainfall =    1.900(In)

Point rain (area averaged) =    0.800(In)
Areal adjustment factor =  100.00 %
Adjusted average point rain =    0.800(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     9.870           69.00          0.000
 Total Area Entered =      9.87(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-1     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
69.0  49.8      0.574     0.000        0.574       1.000      0.574
                                                 Sum (F) =   0.574
Area averaged mean soil loss (F) (In/Hr) =  0.574
Minimum soil loss rate ((In/Hr)) =  0.287
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.900
------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
-------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
    (hrs)                          Graph %           (CFS)
------------------------------------------------------------------------
```

1	0.083	133.611	28.998	2.884
2	0.167	267.222	48.096	4.784
3	0.250	400.833	12.241	1.218
4	0.333	534.444	5.441	0.541
5	0.417	668.055	2.969	0.295
6	0.500	801.666	2.255	0.224
			Sum = 100.000 Sum=	9.947

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	1.30	0.125	(0.574)	0.112	0.012
2	0.17	1.30	0.125	(0.574)	0.112	0.012
3	0.25	1.10	0.106	(0.574)	0.095	0.011
4	0.33	1.50	0.144	(0.574)	0.130	0.014
5	0.42	1.50	0.144	(0.574)	0.130	0.014
6	0.50	1.80	0.173	(0.574)	0.156	0.017
7	0.58	1.50	0.144	(0.574)	0.130	0.014
8	0.67	1.80	0.173	(0.574)	0.156	0.017
9	0.75	1.80	0.173	(0.574)	0.156	0.017
10	0.83	1.50	0.144	(0.574)	0.130	0.014
11	0.92	1.60	0.154	(0.574)	0.138	0.015
12	1.00	1.80	0.173	(0.574)	0.156	0.017
13	1.08	2.20	0.211	(0.574)	0.190	0.021
14	1.17	2.20	0.211	(0.574)	0.190	0.021
15	1.25	2.20	0.211	(0.574)	0.190	0.021
16	1.33	2.00	0.192	(0.574)	0.173	0.019
17	1.42	2.60	0.250	(0.574)	0.225	0.025
18	1.50	2.70	0.259	(0.574)	0.233	0.026
19	1.58	2.40	0.230	(0.574)	0.207	0.023
20	1.67	2.70	0.259	(0.574)	0.233	0.026
21	1.75	3.30	0.317	(0.574)	0.285	0.032
22	1.83	3.10	0.298	(0.574)	0.268	0.030
23	1.92	2.90	0.278	(0.574)	0.251	0.028
24	2.00	3.00	0.288	(0.574)	0.259	0.029
25	2.08	3.10	0.298	(0.574)	0.268	0.030
26	2.17	4.20	0.403	(0.574)	0.363	0.040
27	2.25	5.00	0.480	(0.574)	0.432	0.048
28	2.33	3.50	0.336	(0.574)	0.302	0.034
29	2.42	6.80	0.653	0.574	(0.587)	0.079
30	2.50	7.30	0.701	0.574	(0.631)	0.127
31	2.58	8.20	0.787	0.574	(0.708)	0.213
32	2.67	5.90	0.566	(0.574)	0.510	0.057
33	2.75	2.00	0.192	(0.574)	0.173	0.019
34	2.83	1.80	0.173	(0.574)	0.156	0.017
35	2.92	1.80	0.173	(0.574)	0.156	0.017
36	3.00	0.60	0.058	(0.574)	0.052	0.006
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	1.2

Flood volume = Effective rainfall 0.10(In)
times area 9.9(Ac.)/[(In)/(Ft.)] = 0.1(Ac.Ft)
Total soil loss = 0.70(In)
Total soil loss = 0.578(Ac.Ft)
Total rainfall = 0.80(In)
Flood volume = 3477.5 Cubic Feet
Total soil loss = 25183.8 Cubic Feet

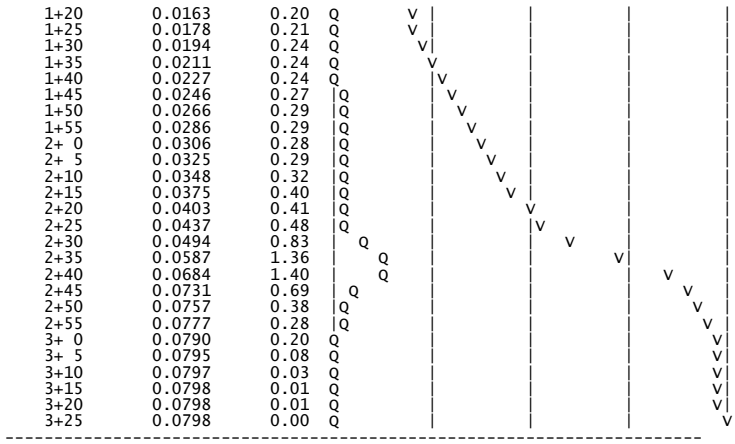
Peak flow rate of this hydrograph = 1.402(CFS)

++

3 - 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 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0002	0.04	Q	|	|	|	|
0+10	0.0009	0.10	Q	|	|	|	|
0+15	0.0016	0.11	Q	|	|	|	|
0+20	0.0024	0.11	QV	|	|	|	|
0+25	0.0033	0.13	QV	|	|	|	|
0+30	0.0044	0.15	Q V	|	|	|	|
0+35	0.0054	0.16	Q V	|	|	|	|
0+40	0.0065	0.15	Q V	|	|	|	|
0+45	0.0076	0.17	Q V	|	|	|	|
0+50	0.0088	0.16	Q V	|	|	|	|
0+55	0.0098	0.15	Q V	|	|	|	|
1+ 0	0.0109	0.16	Q V	|	|	|	|
1+ 5	0.0121	0.18	Q V	|	|	|	|
1+10	0.0135	0.20	Q V	|	|	|	|
1+15	0.0149	0.20	Q V	|	|	|	|


1+20 0.0163 0.20
1+25 0.0178 0.21
1+30 0.0194 0.24
1+35 0.0211 0.24
1+40 0.0227 0.24
1+45 0.0246 0.27
1+50 0.0266 0.29
1+55 0.0286 0.29
2+ 0 0.0306 0.28
2+ 5 0.0325 0.29
2+10 0.0348 0.32
2+15 0.0375 0.40
2+20 0.0403 0.41
2+25 0.0437 0.48
2+30 0.0494 0.83
2+35 0.0587 1.36
2+40 0.0684 1.40
2+45 0.0731 0.69
2+50 0.0757 0.38
2+55 0.0777 0.28
3+ 0 0.0790 0.20
3+ 5 0.0795 0.08
3+10 0.0797 0.03
3+15 0.0798 0.01
3+20 0.0798 0.01
3+25 0.0798 0.00

```
       U n i t   H y d r o g r a p h   A n a l y s i s

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              Study date  03/01/22 File: ex1262.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       9.87(Ac.)  =      0.015 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       9.87(Ac.)  =      0.015 Sq. Mi.
Length along longest watercourse =     912.00(Ft.)
Length along longest watercourse measured to centroid =     456.00(Ft.)
Length along longest watercourse =      0.173 Mi.
Length along longest watercourse measured to centroid =      0.086 Mi.
Difference in elevation =      15.00(Ft.)
Slope along watercourse =     86.8421 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time =    0.062 Hr.
Lag time =     3.74 Min.
25% of lag time =     0.94 Min.
40% of lag time =     1.50 Min.
Unit time =     5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            1.20                11.84

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            2.50                24.67

STORM EVENT (YEAR) =    2.00
Area Averaged 2-Year Rainfall =    1.200(In)
Area Averaged 100-Year Rainfall =    2.500(In)

Point rain (area averaged) =    1.200(In)
Areal adjustment factor =  100.00 %
Adjusted average point rain =    1.200(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     9.870           69.00          0.000
 Total Area Entered =      9.87(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-1     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
69.0  49.8      0.574     0.000        0.574       1.000      0.574
                                                 Sum (F) =   0.574
Area averaged mean soil loss (F) (In/Hr) =  0.574
Minimum soil loss rate ((In/Hr)) =  0.287
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.900
------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
-------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
    (hrs)                          Graph %           (CFS)
------------------------------------------------------------------------
```

1	0.083	133.611	28.998		2.884
2	0.167	267.222	48.096		4.784
3	0.250	400.833	12.241		1.218
4	0.333	534.444	5.441		0.541
5	0.417	668.055	2.969		0.295
6	0.500	801.666	2.255		0.224
			Sum = 100.000	Sum=	9.947

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.072	(0.574)	0.065	0.007
2	0.17	0.60	0.086	(0.574)	0.078	0.009
3	0.25	0.60	0.086	(0.574)	0.078	0.009
4	0.33	0.60	0.086	(0.574)	0.078	0.009
5	0.42	0.60	0.086	(0.574)	0.078	0.009
6	0.50	0.70	0.101	(0.574)	0.091	0.010
7	0.58	0.70	0.101	(0.574)	0.091	0.010
8	0.67	0.70	0.101	(0.574)	0.091	0.010
9	0.75	0.70	0.101	(0.574)	0.091	0.010
10	0.83	0.70	0.101	(0.574)	0.091	0.010
11	0.92	0.70	0.101	(0.574)	0.091	0.010
12	1.00	0.80	0.115	(0.574)	0.104	0.012
13	1.08	0.80	0.115	(0.574)	0.104	0.012
14	1.17	0.80	0.115	(0.574)	0.104	0.012
15	1.25	0.80	0.115	(0.574)	0.104	0.012
16	1.33	0.80	0.115	(0.574)	0.104	0.012
17	1.42	0.80	0.115	(0.574)	0.104	0.012
18	1.50	0.80	0.115	(0.574)	0.104	0.012
19	1.58	0.80	0.115	(0.574)	0.104	0.012
20	1.67	0.80	0.115	(0.574)	0.104	0.012
21	1.75	0.80	0.115	(0.574)	0.104	0.012
22	1.83	0.80	0.115	(0.574)	0.104	0.012
23	1.92	0.80	0.115	(0.574)	0.104	0.012
24	2.00	0.90	0.130	(0.574)	0.117	0.013
25	2.08	0.80	0.115	(0.574)	0.104	0.012
26	2.17	0.90	0.130	(0.574)	0.117	0.013
27	2.25	0.90	0.130	(0.574)	0.117	0.013
28	2.33	0.90	0.130	(0.574)	0.117	0.013
29	2.42	0.90	0.130	(0.574)	0.117	0.013
30	2.50	0.90	0.130	(0.574)	0.117	0.013
31	2.58	0.90	0.130	(0.574)	0.117	0.013
32	2.67	0.90	0.130	(0.574)	0.117	0.013
33	2.75	1.00	0.144	(0.574)	0.130	0.014
34	2.83	1.00	0.144	(0.574)	0.130	0.014
35	2.92	1.00	0.144	(0.574)	0.130	0.014
36	3.00	1.00	0.144	(0.574)	0.130	0.014
37	3.08	1.00	0.144	(0.574)	0.130	0.014
38	3.17	1.10	0.158	(0.574)	0.143	0.016
39	3.25	1.10	0.158	(0.574)	0.143	0.016
40	3.33	1.10	0.158	(0.574)	0.143	0.016
41	3.42	1.20	0.173	(0.574)	0.156	0.017
42	3.50	1.30	0.187	(0.574)	0.168	0.019
43	3.58	1.40	0.202	(0.574)	0.181	0.020
44	3.67	1.40	0.202	(0.574)	0.181	0.020
45	3.75	1.50	0.216	(0.574)	0.194	0.022
46	3.83	1.50	0.216	(0.574)	0.194	0.022
47	3.92	1.60	0.230	(0.574)	0.207	0.023
48	4.00	1.60	0.230	(0.574)	0.207	0.023
49	4.08	1.70	0.245	(0.574)	0.220	0.024
50	4.17	1.80	0.259	(0.574)	0.233	0.026
51	4.25	1.90	0.274	(0.574)	0.246	0.027
52	4.33	2.00	0.288	(0.574)	0.259	0.029
53	4.42	2.10	0.302	(0.574)	0.272	0.030
54	4.50	2.10	0.302	(0.574)	0.272	0.030
55	4.58	2.20	0.317	(0.574)	0.285	0.032
56	4.67	2.30	0.331	(0.574)	0.298	0.033
57	4.75	2.40	0.346	(0.574)	0.311	0.035
58	4.83	2.40	0.346	(0.574)	0.311	0.035
59	4.92	2.50	0.360	(0.574)	0.324	0.036
60	5.00	2.60	0.374	(0.574)	0.337	0.037
61	5.08	3.10	0.446	(0.574)	0.402	0.045
62	5.17	3.60	0.518	(0.574)	0.467	0.052
63	5.25	3.90	0.562	(0.574)	0.505	0.056
64	5.33	4.20	0.605	(0.574)	0.544	0.060
65	5.42	4.70	0.677	0.574	(0.609)	0.103
66	5.50	5.60	0.806	0.574	(0.726)	0.232
67	5.58	1.90	0.274	(0.574)	0.246	0.027
68	5.67	0.90	0.130	(0.574)	0.117	0.013
69	5.75	0.60	0.086	(0.574)	0.078	0.009
70	5.83	0.50	0.072	(0.574)	0.065	0.007
71	5.92	0.30	0.043	(0.574)	0.039	0.004
72	6.00	0.20	0.029	(0.574)	0.026	0.003

```
            (Loss Rate Not Used)
 Sum =     100.0                                  Sum =     1.6
    Flood volume = Effective rainfall      0.14(In)
     times area       9.9(Ac.)/[(In)/(Ft.)] =       0.1(Ac.Ft)
    Total soil loss =      1.06(In)
    Total soil loss =     0.875(Ac.Ft)
    Total rainfall =      1.20(In)
    Flood volume =        4857.3 Cubic Feet
    Total soil loss =       38135.0 Cubic Feet
    ---------------------------------------------------------------------
     Peak flow rate of this hydrograph =      1.378(CFS)
    ---------------------------------------------------------------------
    +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                          6 - 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   5   Minute intervals ((CFS))

    ---------------------------------------------------------------------
Time(h+m) Volume Ac.Ft   Q(CFS)  0        2.5       5.0       7.5      10.0
-------------------------------------------------------------------------
  0+ 5       0.0001      0.02  Q          |         |         |         |
  0+10       0.0006      0.06  Q          |         |         |         |
  0+15       0.0011      0.08  Q          |         |         |         |
  0+20       0.0016      0.08  Q          |         |         |         |
  0+25       0.0022      0.08  Q          |         |         |         |
  0+30       0.0028      0.09  QV         |         |         |         |
  0+35       0.0035      0.10  QV         |         |         |         |
  0+40       0.0042      0.10  QV         |         |         |         |
  0+45       0.0049      0.10  QV         |         |         |         |
  0+50       0.0055      0.10  QV         |         |         |         |
  0+55       0.0062      0.10  Q V        |         |         |         |
  1+ 0       0.0070      0.10  Q V        |         |         |         |
  1+ 5       0.0077      0.11  Q V        |         |         |         |
  1+10       0.0085      0.11  Q  V       |         |         |         |
  1+15       0.0093      0.11  Q  V       |         |         |         |
  1+20       0.0101      0.11  Q  V       |         |         |         |
  1+25       0.0109      0.11  Q  V       |         |         |         |
  1+30       0.0116      0.11  Q   V      |         |         |         |
  1+35       0.0124      0.11  Q   V      |         |         |         |
  1+40       0.0132      0.11  Q   V      |         |         |         |
  1+45       0.0140      0.11  Q    V     |         |         |         |
  1+50       0.0148      0.11  Q    V     |         |         |         |
  1+55       0.0156      0.11  Q    V     |         |         |         |
  2+ 0       0.0164      0.12  Q    V     |         |         |         |
  2+ 5       0.0173      0.12  Q     V    |         |         |         |
  2+10       0.0181      0.12  Q     V    |         |         |         |
  2+15       0.0190      0.13  Q     V    |         |         |         |
  2+20       0.0198      0.13  Q      V   |         |         |         |
  2+25       0.0207      0.13  Q      V   |         |         |         |
  2+30       0.0216      0.13  Q      V   |         |         |         |
  2+35       0.0225      0.13  Q       V  |         |         |         |
  2+40       0.0234      0.13  Q       V  |         |         |         |
  2+45       0.0243      0.13  Q       V  |         |         |         |
  2+50       0.0253      0.14  Q        V|         |         |         |
  2+55       0.0262      0.14  Q        V|         |         |         |
  3+ 0       0.0272      0.14  Q        V|         |         |         |
  3+ 5       0.0282      0.14  Q         V         |         |         |
  3+10       0.0292      0.15  Q         V         |         |         |
  3+15       0.0303      0.15  Q         V         |         |         |
  3+20       0.0314      0.16  Q         |V        |         |         |
  3+25       0.0325      0.16  Q         |V        |         |         |
  3+30       0.0337      0.17  Q         | V       |         |         |
  3+35       0.0349      0.19  Q         | V       |         |         |
  3+40       0.0363      0.20  Q         |  V      |         |         |
  3+45       0.0377      0.20  Q         |  V      |         |         |
  3+50       0.0391      0.21  Q         |   V     |         |         |
  3+55       0.0406      0.22  Q         |   V     |         |         |
  4+ 0       0.0422      0.23  Q         |    V    |         |         |
  4+ 5       0.0438      0.23  Q         |    V    |         |         |
  4+10       0.0454      0.24  Q         |     V   |         |         |
  4+15       0.0472      0.26  |Q        |     V   |         |         |
  4+20       0.0491      0.27  |Q        |      V  |         |         |
  4+25       0.0510      0.28  |Q        |       V |         |         |
  4+30       0.0531      0.30  |Q        |        V|         |         |
  4+35       0.0552      0.30  |Q        |        V|         |         |
  4+40       0.0573      0.32  |Q        |         V         |         |
  4+45       0.0596      0.33  |Q        |          V        |         |
  4+50       0.0619      0.34  |Q        |          |V       |         |
  4+55       0.0643      0.35  |Q        |          | V      |         |
  5+ 0       0.0668      0.36  |Q        |          |  V     |         |
  5+ 5       0.0694      0.39  |Q        |          |   V    |         |
  5+10       0.0725      0.45  |Q        |          |    V   |         |
  5+15       0.0760      0.50  | Q       |          |     V  |         |
  5+20       0.0798      0.55  | Q       |          |      V |         |
  5+25       0.0846      0.70  | Q       |          |       V|         |
  5+30       0.0935      1.29  |    Q    |          |        |  V      |
```

```
    5+35       0.1030      1.38  |    Q    |         |         |     V    |
    5+40       0.1067      0.54  | Q       |         |         |       V  |
    5+45       0.1087      0.29  |Q        |         |         |       V  |
    5+50       0.1100      0.18  Q         |         |         |        V |
    5+55       0.1108      0.12  Q         |         |         |        V |
    6+ 0       0.1112      0.05  Q         |         |         |        V |
    6+ 5       0.1114      0.03  Q         |         |         |        V |
    6+10       0.1115      0.01  Q         |         |         |        V |
    6+15       0.1115      0.00  Q         |         |         |        V |
    6+20       0.1115      0.00  Q         |         |         |        V |
    6+25       0.1115      0.00  Q         |         |         |         V
-------------------------------------------------------------------------
```

```
       U n i t   H y d r o g r a p h   A n a l y s i s

       Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2008, Version 8.1
              Study date  03/01/22 File: ex12242.out

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------------------------------------------------------------------------------

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       9.87(Ac.)  =      0.015 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       9.87(Ac.)  =      0.015 Sq. Mi.
Length along longest watercourse =     912.00(Ft.)
Length along longest watercourse measured to centroid =     456.00(Ft.)
Length along longest watercourse =      0.173 Mi.
Length along longest watercourse measured to centroid =      0.086 Mi.
Difference in elevation =      15.00(Ft.)
Slope along watercourse =     86.8421 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time =    0.062 Hr.
Lag time =     3.74 Min.
25% of lag time =     0.94 Min.
40% of lag time =     1.50 Min.
Unit time =     5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            1.80                 17.77

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            4.50                 44.41

STORM EVENT (YEAR) =    2.00
Area Averaged 2-Year Rainfall =    1.800(In)
Area Averaged 100-Year Rainfall =    4.500(In)

Point rain (area averaged) =    1.800(In)
Areal adjustment factor =  100.00 %
Adjusted average point rain =    1.800(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     9.870           69.00          0.000
 Total Area Entered =      9.87(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-1     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
69.0  49.8      0.574     0.000        0.574       1.000      0.574
                                                 Sum (F) =   0.574
Area averaged mean soil loss (F) (In/Hr) =  0.574
Minimum soil loss rate ((In/Hr)) =  0.287
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.900
------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
    (hrs)                          Graph %           (CFS)
------------------------------------------------------------------------
```

1	0.083	133.611	28.998		2.884
2	0.167	267.222	48.096		4.784
3	0.250	400.833	12.241		1.218
4	0.333	534.444	5.441		0.541
5	0.417	668.055	2.969		0.295
6	0.500	801.666	2.255		0.224
			Sum = 100.000	Sum=	9.947

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.014	(1.017)	0.013	0.001
2	0.17	0.07	0.014	(1.014)	0.013	0.001
3	0.25	0.07	0.014	(1.010)	0.013	0.001
4	0.33	0.10	0.022	(1.006)	0.019	0.002
5	0.42	0.10	0.022	(1.002)	0.019	0.002
6	0.50	0.10	0.022	(0.998)	0.019	0.002
7	0.58	0.10	0.022	(0.994)	0.019	0.002
8	0.67	0.10	0.022	(0.990)	0.019	0.002
9	0.75	0.10	0.022	(0.986)	0.019	0.002
10	0.83	0.13	0.029	(0.982)	0.026	0.003
11	0.92	0.13	0.029	(0.978)	0.026	0.003
12	1.00	0.13	0.029	(0.975)	0.026	0.003
13	1.08	0.10	0.022	(0.971)	0.019	0.002
14	1.17	0.10	0.022	(0.967)	0.019	0.002
15	1.25	0.10	0.022	(0.963)	0.019	0.002
16	1.33	0.10	0.022	(0.959)	0.019	0.002
17	1.42	0.10	0.022	(0.955)	0.019	0.002
18	1.50	0.10	0.022	(0.952)	0.019	0.002
19	1.58	0.10	0.022	(0.948)	0.019	0.002
20	1.67	0.10	0.022	(0.944)	0.019	0.002
21	1.75	0.10	0.022	(0.940)	0.019	0.002
22	1.83	0.13	0.029	(0.936)	0.026	0.003
23	1.92	0.13	0.029	(0.933)	0.026	0.003
24	2.00	0.13	0.029	(0.929)	0.026	0.003
25	2.08	0.13	0.029	(0.925)	0.026	0.003
26	2.17	0.13	0.029	(0.921)	0.026	0.003
27	2.25	0.13	0.029	(0.918)	0.026	0.003
28	2.33	0.13	0.029	(0.914)	0.026	0.003
29	2.42	0.13	0.029	(0.910)	0.026	0.003
30	2.50	0.13	0.029	(0.906)	0.026	0.003
31	2.58	0.17	0.036	(0.903)	0.032	0.004
32	2.67	0.17	0.036	(0.899)	0.032	0.004
33	2.75	0.17	0.036	(0.895)	0.032	0.004
34	2.83	0.17	0.036	(0.892)	0.032	0.004
35	2.92	0.17	0.036	(0.888)	0.032	0.004
36	3.00	0.17	0.036	(0.884)	0.032	0.004
37	3.08	0.17	0.036	(0.881)	0.032	0.004
38	3.17	0.17	0.036	(0.877)	0.032	0.004
39	3.25	0.17	0.036	(0.873)	0.032	0.004
40	3.33	0.17	0.036	(0.870)	0.032	0.004
41	3.42	0.17	0.036	(0.866)	0.032	0.004
42	3.50	0.17	0.036	(0.862)	0.032	0.004
43	3.58	0.17	0.036	(0.859)	0.032	0.004
44	3.67	0.17	0.036	(0.855)	0.032	0.004
45	3.75	0.17	0.036	(0.852)	0.032	0.004
46	3.83	0.20	0.043	(0.848)	0.039	0.004
47	3.92	0.20	0.043	(0.844)	0.039	0.004
48	4.00	0.20	0.043	(0.841)	0.039	0.004
49	4.08	0.20	0.043	(0.837)	0.039	0.004
50	4.17	0.20	0.043	(0.834)	0.039	0.004
51	4.25	0.20	0.043	(0.830)	0.039	0.004
52	4.33	0.23	0.050	(0.827)	0.045	0.005
53	4.42	0.23	0.050	(0.823)	0.045	0.005
54	4.50	0.23	0.050	(0.820)	0.045	0.005
55	4.58	0.23	0.050	(0.816)	0.045	0.005
56	4.67	0.23	0.050	(0.813)	0.045	0.005
57	4.75	0.23	0.050	(0.809)	0.045	0.005
58	4.83	0.27	0.058	(0.806)	0.052	0.006
59	4.92	0.27	0.058	(0.802)	0.052	0.006
60	5.00	0.27	0.058	(0.799)	0.052	0.006
61	5.08	0.20	0.043	(0.795)	0.039	0.004
62	5.17	0.20	0.043	(0.792)	0.039	0.004
63	5.25	0.20	0.043	(0.788)	0.039	0.004
64	5.33	0.23	0.050	(0.785)	0.045	0.005
65	5.42	0.23	0.050	(0.781)	0.045	0.005
66	5.50	0.23	0.050	(0.778)	0.045	0.005
67	5.58	0.27	0.058	(0.775)	0.052	0.006
68	5.67	0.27	0.058	(0.771)	0.052	0.006
69	5.75	0.27	0.058	(0.768)	0.052	0.006
70	5.83	0.27	0.058	(0.764)	0.052	0.006
71	5.92	0.27	0.058	(0.761)	0.052	0.006
72	6.00	0.27	0.058	(0.758)	0.052	0.006

73	6.08	0.30	0.065	(0.754)	0.058	0.006
74	6.17	0.30	0.065	(0.751)	0.058	0.006
75	6.25	0.30	0.065	(0.748)	0.058	0.006
76	6.33	0.30	0.065	(0.744)	0.058	0.006
77	6.42	0.30	0.065	(0.741)	0.058	0.006
78	6.50	0.30	0.065	(0.738)	0.058	0.006
79	6.58	0.33	0.072	(0.734)	0.065	0.007
80	6.67	0.33	0.072	(0.731)	0.065	0.007
81	6.75	0.33	0.072	(0.728)	0.065	0.007
82	6.83	0.33	0.072	(0.724)	0.065	0.007
83	6.92	0.33	0.072	(0.721)	0.065	0.007
84	7.00	0.33	0.072	(0.718)	0.065	0.007
85	7.08	0.33	0.072	(0.715)	0.065	0.007
86	7.17	0.33	0.072	(0.711)	0.065	0.007
87	7.25	0.33	0.072	(0.708)	0.065	0.007
88	7.33	0.37	0.079	(0.705)	0.071	0.008
89	7.42	0.37	0.079	(0.702)	0.071	0.008
90	7.50	0.37	0.079	(0.698)	0.071	0.008
91	7.58	0.40	0.086	(0.695)	0.078	0.009
92	7.67	0.40	0.086	(0.692)	0.078	0.009
93	7.75	0.40	0.086	(0.689)	0.078	0.009
94	7.83	0.43	0.094	(0.686)	0.084	0.009
95	7.92	0.43	0.094	(0.682)	0.084	0.009
96	8.00	0.43	0.094	(0.679)	0.084	0.009
97	8.08	0.50	0.108	(0.676)	0.097	0.011
98	8.17	0.50	0.108	(0.673)	0.097	0.011
99	8.25	0.50	0.108	(0.670)	0.097	0.011
100	8.33	0.50	0.108	(0.667)	0.097	0.011
101	8.42	0.50	0.108	(0.664)	0.097	0.011
102	8.50	0.50	0.108	(0.660)	0.097	0.011
103	8.58	0.53	0.115	(0.657)	0.104	0.012
104	8.67	0.53	0.115	(0.654)	0.104	0.012
105	8.75	0.53	0.115	(0.651)	0.104	0.012
106	8.83	0.57	0.122	(0.648)	0.110	0.012
107	8.92	0.57	0.122	(0.645)	0.110	0.012
108	9.00	0.57	0.122	(0.642)	0.110	0.012
109	9.08	0.63	0.137	(0.639)	0.123	0.014
110	9.17	0.63	0.137	(0.636)	0.123	0.014
111	9.25	0.63	0.137	(0.633)	0.123	0.014
112	9.33	0.67	0.144	(0.630)	0.130	0.014
113	9.42	0.67	0.144	(0.627)	0.130	0.014
114	9.50	0.67	0.144	(0.624)	0.130	0.014
115	9.58	0.70	0.151	(0.621)	0.136	0.015
116	9.67	0.70	0.151	(0.618)	0.136	0.015
117	9.75	0.70	0.151	(0.615)	0.136	0.015
118	9.83	0.73	0.158	(0.612)	0.143	0.016
119	9.92	0.73	0.158	(0.609)	0.143	0.016
120	10.00	0.73	0.158	(0.606)	0.143	0.016
121	10.08	0.50	0.108	(0.603)	0.097	0.011
122	10.17	0.50	0.108	(0.600)	0.097	0.011
123	10.25	0.50	0.108	(0.597)	0.097	0.011
124	10.33	0.50	0.108	(0.594)	0.097	0.011
125	10.42	0.50	0.108	(0.592)	0.097	0.011
126	10.50	0.50	0.108	(0.589)	0.097	0.011
127	10.58	0.67	0.144	(0.586)	0.130	0.014
128	10.67	0.67	0.144	(0.583)	0.130	0.014
129	10.75	0.67	0.144	(0.580)	0.130	0.014
130	10.83	0.67	0.144	(0.577)	0.130	0.014
131	10.92	0.67	0.144	(0.574)	0.130	0.014
132	11.00	0.67	0.144	(0.572)	0.130	0.014
133	11.08	0.63	0.137	(0.569)	0.123	0.014
134	11.17	0.63	0.137	(0.566)	0.123	0.014
135	11.25	0.63	0.137	(0.563)	0.123	0.014
136	11.33	0.63	0.137	(0.560)	0.123	0.014
137	11.42	0.63	0.137	(0.558)	0.123	0.014
138	11.50	0.63	0.137	(0.555)	0.123	0.014
139	11.58	0.57	0.122	(0.552)	0.110	0.012
140	11.67	0.57	0.122	(0.549)	0.110	0.012
141	11.75	0.57	0.122	(0.547)	0.110	0.012
142	11.83	0.60	0.130	(0.544)	0.117	0.013
143	11.92	0.60	0.130	(0.541)	0.117	0.013
144	12.00	0.60	0.130	(0.538)	0.117	0.013
145	12.08	0.83	0.180	(0.536)	0.162	0.018
146	12.17	0.83	0.180	(0.533)	0.162	0.018
147	12.25	0.83	0.180	(0.530)	0.162	0.018
148	12.33	0.87	0.187	(0.528)	0.168	0.019
149	12.42	0.87	0.187	(0.525)	0.168	0.019
150	12.50	0.87	0.187	(0.522)	0.168	0.019
151	12.58	0.93	0.202	(0.520)	0.181	0.020
152	12.67	0.93	0.202	(0.517)	0.181	0.020
153	12.75	0.93	0.202	(0.515)	0.181	0.020
154	12.83	0.97	0.209	(0.512)	0.188	0.021
155	12.92	0.97	0.209	(0.509)	0.188	0.021
156	13.00	0.97	0.209	(0.507)	0.188	0.021
157	13.08	1.13	0.245	(0.504)	0.220	0.024
158	13.17	1.13	0.245	(0.502)	0.220	0.024
159	13.25	1.13	0.245	(0.499)	0.220	0.024

160	13.33	1.13	0.245	(0.497)	0.220	0.024
161	13.42	1.13	0.245	(0.494)	0.220	0.024
162	13.50	1.13	0.245	(0.492)	0.220	0.024
163	13.58	0.77	0.166	(0.489)	0.149	0.017
164	13.67	0.77	0.166	(0.487)	0.149	0.017
165	13.75	0.77	0.166	(0.484)	0.149	0.017
166	13.83	0.77	0.166	(0.482)	0.149	0.017
167	13.92	0.77	0.166	(0.479)	0.149	0.017
168	14.00	0.77	0.166	(0.477)	0.149	0.017
169	14.08	0.90	0.194	(0.474)	0.175	0.019
170	14.17	0.90	0.194	(0.472)	0.175	0.019
171	14.25	0.90	0.194	(0.469)	0.175	0.019
172	14.33	0.87	0.187	(0.467)	0.168	0.019
173	14.42	0.87	0.187	(0.465)	0.168	0.019
174	14.50	0.87	0.187	(0.462)	0.168	0.019
175	14.58	0.87	0.187	(0.460)	0.168	0.019
176	14.67	0.87	0.187	(0.458)	0.168	0.019
177	14.75	0.87	0.187	(0.455)	0.168	0.019
178	14.83	0.83	0.180	(0.453)	0.162	0.018
179	14.92	0.83	0.180	(0.451)	0.162	0.018
180	15.00	0.83	0.180	(0.448)	0.162	0.018
181	15.08	0.80	0.173	(0.446)	0.156	0.017
182	15.17	0.80	0.173	(0.444)	0.156	0.017
183	15.25	0.80	0.173	(0.441)	0.156	0.017
184	15.33	0.77	0.166	(0.439)	0.149	0.017
185	15.42	0.77	0.166	(0.437)	0.149	0.017
186	15.50	0.77	0.166	(0.435)	0.149	0.017
187	15.58	0.63	0.137	(0.432)	0.123	0.014
188	15.67	0.63	0.137	(0.430)	0.123	0.014
189	15.75	0.63	0.137	(0.428)	0.123	0.014
190	15.83	0.63	0.137	(0.426)	0.123	0.014
191	15.92	0.63	0.137	(0.424)	0.123	0.014
192	16.00	0.63	0.137	(0.421)	0.123	0.014
193	16.08	0.13	0.029	(0.419)	0.026	0.003
194	16.17	0.13	0.029	(0.417)	0.026	0.003
195	16.25	0.13	0.029	(0.415)	0.026	0.003
196	16.33	0.13	0.029	(0.413)	0.026	0.003
197	16.42	0.13	0.029	(0.411)	0.026	0.003
198	16.50	0.13	0.029	(0.409)	0.026	0.003
199	16.58	0.10	0.022	(0.407)	0.019	0.002
200	16.67	0.10	0.022	(0.405)	0.019	0.002
201	16.75	0.10	0.022	(0.403)	0.019	0.002
202	16.83	0.10	0.022	(0.401)	0.019	0.002
203	16.92	0.10	0.022	(0.398)	0.019	0.002
204	17.00	0.10	0.022	(0.396)	0.019	0.002
205	17.08	0.17	0.036	(0.394)	0.032	0.004
206	17.17	0.17	0.036	(0.392)	0.032	0.004
207	17.25	0.17	0.036	(0.390)	0.032	0.004
208	17.33	0.17	0.036	(0.389)	0.032	0.004
209	17.42	0.17	0.036	(0.387)	0.032	0.004
210	17.50	0.17	0.036	(0.385)	0.032	0.004
211	17.58	0.17	0.036	(0.383)	0.032	0.004
212	17.67	0.17	0.036	(0.381)	0.032	0.004
213	17.75	0.17	0.036	(0.379)	0.032	0.004
214	17.83	0.13	0.029	(0.377)	0.026	0.003
215	17.92	0.13	0.029	(0.375)	0.026	0.003
216	18.00	0.13	0.029	(0.373)	0.026	0.003
217	18.08	0.13	0.029	(0.371)	0.026	0.003
218	18.17	0.13	0.029	(0.370)	0.026	0.003
219	18.25	0.13	0.029	(0.368)	0.026	0.003
220	18.33	0.13	0.029	(0.366)	0.026	0.003
221	18.42	0.13	0.029	(0.364)	0.026	0.003
222	18.50	0.13	0.029	(0.363)	0.026	0.003
223	18.58	0.10	0.022	(0.361)	0.019	0.002
224	18.67	0.10	0.022	(0.359)	0.019	0.002
225	18.75	0.10	0.022	(0.357)	0.019	0.002
226	18.83	0.07	0.014	(0.356)	0.013	0.001
227	18.92	0.07	0.014	(0.354)	0.013	0.001
228	19.00	0.07	0.014	(0.352)	0.013	0.001
229	19.08	0.10	0.022	(0.351)	0.019	0.002
230	19.17	0.10	0.022	(0.349)	0.019	0.002
231	19.25	0.10	0.022	(0.347)	0.019	0.002
232	19.33	0.13	0.029	(0.346)	0.026	0.003
233	19.42	0.13	0.029	(0.344)	0.026	0.003
234	19.50	0.13	0.029	(0.342)	0.026	0.003
235	19.58	0.10	0.022	(0.341)	0.019	0.002
236	19.67	0.10	0.022	(0.339)	0.019	0.002
237	19.75	0.10	0.022	(0.338)	0.019	0.002
238	19.83	0.07	0.014	(0.336)	0.013	0.001
239	19.92	0.07	0.014	(0.335)	0.013	0.001
240	20.00	0.07	0.014	(0.333)	0.013	0.001
241	20.08	0.10	0.022	(0.332)	0.019	0.002
242	20.17	0.10	0.022	(0.330)	0.019	0.002
243	20.25	0.10	0.022	(0.329)	0.019	0.002
244	20.33	0.10	0.022	(0.328)	0.019	0.002
245	20.42	0.10	0.022	(0.326)	0.019	0.002
246	20.50	0.10	0.022	(0.325)	0.019	0.002

247	20.58	0.10	0.022	(	0.323)	0.019	0.002
248	20.67	0.10	0.022	(	0.322)	0.019	0.002
249	20.75	0.10	0.022	(	0.321)	0.019	0.002
250	20.83	0.07	0.014	(	0.319)	0.013	0.001
251	20.92	0.07	0.014	(	0.318)	0.013	0.001
252	21.00	0.07	0.014	(	0.317)	0.013	0.001
253	21.08	0.10	0.022	(	0.316)	0.019	0.002
254	21.17	0.10	0.022	(	0.314)	0.019	0.002
255	21.25	0.10	0.022	(	0.313)	0.019	0.002
256	21.33	0.07	0.014	(	0.312)	0.013	0.001
257	21.42	0.07	0.014	(	0.311)	0.013	0.001
258	21.50	0.07	0.014	(	0.310)	0.013	0.001
259	21.58	0.10	0.022	(	0.308)	0.019	0.002
260	21.67	0.10	0.022	(	0.307)	0.019	0.002
261	21.75	0.10	0.022	(	0.306)	0.019	0.002
262	21.83	0.07	0.014	(	0.305)	0.013	0.001
263	21.92	0.07	0.014	(	0.304)	0.013	0.001
264	22.00	0.07	0.014	(	0.303)	0.013	0.001
265	22.08	0.10	0.022	(	0.302)	0.019	0.002
266	22.17	0.10	0.022	(	0.301)	0.019	0.002
267	22.25	0.10	0.022	(	0.300)	0.019	0.002
268	22.33	0.07	0.014	(	0.299)	0.013	0.001
269	22.42	0.07	0.014	(	0.298)	0.013	0.001
270	22.50	0.07	0.014	(	0.297)	0.013	0.001
271	22.58	0.07	0.014	(	0.297)	0.013	0.001
272	22.67	0.07	0.014	(	0.296)	0.013	0.001
273	22.75	0.07	0.014	(	0.295)	0.013	0.001
274	22.83	0.07	0.014	(	0.294)	0.013	0.001
275	22.92	0.07	0.014	(	0.293)	0.013	0.001
276	23.00	0.07	0.014	(	0.293)	0.013	0.001
277	23.08	0.07	0.014	(	0.292)	0.013	0.001
278	23.17	0.07	0.014	(	0.291)	0.013	0.001
279	23.25	0.07	0.014	(	0.291)	0.013	0.001
280	23.33	0.07	0.014	(	0.290)	0.013	0.001
281	23.42	0.07	0.014	(	0.290)	0.013	0.001
282	23.50	0.07	0.014	(	0.289)	0.013	0.001
283	23.58	0.07	0.014	(	0.289)	0.013	0.001
284	23.67	0.07	0.014	(	0.288)	0.013	0.001
285	23.75	0.07	0.014	(	0.288)	0.013	0.001
286	23.83	0.07	0.014	(	0.287)	0.013	0.001
287	23.92	0.07	0.014	(	0.287)	0.013	0.001
288	24.00	0.07	0.014	(	0.287)	0.013	0.001

(Loss Rate Not Used)

Sum = 100.0 Sum = 2.2

Flood volume = Effective rainfall 0.18(In)
times area 9.9(Ac.)/[(In)/(Ft.)] = 0.1(Ac.Ft)
Total soil loss = 1.62(In)
Total soil loss = 1.332(Ac.Ft)
Total rainfall = 1.80(In)
Flood volume = 6448.9 Cubic Feet
Total soil loss = 58040.4 Cubic Feet

Peak flow rate of this hydrograph = 0.244(CFS)

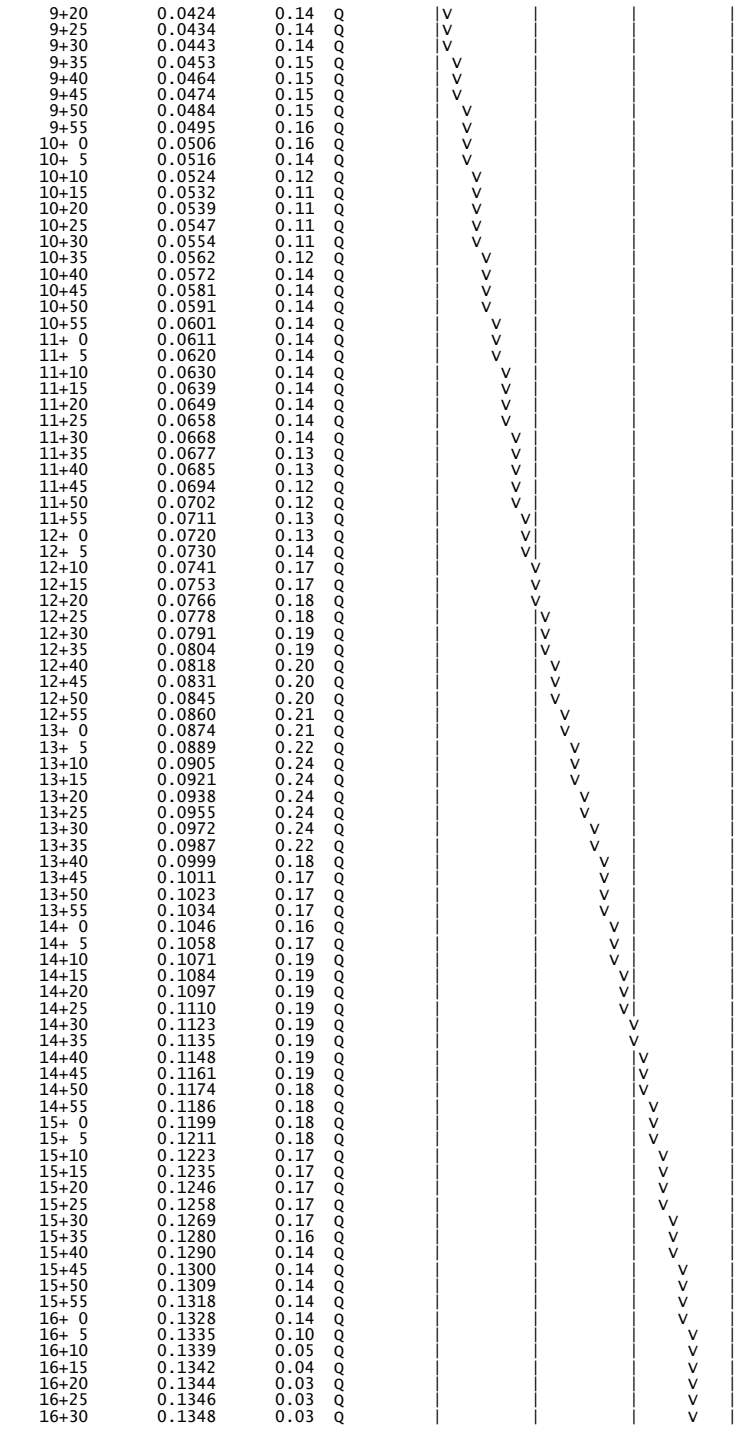
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24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0000	0.00	Q	|	|	|	|
0+10	0.0001	0.01	Q	|	|	|	|
0+15	0.0002	0.01	Q	|	|	|	|
0+20	0.0003	0.02	Q	|	|	|	|
0+25	0.0004	0.02	Q	|	|	|	|
0+30	0.0006	0.02	Q	|	|	|	|
0+35	0.0007	0.02	Q	|	|	|	|
0+40	0.0009	0.02	Q	|	|	|	|
0+45	0.0010	0.02	Q	|	|	|	|
0+50	0.0012	0.02	Q	|	|	|	|
0+55	0.0014	0.03	Q	|	|	|	|
1+ 0	0.0016	0.03	Q	|	|	|	|
1+ 5	0.0017	0.03	Q	|	|	|	|
1+10	0.0019	0.02	Q	|	|	|	|
1+15	0.0021	0.02	Q	|	|	|	|
1+20	0.0022	0.02	Q	|	|	|	|
1+25	0.0024	0.02	Q	|	|	|	|
1+30	0.0025	0.02	Q	|	|	|	|
1+35	0.0026	0.02	Q	|	|	|	|
1+40	0.0028	0.02	Q	|	|	|	|
1+45	0.0029	0.02	Q	|	|	|	|
1+50	0.0031	0.02	Q	|	|	|	|
1+55	0.0033	0.03	Q	|	|	|	|
2+ 0	0.0035	0.03	Q	|	|	|	|

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2+ 5       0.0037      0.03  Q          |          |          |          |
2+10       0.0039      0.03  QV         |          |          |          |
2+15       0.0041      0.03  QV         |          |          |          |
2+20       0.0043      0.03  QV         |          |          |          |
2+25       0.0045      0.03  QV         |          |          |          |
2+30       0.0047      0.03  QV         |          |          |          |
2+35       0.0049      0.03  QV         |          |          |          |
2+40       0.0051      0.03  QV         |          |          |          |
2+45       0.0054      0.04  QV         |          |          |          |
2+50       0.0056      0.04  QV         |          |          |          |
2+55       0.0058      0.04  QV         |          |          |          |
3+ 0       0.0061      0.04  QV         |          |          |          |
3+ 5       0.0063      0.04  QV         |          |          |          |
3+10       0.0066      0.04  QV         |          |          |          |
3+15       0.0068      0.04  QV         |          |          |          |
3+20       0.0071      0.04  QV         |          |          |          |
3+25       0.0073      0.04  QV         |          |          |          |
3+30       0.0076      0.04  Q V        |          |          |          |
3+35       0.0078      0.04  Q V        |          |          |          |
3+40       0.0081      0.04  Q V        |          |          |          |
3+45       0.0083      0.04  Q V        |          |          |          |
3+50       0.0086      0.04  Q V        |          |          |          |
3+55       0.0089      0.04  Q V        |          |          |          |
4+ 0       0.0091      0.04  Q V        |          |          |          |
4+ 5       0.0094      0.04  Q V        |          |          |          |
4+10       0.0097      0.04  Q V        |          |          |          |
4+15       0.0100      0.04  Q V        |          |          |          |
4+20       0.0103      0.05  Q V        |          |          |          |
4+25       0.0107      0.05  Q V        |          |          |          |
4+30       0.0110      0.05  Q V        |          |          |          |
4+35       0.0114      0.05  Q  V       |          |          |          |
4+40       0.0117      0.05  Q  V       |          |          |          |
4+45       0.0120      0.05  Q  V       |          |          |          |
4+50       0.0124      0.05  Q  V       |          |          |          |
4+55       0.0128      0.06  Q  V       |          |          |          |
5+ 0       0.0132      0.06  Q  V       |          |          |          |
5+ 5       0.0135      0.05  Q  V       |          |          |          |
5+10       0.0139      0.05  Q  V       |          |          |          |
5+15       0.0142      0.04  Q  V       |          |          |          |
5+20       0.0145      0.05  Q  V       |          |          |          |
5+25       0.0148      0.05  Q   V      |          |          |          |
5+30       0.0152      0.05  Q   V      |          |          |          |
5+35       0.0155      0.05  Q   V      |          |          |          |
5+40       0.0159      0.06  Q   V      |          |          |          |
5+45       0.0163      0.06  Q   V      |          |          |          |
5+50       0.0167      0.06  Q   V      |          |          |          |
5+55       0.0171      0.06  Q   V      |          |          |          |
6+ 0       0.0175      0.06  Q   V      |          |          |          |
6+ 5       0.0179      0.06  Q   V      |          |          |          |
6+10       0.0183      0.06  Q   V      |          |          |          |
6+15       0.0188      0.06  Q    V     |          |          |          |
6+20       0.0192      0.06  Q    V     |          |          |          |
6+25       0.0196      0.06  Q    V     |          |          |          |
6+30       0.0201      0.06  Q    V     |          |          |          |
6+35       0.0205      0.07  Q    V     |          |          |          |
6+40       0.0210      0.07  Q    V     |          |          |          |
6+45       0.0215      0.07  Q    V     |          |          |          |
6+50       0.0220      0.07  Q    V     |          |          |          |
6+55       0.0225      0.07  Q     V    |          |          |          |
7+ 0       0.0230      0.07  Q     V    |          |          |          |
7+ 5       0.0235      0.07  Q     V    |          |          |          |
7+10       0.0240      0.07  Q     V    |          |          |          |
7+15       0.0245      0.07  Q     V    |          |          |          |
7+20       0.0250      0.07  Q     V    |          |          |          |
7+25       0.0255      0.08  Q     V    |          |          |          |
7+30       0.0260      0.08  Q      V   |          |          |          |
7+35       0.0266      0.08  Q      V   |          |          |          |
7+40       0.0272      0.08  Q      V   |          |          |          |
7+45       0.0278      0.09  Q      V   |          |          |          |
7+50       0.0284      0.09  Q      V   |          |          |          |
7+55       0.0290      0.09  Q      V   |          |          |          |
8+ 0       0.0296      0.09  Q       V  |          |          |          |
8+ 5       0.0303      0.10  Q       V  |          |          |          |
8+10       0.0310      0.10  Q       V  |          |          |          |
8+15       0.0317      0.11  Q       V  |          |          |          |
8+20       0.0325      0.11  Q       V  |          |          |          |
8+25       0.0332      0.11  Q       V  |          |          |          |
8+30       0.0340      0.11  Q        V |          |          |          |
8+35       0.0347      0.11  Q        V |          |          |          |
8+40       0.0355      0.11  Q        V |          |          |          |
8+45       0.0363      0.11  Q        V |          |          |          |
8+50       0.0371      0.12  Q         V          |          |          |
8+55       0.0379      0.12  Q         V          |          |          |
9+ 0       0.0387      0.12  Q         V          |          |          |
9+ 5       0.0396      0.13  Q         V          |          |          |
9+10       0.0405      0.13  Q         V          |          |          |
9+15       0.0414      0.13  Q         |V         |          |          |
```



9+20	0.0424	0.14	Q	
9+25	0.0434	0.14	Q	
9+30	0.0443	0.14	Q	
9+35	0.0453	0.15	Q	
9+40	0.0464	0.15	Q	
9+45	0.0474	0.15	Q	
9+50	0.0484	0.15	Q	
9+55	0.0495	0.16	Q	
10+ 0	0.0506	0.16	Q	
10+ 5	0.0516	0.14	Q	
10+10	0.0524	0.12	Q	
10+15	0.0532	0.11	Q	
10+20	0.0539	0.11	Q	
10+25	0.0547	0.11	Q	
10+30	0.0554	0.11	Q	
10+35	0.0562	0.12	Q	
10+40	0.0572	0.14	Q	
10+45	0.0581	0.14	Q	
10+50	0.0591	0.14	Q	
10+55	0.0601	0.14	Q	
11+ 0	0.0611	0.14	Q	
11+ 5	0.0620	0.14	Q	
11+10	0.0630	0.14	Q	
11+15	0.0639	0.14	Q	
11+20	0.0649	0.14	Q	
11+25	0.0658	0.14	Q	
11+30	0.0668	0.14	Q	
11+35	0.0677	0.13	Q	
11+40	0.0685	0.13	Q	
11+45	0.0694	0.12	Q	
11+50	0.0702	0.12	Q	
11+55	0.0711	0.13	Q	
12+ 0	0.0720	0.13	Q	
12+ 5	0.0730	0.14	Q	
12+10	0.0741	0.17	Q	
12+15	0.0753	0.17	Q	
12+20	0.0766	0.18	Q	
12+25	0.0778	0.18	Q	
12+30	0.0791	0.19	Q	
12+35	0.0804	0.19	Q	
12+40	0.0818	0.20	Q	
12+45	0.0831	0.20	Q	
12+50	0.0845	0.20	Q	
12+55	0.0860	0.21	Q	
13+ 0	0.0874	0.21	Q	
13+ 5	0.0889	0.22	Q	
13+10	0.0905	0.24	Q	
13+15	0.0921	0.24	Q	
13+20	0.0938	0.24	Q	
13+25	0.0955	0.24	Q	
13+30	0.0972	0.24	Q	
13+35	0.0987	0.22	Q	
13+40	0.0999	0.18	Q	
13+45	0.1011	0.17	Q	
13+50	0.1023	0.17	Q	
13+55	0.1034	0.17	Q	
14+ 0	0.1046	0.16	Q	
14+ 5	0.1058	0.17	Q	
14+10	0.1071	0.19	Q	
14+15	0.1084	0.19	Q	
14+20	0.1097	0.19	Q	
14+25	0.1110	0.19	Q	
14+30	0.1123	0.19	Q	
14+35	0.1135	0.19	Q	
14+40	0.1148	0.19	Q	
14+45	0.1161	0.19	Q	
14+50	0.1174	0.18	Q	
14+55	0.1186	0.18	Q	
15+ 0	0.1199	0.18	Q	
15+ 5	0.1211	0.18	Q	
15+10	0.1223	0.17	Q	
15+15	0.1235	0.17	Q	
15+20	0.1246	0.17	Q	
15+25	0.1258	0.17	Q	
15+30	0.1269	0.17	Q	
15+35	0.1280	0.16	Q	
15+40	0.1290	0.14	Q	
15+45	0.1300	0.14	Q	
15+50	0.1309	0.14	Q	
15+55	0.1318	0.14	Q	
16+ 0	0.1328	0.14	Q	
16+ 5	0.1335	0.10	Q	
16+10	0.1339	0.05	Q	
16+15	0.1342	0.04	Q	
16+20	0.1344	0.03	Q	
16+25	0.1346	0.03	Q	
16+30	0.1348	0.03	Q	

```
16+35       0.1350      0.03  Q         |          |          |     V    |
16+40       0.1351      0.02  Q         |          |          |     V    |
16+45       0.1353      0.02  Q         |          |          |     V    |
16+50       0.1354      0.02  Q         |          |          |     V    |
16+55       0.1356      0.02  Q         |          |          |     V    |
17+ 0       0.1357      0.02  Q         |          |          |     V    |
17+ 5       0.1359      0.03  Q         |          |          |     V    |
17+10       0.1361      0.03  Q         |          |          |     V    |
17+15       0.1364      0.03  Q         |          |          |     V    |
17+20       0.1366      0.04  Q         |          |          |     V    |
17+25       0.1369      0.04  Q         |          |          |     V    |
17+30       0.1371      0.04  Q         |          |          |      V   |
17+35       0.1374      0.04  Q         |          |          |      V   |
17+40       0.1376      0.04  Q         |          |          |      V   |
17+45       0.1379      0.04  Q         |          |          |      V   |
17+50       0.1381      0.03  Q         |          |          |      V   |
17+55       0.1383      0.03  Q         |          |          |      V   |
18+ 0       0.1385      0.03  Q         |          |          |      V   |
18+ 5       0.1387      0.03  Q         |          |          |      V   |
18+10       0.1389      0.03  Q         |          |          |      V   |
18+15       0.1391      0.03  Q         |          |          |      V   |
18+20       0.1393      0.03  Q         |          |          |      V   |
18+25       0.1395      0.03  Q         |          |          |      V   |
18+30       0.1397      0.03  Q         |          |          |      V   |
18+35       0.1399      0.03  Q         |          |          |      V   |
18+40       0.1400      0.02  Q         |          |          |      V   |
18+45       0.1402      0.02  Q         |          |          |      V   |
18+50       0.1403      0.02  Q         |          |          |      V   |
18+55       0.1404      0.02  Q         |          |          |      V   |
19+ 0       0.1405      0.02  Q         |          |          |      V   |
19+ 5       0.1406      0.02  Q         |          |          |       V  |
19+10       0.1408      0.02  Q         |          |          |       V  |
19+15       0.1409      0.02  Q         |          |          |       V  |
19+20       0.1411      0.02  Q         |          |          |       V  |
19+25       0.1413      0.03  Q         |          |          |       V  |
19+30       0.1415      0.03  Q         |          |          |       V  |
19+35       0.1416      0.03  Q         |          |          |       V  |
19+40       0.1418      0.02  Q         |          |          |       V  |
19+45       0.1420      0.02  Q         |          |          |       V  |
19+50       0.1421      0.02  Q         |          |          |       V  |
19+55       0.1422      0.02  Q         |          |          |       V  |
20+ 0       0.1423      0.02  Q         |          |          |       V  |
20+ 5       0.1424      0.02  Q         |          |          |       V  |
20+10       0.1426      0.02  Q         |          |          |       V  |
20+15       0.1427      0.02  Q         |          |          |       V  |
20+20       0.1428      0.02  Q         |          |          |       V  |
20+25       0.1430      0.02  Q         |          |          |       V  |
20+30       0.1431      0.02  Q         |          |          |       V  |
20+35       0.1433      0.02  Q         |          |          |       V  |
20+40       0.1434      0.02  Q         |          |          |       V  |
20+45       0.1436      0.02  Q         |          |          |       V  |
20+50       0.1437      0.02  Q         |          |          |       V  |
20+55       0.1438      0.02  Q         |          |          |       V  |
21+ 0       0.1439      0.02  Q         |          |          |       V  |
21+ 5       0.1441      0.02  Q         |          |          |       V  |
21+10       0.1442      0.02  Q         |          |          |       V  |
21+15       0.1443      0.02  Q         |          |          |       V  |
21+20       0.1445      0.02  Q         |          |          |        V |
21+25       0.1446      0.02  Q         |          |          |        V |
21+30       0.1447      0.02  Q         |          |          |        V |
21+35       0.1448      0.02  Q         |          |          |        V |
21+40       0.1449      0.02  Q         |          |          |        V |
21+45       0.1451      0.02  Q         |          |          |        V |
21+50       0.1452      0.02  Q         |          |          |        V |
21+55       0.1453      0.02  Q         |          |          |        V |
22+ 0       0.1454      0.02  Q         |          |          |        V |
22+ 5       0.1455      0.02  Q         |          |          |        V |
22+10       0.1457      0.02  Q         |          |          |        V |
22+15       0.1458      0.02  Q         |          |          |        V |
22+20       0.1459      0.02  Q         |          |          |        V |
22+25       0.1461      0.02  Q         |          |          |        V |
22+30       0.1462      0.02  Q         |          |          |        V |
22+35       0.1463      0.01  Q         |          |          |        V |
22+40       0.1464      0.01  Q         |          |          |        V |
22+45       0.1465      0.01  Q         |          |          |        V |
22+50       0.1466      0.01  Q         |          |          |        V |
22+55       0.1467      0.01  Q         |          |          |        V |
23+ 0       0.1468      0.01  Q         |          |          |        V |
23+ 5       0.1469      0.01  Q         |          |          |        V |
23+10       0.1469      0.01  Q         |          |          |        V |
23+15       0.1470      0.01  Q         |          |          |        V |
23+20       0.1471      0.01  Q         |          |          |        V |
23+25       0.1472      0.01  Q         |          |          |        V |
23+30       0.1473      0.01  Q         |          |          |        V |
23+35       0.1474      0.01  Q         |          |          |        V |
23+40       0.1475      0.01  Q         |          |          |        V |
23+45       0.1476      0.01  Q         |          |          |        V |
```

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  23+50       0.1477      0.01  Q         |         |         |        V|
  23+55       0.1478      0.01  Q         |         |         |        V|
  24+ 0       0.1479      0.01  Q         |         |         |        V|
  24+ 5       0.1480      0.01  Q         |         |         |        V|
  24+10       0.1480      0.00  Q         |         |         |        V|
  24+15       0.1480      0.00  Q         |         |         |        V|
  24+20       0.1480      0.00  Q         |         |         |        V|
  24+25       0.1480      0.00  Q         |         |         |         V
-------------------------------------------------------------------------
```

```
       U n i t   H y d r o g r a p h   A n a l y s i s

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       9.87(Ac.)  =      0.015 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       9.87(Ac.)  =      0.015 Sq. Mi.
Length along longest watercourse =     912.00(Ft.)
Length along longest watercourse measured to centroid =     456.00(Ft.)
Length along longest watercourse =      0.173 Mi.
Length along longest watercourse measured to centroid =      0.086 Mi.
Difference in elevation =      15.00(Ft.)
Slope along watercourse =     86.8421 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time =    0.062 Hr.
Lag time =     3.74 Min.
25% of lag time =     0.94 Min.
40% of lag time =     1.50 Min.
Unit time =     5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            0.50                 4.93

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            1.20                11.84

STORM EVENT (YEAR) =    5.00
Area Averaged 2-Year Rainfall =    0.500(In)
Area Averaged 100-Year Rainfall =    1.200(In)

Point rain (area averaged) =    0.664(In)
Areal adjustment factor =   99.99 %
Adjusted average point rain =    0.664(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     9.870           69.00          0.000
 Total Area Entered =      9.87(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-1     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
69.0  49.8      0.574     0.000        0.574       1.000      0.574
                                                 Sum (F) =   0.574
Area averaged mean soil loss (F) (In/Hr) =  0.574
Minimum soil loss rate ((In/Hr)) =  0.287
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.900
------------------------------------------------------------------------
Slope of intensity-duration curve for a 1 hour storm =0.5000
------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
------------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
```

```
        (hrs)                          Graph %            (CFS)
      ------------------------------------------------------------------------
          1   0.083        133.611         28.998              2.884
          2   0.167        267.222         48.096              4.784
          3   0.250        400.833         12.241              1.218
          4   0.333        534.444          5.441              0.541
          5   0.417        668.055          2.969              0.295
          6   0.500        801.666          2.255              0.224
                                  Sum = 100.000   Sum=          9.947
------------------------------------------------------------------------

 The following loss rate calculations reflect use of the minimum calculated loss
 rate subtracted from the Storm Rain to produce the maximum Effective Rain value

  Unit Time   Pattern   Storm Rain     Loss rate(In./Hr)     Effective
       (Hr.)  Percent   (In/Hr)         Max    |   Low        (In/Hr)
   1   0.08     4.20      0.335       (  0.574)       0.301        0.033
   2   0.17     4.30      0.343       (  0.574)       0.308        0.034
   3   0.25     5.00      0.398       (  0.574)       0.359        0.040
   4   0.33     5.00      0.398       (  0.574)       0.359        0.040
   5   0.42     5.80      0.462       (  0.574)       0.416        0.046
   6   0.50     6.50      0.518       (  0.574)       0.466        0.052
   7   0.58     7.40      0.590       (  0.574)       0.531        0.059
   8   0.67     8.60      0.685          0.574    (  0.617)        0.111
   9   0.75    12.30      0.980          0.574    (  0.882)        0.406
  10   0.83    29.10      2.318          0.574    (  2.086)        1.744
  11   0.92     6.80      0.542       (  0.574)       0.488        0.054
  12   1.00     5.00      0.398       (  0.574)       0.359        0.040
              (Loss Rate Not Used)
     Sum =     100.0                                   Sum =     2.7
       Flood volume = Effective rainfall      0.22(In)
        times area       9.9(Ac.)/[(In)/(Ft.)] =       0.2(Ac.Ft)
       Total soil loss =      0.44(In)
       Total soil loss =     0.364(Ac.Ft)
       Total rainfall =      0.66(In)
       Flood volume =        7941.4 Cubic Feet
       Total soil loss =       15844.8 Cubic Feet
       ---------------------------------------------------------------------
        Peak flow rate of this hydrograph =      9.090(CFS)
       ---------------------------------------------------------------------
       +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                           1 - 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   5   Minute intervals ((CFS))

       ---------------------------------------------------------------------
  Time(h+m) Volume Ac.Ft   Q(CFS)  0        2.5       5.0       7.5      10.0
  ------------------------------------------------------------------------
    0+ 5       0.0007      0.10  Q         |         |         |         |
    0+10       0.0024      0.26  VQ        |         |         |         |
    0+15       0.0047      0.32  |Q        |         |         |         |
    0+20       0.0072      0.37  |Q        |         |         |         |
    0+25       0.0099      0.40  |QV       |         |         |         |
    0+30       0.0131      0.46  |QV       |         |         |         |
    0+35       0.0166      0.52  | QV      |         |         |         |
    0+40       0.0215      0.71  | Q V     |         |         |         |
    0+45       0.0341      1.83  |      Q  |         |         |         |
    0+50       0.0835      7.17  |         |       V |       Q |         |
    0+55       0.1461      9.09  |         |         |         | V   Q   |
    1+ 0       0.1651      2.77  |         |Q        |         |     V   |
    1+ 5       0.1744      1.35  |    Q    |         |         |       V |
    1+10       0.1791      0.68  | Q       |         |         |         V|
    1+15       0.1821      0.43  |Q        |         |         |         V|
    1+20       0.1822      0.02  Q         |         |         |         V|
    1+25       0.1823      0.01  Q         |         |         |          V
------------------------------------------------------------------------
```

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       U n i t   H y d r o g r a p h   A n a l y s i s

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
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Length along longest watercourse measured to centroid =     456.00(Ft.)
Length along longest watercourse =      0.173 Mi.
Length along longest watercourse measured to centroid =      0.086 Mi.
Difference in elevation =      15.00(Ft.)
Slope along watercourse =     86.8421 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time =    0.062 Hr.
Lag time =     3.74 Min.
25% of lag time =     0.94 Min.
40% of lag time =     1.50 Min.
Unit time =     5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            0.80                 7.90

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            1.90                18.75

STORM EVENT (YEAR) =    5.00
Area Averaged 2-Year Rainfall =    0.800(In)
Area Averaged 100-Year Rainfall =    1.900(In)

Point rain (area averaged) =    1.058(In)
Areal adjustment factor =  100.00 %
Adjusted average point rain =    1.058(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     9.870           69.00          0.000
 Total Area Entered =      9.87(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-1     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
69.0  49.8      0.574     0.000        0.574       1.000      0.574
                                                 Sum (F) =   0.574
Area averaged mean soil loss (F) (In/Hr) =  0.574
Minimum soil loss rate ((In/Hr)) =  0.287
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.900
------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
-------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
    (hrs)                          Graph %           (CFS)
------------------------------------------------------------------------
```

1	0.083	133.611	28.998	2.884
2	0.167	267.222	48.096	4.784
3	0.250	400.833	12.241	1.218
4	0.333	534.444	5.441	0.541
5	0.417	668.055	2.969	0.295
6	0.500	801.666	2.255	0.224
			Sum = 100.000	Sum= 9.947

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	1.30	0.165	(0.574)	0.148	0.016
2	0.17	1.30	0.165	(0.574)	0.148	0.016
3	0.25	1.10	0.140	(0.574)	0.126	0.014
4	0.33	1.50	0.190	(0.574)	0.171	0.019
5	0.42	1.50	0.190	(0.574)	0.171	0.019
6	0.50	1.80	0.228	(0.574)	0.206	0.023
7	0.58	1.50	0.190	(0.574)	0.171	0.019
8	0.67	1.80	0.228	(0.574)	0.206	0.023
9	0.75	1.80	0.228	(0.574)	0.206	0.023
10	0.83	1.50	0.190	(0.574)	0.171	0.019
11	0.92	1.60	0.203	(0.574)	0.183	0.020
12	1.00	1.80	0.228	(0.574)	0.206	0.023
13	1.08	2.20	0.279	(0.574)	0.251	0.028
14	1.17	2.20	0.279	(0.574)	0.251	0.028
15	1.25	2.20	0.279	(0.574)	0.251	0.028
16	1.33	2.00	0.254	(0.574)	0.228	0.025
17	1.42	2.60	0.330	(0.574)	0.297	0.033
18	1.50	2.70	0.343	(0.574)	0.308	0.034
19	1.58	2.40	0.305	(0.574)	0.274	0.030
20	1.67	2.70	0.343	(0.574)	0.308	0.034
21	1.75	3.30	0.419	(0.574)	0.377	0.042
22	1.83	3.10	0.393	(0.574)	0.354	0.039
23	1.92	2.90	0.368	(0.574)	0.331	0.037
24	2.00	3.00	0.381	(0.574)	0.343	0.038
25	2.08	3.10	0.393	(0.574)	0.354	0.039
26	2.17	4.20	0.533	(0.574)	0.480	0.053
27	2.25	5.00	0.635	(0.574)	0.571	0.063
28	2.33	3.50	0.444	(0.574)	0.400	0.044
29	2.42	6.80	0.863	0.574	(0.777)	0.289
30	2.50	7.30	0.926	0.574	(0.834)	0.352
31	2.58	8.20	1.041	0.574	(0.937)	0.467
32	2.67	5.90	0.749	0.574	(0.674)	0.175
33	2.75	2.00	0.254	(0.574)	0.228	0.025
34	2.83	1.80	0.228	(0.574)	0.206	0.023
35	2.92	1.80	0.228	(0.574)	0.206	0.023
36	3.00	0.60	0.076	(0.574)	0.069	0.008
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	2.2

Flood volume = Effective rainfall 0.18(In)
times area 9.9(Ac.)/[(In)/(Ft.)] = 0.2(Ac.Ft)
Total soil loss = 0.87(In)
Total soil loss = 0.719(Ac.Ft)
Total rainfall = 1.06(In)
Flood volume = 6551.5 Cubic Feet
Total soil loss = 31340.3 Cubic Feet

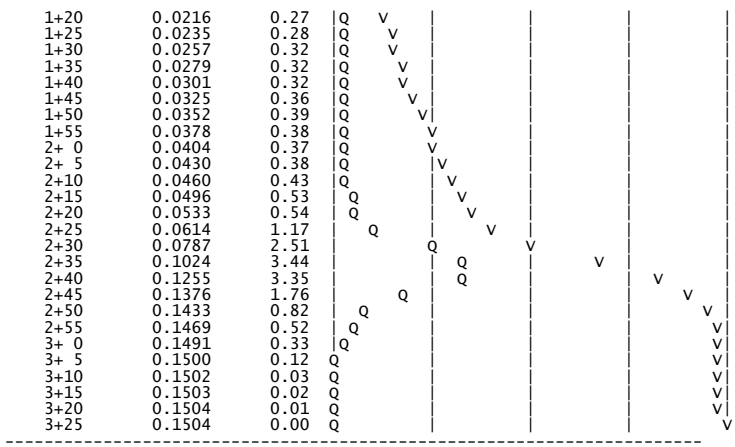
Peak flow rate of this hydrograph = 3.441(CFS)

++

3 - 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 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0003	0.05	Q	|	|	|	|
0+10	0.0012	0.13	Q	|	|	|	|
0+15	0.0022	0.14	Q	|	|	|	|
0+20	0.0032	0.15	Q	|	|	|	|
0+25	0.0044	0.18	QV	|	|	|	|
0+30	0.0058	0.20	QV	|	|	|	|
0+35	0.0072	0.21	QV	|	|	|	|
0+40	0.0086	0.20	Q V	|	|	|	|
0+45	0.0101	0.22	Q V	|	|	|	|
0+50	0.0116	0.21	Q V	|	|	|	|
0+55	0.0130	0.20	Q V	|	|	|	|
1+ 0	0.0144	0.21	Q V	|	|	|	|
1+ 5	0.0160	0.24	Q V	|	|	|	|
1+10	0.0179	0.26	|Q V	|	|	|	|
1+15	0.0197	0.27	|Q V	|	|	|	|


1+20 0.0216 0.27
1+25 0.0235 0.28
1+30 0.0257 0.32
1+35 0.0279 0.32
1+40 0.0301 0.32
1+45 0.0325 0.36
1+50 0.0352 0.39
1+55 0.0378 0.38
2+ 0 0.0404 0.37
2+ 5 0.0430 0.38
2+10 0.0460 0.43
2+15 0.0496 0.53
2+20 0.0533 0.54
2+25 0.0614 1.17
2+30 0.0787 2.51
2+35 0.1024 3.44
2+40 0.1255 3.35
2+45 0.1376 1.76
2+50 0.1433 0.82
2+55 0.1469 0.52
3+ 0 0.1491 0.33
3+ 5 0.1500 0.12
3+10 0.1502 0.03
3+15 0.1503 0.02
3+20 0.1504 0.01
3+25 0.1504 0.00

```
       U n i t   H y d r o g r a p h   A n a l y s i s

       Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2008, Version 8.1
              Study date  03/01/22 File: ex1565.out

++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
------------------------------------------------------------------------------

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       9.87(Ac.)  =      0.015 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       9.87(Ac.)  =      0.015 Sq. Mi.
Length along longest watercourse =     912.00(Ft.)
Length along longest watercourse measured to centroid =     456.00(Ft.)
Length along longest watercourse =      0.173 Mi.
Length along longest watercourse measured to centroid =      0.086 Mi.
Difference in elevation =      15.00(Ft.)
Slope along watercourse =     86.8421 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time =    0.062 Hr.
Lag time =     3.74 Min.
25% of lag time =     0.94 Min.
40% of lag time =     1.50 Min.
Unit time =     5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            1.20                11.84

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            2.50                24.67

STORM EVENT (YEAR) =    5.00
Area Averaged 2-Year Rainfall =    1.200(In)
Area Averaged 100-Year Rainfall =    2.500(In)

Point rain (area averaged) =    1.504(In)
Areal adjustment factor =  100.00 %
Adjusted average point rain =    1.504(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     9.870           69.00          0.000
 Total Area Entered =      9.87(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-1     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
69.0  49.8      0.574     0.000        0.574       1.000      0.574
                                                 Sum (F) =   0.574
Area averaged mean soil loss (F) (In/Hr) =  0.574
Minimum soil loss rate ((In/Hr)) =  0.287
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.900
------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
    (hrs)                          Graph %           (CFS)
------------------------------------------------------------------------
```

1	0.083	133.611	28.998	2.884
2	0.167	267.222	48.096	4.784
3	0.250	400.833	12.241	1.218
4	0.333	534.444	5.441	0.541
5	0.417	668.055	2.969	0.295
6	0.500	801.666	2.255	0.224
			Sum = 100.000 Sum=	9.947

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.090	(0.574)	0.081	0.009
2	0.17	0.60	0.108	(0.574)	0.097	0.011
3	0.25	0.60	0.108	(0.574)	0.097	0.011
4	0.33	0.60	0.108	(0.574)	0.097	0.011
5	0.42	0.60	0.108	(0.574)	0.097	0.011
6	0.50	0.70	0.126	(0.574)	0.114	0.013
7	0.58	0.70	0.126	(0.574)	0.114	0.013
8	0.67	0.70	0.126	(0.574)	0.114	0.013
9	0.75	0.70	0.126	(0.574)	0.114	0.013
10	0.83	0.70	0.126	(0.574)	0.114	0.013
11	0.92	0.70	0.126	(0.574)	0.114	0.013
12	1.00	0.80	0.144	(0.574)	0.130	0.014
13	1.08	0.80	0.144	(0.574)	0.130	0.014
14	1.17	0.80	0.144	(0.574)	0.130	0.014
15	1.25	0.80	0.144	(0.574)	0.130	0.014
16	1.33	0.80	0.144	(0.574)	0.130	0.014
17	1.42	0.80	0.144	(0.574)	0.130	0.014
18	1.50	0.80	0.144	(0.574)	0.130	0.014
19	1.58	0.80	0.144	(0.574)	0.130	0.014
20	1.67	0.80	0.144	(0.574)	0.130	0.014
21	1.75	0.80	0.144	(0.574)	0.130	0.014
22	1.83	0.80	0.144	(0.574)	0.130	0.014
23	1.92	0.80	0.144	(0.574)	0.130	0.014
24	2.00	0.90	0.162	(0.574)	0.146	0.016
25	2.08	0.80	0.144	(0.574)	0.130	0.014
26	2.17	0.90	0.162	(0.574)	0.146	0.016
27	2.25	0.90	0.162	(0.574)	0.146	0.016
28	2.33	0.90	0.162	(0.574)	0.146	0.016
29	2.42	0.90	0.162	(0.574)	0.146	0.016
30	2.50	0.90	0.162	(0.574)	0.146	0.016
31	2.58	0.90	0.162	(0.574)	0.146	0.016
32	2.67	0.90	0.162	(0.574)	0.146	0.016
33	2.75	1.00	0.181	(0.574)	0.162	0.018
34	2.83	1.00	0.181	(0.574)	0.162	0.018
35	2.92	1.00	0.181	(0.574)	0.162	0.018
36	3.00	1.00	0.181	(0.574)	0.162	0.018
37	3.08	1.00	0.181	(0.574)	0.162	0.018
38	3.17	1.10	0.199	(0.574)	0.179	0.020
39	3.25	1.10	0.199	(0.574)	0.179	0.020
40	3.33	1.10	0.199	(0.574)	0.179	0.020
41	3.42	1.20	0.217	(0.574)	0.195	0.022
42	3.50	1.30	0.235	(0.574)	0.211	0.023
43	3.58	1.40	0.253	(0.574)	0.227	0.025
44	3.67	1.40	0.253	(0.574)	0.227	0.025
45	3.75	1.50	0.271	(0.574)	0.244	0.027
46	3.83	1.50	0.271	(0.574)	0.244	0.027
47	3.92	1.60	0.289	(0.574)	0.260	0.029
48	4.00	1.60	0.289	(0.574)	0.260	0.029
49	4.08	1.70	0.307	(0.574)	0.276	0.031
50	4.17	1.80	0.325	(0.574)	0.292	0.032
51	4.25	1.90	0.343	(0.574)	0.309	0.034
52	4.33	2.00	0.361	(0.574)	0.325	0.036
53	4.42	2.10	0.379	(0.574)	0.341	0.038
54	4.50	2.10	0.379	(0.574)	0.341	0.038
55	4.58	2.20	0.397	(0.574)	0.357	0.040
56	4.67	2.30	0.415	(0.574)	0.374	0.042
57	4.75	2.40	0.433	(0.574)	0.390	0.043
58	4.83	2.40	0.433	(0.574)	0.390	0.043
59	4.92	2.50	0.451	(0.574)	0.406	0.045
60	5.00	2.60	0.469	(0.574)	0.422	0.047
61	5.08	3.10	0.560	(0.574)	0.504	0.056
62	5.17	3.60	0.650	0.574	(0.585)	0.076
63	5.25	3.90	0.704	0.574	(0.634)	0.130
64	5.33	4.20	0.758	0.574	(0.682)	0.184
65	5.42	4.70	0.849	0.574	(0.764)	0.275
66	5.50	5.60	1.011	0.574	(0.910)	0.437
67	5.58	1.90	0.343	(0.574)	0.309	0.034
68	5.67	0.90	0.162	(0.574)	0.146	0.016
69	5.75	0.60	0.108	(0.574)	0.097	0.011
70	5.83	0.50	0.090	(0.574)	0.081	0.009
71	5.92	0.30	0.054	(0.574)	0.049	0.005
72	6.00	0.20	0.036	(0.574)	0.032	0.004

```
            (Loss Rate Not Used)
 Sum =     100.0                                  Sum =     2.5
    Flood volume = Effective rainfall      0.21(In)
     times area       9.9(Ac.)/[(In)/(Ft.)] =       0.2(Ac.Ft)
    Total soil loss =      1.30(In)
    Total soil loss =     1.065(Ac.Ft)
    Total rainfall =      1.50(In)
    Flood volume =        7494.3 Cubic Feet
    Total soil loss =       46407.0 Cubic Feet
    ---------------------------------------------------------------------
     Peak flow rate of this hydrograph =      2.905(CFS)
    ---------------------------------------------------------------------
    +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                          6 - 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   5   Minute intervals ((CFS))

    ---------------------------------------------------------------------
Time(h+m) Volume Ac.Ft   Q(CFS)  0        2.5       5.0       7.5      10.0
-------------------------------------------------------------------------
  0+ 5       0.0002      0.03  Q          |         |         |         |
  0+10       0.0007      0.07  Q          |         |         |         |
  0+15       0.0013      0.09  Q          |         |         |         |
  0+20       0.0020      0.10  Q          |         |         |         |
  0+25       0.0028      0.10  Q          |         |         |         |
  0+30       0.0035      0.11  Q          |         |         |         |
  0+35       0.0044      0.12  QV         |         |         |         |
  0+40       0.0052      0.12  QV         |         |         |         |
  0+45       0.0061      0.12  QV         |         |         |         |
  0+50       0.0069      0.13  QV         |         |         |         |
  0+55       0.0078      0.13  QV         |         |         |         |
  1+ 0       0.0087      0.13  Q V        |         |         |         |
  1+ 5       0.0097      0.14  Q V        |         |         |         |
  1+10       0.0107      0.14  Q V        |         |         |         |
  1+15       0.0116      0.14  Q V        |         |         |         |
  1+20       0.0126      0.14  Q V        |         |         |         |
  1+25       0.0136      0.14  Q  V       |         |         |         |
  1+30       0.0146      0.14  Q  V       |         |         |         |
  1+35       0.0156      0.14  Q  V       |         |         |         |
  1+40       0.0166      0.14  Q  V       |         |         |         |
  1+45       0.0176      0.14  Q   V      |         |         |         |
  1+50       0.0186      0.14  Q   V      |         |         |         |
  1+55       0.0196      0.14  Q   V      |         |         |         |
  2+ 0       0.0206      0.15  Q   V      |         |         |         |
  2+ 5       0.0216      0.15  Q    V     |         |         |         |
  2+10       0.0227      0.15  Q    V     |         |         |         |
  2+15       0.0238      0.16  Q    V     |         |         |         |
  2+20       0.0249      0.16  Q    V     |         |         |         |
  2+25       0.0260      0.16  Q     V    |         |         |         |
  2+30       0.0271      0.16  Q     V    |         |         |         |
  2+35       0.0282      0.16  Q     V    |         |         |         |
  2+40       0.0293      0.16  Q     V    |         |         |         |
  2+45       0.0305      0.17  Q      V   |         |         |         |
  2+50       0.0317      0.18  Q      V   |         |         |         |
  2+55       0.0329      0.18  Q      V   |         |         |         |
  3+ 0       0.0341      0.18  Q      V   |         |         |         |
  3+ 5       0.0354      0.18  Q       V  |         |         |         |
  3+10       0.0366      0.18  Q       V  |         |         |         |
  3+15       0.0380      0.19  Q       V  |         |         |         |
  3+20       0.0393      0.20  Q        V |         |         |         |
  3+25       0.0407      0.20  Q        V |         |         |         |
  3+30       0.0422      0.22  Q        V |         |         |         |
  3+35       0.0438      0.23  Q         V|         |         |         |
  3+40       0.0455      0.24  Q         V|         |         |         |
  3+45       0.0472      0.25  |Q        V|         |         |         |
  3+50       0.0491      0.26  |Q        |V         |         |         |
  3+55       0.0509      0.27  |Q        |V         |         |         |
  4+ 0       0.0529      0.28  |Q        | V        |         |         |
  4+ 5       0.0549      0.29  |Q        | V        |         |         |
  4+10       0.0570      0.31  |Q        |  V       |         |         |
  4+15       0.0592      0.32  |Q        |  V       |         |         |
  4+20       0.0615      0.34  |Q        |   V      |         |         |
  4+25       0.0640      0.36  |Q        |   V      |         |         |
  4+30       0.0665      0.37  |Q        |    V     |         |         |
  4+35       0.0692      0.38  |Q        |     V    |         |         |
  4+40       0.0719      0.40  |Q        |     V    |         |         |
  4+45       0.0747      0.41  |Q        |      V   |         |         |
  4+50       0.0776      0.42  |Q        |       V  |         |         |
  4+55       0.0806      0.43  |Q        |       V  |         |         |
  5+ 0       0.0837      0.45  |Q        |        V |         |         |
  5+ 5       0.0871      0.49  |Q        |         V|         |         |
  5+10       0.0911      0.59  | Q       |          |V        |         |
  5+15       0.0970      0.86  |  Q      |          | V       |         |
  5+20       0.1060      1.30  |    Q    |          |   V     |         |
  5+25       0.1191      1.90  |      Q  |          |     V   |         |
  5+30       0.1391      2.91  |         |Q         |         | V       |
```

```
    5+35       0.1576      2.68  |         Q         |         |      V    |
    5+40       0.1643      0.98  |   Q       |       |         |        V  |
    5+45       0.1678      0.51  |  Q        |       |         |         V |
    5+50       0.1699      0.31  |Q          |       |         |         V |
    5+55       0.1712      0.19  Q           |       |         |         V |
    6+ 0       0.1717      0.07  Q           |       |         |         V |
    6+ 5       0.1719      0.04  Q           |       |         |         V |
    6+10       0.1720      0.01  Q           |       |         |         V |
    6+15       0.1720      0.01  Q           |       |         |         V |
    6+20       0.1720      0.00  Q           |       |         |         V |
    6+25       0.1720      0.00  Q           |       |         |          V
-------------------------------------------------------------------------
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       U n i t   H y d r o g r a p h   A n a l y s i s

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              Study date  03/01/22 File: ex15245.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       9.87(Ac.)  =      0.015 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       9.87(Ac.)  =      0.015 Sq. Mi.
Length along longest watercourse =     912.00(Ft.)
Length along longest watercourse measured to centroid =     456.00(Ft.)
Length along longest watercourse =      0.173 Mi.
Length along longest watercourse measured to centroid =      0.086 Mi.
Difference in elevation =      15.00(Ft.)
Slope along watercourse =     86.8421 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time =    0.062 Hr.
Lag time =     3.74 Min.
25% of lag time =     0.94 Min.
40% of lag time =     1.50 Min.
Unit time =     5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            1.80                 17.77

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            4.50                 44.41

STORM EVENT (YEAR) =    5.00
Area Averaged 2-Year Rainfall =    1.800(In)
Area Averaged 100-Year Rainfall =    4.500(In)

Point rain (area averaged) =    2.432(In)
Areal adjustment factor =  100.00 %
Adjusted average point rain =    2.432(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     9.870           69.00          0.000
 Total Area Entered =      9.87(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-1     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
69.0  49.8      0.574     0.000        0.574       1.000      0.574
                                                 Sum (F) =   0.574
Area averaged mean soil loss (F) (In/Hr) =  0.574
Minimum soil loss rate ((In/Hr)) =  0.287
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.900
------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
------------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
    (hrs)                          Graph %           (CFS)
------------------------------------------------------------------------
```

1	0.083	133.611	28.998		2.884
2	0.167	267.222	48.096		4.784
3	0.250	400.833	12.241		1.218
4	0.333	534.444	5.441		0.541
5	0.417	668.055	2.969		0.295
6	0.500	801.666	2.255		0.224
			Sum = 100.000	Sum=	9.947

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.019	(1.017)	0.018	0.002
2	0.17	0.07	0.019	(1.014)	0.018	0.002
3	0.25	0.07	0.019	(1.010)	0.018	0.002
4	0.33	0.10	0.029	(1.006)	0.026	0.003
5	0.42	0.10	0.029	(1.002)	0.026	0.003
6	0.50	0.10	0.029	(0.998)	0.026	0.003
7	0.58	0.10	0.029	(0.994)	0.026	0.003
8	0.67	0.10	0.029	(0.990)	0.026	0.003
9	0.75	0.10	0.029	(0.986)	0.026	0.003
10	0.83	0.13	0.039	(0.982)	0.035	0.004
11	0.92	0.13	0.039	(0.978)	0.035	0.004
12	1.00	0.13	0.039	(0.975)	0.035	0.004
13	1.08	0.10	0.029	(0.971)	0.026	0.003
14	1.17	0.10	0.029	(0.967)	0.026	0.003
15	1.25	0.10	0.029	(0.963)	0.026	0.003
16	1.33	0.10	0.029	(0.959)	0.026	0.003
17	1.42	0.10	0.029	(0.955)	0.026	0.003
18	1.50	0.10	0.029	(0.952)	0.026	0.003
19	1.58	0.10	0.029	(0.948)	0.026	0.003
20	1.67	0.10	0.029	(0.944)	0.026	0.003
21	1.75	0.10	0.029	(0.940)	0.026	0.003
22	1.83	0.13	0.039	(0.936)	0.035	0.004
23	1.92	0.13	0.039	(0.933)	0.035	0.004
24	2.00	0.13	0.039	(0.929)	0.035	0.004
25	2.08	0.13	0.039	(0.925)	0.035	0.004
26	2.17	0.13	0.039	(0.921)	0.035	0.004
27	2.25	0.13	0.039	(0.918)	0.035	0.004
28	2.33	0.13	0.039	(0.914)	0.035	0.004
29	2.42	0.13	0.039	(0.910)	0.035	0.004
30	2.50	0.13	0.039	(0.906)	0.035	0.004
31	2.58	0.17	0.049	(0.903)	0.044	0.005
32	2.67	0.17	0.049	(0.899)	0.044	0.005
33	2.75	0.17	0.049	(0.895)	0.044	0.005
34	2.83	0.17	0.049	(0.892)	0.044	0.005
35	2.92	0.17	0.049	(0.888)	0.044	0.005
36	3.00	0.17	0.049	(0.884)	0.044	0.005
37	3.08	0.17	0.049	(0.881)	0.044	0.005
38	3.17	0.17	0.049	(0.877)	0.044	0.005
39	3.25	0.17	0.049	(0.873)	0.044	0.005
40	3.33	0.17	0.049	(0.870)	0.044	0.005
41	3.42	0.17	0.049	(0.866)	0.044	0.005
42	3.50	0.17	0.049	(0.862)	0.044	0.005
43	3.58	0.17	0.049	(0.859)	0.044	0.005
44	3.67	0.17	0.049	(0.855)	0.044	0.005
45	3.75	0.17	0.049	(0.852)	0.044	0.005
46	3.83	0.20	0.058	(0.848)	0.053	0.006
47	3.92	0.20	0.058	(0.844)	0.053	0.006
48	4.00	0.20	0.058	(0.841)	0.053	0.006
49	4.08	0.20	0.058	(0.837)	0.053	0.006
50	4.17	0.20	0.058	(0.834)	0.053	0.006
51	4.25	0.20	0.058	(0.830)	0.053	0.006
52	4.33	0.23	0.068	(0.827)	0.061	0.007
53	4.42	0.23	0.068	(0.823)	0.061	0.007
54	4.50	0.23	0.068	(0.820)	0.061	0.007
55	4.58	0.23	0.068	(0.816)	0.061	0.007
56	4.67	0.23	0.068	(0.813)	0.061	0.007
57	4.75	0.23	0.068	(0.809)	0.061	0.007
58	4.83	0.27	0.078	(0.806)	0.070	0.008
59	4.92	0.27	0.078	(0.802)	0.070	0.008
60	5.00	0.27	0.078	(0.799)	0.070	0.008
61	5.08	0.20	0.058	(0.795)	0.053	0.006
62	5.17	0.20	0.058	(0.792)	0.053	0.006
63	5.25	0.20	0.058	(0.788)	0.053	0.006
64	5.33	0.23	0.068	(0.785)	0.061	0.007
65	5.42	0.23	0.068	(0.781)	0.061	0.007
66	5.50	0.23	0.068	(0.778)	0.061	0.007
67	5.58	0.27	0.078	(0.775)	0.070	0.008
68	5.67	0.27	0.078	(0.771)	0.070	0.008
69	5.75	0.27	0.078	(0.768)	0.070	0.008
70	5.83	0.27	0.078	(0.764)	0.070	0.008
71	5.92	0.27	0.078	(0.761)	0.070	0.008
72	6.00	0.27	0.078	(0.758)	0.070	0.008

73	6.08	0.30	0.088	(0.754)	0.079	0.009
74	6.17	0.30	0.088	(0.751)	0.079	0.009
75	6.25	0.30	0.088	(0.748)	0.079	0.009
76	6.33	0.30	0.088	(0.744)	0.079	0.009
77	6.42	0.30	0.088	(0.741)	0.079	0.009
78	6.50	0.30	0.088	(0.738)	0.079	0.009
79	6.58	0.33	0.097	(0.734)	0.088	0.010
80	6.67	0.33	0.097	(0.731)	0.088	0.010
81	6.75	0.33	0.097	(0.728)	0.088	0.010
82	6.83	0.33	0.097	(0.724)	0.088	0.010
83	6.92	0.33	0.097	(0.721)	0.088	0.010
84	7.00	0.33	0.097	(0.718)	0.088	0.010
85	7.08	0.33	0.097	(0.715)	0.088	0.010
86	7.17	0.33	0.097	(0.711)	0.088	0.010
87	7.25	0.33	0.097	(0.708)	0.088	0.010
88	7.33	0.37	0.107	(0.705)	0.096	0.011
89	7.42	0.37	0.107	(0.702)	0.096	0.011
90	7.50	0.37	0.107	(0.698)	0.096	0.011
91	7.58	0.40	0.117	(0.695)	0.105	0.012
92	7.67	0.40	0.117	(0.692)	0.105	0.012
93	7.75	0.40	0.117	(0.689)	0.105	0.012
94	7.83	0.43	0.126	(0.686)	0.114	0.013
95	7.92	0.43	0.126	(0.682)	0.114	0.013
96	8.00	0.43	0.126	(0.679)	0.114	0.013
97	8.08	0.50	0.146	(0.676)	0.131	0.015
98	8.17	0.50	0.146	(0.673)	0.131	0.015
99	8.25	0.50	0.146	(0.670)	0.131	0.015
100	8.33	0.50	0.146	(0.667)	0.131	0.015
101	8.42	0.50	0.146	(0.664)	0.131	0.015
102	8.50	0.50	0.146	(0.660)	0.131	0.015
103	8.58	0.53	0.156	(0.657)	0.140	0.016
104	8.67	0.53	0.156	(0.654)	0.140	0.016
105	8.75	0.53	0.156	(0.651)	0.140	0.016
106	8.83	0.57	0.165	(0.648)	0.149	0.017
107	8.92	0.57	0.165	(0.645)	0.149	0.017
108	9.00	0.57	0.165	(0.642)	0.149	0.017
109	9.08	0.63	0.185	(0.639)	0.166	0.018
110	9.17	0.63	0.185	(0.636)	0.166	0.018
111	9.25	0.63	0.185	(0.633)	0.166	0.018
112	9.33	0.67	0.195	(0.630)	0.175	0.019
113	9.42	0.67	0.195	(0.627)	0.175	0.019
114	9.50	0.67	0.195	(0.624)	0.175	0.019
115	9.58	0.70	0.204	(0.621)	0.184	0.020
116	9.67	0.70	0.204	(0.618)	0.184	0.020
117	9.75	0.70	0.204	(0.615)	0.184	0.020
118	9.83	0.73	0.214	(0.612)	0.193	0.021
119	9.92	0.73	0.214	(0.609)	0.193	0.021
120	10.00	0.73	0.214	(0.606)	0.193	0.021
121	10.08	0.50	0.146	(0.603)	0.131	0.015
122	10.17	0.50	0.146	(0.600)	0.131	0.015
123	10.25	0.50	0.146	(0.597)	0.131	0.015
124	10.33	0.50	0.146	(0.594)	0.131	0.015
125	10.42	0.50	0.146	(0.592)	0.131	0.015
126	10.50	0.50	0.146	(0.589)	0.131	0.015
127	10.58	0.67	0.195	(0.586)	0.175	0.019
128	10.67	0.67	0.195	(0.583)	0.175	0.019
129	10.75	0.67	0.195	(0.580)	0.175	0.019
130	10.83	0.67	0.195	(0.577)	0.175	0.019
131	10.92	0.67	0.195	(0.574)	0.175	0.019
132	11.00	0.67	0.195	(0.572)	0.175	0.019
133	11.08	0.63	0.185	(0.569)	0.166	0.018
134	11.17	0.63	0.185	(0.566)	0.166	0.018
135	11.25	0.63	0.185	(0.563)	0.166	0.018
136	11.33	0.63	0.185	(0.560)	0.166	0.018
137	11.42	0.63	0.185	(0.558)	0.166	0.018
138	11.50	0.63	0.185	(0.555)	0.166	0.018
139	11.58	0.57	0.165	(0.552)	0.149	0.017
140	11.67	0.57	0.165	(0.549)	0.149	0.017
141	11.75	0.57	0.165	(0.547)	0.149	0.017
142	11.83	0.60	0.175	(0.544)	0.158	0.018
143	11.92	0.60	0.175	(0.541)	0.158	0.018
144	12.00	0.60	0.175	(0.538)	0.158	0.018
145	12.08	0.83	0.243	(0.536)	0.219	0.024
146	12.17	0.83	0.243	(0.533)	0.219	0.024
147	12.25	0.83	0.243	(0.530)	0.219	0.024
148	12.33	0.87	0.253	(0.528)	0.228	0.025
149	12.42	0.87	0.253	(0.525)	0.228	0.025
150	12.50	0.87	0.253	(0.522)	0.228	0.025
151	12.58	0.93	0.272	(0.520)	0.245	0.027
152	12.67	0.93	0.272	(0.517)	0.245	0.027
153	12.75	0.93	0.272	(0.515)	0.245	0.027
154	12.83	0.97	0.282	(0.512)	0.254	0.028
155	12.92	0.97	0.282	(0.509)	0.254	0.028
156	13.00	0.97	0.282	(0.507)	0.254	0.028
157	13.08	1.13	0.331	(0.504)	0.298	0.033
158	13.17	1.13	0.331	(0.502)	0.298	0.033
159	13.25	1.13	0.331	(0.499)	0.298	0.033

160	13.33	1.13	0.331	(0.497)	0.298	0.033
161	13.42	1.13	0.331	(0.494)	0.298	0.033
162	13.50	1.13	0.331	(0.492)	0.298	0.033
163	13.58	0.77	0.224	(0.489)	0.201	0.022
164	13.67	0.77	0.224	(0.487)	0.201	0.022
165	13.75	0.77	0.224	(0.484)	0.201	0.022
166	13.83	0.77	0.224	(0.482)	0.201	0.022
167	13.92	0.77	0.224	(0.479)	0.201	0.022
168	14.00	0.77	0.224	(0.477)	0.201	0.022
169	14.08	0.90	0.263	(0.474)	0.236	0.026
170	14.17	0.90	0.263	(0.472)	0.236	0.026
171	14.25	0.90	0.263	(0.469)	0.236	0.026
172	14.33	0.87	0.253	(0.467)	0.228	0.025
173	14.42	0.87	0.253	(0.465)	0.228	0.025
174	14.50	0.87	0.253	(0.462)	0.228	0.025
175	14.58	0.87	0.253	(0.460)	0.228	0.025
176	14.67	0.87	0.253	(0.458)	0.228	0.025
177	14.75	0.87	0.253	(0.455)	0.228	0.025
178	14.83	0.83	0.243	(0.453)	0.219	0.024
179	14.92	0.83	0.243	(0.451)	0.219	0.024
180	15.00	0.83	0.243	(0.448)	0.219	0.024
181	15.08	0.80	0.234	(0.446)	0.210	0.023
182	15.17	0.80	0.234	(0.444)	0.210	0.023
183	15.25	0.80	0.234	(0.441)	0.210	0.023
184	15.33	0.77	0.224	(0.439)	0.201	0.022
185	15.42	0.77	0.224	(0.437)	0.201	0.022
186	15.50	0.77	0.224	(0.435)	0.201	0.022
187	15.58	0.63	0.185	(0.432)	0.166	0.018
188	15.67	0.63	0.185	(0.430)	0.166	0.018
189	15.75	0.63	0.185	(0.428)	0.166	0.018
190	15.83	0.63	0.185	(0.426)	0.166	0.018
191	15.92	0.63	0.185	(0.424)	0.166	0.018
192	16.00	0.63	0.185	(0.421)	0.166	0.018
193	16.08	0.13	0.039	(0.419)	0.035	0.004
194	16.17	0.13	0.039	(0.417)	0.035	0.004
195	16.25	0.13	0.039	(0.415)	0.035	0.004
196	16.33	0.13	0.039	(0.413)	0.035	0.004
197	16.42	0.13	0.039	(0.411)	0.035	0.004
198	16.50	0.13	0.039	(0.409)	0.035	0.004
199	16.58	0.10	0.029	(0.407)	0.026	0.003
200	16.67	0.10	0.029	(0.405)	0.026	0.003
201	16.75	0.10	0.029	(0.403)	0.026	0.003
202	16.83	0.10	0.029	(0.401)	0.026	0.003
203	16.92	0.10	0.029	(0.398)	0.026	0.003
204	17.00	0.10	0.029	(0.396)	0.026	0.003
205	17.08	0.17	0.049	(0.394)	0.044	0.005
206	17.17	0.17	0.049	(0.392)	0.044	0.005
207	17.25	0.17	0.049	(0.390)	0.044	0.005
208	17.33	0.17	0.049	(0.389)	0.044	0.005
209	17.42	0.17	0.049	(0.387)	0.044	0.005
210	17.50	0.17	0.049	(0.385)	0.044	0.005
211	17.58	0.17	0.049	(0.383)	0.044	0.005
212	17.67	0.17	0.049	(0.381)	0.044	0.005
213	17.75	0.17	0.049	(0.379)	0.044	0.005
214	17.83	0.13	0.039	(0.377)	0.035	0.004
215	17.92	0.13	0.039	(0.375)	0.035	0.004
216	18.00	0.13	0.039	(0.373)	0.035	0.004
217	18.08	0.13	0.039	(0.371)	0.035	0.004
218	18.17	0.13	0.039	(0.370)	0.035	0.004
219	18.25	0.13	0.039	(0.368)	0.035	0.004
220	18.33	0.13	0.039	(0.366)	0.035	0.004
221	18.42	0.13	0.039	(0.364)	0.035	0.004
222	18.50	0.13	0.039	(0.363)	0.035	0.004
223	18.58	0.10	0.029	(0.361)	0.026	0.003
224	18.67	0.10	0.029	(0.359)	0.026	0.003
225	18.75	0.10	0.029	(0.357)	0.026	0.003
226	18.83	0.07	0.019	(0.356)	0.018	0.002
227	18.92	0.07	0.019	(0.354)	0.018	0.002
228	19.00	0.07	0.019	(0.352)	0.018	0.002
229	19.08	0.10	0.029	(0.351)	0.026	0.003
230	19.17	0.10	0.029	(0.349)	0.026	0.003
231	19.25	0.10	0.029	(0.347)	0.026	0.003
232	19.33	0.13	0.039	(0.346)	0.035	0.004
233	19.42	0.13	0.039	(0.344)	0.035	0.004
234	19.50	0.13	0.039	(0.342)	0.035	0.004
235	19.58	0.10	0.029	(0.341)	0.026	0.003
236	19.67	0.10	0.029	(0.339)	0.026	0.003
237	19.75	0.10	0.029	(0.338)	0.026	0.003
238	19.83	0.07	0.019	(0.336)	0.018	0.002
239	19.92	0.07	0.019	(0.335)	0.018	0.002
240	20.00	0.07	0.019	(0.333)	0.018	0.002
241	20.08	0.10	0.029	(0.332)	0.026	0.003
242	20.17	0.10	0.029	(0.330)	0.026	0.003
243	20.25	0.10	0.029	(0.329)	0.026	0.003
244	20.33	0.10	0.029	(0.328)	0.026	0.003
245	20.42	0.10	0.029	(0.326)	0.026	0.003
246	20.50	0.10	0.029	(0.325)	0.026	0.003

247	20.58	0.10	0.029	(	0.323)	0.026	0.003
248	20.67	0.10	0.029	(	0.322)	0.026	0.003
249	20.75	0.10	0.029	(	0.321)	0.026	0.003
250	20.83	0.07	0.019	(	0.319)	0.018	0.002
251	20.92	0.07	0.019	(	0.318)	0.018	0.002
252	21.00	0.07	0.019	(	0.317)	0.018	0.002
253	21.08	0.10	0.029	(	0.316)	0.026	0.003
254	21.17	0.10	0.029	(	0.314)	0.026	0.003
255	21.25	0.10	0.029	(	0.313)	0.026	0.003
256	21.33	0.07	0.019	(	0.312)	0.018	0.002
257	21.42	0.07	0.019	(	0.311)	0.018	0.002
258	21.50	0.07	0.019	(	0.310)	0.018	0.002
259	21.58	0.10	0.029	(	0.308)	0.026	0.003
260	21.67	0.10	0.029	(	0.307)	0.026	0.003
261	21.75	0.10	0.029	(	0.306)	0.026	0.003
262	21.83	0.07	0.019	(	0.305)	0.018	0.002
263	21.92	0.07	0.019	(	0.304)	0.018	0.002
264	22.00	0.07	0.019	(	0.303)	0.018	0.002
265	22.08	0.10	0.029	(	0.302)	0.026	0.003
266	22.17	0.10	0.029	(	0.301)	0.026	0.003
267	22.25	0.10	0.029	(	0.300)	0.026	0.003
268	22.33	0.07	0.019	(	0.299)	0.018	0.002
269	22.42	0.07	0.019	(	0.298)	0.018	0.002
270	22.50	0.07	0.019	(	0.297)	0.018	0.002
271	22.58	0.07	0.019	(	0.297)	0.018	0.002
272	22.67	0.07	0.019	(	0.296)	0.018	0.002
273	22.75	0.07	0.019	(	0.295)	0.018	0.002
274	22.83	0.07	0.019	(	0.294)	0.018	0.002
275	22.92	0.07	0.019	(	0.293)	0.018	0.002
276	23.00	0.07	0.019	(	0.293)	0.018	0.002
277	23.08	0.07	0.019	(	0.292)	0.018	0.002
278	23.17	0.07	0.019	(	0.291)	0.018	0.002
279	23.25	0.07	0.019	(	0.291)	0.018	0.002
280	23.33	0.07	0.019	(	0.290)	0.018	0.002
281	23.42	0.07	0.019	(	0.290)	0.018	0.002
282	23.50	0.07	0.019	(	0.289)	0.018	0.002
283	23.58	0.07	0.019	(	0.289)	0.018	0.002
284	23.67	0.07	0.019	(	0.288)	0.018	0.002
285	23.75	0.07	0.019	(	0.288)	0.018	0.002
286	23.83	0.07	0.019	(	0.287)	0.018	0.002
287	23.92	0.07	0.019	(	0.287)	0.018	0.002
288	24.00	0.07	0.019	(	0.287)	0.018	0.002

(Loss Rate Not Used)

Sum = 100.0 Sum = 2.9

Flood volume = Effective rainfall 0.24(In)
times area 9.9(Ac.)/[(In)/(Ft.)] = 0.2(Ac.Ft)
Total soil loss = 2.19(In)
Total soil loss = 1.801(Ac.Ft)
Total rainfall = 2.43(In)
Flood volume = 8714.7 Cubic Feet
Total soil loss = 78432.1 Cubic Feet

Peak flow rate of this hydrograph = 0.329(CFS)

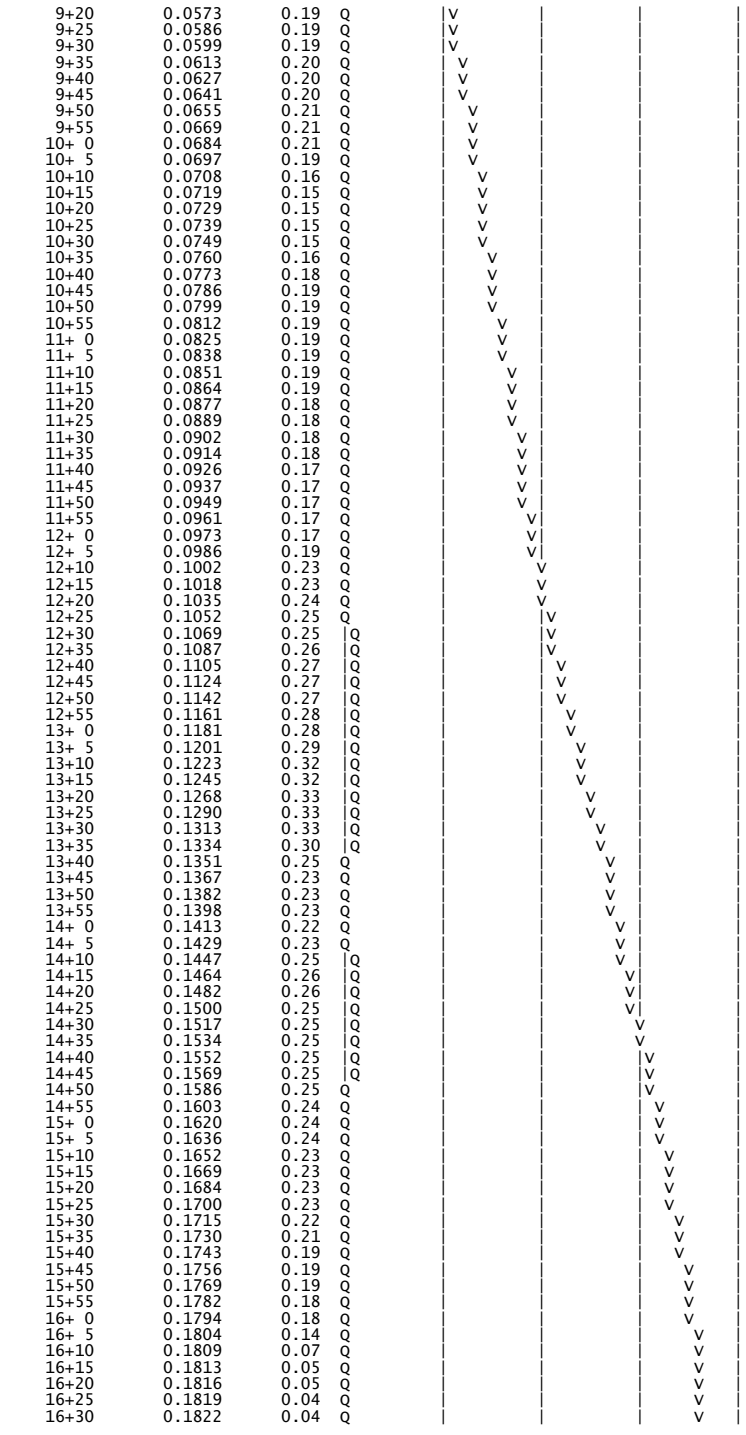
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24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0000	0.01	Q	|	|	|	|
0+10	0.0001	0.01	Q	|	|	|	|
0+15	0.0003	0.02	Q	|	|	|	|
0+20	0.0004	0.02	Q	|	|	|	|
0+25	0.0006	0.03	Q	|	|	|	|
0+30	0.0008	0.03	Q	|	|	|	|
0+35	0.0010	0.03	Q	|	|	|	|
0+40	0.0012	0.03	Q	|	|	|	|
0+45	0.0014	0.03	Q	|	|	|	|
0+50	0.0016	0.03	Q	|	|	|	|
0+55	0.0018	0.04	Q	|	|	|	|
1+ 0	0.0021	0.04	Q	|	|	|	|
1+ 5	0.0024	0.04	Q	|	|	|	|
1+10	0.0026	0.03	Q	|	|	|	|
1+15	0.0028	0.03	Q	|	|	|	|
1+20	0.0030	0.03	Q	|	|	|	|
1+25	0.0032	0.03	Q	|	|	|	|
1+30	0.0034	0.03	Q	|	|	|	|
1+35	0.0036	0.03	Q	|	|	|	|
1+40	0.0038	0.03	Q	|	|	|	|
1+45	0.0040	0.03	Q	|	|	|	|
1+50	0.0042	0.03	Q	|	|	|	|
1+55	0.0044	0.04	Q	|	|	|	|
2+ 0	0.0047	0.04	Q	|	|	|	|

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2+ 5       0.0050      0.04  Q          |          |          |          |
2+10       0.0052      0.04  QV         |          |          |          |
2+15       0.0055      0.04  QV         |          |          |          |
2+20       0.0058      0.04  QV         |          |          |          |
2+25       0.0060      0.04  QV         |          |          |          |
2+30       0.0063      0.04  QV         |          |          |          |
2+35       0.0066      0.04  QV         |          |          |          |
2+40       0.0069      0.05  QV         |          |          |          |
2+45       0.0072      0.05  QV         |          |          |          |
2+50       0.0076      0.05  QV         |          |          |          |
2+55       0.0079      0.05  QV         |          |          |          |
3+ 0       0.0082      0.05  QV         |          |          |          |
3+ 5       0.0086      0.05  QV         |          |          |          |
3+10       0.0089      0.05  QV         |          |          |          |
3+15       0.0092      0.05  QV         |          |          |          |
3+20       0.0096      0.05  QV         |          |          |          |
3+25       0.0099      0.05  QV         |          |          |          |
3+30       0.0102      0.05  Q V        |          |          |          |
3+35       0.0106      0.05  Q V        |          |          |          |
3+40       0.0109      0.05  Q V        |          |          |          |
3+45       0.0112      0.05  Q V        |          |          |          |
3+50       0.0116      0.05  Q V        |          |          |          |
3+55       0.0120      0.06  Q V        |          |          |          |
4+ 0       0.0124      0.06  Q V        |          |          |          |
4+ 5       0.0128      0.06  Q V        |          |          |          |
4+10       0.0132      0.06  Q V        |          |          |          |
4+15       0.0136      0.06  Q V        |          |          |          |
4+20       0.0140      0.06  Q V        |          |          |          |
4+25       0.0144      0.07  Q V        |          |          |          |
4+30       0.0149      0.07  Q V        |          |          |          |
4+35       0.0153      0.07  Q  V       |          |          |          |
4+40       0.0158      0.07  Q  V       |          |          |          |
4+45       0.0163      0.07  Q  V       |          |          |          |
4+50       0.0168      0.07  Q  V       |          |          |          |
4+55       0.0173      0.08  Q  V       |          |          |          |
5+ 0       0.0178      0.08  Q  V       |          |          |          |
5+ 5       0.0183      0.07  Q  V       |          |          |          |
5+10       0.0187      0.06  Q  V       |          |          |          |
5+15       0.0191      0.06  Q  V       |          |          |          |
5+20       0.0196      0.06  Q  V       |          |          |          |
5+25       0.0200      0.07  Q   V      |          |          |          |
5+30       0.0205      0.07  Q   V      |          |          |          |
5+35       0.0210      0.07  Q   V      |          |          |          |
5+40       0.0215      0.08  Q   V      |          |          |          |
5+45       0.0220      0.08  Q   V      |          |          |          |
5+50       0.0225      0.08  Q   V      |          |          |          |
5+55       0.0231      0.08  Q   V      |          |          |          |
6+ 0       0.0236      0.08  Q   V      |          |          |          |
6+ 5       0.0242      0.08  Q   V      |          |          |          |
6+10       0.0247      0.08  Q   V      |          |          |          |
6+15       0.0253      0.09  Q    V     |          |          |          |
6+20       0.0259      0.09  Q    V     |          |          |          |
6+25       0.0265      0.09  Q    V     |          |          |          |
6+30       0.0271      0.09  Q    V     |          |          |          |
6+35       0.0278      0.09  Q    V     |          |          |          |
6+40       0.0284      0.09  Q    V     |          |          |          |
6+45       0.0291      0.10  Q    V     |          |          |          |
6+50       0.0297      0.10  Q    V     |          |          |          |
6+55       0.0304      0.10  Q     V    |          |          |          |
7+ 0       0.0311      0.10  Q     V    |          |          |          |
7+ 5       0.0317      0.10  Q     V    |          |          |          |
7+10       0.0324      0.10  Q     V    |          |          |          |
7+15       0.0331      0.10  Q     V    |          |          |          |
7+20       0.0337      0.10  Q     V    |          |          |          |
7+25       0.0345      0.10  Q     V    |          |          |          |
7+30       0.0352      0.11  Q      V   |          |          |          |
7+35       0.0359      0.11  Q      V   |          |          |          |
7+40       0.0367      0.11  Q      V   |          |          |          |
7+45       0.0375      0.12  Q      V   |          |          |          |
7+50       0.0383      0.12  Q      V   |          |          |          |
7+55       0.0392      0.12  Q      V   |          |          |          |
8+ 0       0.0400      0.12  Q       V  |          |          |          |
8+ 5       0.0409      0.13  Q       V  |          |          |          |
8+10       0.0419      0.14  Q       V  |          |          |          |
8+15       0.0429      0.14  Q       V  |          |          |          |
8+20       0.0439      0.14  Q       V  |          |          |          |
8+25       0.0449      0.14  Q       V  |          |          |          |
8+30       0.0459      0.15  Q        V |          |          |          |
8+35       0.0469      0.15  Q        V |          |          |          |
8+40       0.0480      0.15  Q        V |          |          |          |
8+45       0.0490      0.15  Q        V |          |          |          |
8+50       0.0501      0.16  Q         V          |          |          |
8+55       0.0512      0.16  Q         V          |          |          |
9+ 0       0.0524      0.16  Q         V          |          |          |
9+ 5       0.0535      0.17  Q         V          |          |          |
9+10       0.0548      0.18  Q         V          |          |          |
9+15       0.0560      0.18  Q         |V         |          |          |
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9+20	0.0573	0.19	Q	
9+25	0.0586	0.19	Q	
9+30	0.0599	0.19	Q	
9+35	0.0613	0.20	Q	
9+40	0.0627	0.20	Q	
9+45	0.0641	0.20	Q	
9+50	0.0655	0.21	Q	
9+55	0.0669	0.21	Q	
10+ 0	0.0684	0.21	Q	
10+ 5	0.0697	0.19	Q	
10+10	0.0708	0.16	Q	
10+15	0.0719	0.15	Q	
10+20	0.0729	0.15	Q	
10+25	0.0739	0.15	Q	
10+30	0.0749	0.15	Q	
10+35	0.0760	0.16	Q	
10+40	0.0773	0.18	Q	
10+45	0.0786	0.19	Q	
10+50	0.0799	0.19	Q	
10+55	0.0812	0.19	Q	
11+ 0	0.0825	0.19	Q	
11+ 5	0.0838	0.19	Q	
11+10	0.0851	0.19	Q	
11+15	0.0864	0.19	Q	
11+20	0.0877	0.18	Q	
11+25	0.0889	0.18	Q	
11+30	0.0902	0.18	Q	
11+35	0.0914	0.18	Q	
11+40	0.0926	0.17	Q	
11+45	0.0937	0.17	Q	
11+50	0.0949	0.17	Q	
11+55	0.0961	0.17	Q	
12+ 0	0.0973	0.17	Q	
12+ 5	0.0986	0.19	Q	
12+10	0.1002	0.23	Q	
12+15	0.1018	0.23	Q	
12+20	0.1035	0.24	Q	
12+25	0.1052	0.25	Q	
12+30	0.1069	0.25	Q	
12+35	0.1087	0.26	Q	
12+40	0.1105	0.27	Q	
12+45	0.1124	0.27	Q	
12+50	0.1142	0.27	Q	
12+55	0.1161	0.28	Q	
13+ 0	0.1181	0.28	Q	
13+ 5	0.1201	0.29	Q	
13+10	0.1223	0.32	Q	
13+15	0.1245	0.32	Q	
13+20	0.1268	0.33	Q	
13+25	0.1290	0.33	Q	
13+30	0.1313	0.33	Q	
13+35	0.1334	0.30	Q	
13+40	0.1351	0.25	Q	
13+45	0.1367	0.23	Q	
13+50	0.1382	0.23	Q	
13+55	0.1398	0.23	Q	
14+ 0	0.1413	0.22	Q	
14+ 5	0.1429	0.23	Q	
14+10	0.1447	0.25	Q	
14+15	0.1464	0.26	Q	
14+20	0.1482	0.26	Q	
14+25	0.1500	0.25	Q	
14+30	0.1517	0.25	Q	
14+35	0.1534	0.25	Q	
14+40	0.1552	0.25	Q	
14+45	0.1569	0.25	Q	
14+50	0.1586	0.25	Q	
14+55	0.1603	0.24	Q	
15+ 0	0.1620	0.24	Q	
15+ 5	0.1636	0.24	Q	
15+10	0.1652	0.23	Q	
15+15	0.1669	0.23	Q	
15+20	0.1684	0.23	Q	
15+25	0.1700	0.23	Q	
15+30	0.1715	0.22	Q	
15+35	0.1730	0.21	Q	
15+40	0.1743	0.19	Q	
15+45	0.1756	0.19	Q	
15+50	0.1769	0.19	Q	
15+55	0.1782	0.18	Q	
16+ 0	0.1794	0.18	Q	
16+ 5	0.1804	0.14	Q	
16+10	0.1809	0.07	Q	
16+15	0.1813	0.05	Q	
16+20	0.1816	0.05	Q	
16+25	0.1819	0.04	Q	
16+30	0.1822	0.04	Q	

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16+35       0.1824      0.04  Q          |          |          |     V    |
16+40       0.1826      0.03  Q          |          |          |     V    |
16+45       0.1828      0.03  Q          |          |          |     V    |
16+50       0.1830      0.03  Q          |          |          |     V    |
16+55       0.1832      0.03  Q          |          |          |     V    |
17+ 0       0.1834      0.03  Q          |          |          |     V    |
17+ 5       0.1837      0.03  Q          |          |          |     V    |
17+10       0.1840      0.04  Q          |          |          |     V    |
17+15       0.1843      0.05  Q          |          |          |     V    |
17+20       0.1846      0.05  Q          |          |          |     V    |
17+25       0.1850      0.05  Q          |          |          |     V    |
17+30       0.1853      0.05  Q          |          |          |      V   |
17+35       0.1856      0.05  Q          |          |          |      V   |
17+40       0.1860      0.05  Q          |          |          |      V   |
17+45       0.1863      0.05  Q          |          |          |      V   |
17+50       0.1866      0.05  Q          |          |          |      V   |
17+55       0.1869      0.04  Q          |          |          |      V   |
18+ 0       0.1872      0.04  Q          |          |          |      V   |
18+ 5       0.1874      0.04  Q          |          |          |      V   |
18+10       0.1877      0.04  Q          |          |          |      V   |
18+15       0.1880      0.04  Q          |          |          |      V   |
18+20       0.1882      0.04  Q          |          |          |      V   |
18+25       0.1885      0.04  Q          |          |          |      V   |
18+30       0.1888      0.04  Q          |          |          |      V   |
18+35       0.1890      0.04  Q          |          |          |      V   |
18+40       0.1892      0.03  Q          |          |          |      V   |
18+45       0.1894      0.03  Q          |          |          |      V   |
18+50       0.1896      0.03  Q          |          |          |      V   |
18+55       0.1898      0.02  Q          |          |          |      V   |
19+ 0       0.1899      0.02  Q          |          |          |      V   |
19+ 5       0.1901      0.02  Q          |          |          |       V  |
19+10       0.1902      0.03  Q          |          |          |       V  |
19+15       0.1904      0.03  Q          |          |          |       V  |
19+20       0.1907      0.03  Q          |          |          |       V  |
19+25       0.1909      0.04  Q          |          |          |       V  |
19+30       0.1912      0.04  Q          |          |          |       V  |
19+35       0.1914      0.04  Q          |          |          |       V  |
19+40       0.1916      0.03  Q          |          |          |       V  |
19+45       0.1918      0.03  Q          |          |          |       V  |
19+50       0.1920      0.03  Q          |          |          |       V  |
19+55       0.1922      0.02  Q          |          |          |       V  |
20+ 0       0.1923      0.02  Q          |          |          |       V  |
20+ 5       0.1925      0.02  Q          |          |          |       V  |
20+10       0.1926      0.03  Q          |          |          |       V  |
20+15       0.1928      0.03  Q          |          |          |       V  |
20+20       0.1930      0.03  Q          |          |          |       V  |
20+25       0.1932      0.03  Q          |          |          |       V  |
20+30       0.1934      0.03  Q          |          |          |       V  |
20+35       0.1936      0.03  Q          |          |          |       V  |
20+40       0.1938      0.03  Q          |          |          |       V  |
20+45       0.1940      0.03  Q          |          |          |       V  |
20+50       0.1942      0.03  Q          |          |          |       V  |
20+55       0.1944      0.02  Q          |          |          |       V  |
21+ 0       0.1945      0.02  Q          |          |          |       V  |
21+ 5       0.1947      0.02  Q          |          |          |       V  |
21+10       0.1948      0.03  Q          |          |          |       V  |
21+15       0.1950      0.03  Q          |          |          |       V  |
21+20       0.1952      0.03  Q          |          |          |        V |
21+25       0.1954      0.02  Q          |          |          |        V |
21+30       0.1955      0.02  Q          |          |          |        V |
21+35       0.1957      0.02  Q          |          |          |        V |
21+40       0.1958      0.03  Q          |          |          |        V |
21+45       0.1960      0.03  Q          |          |          |        V |
21+50       0.1962      0.03  Q          |          |          |        V |
21+55       0.1964      0.02  Q          |          |          |        V |
22+ 0       0.1965      0.02  Q          |          |          |        V |
22+ 5       0.1967      0.02  Q          |          |          |        V |
22+10       0.1968      0.03  Q          |          |          |        V |
22+15       0.1970      0.03  Q          |          |          |        V |
22+20       0.1972      0.03  Q          |          |          |        V |
22+25       0.1974      0.02  Q          |          |          |        V |
22+30       0.1975      0.02  Q          |          |          |        V |
22+35       0.1976      0.02  Q          |          |          |        V |
22+40       0.1978      0.02  Q          |          |          |        V |
22+45       0.1979      0.02  Q          |          |          |        V |
22+50       0.1980      0.02  Q          |          |          |        V |
22+55       0.1982      0.02  Q          |          |          |        V |
23+ 0       0.1983      0.02  Q          |          |          |        V |
23+ 5       0.1984      0.02  Q          |          |          |        V |
23+10       0.1986      0.02  Q          |          |          |        V |
23+15       0.1987      0.02  Q          |          |          |        V |
23+20       0.1988      0.02  Q          |          |          |        V |
23+25       0.1990      0.02  Q          |          |          |        V |
23+30       0.1991      0.02  Q          |          |          |        V |
23+35       0.1992      0.02  Q          |          |          |        V |
23+40       0.1994      0.02  Q          |          |          |        V |
23+45       0.1995      0.02  Q          |          |          |        V |
```

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  23+50       0.1996      0.02  Q         |         |         |         V|
  23+55       0.1998      0.02  Q         |         |         |         V|
  24+ 0       0.1999      0.02  Q         |         |         |         V|
  24+ 5       0.2000      0.01  Q         |         |         |         V|
  24+10       0.2000      0.00  Q         |         |         |         V|
  24+15       0.2001      0.00  Q         |         |         |         V|
  24+20       0.2001      0.00  Q         |         |         |         V|
  24+25       0.2001      0.00  Q         |         |         |         V|
-------------------------------------------------------------------------
```

```
        U n i t   H y d r o g r a p h   A n a l y s i s

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                Study date  03/01/22 File: ex110110.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format


------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       9.87(Ac.)  =      0.015 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       9.87(Ac.)  =      0.015 Sq. Mi.
Length along longest watercourse =     912.00(Ft.)
Length along longest watercourse measured to centroid =     456.00(Ft.)
Length along longest watercourse =      0.173 Mi.
Length along longest watercourse measured to centroid =      0.086 Mi.
Difference in elevation =      15.00(Ft.)
Slope along watercourse =     86.8421 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time =    0.062 Hr.
Lag time =     3.74 Min.
25% of lag time =     0.94 Min.
40% of lag time =     1.50 Min.
Unit time =     5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            0.50                 4.93

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            1.20                11.84

STORM EVENT (YEAR) =   10.00
Area Averaged 2-Year Rainfall =    0.500(In)
Area Averaged 100-Year Rainfall =    1.200(In)

Point rain (area averaged) =    0.788(In)
Areal adjustment factor =   99.99 %
Adjusted average point rain =    0.788(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     9.870           69.00          0.000
 Total Area Entered =      9.87(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-2     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
69.0  69.0      0.373     0.000        0.373       1.000      0.373
                                                 Sum (F) =   0.373
Area averaged mean soil loss (F) (In/Hr) =  0.373
Minimum soil loss rate ((In/Hr)) =  0.186
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.900
------------------------------------------------------------------------
Slope of intensity-duration curve for a 1 hour storm =0.5000
------------------------------------------------------------------------
```

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)	Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	133.611	28.998	2.884
2	0.167	267.222	48.096	4.784
3	0.250	400.833	12.241	1.218
4	0.333	534.444	5.441	0.541
5	0.417	668.055	2.969	0.295
6	0.500	801.666	2.255	0.224
		Sum = 100.000	Sum=	9.947

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	4.20	0.397	(0.373)	0.357	0.040
2	0.17	4.30	0.407	(0.373)	0.366	0.041
3	0.25	5.00	0.473	0.373	(0.425)	0.100
4	0.33	5.00	0.473	0.373	(0.425)	0.100
5	0.42	5.80	0.548	0.373	(0.494)	0.176
6	0.50	6.50	0.615	0.373	(0.553)	0.242
7	0.58	7.40	0.700	0.373	(0.630)	0.327
8	0.67	8.60	0.813	0.373	(0.732)	0.440
9	0.75	12.30	1.163	0.373	(1.047)	0.790
10	0.83	29.10	2.751	0.373	(2.476)	2.379
11	0.92	6.80	0.643	0.373	(0.579)	0.270
12	1.00	5.00	0.473	0.373	(0.425)	0.100
		(Loss Rate Not Used)			
Sum =		100.0			Sum = 5.0

Flood volume = Effective rainfall 0.42(In)
times area 9.9(Ac.)/[(In)/(Ft.)] = 0.3(Ac.Ft)
Total soil loss = 0.37(In)
Total soil loss = 0.305(Ac.Ft)
Total rainfall = 0.79(In)
Flood volume = 14939.4 Cubic Feet
Total soil loss = 13290.2 Cubic Feet

Peak flow rate of this hydrograph = 13.517(CFS)

1 - 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 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0 5.0 10.0 15.0 20.0
0+ 5	0.0008	0.11	Q
0+10	0.0029	0.31	Q
0+15	0.0066	0.53	VQ
0+20	0.0123	0.84	|Q
0+25	0.0202	1.14	| Q
0+30	0.0321	1.74	| Q
0+35	0.0487	2.41	| QV
0+40	0.0713	3.28	| Q V
0+45	0.1057	4.99	| Q| V
0+50	0.1847	11.47	| |VQ
0+55	0.2778	13.52	| | Q | V
1+ 0	0.3130	5.11	| Q | V
1+ 5	0.3297	2.43	| Q | V
1+10	0.3376	1.15	| Q | V
1+15	0.3422	0.67	|Q | V
1+20	0.3428	0.09	Q | V
1+25	0.3430	0.02	Q | V

```
       U n i t   H y d r o g r a p h   A n a l y s i s

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              Study date  03/01/22 File: ex110310.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       9.87(Ac.)  =      0.015 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       9.87(Ac.)  =      0.015 Sq. Mi.
Length along longest watercourse =     912.00(Ft.)
Length along longest watercourse measured to centroid =     456.00(Ft.)
Length along longest watercourse =      0.173 Mi.
Length along longest watercourse measured to centroid =      0.086 Mi.
Difference in elevation =      15.00(Ft.)
Slope along watercourse =     86.8421 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time =    0.062 Hr.
Lag time =     3.74 Min.
25% of lag time =     0.94 Min.
40% of lag time =     1.50 Min.
Unit time =     5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            0.80                 7.90

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            1.90                18.75

STORM EVENT (YEAR) =   10.00
Area Averaged 2-Year Rainfall =    0.800(In)
Area Averaged 100-Year Rainfall =    1.900(In)

Point rain (area averaged) =    1.253(In)
Areal adjustment factor =  100.00 %
Adjusted average point rain =    1.252(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     9.870           69.00          0.000
 Total Area Entered =      9.87(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-2     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
69.0  69.0      0.373     0.000        0.373       1.000      0.373
                                                 Sum (F) =   0.373
Area averaged mean soil loss (F) (In/Hr) =  0.373
Minimum soil loss rate ((In/Hr)) =  0.186
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.900
------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
------------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
    (hrs)                          Graph %           (CFS)
------------------------------------------------------------------------
```

1	0.083	133.611	28.998	2.884
2	0.167	267.222	48.096	4.784
3	0.250	400.833	12.241	1.218
4	0.333	534.444	5.441	0.541
5	0.417	668.055	2.969	0.295
6	0.500	801.666	2.255	0.224
			Sum = 100.000 Sum=	9.947

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	1.30	0.195	(0.373)	0.176	0.020
2	0.17	1.30	0.195	(0.373)	0.176	0.020
3	0.25	1.10	0.165	(0.373)	0.149	0.017
4	0.33	1.50	0.225	(0.373)	0.203	0.023
5	0.42	1.50	0.225	(0.373)	0.203	0.023
6	0.50	1.80	0.271	(0.373)	0.243	0.027
7	0.58	1.50	0.225	(0.373)	0.203	0.023
8	0.67	1.80	0.271	(0.373)	0.243	0.027
9	0.75	1.80	0.271	(0.373)	0.243	0.027
10	0.83	1.50	0.225	(0.373)	0.203	0.023
11	0.92	1.60	0.240	(0.373)	0.216	0.024
12	1.00	1.80	0.271	(0.373)	0.243	0.027
13	1.08	2.20	0.331	(0.373)	0.298	0.033
14	1.17	2.20	0.331	(0.373)	0.298	0.033
15	1.25	2.20	0.331	(0.373)	0.298	0.033
16	1.33	2.00	0.301	(0.373)	0.271	0.030
17	1.42	2.60	0.391	(0.373)	0.352	0.039
18	1.50	2.70	0.406	(0.373)	0.365	0.041
19	1.58	2.40	0.361	(0.373)	0.325	0.036
20	1.67	2.70	0.406	(0.373)	0.365	0.041
21	1.75	3.30	0.496	0.373	(0.446)	0.123
22	1.83	3.10	0.466	0.373	(0.419)	0.093
23	1.92	2.90	0.436	0.373	(0.392)	0.063
24	2.00	3.00	0.451	0.373	(0.406)	0.078
25	2.08	3.10	0.466	0.373	(0.419)	0.093
26	2.17	4.20	0.631	0.373	(0.568)	0.258
27	2.25	5.00	0.751	0.373	(0.676)	0.379
28	2.33	3.50	0.526	0.373	(0.473)	0.153
29	2.42	6.80	1.022	0.373	(0.920)	0.649
30	2.50	7.30	1.097	0.373	(0.987)	0.724
31	2.58	8.20	1.232	0.373	(1.109)	0.860
32	2.67	5.90	0.887	0.373	(0.798)	0.514
33	2.75	2.00	0.301	(0.373)	0.271	0.030
34	2.83	1.80	0.271	(0.373)	0.243	0.027
35	2.92	1.80	0.271	(0.373)	0.243	0.027
36	3.00	0.60	0.090	(0.373)	0.081	0.009
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	4.6

Flood volume = Effective rainfall 0.39(In)
times area 9.9(Ac.)/[(In)/(Ft.)] = 0.3(Ac.Ft)
Total soil loss = 0.87(In)
Total soil loss = 0.712(Ac.Ft)
Total rainfall = 1.25(In)
Flood volume = 13868.6 Cubic Feet
Total soil loss = 31005.9 Cubic Feet

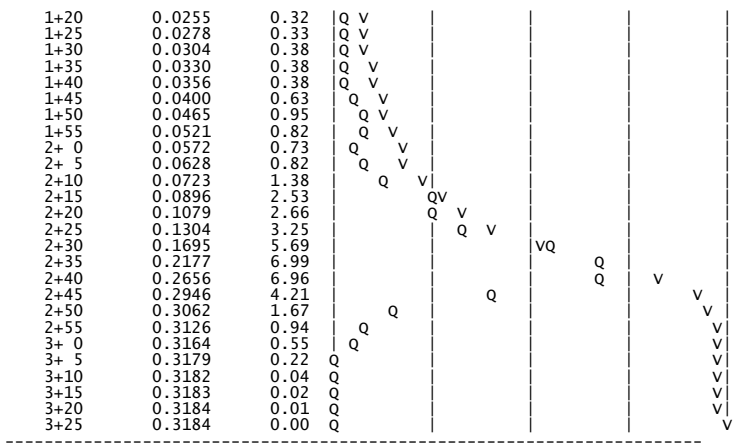
Peak flow rate of this hydrograph = 6.992(CFS)

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3 - 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 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0004	0.06	Q	|	|	|	|
0+10	0.0014	0.15	Q	|	|	|	|
0+15	0.0026	0.17	Q	|	|	|	|
0+20	0.0038	0.18	Q	|	|	|	|
0+25	0.0052	0.21	Q	|	|	|	|
0+30	0.0068	0.23	Q	|	|	|	|
0+35	0.0085	0.24	QV	|	|	|	|
0+40	0.0102	0.24	QV	|	|	|	|
0+45	0.0120	0.26	|Q	|	|	|	|
0+50	0.0137	0.25	|Q	|	|	|	|
0+55	0.0154	0.24	QV	|	|	|	|
1+ 0	0.0171	0.25	Q V	|	|	|	|
1+ 5	0.0190	0.28	|QV	|	|	|	|
1+10	0.0211	0.31	|QV	|	|	|	|
1+15	0.0234	0.32	|QV	|	|	|	|


1+20 0.0255 0.32
1+25 0.0278 0.33
1+30 0.0304 0.38
1+35 0.0330 0.38
1+40 0.0356 0.38
1+45 0.0400 0.63
1+50 0.0465 0.95
1+55 0.0521 0.82
2+ 0 0.0572 0.73
2+ 5 0.0628 0.82
2+10 0.0723 1.38
2+15 0.0896 2.53
2+20 0.1079 2.66
2+25 0.1304 3.25
2+30 0.1695 5.69
2+35 0.2177 6.99
2+40 0.2656 6.96
2+45 0.2946 4.21
2+50 0.3062 1.67
2+55 0.3126 0.94
3+ 0 0.3164 0.55
3+ 5 0.3179 0.22
3+10 0.3182 0.04
3+15 0.3183 0.02
3+20 0.3184 0.01
3+25 0.3184 0.00

```
       U n i t   H y d r o g r a p h   A n a l y s i s

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              Study date  03/01/22 File: ex110610.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       9.87(Ac.)  =      0.015 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       9.87(Ac.)  =      0.015 Sq. Mi.
Length along longest watercourse =     912.00(Ft.)
Length along longest watercourse measured to centroid =     456.00(Ft.)
Length along longest watercourse =      0.173 Mi.
Length along longest watercourse measured to centroid =      0.086 Mi.
Difference in elevation =      15.00(Ft.)
Slope along watercourse =     86.8421 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time =    0.062 Hr.
Lag time =     3.74 Min.
25% of lag time =     0.94 Min.
40% of lag time =     1.50 Min.
Unit time =     5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            1.20                11.84

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            2.50                24.67

STORM EVENT (YEAR) =   10.00
Area Averaged 2-Year Rainfall =    1.200(In)
Area Averaged 100-Year Rainfall =    2.500(In)

Point rain (area averaged) =    1.735(In)
Areal adjustment factor =  100.00 %
Adjusted average point rain =    1.735(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     9.870           69.00          0.000
 Total Area Entered =      9.87(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-2     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
69.0  69.0      0.373     0.000        0.373       1.000      0.373
                                                 Sum (F) =   0.373
Area averaged mean soil loss (F) (In/Hr) =  0.373
Minimum soil loss rate ((In/Hr)) =  0.186
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.900
------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
    (hrs)                          Graph %           (CFS)
------------------------------------------------------------------------
```

1	0.083	133.611	28.998		2.884
2	0.167	267.222	48.096		4.784
3	0.250	400.833	12.241		1.218
4	0.333	534.444	5.441		0.541
5	0.417	668.055	2.969		0.295
6	0.500	801.666	2.255		0.224
			Sum = 100.000	Sum=	9.947

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.104	(0.373)	0.094	0.010
2	0.17	0.60	0.125	(0.373)	0.112	0.012
3	0.25	0.60	0.125	(0.373)	0.112	0.012
4	0.33	0.60	0.125	(0.373)	0.112	0.012
5	0.42	0.60	0.125	(0.373)	0.112	0.012
6	0.50	0.70	0.146	(0.373)	0.131	0.015
7	0.58	0.70	0.146	(0.373)	0.131	0.015
8	0.67	0.70	0.146	(0.373)	0.131	0.015
9	0.75	0.70	0.146	(0.373)	0.131	0.015
10	0.83	0.70	0.146	(0.373)	0.131	0.015
11	0.92	0.70	0.146	(0.373)	0.131	0.015
12	1.00	0.80	0.167	(0.373)	0.150	0.017
13	1.08	0.80	0.167	(0.373)	0.150	0.017
14	1.17	0.80	0.167	(0.373)	0.150	0.017
15	1.25	0.80	0.167	(0.373)	0.150	0.017
16	1.33	0.80	0.167	(0.373)	0.150	0.017
17	1.42	0.80	0.167	(0.373)	0.150	0.017
18	1.50	0.80	0.167	(0.373)	0.150	0.017
19	1.58	0.80	0.167	(0.373)	0.150	0.017
20	1.67	0.80	0.167	(0.373)	0.150	0.017
21	1.75	0.80	0.167	(0.373)	0.150	0.017
22	1.83	0.80	0.167	(0.373)	0.150	0.017
23	1.92	0.80	0.167	(0.373)	0.150	0.017
24	2.00	0.90	0.187	(0.373)	0.169	0.019
25	2.08	0.80	0.167	(0.373)	0.150	0.017
26	2.17	0.90	0.187	(0.373)	0.169	0.019
27	2.25	0.90	0.187	(0.373)	0.169	0.019
28	2.33	0.90	0.187	(0.373)	0.169	0.019
29	2.42	0.90	0.187	(0.373)	0.169	0.019
30	2.50	0.90	0.187	(0.373)	0.169	0.019
31	2.58	0.90	0.187	(0.373)	0.169	0.019
32	2.67	0.90	0.187	(0.373)	0.169	0.019
33	2.75	1.00	0.208	(0.373)	0.187	0.021
34	2.83	1.00	0.208	(0.373)	0.187	0.021
35	2.92	1.00	0.208	(0.373)	0.187	0.021
36	3.00	1.00	0.208	(0.373)	0.187	0.021
37	3.08	1.00	0.208	(0.373)	0.187	0.021
38	3.17	1.10	0.229	(0.373)	0.206	0.023
39	3.25	1.10	0.229	(0.373)	0.206	0.023
40	3.33	1.10	0.229	(0.373)	0.206	0.023
41	3.42	1.20	0.250	(0.373)	0.225	0.025
42	3.50	1.30	0.271	(0.373)	0.244	0.027
43	3.58	1.40	0.291	(0.373)	0.262	0.029
44	3.67	1.40	0.291	(0.373)	0.262	0.029
45	3.75	1.50	0.312	(0.373)	0.281	0.031
46	3.83	1.50	0.312	(0.373)	0.281	0.031
47	3.92	1.60	0.333	(0.373)	0.300	0.033
48	4.00	1.60	0.333	(0.373)	0.300	0.033
49	4.08	1.70	0.354	(0.373)	0.319	0.035
50	4.17	1.80	0.375	(0.373)	0.337	0.037
51	4.25	1.90	0.396	(0.373)	0.356	0.040
52	4.33	2.00	0.416	0.373	(0.375)	0.044
53	4.42	2.10	0.437	0.373	(0.393)	0.064
54	4.50	2.10	0.437	0.373	(0.393)	0.064
55	4.58	2.20	0.458	0.373	(0.412)	0.085
56	4.67	2.30	0.479	0.373	(0.431)	0.106
57	4.75	2.40	0.500	0.373	(0.450)	0.127
58	4.83	2.40	0.500	0.373	(0.450)	0.127
59	4.92	2.50	0.520	0.373	(0.468)	0.148
60	5.00	2.60	0.541	0.373	(0.487)	0.168
61	5.08	3.10	0.645	0.373	(0.581)	0.273
62	5.17	3.60	0.749	0.373	(0.674)	0.377
63	5.25	3.90	0.812	0.373	(0.731)	0.439
64	5.33	4.20	0.874	0.373	(0.787)	0.502
65	5.42	4.70	0.978	0.373	(0.881)	0.606
66	5.50	5.60	1.166	0.373	(1.049)	0.793
67	5.58	1.90	0.396	(0.373)	0.356	0.040
68	5.67	0.90	0.187	(0.373)	0.169	0.019
69	5.75	0.60	0.125	(0.373)	0.112	0.012
70	5.83	0.50	0.104	(0.373)	0.094	0.010
71	5.92	0.30	0.062	(0.373)	0.056	0.006
72	6.00	0.20	0.042	(0.373)	0.037	0.004

```
            (Loss Rate Not Used)
 Sum =     100.0                                  Sum =     5.1
    Flood volume = Effective rainfall      0.42(In)
     times area       9.9(Ac.)/[(In)/(Ft.)] =       0.3(Ac.Ft)
    Total soil loss =      1.31(In)
    Total soil loss =     1.081(Ac.Ft)
    Total rainfall =      1.73(In)
    Flood volume =       15083.2 Cubic Feet
    Total soil loss =       47070.3 Cubic Feet
    ---------------------------------------------------------------------
     Peak flow rate of this hydrograph =      6.208(CFS)
    ---------------------------------------------------------------------
    +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                          6 - 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   5   Minute intervals ((CFS))

    ---------------------------------------------------------------------
Time(h+m) Volume Ac.Ft   Q(CFS)  0        2.5       5.0       7.5      10.0
-------------------------------------------------------------------------
  0+ 5       0.0002      0.03  Q         |         |         |         |
  0+10       0.0008      0.09  Q         |         |         |         |
  0+15       0.0015      0.11  Q         |         |         |         |
  0+20       0.0023      0.12  Q         |         |         |         |
  0+25       0.0032      0.12  Q         |         |         |         |
  0+30       0.0041      0.13  Q         |         |         |         |
  0+35       0.0050      0.14  Q         |         |         |         |
  0+40       0.0060      0.14  Q         |         |         |         |
  0+45       0.0070      0.14  Q         |         |         |         |
  0+50       0.0080      0.14  Q         |         |         |         |
  0+55       0.0090      0.15  QV        |         |         |         |
  1+ 0       0.0101      0.15  QV        |         |         |         |
  1+ 5       0.0112      0.16  QV        |         |         |         |
  1+10       0.0123      0.16  QV        |         |         |         |
  1+15       0.0134      0.16  QV        |         |         |         |
  1+20       0.0146      0.17  QV        |         |         |         |
  1+25       0.0157      0.17  QV        |         |         |         |
  1+30       0.0168      0.17  QV        |         |         |         |
  1+35       0.0180      0.17  Q V       |         |         |         |
  1+40       0.0191      0.17  Q V       |         |         |         |
  1+45       0.0203      0.17  Q V       |         |         |         |
  1+50       0.0214      0.17  Q V       |         |         |         |
  1+55       0.0225      0.17  Q V       |         |         |         |
  2+ 0       0.0237      0.17  Q V       |         |         |         |
  2+ 5       0.0249      0.18  Q V       |         |         |         |
  2+10       0.0261      0.17  Q  V      |         |         |         |
  2+15       0.0274      0.18  Q  V      |         |         |         |
  2+20       0.0287      0.18  Q  V      |         |         |         |
  2+25       0.0300      0.19  Q  V      |         |         |         |
  2+30       0.0312      0.19  Q  V      |         |         |         |
  2+35       0.0325      0.19  Q  V      |         |         |         |
  2+40       0.0338      0.19  Q  V      |         |         |         |
  2+45       0.0351      0.19  Q   V     |         |         |         |
  2+50       0.0365      0.20  Q   V     |         |         |         |
  2+55       0.0379      0.20  Q   V     |         |         |         |
  3+ 0       0.0394      0.21  Q   V     |         |         |         |
  3+ 5       0.0408      0.21  Q   V     |         |         |         |
  3+10       0.0422      0.21  Q   V     |         |         |         |
  3+15       0.0438      0.22  Q    V    |         |         |         |
  3+20       0.0453      0.23  Q    V    |         |         |         |
  3+25       0.0469      0.23  Q    V    |         |         |         |
  3+30       0.0487      0.25  Q    V    |         |         |         |
  3+35       0.0505      0.27  |Q   V    |         |         |         |
  3+40       0.0524      0.28  |Q    V   |         |         |         |
  3+45       0.0545      0.29  |Q    V   |         |         |         |
  3+50       0.0566      0.30  |Q    V   |         |         |         |
  3+55       0.0587      0.31  |Q    V   |         |         |         |
  4+ 0       0.0610      0.33  |Q     V  |         |         |         |
  4+ 5       0.0633      0.33  |Q     V  |         |         |         |
  4+10       0.0657      0.35  |Q     V  |         |         |         |
  4+15       0.0683      0.37  |Q     V  |         |         |         |
  4+20       0.0710      0.40  |Q      V |         |         |         |
  4+25       0.0743      0.48  |Q      V |         |         |         |
  4+30       0.0783      0.59  | Q      V|         |         |         |
  4+35       0.0830      0.68  | Q      V|         |         |         |
  4+40       0.0888      0.85  |  Q      V         |         |         |
  4+45       0.0960      1.04  |   Q     |V        |         |         |
  4+50       0.1042      1.18  |   Q     | V       |         |         |
  4+55       0.1130      1.28  |    Q    |  V      |         |         |
  5+ 0       0.1231      1.47  |    Q    |   V     |         |         |
  5+ 5       0.1362      1.90  |      Q  |    V    |         |         |
  5+10       0.1551      2.74  |         Q      V  |         |         |
  5+15       0.1796      3.57  |          |   Q     V         |         |
  5+20       0.2088      4.24  |          |     Q   |   V     |         |
  5+25       0.2433      5.01  |          |         Q       V |         |
  5+30       0.2861      6.21  |          |         |   Q     |  V      |
```

```
   5+35       0.3214      5.13  |         |          Q          |       V   |
   5+40       0.3337      1.78  |       Q |                     |         V |
   5+45       0.3399      0.89  |   Q     |                     |           V|
   5+50       0.3433      0.50  | Q       |                     |           V|
   5+55       0.3453      0.28  |Q        |                     |           V|
   6+ 0       0.3458      0.08  Q         |                     |           V|
   6+ 5       0.3461      0.04  Q         |                     |           V|
   6+10       0.3462      0.01  Q         |                     |           V|
   6+15       0.3462      0.01  Q         |                     |           V|
   6+20       0.3463      0.00  Q         |                     |           V|
   6+25       0.3463      0.00  Q         |                     |            V
-------------------------------------------------------------------------------
```

```
       U n i t   H y d r o g r a p h   A n a l y s i s

       Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2008, Version 8.1
              Study date  03/01/22 File: ex1102410.out

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------------------------------------------------------------------------------

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       9.87(Ac.)  =      0.015 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       9.87(Ac.)  =      0.015 Sq. Mi.
Length along longest watercourse =     912.00(Ft.)
Length along longest watercourse measured to centroid =     456.00(Ft.)
Length along longest watercourse =      0.173 Mi.
Length along longest watercourse measured to centroid =      0.086 Mi.
Difference in elevation =      15.00(Ft.)
Slope along watercourse =     86.8421 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time =    0.062 Hr.
Lag time =     3.74 Min.
25% of lag time =     0.94 Min.
40% of lag time =     1.50 Min.
Unit time =     5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            1.80                 17.77

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            4.50                 44.41

STORM EVENT (YEAR) =   10.00
Area Averaged 2-Year Rainfall =    1.800(In)
Area Averaged 100-Year Rainfall =    4.500(In)

Point rain (area averaged) =    2.911(In)
Areal adjustment factor =  100.00 %
Adjusted average point rain =    2.911(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     9.870           69.00          0.000
 Total Area Entered =      9.87(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-2     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
69.0  69.0      0.373     0.000        0.373       1.000      0.373
                                                 Sum (F) =   0.373
Area averaged mean soil loss (F) (In/Hr) =  0.373
Minimum soil loss rate ((In/Hr)) =  0.186
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.900
------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
    (hrs)                          Graph %           (CFS)
------------------------------------------------------------------------
```

1	0.083	133.611	28.998	2.884
2	0.167	267.222	48.096	4.784
3	0.250	400.833	12.241	1.218
4	0.333	534.444	5.441	0.541
5	0.417	668.055	2.969	0.295
6	0.500	801.666	2.255	0.224
			Sum = 100.000 Sum=	9.947

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.023	(0.661)	0.021	0.002
2	0.17	0.07	0.023	(0.658)	0.021	0.002
3	0.25	0.07	0.023	(0.656)	0.021	0.002
4	0.33	0.10	0.035	(0.653)	0.031	0.003
5	0.42	0.10	0.035	(0.651)	0.031	0.003
6	0.50	0.10	0.035	(0.648)	0.031	0.003
7	0.58	0.10	0.035	(0.646)	0.031	0.003
8	0.67	0.10	0.035	(0.643)	0.031	0.003
9	0.75	0.10	0.035	(0.641)	0.031	0.003
10	0.83	0.13	0.047	(0.638)	0.042	0.005
11	0.92	0.13	0.047	(0.636)	0.042	0.005
12	1.00	0.13	0.047	(0.633)	0.042	0.005
13	1.08	0.10	0.035	(0.631)	0.031	0.003
14	1.17	0.10	0.035	(0.628)	0.031	0.003
15	1.25	0.10	0.035	(0.626)	0.031	0.003
16	1.33	0.10	0.035	(0.623)	0.031	0.003
17	1.42	0.10	0.035	(0.621)	0.031	0.003
18	1.50	0.10	0.035	(0.618)	0.031	0.003
19	1.58	0.10	0.035	(0.616)	0.031	0.003
20	1.67	0.10	0.035	(0.613)	0.031	0.003
21	1.75	0.10	0.035	(0.611)	0.031	0.003
22	1.83	0.13	0.047	(0.608)	0.042	0.005
23	1.92	0.13	0.047	(0.606)	0.042	0.005
24	2.00	0.13	0.047	(0.603)	0.042	0.005
25	2.08	0.13	0.047	(0.601)	0.042	0.005
26	2.17	0.13	0.047	(0.598)	0.042	0.005
27	2.25	0.13	0.047	(0.596)	0.042	0.005
28	2.33	0.13	0.047	(0.594)	0.042	0.005
29	2.42	0.13	0.047	(0.591)	0.042	0.005
30	2.50	0.13	0.047	(0.589)	0.042	0.005
31	2.58	0.17	0.058	(0.586)	0.052	0.006
32	2.67	0.17	0.058	(0.584)	0.052	0.006
33	2.75	0.17	0.058	(0.582)	0.052	0.006
34	2.83	0.17	0.058	(0.579)	0.052	0.006
35	2.92	0.17	0.058	(0.577)	0.052	0.006
36	3.00	0.17	0.058	(0.574)	0.052	0.006
37	3.08	0.17	0.058	(0.572)	0.052	0.006
38	3.17	0.17	0.058	(0.570)	0.052	0.006
39	3.25	0.17	0.058	(0.567)	0.052	0.006
40	3.33	0.17	0.058	(0.565)	0.052	0.006
41	3.42	0.17	0.058	(0.563)	0.052	0.006
42	3.50	0.17	0.058	(0.560)	0.052	0.006
43	3.58	0.17	0.058	(0.558)	0.052	0.006
44	3.67	0.17	0.058	(0.556)	0.052	0.006
45	3.75	0.17	0.058	(0.553)	0.052	0.006
46	3.83	0.20	0.070	(0.551)	0.063	0.007
47	3.92	0.20	0.070	(0.549)	0.063	0.007
48	4.00	0.20	0.070	(0.546)	0.063	0.007
49	4.08	0.20	0.070	(0.544)	0.063	0.007
50	4.17	0.20	0.070	(0.542)	0.063	0.007
51	4.25	0.20	0.070	(0.539)	0.063	0.007
52	4.33	0.23	0.082	(0.537)	0.073	0.008
53	4.42	0.23	0.082	(0.535)	0.073	0.008
54	4.50	0.23	0.082	(0.532)	0.073	0.008
55	4.58	0.23	0.082	(0.530)	0.073	0.008
56	4.67	0.23	0.082	(0.528)	0.073	0.008
57	4.75	0.23	0.082	(0.526)	0.073	0.008
58	4.83	0.27	0.093	(0.523)	0.084	0.009
59	4.92	0.27	0.093	(0.521)	0.084	0.009
60	5.00	0.27	0.093	(0.519)	0.084	0.009
61	5.08	0.20	0.070	(0.516)	0.063	0.007
62	5.17	0.20	0.070	(0.514)	0.063	0.007
63	5.25	0.20	0.070	(0.512)	0.063	0.007
64	5.33	0.23	0.082	(0.510)	0.073	0.008
65	5.42	0.23	0.082	(0.508)	0.073	0.008
66	5.50	0.23	0.082	(0.505)	0.073	0.008
67	5.58	0.27	0.093	(0.503)	0.084	0.009
68	5.67	0.27	0.093	(0.501)	0.084	0.009
69	5.75	0.27	0.093	(0.499)	0.084	0.009
70	5.83	0.27	0.093	(0.496)	0.084	0.009
71	5.92	0.27	0.093	(0.494)	0.084	0.009
72	6.00	0.27	0.093	(0.492)	0.084	0.009

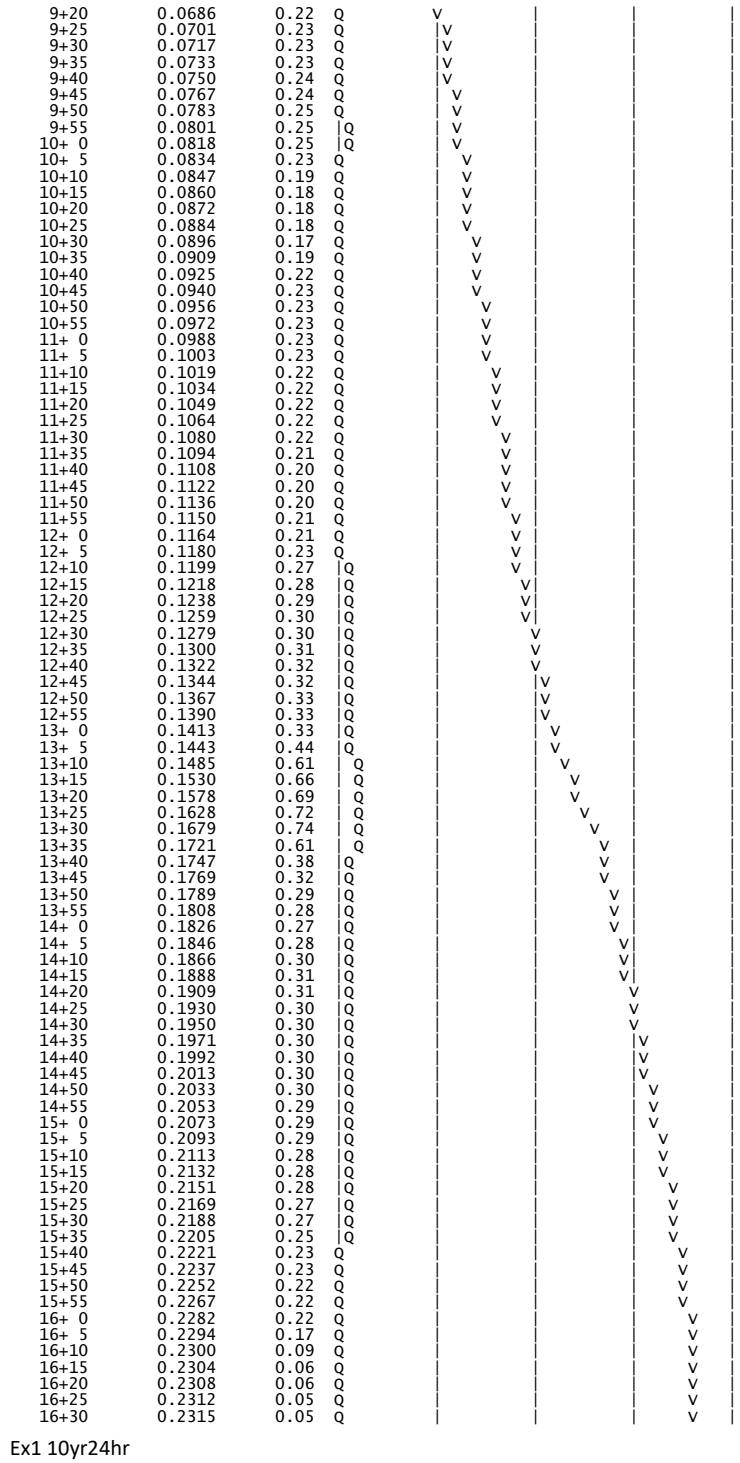
73	6.08	0.30	0.105	(0.490)	0.094	0.010
74	6.17	0.30	0.105	(0.488)	0.094	0.010
75	6.25	0.30	0.105	(0.486)	0.094	0.010
76	6.33	0.30	0.105	(0.483)	0.094	0.010
77	6.42	0.30	0.105	(0.481)	0.094	0.010
78	6.50	0.30	0.105	(0.479)	0.094	0.010
79	6.58	0.33	0.116	(0.477)	0.105	0.012
80	6.67	0.33	0.116	(0.475)	0.105	0.012
81	6.75	0.33	0.116	(0.473)	0.105	0.012
82	6.83	0.33	0.116	(0.470)	0.105	0.012
83	6.92	0.33	0.116	(0.468)	0.105	0.012
84	7.00	0.33	0.116	(0.466)	0.105	0.012
85	7.08	0.33	0.116	(0.464)	0.105	0.012
86	7.17	0.33	0.116	(0.462)	0.105	0.012
87	7.25	0.33	0.116	(0.460)	0.105	0.012
88	7.33	0.37	0.128	(0.458)	0.115	0.013
89	7.42	0.37	0.128	(0.456)	0.115	0.013
90	7.50	0.37	0.128	(0.454)	0.115	0.013
91	7.58	0.40	0.140	(0.452)	0.126	0.014
92	7.67	0.40	0.140	(0.449)	0.126	0.014
93	7.75	0.40	0.140	(0.447)	0.126	0.014
94	7.83	0.43	0.151	(0.445)	0.136	0.015
95	7.92	0.43	0.151	(0.443)	0.136	0.015
96	8.00	0.43	0.151	(0.441)	0.136	0.015
97	8.08	0.50	0.175	(0.439)	0.157	0.017
98	8.17	0.50	0.175	(0.437)	0.157	0.017
99	8.25	0.50	0.175	(0.435)	0.157	0.017
100	8.33	0.50	0.175	(0.433)	0.157	0.017
101	8.42	0.50	0.175	(0.431)	0.157	0.017
102	8.50	0.50	0.175	(0.429)	0.157	0.017
103	8.58	0.53	0.186	(0.427)	0.168	0.019
104	8.67	0.53	0.186	(0.425)	0.168	0.019
105	8.75	0.53	0.186	(0.423)	0.168	0.019
106	8.83	0.57	0.198	(0.421)	0.178	0.020
107	8.92	0.57	0.198	(0.419)	0.178	0.020
108	9.00	0.57	0.198	(0.417)	0.178	0.020
109	9.08	0.63	0.221	(0.415)	0.199	0.022
110	9.17	0.63	0.221	(0.413)	0.199	0.022
111	9.25	0.63	0.221	(0.411)	0.199	0.022
112	9.33	0.67	0.233	(0.409)	0.210	0.023
113	9.42	0.67	0.233	(0.407)	0.210	0.023
114	9.50	0.67	0.233	(0.405)	0.210	0.023
115	9.58	0.70	0.245	(0.403)	0.220	0.024
116	9.67	0.70	0.245	(0.401)	0.220	0.024
117	9.75	0.70	0.245	(0.399)	0.220	0.024
118	9.83	0.73	0.256	(0.398)	0.231	0.026
119	9.92	0.73	0.256	(0.396)	0.231	0.026
120	10.00	0.73	0.256	(0.394)	0.231	0.026
121	10.08	0.50	0.175	(0.392)	0.157	0.017
122	10.17	0.50	0.175	(0.390)	0.157	0.017
123	10.25	0.50	0.175	(0.388)	0.157	0.017
124	10.33	0.50	0.175	(0.386)	0.157	0.017
125	10.42	0.50	0.175	(0.384)	0.157	0.017
126	10.50	0.50	0.175	(0.382)	0.157	0.017
127	10.58	0.67	0.233	(0.380)	0.210	0.023
128	10.67	0.67	0.233	(0.379)	0.210	0.023
129	10.75	0.67	0.233	(0.377)	0.210	0.023
130	10.83	0.67	0.233	(0.375)	0.210	0.023
131	10.92	0.67	0.233	(0.373)	0.210	0.023
132	11.00	0.67	0.233	(0.371)	0.210	0.023
133	11.08	0.63	0.221	(0.369)	0.199	0.022
134	11.17	0.63	0.221	(0.368)	0.199	0.022
135	11.25	0.63	0.221	(0.366)	0.199	0.022
136	11.33	0.63	0.221	(0.364)	0.199	0.022
137	11.42	0.63	0.221	(0.362)	0.199	0.022
138	11.50	0.63	0.221	(0.360)	0.199	0.022
139	11.58	0.57	0.198	(0.359)	0.178	0.020
140	11.67	0.57	0.198	(0.357)	0.178	0.020
141	11.75	0.57	0.198	(0.355)	0.178	0.020
142	11.83	0.60	0.210	(0.353)	0.189	0.021
143	11.92	0.60	0.210	(0.352)	0.189	0.021
144	12.00	0.60	0.210	(0.350)	0.189	0.021
145	12.08	0.83	0.291	(0.348)	0.262	0.029
146	12.17	0.83	0.291	(0.346)	0.262	0.029
147	12.25	0.83	0.291	(0.345)	0.262	0.029
148	12.33	0.87	0.303	(0.343)	0.272	0.030
149	12.42	0.87	0.303	(0.341)	0.272	0.030
150	12.50	0.87	0.303	(0.339)	0.272	0.030
151	12.58	0.93	0.326	(0.338)	0.293	0.033
152	12.67	0.93	0.326	(0.336)	0.293	0.033
153	12.75	0.93	0.326	(0.334)	0.293	0.033
154	12.83	0.97	0.338	(0.333)	0.304	0.034
155	12.92	0.97	0.338	(0.331)	0.304	0.034
156	13.00	0.97	0.338	(0.329)	0.304	0.034
157	13.08	1.13	0.396	0.328	(0.356)	0.068
158	13.17	1.13	0.396	0.326	(0.356)	0.070
159	13.25	1.13	0.396	0.324	(0.356)	0.072

160	13.33	1.13	0.396	0.323	(0.356)	0.073
161	13.42	1.13	0.396	0.321	(0.356)	0.075
162	13.50	1.13	0.396	0.319	(0.356)	0.077
163	13.58	0.77	0.268	(0.318)	0.241	0.027
164	13.67	0.77	0.268	(0.316)	0.241	0.027
165	13.75	0.77	0.268	(0.314)	0.241	0.027
166	13.83	0.77	0.268	(0.313)	0.241	0.027
167	13.92	0.77	0.268	(0.311)	0.241	0.027
168	14.00	0.77	0.268	(0.310)	0.241	0.027
169	14.08	0.90	0.314	(0.308)	0.283	0.031
170	14.17	0.90	0.314	(0.307)	0.283	0.031
171	14.25	0.90	0.314	(0.305)	0.283	0.031
172	14.33	0.87	0.303	(0.303)	0.272	0.030
173	14.42	0.87	0.303	(0.302)	0.272	0.030
174	14.50	0.87	0.303	(0.300)	0.272	0.030
175	14.58	0.87	0.303	(0.299)	0.272	0.030
176	14.67	0.87	0.303	(0.297)	0.272	0.030
177	14.75	0.87	0.303	(0.296)	0.272	0.030
178	14.83	0.83	0.291	(0.294)	0.262	0.029
179	14.92	0.83	0.291	(0.293)	0.262	0.029
180	15.00	0.83	0.291	(0.291)	0.262	0.029
181	15.08	0.80	0.279	(0.290)	0.251	0.028
182	15.17	0.80	0.279	(0.288)	0.251	0.028
183	15.25	0.80	0.279	(0.287)	0.251	0.028
184	15.33	0.77	0.268	(0.285)	0.241	0.027
185	15.42	0.77	0.268	(0.284)	0.241	0.027
186	15.50	0.77	0.268	(0.282)	0.241	0.027
187	15.58	0.63	0.221	(0.281)	0.199	0.022
188	15.67	0.63	0.221	(0.279)	0.199	0.022
189	15.75	0.63	0.221	(0.278)	0.199	0.022
190	15.83	0.63	0.221	(0.277)	0.199	0.022
191	15.92	0.63	0.221	(0.275)	0.199	0.022
192	16.00	0.63	0.221	(0.274)	0.199	0.022
193	16.08	0.13	0.047	(0.272)	0.042	0.005
194	16.17	0.13	0.047	(0.271)	0.042	0.005
195	16.25	0.13	0.047	(0.270)	0.042	0.005
196	16.33	0.13	0.047	(0.268)	0.042	0.005
197	16.42	0.13	0.047	(0.267)	0.042	0.005
198	16.50	0.13	0.047	(0.265)	0.042	0.005
199	16.58	0.10	0.035	(0.264)	0.031	0.003
200	16.67	0.10	0.035	(0.263)	0.031	0.003
201	16.75	0.10	0.035	(0.261)	0.031	0.003
202	16.83	0.10	0.035	(0.260)	0.031	0.003
203	16.92	0.10	0.035	(0.259)	0.031	0.003
204	17.00	0.10	0.035	(0.258)	0.031	0.003
205	17.08	0.17	0.058	(0.256)	0.052	0.006
206	17.17	0.17	0.058	(0.255)	0.052	0.006
207	17.25	0.17	0.058	(0.254)	0.052	0.006
208	17.33	0.17	0.058	(0.252)	0.052	0.006
209	17.42	0.17	0.058	(0.251)	0.052	0.006
210	17.50	0.17	0.058	(0.250)	0.052	0.006
211	17.58	0.17	0.058	(0.249)	0.052	0.006
212	17.67	0.17	0.058	(0.247)	0.052	0.006
213	17.75	0.17	0.058	(0.246)	0.052	0.006
214	17.83	0.13	0.047	(0.245)	0.042	0.005
215	17.92	0.13	0.047	(0.244)	0.042	0.005
216	18.00	0.13	0.047	(0.242)	0.042	0.005
217	18.08	0.13	0.047	(0.241)	0.042	0.005
218	18.17	0.13	0.047	(0.240)	0.042	0.005
219	18.25	0.13	0.047	(0.239)	0.042	0.005
220	18.33	0.13	0.047	(0.238)	0.042	0.005
221	18.42	0.13	0.047	(0.237)	0.042	0.005
222	18.50	0.13	0.047	(0.235)	0.042	0.005
223	18.58	0.10	0.035	(0.234)	0.031	0.003
224	18.67	0.10	0.035	(0.233)	0.031	0.003
225	18.75	0.10	0.035	(0.232)	0.031	0.003
226	18.83	0.07	0.023	(0.231)	0.021	0.002
227	18.92	0.07	0.023	(0.230)	0.021	0.002
228	19.00	0.07	0.023	(0.229)	0.021	0.002
229	19.08	0.10	0.035	(0.228)	0.031	0.003
230	19.17	0.10	0.035	(0.227)	0.031	0.003
231	19.25	0.10	0.035	(0.226)	0.031	0.003
232	19.33	0.13	0.047	(0.225)	0.042	0.005
233	19.42	0.13	0.047	(0.223)	0.042	0.005
234	19.50	0.13	0.047	(0.222)	0.042	0.005
235	19.58	0.10	0.035	(0.221)	0.031	0.003
236	19.67	0.10	0.035	(0.220)	0.031	0.003
237	19.75	0.10	0.035	(0.219)	0.031	0.003
238	19.83	0.07	0.023	(0.218)	0.021	0.002
239	19.92	0.07	0.023	(0.217)	0.021	0.002
240	20.00	0.07	0.023	(0.216)	0.021	0.002
241	20.08	0.10	0.035	(0.216)	0.031	0.003
242	20.17	0.10	0.035	(0.215)	0.031	0.003
243	20.25	0.10	0.035	(0.214)	0.031	0.003
244	20.33	0.10	0.035	(0.213)	0.031	0.003
245	20.42	0.10	0.035	(0.212)	0.031	0.003
246	20.50	0.10	0.035	(0.211)	0.031	0.003

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247  20.58     0.10      0.035       (  0.210)       0.031        0.003
248  20.67     0.10      0.035       (  0.209)       0.031        0.003
249  20.75     0.10      0.035       (  0.208)       0.031        0.003
250  20.83     0.07      0.023       (  0.207)       0.021        0.002
251  20.92     0.07      0.023       (  0.207)       0.021        0.002
252  21.00     0.07      0.023       (  0.206)       0.021        0.002
253  21.08     0.10      0.035       (  0.205)       0.031        0.003
254  21.17     0.10      0.035       (  0.204)       0.031        0.003
255  21.25     0.10      0.035       (  0.203)       0.031        0.003
256  21.33     0.07      0.023       (  0.203)       0.021        0.002
257  21.42     0.07      0.023       (  0.202)       0.021        0.002
258  21.50     0.07      0.023       (  0.201)       0.021        0.002
259  21.58     0.10      0.035       (  0.200)       0.031        0.003
260  21.67     0.10      0.035       (  0.200)       0.031        0.003
261  21.75     0.10      0.035       (  0.199)       0.031        0.003
262  21.83     0.07      0.023       (  0.198)       0.021        0.002
263  21.92     0.07      0.023       (  0.198)       0.021        0.002
264  22.00     0.07      0.023       (  0.197)       0.021        0.002
265  22.08     0.10      0.035       (  0.196)       0.031        0.003
266  22.17     0.10      0.035       (  0.196)       0.031        0.003
267  22.25     0.10      0.035       (  0.195)       0.031        0.003
268  22.33     0.07      0.023       (  0.194)       0.021        0.002
269  22.42     0.07      0.023       (  0.194)       0.021        0.002
270  22.50     0.07      0.023       (  0.193)       0.021        0.002
271  22.58     0.07      0.023       (  0.193)       0.021        0.002
272  22.67     0.07      0.023       (  0.192)       0.021        0.002
273  22.75     0.07      0.023       (  0.192)       0.021        0.002
274  22.83     0.07      0.023       (  0.191)       0.021        0.002
275  22.92     0.07      0.023       (  0.191)       0.021        0.002
276  23.00     0.07      0.023       (  0.190)       0.021        0.002
277  23.08     0.07      0.023       (  0.190)       0.021        0.002
278  23.17     0.07      0.023       (  0.189)       0.021        0.002
279  23.25     0.07      0.023       (  0.189)       0.021        0.002
280  23.33     0.07      0.023       (  0.188)       0.021        0.002
281  23.42     0.07      0.023       (  0.188)       0.021        0.002
282  23.50     0.07      0.023       (  0.188)       0.021        0.002
283  23.58     0.07      0.023       (  0.187)       0.021        0.002
284  23.67     0.07      0.023       (  0.187)       0.021        0.002
285  23.75     0.07      0.023       (  0.187)       0.021        0.002
286  23.83     0.07      0.023       (  0.187)       0.021        0.002
287  23.92     0.07      0.023       (  0.187)       0.021        0.002
288  24.00     0.07      0.023       (  0.186)       0.021        0.002
               (Loss Rate Not Used)
    Sum =     100.0                                  Sum =      3.7
      Flood volume = Effective rainfall      0.31(In)
       times area       9.9(Ac.)/[(In)/(Ft.)] =       0.3(Ac.Ft)
      Total soil loss =      2.60(In)
      Total soil loss =     2.141(Ac.Ft)
      Total rainfall =      2.91(In)
      Flood volume =       11017.3 Cubic Feet
      Total soil loss =       93269.2 Cubic Feet
      ---------------------------------------------------------------------
       Peak flow rate of this hydrograph =      0.744(CFS)
      ---------------------------------------------------------------------
      +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                          24 - 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   5   Minute intervals ((CFS))

      ---------------------------------------------------------------------
 Time(h+m) Volume Ac.Ft   Q(CFS)  0        2.5       5.0       7.5       10.0
 ---------------------------------------------------------------------------
   0+ 5       0.0000      0.01  Q          |         |         |         |
   0+10       0.0002      0.02  Q          |         |         |         |
   0+15       0.0003      0.02  Q          |         |         |         |
   0+20       0.0005      0.03  Q          |         |         |         |
   0+25       0.0007      0.03  Q          |         |         |         |
   0+30       0.0009      0.03  Q          |         |         |         |
   0+35       0.0012      0.03  Q          |         |         |         |
   0+40       0.0014      0.03  Q          |         |         |         |
   0+45       0.0016      0.03  Q          |         |         |         |
   0+50       0.0019      0.04  Q          |         |         |         |
   0+55       0.0022      0.04  Q          |         |         |         |
   1+ 0       0.0025      0.05  Q          |         |         |         |
   1+ 5       0.0028      0.04  Q          |         |         |         |
   1+10       0.0031      0.04  Q          |         |         |         |
   1+15       0.0033      0.04  Q          |         |         |         |
   1+20       0.0036      0.04  Q          |         |         |         |
   1+25       0.0038      0.04  Q          |         |         |         |
   1+30       0.0040      0.03  Q          |         |         |         |
   1+35       0.0043      0.03  Q          |         |         |         |
   1+40       0.0045      0.03  Q          |         |         |         |
   1+45       0.0048      0.03  Q          |         |         |         |
   1+50       0.0050      0.04  Q          |         |         |         |
   1+55       0.0053      0.04  Q          |         |         |         |
   2+ 0       0.0056      0.05  Q          |         |         |         |
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2+ 5       0.0059      0.05  Q          |          |          |          |
2+10       0.0063      0.05  Q          |          |          |          |
2+15       0.0066      0.05  QV         |          |          |          |
2+20       0.0069      0.05  QV         |          |          |          |
2+25       0.0072      0.05  QV         |          |          |          |
2+30       0.0075      0.05  QV         |          |          |          |
2+35       0.0079      0.05  QV         |          |          |          |
2+40       0.0083      0.06  QV         |          |          |          |
2+45       0.0087      0.06  QV         |          |          |          |
2+50       0.0091      0.06  QV         |          |          |          |
2+55       0.0094      0.06  QV         |          |          |          |
3+ 0       0.0098      0.06  QV         |          |          |          |
3+ 5       0.0102      0.06  QV         |          |          |          |
3+10       0.0106      0.06  QV         |          |          |          |
3+15       0.0110      0.06  QV         |          |          |          |
3+20       0.0114      0.06  QV         |          |          |          |
3+25       0.0118      0.06  QV         |          |          |          |
3+30       0.0122      0.06  QV         |          |          |          |
3+35       0.0126      0.06  QV         |          |          |          |
3+40       0.0130      0.06  Q V        |          |          |          |
3+45       0.0134      0.06  Q V        |          |          |          |
3+50       0.0139      0.06  Q V        |          |          |          |
3+55       0.0143      0.07  Q V        |          |          |          |
4+ 0       0.0148      0.07  Q V        |          |          |          |
4+ 5       0.0153      0.07  Q V        |          |          |          |
4+10       0.0157      0.07  Q V        |          |          |          |
4+15       0.0162      0.07  Q V        |          |          |          |
4+20       0.0167      0.07  Q V        |          |          |          |
4+25       0.0173      0.08  Q V        |          |          |          |
4+30       0.0178      0.08  Q V        |          |          |          |
4+35       0.0184      0.08  Q V        |          |          |          |
4+40       0.0189      0.08  Q V        |          |          |          |
4+45       0.0195      0.08  Q  V       |          |          |          |
4+50       0.0201      0.08  Q  V       |          |          |          |
4+55       0.0207      0.09  Q  V       |          |          |          |
5+ 0       0.0213      0.09  Q  V       |          |          |          |
5+ 5       0.0219      0.09  Q  V       |          |          |          |
5+10       0.0224      0.07  Q  V       |          |          |          |
5+15       0.0229      0.07  Q  V       |          |          |          |
5+20       0.0234      0.07  Q  V       |          |          |          |
5+25       0.0240      0.08  Q  V       |          |          |          |
5+30       0.0245      0.08  Q  V       |          |          |          |
5+35       0.0251      0.08  Q  V       |          |          |          |
5+40       0.0257      0.09  Q   V      |          |          |          |
5+45       0.0263      0.09  Q   V      |          |          |          |
5+50       0.0270      0.09  Q   V      |          |          |          |
5+55       0.0276      0.09  Q   V      |          |          |          |
6+ 0       0.0283      0.09  Q   V      |          |          |          |
6+ 5       0.0289      0.10  Q   V      |          |          |          |
6+10       0.0296      0.10  Q   V      |          |          |          |
6+15       0.0303      0.10  Q   V      |          |          |          |
6+20       0.0310      0.10  Q   V      |          |          |          |
6+25       0.0318      0.10  Q    V     |          |          |          |
6+30       0.0325      0.10  Q    V     |          |          |          |
6+35       0.0332      0.11  Q    V     |          |          |          |
6+40       0.0340      0.11  Q    V     |          |          |          |
6+45       0.0348      0.11  Q    V     |          |          |          |
6+50       0.0356      0.12  Q    V     |          |          |          |
6+55       0.0364      0.12  Q    V     |          |          |          |
7+ 0       0.0372      0.12  Q    V     |          |          |          |
7+ 5       0.0380      0.12  Q     V    |          |          |          |
7+10       0.0388      0.12  Q     V    |          |          |          |
7+15       0.0396      0.12  Q     V    |          |          |          |
7+20       0.0404      0.12  Q     V    |          |          |          |
7+25       0.0412      0.12  Q     V    |          |          |          |
7+30       0.0421      0.13  Q     V    |          |          |          |
7+35       0.0430      0.13  Q     V    |          |          |          |
7+40       0.0440      0.14  Q     V    |          |          |          |
7+45       0.0449      0.14  Q      V   |          |          |          |
7+50       0.0459      0.14  Q      V   |          |          |          |
7+55       0.0469      0.15  Q      V   |          |          |          |
8+ 0       0.0479      0.15  Q      V   |          |          |          |
8+ 5       0.0490      0.16  Q      V   |          |          |          |
8+10       0.0502      0.17  Q      V   |          |          |          |
8+15       0.0513      0.17  Q       V  |          |          |          |
8+20       0.0525      0.17  Q       V  |          |          |          |
8+25       0.0537      0.17  Q       V  |          |          |          |
8+30       0.0549      0.17  Q       V  |          |          |          |
8+35       0.0561      0.18  Q       V  |          |          |          |
8+40       0.0574      0.18  Q        V |          |          |          |
8+45       0.0587      0.18  Q        V |          |          |          |
8+50       0.0600      0.19  Q        V |          |          |          |
8+55       0.0613      0.19  Q        V |          |          |          |
9+ 0       0.0626      0.20  Q        V |          |          |          |
9+ 5       0.0640      0.20  Q         V          |          |          |
9+10       0.0655      0.21  Q         V          |          |          |
9+15       0.0670      0.22  Q         V          |          |          |
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9+20	0.0686	0.22	Q	V
9+25	0.0701	0.23	Q	|V
9+30	0.0717	0.23	Q	|V
9+35	0.0733	0.23	Q	|V
9+40	0.0750	0.24	Q	|V
9+45	0.0767	0.24	Q	| V
9+50	0.0783	0.25	Q	| V
9+55	0.0801	0.25	|Q	| V
10+ 0	0.0818	0.25	|Q	| V
10+ 5	0.0834	0.23	Q	| V
10+10	0.0847	0.19	Q	| V
10+15	0.0860	0.18	Q	| V
10+20	0.0872	0.18	Q	| V
10+25	0.0884	0.18	Q	| V
10+30	0.0896	0.17	Q	| V
10+35	0.0909	0.19	Q	| V
10+40	0.0925	0.22	Q	| V
10+45	0.0940	0.23	Q	| V
10+50	0.0956	0.23	Q	| V
10+55	0.0972	0.23	Q	| V
11+ 0	0.0988	0.23	Q	| V
11+ 5	0.1003	0.23	Q	| V
11+10	0.1019	0.22	Q	| V
11+15	0.1034	0.22	Q	| V
11+20	0.1049	0.22	Q	| V
11+25	0.1064	0.22	Q	| V
11+30	0.1080	0.22	Q	| V
11+35	0.1094	0.21	Q	| V
11+40	0.1108	0.20	Q	| V
11+45	0.1122	0.20	Q	| V
11+50	0.1136	0.20	Q	| V
11+55	0.1150	0.21	Q	| V
12+ 0	0.1164	0.21	Q	| V
12+ 5	0.1180	0.23	Q	| V
12+10	0.1199	0.27	|Q	| V
12+15	0.1218	0.28	|Q	| V|
12+20	0.1238	0.29	|Q	| V|
12+25	0.1259	0.30	|Q	| V|
12+30	0.1279	0.30	|Q	| V
12+35	0.1300	0.31	|Q	| V
12+40	0.1322	0.32	|Q	| V
12+45	0.1344	0.32	|Q	| |V
12+50	0.1367	0.33	|Q	| |V
12+55	0.1390	0.33	|Q	| |V
13+ 0	0.1413	0.33	|Q	| | V
13+ 5	0.1443	0.44	|Q	| | V
13+10	0.1485	0.61	| Q	| | V
13+15	0.1530	0.66	| Q	| | V
13+20	0.1578	0.69	| Q	| | V
13+25	0.1628	0.72	| Q	| | V
13+30	0.1679	0.74	| Q	| | V
13+35	0.1721	0.61	| Q	| | V
13+40	0.1747	0.38	|Q	| | V
13+45	0.1769	0.32	|Q	| | V
13+50	0.1789	0.29	|Q	| | V
13+55	0.1808	0.28	|Q	| | V
14+ 0	0.1826	0.27	|Q	| | V
14+ 5	0.1846	0.28	|Q	| | V|
14+10	0.1866	0.30	|Q	| | V|
14+15	0.1888	0.31	|Q	| | V|
14+20	0.1909	0.31	|Q	| | V
14+25	0.1930	0.30	|Q	| | V
14+30	0.1950	0.30	|Q	| | V
14+35	0.1971	0.30	|Q	| | |V
14+40	0.1992	0.30	|Q	| | |V
14+45	0.2013	0.30	|Q	| | |V
14+50	0.2033	0.30	|Q	| | | V
14+55	0.2053	0.29	|Q	| | | V
15+ 0	0.2073	0.29	|Q	| | | V
15+ 5	0.2093	0.29	|Q	| | | V
15+10	0.2113	0.28	|Q	| | | V
15+15	0.2132	0.28	|Q	| | | V
15+20	0.2151	0.28	|Q	| | | V
15+25	0.2169	0.27	|Q	| | | V
15+30	0.2188	0.27	|Q	| | | V
15+35	0.2205	0.25	|Q	| | | V
15+40	0.2221	0.23	Q	| | | V
15+45	0.2237	0.23	Q	| | | V
15+50	0.2252	0.22	Q	| | | V
15+55	0.2267	0.22	Q	| | | V
16+ 0	0.2282	0.22	Q	| | | V
16+ 5	0.2294	0.17	Q	| | | V
16+10	0.2300	0.09	Q	| | | V
16+15	0.2304	0.06	Q	| | | V
16+20	0.2308	0.06	Q	| | | V
16+25	0.2312	0.05	Q	| | | V
16+30	0.2315	0.05	Q	| | | V

16+35	0.2318	0.04	Q	|	|	|	V |
16+40	0.2321	0.04	Q	|	|	|	V |
16+45	0.2323	0.04	Q	|	|	|	V |
16+50	0.2325	0.04	Q	|	|	|	V |
16+55	0.2328	0.04	Q	|	|	|	V |
17+ 0	0.2330	0.03	Q	|	|	|	V |
17+ 5	0.2333	0.04	Q	|	|	|	V |
17+10	0.2337	0.05	Q	|	|	|	V |
17+15	0.2341	0.06	Q	|	|	|	V |
17+20	0.2344	0.06	Q	|	|	|	V |
17+25	0.2348	0.06	Q	|	|	|	V |
17+30	0.2352	0.06	Q	|	|	|	V |
17+35	0.2356	0.06	Q	|	|	|	V |
17+40	0.2360	0.06	Q	|	|	|	V |
17+45	0.2364	0.06	Q	|	|	|	V |
17+50	0.2368	0.05	Q	|	|	|	V |
17+55	0.2371	0.05	Q	|	|	|	V |
18+ 0	0.2375	0.05	Q	|	|	|	V |
18+ 5	0.2378	0.05	Q	|	|	|	V |
18+10	0.2381	0.05	Q	|	|	|	V |
18+15	0.2384	0.05	Q	|	|	|	V |
18+20	0.2388	0.05	Q	|	|	|	V |
18+25	0.2391	0.05	Q	|	|	|	V |
18+30	0.2394	0.05	Q	|	|	|	V |
18+35	0.2397	0.04	Q	|	|	|	V |
18+40	0.2400	0.04	Q	|	|	|	V |
18+45	0.2402	0.04	Q	|	|	|	V |
18+50	0.2404	0.03	Q	|	|	|	V |
18+55	0.2406	0.03	Q	|	|	|	V |
19+ 0	0.2408	0.02	Q	|	|	|	V |
19+ 5	0.2410	0.03	Q	|	|	|	V |
19+10	0.2412	0.03	Q	|	|	|	V |
19+15	0.2414	0.03	Q	|	|	|	V |
19+20	0.2417	0.04	Q	|	|	|	V |
19+25	0.2420	0.04	Q	|	|	|	V |
19+30	0.2423	0.05	Q	|	|	|	V |
19+35	0.2426	0.04	Q	|	|	|	V |
19+40	0.2428	0.04	Q	|	|	|	V |
19+45	0.2431	0.04	Q	|	|	|	V |
19+50	0.2433	0.03	Q	|	|	|	V |
19+55	0.2435	0.03	Q	|	|	|	V |
20+ 0	0.2436	0.02	Q	|	|	|	V |
20+ 5	0.2438	0.03	Q	|	|	|	V |
20+10	0.2441	0.03	Q	|	|	|	V |
20+15	0.2443	0.03	Q	|	|	|	V |
20+20	0.2445	0.03	Q	|	|	|	V |
20+25	0.2448	0.03	Q	|	|	|	V |
20+30	0.2450	0.03	Q	|	|	|	V |
20+35	0.2452	0.03	Q	|	|	|	V |
20+40	0.2455	0.03	Q	|	|	|	V |
20+45	0.2457	0.03	Q	|	|	|	V |
20+50	0.2459	0.03	Q	|	|	|	V |
20+55	0.2461	0.03	Q	|	|	|	V |
21+ 0	0.2463	0.02	Q	|	|	|	V |
21+ 5	0.2465	0.03	Q	|	|	|	V |
21+10	0.2467	0.03	Q	|	|	|	V|
21+15	0.2469	0.03	Q	|	|	|	V|
21+20	0.2471	0.03	Q	|	|	|	V|
21+25	0.2473	0.03	Q	|	|	|	V|
21+30	0.2475	0.02	Q	|	|	|	V|
21+35	0.2477	0.03	Q	|	|	|	V|
21+40	0.2479	0.03	Q	|	|	|	V|
21+45	0.2481	0.03	Q	|	|	|	V|
21+50	0.2483	0.03	Q	|	|	|	V|
21+55	0.2485	0.03	Q	|	|	|	V|
22+ 0	0.2487	0.02	Q	|	|	|	V|
22+ 5	0.2489	0.03	Q	|	|	|	V|
22+10	0.2491	0.03	Q	|	|	|	V|
22+15	0.2493	0.03	Q	|	|	|	V|
22+20	0.2495	0.03	Q	|	|	|	V|
22+25	0.2497	0.03	Q	|	|	|	V|
22+30	0.2499	0.02	Q	|	|	|	V|
22+35	0.2500	0.02	Q	|	|	|	V|
22+40	0.2502	0.02	Q	|	|	|	V|
22+45	0.2503	0.02	Q	|	|	|	V|
22+50	0.2505	0.02	Q	|	|	|	V|
22+55	0.2507	0.02	Q	|	|	|	V|
23+ 0	0.2508	0.02	Q	|	|	|	V|
23+ 5	0.2510	0.02	Q	|	|	|	V|
23+10	0.2511	0.02	Q	|	|	|	V|
23+15	0.2513	0.02	Q	|	|	|	V|
23+20	0.2515	0.02	Q	|	|	|	V|
23+25	0.2516	0.02	Q	|	|	|	V|
23+30	0.2518	0.02	Q	|	|	|	V|
23+35	0.2519	0.02	Q	|	|	|	V|
23+40	0.2521	0.02	Q	|	|	|	V|
23+45	0.2523	0.02	Q	|	|	|	V|

```
  23+50       0.2524      0.02  Q          |          |          |         V|
  23+55       0.2526      0.02  Q          |          |          |         V|
  24+ 0       0.2527      0.02  Q          |          |          |         V|
  24+ 5       0.2529      0.02  Q          |          |          |         V|
  24+10       0.2529      0.01  Q          |          |          |         V|
  24+15       0.2529      0.00  Q          |          |          |         V|
  24+20       0.2529      0.00  Q          |          |          |         V|
  24+25       0.2529      0.00  Q          |          |          |          V
-------------------------------------------------------------------------------
```

```
       U n i t   H y d r o g r a p h   A n a l y s i s

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              Study date  03/01/22 File: ex11001100.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       9.87(Ac.)  =      0.015 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       9.87(Ac.)  =      0.015 Sq. Mi.
Length along longest watercourse =     912.00(Ft.)
Length along longest watercourse measured to centroid =     456.00(Ft.)
Length along longest watercourse =      0.173 Mi.
Length along longest watercourse measured to centroid =      0.086 Mi.
Difference in elevation =      15.00(Ft.)
Slope along watercourse =     86.8421 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time =    0.062 Hr.
Lag time =     3.74 Min.
25% of lag time =     0.94 Min.
40% of lag time =     1.50 Min.
Unit time =     5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            0.50                 4.93

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            1.20                11.84

STORM EVENT (YEAR) =  100.00
Area Averaged 2-Year Rainfall =    0.500(In)
Area Averaged 100-Year Rainfall =    1.200(In)

Point rain (area averaged) =    1.200(In)
Areal adjustment factor =   99.99 %
Adjusted average point rain =    1.200(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     9.870           69.00          0.000
 Total Area Entered =      9.87(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-2     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
69.0  69.0      0.373     0.000        0.373       1.000      0.373
                                                 Sum (F) =   0.373
Area averaged mean soil loss (F) (In/Hr) =  0.373
Minimum soil loss rate ((In/Hr)) =  0.186
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.900
------------------------------------------------------------------------
Slope of intensity-duration curve for a 1 hour storm =0.5000
------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
------------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
```

```
        (hrs)                          Graph %            (CFS)
      ------------------------------------------------------------------------
          1   0.083        133.611         28.998              2.884
          2   0.167        267.222         48.096              4.784
          3   0.250        400.833         12.241              1.218
          4   0.333        534.444          5.441              0.541
          5   0.417        668.055          2.969              0.295
          6   0.500        801.666          2.255              0.224
                                  Sum = 100.000   Sum=          9.947
------------------------------------------------------------------------
```

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

```
 Unit Time   Pattern   Storm Rain     Loss rate(In./Hr)     Effective
      (Hr.)  Percent   (In/Hr)         Max   |   Low         (In/Hr)
  1   0.08     4.20      0.605          0.373    (  0.544)        0.232
  2   0.17     4.30      0.619          0.373    (  0.557)        0.246
  3   0.25     5.00      0.720          0.373    (  0.648)        0.347
  4   0.33     5.00      0.720          0.373    (  0.648)        0.347
  5   0.42     5.80      0.835          0.373    (  0.752)        0.462
  6   0.50     6.50      0.936          0.373    (  0.842)        0.563
  7   0.58     7.40      1.066          0.373    (  0.959)        0.693
  8   0.67     8.60      1.238          0.373    (  1.114)        0.865
  9   0.75    12.30      1.771          0.373    (  1.594)        1.398
 10   0.83    29.10      4.190          0.373    (  3.771)        3.817
 11   0.92     6.80      0.979          0.373    (  0.881)        0.606
 12   1.00     5.00      0.720          0.373    (  0.648)        0.347
             (Loss Rate Not Used)
    Sum =     100.0                                 Sum =     9.9
      Flood volume = Effective rainfall      0.83(In)
       times area       9.9(Ac.)/[(In)/(Ft.)] =       0.7(Ac.Ft)
      Total soil loss =      0.37(In)
      Total soil loss =     0.307(Ac.Ft)
      Total rainfall =      1.20(In)
      Flood volume =       29633.2 Cubic Feet
      Total soil loss =       13356.7 Cubic Feet
      ---------------------------------------------------------------------
       Peak flow rate of this hydrograph =     22.524(CFS)
      ---------------------------------------------------------------------
      +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                          1 - 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   5   Minute intervals ((CFS))

      ---------------------------------------------------------------------
 Time(h+m) Volume Ac.Ft   Q(CFS)  0        7.5      15.0      22.5      30.0
 ------------------------------------------------------------------------
   0+ 5       0.0046      0.67  Q         |         |         |         |
   0+10       0.0172      1.82  |VQ       |         |         |         |
   0+15       0.0341      2.46  | VQ      |         |         |         |
   0+20       0.0554      3.09  |  VQ     |         |         |         |
   0+25       0.0803      3.62  |   Q     |         |         |         |
   0+30       0.1118      4.57  |    Q    |         |         |         |
   0+35       0.1504      5.60  |     QV  |         |         |         |
   0+40       0.1982      6.93  |      Q|V         |         |         |
   0+45       0.2639      9.54  |       | Q  V     |         |         |
   0+50       0.3975     19.41  |       |          |  V Q    |         |
   0+55       0.5527     22.52  |       |          |         Q V       |
   1+ 0       0.6196      9.72  |       | Q        |         |     V   |
   1+ 5       0.6546      5.07  |    Q    |        |         |       V |
   1+10       0.6697      2.19  | Q       |        |         |        V|
   1+15       0.6781      1.22  |Q        |        |         |        V|
   1+20       0.6797      0.24  Q         |        |         |        V|
   1+25       0.6803      0.08  Q         |        |         |         V
------------------------------------------------------------------------
```

```
       U n i t   H y d r o g r a p h   A n a l y s i s

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              Study date  03/01/22 File: ex11003100.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       9.87(Ac.)  =      0.015 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       9.87(Ac.)  =      0.015 Sq. Mi.
Length along longest watercourse =     912.00(Ft.)
Length along longest watercourse measured to centroid =     456.00(Ft.)
Length along longest watercourse =      0.173 Mi.
Length along longest watercourse measured to centroid =      0.086 Mi.
Difference in elevation =      15.00(Ft.)
Slope along watercourse =     86.8421 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time =    0.062 Hr.
Lag time =     3.74 Min.
25% of lag time =     0.94 Min.
40% of lag time =     1.50 Min.
Unit time =     5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            0.80                 7.90

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            1.90                18.75

STORM EVENT (YEAR) =  100.00
Area Averaged 2-Year Rainfall =    0.800(In)
Area Averaged 100-Year Rainfall =    1.900(In)

Point rain (area averaged) =    1.900(In)
Areal adjustment factor =  100.00 %
Adjusted average point rain =    1.900(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     9.870           69.00          0.000
 Total Area Entered =      9.87(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-2     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
69.0  69.0      0.373     0.000        0.373       1.000      0.373
                                                 Sum (F) =   0.373
Area averaged mean soil loss (F) (In/Hr) =  0.373
Minimum soil loss rate ((In/Hr)) =  0.186
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.900
------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
    (hrs)                          Graph %           (CFS)
------------------------------------------------------------------------
```

1	0.083	133.611	28.998	2.884
2	0.167	267.222	48.096	4.784
3	0.250	400.833	12.241	1.218
4	0.333	534.444	5.441	0.541
5	0.417	668.055	2.969	0.295
6	0.500	801.666	2.255	0.224
			Sum = 100.000 Sum=	9.947

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	1.30	0.296	(0.373)	0.267	0.030
2	0.17	1.30	0.296	(0.373)	0.267	0.030
3	0.25	1.10	0.251	(0.373)	0.226	0.025
4	0.33	1.50	0.342	(0.373)	0.308	0.034
5	0.42	1.50	0.342	(0.373)	0.308	0.034
6	0.50	1.80	0.410	(0.373)	0.369	0.041
7	0.58	1.50	0.342	(0.373)	0.308	0.034
8	0.67	1.80	0.410	(0.373)	0.369	0.041
9	0.75	1.80	0.410	(0.373)	0.369	0.041
10	0.83	1.50	0.342	(0.373)	0.308	0.034
11	0.92	1.60	0.365	(0.373)	0.328	0.036
12	1.00	1.80	0.410	(0.373)	0.369	0.041
13	1.08	2.20	0.502	0.373	(0.451)	0.129
14	1.17	2.20	0.502	0.373	(0.451)	0.129
15	1.25	2.20	0.502	0.373	(0.451)	0.129
16	1.33	2.00	0.456	0.373	(0.410)	0.083
17	1.42	2.60	0.593	0.373	(0.533)	0.220
18	1.50	2.70	0.616	0.373	(0.554)	0.243
19	1.58	2.40	0.547	0.373	(0.492)	0.174
20	1.67	2.70	0.616	0.373	(0.554)	0.243
21	1.75	3.30	0.752	0.373	(0.677)	0.380
22	1.83	3.10	0.707	0.373	(0.636)	0.334
23	1.92	2.90	0.661	0.373	(0.595)	0.288
24	2.00	3.00	0.684	0.373	(0.616)	0.311
25	2.08	3.10	0.707	0.373	(0.636)	0.334
26	2.17	4.20	0.958	0.373	(0.862)	0.585
27	2.25	5.00	1.140	0.373	(1.026)	0.767
28	2.33	3.50	0.798	0.373	(0.718)	0.425
29	2.42	6.80	1.550	0.373	(1.395)	1.178
30	2.50	7.30	1.664	0.373	(1.498)	1.292
31	2.58	8.20	1.870	0.373	(1.683)	1.497
32	2.67	5.90	1.345	0.373	(1.211)	0.972
33	2.75	2.00	0.456	0.373	(0.410)	0.083
34	2.83	1.80	0.410	(0.373)	0.369	0.041
35	2.92	1.80	0.410	(0.373)	0.369	0.041
36	3.00	0.60	0.137	(0.373)	0.123	0.014
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	10.3

Flood volume = Effective rainfall 0.86(In)
times area 9.9(Ac.)/[(In)/(Ft.)] = 0.7(Ac.Ft)
Total soil loss = 1.04(In)
Total soil loss = 0.856(Ac.Ft)
Total rainfall = 1.90(In)
Flood volume = 30789.4 Cubic Feet
Total soil loss = 37281.0 Cubic Feet

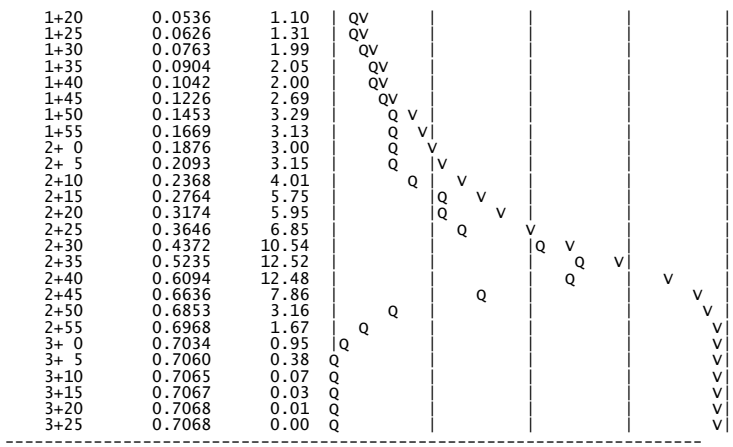
Peak flow rate of this hydrograph = 12.524(CFS)

++

3 - 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 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	5.0	10.0	15.0	20.0
0+ 5	0.0006	0.09	Q				
0+10	0.0022	0.23	Q				
0+15	0.0039	0.25	Q				
0+20	0.0057	0.27	Q				
0+25	0.0079	0.32	Q				
0+30	0.0104	0.35	Q				
0+35	0.0129	0.37	Q				
0+40	0.0154	0.37	Q				
0+45	0.0182	0.40	QV				
0+50	0.0208	0.38	QV				
0+55	0.0233	0.36	QV				
1+ 0	0.0259	0.38	QV				
1+ 5	0.0304	0.65	|Q				
1+10	0.0378	1.08	| Q				
1+15	0.0460	1.19	| Q				


1+20 0.0536 1.10
1+25 0.0626 1.31
1+30 0.0763 1.99
1+35 0.0904 2.05
1+40 0.1042 2.00
1+45 0.1226 2.69
1+50 0.1453 3.29
1+55 0.1669 3.13
2+ 0 0.1876 3.00
2+ 5 0.2093 3.15
2+10 0.2368 4.01
2+15 0.2764 5.75
2+20 0.3174 5.95
2+25 0.3646 6.85
2+30 0.4372 10.54
2+35 0.5235 12.52
2+40 0.6094 12.48
2+45 0.6636 7.86
2+50 0.6853 3.16
2+55 0.6968 1.67
3+ 0 0.7034 0.95
3+ 5 0.7060 0.38
3+10 0.7065 0.07
3+15 0.7067 0.03
3+20 0.7068 0.01
3+25 0.7068 0.00

```
       U n i t   H y d r o g r a p h   A n a l y s i s

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              Study date  03/01/22 File: ex11006100.out

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------------------------------------------------------------------------------

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------------
------------------------------------------------------------------------------
Drainage Area =       9.87(Ac.)  =      0.015 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       9.87(Ac.)  =      0.015 Sq. Mi.
Length along longest watercourse =     912.00(Ft.)
Length along longest watercourse measured to centroid =     456.00(Ft.)
Length along longest watercourse =      0.173 Mi.
Length along longest watercourse measured to centroid =      0.086 Mi.
Difference in elevation =      15.00(Ft.)
Slope along watercourse =     86.8421 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time =    0.062 Hr.
Lag time =     3.74 Min.
25% of lag time =     0.94 Min.
40% of lag time =     1.50 Min.
Unit time =     5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            1.20                11.84

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            2.50                24.67

STORM EVENT (YEAR) =  100.00
Area Averaged 2-Year Rainfall =    1.200(In)
Area Averaged 100-Year Rainfall =    2.500(In)

Point rain (area averaged) =    2.500(In)
Areal adjustment factor =  100.00 %
Adjusted average point rain =    2.500(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     9.870           69.00          0.000
 Total Area Entered =      9.87(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-2     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
69.0  69.0      0.373     0.000        0.373       1.000      0.373
                                                 Sum (F) =   0.373
Area averaged mean soil loss (F) (In/Hr) =  0.373
Minimum soil loss rate ((In/Hr)) =  0.186
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.900
------------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
------------------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
    (hrs)                          Graph %           (CFS)
------------------------------------------------------------------------------
```

1	0.083	133.611	28.998		2.884
2	0.167	267.222	48.096		4.784
3	0.250	400.833	12.241		1.218
4	0.333	534.444	5.441		0.541
5	0.417	668.055	2.969		0.295
6	0.500	801.666	2.255		0.224
			Sum = 100.000	Sum=	9.947

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.150	(0.373)	0.135	0.015
2	0.17	0.60	0.180	(0.373)	0.162	0.018
3	0.25	0.60	0.180	(0.373)	0.162	0.018
4	0.33	0.60	0.180	(0.373)	0.162	0.018
5	0.42	0.60	0.180	(0.373)	0.162	0.018
6	0.50	0.70	0.210	(0.373)	0.189	0.021
7	0.58	0.70	0.210	(0.373)	0.189	0.021
8	0.67	0.70	0.210	(0.373)	0.189	0.021
9	0.75	0.70	0.210	(0.373)	0.189	0.021
10	0.83	0.70	0.210	(0.373)	0.189	0.021
11	0.92	0.70	0.210	(0.373)	0.189	0.021
12	1.00	0.80	0.240	(0.373)	0.216	0.024
13	1.08	0.80	0.240	(0.373)	0.216	0.024
14	1.17	0.80	0.240	(0.373)	0.216	0.024
15	1.25	0.80	0.240	(0.373)	0.216	0.024
16	1.33	0.80	0.240	(0.373)	0.216	0.024
17	1.42	0.80	0.240	(0.373)	0.216	0.024
18	1.50	0.80	0.240	(0.373)	0.216	0.024
19	1.58	0.80	0.240	(0.373)	0.216	0.024
20	1.67	0.80	0.240	(0.373)	0.216	0.024
21	1.75	0.80	0.240	(0.373)	0.216	0.024
22	1.83	0.80	0.240	(0.373)	0.216	0.024
23	1.92	0.80	0.240	(0.373)	0.216	0.024
24	2.00	0.90	0.270	(0.373)	0.243	0.027
25	2.08	0.80	0.240	(0.373)	0.216	0.024
26	2.17	0.90	0.270	(0.373)	0.243	0.027
27	2.25	0.90	0.270	(0.373)	0.243	0.027
28	2.33	0.90	0.270	(0.373)	0.243	0.027
29	2.42	0.90	0.270	(0.373)	0.243	0.027
30	2.50	0.90	0.270	(0.373)	0.243	0.027
31	2.58	0.90	0.270	(0.373)	0.243	0.027
32	2.67	0.90	0.270	(0.373)	0.243	0.027
33	2.75	1.00	0.300	(0.373)	0.270	0.030
34	2.83	1.00	0.300	(0.373)	0.270	0.030
35	2.92	1.00	0.300	(0.373)	0.270	0.030
36	3.00	1.00	0.300	(0.373)	0.270	0.030
37	3.08	1.00	0.300	(0.373)	0.270	0.030
38	3.17	1.10	0.330	(0.373)	0.297	0.033
39	3.25	1.10	0.330	(0.373)	0.297	0.033
40	3.33	1.10	0.330	(0.373)	0.297	0.033
41	3.42	1.20	0.360	(0.373)	0.324	0.036
42	3.50	1.30	0.390	(0.373)	0.351	0.039
43	3.58	1.40	0.420	0.373	(0.378)	0.047
44	3.67	1.40	0.420	0.373	(0.378)	0.047
45	3.75	1.50	0.450	0.373	(0.405)	0.077
46	3.83	1.50	0.450	0.373	(0.405)	0.077
47	3.92	1.60	0.480	0.373	(0.432)	0.107
48	4.00	1.60	0.480	0.373	(0.432)	0.107
49	4.08	1.70	0.510	0.373	(0.459)	0.137
50	4.17	1.80	0.540	0.373	(0.486)	0.167
51	4.25	1.90	0.570	0.373	(0.513)	0.197
52	4.33	2.00	0.600	0.373	(0.540)	0.227
53	4.42	2.10	0.630	0.373	(0.567)	0.257
54	4.50	2.10	0.630	0.373	(0.567)	0.257
55	4.58	2.20	0.660	0.373	(0.594)	0.287
56	4.67	2.30	0.690	0.373	(0.621)	0.317
57	4.75	2.40	0.720	0.373	(0.648)	0.347
58	4.83	2.40	0.720	0.373	(0.648)	0.347
59	4.92	2.50	0.750	0.373	(0.675)	0.377
60	5.00	2.60	0.780	0.373	(0.702)	0.407
61	5.08	3.10	0.930	0.373	(0.837)	0.557
62	5.17	3.60	1.080	0.373	(0.972)	0.707
63	5.25	3.90	1.170	0.373	(1.053)	0.797
64	5.33	4.20	1.260	0.373	(1.134)	0.887
65	5.42	4.70	1.410	0.373	(1.269)	1.037
66	5.50	5.60	1.680	0.373	(1.512)	1.307
67	5.58	1.90	0.570	0.373	(0.513)	0.197
68	5.67	0.90	0.270	(0.373)	0.243	0.027
69	5.75	0.60	0.180	(0.373)	0.162	0.018
70	5.83	0.50	0.150	(0.373)	0.135	0.015
71	5.92	0.30	0.090	(0.373)	0.081	0.009
72	6.00	0.20	0.060	(0.373)	0.054	0.006

```
            (Loss Rate Not Used)
 Sum =     100.0                                  Sum =    10.4
    Flood volume = Effective rainfall      0.87(In)
     times area       9.9(Ac.)/[(In)/(Ft.)] =       0.7(Ac.Ft)
    Total soil loss =      1.63(In)
    Total soil loss =     1.342(Ac.Ft)
    Total rainfall =      2.50(In)
    Flood volume =       31108.7 Cubic Feet
    Total soil loss =       58458.5 Cubic Feet
    ---------------------------------------------------------------------
     Peak flow rate of this hydrograph =     10.583(CFS)
    ---------------------------------------------------------------------
    +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                          6 - 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   5   Minute intervals ((CFS))

    ---------------------------------------------------------------------
Time(h+m) Volume Ac.Ft   Q(CFS)  0        5.0      10.0      15.0      20.0
-----------------------------------------------------------------------------
  0+ 5       0.0003      0.04  Q          |          |          |          |
  0+10       0.0012      0.12  Q          |          |          |          |
  0+15       0.0022      0.16  Q          |          |          |          |
  0+20       0.0034      0.17  Q          |          |          |          |
  0+25       0.0046      0.17  Q          |          |          |          |
  0+30       0.0059      0.19  Q          |          |          |          |
  0+35       0.0073      0.20  Q          |          |          |          |
  0+40       0.0087      0.21  Q          |          |          |          |
  0+45       0.0101      0.21  Q          |          |          |          |
  0+50       0.0115      0.21  Q          |          |          |          |
  0+55       0.0130      0.21  Q          |          |          |          |
  1+ 0       0.0145      0.22  Q          |          |          |          |
  1+ 5       0.0161      0.23  Q          |          |          |          |
  1+10       0.0177      0.24  Q          |          |          |          |
  1+15       0.0193      0.24  QV         |          |          |          |
  1+20       0.0210      0.24  QV         |          |          |          |
  1+25       0.0226      0.24  QV         |          |          |          |
  1+30       0.0243      0.24  QV         |          |          |          |
  1+35       0.0259      0.24  QV         |          |          |          |
  1+40       0.0276      0.24  QV         |          |          |          |
  1+45       0.0292      0.24  QV         |          |          |          |
  1+50       0.0309      0.24  QV         |          |          |          |
  1+55       0.0325      0.24  QV         |          |          |          |
  2+ 0       0.0342      0.25  QV         |          |          |          |
  2+ 5       0.0359      0.25  Q V        |          |          |          |
  2+10       0.0377      0.25  Q V        |          |          |          |
  2+15       0.0395      0.26  Q V        |          |          |          |
  2+20       0.0413      0.27  Q V        |          |          |          |
  2+25       0.0432      0.27  Q V        |          |          |          |
  2+30       0.0450      0.27  Q V        |          |          |          |
  2+35       0.0469      0.27  Q V        |          |          |          |
  2+40       0.0487      0.27  Q V        |          |          |          |
  2+45       0.0506      0.28  Q V        |          |          |          |
  2+50       0.0526      0.29  Q V        |          |          |          |
  2+55       0.0547      0.30  Q  V       |          |          |          |
  3+ 0       0.0567      0.30  Q  V       |          |          |          |
  3+ 5       0.0588      0.30  Q  V       |          |          |          |
  3+10       0.0609      0.31  Q  V       |          |          |          |
  3+15       0.0631      0.32  Q  V       |          |          |          |
  3+20       0.0653      0.33  Q  V       |          |          |          |
  3+25       0.0676      0.34  Q  V       |          |          |          |
  3+30       0.0701      0.36  Q  V       |          |          |          |
  3+35       0.0729      0.40  Q   V      |          |          |          |
  3+40       0.0760      0.45  Q   V      |          |          |          |
  3+45       0.0797      0.55  |Q  V      |          |          |          |
  3+50       0.0845      0.69  |Q  V      |          |          |          |
  3+55       0.0902      0.82  |Q   V     |          |          |          |
  4+ 0       0.0969      0.98  |Q   V     |          |          |          |
  4+ 5       0.1046      1.11  | Q  V     |          |          |          |
  4+10       0.1140      1.37  | Q   V    |          |          |          |
  4+15       0.1253      1.64  |  Q   V   |          |          |          |
  4+20       0.1387      1.93  |  Q   V   |          |          |          |
  4+25       0.1540      2.22  |   Q   V  |          |          |          |
  4+30       0.1708      2.44  |   Q    V |          |          |          |
  4+35       0.1886      2.59  |    Q    V|          |          |          |
  4+40       0.2083      2.85  |    Q     |V         |          |          |
  4+45       0.2299      3.14  |     Q    | V        |          |          |
  4+50       0.2529      3.34  |     Q    |  V       |          |          |
  4+55       0.2769      3.49  |     Q    |   V      |          |          |
  5+ 0       0.3027      3.75  |      Q   |    V     |          |          |
  5+ 5       0.3329      4.38  |       Q  |     V    |          |          |
  5+10       0.3713      5.59  |          |Q       V |          |          |
  5+15       0.4180      6.77  |          |  Q       |  V       |          |
  5+20       0.4713      7.74  |          |   Q      |     V    |          |
  5+25       0.5323      8.85  |          |    Q     |      V   |          |
  5+30       0.6052     10.58  |          |          |Q        |  V       |
```

```
   5+35       0.6669      8.96  |         |       Q  |          |       V   |
   5+40       0.6918      3.62  |       Q  |          |          |        V  |
   5+45       0.7031      1.63  |   Q      |          |          |         V |
   5+50       0.7092      0.89  |Q         |          |          |         V |
   5+55       0.7125      0.49  Q          |          |          |         V |
   6+ 0       0.7135      0.14  Q          |          |          |         V |
   6+ 5       0.7139      0.06  Q          |          |          |         V |
   6+10       0.7141      0.02  Q          |          |          |         V |
   6+15       0.7141      0.01  Q          |          |          |         V |
   6+20       0.7141      0.00  Q          |          |          |         V |
   6+25       0.7142      0.00  Q          |          |          |          V
-------------------------------------------------------------------------------
```

```
       U n i t   H y d r o g r a p h   A n a l y s i s

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              Study date  03/01/22 File: ex110024100.out

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------------------------------------------------------------------------------

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       9.87(Ac.)  =      0.015 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       9.87(Ac.)  =      0.015 Sq. Mi.
Length along longest watercourse =     912.00(Ft.)
Length along longest watercourse measured to centroid =     456.00(Ft.)
Length along longest watercourse =      0.173 Mi.
Length along longest watercourse measured to centroid =      0.086 Mi.
Difference in elevation =      15.00(Ft.)
Slope along watercourse =     86.8421 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time =    0.062 Hr.
Lag time =     3.74 Min.
25% of lag time =     0.94 Min.
40% of lag time =     1.50 Min.
Unit time =     5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            1.80                17.77

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            4.50                44.41

STORM EVENT (YEAR) =  100.00
Area Averaged 2-Year Rainfall =    1.800(In)
Area Averaged 100-Year Rainfall =    4.500(In)

Point rain (area averaged) =    4.500(In)
Areal adjustment factor =  100.00 %
Adjusted average point rain =    4.500(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     9.870           69.00          0.000
 Total Area Entered =      9.87(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-2     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
69.0  69.0      0.373     0.000        0.373       1.000      0.373
                                                 Sum (F) =   0.373
Area averaged mean soil loss (F) (In/Hr) =  0.373
Minimum soil loss rate ((In/Hr)) =  0.186
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.900
------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
-------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
    (hrs)                          Graph %           (CFS)
------------------------------------------------------------------------
```

1	0.083	133.611	28.998	2.884
2	0.167	267.222	48.096	4.784
3	0.250	400.833	12.241	1.218
4	0.333	534.444	5.441	0.541
5	0.417	668.055	2.969	0.295
6	0.500	801.666	2.255	0.224
			Sum = 100.000 Sum=	9.947

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.036	(0.661)	0.032	0.004
2	0.17	0.07	0.036	(0.658)	0.032	0.004
3	0.25	0.07	0.036	(0.656)	0.032	0.004
4	0.33	0.10	0.054	(0.653)	0.049	0.005
5	0.42	0.10	0.054	(0.651)	0.049	0.005
6	0.50	0.10	0.054	(0.648)	0.049	0.005
7	0.58	0.10	0.054	(0.646)	0.049	0.005
8	0.67	0.10	0.054	(0.643)	0.049	0.005
9	0.75	0.10	0.054	(0.641)	0.049	0.005
10	0.83	0.13	0.072	(0.638)	0.065	0.007
11	0.92	0.13	0.072	(0.636)	0.065	0.007
12	1.00	0.13	0.072	(0.633)	0.065	0.007
13	1.08	0.10	0.054	(0.631)	0.049	0.005
14	1.17	0.10	0.054	(0.628)	0.049	0.005
15	1.25	0.10	0.054	(0.626)	0.049	0.005
16	1.33	0.10	0.054	(0.623)	0.049	0.005
17	1.42	0.10	0.054	(0.621)	0.049	0.005
18	1.50	0.10	0.054	(0.618)	0.049	0.005
19	1.58	0.10	0.054	(0.616)	0.049	0.005
20	1.67	0.10	0.054	(0.613)	0.049	0.005
21	1.75	0.10	0.054	(0.611)	0.049	0.005
22	1.83	0.13	0.072	(0.608)	0.065	0.007
23	1.92	0.13	0.072	(0.606)	0.065	0.007
24	2.00	0.13	0.072	(0.603)	0.065	0.007
25	2.08	0.13	0.072	(0.601)	0.065	0.007
26	2.17	0.13	0.072	(0.598)	0.065	0.007
27	2.25	0.13	0.072	(0.596)	0.065	0.007
28	2.33	0.13	0.072	(0.594)	0.065	0.007
29	2.42	0.13	0.072	(0.591)	0.065	0.007
30	2.50	0.13	0.072	(0.589)	0.065	0.007
31	2.58	0.17	0.090	(0.586)	0.081	0.009
32	2.67	0.17	0.090	(0.584)	0.081	0.009
33	2.75	0.17	0.090	(0.582)	0.081	0.009
34	2.83	0.17	0.090	(0.579)	0.081	0.009
35	2.92	0.17	0.090	(0.577)	0.081	0.009
36	3.00	0.17	0.090	(0.574)	0.081	0.009
37	3.08	0.17	0.090	(0.572)	0.081	0.009
38	3.17	0.17	0.090	(0.570)	0.081	0.009
39	3.25	0.17	0.090	(0.567)	0.081	0.009
40	3.33	0.17	0.090	(0.565)	0.081	0.009
41	3.42	0.17	0.090	(0.563)	0.081	0.009
42	3.50	0.17	0.090	(0.560)	0.081	0.009
43	3.58	0.17	0.090	(0.558)	0.081	0.009
44	3.67	0.17	0.090	(0.556)	0.081	0.009
45	3.75	0.17	0.090	(0.553)	0.081	0.009
46	3.83	0.20	0.108	(0.551)	0.097	0.011
47	3.92	0.20	0.108	(0.549)	0.097	0.011
48	4.00	0.20	0.108	(0.546)	0.097	0.011
49	4.08	0.20	0.108	(0.544)	0.097	0.011
50	4.17	0.20	0.108	(0.542)	0.097	0.011
51	4.25	0.20	0.108	(0.539)	0.097	0.011
52	4.33	0.23	0.126	(0.537)	0.113	0.013
53	4.42	0.23	0.126	(0.535)	0.113	0.013
54	4.50	0.23	0.126	(0.532)	0.113	0.013
55	4.58	0.23	0.126	(0.530)	0.113	0.013
56	4.67	0.23	0.126	(0.528)	0.113	0.013
57	4.75	0.23	0.126	(0.526)	0.113	0.013
58	4.83	0.27	0.144	(0.523)	0.130	0.014
59	4.92	0.27	0.144	(0.521)	0.130	0.014
60	5.00	0.27	0.144	(0.519)	0.130	0.014
61	5.08	0.20	0.108	(0.516)	0.097	0.011
62	5.17	0.20	0.108	(0.514)	0.097	0.011
63	5.25	0.20	0.108	(0.512)	0.097	0.011
64	5.33	0.23	0.126	(0.510)	0.113	0.013
65	5.42	0.23	0.126	(0.508)	0.113	0.013
66	5.50	0.23	0.126	(0.505)	0.113	0.013
67	5.58	0.27	0.144	(0.503)	0.130	0.014
68	5.67	0.27	0.144	(0.501)	0.130	0.014
69	5.75	0.27	0.144	(0.499)	0.130	0.014
70	5.83	0.27	0.144	(0.496)	0.130	0.014
71	5.92	0.27	0.144	(0.494)	0.130	0.014
72	6.00	0.27	0.144	(0.492)	0.130	0.014

73	6.08	0.30	0.162	(0.490)	0.146	0.016
74	6.17	0.30	0.162	(0.488)	0.146	0.016
75	6.25	0.30	0.162	(0.486)	0.146	0.016
76	6.33	0.30	0.162	(0.483)	0.146	0.016
77	6.42	0.30	0.162	(0.481)	0.146	0.016
78	6.50	0.30	0.162	(0.479)	0.146	0.016
79	6.58	0.33	0.180	(0.477)	0.162	0.018
80	6.67	0.33	0.180	(0.475)	0.162	0.018
81	6.75	0.33	0.180	(0.473)	0.162	0.018
82	6.83	0.33	0.180	(0.470)	0.162	0.018
83	6.92	0.33	0.180	(0.468)	0.162	0.018
84	7.00	0.33	0.180	(0.466)	0.162	0.018
85	7.08	0.33	0.180	(0.464)	0.162	0.018
86	7.17	0.33	0.180	(0.462)	0.162	0.018
87	7.25	0.33	0.180	(0.460)	0.162	0.018
88	7.33	0.37	0.198	(0.458)	0.178	0.020
89	7.42	0.37	0.198	(0.456)	0.178	0.020
90	7.50	0.37	0.198	(0.454)	0.178	0.020
91	7.58	0.40	0.216	(0.452)	0.194	0.022
92	7.67	0.40	0.216	(0.449)	0.194	0.022
93	7.75	0.40	0.216	(0.447)	0.194	0.022
94	7.83	0.43	0.234	(0.445)	0.211	0.023
95	7.92	0.43	0.234	(0.443)	0.211	0.023
96	8.00	0.43	0.234	(0.441)	0.211	0.023
97	8.08	0.50	0.270	(0.439)	0.243	0.027
98	8.17	0.50	0.270	(0.437)	0.243	0.027
99	8.25	0.50	0.270	(0.435)	0.243	0.027
100	8.33	0.50	0.270	(0.433)	0.243	0.027
101	8.42	0.50	0.270	(0.431)	0.243	0.027
102	8.50	0.50	0.270	(0.429)	0.243	0.027
103	8.58	0.53	0.288	(0.427)	0.259	0.029
104	8.67	0.53	0.288	(0.425)	0.259	0.029
105	8.75	0.53	0.288	(0.423)	0.259	0.029
106	8.83	0.57	0.306	(0.421)	0.275	0.031
107	8.92	0.57	0.306	(0.419)	0.275	0.031
108	9.00	0.57	0.306	(0.417)	0.275	0.031
109	9.08	0.63	0.342	(0.415)	0.308	0.034
110	9.17	0.63	0.342	(0.413)	0.308	0.034
111	9.25	0.63	0.342	(0.411)	0.308	0.034
112	9.33	0.67	0.360	(0.409)	0.324	0.036
113	9.42	0.67	0.360	(0.407)	0.324	0.036
114	9.50	0.67	0.360	(0.405)	0.324	0.036
115	9.58	0.70	0.378	(0.403)	0.340	0.038
116	9.67	0.70	0.378	(0.401)	0.340	0.038
117	9.75	0.70	0.378	(0.399)	0.340	0.038
118	9.83	0.73	0.396	(0.398)	0.356	0.040
119	9.92	0.73	0.396	(0.396)	0.356	0.040
120	10.00	0.73	0.396	(0.394)	0.356	0.040
121	10.08	0.50	0.270	(0.392)	0.243	0.027
122	10.17	0.50	0.270	(0.390)	0.243	0.027
123	10.25	0.50	0.270	(0.388)	0.243	0.027
124	10.33	0.50	0.270	(0.386)	0.243	0.027
125	10.42	0.50	0.270	(0.384)	0.243	0.027
126	10.50	0.50	0.270	(0.382)	0.243	0.027
127	10.58	0.67	0.360	(0.380)	0.324	0.036
128	10.67	0.67	0.360	(0.379)	0.324	0.036
129	10.75	0.67	0.360	(0.377)	0.324	0.036
130	10.83	0.67	0.360	(0.375)	0.324	0.036
131	10.92	0.67	0.360	(0.373)	0.324	0.036
132	11.00	0.67	0.360	(0.371)	0.324	0.036
133	11.08	0.63	0.342	(0.369)	0.308	0.034
134	11.17	0.63	0.342	(0.368)	0.308	0.034
135	11.25	0.63	0.342	(0.366)	0.308	0.034
136	11.33	0.63	0.342	(0.364)	0.308	0.034
137	11.42	0.63	0.342	(0.362)	0.308	0.034
138	11.50	0.63	0.342	(0.360)	0.308	0.034
139	11.58	0.57	0.306	(0.359)	0.275	0.031
140	11.67	0.57	0.306	(0.357)	0.275	0.031
141	11.75	0.57	0.306	(0.355)	0.275	0.031
142	11.83	0.60	0.324	(0.353)	0.292	0.032
143	11.92	0.60	0.324	(0.352)	0.292	0.032
144	12.00	0.60	0.324	(0.350)	0.292	0.032
145	12.08	0.83	0.450	0.348	(0.405)	0.102
146	12.17	0.83	0.450	0.346	(0.405)	0.104
147	12.25	0.83	0.450	0.345	(0.405)	0.105
148	12.33	0.87	0.468	0.343	(0.421)	0.125
149	12.42	0.87	0.468	0.341	(0.421)	0.127
150	12.50	0.87	0.468	0.339	(0.421)	0.129
151	12.58	0.93	0.504	0.338	(0.454)	0.166
152	12.67	0.93	0.504	0.336	(0.454)	0.168
153	12.75	0.93	0.504	0.334	(0.454)	0.170
154	12.83	0.97	0.522	0.333	(0.470)	0.189
155	12.92	0.97	0.522	0.331	(0.470)	0.191
156	13.00	0.97	0.522	0.329	(0.470)	0.193
157	13.08	1.13	0.612	0.328	(0.551)	0.284
158	13.17	1.13	0.612	0.326	(0.551)	0.286
159	13.25	1.13	0.612	0.324	(0.551)	0.288

160	13.33	1.13	0.612	0.323	(0.551)	0.289
161	13.42	1.13	0.612	0.321	(0.551)	0.291
162	13.50	1.13	0.612	0.319	(0.551)	0.293
163	13.58	0.77	0.414	0.318	(0.373)	0.096
164	13.67	0.77	0.414	0.316	(0.373)	0.098
165	13.75	0.77	0.414	0.314	(0.373)	0.100
166	13.83	0.77	0.414	0.313	(0.373)	0.101
167	13.92	0.77	0.414	0.311	(0.373)	0.103
168	14.00	0.77	0.414	0.310	(0.373)	0.104
169	14.08	0.90	0.486	0.308	(0.437)	0.178
170	14.17	0.90	0.486	0.307	(0.437)	0.179
171	14.25	0.90	0.486	0.305	(0.437)	0.181
172	14.33	0.87	0.468	0.303	(0.421)	0.165
173	14.42	0.87	0.468	0.302	(0.421)	0.166
174	14.50	0.87	0.468	0.300	(0.421)	0.168
175	14.58	0.87	0.468	0.299	(0.421)	0.169
176	14.67	0.87	0.468	0.297	(0.421)	0.171
177	14.75	0.87	0.468	0.296	(0.421)	0.172
178	14.83	0.83	0.450	0.294	(0.405)	0.156
179	14.92	0.83	0.450	0.293	(0.405)	0.157
180	15.00	0.83	0.450	0.291	(0.405)	0.159
181	15.08	0.80	0.432	0.290	(0.389)	0.142
182	15.17	0.80	0.432	0.288	(0.389)	0.144
183	15.25	0.80	0.432	0.287	(0.389)	0.145
184	15.33	0.77	0.414	0.285	(0.373)	0.129
185	15.42	0.77	0.414	0.284	(0.373)	0.130
186	15.50	0.77	0.414	0.282	(0.373)	0.132
187	15.58	0.63	0.342	0.281	(0.308)	0.061
188	15.67	0.63	0.342	0.279	(0.308)	0.063
189	15.75	0.63	0.342	0.278	(0.308)	0.064
190	15.83	0.63	0.342	0.277	(0.308)	0.065
191	15.92	0.63	0.342	0.275	(0.308)	0.067
192	16.00	0.63	0.342	0.274	(0.308)	0.068
193	16.08	0.13	0.072	(0.272)	0.065	0.007
194	16.17	0.13	0.072	(0.271)	0.065	0.007
195	16.25	0.13	0.072	(0.270)	0.065	0.007
196	16.33	0.13	0.072	(0.268)	0.065	0.007
197	16.42	0.13	0.072	(0.267)	0.065	0.007
198	16.50	0.13	0.072	(0.265)	0.065	0.007
199	16.58	0.10	0.054	(0.264)	0.049	0.005
200	16.67	0.10	0.054	(0.263)	0.049	0.005
201	16.75	0.10	0.054	(0.261)	0.049	0.005
202	16.83	0.10	0.054	(0.260)	0.049	0.005
203	16.92	0.10	0.054	(0.259)	0.049	0.005
204	17.00	0.10	0.054	(0.258)	0.049	0.005
205	17.08	0.17	0.090	(0.256)	0.081	0.009
206	17.17	0.17	0.090	(0.255)	0.081	0.009
207	17.25	0.17	0.090	(0.254)	0.081	0.009
208	17.33	0.17	0.090	(0.252)	0.081	0.009
209	17.42	0.17	0.090	(0.251)	0.081	0.009
210	17.50	0.17	0.090	(0.250)	0.081	0.009
211	17.58	0.17	0.090	(0.249)	0.081	0.009
212	17.67	0.17	0.090	(0.247)	0.081	0.009
213	17.75	0.17	0.090	(0.246)	0.081	0.009
214	17.83	0.13	0.072	(0.245)	0.065	0.007
215	17.92	0.13	0.072	(0.244)	0.065	0.007
216	18.00	0.13	0.072	(0.242)	0.065	0.007
217	18.08	0.13	0.072	(0.241)	0.065	0.007
218	18.17	0.13	0.072	(0.240)	0.065	0.007
219	18.25	0.13	0.072	(0.239)	0.065	0.007
220	18.33	0.13	0.072	(0.238)	0.065	0.007
221	18.42	0.13	0.072	(0.237)	0.065	0.007
222	18.50	0.13	0.072	(0.235)	0.065	0.007
223	18.58	0.10	0.054	(0.234)	0.049	0.005
224	18.67	0.10	0.054	(0.233)	0.049	0.005
225	18.75	0.10	0.054	(0.232)	0.049	0.005
226	18.83	0.07	0.036	(0.231)	0.032	0.004
227	18.92	0.07	0.036	(0.230)	0.032	0.004
228	19.00	0.07	0.036	(0.229)	0.032	0.004
229	19.08	0.10	0.054	(0.228)	0.049	0.005
230	19.17	0.10	0.054	(0.227)	0.049	0.005
231	19.25	0.10	0.054	(0.226)	0.049	0.005
232	19.33	0.13	0.072	(0.225)	0.065	0.007
233	19.42	0.13	0.072	(0.223)	0.065	0.007
234	19.50	0.13	0.072	(0.222)	0.065	0.007
235	19.58	0.10	0.054	(0.221)	0.049	0.005
236	19.67	0.10	0.054	(0.220)	0.049	0.005
237	19.75	0.10	0.054	(0.219)	0.049	0.005
238	19.83	0.07	0.036	(0.218)	0.032	0.004
239	19.92	0.07	0.036	(0.217)	0.032	0.004
240	20.00	0.07	0.036	(0.216)	0.032	0.004
241	20.08	0.10	0.054	(0.216)	0.049	0.005
242	20.17	0.10	0.054	(0.215)	0.049	0.005
243	20.25	0.10	0.054	(0.214)	0.049	0.005
244	20.33	0.10	0.054	(0.213)	0.049	0.005
245	20.42	0.10	0.054	(0.212)	0.049	0.005
246	20.50	0.10	0.054	(0.211)	0.049	0.005

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247  20.58     0.10      0.054       (  0.210)       0.049        0.005
248  20.67     0.10      0.054       (  0.209)       0.049        0.005
249  20.75     0.10      0.054       (  0.208)       0.049        0.005
250  20.83     0.07      0.036       (  0.207)       0.032        0.004
251  20.92     0.07      0.036       (  0.207)       0.032        0.004
252  21.00     0.07      0.036       (  0.206)       0.032        0.004
253  21.08     0.10      0.054       (  0.205)       0.049        0.005
254  21.17     0.10      0.054       (  0.204)       0.049        0.005
255  21.25     0.10      0.054       (  0.203)       0.049        0.005
256  21.33     0.07      0.036       (  0.203)       0.032        0.004
257  21.42     0.07      0.036       (  0.202)       0.032        0.004
258  21.50     0.07      0.036       (  0.201)       0.032        0.004
259  21.58     0.10      0.054       (  0.200)       0.049        0.005
260  21.67     0.10      0.054       (  0.200)       0.049        0.005
261  21.75     0.10      0.054       (  0.199)       0.049        0.005
262  21.83     0.07      0.036       (  0.198)       0.032        0.004
263  21.92     0.07      0.036       (  0.198)       0.032        0.004
264  22.00     0.07      0.036       (  0.197)       0.032        0.004
265  22.08     0.10      0.054       (  0.196)       0.049        0.005
266  22.17     0.10      0.054       (  0.196)       0.049        0.005
267  22.25     0.10      0.054       (  0.195)       0.049        0.005
268  22.33     0.07      0.036       (  0.194)       0.032        0.004
269  22.42     0.07      0.036       (  0.194)       0.032        0.004
270  22.50     0.07      0.036       (  0.193)       0.032        0.004
271  22.58     0.07      0.036       (  0.193)       0.032        0.004
272  22.67     0.07      0.036       (  0.192)       0.032        0.004
273  22.75     0.07      0.036       (  0.192)       0.032        0.004
274  22.83     0.07      0.036       (  0.191)       0.032        0.004
275  22.92     0.07      0.036       (  0.191)       0.032        0.004
276  23.00     0.07      0.036       (  0.190)       0.032        0.004
277  23.08     0.07      0.036       (  0.190)       0.032        0.004
278  23.17     0.07      0.036       (  0.189)       0.032        0.004
279  23.25     0.07      0.036       (  0.189)       0.032        0.004
280  23.33     0.07      0.036       (  0.188)       0.032        0.004
281  23.42     0.07      0.036       (  0.188)       0.032        0.004
282  23.50     0.07      0.036       (  0.188)       0.032        0.004
283  23.58     0.07      0.036       (  0.187)       0.032        0.004
284  23.67     0.07      0.036       (  0.187)       0.032        0.004
285  23.75     0.07      0.036       (  0.187)       0.032        0.004
286  23.83     0.07      0.036       (  0.187)       0.032        0.004
287  23.92     0.07      0.036       (  0.187)       0.032        0.004
288  24.00     0.07      0.036       (  0.186)       0.032        0.004
               (Loss Rate Not Used)
    Sum =     100.0                                  Sum =    10.5
      Flood volume = Effective rainfall      0.88(In)
       times area       9.9(Ac.)/[(In)/(Ft.)] =       0.7(Ac.Ft)
      Total soil loss =      3.62(In)
      Total soil loss =     2.980(Ac.Ft)
      Total rainfall =      4.50(In)
      Flood volume =       31393.2 Cubic Feet
      Total soil loss =      129830.1 Cubic Feet
      ---------------------------------------------------------------------
       Peak flow rate of this hydrograph =      2.895(CFS)
      ---------------------------------------------------------------------
      +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                          24 - 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   5   Minute intervals ((CFS))

      ---------------------------------------------------------------------
 Time(h+m) Volume Ac.Ft   Q(CFS)  0        2.5       5.0       7.5      10.0
 ---------------------------------------------------------------------------
   0+ 5       0.0001      0.01  Q          |         |         |         |
   0+10       0.0003      0.03  Q          |         |         |         |
   0+15       0.0005      0.03  Q          |         |         |         |
   0+20       0.0008      0.04  Q          |         |         |         |
   0+25       0.0011      0.05  Q          |         |         |         |
   0+30       0.0014      0.05  Q          |         |         |         |
   0+35       0.0018      0.05  Q          |         |         |         |
   0+40       0.0022      0.05  Q          |         |         |         |
   0+45       0.0025      0.05  Q          |         |         |         |
   0+50       0.0030      0.06  Q          |         |         |         |
   0+55       0.0034      0.07  Q          |         |         |         |
   1+ 0       0.0039      0.07  Q          |         |         |         |
   1+ 5       0.0043      0.07  Q          |         |         |         |
   1+10       0.0047      0.06  Q          |         |         |         |
   1+15       0.0051      0.06  Q          |         |         |         |
   1+20       0.0055      0.05  Q          |         |         |         |
   1+25       0.0059      0.05  Q          |         |         |         |
   1+30       0.0062      0.05  Q          |         |         |         |
   1+35       0.0066      0.05  Q          |         |         |         |
   1+40       0.0070      0.05  Q          |         |         |         |
   1+45       0.0074      0.05  Q          |         |         |         |
   1+50       0.0078      0.06  Q          |         |         |         |
   1+55       0.0082      0.07  Q          |         |         |         |
   2+ 0       0.0087      0.07  Q          |         |         |         |
```

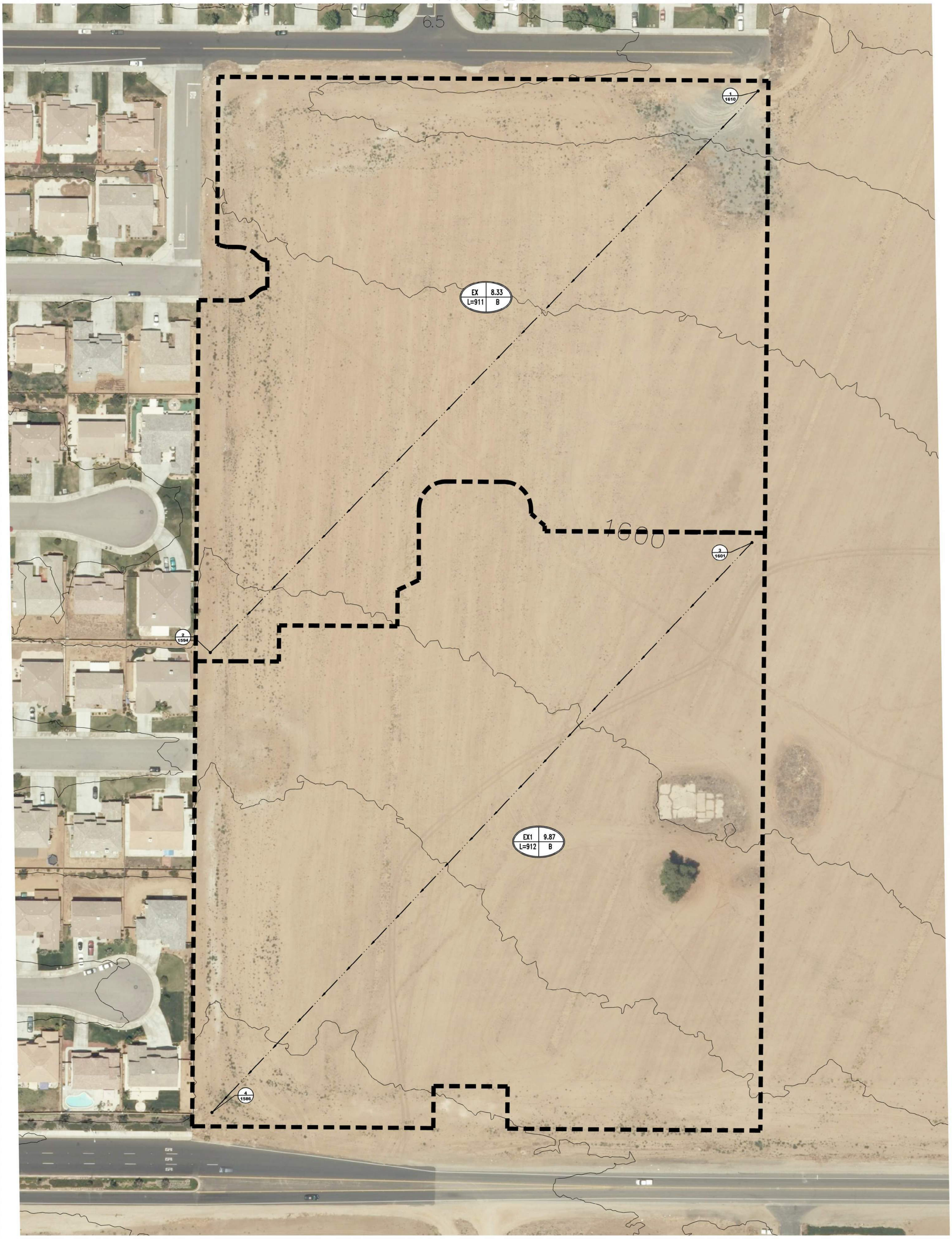
2+ 5	0.0092	0.07	Q	|	|	|	|
2+10	0.0097	0.07	Q	|	|	|	|
2+15	0.0102	0.07	Q	|	|	|	|
2+20	0.0107	0.07	Q	|	|	|	|
2+25	0.0112	0.07	Q	|	|	|	|
2+30	0.0117	0.07	Q	|	|	|	|
2+35	0.0122	0.08	Q	|	|	|	|
2+40	0.0128	0.09	Q	|	|	|	|
2+45	0.0134	0.09	Q	|	|	|	|
2+50	0.0140	0.09	Q	|	|	|	|
2+55	0.0146	0.09	Q	|	|	|	|
3+ 0	0.0152	0.09	Q	|	|	|	|
3+ 5	0.0158	0.09	Q	|	|	|	|
3+10	0.0165	0.09	Q	|	|	|	|
3+15	0.0171	0.09	Q	|	|	|	|
3+20	0.0177	0.09	Q	|	|	|	|
3+25	0.0183	0.09	QV	|	|	|	|
3+30	0.0189	0.09	QV	|	|	|	|
3+35	0.0195	0.09	QV	|	|	|	|
3+40	0.0202	0.09	QV	|	|	|	|
3+45	0.0208	0.09	QV	|	|	|	|
3+50	0.0214	0.09	QV	|	|	|	|
3+55	0.0221	0.10	QV	|	|	|	|
4+ 0	0.0229	0.11	QV	|	|	|	|
4+ 5	0.0236	0.11	QV	|	|	|	|
4+10	0.0243	0.11	QV	|	|	|	|
4+15	0.0251	0.11	QV	|	|	|	|
4+20	0.0259	0.11	QV	|	|	|	|
4+25	0.0267	0.12	QV	|	|	|	|
4+30	0.0275	0.12	QV	|	|	|	|
4+35	0.0284	0.12	QV	|	|	|	|
4+40	0.0293	0.12	QV	|	|	|	|
4+45	0.0301	0.13	QV	|	|	|	|
4+50	0.0310	0.13	QV	|	|	|	|
4+55	0.0320	0.14	QV	|	|	|	|
5+ 0	0.0330	0.14	QV	|	|	|	|
5+ 5	0.0339	0.13	QV	|	|	|	|
5+10	0.0347	0.12	QV	|	|	|	|
5+15	0.0354	0.11	QV	|	|	|	|
5+20	0.0362	0.11	Q V	|	|	|	|
5+25	0.0371	0.12	Q V	|	|	|	|
5+30	0.0379	0.12	Q V	|	|	|	|
5+35	0.0388	0.13	Q V	|	|	|	|
5+40	0.0398	0.14	Q V	|	|	|	|
5+45	0.0407	0.14	Q V	|	|	|	|
5+50	0.0417	0.14	Q V	|	|	|	|
5+55	0.0427	0.14	Q V	|	|	|	|
6+ 0	0.0437	0.14	Q V	|	|	|	|
6+ 5	0.0447	0.15	Q V	|	|	|	|
6+10	0.0458	0.16	Q V	|	|	|	|
6+15	0.0469	0.16	Q V	|	|	|	|
6+20	0.0480	0.16	Q V	|	|	|	|
6+25	0.0491	0.16	Q V	|	|	|	|
6+30	0.0502	0.16	Q V	|	|	|	|
6+35	0.0513	0.17	Q V	|	|	|	|
6+40	0.0526	0.18	Q V	|	|	|	|
6+45	0.0538	0.18	Q V	|	|	|	|
6+50	0.0550	0.18	Q V	|	|	|	|
6+55	0.0562	0.18	Q V	|	|	|	|
7+ 0	0.0575	0.18	Q V	|	|	|	|
7+ 5	0.0587	0.18	Q V	|	|	|	|
7+10	0.0599	0.18	Q V	|	|	|	|
7+15	0.0612	0.18	Q V	|	|	|	|
7+20	0.0624	0.18	Q V	|	|	|	|
7+25	0.0638	0.19	Q V	|	|	|	|
7+30	0.0651	0.20	Q V	|	|	|	|
7+35	0.0665	0.20	Q V	|	|	|	|
7+40	0.0679	0.21	Q V	|	|	|	|
7+45	0.0694	0.21	Q V	|	|	|	|
7+50	0.0709	0.22	Q V	|	|	|	|
7+55	0.0725	0.23	Q V	|	|	|	|
8+ 0	0.0741	0.23	Q V	|	|	|	|
8+ 5	0.0758	0.24	Q V	|	|	|	|
8+10	0.0775	0.26	|Q V	|	|	|	|
8+15	0.0794	0.26	|Q V	|	|	|	|
8+20	0.0812	0.27	|Q V	|	|	|	|
8+25	0.0831	0.27	|Q V	|	|	|	|
8+30	0.0849	0.27	|Q V	|	|	|	|
8+35	0.0868	0.27	|Q V	|	|	|	|
8+40	0.0887	0.28	|Q V	|	|	|	|
8+45	0.0907	0.28	|Q V	|	|	|	|
8+50	0.0927	0.29	|Q V	|	|	|	|
8+55	0.0948	0.30	|Q V	|	|	|	|
9+ 0	0.0969	0.30	|Q V	|	|	|	|
9+ 5	0.0990	0.31	|Q V	|	|	|	|
9+10	0.1013	0.33	|Q V	|	|	|	|
9+15	0.1036	0.34	|Q V	|	|	|	|

9+20	0.1060	0.34	
9+25	0.1084	0.35	
9+30	0.1109	0.36	
9+35	0.1134	0.36	
9+40	0.1159	0.37	
9+45	0.1185	0.37	
9+50	0.1211	0.38	
9+55	0.1238	0.39	
10+ 0	0.1265	0.39	
10+ 5	0.1290	0.36	
10+10	0.1310	0.30	
10+15	0.1330	0.28	
10+20	0.1349	0.28	
10+25	0.1367	0.27	
10+30	0.1386	0.27	
10+35	0.1406	0.29	
10+40	0.1429	0.34	
10+45	0.1453	0.35	
10+50	0.1478	0.35	
10+55	0.1502	0.36	
11+ 0	0.1527	0.36	
11+ 5	0.1551	0.35	
11+10	0.1575	0.34	
11+15	0.1598	0.34	
11+20	0.1622	0.34	
11+25	0.1645	0.34	
11+30	0.1669	0.34	
11+35	0.1692	0.33	
11+40	0.1713	0.31	
11+45	0.1734	0.31	
11+50	0.1756	0.31	
11+55	0.1778	0.32	
12+ 0	0.1800	0.32	
12+ 5	0.1836	0.52	
12+10	0.1895	0.86	
12+15	0.1961	0.96	
12+20	0.2035	1.06	
12+25	0.2116	1.19	
12+30	0.2202	1.24	
12+35	0.2296	1.37	
12+40	0.2404	1.57	
12+45	0.2517	1.63	
12+50	0.2635	1.72	
12+55	0.2762	1.83	
13+ 0	0.2891	1.88	
13+ 5	0.3040	2.17	
13+10	0.3221	2.62	
13+15	0.3410	2.75	
13+20	0.3604	2.82	
13+25	0.3801	2.86	
13+30	0.4000	2.89	
13+35	0.4161	2.34	
13+40	0.4258	1.41	
13+45	0.4340	1.18	
13+50	0.4415	1.09	
13+55	0.4487	1.05	
14+ 0	0.4557	1.02	
14+ 5	0.4643	1.24	
14+10	0.4754	1.60	
14+15	0.4871	1.71	
14+20	0.4989	1.71	
14+25	0.5103	1.66	
14+30	0.5219	1.67	
14+35	0.5334	1.68	
14+40	0.5450	1.69	
14+45	0.5567	1.70	
14+50	0.5681	1.66	
14+55	0.5791	1.59	
15+ 0	0.5900	1.58	
15+ 5	0.6006	1.54	
15+10	0.6106	1.46	
15+15	0.6206	1.45	
15+20	0.6303	1.40	
15+25	0.6394	1.32	
15+30	0.6484	1.31	
15+35	0.6561	1.11	
15+40	0.6614	0.77	
15+45	0.6662	0.70	
15+50	0.6708	0.67	
15+55	0.6754	0.67	
16+ 0	0.6800	0.66	
16+ 5	0.6834	0.50	
16+10	0.6848	0.21	
16+15	0.6858	0.14	
16+20	0.6865	0.10	
16+25	0.6871	0.09	
16+30	0.6876	0.07	

16+35	0.6880	0.07	Q	|	|	|	V |
16+40	0.6884	0.06	Q	|	|	|	V |
16+45	0.6888	0.06	Q	|	|	|	V |
16+50	0.6892	0.05	Q	|	|	|	V |
16+55	0.6896	0.05	Q	|	|	|	V |
17+ 0	0.6899	0.05	Q	|	|	|	V |
17+ 5	0.6904	0.06	Q	|	|	|	V |
17+10	0.6909	0.08	Q	|	|	|	V |
17+15	0.6915	0.09	Q	|	|	|	V |
17+20	0.6921	0.09	Q	|	|	|	V |
17+25	0.6927	0.09	Q	|	|	|	V |
17+30	0.6933	0.09	Q	|	|	|	V |
17+35	0.6940	0.09	Q	|	|	|	V |
17+40	0.6946	0.09	Q	|	|	|	V |
17+45	0.6952	0.09	Q	|	|	|	V |
17+50	0.6958	0.08	Q	|	|	|	V |
17+55	0.6963	0.08	Q	|	|	|	V |
18+ 0	0.6968	0.07	Q	|	|	|	V |
18+ 5	0.6973	0.07	Q	|	|	|	V |
18+10	0.6978	0.07	Q	|	|	|	V |
18+15	0.6983	0.07	Q	|	|	|	V |
18+20	0.6988	0.07	Q	|	|	|	V |
18+25	0.6993	0.07	Q	|	|	|	V |
18+30	0.6998	0.07	Q	|	|	|	V |
18+35	0.7002	0.07	Q	|	|	|	V |
18+40	0.7006	0.06	Q	|	|	|	V |
18+45	0.7010	0.06	Q	|	|	|	V |
18+50	0.7014	0.05	Q	|	|	|	V |
18+55	0.7016	0.04	Q	|	|	|	V |
19+ 0	0.7019	0.04	Q	|	|	|	V |
19+ 5	0.7022	0.04	Q	|	|	|	V |
19+10	0.7025	0.05	Q	|	|	|	V |
19+15	0.7029	0.05	Q	|	|	|	V|
19+20	0.7033	0.06	Q	|	|	|	V|
19+25	0.7037	0.07	Q	|	|	|	V|
19+30	0.7042	0.07	Q	|	|	|	V|
19+35	0.7047	0.07	Q	|	|	|	V|
19+40	0.7051	0.06	Q	|	|	|	V|
19+45	0.7055	0.06	Q	|	|	|	V|
19+50	0.7058	0.05	Q	|	|	|	V|
19+55	0.7061	0.04	Q	|	|	|	V|
20+ 0	0.7063	0.04	Q	|	|	|	V|
20+ 5	0.7066	0.04	Q	|	|	|	V|
20+10	0.7070	0.05	Q	|	|	|	V|
20+15	0.7073	0.05	Q	|	|	|	V|
20+20	0.7077	0.05	Q	|	|	|	V|
20+25	0.7081	0.05	Q	|	|	|	V|
20+30	0.7084	0.05	Q	|	|	|	V|
20+35	0.7088	0.05	Q	|	|	|	V|
20+40	0.7092	0.05	Q	|	|	|	V|
20+45	0.7095	0.05	Q	|	|	|	V|
20+50	0.7099	0.05	Q	|	|	|	V|
20+55	0.7101	0.04	Q	|	|	|	V|
21+ 0	0.7104	0.04	Q	|	|	|	V|
21+ 5	0.7107	0.04	Q	|	|	|	V|
21+10	0.7110	0.05	Q	|	|	|	V|
21+15	0.7114	0.05	Q	|	|	|	V|
21+20	0.7117	0.05	Q	|	|	|	V|
21+25	0.7120	0.04	Q	|	|	|	V|
21+30	0.7123	0.04	Q	|	|	|	V|
21+35	0.7125	0.04	Q	|	|	|	V|
21+40	0.7129	0.05	Q	|	|	|	V|
21+45	0.7133	0.05	Q	|	|	|	V|
21+50	0.7136	0.05	Q	|	|	|	V|
21+55	0.7139	0.04	Q	|	|	|	V|
22+ 0	0.7141	0.04	Q	|	|	|	V|
22+ 5	0.7144	0.04	Q	|	|	|	V|
22+10	0.7147	0.05	Q	|	|	|	V|
22+15	0.7151	0.05	Q	|	|	|	V|
22+20	0.7154	0.05	Q	|	|	|	V|
22+25	0.7157	0.04	Q	|	|	|	V|
22+30	0.7160	0.04	Q	|	|	|	V|
22+35	0.7162	0.04	Q	|	|	|	V|
22+40	0.7165	0.04	Q	|	|	|	V|
22+45	0.7167	0.04	Q	|	|	|	V|
22+50	0.7170	0.04	Q	|	|	|	V|
22+55	0.7172	0.04	Q	|	|	|	V|
23+ 0	0.7175	0.04	Q	|	|	|	V|
23+ 5	0.7177	0.04	Q	|	|	|	V|
23+10	0.7179	0.04	Q	|	|	|	V|
23+15	0.7182	0.04	Q	|	|	|	V|
23+20	0.7184	0.04	Q	|	|	|	V|
23+25	0.7187	0.04	Q	|	|	|	V|
23+30	0.7189	0.04	Q	|	|	|	V|
23+35	0.7192	0.04	Q	|	|	|	V|
23+40	0.7194	0.04	Q	|	|	|	V|
23+45	0.7197	0.04	Q	|	|	|	V|

23+50	0.7199	0.04	Q	|	|	|	V|
23+55	0.7202	0.04	Q	|	|	|	V|
24+ 0	0.7204	0.04	Q	|	|	|	V|
24+ 5	0.7206	0.03	Q	|	|	|	V|
24+10	0.7206	0.01	Q	|	|	|	V|
24+15	0.7207	0.00	Q	|	|	|	V|
24+20	0.7207	0.00	Q	|	|	|	V|
24+25	0.7207	0.00	Q	|	|	|	V|

PRE-DEVELOPMENT UNIT HYROGRAPH MAP
TTM 38265



LEGEND

NODE / ELEV

AREA | ACRES
LENGTH | SOIL

DRAINAGE AREA BOUNDARY

FLOW PATH

0 50 150
25 100 200
SCALE: 1" = 50'

PRE DEVELOPMENT
UNIT HYDROGRAPH MAP
TTM 38265
PREPARATION DATE: FEBRUARY 2022
PLANS PREPARED BY:

adkan ENGINEERS
Civil Engineering. Surveying Planning
6879 Airport Drive, Riverside, CA 92504
Tel:(951) 688-0241 · Fax:(951) 688-0599

PLOT DATE: 2/28/2022 4:47 PM

U:\PROJECTS\BEERS\10140\HYDROLOGY\EXISTING UNIT.DWG

Section 4

Post-Development Onsite Unit Hydrographs

```
       U n i t   H y d r o g r a p h   A n a l y s i s

       Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2008, Version 8.1
              Study date  03/01/22 File: pro212.out

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------------------------------------------------------------------------------

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       8.33(Ac.)  =      0.013 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       8.33(Ac.)  =      0.013 Sq. Mi.
Length along longest watercourse =     997.00(Ft.)
Length along longest watercourse measured to centroid =     499.00(Ft.)
Length along longest watercourse =      0.189 Mi.
Length along longest watercourse measured to centroid =      0.095 Mi.
Difference in elevation =      15.80(Ft.)
Slope along watercourse =     83.6750 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time =    0.034 Hr.
Lag time =     2.02 Min.
25% of lag time =     0.50 Min.
40% of lag time =     0.81 Min.
Unit time =     5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            0.50                 4.17

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            1.20                10.00

STORM EVENT (YEAR) =    2.00
Area Averaged 2-Year Rainfall =    0.500(In)
Area Averaged 100-Year Rainfall =    1.200(In)

Point rain (area averaged) =    0.500(In)
Areal adjustment factor =   99.99 %
Adjusted average point rain =    0.500(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     8.330           56.00          0.650
 Total Area Entered =      8.33(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-1     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
56.0  36.0      0.706     0.650        0.293       1.000      0.293
                                                 Sum (F) =   0.293
Area averaged mean soil loss (F) (In/Hr) =  0.293
Minimum soil loss rate ((In/Hr)) =  0.146
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.380
------------------------------------------------------------------------
Slope of intensity-duration curve for a 1 hour storm =0.5000
------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
------------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
```

```
        (hrs)                          Graph %            (CFS)
      ------------------------------------------------------------------------
         1   0.083        247.873         50.617              4.249
         2   0.167        495.746         40.186              3.374
         3   0.250        743.618          7.090              0.595
         4   0.333        991.491          2.107              0.177
                                  Sum = 100.000   Sum=        8.395
    ----------------------------------------------------------------------------


 The following loss rate calculations reflect use of the minimum calculated loss
 rate subtracted from the Storm Rain to produce the maximum Effective Rain value

  Unit Time   Pattern   Storm Rain     Loss rate(In./Hr)     Effective
       (Hr.)  Percent   (In/Hr)         Max    |   Low        (In/Hr)
    1   0.08     4.20      0.252       (  0.293)       0.096        0.156
    2   0.17     4.30      0.258       (  0.293)       0.098        0.160
    3   0.25     5.00      0.300       (  0.293)       0.114        0.186
    4   0.33     5.00      0.300       (  0.293)       0.114        0.186
    5   0.42     5.80      0.348       (  0.293)       0.132        0.216
    6   0.50     6.50      0.390       (  0.293)       0.148        0.242
    7   0.58     7.40      0.444       (  0.293)       0.169        0.275
    8   0.67     8.60      0.516       (  0.293)       0.196        0.320
    9   0.75    12.30      0.738       (  0.293)       0.280        0.458
   10   0.83    29.10      1.746          0.293    (  0.663)        1.453
   11   0.92     6.80      0.408       (  0.293)       0.155        0.253
   12   1.00     5.00      0.300       (  0.293)       0.114        0.186
             (Loss Rate Not Used)
      Sum =     100.0                                 Sum =     4.1
        Flood volume = Effective rainfall      0.34(In)
         times area       8.3(Ac.)/[(In)/(Ft.)] =       0.2(Ac.Ft)
        Total soil loss =       0.16(In)
        Total soil loss =     0.110(Ac.Ft)
        Total rainfall =      0.50(In)
        Flood volume =       10306.5 Cubic Feet
        Total soil loss =        4811.3 Cubic Feet
        ---------------------------------------------------------------------
         Peak flow rate of this hydrograph =      7.961(CFS)
        ---------------------------------------------------------------------
        +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                           1 - 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   5   Minute intervals ((CFS))

        ---------------------------------------------------------------------
  Time(h+m) Volume Ac.Ft   Q(CFS)  0        2.5       5.0       7.5      10.0
   ---------------------------------------------------------------------------
     0+ 5       0.0046      0.66  V Q       |         |         |         |
     0+10       0.0129      1.21  | V Q     |         |         |         |
     0+15       0.0227      1.42  |  V Q    |         |         |         |
     0+20       0.0333      1.54  |    VQ   |         |         |         |
     0+25       0.0449      1.68  |     QV  |         |         |         |
     0+30       0.0580      1.90  |      Q V|         |         |         |
     0+35       0.0728      2.15  |       Q | V       |         |         |
     0+40       0.0898      2.47  |        Q|   V     |         |         |
     0+45       0.1121      3.23  |         | Q     V |         |         |
     0+50       0.1669      7.96  |         |         |       V |Q        |
     0+55       0.2103      6.31  |         |         |     Q   |   V     |
     1+ 0       0.2282      2.59  |         Q         |         |      V  |
     1+ 5       0.2353      1.04  |   Q     |         |         |         V|
     1+10       0.2364      0.16  Q         |         |         |         V|
     1+15       0.2366      0.03  Q         |         |         |          V
    ---------------------------------------------------------------------------
```

```
       U n i t   H y d r o g r a p h   A n a l y s i s

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              Study date  03/01/22 File: pro232.out

++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
------------------------------------------------------------------------------

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       8.33(Ac.)  =      0.013 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       8.33(Ac.)  =      0.013 Sq. Mi.
Length along longest watercourse =     997.00(Ft.)
Length along longest watercourse measured to centroid =     499.00(Ft.)
Length along longest watercourse =      0.189 Mi.
Length along longest watercourse measured to centroid =      0.095 Mi.
Difference in elevation =      15.80(Ft.)
Slope along watercourse =     83.6750 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time =    0.034 Hr.
Lag time =     2.02 Min.
25% of lag time =     0.50 Min.
40% of lag time =     0.81 Min.
Unit time =     5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            0.80                 6.66

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            1.90                15.83

STORM EVENT (YEAR) =    2.00
Area Averaged 2-Year Rainfall =    0.800(In)
Area Averaged 100-Year Rainfall =    1.900(In)

Point rain (area averaged) =    0.800(In)
Areal adjustment factor =  100.00 %
Adjusted average point rain =    0.800(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     8.330           56.00          0.650
 Total Area Entered =      8.33(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-1     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
56.0  36.0      0.706     0.650        0.293       1.000      0.293
                                                 Sum (F) =   0.293
Area averaged mean soil loss (F) (In/Hr) =  0.293
Minimum soil loss rate ((In/Hr)) =  0.146
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.380
------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
-------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
    (hrs)                          Graph %           (CFS)
------------------------------------------------------------------------
```

1	0.083	247.873	50.617	4.249
2	0.167	495.746	40.186	3.374
3	0.250	743.618	7.090	0.595
4	0.333	991.491	2.107	0.177
			Sum = 100.000 Sum=	8.395

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	1.30	0.125	(0.293)	0.047	0.077
2	0.17	1.30	0.125	(0.293)	0.047	0.077
3	0.25	1.10	0.106	(0.293)	0.040	0.065
4	0.33	1.50	0.144	(0.293)	0.055	0.089
5	0.42	1.50	0.144	(0.293)	0.055	0.089
6	0.50	1.80	0.173	(0.293)	0.066	0.107
7	0.58	1.50	0.144	(0.293)	0.055	0.089
8	0.67	1.80	0.173	(0.293)	0.066	0.107
9	0.75	1.80	0.173	(0.293)	0.066	0.107
10	0.83	1.50	0.144	(0.293)	0.055	0.089
11	0.92	1.60	0.154	(0.293)	0.058	0.095
12	1.00	1.80	0.173	(0.293)	0.066	0.107
13	1.08	2.20	0.211	(0.293)	0.080	0.131
14	1.17	2.20	0.211	(0.293)	0.080	0.131
15	1.25	2.20	0.211	(0.293)	0.080	0.131
16	1.33	2.00	0.192	(0.293)	0.073	0.119
17	1.42	2.60	0.250	(0.293)	0.095	0.155
18	1.50	2.70	0.259	(0.293)	0.098	0.161
19	1.58	2.40	0.230	(0.293)	0.088	0.143
20	1.67	2.70	0.259	(0.293)	0.098	0.161
21	1.75	3.30	0.317	(0.293)	0.120	0.196
22	1.83	3.10	0.298	(0.293)	0.113	0.185
23	1.92	2.90	0.278	(0.293)	0.106	0.173
24	2.00	3.00	0.288	(0.293)	0.109	0.179
25	2.08	3.10	0.298	(0.293)	0.113	0.185
26	2.17	4.20	0.403	(0.293)	0.153	0.250
27	2.25	5.00	0.480	(0.293)	0.182	0.298
28	2.33	3.50	0.336	(0.293)	0.128	0.208
29	2.42	6.80	0.653	(0.293)	0.248	0.405
30	2.50	7.30	0.701	(0.293)	0.266	0.434
31	2.58	8.20	0.787	0.293	(0.299)	0.494
32	2.67	5.90	0.566	(0.293)	0.215	0.351
33	2.75	2.00	0.192	(0.293)	0.073	0.119
34	2.83	1.80	0.173	(0.293)	0.066	0.107
35	2.92	1.80	0.173	(0.293)	0.066	0.107
36	3.00	0.60	0.058	(0.293)	0.022	0.036
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	6.0

Flood volume = Effective rainfall 0.50(In)
times area 8.3(Ac.)/[(In)/(Ft.)] = 0.3(Ac.Ft)
Total soil loss = 0.30(In)
Total soil loss = 0.211(Ac.Ft)
Total rainfall = 0.80(In)
Flood volume = 15012.9 Cubic Feet
Total soil loss = 9176.5 Cubic Feet

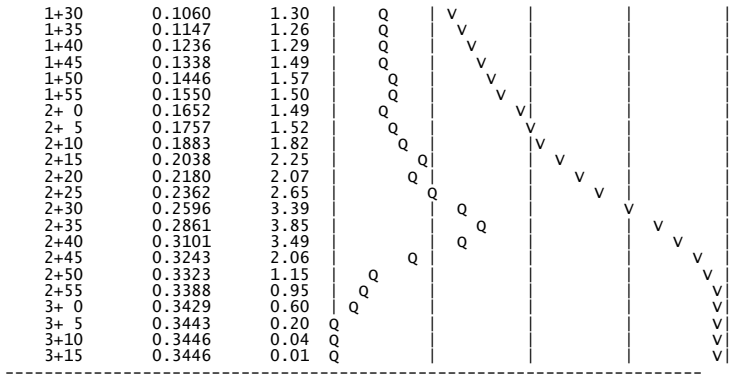
Peak flow rate of this hydrograph = 3.845(CFS)

++

3 - 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 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0023	0.33	VQ				
0+10	0.0063	0.59	V Q				
0+15	0.0104	0.59	|VQ				
0+20	0.0149	0.66	|VQ				
0+25	0.0200	0.73	| Q				
0+30	0.0256	0.82	| VQ				
0+35	0.0312	0.81	| Q				
0+40	0.0370	0.84	| QV				
0+45	0.0431	0.89	| Q V				
0+50	0.0487	0.82	| Q V				
0+55	0.0542	0.79	| Q V				
1+ 0	0.0600	0.85	| Q V				
1+ 5	0.0668	0.99	| Q V				
1+10	0.0743	1.08	| Q V				
1+15	0.0818	1.10	| Q V				
1+20	0.0890	1.05	| Q V				
1+25	0.0970	1.16	| Q |V				


1+30 0.1060 1.30
1+35 0.1147 1.26
1+40 0.1236 1.29
1+45 0.1338 1.49
1+50 0.1446 1.57
1+55 0.1550 1.50
2+ 0 0.1652 1.49
2+ 5 0.1757 1.52
2+10 0.1883 1.82
2+15 0.2038 2.25
2+20 0.2180 2.07
2+25 0.2362 2.65
2+30 0.2596 3.39
2+35 0.2861 3.85
2+40 0.3101 3.49
2+45 0.3243 2.06
2+50 0.3323 1.15
2+55 0.3388 0.95
3+ 0 0.3429 0.60
3+ 5 0.3443 0.20
3+10 0.3446 0.04
3+15 0.3446 0.01

```
       U n i t   H y d r o g r a p h   A n a l y s i s

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              Study date  03/01/22 File: pro262.out

++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
------------------------------------------------------------------------------

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       8.33(Ac.)  =      0.013 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       8.33(Ac.)  =      0.013 Sq. Mi.
Length along longest watercourse =     997.00(Ft.)
Length along longest watercourse measured to centroid =     499.00(Ft.)
Length along longest watercourse =      0.189 Mi.
Length along longest watercourse measured to centroid =      0.095 Mi.
Difference in elevation =      15.80(Ft.)
Slope along watercourse =     83.6750 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time =    0.034 Hr.
Lag time =     2.02 Min.
25% of lag time =     0.50 Min.
40% of lag time =     0.81 Min.
Unit time =     5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            1.20                 10.00

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            2.50                 20.82

STORM EVENT (YEAR) =    2.00
Area Averaged 2-Year Rainfall =    1.200(In)
Area Averaged 100-Year Rainfall =    2.500(In)

Point rain (area averaged) =    1.200(In)
Areal adjustment factor =  100.00 %
Adjusted average point rain =    1.200(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     8.330           56.00          0.650
 Total Area Entered =      8.33(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-1     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
56.0  36.0      0.706     0.650        0.293       1.000      0.293
                                                 Sum (F) =   0.293
Area averaged mean soil loss (F) (In/Hr) =  0.293
Minimum soil loss rate ((In/Hr)) =  0.146
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.380
------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
-------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
    (hrs)                          Graph %           (CFS)
------------------------------------------------------------------------
```

1	0.083	247.873	50.617	4.249
2	0.167	495.746	40.186	3.374
3	0.250	743.618	7.090	0.595
4	0.333	991.491	2.107	0.177
			Sum = 100.000 Sum=	8.395

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.072	(0.293)	0.027	0.045
2	0.17	0.60	0.086	(0.293)	0.033	0.054
3	0.25	0.60	0.086	(0.293)	0.033	0.054
4	0.33	0.60	0.086	(0.293)	0.033	0.054
5	0.42	0.60	0.086	(0.293)	0.033	0.054
6	0.50	0.70	0.101	(0.293)	0.038	0.062
7	0.58	0.70	0.101	(0.293)	0.038	0.062
8	0.67	0.70	0.101	(0.293)	0.038	0.062
9	0.75	0.70	0.101	(0.293)	0.038	0.062
10	0.83	0.70	0.101	(0.293)	0.038	0.062
11	0.92	0.70	0.101	(0.293)	0.038	0.062
12	1.00	0.80	0.115	(0.293)	0.044	0.071
13	1.08	0.80	0.115	(0.293)	0.044	0.071
14	1.17	0.80	0.115	(0.293)	0.044	0.071
15	1.25	0.80	0.115	(0.293)	0.044	0.071
16	1.33	0.80	0.115	(0.293)	0.044	0.071
17	1.42	0.80	0.115	(0.293)	0.044	0.071
18	1.50	0.80	0.115	(0.293)	0.044	0.071
19	1.58	0.80	0.115	(0.293)	0.044	0.071
20	1.67	0.80	0.115	(0.293)	0.044	0.071
21	1.75	0.80	0.115	(0.293)	0.044	0.071
22	1.83	0.80	0.115	(0.293)	0.044	0.071
23	1.92	0.80	0.115	(0.293)	0.044	0.071
24	2.00	0.90	0.130	(0.293)	0.049	0.080
25	2.08	0.80	0.115	(0.293)	0.044	0.071
26	2.17	0.90	0.130	(0.293)	0.049	0.080
27	2.25	0.90	0.130	(0.293)	0.049	0.080
28	2.33	0.90	0.130	(0.293)	0.049	0.080
29	2.42	0.90	0.130	(0.293)	0.049	0.080
30	2.50	0.90	0.130	(0.293)	0.049	0.080
31	2.58	0.90	0.130	(0.293)	0.049	0.080
32	2.67	0.90	0.130	(0.293)	0.049	0.080
33	2.75	1.00	0.144	(0.293)	0.055	0.089
34	2.83	1.00	0.144	(0.293)	0.055	0.089
35	2.92	1.00	0.144	(0.293)	0.055	0.089
36	3.00	1.00	0.144	(0.293)	0.055	0.089
37	3.08	1.00	0.144	(0.293)	0.055	0.089
38	3.17	1.10	0.158	(0.293)	0.060	0.098
39	3.25	1.10	0.158	(0.293)	0.060	0.098
40	3.33	1.10	0.158	(0.293)	0.060	0.098
41	3.42	1.20	0.173	(0.293)	0.066	0.107
42	3.50	1.30	0.187	(0.293)	0.071	0.116
43	3.58	1.40	0.202	(0.293)	0.077	0.125
44	3.67	1.40	0.202	(0.293)	0.077	0.125
45	3.75	1.50	0.216	(0.293)	0.082	0.134
46	3.83	1.50	0.216	(0.293)	0.082	0.134
47	3.92	1.60	0.230	(0.293)	0.088	0.143
48	4.00	1.60	0.230	(0.293)	0.088	0.143
49	4.08	1.70	0.245	(0.293)	0.093	0.152
50	4.17	1.80	0.259	(0.293)	0.098	0.161
51	4.25	1.90	0.274	(0.293)	0.104	0.170
52	4.33	2.00	0.288	(0.293)	0.109	0.179
53	4.42	2.10	0.302	(0.293)	0.115	0.187
54	4.50	2.10	0.302	(0.293)	0.115	0.187
55	4.58	2.20	0.317	(0.293)	0.120	0.196
56	4.67	2.30	0.331	(0.293)	0.126	0.205
57	4.75	2.40	0.346	(0.293)	0.131	0.214
58	4.83	2.40	0.346	(0.293)	0.131	0.214
59	4.92	2.50	0.360	(0.293)	0.137	0.223
60	5.00	2.60	0.374	(0.293)	0.142	0.232
61	5.08	3.10	0.446	(0.293)	0.170	0.277
62	5.17	3.60	0.518	(0.293)	0.197	0.321
63	5.25	3.90	0.562	(0.293)	0.213	0.348
64	5.33	4.20	0.605	(0.293)	0.230	0.375
65	5.42	4.70	0.677	(0.293)	0.257	0.420
66	5.50	5.60	0.806	0.293	(0.306)	0.513
67	5.58	1.90	0.274	(0.293)	0.104	0.170
68	5.67	0.90	0.130	(0.293)	0.049	0.080
69	5.75	0.60	0.086	(0.293)	0.033	0.054
70	5.83	0.50	0.072	(0.293)	0.027	0.045
71	5.92	0.30	0.043	(0.293)	0.016	0.027
72	6.00	0.20	0.029	(0.293)	0.011	0.018
		(Loss Rate Not Used)				
	Sum =	100.0			Sum =	8.9

```
Flood volume = Effective rainfall      0.75(In)
 times area       8.3(Ac.)/[(In)/(Ft.)] =       0.5(Ac.Ft)
Total soil loss =      0.45(In)
Total soil loss =     0.316(Ac.Ft)
Total rainfall =      1.20(In)
Flood volume =       22530.2 Cubic Feet
Total soil loss =       13754.2 Cubic Feet
--------------------------------------------------------------------------
 Peak flow rate of this hydrograph =      3.884(CFS)
--------------------------------------------------------------------------
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                      6 - 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   5   Minute intervals ((CFS))

--------------------------------------------------------------------------
Time(h+m) Volume Ac.Ft   Q(CFS)  0        2.5       5.0       7.5      10.0
--------------------------------------------------------------------------
  0+ 5       0.0013      0.19  Q         |         |         |         |
  0+10       0.0039      0.38  VQ        |         |         |         |
  0+15       0.0069      0.44  VQ        |         |         |         |
  0+20       0.0100      0.45  VQ        |         |         |         |
  0+25       0.0131      0.45  |Q        |         |         |         |
  0+30       0.0165      0.49  |Q        |         |         |         |
  0+35       0.0200      0.52  |VQ       |         |         |         |
  0+40       0.0236      0.52  |VQ       |         |         |         |
  0+45       0.0272      0.52  | Q       |         |         |         |
  0+50       0.0309      0.52  | Q       |         |         |         |
  0+55       0.0345      0.52  | Q       |         |         |         |
  1+ 0       0.0384      0.56  | Q       |         |         |         |
  1+ 5       0.0424      0.59  | QV      |         |         |         |
  1+10       0.0466      0.60  | QV      |         |         |         |
  1+15       0.0507      0.60  | QV      |         |         |         |
  1+20       0.0548      0.60  | Q V     |         |         |         |
  1+25       0.0589      0.60  | Q V     |         |         |         |
  1+30       0.0631      0.60  | Q V     |         |         |         |
  1+35       0.0672      0.60  | Q  V    |         |         |         |
  1+40       0.0713      0.60  | Q  V    |         |         |         |
  1+45       0.0755      0.60  | Q  V    |         |         |         |
  1+50       0.0796      0.60  | Q   V   |         |         |         |
  1+55       0.0837      0.60  | Q   V   |         |         |         |
  2+ 0       0.0881      0.64  | Q   V   |         |         |         |
  2+ 5       0.0925      0.63  | Q    V  |         |         |         |
  2+10       0.0969      0.64  | Q    V  |         |         |         |
  2+15       0.1015      0.67  | Q    V  |         |         |         |
  2+20       0.1061      0.67  | Q     V |         |         |         |
  2+25       0.1108      0.67  | Q     V |         |         |         |
  2+30       0.1154      0.67  | Q     V |         |         |         |
  2+35       0.1201      0.67  | Q      V|         |         |         |
  2+40       0.1247      0.67  | Q      V|         |         |         |
  2+45       0.1297      0.71  | Q       V         |         |         |
  2+50       0.1348      0.74  | Q       V         |         |         |
  2+55       0.1399      0.75  | Q       V         |         |         |
  3+ 0       0.1451      0.75  | Q       |V        |         |         |
  3+ 5       0.1503      0.75  | Q       |V        |         |         |
  3+10       0.1557      0.79  |  Q      | V       |         |         |
  3+15       0.1613      0.82  |  Q      | V       |         |         |
  3+20       0.1670      0.82  |  Q      | V       |         |         |
  3+25       0.1729      0.86  |  Q      |  V      |         |         |
  3+30       0.1793      0.93  |  Q      |  V      |         |         |
  3+35       0.1862      1.00  |   Q     |   V     |         |         |
  3+40       0.1934      1.04  |   Q     |   V     |         |         |
  3+45       0.2009      1.09  |   Q     |    V    |         |         |
  3+50       0.2086      1.12  |   Q     |     V   |         |         |
  3+55       0.2166      1.16  |   Q     |     V   |         |         |
  4+ 0       0.2248      1.19  |   Q     |      V  |         |         |
  4+ 5       0.2333      1.24  |   Q     |       V |         |         |
  4+10       0.2423      1.31  |    Q    |       V |         |         |
  4+15       0.2518      1.38  |    Q    |        V|         |         |
  4+20       0.2618      1.45  |    Q    |         V         |         |
  4+25       0.2724      1.53  |     Q   |         |V        |         |
  4+30       0.2832      1.57  |     Q   |         |V        |         |
  4+35       0.2943      1.61  |     Q   |         | V       |         |
  4+40       0.3058      1.68  |     Q   |         |  V      |         |
  4+45       0.3179      1.75  |      Q  |         |   V     |         |
  4+50       0.3302      1.79  |      Q  |         |    V    |         |
  4+55       0.3429      1.84  |      Q  |         |     V   |         |
  5+ 0       0.3560      1.91  |      Q  |         |      V  |         |
  5+ 5       0.3707      2.13  |       Q |         |       V |         |
  5+10       0.3878      2.48  |        Q|         |        V|         |
  5+15       0.4068      2.77  |         |Q        |         |V        |
  5+20       0.4276      3.01  |         | Q       |         |  V      |
  5+25       0.4504      3.31  |         |  Q      |         |   V     |
  5+30       0.4771      3.88  |         |    Q    |         |     V   |
  5+35       0.4962      2.77  |         |Q        |         |      V  |
  5+40       0.5051      1.29  |    Q    |         |         |       V |
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    5+45       0.5099      0.69  | Q       |         |         |        V|
    5+50       0.5130      0.45  |Q        |         |         |        V|
    5+55       0.5151      0.31  |Q        |         |         |        V|
    6+ 0       0.5165      0.20  Q         |         |         |        V|
    6+ 5       0.5171      0.08  Q         |         |         |        V|
    6+10       0.5172      0.02  Q         |         |         |        V|
    6+15       0.5172      0.00  Q         |         |         |         V
-------------------------------------------------------------------------
```

```
       U n i t   H y d r o g r a p h   A n a l y s i s

       Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2008, Version 8.1
              Study date  03/01/22 File: pro2242.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       8.33(Ac.)  =      0.013 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       8.33(Ac.)  =      0.013 Sq. Mi.
Length along longest watercourse =     997.00(Ft.)
Length along longest watercourse measured to centroid =     499.00(Ft.)
Length along longest watercourse =      0.189 Mi.
Length along longest watercourse measured to centroid =      0.095 Mi.
Difference in elevation =      15.80(Ft.)
Slope along watercourse =     83.6750 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time =    0.034 Hr.
Lag time =     2.02 Min.
25% of lag time =     0.50 Min.
40% of lag time =     0.81 Min.
Unit time =     5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            1.80                 14.99

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            4.50                 37.48

STORM EVENT (YEAR) =    2.00
Area Averaged 2-Year Rainfall =    1.800(In)
Area Averaged 100-Year Rainfall =    4.500(In)

Point rain (area averaged) =    1.800(In)
Areal adjustment factor =  100.00 %
Adjusted average point rain =    1.800(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     8.330           56.00          0.650
 Total Area Entered =      8.33(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-1     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
56.0  36.0      0.706     0.650        0.293       1.000      0.293
                                                 Sum (F) =   0.293
Area averaged mean soil loss (F) (In/Hr) =  0.293
Minimum soil loss rate ((In/Hr)) =  0.146
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.380
------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
    (hrs)                          Graph %           (CFS)
------------------------------------------------------------------------
```

1	0.083	247.873	50.617	4.249
2	0.167	495.746	40.186	3.374
3	0.250	743.618	7.090	0.595
4	0.333	991.491	2.107	0.177
			Sum = 100.000 Sum=	8.395

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.014	(0.519)	0.005	0.009
2	0.17	0.07	0.014	(0.517)	0.005	0.009
3	0.25	0.07	0.014	(0.515)	0.005	0.009
4	0.33	0.10	0.022	(0.513)	0.008	0.013
5	0.42	0.10	0.022	(0.511)	0.008	0.013
6	0.50	0.10	0.022	(0.509)	0.008	0.013
7	0.58	0.10	0.022	(0.507)	0.008	0.013
8	0.67	0.10	0.022	(0.505)	0.008	0.013
9	0.75	0.10	0.022	(0.503)	0.008	0.013
10	0.83	0.13	0.029	(0.501)	0.011	0.018
11	0.92	0.13	0.029	(0.499)	0.011	0.018
12	1.00	0.13	0.029	(0.498)	0.011	0.018
13	1.08	0.10	0.022	(0.496)	0.008	0.013
14	1.17	0.10	0.022	(0.494)	0.008	0.013
15	1.25	0.10	0.022	(0.492)	0.008	0.013
16	1.33	0.10	0.022	(0.490)	0.008	0.013
17	1.42	0.10	0.022	(0.488)	0.008	0.013
18	1.50	0.10	0.022	(0.486)	0.008	0.013
19	1.58	0.10	0.022	(0.484)	0.008	0.013
20	1.67	0.10	0.022	(0.482)	0.008	0.013
21	1.75	0.10	0.022	(0.480)	0.008	0.013
22	1.83	0.13	0.029	(0.478)	0.011	0.018
23	1.92	0.13	0.029	(0.476)	0.011	0.018
24	2.00	0.13	0.029	(0.474)	0.011	0.018
25	2.08	0.13	0.029	(0.472)	0.011	0.018
26	2.17	0.13	0.029	(0.470)	0.011	0.018
27	2.25	0.13	0.029	(0.468)	0.011	0.018
28	2.33	0.13	0.029	(0.467)	0.011	0.018
29	2.42	0.13	0.029	(0.465)	0.011	0.018
30	2.50	0.13	0.029	(0.463)	0.011	0.018
31	2.58	0.17	0.036	(0.461)	0.014	0.022
32	2.67	0.17	0.036	(0.459)	0.014	0.022
33	2.75	0.17	0.036	(0.457)	0.014	0.022
34	2.83	0.17	0.036	(0.455)	0.014	0.022
35	2.92	0.17	0.036	(0.453)	0.014	0.022
36	3.00	0.17	0.036	(0.451)	0.014	0.022
37	3.08	0.17	0.036	(0.450)	0.014	0.022
38	3.17	0.17	0.036	(0.448)	0.014	0.022
39	3.25	0.17	0.036	(0.446)	0.014	0.022
40	3.33	0.17	0.036	(0.444)	0.014	0.022
41	3.42	0.17	0.036	(0.442)	0.014	0.022
42	3.50	0.17	0.036	(0.440)	0.014	0.022
43	3.58	0.17	0.036	(0.438)	0.014	0.022
44	3.67	0.17	0.036	(0.437)	0.014	0.022
45	3.75	0.17	0.036	(0.435)	0.014	0.022
46	3.83	0.20	0.043	(0.433)	0.016	0.027
47	3.92	0.20	0.043	(0.431)	0.016	0.027
48	4.00	0.20	0.043	(0.429)	0.016	0.027
49	4.08	0.20	0.043	(0.427)	0.016	0.027
50	4.17	0.20	0.043	(0.426)	0.016	0.027
51	4.25	0.20	0.043	(0.424)	0.016	0.027
52	4.33	0.23	0.050	(0.422)	0.019	0.031
53	4.42	0.23	0.050	(0.420)	0.019	0.031
54	4.50	0.23	0.050	(0.418)	0.019	0.031
55	4.58	0.23	0.050	(0.417)	0.019	0.031
56	4.67	0.23	0.050	(0.415)	0.019	0.031
57	4.75	0.23	0.050	(0.413)	0.019	0.031
58	4.83	0.27	0.058	(0.411)	0.022	0.036
59	4.92	0.27	0.058	(0.409)	0.022	0.036
60	5.00	0.27	0.058	(0.408)	0.022	0.036
61	5.08	0.20	0.043	(0.406)	0.016	0.027
62	5.17	0.20	0.043	(0.404)	0.016	0.027
63	5.25	0.20	0.043	(0.402)	0.016	0.027
64	5.33	0.23	0.050	(0.401)	0.019	0.031
65	5.42	0.23	0.050	(0.399)	0.019	0.031
66	5.50	0.23	0.050	(0.397)	0.019	0.031
67	5.58	0.27	0.058	(0.395)	0.022	0.036
68	5.67	0.27	0.058	(0.394)	0.022	0.036
69	5.75	0.27	0.058	(0.392)	0.022	0.036
70	5.83	0.27	0.058	(0.390)	0.022	0.036
71	5.92	0.27	0.058	(0.388)	0.022	0.036
72	6.00	0.27	0.058	(0.387)	0.022	0.036
73	6.08	0.30	0.065	(0.385)	0.025	0.040
74	6.17	0.30	0.065	(0.383)	0.025	0.040

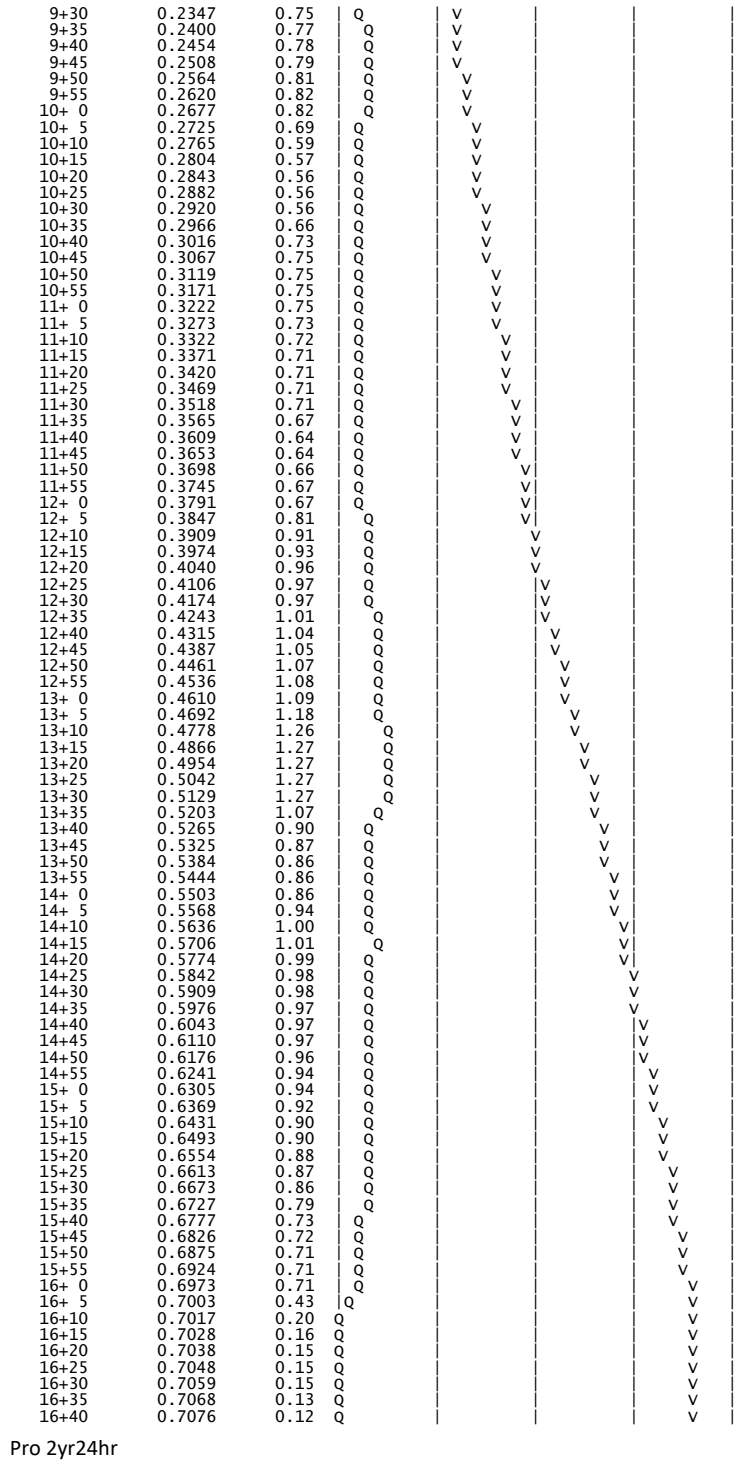
75	6.25	0.30	0.065	(0.382)	0.025	0.040
76	6.33	0.30	0.065	(0.380)	0.025	0.040
77	6.42	0.30	0.065	(0.378)	0.025	0.040
78	6.50	0.30	0.065	(0.377)	0.025	0.040
79	6.58	0.33	0.072	(0.375)	0.027	0.045
80	6.67	0.33	0.072	(0.373)	0.027	0.045
81	6.75	0.33	0.072	(0.371)	0.027	0.045
82	6.83	0.33	0.072	(0.370)	0.027	0.045
83	6.92	0.33	0.072	(0.368)	0.027	0.045
84	7.00	0.33	0.072	(0.366)	0.027	0.045
85	7.08	0.33	0.072	(0.365)	0.027	0.045
86	7.17	0.33	0.072	(0.363)	0.027	0.045
87	7.25	0.33	0.072	(0.361)	0.027	0.045
88	7.33	0.37	0.079	(0.360)	0.030	0.049
89	7.42	0.37	0.079	(0.358)	0.030	0.049
90	7.50	0.37	0.079	(0.356)	0.030	0.049
91	7.58	0.40	0.086	(0.355)	0.033	0.054
92	7.67	0.40	0.086	(0.353)	0.033	0.054
93	7.75	0.40	0.086	(0.352)	0.033	0.054
94	7.83	0.43	0.094	(0.350)	0.036	0.058
95	7.92	0.43	0.094	(0.348)	0.036	0.058
96	8.00	0.43	0.094	(0.347)	0.036	0.058
97	8.08	0.50	0.108	(0.345)	0.041	0.067
98	8.17	0.50	0.108	(0.344)	0.041	0.067
99	8.25	0.50	0.108	(0.342)	0.041	0.067
100	8.33	0.50	0.108	(0.340)	0.041	0.067
101	8.42	0.50	0.108	(0.339)	0.041	0.067
102	8.50	0.50	0.108	(0.337)	0.041	0.067
103	8.58	0.53	0.115	(0.336)	0.044	0.071
104	8.67	0.53	0.115	(0.334)	0.044	0.071
105	8.75	0.53	0.115	(0.332)	0.044	0.071
106	8.83	0.57	0.122	(0.331)	0.047	0.076
107	8.92	0.57	0.122	(0.329)	0.047	0.076
108	9.00	0.57	0.122	(0.328)	0.047	0.076
109	9.08	0.63	0.137	(0.326)	0.052	0.085
110	9.17	0.63	0.137	(0.325)	0.052	0.085
111	9.25	0.63	0.137	(0.323)	0.052	0.085
112	9.33	0.67	0.144	(0.322)	0.055	0.089
113	9.42	0.67	0.144	(0.320)	0.055	0.089
114	9.50	0.67	0.144	(0.318)	0.055	0.089
115	9.58	0.70	0.151	(0.317)	0.057	0.094
116	9.67	0.70	0.151	(0.315)	0.057	0.094
117	9.75	0.70	0.151	(0.314)	0.057	0.094
118	9.83	0.73	0.158	(0.312)	0.060	0.098
119	9.92	0.73	0.158	(0.311)	0.060	0.098
120	10.00	0.73	0.158	(0.309)	0.060	0.098
121	10.08	0.50	0.108	(0.308)	0.041	0.067
122	10.17	0.50	0.108	(0.306)	0.041	0.067
123	10.25	0.50	0.108	(0.305)	0.041	0.067
124	10.33	0.50	0.108	(0.303)	0.041	0.067
125	10.42	0.50	0.108	(0.302)	0.041	0.067
126	10.50	0.50	0.108	(0.300)	0.041	0.067
127	10.58	0.67	0.144	(0.299)	0.055	0.089
128	10.67	0.67	0.144	(0.298)	0.055	0.089
129	10.75	0.67	0.144	(0.296)	0.055	0.089
130	10.83	0.67	0.144	(0.295)	0.055	0.089
131	10.92	0.67	0.144	(0.293)	0.055	0.089
132	11.00	0.67	0.144	(0.292)	0.055	0.089
133	11.08	0.63	0.137	(0.290)	0.052	0.085
134	11.17	0.63	0.137	(0.289)	0.052	0.085
135	11.25	0.63	0.137	(0.287)	0.052	0.085
136	11.33	0.63	0.137	(0.286)	0.052	0.085
137	11.42	0.63	0.137	(0.285)	0.052	0.085
138	11.50	0.63	0.137	(0.283)	0.052	0.085
139	11.58	0.57	0.122	(0.282)	0.047	0.076
140	11.67	0.57	0.122	(0.280)	0.047	0.076
141	11.75	0.57	0.122	(0.279)	0.047	0.076
142	11.83	0.60	0.130	(0.278)	0.049	0.080
143	11.92	0.60	0.130	(0.276)	0.049	0.080
144	12.00	0.60	0.130	(0.275)	0.049	0.080
145	12.08	0.83	0.180	(0.273)	0.068	0.112
146	12.17	0.83	0.180	(0.272)	0.068	0.112
147	12.25	0.83	0.180	(0.271)	0.068	0.112
148	12.33	0.87	0.187	(0.269)	0.071	0.116
149	12.42	0.87	0.187	(0.268)	0.071	0.116
150	12.50	0.87	0.187	(0.267)	0.071	0.116
151	12.58	0.93	0.202	(0.265)	0.077	0.125
152	12.67	0.93	0.202	(0.264)	0.077	0.125
153	12.75	0.93	0.202	(0.263)	0.077	0.125
154	12.83	0.97	0.209	(0.261)	0.079	0.129
155	12.92	0.97	0.209	(0.260)	0.079	0.129
156	13.00	0.97	0.209	(0.259)	0.079	0.129
157	13.08	1.13	0.245	(0.257)	0.093	0.152
158	13.17	1.13	0.245	(0.256)	0.093	0.152
159	13.25	1.13	0.245	(0.255)	0.093	0.152
160	13.33	1.13	0.245	(0.254)	0.093	0.152
161	13.42	1.13	0.245	(0.252)	0.093	0.152

162	13.50	1.13	0.245	(0.251)	0.093	0.152
163	13.58	0.77	0.166	(0.250)	0.063	0.103
164	13.67	0.77	0.166	(0.248)	0.063	0.103
165	13.75	0.77	0.166	(0.247)	0.063	0.103
166	13.83	0.77	0.166	(0.246)	0.063	0.103
167	13.92	0.77	0.166	(0.245)	0.063	0.103
168	14.00	0.77	0.166	(0.243)	0.063	0.103
169	14.08	0.90	0.194	(0.242)	0.074	0.121
170	14.17	0.90	0.194	(0.241)	0.074	0.121
171	14.25	0.90	0.194	(0.240)	0.074	0.121
172	14.33	0.87	0.187	(0.238)	0.071	0.116
173	14.42	0.87	0.187	(0.237)	0.071	0.116
174	14.50	0.87	0.187	(0.236)	0.071	0.116
175	14.58	0.87	0.187	(0.235)	0.071	0.116
176	14.67	0.87	0.187	(0.234)	0.071	0.116
177	14.75	0.87	0.187	(0.232)	0.071	0.116
178	14.83	0.83	0.180	(0.231)	0.068	0.112
179	14.92	0.83	0.180	(0.230)	0.068	0.112
180	15.00	0.83	0.180	(0.229)	0.068	0.112
181	15.08	0.80	0.173	(0.228)	0.066	0.107
182	15.17	0.80	0.173	(0.226)	0.066	0.107
183	15.25	0.80	0.173	(0.225)	0.066	0.107
184	15.33	0.77	0.166	(0.224)	0.063	0.103
185	15.42	0.77	0.166	(0.223)	0.063	0.103
186	15.50	0.77	0.166	(0.222)	0.063	0.103
187	15.58	0.63	0.137	(0.221)	0.052	0.085
188	15.67	0.63	0.137	(0.220)	0.052	0.085
189	15.75	0.63	0.137	(0.218)	0.052	0.085
190	15.83	0.63	0.137	(0.217)	0.052	0.085
191	15.92	0.63	0.137	(0.216)	0.052	0.085
192	16.00	0.63	0.137	(0.215)	0.052	0.085
193	16.08	0.13	0.029	(0.214)	0.011	0.018
194	16.17	0.13	0.029	(0.213)	0.011	0.018
195	16.25	0.13	0.029	(0.212)	0.011	0.018
196	16.33	0.13	0.029	(0.211)	0.011	0.018
197	16.42	0.13	0.029	(0.210)	0.011	0.018
198	16.50	0.13	0.029	(0.209)	0.011	0.018
199	16.58	0.10	0.022	(0.208)	0.008	0.013
200	16.67	0.10	0.022	(0.207)	0.008	0.013
201	16.75	0.10	0.022	(0.205)	0.008	0.013
202	16.83	0.10	0.022	(0.204)	0.008	0.013
203	16.92	0.10	0.022	(0.203)	0.008	0.013
204	17.00	0.10	0.022	(0.202)	0.008	0.013
205	17.08	0.17	0.036	(0.201)	0.014	0.022
206	17.17	0.17	0.036	(0.200)	0.014	0.022
207	17.25	0.17	0.036	(0.199)	0.014	0.022
208	17.33	0.17	0.036	(0.198)	0.014	0.022
209	17.42	0.17	0.036	(0.197)	0.014	0.022
210	17.50	0.17	0.036	(0.196)	0.014	0.022
211	17.58	0.17	0.036	(0.195)	0.014	0.022
212	17.67	0.17	0.036	(0.194)	0.014	0.022
213	17.75	0.17	0.036	(0.193)	0.014	0.022
214	17.83	0.13	0.029	(0.192)	0.011	0.018
215	17.92	0.13	0.029	(0.192)	0.011	0.018
216	18.00	0.13	0.029	(0.191)	0.011	0.018
217	18.08	0.13	0.029	(0.190)	0.011	0.018
218	18.17	0.13	0.029	(0.189)	0.011	0.018
219	18.25	0.13	0.029	(0.188)	0.011	0.018
220	18.33	0.13	0.029	(0.187)	0.011	0.018
221	18.42	0.13	0.029	(0.186)	0.011	0.018
222	18.50	0.13	0.029	(0.185)	0.011	0.018
223	18.58	0.10	0.022	(0.184)	0.008	0.013
224	18.67	0.10	0.022	(0.183)	0.008	0.013
225	18.75	0.10	0.022	(0.182)	0.008	0.013
226	18.83	0.07	0.014	(0.182)	0.005	0.009
227	18.92	0.07	0.014	(0.181)	0.005	0.009
228	19.00	0.07	0.014	(0.180)	0.005	0.009
229	19.08	0.10	0.022	(0.179)	0.008	0.013
230	19.17	0.10	0.022	(0.178)	0.008	0.013
231	19.25	0.10	0.022	(0.177)	0.008	0.013
232	19.33	0.13	0.029	(0.176)	0.011	0.018
233	19.42	0.13	0.029	(0.176)	0.011	0.018
234	19.50	0.13	0.029	(0.175)	0.011	0.018
235	19.58	0.10	0.022	(0.174)	0.008	0.013
236	19.67	0.10	0.022	(0.173)	0.008	0.013
237	19.75	0.10	0.022	(0.172)	0.008	0.013
238	19.83	0.07	0.014	(0.172)	0.005	0.009
239	19.92	0.07	0.014	(0.171)	0.005	0.009
240	20.00	0.07	0.014	(0.170)	0.005	0.009
241	20.08	0.10	0.022	(0.169)	0.008	0.013
242	20.17	0.10	0.022	(0.169)	0.008	0.013
243	20.25	0.10	0.022	(0.168)	0.008	0.013
244	20.33	0.10	0.022	(0.167)	0.008	0.013
245	20.42	0.10	0.022	(0.166)	0.008	0.013
246	20.50	0.10	0.022	(0.166)	0.008	0.013
247	20.58	0.10	0.022	(0.165)	0.008	0.013
248	20.67	0.10	0.022	(0.164)	0.008	0.013

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249  20.75     0.10      0.022       (  0.164)       0.008        0.013
250  20.83     0.07      0.014       (  0.163)       0.005        0.009
251  20.92     0.07      0.014       (  0.162)       0.005        0.009
252  21.00     0.07      0.014       (  0.162)       0.005        0.009
253  21.08     0.10      0.022       (  0.161)       0.008        0.013
254  21.17     0.10      0.022       (  0.160)       0.008        0.013
255  21.25     0.10      0.022       (  0.160)       0.008        0.013
256  21.33     0.07      0.014       (  0.159)       0.005        0.009
257  21.42     0.07      0.014       (  0.159)       0.005        0.009
258  21.50     0.07      0.014       (  0.158)       0.005        0.009
259  21.58     0.10      0.022       (  0.157)       0.008        0.013
260  21.67     0.10      0.022       (  0.157)       0.008        0.013
261  21.75     0.10      0.022       (  0.156)       0.008        0.013
262  21.83     0.07      0.014       (  0.156)       0.005        0.009
263  21.92     0.07      0.014       (  0.155)       0.005        0.009
264  22.00     0.07      0.014       (  0.155)       0.005        0.009
265  22.08     0.10      0.022       (  0.154)       0.008        0.013
266  22.17     0.10      0.022       (  0.154)       0.008        0.013
267  22.25     0.10      0.022       (  0.153)       0.008        0.013
268  22.33     0.07      0.014       (  0.153)       0.005        0.009
269  22.42     0.07      0.014       (  0.152)       0.005        0.009
270  22.50     0.07      0.014       (  0.152)       0.005        0.009
271  22.58     0.07      0.014       (  0.151)       0.005        0.009
272  22.67     0.07      0.014       (  0.151)       0.005        0.009
273  22.75     0.07      0.014       (  0.151)       0.005        0.009
274  22.83     0.07      0.014       (  0.150)       0.005        0.009
275  22.92     0.07      0.014       (  0.150)       0.005        0.009
276  23.00     0.07      0.014       (  0.149)       0.005        0.009
277  23.08     0.07      0.014       (  0.149)       0.005        0.009
278  23.17     0.07      0.014       (  0.149)       0.005        0.009
279  23.25     0.07      0.014       (  0.148)       0.005        0.009
280  23.33     0.07      0.014       (  0.148)       0.005        0.009
281  23.42     0.07      0.014       (  0.148)       0.005        0.009
282  23.50     0.07      0.014       (  0.148)       0.005        0.009
283  23.58     0.07      0.014       (  0.147)       0.005        0.009
284  23.67     0.07      0.014       (  0.147)       0.005        0.009
285  23.75     0.07      0.014       (  0.147)       0.005        0.009
286  23.83     0.07      0.014       (  0.147)       0.005        0.009
287  23.92     0.07      0.014       (  0.147)       0.005        0.009
288  24.00     0.07      0.014       (  0.147)       0.005        0.009
               (Loss Rate Not Used)
    Sum =     100.0                                  Sum =    13.4
      Flood volume = Effective rainfall      1.12(In)
       times area       8.3(Ac.)/[(In)/(Ft.)] =       0.8(Ac.Ft)
      Total soil loss =       0.68(In)
      Total soil loss =     0.475(Ac.Ft)
      Total rainfall =      1.80(In)
      Flood volume =       33744.9 Cubic Feet
      Total soil loss =       20682.4 Cubic Feet
      ---------------------------------------------------------------------
       Peak flow rate of this hydrograph =      1.275(CFS)
      ---------------------------------------------------------------------
      +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                          24 - 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   5   Minute intervals ((CFS))

      ---------------------------------------------------------------------
 Time(h+m) Volume Ac.Ft   Q(CFS)  0        2.5       5.0       7.5       10.0
 ----------------------------------------------------------------------------
   0+ 5       0.0003      0.04  Q          |         |         |         |
   0+10       0.0007      0.07  Q          |         |         |         |
   0+15       0.0012      0.07  Q          |         |         |         |
   0+20       0.0019      0.09  Q          |         |         |         |
   0+25       0.0026      0.11  Q          |         |         |         |
   0+30       0.0034      0.11  Q          |         |         |         |
   0+35       0.0042      0.11  Q          |         |         |         |
   0+40       0.0050      0.11  Q          |         |         |         |
   0+45       0.0057      0.11  Q          |         |         |         |
   0+50       0.0066      0.13  Q          |         |         |         |
   0+55       0.0076      0.15  Q          |         |         |         |
   1+ 0       0.0087      0.15  Q          |         |         |         |
   1+ 5       0.0096      0.13  Q          |         |         |         |
   1+10       0.0104      0.12  Q          |         |         |         |
   1+15       0.0112      0.11  Q          |         |         |         |
   1+20       0.0119      0.11  Q          |         |         |         |
   1+25       0.0127      0.11  Q          |         |         |         |
   1+30       0.0135      0.11  Q          |         |         |         |
   1+35       0.0142      0.11  Q          |         |         |         |
   1+40       0.0150      0.11  Q          |         |         |         |
   1+45       0.0158      0.11  Q          |         |         |         |
   1+50       0.0167      0.13  Q          |         |         |         |
   1+55       0.0177      0.15  Q          |         |         |         |
   2+ 0       0.0187      0.15  Q          |         |         |         |
   2+ 5       0.0198      0.15  QV         |         |         |         |
   2+10       0.0208      0.15  QV         |         |         |         |
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2+15       0.0218      0.15  QV        |         |         |         |
2+20       0.0229      0.15  QV        |         |         |         |
2+25       0.0239      0.15  QV        |         |         |         |
2+30       0.0249      0.15  QV        |         |         |         |
2+35       0.0261      0.17  QV        |         |         |         |
2+40       0.0274      0.18  QV        |         |         |         |
2+45       0.0287      0.19  QV        |         |         |         |
2+50       0.0299      0.19  QV        |         |         |         |
2+55       0.0312      0.19  QV        |         |         |         |
3+ 0       0.0325      0.19  QV        |         |         |         |
3+ 5       0.0338      0.19  QV        |         |         |         |
3+10       0.0351      0.19  QV        |         |         |         |
3+15       0.0364      0.19  QV        |         |         |         |
3+20       0.0377      0.19  QV        |         |         |         |
3+25       0.0390      0.19  Q V       |         |         |         |
3+30       0.0403      0.19  Q V       |         |         |         |
3+35       0.0416      0.19  Q V       |         |         |         |
3+40       0.0429      0.19  Q V       |         |         |         |
3+45       0.0441      0.19  Q V       |         |         |         |
3+50       0.0456      0.21  Q V       |         |         |         |
3+55       0.0471      0.22  Q V       |         |         |         |
4+ 0       0.0486      0.22  Q V       |         |         |         |
4+ 5       0.0502      0.22  Q V       |         |         |         |
4+10       0.0517      0.22  Q V       |         |         |         |
4+15       0.0533      0.22  Q V       |         |         |         |
4+20       0.0550      0.24  Q V       |         |         |         |
4+25       0.0568      0.26  |QV       |         |         |         |
4+30       0.0586      0.26  |Q V      |         |         |         |
4+35       0.0604      0.26  |Q V      |         |         |         |
4+40       0.0622      0.26  |Q V      |         |         |         |
4+45       0.0640      0.26  |Q V      |         |         |         |
4+50       0.0659      0.28  |Q V      |         |         |         |
4+55       0.0680      0.30  |Q V      |         |         |         |
5+ 0       0.0700      0.30  |Q V      |         |         |         |
5+ 5       0.0718      0.26  |Q V      |         |         |         |
5+10       0.0734      0.23  Q  V      |         |         |         |
5+15       0.0750      0.23  Q  V      |         |         |         |
5+20       0.0767      0.24  Q  V      |         |         |         |
5+25       0.0784      0.26  |Q  V      |         |         |         |
5+30       0.0802      0.26  |Q  V      |         |         |         |
5+35       0.0822      0.28  |Q  V      |         |         |         |
5+40       0.0842      0.30  |Q  V      |         |         |         |
5+45       0.0863      0.30  |Q  V      |         |         |         |
5+50       0.0884      0.30  |Q  V      |         |         |         |
5+55       0.0904      0.30  |Q  V      |         |         |         |
6+ 0       0.0925      0.30  |Q  V      |         |         |         |
6+ 5       0.0947      0.32  |Q  V      |         |         |         |
6+10       0.0970      0.33  |Q   V     |         |         |         |
6+15       0.0993      0.34  |Q   V     |         |         |         |
6+20       0.1016      0.34  |Q   V     |         |         |         |
6+25       0.1039      0.34  |Q   V     |         |         |         |
6+30       0.1063      0.34  |Q   V     |         |         |         |
6+35       0.1087      0.36  |Q   V     |         |         |         |
6+40       0.1113      0.37  |Q   V     |         |         |         |
6+45       0.1139      0.37  |Q   V     |         |         |         |
6+50       0.1164      0.37  |Q    V    |         |         |         |
6+55       0.1190      0.37  |Q    V    |         |         |         |
7+ 0       0.1216      0.37  |Q    V    |         |         |         |
7+ 5       0.1242      0.37  |Q    V    |         |         |         |
7+10       0.1268      0.37  |Q    V    |         |         |         |
7+15       0.1294      0.37  |Q    V    |         |         |         |
7+20       0.1321      0.39  |Q    V    |         |         |         |
7+25       0.1349      0.41  |Q    V    |         |         |         |
7+30       0.1377      0.41  |Q     V   |         |         |         |
7+35       0.1407      0.43  |Q     V   |         |         |         |
7+40       0.1438      0.45  |Q     V   |         |         |         |
7+45       0.1469      0.45  |Q     V   |         |         |         |
7+50       0.1501      0.47  |Q     V   |         |         |         |
7+55       0.1534      0.48  |Q     V   |         |         |         |
8+ 0       0.1568      0.49  |Q      V  |         |         |         |
8+ 5       0.1604      0.53  | Q     V  |         |         |         |
8+10       0.1642      0.56  | Q     V  |         |         |         |
8+15       0.1681      0.56  | Q     V  |         |         |         |
8+20       0.1720      0.56  | Q     V  |         |         |         |
8+25       0.1758      0.56  | Q      V|         |         |         |
8+30       0.1797      0.56  | Q      V|         |         |         |
8+35       0.1837      0.58  | Q      V|         |         |         |
8+40       0.1878      0.60  | Q      V|         |         |         |
8+45       0.1919      0.60  | Q      V|         |         |         |
8+50       0.1962      0.62  | Q       V         |         |         |
8+55       0.2006      0.63  | Q       V         |         |         |
9+ 0       0.2049      0.64  | Q       V         |         |         |
9+ 5       0.2096      0.68  | Q       V         |         |         |
9+10       0.2145      0.71  | Q        |V       |         |         |
9+15       0.2194      0.71  | Q        |V       |         |         |
9+20       0.2244      0.73  | Q        |V       |         |         |
9+25       0.2295      0.75  | Q        |V       |         |         |
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16+45	0.7084	0.11	Q	|	|	|	V |
16+50	0.7091	0.11	Q	|	|	|	V |
16+55	0.7099	0.11	Q	|	|	|	V |
17+ 0	0.7107	0.11	Q	|	|	|	V |
17+ 5	0.7117	0.15	Q	|	|	|	V |
17+10	0.7130	0.18	Q	|	|	|	V |
17+15	0.7142	0.19	Q	|	|	|	V |
17+20	0.7155	0.19	Q	|	|	|	V |
17+25	0.7168	0.19	Q	|	|	|	V |
17+30	0.7181	0.19	Q	|	|	|	V |
17+35	0.7194	0.19	Q	|	|	|	V |
17+40	0.7207	0.19	Q	|	|	|	V |
17+45	0.7220	0.19	Q	|	|	|	V |
17+50	0.7232	0.17	Q	|	|	|	V |
17+55	0.7242	0.15	Q	|	|	|	V |
18+ 0	0.7252	0.15	Q	|	|	|	V |
18+ 5	0.7263	0.15	Q	|	|	|	V |
18+10	0.7273	0.15	Q	|	|	|	V |
18+15	0.7283	0.15	Q	|	|	|	V |
18+20	0.7294	0.15	Q	|	|	|	V |
18+25	0.7304	0.15	Q	|	|	|	V |
18+30	0.7314	0.15	Q	|	|	|	V |
18+35	0.7323	0.13	Q	|	|	|	V |
18+40	0.7331	0.12	Q	|	|	|	V |
18+45	0.7339	0.11	Q	|	|	|	V |
18+50	0.7346	0.09	Q	|	|	|	V |
18+55	0.7351	0.08	Q	|	|	|	V |
19+ 0	0.7356	0.08	Q	|	|	|	V |
19+ 5	0.7363	0.09	Q	|	|	|	V |
19+10	0.7370	0.11	Q	|	|	|	V |
19+15	0.7378	0.11	Q	|	|	|	V |
19+20	0.7387	0.13	Q	|	|	|	V |
19+25	0.7397	0.15	Q	|	|	|	V |
19+30	0.7407	0.15	Q	|	|	|	V |
19+35	0.7416	0.13	Q	|	|	|	V |
19+40	0.7424	0.12	Q	|	|	|	V |
19+45	0.7432	0.11	Q	|	|	|	V |
19+50	0.7439	0.09	Q	|	|	|	V |
19+55	0.7444	0.08	Q	|	|	|	V |
20+ 0	0.7449	0.08	Q	|	|	|	V |
20+ 5	0.7456	0.09	Q	|	|	|	V |
20+10	0.7463	0.11	Q	|	|	|	V |
20+15	0.7471	0.11	Q	|	|	|	V |
20+20	0.7479	0.11	Q	|	|	|	V |
20+25	0.7486	0.11	Q	|	|	|	V |
20+30	0.7494	0.11	Q	|	|	|	V |
20+35	0.7502	0.11	Q	|	|	|	V |
20+40	0.7510	0.11	Q	|	|	|	V |
20+45	0.7517	0.11	Q	|	|	|	V |
20+50	0.7524	0.09	Q	|	|	|	V |
20+55	0.7529	0.08	Q	|	|	|	V |
21+ 0	0.7534	0.08	Q	|	|	|	V |
21+ 5	0.7541	0.09	Q	|	|	|	V |
21+10	0.7548	0.11	Q	|	|	|	V |
21+15	0.7556	0.11	Q	|	|	|	V|
21+20	0.7563	0.09	Q	|	|	|	V|
21+25	0.7568	0.08	Q	|	|	|	V|
21+30	0.7573	0.08	Q	|	|	|	V|
21+35	0.7580	0.09	Q	|	|	|	V|
21+40	0.7587	0.11	Q	|	|	|	V|
21+45	0.7595	0.11	Q	|	|	|	V|
21+50	0.7601	0.09	Q	|	|	|	V|
21+55	0.7607	0.08	Q	|	|	|	V|
22+ 0	0.7612	0.08	Q	|	|	|	V|
22+ 5	0.7618	0.09	Q	|	|	|	V|
22+10	0.7626	0.11	Q	|	|	|	V|
22+15	0.7634	0.11	Q	|	|	|	V|
22+20	0.7640	0.09	Q	|	|	|	V|
22+25	0.7645	0.08	Q	|	|	|	V|
22+30	0.7651	0.08	Q	|	|	|	V|
22+35	0.7656	0.07	Q	|	|	|	V|
22+40	0.7661	0.07	Q	|	|	|	V|
22+45	0.7666	0.07	Q	|	|	|	V|
22+50	0.7671	0.07	Q	|	|	|	V|
22+55	0.7677	0.07	Q	|	|	|	V|
23+ 0	0.7682	0.07	Q	|	|	|	V|
23+ 5	0.7687	0.07	Q	|	|	|	V|
23+10	0.7692	0.07	Q	|	|	|	V|
23+15	0.7697	0.07	Q	|	|	|	V|
23+20	0.7702	0.07	Q	|	|	|	V|
23+25	0.7707	0.07	Q	|	|	|	V|
23+30	0.7713	0.07	Q	|	|	|	V|
23+35	0.7718	0.07	Q	|	|	|	V|
23+40	0.7723	0.07	Q	|	|	|	V|
23+45	0.7728	0.07	Q	|	|	|	V|
23+50	0.7733	0.07	Q	|	|	|	V|
23+55	0.7738	0.07	Q	|	|	|	V|

```
   24+ 0       0.7744      0.07  Q          |          |          |        V|
   24+ 5       0.7746      0.04  Q          |          |          |        V|
   24+10       0.7747      0.01  Q          |          |          |        V|
   24+15       0.7747      0.00  Q          |          |          |         V
-------------------------------------------------------------------------------
```

```
       U n i t   H y d r o g r a p h   A n a l y s i s

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++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
------------------------------------------------------------------------------

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       8.33(Ac.)  =      0.013 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       8.33(Ac.)  =      0.013 Sq. Mi.
Length along longest watercourse =     997.00(Ft.)
Length along longest watercourse measured to centroid =     499.00(Ft.)
Length along longest watercourse =      0.189 Mi.
Length along longest watercourse measured to centroid =      0.095 Mi.
Difference in elevation =      15.80(Ft.)
Slope along watercourse =     83.6750 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time =    0.034 Hr.
Lag time =     2.02 Min.
25% of lag time =     0.50 Min.
40% of lag time =     0.81 Min.
Unit time =     5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            0.50                 4.17

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            1.20                10.00

STORM EVENT (YEAR) =    5.00
Area Averaged 2-Year Rainfall =    0.500(In)
Area Averaged 100-Year Rainfall =    1.200(In)

Point rain (area averaged) =    0.664(In)
Areal adjustment factor =   99.99 %
Adjusted average point rain =    0.664(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     8.330           56.00          0.650
 Total Area Entered =      8.33(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-1     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
56.0  36.0      0.706     0.650        0.293       1.000      0.293
                                                 Sum (F) =   0.293
Area averaged mean soil loss (F) (In/Hr) =  0.293
Minimum soil loss rate ((In/Hr)) =  0.146
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.380
------------------------------------------------------------------------
Slope of intensity-duration curve for a 1 hour storm =0.5000
------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
------------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
```

```
        (hrs)                          Graph %            (CFS)
      ------------------------------------------------------------------------
         1   0.083        247.873         50.617              4.249
         2   0.167        495.746         40.186              3.374
         3   0.250        743.618          7.090              0.595
         4   0.333        991.491          2.107              0.177
                                  Sum = 100.000   Sum=         8.395
------------------------------------------------------------------------------


 The following loss rate calculations reflect use of the minimum calculated loss
 rate subtracted from the Storm Rain to produce the maximum Effective Rain value

  Unit Time   Pattern   Storm Rain     Loss rate(In./Hr)     Effective
       (Hr.)  Percent   (In/Hr)         Max    |   Low        (In/Hr)
    1   0.08     4.20      0.335       (  0.293)       0.127        0.207
    2   0.17     4.30      0.343       (  0.293)       0.130        0.212
    3   0.25     5.00      0.398       (  0.293)       0.151        0.247
    4   0.33     5.00      0.398       (  0.293)       0.151        0.247
    5   0.42     5.80      0.462       (  0.293)       0.176        0.286
    6   0.50     6.50      0.518       (  0.293)       0.197        0.321
    7   0.58     7.40      0.590       (  0.293)       0.224        0.366
    8   0.67     8.60      0.685       (  0.293)       0.260        0.425
    9   0.75    12.30      0.980          0.293    (  0.372)        0.687
   10   0.83    29.10      2.318          0.293    (  0.881)        2.025
   11   0.92     6.80      0.542       (  0.293)       0.206        0.336
   12   1.00     5.00      0.398       (  0.293)       0.151        0.247
             (Loss Rate Not Used)
     Sum =     100.0                                  Sum =     5.6
       Flood volume = Effective rainfall      0.47(In)
        times area       8.3(Ac.)/[(In)/(Ft.)] =       0.3(Ac.Ft)
       Total soil loss =       0.20(In)
       Total soil loss =     0.137(Ac.Ft)
       Total rainfall =      0.66(In)
       Flood volume =       14128.2 Cubic Feet
       Total soil loss =        5946.9 Cubic Feet
       ---------------------------------------------------------------------
        Peak flow rate of this hydrograph =     11.247(CFS)
       ---------------------------------------------------------------------
       +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                          1 - 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   5   Minute intervals ((CFS))

       ---------------------------------------------------------------------
  Time(h+m) Volume Ac.Ft   Q(CFS)  0         5.0       10.0      15.0      20.0
  ----------------------------------------------------------------------------
    0+ 5       0.0061      0.88  VQ         |         |         |         |
    0+10       0.0171      1.60  | VQ       |         |         |         |
    0+15       0.0301      1.89  |  Q       |         |         |         |
    0+20       0.0442      2.05  |   QV     |         |         |         |
    0+25       0.0596      2.24  |    Q  V  |         |         |         |
    0+30       0.0770      2.52  |     Q   V|         |         |         |
    0+35       0.0967      2.85  |     Q    |V        |         |         |
    0+40       0.1193      3.28  |      Q   |  V      |         |         |
    0+45       0.1511      4.63  |         Q|       V |         |         |
    0+50       0.2286     11.25  |          |         | Q     V |         |
    0+55       0.2888      8.75  |          |       Q |       | V       |
    1+ 0       0.3130      3.51  |        Q |         |       |    V    |
    1+ 5       0.3226      1.39  | Q        |         |       |      V  |
    1+10       0.3240      0.21  Q          |         |         |       V |
    1+15       0.3243      0.04  Q          |         |         |       V |
  ----------------------------------------------------------------------------
```

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       U n i t   H y d r o g r a p h   A n a l y s i s

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              Study date  03/01/22 File: pro535.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       8.33(Ac.)  =      0.013 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       8.33(Ac.)  =      0.013 Sq. Mi.
Length along longest watercourse =     997.00(Ft.)
Length along longest watercourse measured to centroid =     499.00(Ft.)
Length along longest watercourse =      0.189 Mi.
Length along longest watercourse measured to centroid =      0.095 Mi.
Difference in elevation =      15.80(Ft.)
Slope along watercourse =     83.6750 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time =    0.034 Hr.
Lag time =     2.02 Min.
25% of lag time =     0.50 Min.
40% of lag time =     0.81 Min.
Unit time =     5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            0.80                 6.66

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            1.90                15.83

STORM EVENT (YEAR) =    5.00
Area Averaged 2-Year Rainfall =    0.800(In)
Area Averaged 100-Year Rainfall =    1.900(In)

Point rain (area averaged) =    1.058(In)
Areal adjustment factor =  100.00 %
Adjusted average point rain =    1.058(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     8.330           56.00          0.650
 Total Area Entered =      8.33(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-1     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
56.0  36.0      0.706     0.650        0.293       1.000      0.293
                                                 Sum (F) =   0.293
Area averaged mean soil loss (F) (In/Hr) =  0.293
Minimum soil loss rate ((In/Hr)) =  0.146
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.380
------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
    (hrs)                          Graph %           (CFS)
------------------------------------------------------------------------
```

1	0.083	247.873	50.617	4.249
2	0.167	495.746	40.186	3.374
3	0.250	743.618	7.090	0.595
4	0.333	991.491	2.107	0.177
		Sum = 100.000	Sum=	8.395

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	1.30	0.165	(0.293)	0.063	0.102
2	0.17	1.30	0.165	(0.293)	0.063	0.102
3	0.25	1.10	0.140	(0.293)	0.053	0.087
4	0.33	1.50	0.190	(0.293)	0.072	0.118
5	0.42	1.50	0.190	(0.293)	0.072	0.118
6	0.50	1.80	0.228	(0.293)	0.087	0.142
7	0.58	1.50	0.190	(0.293)	0.072	0.118
8	0.67	1.80	0.228	(0.293)	0.087	0.142
9	0.75	1.80	0.228	(0.293)	0.087	0.142
10	0.83	1.50	0.190	(0.293)	0.072	0.118
11	0.92	1.60	0.203	(0.293)	0.077	0.126
12	1.00	1.80	0.228	(0.293)	0.087	0.142
13	1.08	2.20	0.279	(0.293)	0.106	0.173
14	1.17	2.20	0.279	(0.293)	0.106	0.173
15	1.25	2.20	0.279	(0.293)	0.106	0.173
16	1.33	2.00	0.254	(0.293)	0.096	0.157
17	1.42	2.60	0.330	(0.293)	0.125	0.205
18	1.50	2.70	0.343	(0.293)	0.130	0.212
19	1.58	2.40	0.305	(0.293)	0.116	0.189
20	1.67	2.70	0.343	(0.293)	0.130	0.212
21	1.75	3.30	0.419	(0.293)	0.159	0.260
22	1.83	3.10	0.393	(0.293)	0.150	0.244
23	1.92	2.90	0.368	(0.293)	0.140	0.228
24	2.00	3.00	0.381	(0.293)	0.145	0.236
25	2.08	3.10	0.393	(0.293)	0.150	0.244
26	2.17	4.20	0.533	(0.293)	0.203	0.330
27	2.25	5.00	0.635	(0.293)	0.241	0.393
28	2.33	3.50	0.444	(0.293)	0.169	0.275
29	2.42	6.80	0.863	0.293	(0.328)	0.570
30	2.50	7.30	0.926	0.293	(0.352)	0.633
31	2.58	8.20	1.041	0.293	(0.395)	0.748
32	2.67	5.90	0.749	(0.293)	0.285	0.464
33	2.75	2.00	0.254	(0.293)	0.096	0.157
34	2.83	1.80	0.228	(0.293)	0.087	0.142
35	2.92	1.80	0.228	(0.293)	0.087	0.142
36	3.00	0.60	0.076	(0.293)	0.029	0.047
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	8.1

Flood volume = Effective rainfall 0.67(In)
times area 8.3(Ac.)/[(In)/(Ft.)] = 0.5(Ac.Ft)
Total soil loss = 0.39(In)
Total soil loss = 0.268(Ac.Ft)
Total rainfall = 1.06(In)
Flood volume = 20322.6 Cubic Feet
Total soil loss = 11657.2 Cubic Feet

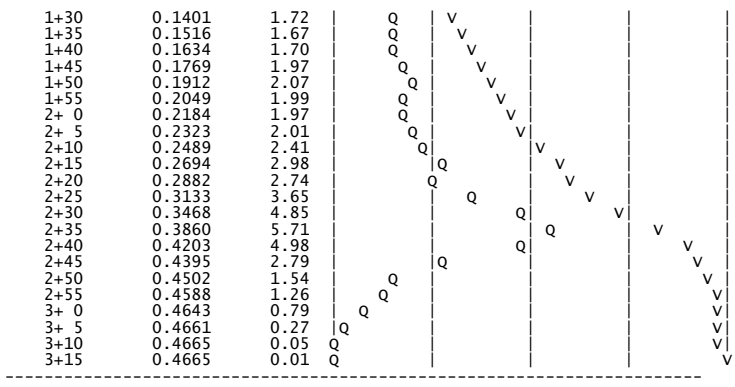
Peak flow rate of this hydrograph = 5.705(CFS)

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3 - 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 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0030	0.43	VQ				
0+10	0.0084	0.78	V Q				
0+15	0.0137	0.77	V Q				
0+20	0.0197	0.87	V Q				
0+25	0.0264	0.97	VQ				
0+30	0.0339	1.09	V Q				
0+35	0.0412	1.07	VQ				
0+40	0.0489	1.11	Q				
0+45	0.0570	1.18	Q				
0+50	0.0644	1.09	QV				
0+55	0.0716	1.04	Q V				
1+ 0	0.0793	1.12	Q V				
1+ 5	0.0884	1.31	Q V				
1+10	0.0982	1.43	Q V				
1+15	0.1082	1.45	Q V				
1+20	0.1177	1.39	Q V				
1+25	0.1283	1.53	Q V				


1+30 0.1401 1.72
1+35 0.1516 1.67
1+40 0.1634 1.70
1+45 0.1769 1.97
1+50 0.1912 2.07
1+55 0.2049 1.99
2+ 0 0.2184 1.97
2+ 5 0.2323 2.01
2+10 0.2489 2.41
2+15 0.2694 2.98
2+20 0.2882 2.74
2+25 0.3133 3.65
2+30 0.3468 4.85
2+35 0.3860 5.71
2+40 0.4203 4.98
2+45 0.4395 2.79
2+50 0.4502 1.54
2+55 0.4588 1.26
3+ 0 0.4643 0.79
3+ 5 0.4661 0.27
3+10 0.4665 0.05
3+15 0.4665 0.01

```
       U n i t   H y d r o g r a p h   A n a l y s i s

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              Study date  03/01/22 File: pro565.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       8.33(Ac.)  =      0.013 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       8.33(Ac.)  =      0.013 Sq. Mi.
Length along longest watercourse =     997.00(Ft.)
Length along longest watercourse measured to centroid =     499.00(Ft.)
Length along longest watercourse =      0.189 Mi.
Length along longest watercourse measured to centroid =      0.095 Mi.
Difference in elevation =      15.80(Ft.)
Slope along watercourse =     83.6750 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time =    0.034 Hr.
Lag time =     2.02 Min.
25% of lag time =     0.50 Min.
40% of lag time =     0.81 Min.
Unit time =     5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            1.20                 10.00

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            2.50                 20.82

STORM EVENT (YEAR) =    5.00
Area Averaged 2-Year Rainfall =    1.200(In)
Area Averaged 100-Year Rainfall =    2.500(In)

Point rain (area averaged) =    1.504(In)
Areal adjustment factor =  100.00 %
Adjusted average point rain =    1.504(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     8.330           56.00          0.650
 Total Area Entered =      8.33(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-1     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
56.0  36.0      0.706     0.650        0.293       1.000      0.293
                                                 Sum (F) =   0.293
Area averaged mean soil loss (F) (In/Hr) =  0.293
Minimum soil loss rate ((In/Hr)) =  0.146
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.380
------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
-------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
    (hrs)                          Graph %           (CFS)
------------------------------------------------------------------------
```

1	0.083	247.873	50.617	4.249
2	0.167	495.746	40.186	3.374
3	0.250	743.618	7.090	0.595
4	0.333	991.491	2.107	0.177
			Sum = 100.000 Sum=	8.395

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.090	(0.293)	0.034	0.056
2	0.17	0.60	0.108	(0.293)	0.041	0.067
3	0.25	0.60	0.108	(0.293)	0.041	0.067
4	0.33	0.60	0.108	(0.293)	0.041	0.067
5	0.42	0.60	0.108	(0.293)	0.041	0.067
6	0.50	0.70	0.126	(0.293)	0.048	0.078
7	0.58	0.70	0.126	(0.293)	0.048	0.078
8	0.67	0.70	0.126	(0.293)	0.048	0.078
9	0.75	0.70	0.126	(0.293)	0.048	0.078
10	0.83	0.70	0.126	(0.293)	0.048	0.078
11	0.92	0.70	0.126	(0.293)	0.048	0.078
12	1.00	0.80	0.144	(0.293)	0.055	0.090
13	1.08	0.80	0.144	(0.293)	0.055	0.090
14	1.17	0.80	0.144	(0.293)	0.055	0.090
15	1.25	0.80	0.144	(0.293)	0.055	0.090
16	1.33	0.80	0.144	(0.293)	0.055	0.090
17	1.42	0.80	0.144	(0.293)	0.055	0.090
18	1.50	0.80	0.144	(0.293)	0.055	0.090
19	1.58	0.80	0.144	(0.293)	0.055	0.090
20	1.67	0.80	0.144	(0.293)	0.055	0.090
21	1.75	0.80	0.144	(0.293)	0.055	0.090
22	1.83	0.80	0.144	(0.293)	0.055	0.090
23	1.92	0.80	0.144	(0.293)	0.055	0.090
24	2.00	0.90	0.162	(0.293)	0.062	0.101
25	2.08	0.80	0.144	(0.293)	0.055	0.090
26	2.17	0.90	0.162	(0.293)	0.062	0.101
27	2.25	0.90	0.162	(0.293)	0.062	0.101
28	2.33	0.90	0.162	(0.293)	0.062	0.101
29	2.42	0.90	0.162	(0.293)	0.062	0.101
30	2.50	0.90	0.162	(0.293)	0.062	0.101
31	2.58	0.90	0.162	(0.293)	0.062	0.101
32	2.67	0.90	0.162	(0.293)	0.062	0.101
33	2.75	1.00	0.181	(0.293)	0.069	0.112
34	2.83	1.00	0.181	(0.293)	0.069	0.112
35	2.92	1.00	0.181	(0.293)	0.069	0.112
36	3.00	1.00	0.181	(0.293)	0.069	0.112
37	3.08	1.00	0.181	(0.293)	0.069	0.112
38	3.17	1.10	0.199	(0.293)	0.075	0.123
39	3.25	1.10	0.199	(0.293)	0.075	0.123
40	3.33	1.10	0.199	(0.293)	0.075	0.123
41	3.42	1.20	0.217	(0.293)	0.082	0.134
42	3.50	1.30	0.235	(0.293)	0.089	0.146
43	3.58	1.40	0.253	(0.293)	0.096	0.157
44	3.67	1.40	0.253	(0.293)	0.096	0.157
45	3.75	1.50	0.271	(0.293)	0.103	0.168
46	3.83	1.50	0.271	(0.293)	0.103	0.168
47	3.92	1.60	0.289	(0.293)	0.110	0.179
48	4.00	1.60	0.289	(0.293)	0.110	0.179
49	4.08	1.70	0.307	(0.293)	0.117	0.190
50	4.17	1.80	0.325	(0.293)	0.123	0.201
51	4.25	1.90	0.343	(0.293)	0.130	0.213
52	4.33	2.00	0.361	(0.293)	0.137	0.224
53	4.42	2.10	0.379	(0.293)	0.144	0.235
54	4.50	2.10	0.379	(0.293)	0.144	0.235
55	4.58	2.20	0.397	(0.293)	0.151	0.246
56	4.67	2.30	0.415	(0.293)	0.158	0.257
57	4.75	2.40	0.433	(0.293)	0.165	0.269
58	4.83	2.40	0.433	(0.293)	0.165	0.269
59	4.92	2.50	0.451	(0.293)	0.172	0.280
60	5.00	2.60	0.469	(0.293)	0.178	0.291
61	5.08	3.10	0.560	(0.293)	0.213	0.347
62	5.17	3.60	0.650	(0.293)	0.247	0.403
63	5.25	3.90	0.704	(0.293)	0.268	0.437
64	5.33	4.20	0.758	(0.293)	0.288	0.470
65	5.42	4.70	0.849	0.293	(0.322)	0.556
66	5.50	5.60	1.011	0.293	(0.384)	0.718
67	5.58	1.90	0.343	(0.293)	0.130	0.213
68	5.67	0.90	0.162	(0.293)	0.062	0.101
69	5.75	0.60	0.108	(0.293)	0.041	0.067
70	5.83	0.50	0.090	(0.293)	0.034	0.056
71	5.92	0.30	0.054	(0.293)	0.021	0.034
72	6.00	0.20	0.036	(0.293)	0.014	0.022
		(Loss Rate Not Used)				
	Sum =	100.0			Sum =	11.3

```
Flood volume = Effective rainfall      0.94(In)
 times area       8.3(Ac.)/[(In)/(Ft.)] =       0.7(Ac.Ft)
Total soil loss =      0.56(In)
Total soil loss =     0.390(Ac.Ft)
Total rainfall =      1.50(In)
Flood volume =       28508.6 Cubic Feet
Total soil loss =       16982.8 Cubic Feet
--------------------------------------------------------------------------
 Peak flow rate of this hydrograph =      5.285(CFS)
--------------------------------------------------------------------------
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                      6 - 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   5   Minute intervals ((CFS))

--------------------------------------------------------------------------
Time(h+m) Volume Ac.Ft   Q(CFS)  0        2.5       5.0       7.5      10.0
--------------------------------------------------------------------------
  0+ 5       0.0016      0.24  Q         |         |         |         |
  0+10       0.0049      0.47  VQ        |         |         |         |
  0+15       0.0087      0.55  V Q       |         |         |         |
  0+20       0.0125      0.56  V Q       |         |         |         |
  0+25       0.0164      0.56  |VQ       |         |         |         |
  0+30       0.0206      0.61  |VQ       |         |         |         |
  0+35       0.0251      0.65  |VQ       |         |         |         |
  0+40       0.0296      0.66  |VQ       |         |         |         |
  0+45       0.0342      0.66  | Q       |         |         |         |
  0+50       0.0387      0.66  | Q       |         |         |         |
  0+55       0.0432      0.66  | Q       |         |         |         |
  1+ 0       0.0481      0.71  | Q       |         |         |         |
  1+ 5       0.0532      0.74  | QV      |         |         |         |
  1+10       0.0584      0.75  |  Q      |         |         |         |
  1+15       0.0635      0.75  |  Q      |         |         |         |
  1+20       0.0687      0.75  |  QV     |         |         |         |
  1+25       0.0739      0.75  |  QV     |         |         |         |
  1+30       0.0791      0.75  |  QV     |         |         |         |
  1+35       0.0843      0.75  |  Q V    |         |         |         |
  1+40       0.0894      0.75  |  Q V    |         |         |         |
  1+45       0.0946      0.75  |  Q V    |         |         |         |
  1+50       0.0998      0.75  |  Q  V   |         |         |         |
  1+55       0.1050      0.75  |  Q  V   |         |         |         |
  2+ 0       0.1105      0.80  |  Q  V   |         |         |         |
  2+ 5       0.1159      0.79  |  Q   V  |         |         |         |
  2+10       0.1215      0.81  |  Q   V  |         |         |         |
  2+15       0.1273      0.84  |  Q   V  |         |         |         |
  2+20       0.1331      0.84  |  Q    V |         |         |         |
  2+25       0.1389      0.85  |  Q    V |         |         |         |
  2+30       0.1447      0.85  |  Q    V |         |         |         |
  2+35       0.1506      0.85  |  Q     V|         |         |         |
  2+40       0.1564      0.85  |  Q     V|         |         |         |
  2+45       0.1625      0.89  |  Q     V|         |         |         |
  2+50       0.1690      0.93  |  Q      V         |         |         |
  2+55       0.1754      0.94  |  Q      V         |         |         |
  3+ 0       0.1819      0.94  |  Q      |V        |         |         |
  3+ 5       0.1884      0.94  |  Q      |V        |         |         |
  3+10       0.1952      0.99  |  Q      |V        |         |         |
  3+15       0.2022      1.03  |   Q     | V       |         |         |
  3+20       0.2093      1.03  |   Q     | V       |         |         |
  3+25       0.2168      1.08  |   Q     |  V      |         |         |
  3+30       0.2248      1.17  |   Q     |  V      |         |         |
  3+35       0.2335      1.26  |    Q    |   V     |         |         |
  3+40       0.2425      1.31  |    Q    |   V     |         |         |
  3+45       0.2519      1.36  |    Q    |    V    |         |         |
  3+50       0.2615      1.40  |    Q    |    V    |         |         |
  3+55       0.2716      1.46  |    Q    |     V   |         |         |
  4+ 0       0.2819      1.50  |    Q    |      V  |         |         |
  4+ 5       0.2925      1.55  |     Q   |      V  |         |         |
  4+10       0.3038      1.64  |     Q   |       V |         |         |
  4+15       0.3157      1.73  |     Q   |        V|         |         |
  4+20       0.3283      1.82  |      Q  |         V         |         |
  4+25       0.3415      1.92  |      Q  |         V         |         |
  4+30       0.3550      1.96  |      Q  |         |V        |         |
  4+35       0.3689      2.02  |       Q |         | V       |         |
  4+40       0.3834      2.11  |       Q |         |  V      |         |
  4+45       0.3986      2.20  |       Q |         |   V     |         |
  4+50       0.4140      2.25  |       Q |         |    V    |         |
  4+55       0.4299      2.30  |        Q|         |     V   |         |
  5+ 0       0.4464      2.39  |        Q|         |      V  |         |
  5+ 5       0.4648      2.67  |         Q         |       V |         |
  5+10       0.4862      3.11  |         | Q       |        V|         |
  5+15       0.5101      3.47  |         |  Q      |         |V        |
  5+20       0.5361      3.77  |         |    Q    |         | V       |
  5+25       0.5655      4.28  |         |      Q  |         |  V      |
  5+30       0.6019      5.28  |         |         |Q        |    V    |
  5+35       0.6277      3.74  |         |   Q     |         |     V   |
  5+40       0.6392      1.67  |     Q   |         |         |      V  |
```

```
    5+45       0.6453      0.88  |   Q       |          |          |         V|
    5+50       0.6492      0.56  |  Q        |          |          |         V|
    5+55       0.6518      0.39  |Q          |          |          |         V|
    6+ 0       0.6536      0.25  |Q          |          |          |         V|
    6+ 5       0.6543      0.11  Q           |          |          |         V|
    6+10       0.6544      0.02  Q           |          |          |         V|
    6+15       0.6545      0.00  Q           |          |          |          V
-------------------------------------------------------------------------------
```

```
       U n i t   H y d r o g r a p h   A n a l y s i s

       Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2008, Version 8.1
              Study date  03/01/22 File: pro5245.out

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------------------------------------------------------------------------------

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       8.33(Ac.)  =      0.013 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       8.33(Ac.)  =      0.013 Sq. Mi.
Length along longest watercourse =     997.00(Ft.)
Length along longest watercourse measured to centroid =     499.00(Ft.)
Length along longest watercourse =      0.189 Mi.
Length along longest watercourse measured to centroid =      0.095 Mi.
Difference in elevation =      15.80(Ft.)
Slope along watercourse =     83.6750 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time =    0.034 Hr.
Lag time =     2.02 Min.
25% of lag time =     0.50 Min.
40% of lag time =     0.81 Min.
Unit time =     5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            1.80                 14.99

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            4.50                 37.48

STORM EVENT (YEAR) =    5.00
Area Averaged 2-Year Rainfall =    1.800(In)
Area Averaged 100-Year Rainfall =    4.500(In)

Point rain (area averaged) =    2.432(In)
Areal adjustment factor =  100.00 %
Adjusted average point rain =    2.432(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     8.330           56.00          0.650
 Total Area Entered =      8.33(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-1     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
56.0  36.0      0.706     0.650        0.293       1.000      0.293
                                                 Sum (F) =   0.293
Area averaged mean soil loss (F) (In/Hr) =  0.293
Minimum soil loss rate ((In/Hr)) =  0.146
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.380
------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
    (hrs)                          Graph %           (CFS)
------------------------------------------------------------------------
```

1	0.083	247.873	50.617	4.249
2	0.167	495.746	40.186	3.374
3	0.250	743.618	7.090	0.595
4	0.333	991.491	2.107	0.177
			Sum = 100.000 Sum=	8.395

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.019	(0.519)	0.007	0.012
2	0.17	0.07	0.019	(0.517)	0.007	0.012
3	0.25	0.07	0.019	(0.515)	0.007	0.012
4	0.33	0.10	0.029	(0.513)	0.011	0.018
5	0.42	0.10	0.029	(0.511)	0.011	0.018
6	0.50	0.10	0.029	(0.509)	0.011	0.018
7	0.58	0.10	0.029	(0.507)	0.011	0.018
8	0.67	0.10	0.029	(0.505)	0.011	0.018
9	0.75	0.10	0.029	(0.503)	0.011	0.018
10	0.83	0.13	0.039	(0.501)	0.015	0.024
11	0.92	0.13	0.039	(0.499)	0.015	0.024
12	1.00	0.13	0.039	(0.498)	0.015	0.024
13	1.08	0.10	0.029	(0.496)	0.011	0.018
14	1.17	0.10	0.029	(0.494)	0.011	0.018
15	1.25	0.10	0.029	(0.492)	0.011	0.018
16	1.33	0.10	0.029	(0.490)	0.011	0.018
17	1.42	0.10	0.029	(0.488)	0.011	0.018
18	1.50	0.10	0.029	(0.486)	0.011	0.018
19	1.58	0.10	0.029	(0.484)	0.011	0.018
20	1.67	0.10	0.029	(0.482)	0.011	0.018
21	1.75	0.10	0.029	(0.480)	0.011	0.018
22	1.83	0.13	0.039	(0.478)	0.015	0.024
23	1.92	0.13	0.039	(0.476)	0.015	0.024
24	2.00	0.13	0.039	(0.474)	0.015	0.024
25	2.08	0.13	0.039	(0.472)	0.015	0.024
26	2.17	0.13	0.039	(0.470)	0.015	0.024
27	2.25	0.13	0.039	(0.468)	0.015	0.024
28	2.33	0.13	0.039	(0.467)	0.015	0.024
29	2.42	0.13	0.039	(0.465)	0.015	0.024
30	2.50	0.13	0.039	(0.463)	0.015	0.024
31	2.58	0.17	0.049	(0.461)	0.018	0.030
32	2.67	0.17	0.049	(0.459)	0.018	0.030
33	2.75	0.17	0.049	(0.457)	0.018	0.030
34	2.83	0.17	0.049	(0.455)	0.018	0.030
35	2.92	0.17	0.049	(0.453)	0.018	0.030
36	3.00	0.17	0.049	(0.451)	0.018	0.030
37	3.08	0.17	0.049	(0.450)	0.018	0.030
38	3.17	0.17	0.049	(0.448)	0.018	0.030
39	3.25	0.17	0.049	(0.446)	0.018	0.030
40	3.33	0.17	0.049	(0.444)	0.018	0.030
41	3.42	0.17	0.049	(0.442)	0.018	0.030
42	3.50	0.17	0.049	(0.440)	0.018	0.030
43	3.58	0.17	0.049	(0.438)	0.018	0.030
44	3.67	0.17	0.049	(0.437)	0.018	0.030
45	3.75	0.17	0.049	(0.435)	0.018	0.030
46	3.83	0.20	0.058	(0.433)	0.022	0.036
47	3.92	0.20	0.058	(0.431)	0.022	0.036
48	4.00	0.20	0.058	(0.429)	0.022	0.036
49	4.08	0.20	0.058	(0.427)	0.022	0.036
50	4.17	0.20	0.058	(0.426)	0.022	0.036
51	4.25	0.20	0.058	(0.424)	0.022	0.036
52	4.33	0.23	0.068	(0.422)	0.026	0.042
53	4.42	0.23	0.068	(0.420)	0.026	0.042
54	4.50	0.23	0.068	(0.418)	0.026	0.042
55	4.58	0.23	0.068	(0.417)	0.026	0.042
56	4.67	0.23	0.068	(0.415)	0.026	0.042
57	4.75	0.23	0.068	(0.413)	0.026	0.042
58	4.83	0.27	0.078	(0.411)	0.030	0.048
59	4.92	0.27	0.078	(0.409)	0.030	0.048
60	5.00	0.27	0.078	(0.408)	0.030	0.048
61	5.08	0.20	0.058	(0.406)	0.022	0.036
62	5.17	0.20	0.058	(0.404)	0.022	0.036
63	5.25	0.20	0.058	(0.402)	0.022	0.036
64	5.33	0.23	0.068	(0.401)	0.026	0.042
65	5.42	0.23	0.068	(0.399)	0.026	0.042
66	5.50	0.23	0.068	(0.397)	0.026	0.042
67	5.58	0.27	0.078	(0.395)	0.030	0.048
68	5.67	0.27	0.078	(0.394)	0.030	0.048
69	5.75	0.27	0.078	(0.392)	0.030	0.048
70	5.83	0.27	0.078	(0.390)	0.030	0.048
71	5.92	0.27	0.078	(0.388)	0.030	0.048
72	6.00	0.27	0.078	(0.387)	0.030	0.048
73	6.08	0.30	0.088	(0.385)	0.033	0.054
74	6.17	0.30	0.088	(0.383)	0.033	0.054

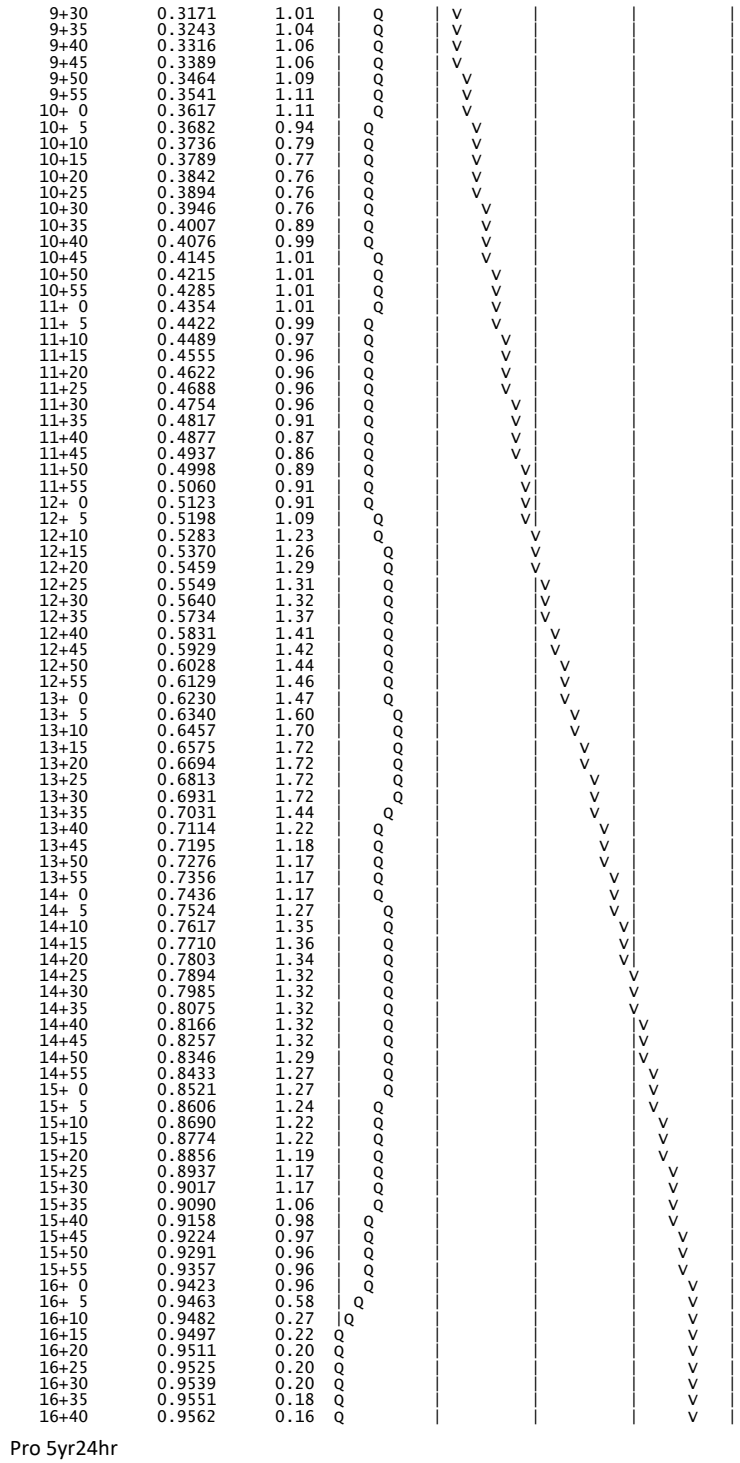
75	6.25	0.30	0.088	(0.382)	0.033	0.054
76	6.33	0.30	0.088	(0.380)	0.033	0.054
77	6.42	0.30	0.088	(0.378)	0.033	0.054
78	6.50	0.30	0.088	(0.377)	0.033	0.054
79	6.58	0.33	0.097	(0.375)	0.037	0.060
80	6.67	0.33	0.097	(0.373)	0.037	0.060
81	6.75	0.33	0.097	(0.371)	0.037	0.060
82	6.83	0.33	0.097	(0.370)	0.037	0.060
83	6.92	0.33	0.097	(0.368)	0.037	0.060
84	7.00	0.33	0.097	(0.366)	0.037	0.060
85	7.08	0.33	0.097	(0.365)	0.037	0.060
86	7.17	0.33	0.097	(0.363)	0.037	0.060
87	7.25	0.33	0.097	(0.361)	0.037	0.060
88	7.33	0.37	0.107	(0.360)	0.041	0.066
89	7.42	0.37	0.107	(0.358)	0.041	0.066
90	7.50	0.37	0.107	(0.356)	0.041	0.066
91	7.58	0.40	0.117	(0.355)	0.044	0.072
92	7.67	0.40	0.117	(0.353)	0.044	0.072
93	7.75	0.40	0.117	(0.352)	0.044	0.072
94	7.83	0.43	0.126	(0.350)	0.048	0.078
95	7.92	0.43	0.126	(0.348)	0.048	0.078
96	8.00	0.43	0.126	(0.347)	0.048	0.078
97	8.08	0.50	0.146	(0.345)	0.055	0.090
98	8.17	0.50	0.146	(0.344)	0.055	0.090
99	8.25	0.50	0.146	(0.342)	0.055	0.090
100	8.33	0.50	0.146	(0.340)	0.055	0.090
101	8.42	0.50	0.146	(0.339)	0.055	0.090
102	8.50	0.50	0.146	(0.337)	0.055	0.090
103	8.58	0.53	0.156	(0.336)	0.059	0.097
104	8.67	0.53	0.156	(0.334)	0.059	0.097
105	8.75	0.53	0.156	(0.332)	0.059	0.097
106	8.83	0.57	0.165	(0.331)	0.063	0.103
107	8.92	0.57	0.165	(0.329)	0.063	0.103
108	9.00	0.57	0.165	(0.328)	0.063	0.103
109	9.08	0.63	0.185	(0.326)	0.070	0.115
110	9.17	0.63	0.185	(0.325)	0.070	0.115
111	9.25	0.63	0.185	(0.323)	0.070	0.115
112	9.33	0.67	0.195	(0.322)	0.074	0.121
113	9.42	0.67	0.195	(0.320)	0.074	0.121
114	9.50	0.67	0.195	(0.318)	0.074	0.121
115	9.58	0.70	0.204	(0.317)	0.078	0.127
116	9.67	0.70	0.204	(0.315)	0.078	0.127
117	9.75	0.70	0.204	(0.314)	0.078	0.127
118	9.83	0.73	0.214	(0.312)	0.081	0.133
119	9.92	0.73	0.214	(0.311)	0.081	0.133
120	10.00	0.73	0.214	(0.309)	0.081	0.133
121	10.08	0.50	0.146	(0.308)	0.055	0.090
122	10.17	0.50	0.146	(0.306)	0.055	0.090
123	10.25	0.50	0.146	(0.305)	0.055	0.090
124	10.33	0.50	0.146	(0.303)	0.055	0.090
125	10.42	0.50	0.146	(0.302)	0.055	0.090
126	10.50	0.50	0.146	(0.300)	0.055	0.090
127	10.58	0.67	0.195	(0.299)	0.074	0.121
128	10.67	0.67	0.195	(0.298)	0.074	0.121
129	10.75	0.67	0.195	(0.296)	0.074	0.121
130	10.83	0.67	0.195	(0.295)	0.074	0.121
131	10.92	0.67	0.195	(0.293)	0.074	0.121
132	11.00	0.67	0.195	(0.292)	0.074	0.121
133	11.08	0.63	0.185	(0.290)	0.070	0.115
134	11.17	0.63	0.185	(0.289)	0.070	0.115
135	11.25	0.63	0.185	(0.287)	0.070	0.115
136	11.33	0.63	0.185	(0.286)	0.070	0.115
137	11.42	0.63	0.185	(0.285)	0.070	0.115
138	11.50	0.63	0.185	(0.283)	0.070	0.115
139	11.58	0.57	0.165	(0.282)	0.063	0.103
140	11.67	0.57	0.165	(0.280)	0.063	0.103
141	11.75	0.57	0.165	(0.279)	0.063	0.103
142	11.83	0.60	0.175	(0.278)	0.067	0.109
143	11.92	0.60	0.175	(0.276)	0.067	0.109
144	12.00	0.60	0.175	(0.275)	0.067	0.109
145	12.08	0.83	0.243	(0.273)	0.092	0.151
146	12.17	0.83	0.243	(0.272)	0.092	0.151
147	12.25	0.83	0.243	(0.271)	0.092	0.151
148	12.33	0.87	0.253	(0.269)	0.096	0.157
149	12.42	0.87	0.253	(0.268)	0.096	0.157
150	12.50	0.87	0.253	(0.267)	0.096	0.157
151	12.58	0.93	0.272	(0.265)	0.104	0.169
152	12.67	0.93	0.272	(0.264)	0.104	0.169
153	12.75	0.93	0.272	(0.263)	0.104	0.169
154	12.83	0.97	0.282	(0.261)	0.107	0.175
155	12.92	0.97	0.282	(0.260)	0.107	0.175
156	13.00	0.97	0.282	(0.259)	0.107	0.175
157	13.08	1.13	0.331	(0.257)	0.126	0.205
158	13.17	1.13	0.331	(0.256)	0.126	0.205
159	13.25	1.13	0.331	(0.255)	0.126	0.205
160	13.33	1.13	0.331	(0.254)	0.126	0.205
161	13.42	1.13	0.331	(0.252)	0.126	0.205

162	13.50	1.13	0.331	(0.251)	0.126	0.205
163	13.58	0.77	0.224	(0.250)	0.085	0.139
164	13.67	0.77	0.224	(0.248)	0.085	0.139
165	13.75	0.77	0.224	(0.247)	0.085	0.139
166	13.83	0.77	0.224	(0.246)	0.085	0.139
167	13.92	0.77	0.224	(0.245)	0.085	0.139
168	14.00	0.77	0.224	(0.243)	0.085	0.139
169	14.08	0.90	0.263	(0.242)	0.100	0.163
170	14.17	0.90	0.263	(0.241)	0.100	0.163
171	14.25	0.90	0.263	(0.240)	0.100	0.163
172	14.33	0.87	0.253	(0.238)	0.096	0.157
173	14.42	0.87	0.253	(0.237)	0.096	0.157
174	14.50	0.87	0.253	(0.236)	0.096	0.157
175	14.58	0.87	0.253	(0.235)	0.096	0.157
176	14.67	0.87	0.253	(0.234)	0.096	0.157
177	14.75	0.87	0.253	(0.232)	0.096	0.157
178	14.83	0.83	0.243	(0.231)	0.092	0.151
179	14.92	0.83	0.243	(0.230)	0.092	0.151
180	15.00	0.83	0.243	(0.229)	0.092	0.151
181	15.08	0.80	0.234	(0.228)	0.089	0.145
182	15.17	0.80	0.234	(0.226)	0.089	0.145
183	15.25	0.80	0.234	(0.225)	0.089	0.145
184	15.33	0.77	0.224	(0.224)	0.085	0.139
185	15.42	0.77	0.224	(0.223)	0.085	0.139
186	15.50	0.77	0.224	(0.222)	0.085	0.139
187	15.58	0.63	0.185	(0.221)	0.070	0.115
188	15.67	0.63	0.185	(0.220)	0.070	0.115
189	15.75	0.63	0.185	(0.218)	0.070	0.115
190	15.83	0.63	0.185	(0.217)	0.070	0.115
191	15.92	0.63	0.185	(0.216)	0.070	0.115
192	16.00	0.63	0.185	(0.215)	0.070	0.115
193	16.08	0.13	0.039	(0.214)	0.015	0.024
194	16.17	0.13	0.039	(0.213)	0.015	0.024
195	16.25	0.13	0.039	(0.212)	0.015	0.024
196	16.33	0.13	0.039	(0.211)	0.015	0.024
197	16.42	0.13	0.039	(0.210)	0.015	0.024
198	16.50	0.13	0.039	(0.209)	0.015	0.024
199	16.58	0.10	0.029	(0.208)	0.011	0.018
200	16.67	0.10	0.029	(0.207)	0.011	0.018
201	16.75	0.10	0.029	(0.205)	0.011	0.018
202	16.83	0.10	0.029	(0.204)	0.011	0.018
203	16.92	0.10	0.029	(0.203)	0.011	0.018
204	17.00	0.10	0.029	(0.202)	0.011	0.018
205	17.08	0.17	0.049	(0.201)	0.018	0.030
206	17.17	0.17	0.049	(0.200)	0.018	0.030
207	17.25	0.17	0.049	(0.199)	0.018	0.030
208	17.33	0.17	0.049	(0.198)	0.018	0.030
209	17.42	0.17	0.049	(0.197)	0.018	0.030
210	17.50	0.17	0.049	(0.196)	0.018	0.030
211	17.58	0.17	0.049	(0.195)	0.018	0.030
212	17.67	0.17	0.049	(0.194)	0.018	0.030
213	17.75	0.17	0.049	(0.193)	0.018	0.030
214	17.83	0.13	0.039	(0.192)	0.015	0.024
215	17.92	0.13	0.039	(0.192)	0.015	0.024
216	18.00	0.13	0.039	(0.191)	0.015	0.024
217	18.08	0.13	0.039	(0.190)	0.015	0.024
218	18.17	0.13	0.039	(0.189)	0.015	0.024
219	18.25	0.13	0.039	(0.188)	0.015	0.024
220	18.33	0.13	0.039	(0.187)	0.015	0.024
221	18.42	0.13	0.039	(0.186)	0.015	0.024
222	18.50	0.13	0.039	(0.185)	0.015	0.024
223	18.58	0.10	0.029	(0.184)	0.011	0.018
224	18.67	0.10	0.029	(0.183)	0.011	0.018
225	18.75	0.10	0.029	(0.182)	0.011	0.018
226	18.83	0.07	0.019	(0.182)	0.007	0.012
227	18.92	0.07	0.019	(0.181)	0.007	0.012
228	19.00	0.07	0.019	(0.180)	0.007	0.012
229	19.08	0.10	0.029	(0.179)	0.011	0.018
230	19.17	0.10	0.029	(0.178)	0.011	0.018
231	19.25	0.10	0.029	(0.177)	0.011	0.018
232	19.33	0.13	0.039	(0.176)	0.015	0.024
233	19.42	0.13	0.039	(0.176)	0.015	0.024
234	19.50	0.13	0.039	(0.175)	0.015	0.024
235	19.58	0.10	0.029	(0.174)	0.011	0.018
236	19.67	0.10	0.029	(0.173)	0.011	0.018
237	19.75	0.10	0.029	(0.172)	0.011	0.018
238	19.83	0.07	0.019	(0.172)	0.007	0.012
239	19.92	0.07	0.019	(0.171)	0.007	0.012
240	20.00	0.07	0.019	(0.170)	0.007	0.012
241	20.08	0.10	0.029	(0.169)	0.011	0.018
242	20.17	0.10	0.029	(0.169)	0.011	0.018
243	20.25	0.10	0.029	(0.168)	0.011	0.018
244	20.33	0.10	0.029	(0.167)	0.011	0.018
245	20.42	0.10	0.029	(0.166)	0.011	0.018
246	20.50	0.10	0.029	(0.166)	0.011	0.018
247	20.58	0.10	0.029	(0.165)	0.011	0.018
248	20.67	0.10	0.029	(0.164)	0.011	0.018

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249  20.75     0.10      0.029       (  0.164)       0.011        0.018
250  20.83     0.07      0.019       (  0.163)       0.007        0.012
251  20.92     0.07      0.019       (  0.162)       0.007        0.012
252  21.00     0.07      0.019       (  0.162)       0.007        0.012
253  21.08     0.10      0.029       (  0.161)       0.011        0.018
254  21.17     0.10      0.029       (  0.160)       0.011        0.018
255  21.25     0.10      0.029       (  0.160)       0.011        0.018
256  21.33     0.07      0.019       (  0.159)       0.007        0.012
257  21.42     0.07      0.019       (  0.159)       0.007        0.012
258  21.50     0.07      0.019       (  0.158)       0.007        0.012
259  21.58     0.10      0.029       (  0.157)       0.011        0.018
260  21.67     0.10      0.029       (  0.157)       0.011        0.018
261  21.75     0.10      0.029       (  0.156)       0.011        0.018
262  21.83     0.07      0.019       (  0.156)       0.007        0.012
263  21.92     0.07      0.019       (  0.155)       0.007        0.012
264  22.00     0.07      0.019       (  0.155)       0.007        0.012
265  22.08     0.10      0.029       (  0.154)       0.011        0.018
266  22.17     0.10      0.029       (  0.154)       0.011        0.018
267  22.25     0.10      0.029       (  0.153)       0.011        0.018
268  22.33     0.07      0.019       (  0.153)       0.007        0.012
269  22.42     0.07      0.019       (  0.152)       0.007        0.012
270  22.50     0.07      0.019       (  0.152)       0.007        0.012
271  22.58     0.07      0.019       (  0.151)       0.007        0.012
272  22.67     0.07      0.019       (  0.151)       0.007        0.012
273  22.75     0.07      0.019       (  0.151)       0.007        0.012
274  22.83     0.07      0.019       (  0.150)       0.007        0.012
275  22.92     0.07      0.019       (  0.150)       0.007        0.012
276  23.00     0.07      0.019       (  0.149)       0.007        0.012
277  23.08     0.07      0.019       (  0.149)       0.007        0.012
278  23.17     0.07      0.019       (  0.149)       0.007        0.012
279  23.25     0.07      0.019       (  0.148)       0.007        0.012
280  23.33     0.07      0.019       (  0.148)       0.007        0.012
281  23.42     0.07      0.019       (  0.148)       0.007        0.012
282  23.50     0.07      0.019       (  0.148)       0.007        0.012
283  23.58     0.07      0.019       (  0.147)       0.007        0.012
284  23.67     0.07      0.019       (  0.147)       0.007        0.012
285  23.75     0.07      0.019       (  0.147)       0.007        0.012
286  23.83     0.07      0.019       (  0.147)       0.007        0.012
287  23.92     0.07      0.019       (  0.147)       0.007        0.012
288  24.00     0.07      0.019       (  0.147)       0.007        0.012
               (Loss Rate Not Used)
    Sum =     100.0                                  Sum =    18.1
      Flood volume = Effective rainfall      1.51(In)
       times area       8.3(Ac.)/[(In)/(Ft.)] =       1.0(Ac.Ft)
      Total soil loss =      0.92(In)
      Total soil loss =     0.642(Ac.Ft)
      Total rainfall =      2.43(In)
      Flood volume =       45600.8 Cubic Feet
      Total soil loss =       27948.9 Cubic Feet
      ---------------------------------------------------------------------
       Peak flow rate of this hydrograph =      1.723(CFS)
      ---------------------------------------------------------------------
      +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                          24 - 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   5   Minute intervals ((CFS))

      ---------------------------------------------------------------------
 Time(h+m) Volume Ac.Ft   Q(CFS)  0        2.5       5.0       7.5      10.0
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   0+ 5       0.0004      0.05  Q          |         |         |         |
   0+10       0.0010      0.09  Q          |         |         |         |
   0+15       0.0017      0.10  Q          |         |         |         |
   0+20       0.0025      0.13  Q          |         |         |         |
   0+25       0.0036      0.15  Q          |         |         |         |
   0+30       0.0046      0.15  Q          |         |         |         |
   0+35       0.0056      0.15  Q          |         |         |         |
   0+40       0.0067      0.15  Q          |         |         |         |
   0+45       0.0077      0.15  Q          |         |         |         |
   0+50       0.0090      0.18  Q          |         |         |         |
   0+55       0.0103      0.20  Q          |         |         |         |
   1+ 0       0.0117      0.20  Q          |         |         |         |
   1+ 5       0.0129      0.18  Q          |         |         |         |
   1+10       0.0140      0.16  Q          |         |         |         |
   1+15       0.0151      0.15  Q          |         |         |         |
   1+20       0.0161      0.15  Q          |         |         |         |
   1+25       0.0172      0.15  Q          |         |         |         |
   1+30       0.0182      0.15  Q          |         |         |         |
   1+35       0.0193      0.15  Q          |         |         |         |
   1+40       0.0203      0.15  Q          |         |         |         |
   1+45       0.0213      0.15  Q          |         |         |         |
   1+50       0.0226      0.18  Q          |         |         |         |
   1+55       0.0239      0.20  Q          |         |         |         |
   2+ 0       0.0253      0.20  Q          |         |         |         |
   2+ 5       0.0267      0.20  QV         |         |         |         |
   2+10       0.0281      0.20  QV         |         |         |         |
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2+15      0.0295      0.20  QV        |         |         |         |
2+20      0.0309      0.20  QV        |         |         |         |
2+25      0.0323      0.20  QV        |         |         |         |
2+30      0.0337      0.20  QV        |         |         |         |
2+35      0.0353      0.23  QV        |         |         |         |
2+40      0.0370      0.25  QV        |         |         |         |
2+45      0.0387      0.25  |Q        |         |         |         |
2+50      0.0405      0.25  |Q        |         |         |         |
2+55      0.0422      0.25  |Q        |         |         |         |
3+ 0      0.0440      0.25  |Q        |         |         |         |
3+ 5      0.0457      0.25  |Q        |         |         |         |
3+10      0.0474      0.25  |Q        |         |         |         |
3+15      0.0492      0.25  |Q        |         |         |         |
3+20      0.0509      0.25  |Q        |         |         |         |
3+25      0.0527      0.25  |QV       |         |         |         |
3+30      0.0544      0.25  |QV       |         |         |         |
3+35      0.0562      0.25  |QV       |         |         |         |
3+40      0.0579      0.25  |QV       |         |         |         |
3+45      0.0597      0.25  |QV       |         |         |         |
3+50      0.0616      0.28  |QV       |         |         |         |
3+55      0.0636      0.30  |QV       |         |         |         |
4+ 0      0.0657      0.30  |QV       |         |         |         |
4+ 5      0.0678      0.30  |QV       |         |         |         |
4+10      0.0699      0.30  |QV       |         |         |         |
4+15      0.0720      0.30  |QV       |         |         |         |
4+20      0.0743      0.33  |QV       |         |         |         |
4+25      0.0767      0.35  |QV       |         |         |         |
4+30      0.0791      0.35  |Q V      |         |         |         |
4+35      0.0816      0.35  |Q V      |         |         |         |
4+40      0.0840      0.35  |Q V      |         |         |         |
4+45      0.0865      0.35  |Q V      |         |         |         |
4+50      0.0891      0.38  |Q V      |         |         |         |
4+55      0.0918      0.40  |Q V      |         |         |         |
5+ 0      0.0946      0.40  |Q V      |         |         |         |
5+ 5      0.0971      0.35  |Q V      |         |         |         |
5+10      0.0992      0.31  |Q V      |         |         |         |
5+15      0.1013      0.31  |Q V      |         |         |         |
5+20      0.1036      0.33  |Q V      |         |         |         |
5+25      0.1060      0.35  |Q  V     |         |         |         |
5+30      0.1084      0.35  |Q  V     |         |         |         |
5+35      0.1111      0.38  |Q  V     |         |         |         |
5+40      0.1138      0.40  |Q  V     |         |         |         |
5+45      0.1166      0.40  |Q  V     |         |         |         |
5+50      0.1194      0.41  |Q  V     |         |         |         |
5+55      0.1222      0.41  |Q  V     |         |         |         |
6+ 0      0.1250      0.41  |Q  V     |         |         |         |
6+ 5      0.1279      0.43  |Q  V     |         |         |         |
6+10      0.1311      0.45  |Q   V    |         |         |         |
6+15      0.1342      0.45  |Q   V    |         |         |         |
6+20      0.1373      0.46  |Q   V    |         |         |         |
6+25      0.1405      0.46  |Q   V    |         |         |         |
6+30      0.1436      0.46  |Q   V    |         |         |         |
6+35      0.1469      0.48  |Q   V    |         |         |         |
6+40      0.1504      0.50  | Q  V    |         |         |         |
6+45      0.1539      0.51  | Q  V    |         |         |         |
6+50      0.1574      0.51  | Q   V   |         |         |         |
6+55      0.1608      0.51  | Q   V   |         |         |         |
7+ 0      0.1643      0.51  | Q   V   |         |         |         |
7+ 5      0.1678      0.51  | Q   V   |         |         |         |
7+10      0.1713      0.51  | Q   V   |         |         |         |
7+15      0.1748      0.51  | Q   V   |         |         |         |
7+20      0.1785      0.53  | Q   V   |         |         |         |
7+25      0.1823      0.55  | Q   V   |         |         |         |
7+30      0.1861      0.56  | Q    V  |         |         |         |
7+35      0.1901      0.58  | Q    V  |         |         |         |
7+40      0.1943      0.60  | Q    V  |         |         |         |
7+45      0.1985      0.61  | Q    V  |         |         |         |
7+50      0.2028      0.63  | Q    V  |         |         |         |
7+55      0.2073      0.65  | Q    V  |         |         |         |
8+ 0      0.2119      0.66  | Q     V |         |         |         |
8+ 5      0.2167      0.71  | Q     V |         |         |         |
8+10      0.2219      0.75  |  Q    V |         |         |         |
8+15      0.2271      0.76  |  Q    V |         |         |         |
8+20      0.2324      0.76  |  Q    V |         |         |         |
8+25      0.2376      0.76  |  Q     V|         |         |         |
8+30      0.2428      0.76  |  Q     V|         |         |         |
8+35      0.2482      0.79  |  Q     V|         |         |         |
8+40      0.2538      0.81  |  Q     V|         |         |         |
8+45      0.2594      0.81  |  Q     V|         |         |         |
8+50      0.2651      0.84  |  Q      V         |         |         |
8+55      0.2710      0.86  |  Q      V         |         |         |
9+ 0      0.2770      0.86  |  Q      V         |         |         |
9+ 5      0.2832      0.91  |  Q      V         |         |         |
9+10      0.2898      0.95  |  Q       |V       |         |         |
9+15      0.2964      0.96  |  Q       |V       |         |         |
9+20      0.3032      0.99  |  Q       |V       |         |         |
9+25      0.3102      1.01  |   Q      |V       |         |         |
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9+30	0.3171	1.01	Q	V			
9+35	0.3243	1.04	Q	V			
9+40	0.3316	1.06	Q	V			
9+45	0.3389	1.06	Q	V			
9+50	0.3464	1.09	Q	V			
9+55	0.3541	1.11	Q	V			
10+ 0	0.3617	1.11	Q	V			
10+ 5	0.3682	0.94	Q	V			
10+10	0.3736	0.79	Q	V			
10+15	0.3789	0.77	Q	V			
10+20	0.3842	0.76	Q	V			
10+25	0.3894	0.76	Q	V			
10+30	0.3946	0.76	Q	V			
10+35	0.4007	0.89	Q	V			
10+40	0.4076	0.99	Q	V			
10+45	0.4145	1.01	Q	V			
10+50	0.4215	1.01	Q	V			
10+55	0.4285	1.01	Q	V			
11+ 0	0.4354	1.01	Q	V			
11+ 5	0.4422	0.99	Q	V			
11+10	0.4489	0.97	Q	V			
11+15	0.4555	0.96	Q	V			
11+20	0.4622	0.96	Q	V			
11+25	0.4688	0.96	Q	V			
11+30	0.4754	0.96	Q	V			
11+35	0.4817	0.91	Q	V			
11+40	0.4877	0.87	Q	V			
11+45	0.4937	0.86	Q	V			
11+50	0.4998	0.89	Q	V			
11+55	0.5060	0.91	Q	V			
12+ 0	0.5123	0.91	Q	V			
12+ 5	0.5198	1.09	Q	V			
12+10	0.5283	1.23	Q	V			
12+15	0.5370	1.26	Q	V			
12+20	0.5459	1.29	Q	V			
12+25	0.5549	1.31	Q	V			
12+30	0.5640	1.32	Q	V			
12+35	0.5734	1.37	Q	V			
12+40	0.5831	1.41	Q	V			
12+45	0.5929	1.42	Q	V			
12+50	0.6028	1.44	Q	V			
12+55	0.6129	1.46	Q	V			
13+ 0	0.6230	1.47	Q	V			
13+ 5	0.6340	1.60	Q	V			
13+10	0.6457	1.70	Q	V			
13+15	0.6575	1.72	Q	V			
13+20	0.6694	1.72	Q	V			
13+25	0.6813	1.72	Q	V			
13+30	0.6931	1.72	Q	V			
13+35	0.7031	1.44	Q	V			
13+40	0.7114	1.22	Q	V			
13+45	0.7195	1.18	Q	V			
13+50	0.7276	1.17	Q	V			
13+55	0.7356	1.17	Q	V			
14+ 0	0.7436	1.17	Q	V			
14+ 5	0.7524	1.27	Q	V			
14+10	0.7617	1.35	Q	V			
14+15	0.7710	1.36	Q	V			
14+20	0.7803	1.34	Q	V			
14+25	0.7894	1.32	Q	V			
14+30	0.7985	1.32	Q	V			
14+35	0.8075	1.32	Q	V			
14+40	0.8166	1.32	Q	V			
14+45	0.8257	1.32	Q	V			
14+50	0.8346	1.29	Q	V			
14+55	0.8433	1.27	Q	V			
15+ 0	0.8521	1.27	Q	V			
15+ 5	0.8606	1.24	Q	V			
15+10	0.8690	1.22	Q	V			
15+15	0.8774	1.22	Q	V			
15+20	0.8856	1.19	Q	V			
15+25	0.8937	1.17	Q	V			
15+30	0.9017	1.17	Q	V			
15+35	0.9090	1.06	Q	V			
15+40	0.9158	0.98	Q	V			
15+45	0.9224	0.97	Q	V			
15+50	0.9291	0.96	Q	V			
15+55	0.9357	0.96	Q	V			
16+ 0	0.9423	0.96	Q	V			
16+ 5	0.9463	0.58	Q	V			
16+10	0.9482	0.27	Q	V			
16+15	0.9497	0.22	Q	V			
16+20	0.9511	0.20	Q	V			
16+25	0.9525	0.20	Q	V			
16+30	0.9539	0.20	Q	V			
16+35	0.9551	0.18	Q	V			
16+40	0.9562	0.16	Q	V			

16+45	0.9572	0.15	Q	|	|	|	V |
16+50	0.9583	0.15	Q	|	|	|	V |
16+55	0.9593	0.15	Q	|	|	|	V |
17+ 0	0.9604	0.15	Q	|	|	|	V |
17+ 5	0.9618	0.20	Q	|	|	|	V |
17+10	0.9635	0.24	Q	|	|	|	V |
17+15	0.9652	0.25	|Q	|	|	|	V |
17+20	0.9669	0.25	|Q	|	|	|	V |
17+25	0.9687	0.25	|Q	|	|	|	V |
17+30	0.9704	0.25	|Q	|	|	|	V |
17+35	0.9722	0.25	|Q	|	|	|	V |
17+40	0.9739	0.25	|Q	|	|	|	V |
17+45	0.9757	0.25	|Q	|	|	|	V |
17+50	0.9772	0.23	Q	|	|	|	V |
17+55	0.9786	0.21	Q	|	|	|	V |
18+ 0	0.9801	0.20	Q	|	|	|	V |
18+ 5	0.9814	0.20	Q	|	|	|	V |
18+10	0.9828	0.20	Q	|	|	|	V |
18+15	0.9842	0.20	Q	|	|	|	V |
18+20	0.9856	0.20	Q	|	|	|	V |
18+25	0.9870	0.20	Q	|	|	|	V |
18+30	0.9884	0.20	Q	|	|	|	V |
18+35	0.9896	0.18	Q	|	|	|	V |
18+40	0.9907	0.16	Q	|	|	|	V |
18+45	0.9918	0.15	Q	|	|	|	V |
18+50	0.9926	0.13	Q	|	|	|	V |
18+55	0.9934	0.11	Q	|	|	|	V |
19+ 0	0.9941	0.10	Q	|	|	|	V |
19+ 5	0.9950	0.13	Q	|	|	|	V |
19+10	0.9960	0.15	Q	|	|	|	V |
19+15	0.9970	0.15	Q	|	|	|	V |
19+20	0.9982	0.18	Q	|	|	|	V |
19+25	0.9996	0.20	Q	|	|	|	V |
19+30	1.0010	0.20	Q	|	|	|	V |
19+35	1.0022	0.18	Q	|	|	|	V |
19+40	1.0033	0.16	Q	|	|	|	V |
19+45	1.0043	0.15	Q	|	|	|	V |
19+50	1.0052	0.13	Q	|	|	|	V |
19+55	1.0059	0.11	Q	|	|	|	V |
20+ 0	1.0066	0.10	Q	|	|	|	V |
20+ 5	1.0075	0.13	Q	|	|	|	V |
20+10	1.0085	0.15	Q	|	|	|	V |
20+15	1.0096	0.15	Q	|	|	|	V |
20+20	1.0106	0.15	Q	|	|	|	V |
20+25	1.0117	0.15	Q	|	|	|	V |
20+30	1.0127	0.15	Q	|	|	|	V |
20+35	1.0138	0.15	Q	|	|	|	V |
20+40	1.0148	0.15	Q	|	|	|	V |
20+45	1.0159	0.15	Q	|	|	|	V |
20+50	1.0167	0.13	Q	|	|	|	V |
20+55	1.0175	0.11	Q	|	|	|	V |
21+ 0	1.0182	0.10	Q	|	|	|	V |
21+ 5	1.0190	0.13	Q	|	|	|	V |
21+10	1.0201	0.15	Q	|	|	|	V |
21+15	1.0211	0.15	Q	|	|	|	V|
21+20	1.0220	0.13	Q	|	|	|	V|
21+25	1.0227	0.11	Q	|	|	|	V|
21+30	1.0234	0.10	Q	|	|	|	V|
21+35	1.0243	0.13	Q	|	|	|	V|
21+40	1.0253	0.15	Q	|	|	|	V|
21+45	1.0263	0.15	Q	|	|	|	V|
21+50	1.0272	0.13	Q	|	|	|	V|
21+55	1.0279	0.11	Q	|	|	|	V|
22+ 0	1.0286	0.10	Q	|	|	|	V|
22+ 5	1.0295	0.13	Q	|	|	|	V|
22+10	1.0305	0.15	Q	|	|	|	V|
22+15	1.0316	0.15	Q	|	|	|	V|
22+20	1.0324	0.13	Q	|	|	|	V|
22+25	1.0332	0.11	Q	|	|	|	V|
22+30	1.0339	0.10	Q	|	|	|	V|
22+35	1.0346	0.10	Q	|	|	|	V|
22+40	1.0353	0.10	Q	|	|	|	V|
22+45	1.0360	0.10	Q	|	|	|	V|
22+50	1.0367	0.10	Q	|	|	|	V|
22+55	1.0374	0.10	Q	|	|	|	V|
23+ 0	1.0381	0.10	Q	|	|	|	V|
23+ 5	1.0387	0.10	Q	|	|	|	V|
23+10	1.0394	0.10	Q	|	|	|	V|
23+15	1.0401	0.10	Q	|	|	|	V|
23+20	1.0408	0.10	Q	|	|	|	V|
23+25	1.0415	0.10	Q	|	|	|	V|
23+30	1.0422	0.10	Q	|	|	|	V|
23+35	1.0429	0.10	Q	|	|	|	V|
23+40	1.0436	0.10	Q	|	|	|	V|
23+45	1.0443	0.10	Q	|	|	|	V|
23+50	1.0450	0.10	Q	|	|	|	V|
23+55	1.0457	0.10	Q	|	|	|	V|

```
   24+ 0       1.0464      0.10  Q          |          |          |        V|
   24+ 5       1.0468      0.05  Q          |          |          |        V|
   24+10       1.0468      0.01  Q          |          |          |        V|
   24+15       1.0468      0.00  Q          |          |          |        V|
-------------------------------------------------------------------------
```

```
       U n i t   H y d r o g r a p h   A n a l y s i s

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       8.33(Ac.)  =      0.013 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       8.33(Ac.)  =      0.013 Sq. Mi.
Length along longest watercourse =     997.00(Ft.)
Length along longest watercourse measured to centroid =     499.00(Ft.)
Length along longest watercourse =      0.189 Mi.
Length along longest watercourse measured to centroid =      0.095 Mi.
Difference in elevation =      15.80(Ft.)
Slope along watercourse =     83.6750 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time =    0.034 Hr.
Lag time =     2.02 Min.
25% of lag time =     0.50 Min.
40% of lag time =     0.81 Min.
Unit time =     5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            0.50                 4.17

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            1.20                10.00

STORM EVENT (YEAR) =   10.00
Area Averaged 2-Year Rainfall =    0.500(In)
Area Averaged 100-Year Rainfall =    1.200(In)

Point rain (area averaged) =    0.788(In)
Areal adjustment factor =   99.99 %
Adjusted average point rain =    0.788(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     8.330           56.00          0.650
 Total Area Entered =      8.33(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-2     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
56.0  56.0      0.511     0.650        0.212       1.000      0.212
                                                 Sum (F) =   0.212
Area averaged mean soil loss (F) (In/Hr) =  0.212
Minimum soil loss rate ((In/Hr)) =  0.106
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.380
------------------------------------------------------------------------
Slope of intensity-duration curve for a 1 hour storm =0.5000
------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
------------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
```

```
        (hrs)                          Graph %            (CFS)
      ------------------------------------------------------------------------
         1   0.083        247.873         50.617              4.249
         2   0.167        495.746         40.186              3.374
         3   0.250        743.618          7.090              0.595
         4   0.333        991.491          2.107              0.177
                                  Sum = 100.000   Sum=        8.395
------------------------------------------------------------------------------


 The following loss rate calculations reflect use of the minimum calculated loss
 rate subtracted from the Storm Rain to produce the maximum Effective Rain value

  Unit Time   Pattern   Storm Rain     Loss rate(In./Hr)     Effective
       (Hr.)  Percent   (In/Hr)         Max    |   Low        (In/Hr)
    1   0.08     4.20      0.397       (  0.212)       0.151        0.246
    2   0.17     4.30      0.407       (  0.212)       0.154        0.252
    3   0.25     5.00      0.473       (  0.212)       0.180        0.293
    4   0.33     5.00      0.473       (  0.212)       0.180        0.293
    5   0.42     5.80      0.548       (  0.212)       0.208        0.340
    6   0.50     6.50      0.615          0.212    (  0.234)        0.403
    7   0.58     7.40      0.700          0.212    (  0.266)        0.488
    8   0.67     8.60      0.813          0.212    (  0.309)        0.601
    9   0.75    12.30      1.163          0.212    (  0.442)        0.951
   10   0.83    29.10      2.751          0.212    (  1.046)        2.539
   11   0.92     6.80      0.643          0.212    (  0.244)        0.431
   12   1.00     5.00      0.473       (  0.212)       0.180        0.293
             (Loss Rate Not Used)
     Sum =     100.0                                  Sum =     7.1
       Flood volume = Effective rainfall      0.59(In)
        times area       8.3(Ac.)/[(In)/(Ft.)] =       0.4(Ac.Ft)
       Total soil loss =      0.19(In)
       Total soil loss =     0.134(Ac.Ft)
       Total rainfall =      0.79(In)
       Flood volume =       17967.6 Cubic Feet
       Total soil loss =        5857.6 Cubic Feet
       ---------------------------------------------------------------------
        Peak flow rate of this hydrograph =     14.451(CFS)
       ---------------------------------------------------------------------
       +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                          1 - 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   5   Minute intervals ((CFS))

       ---------------------------------------------------------------------
  Time(h+m) Volume Ac.Ft   Q(CFS)  0         5.0       10.0      15.0      20.0
  ---------------------------------------------------------------------------
    0+ 5       0.0072      1.05  V Q        |         |         |         |
    0+10       0.0203      1.90  |V Q       |         |         |         |
    0+15       0.0358      2.24  |  VQ      |         |         |         |
    0+20       0.0525      2.43  |   QV     |         |         |         |
    0+25       0.0708      2.65  |    QV    |         |         |         |
    0+30       0.0920      3.09  |     Q V  |         |         |         |
    0+35       0.1174      3.69  |      Q   |V        |         |         |
    0+40       0.1484      4.50  |        Q |   V     |         |         |
    0+45       0.1927      6.43  |          | Q     V |         |         |
    0+50       0.2923     14.45  |          |         |       Q |         |
    0+55       0.3685     11.08  |          |         | Q       |    V    |
    1+ 0       0.3987      4.38  |        Q |         |         |      V  |
    1+ 5       0.4104      1.70  |  Q       |         |         |         V|
    1+10       0.4121      0.25  Q          |         |         |         V|
    1+15       0.4125      0.05  Q          |         |         |         V|
  ---------------------------------------------------------------------------
```

```
       U n i t   H y d r o g r a p h   A n a l y s i s

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              Study date  03/01/22 File: pro10310.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       8.33(Ac.)  =      0.013 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       8.33(Ac.)  =      0.013 Sq. Mi.
Length along longest watercourse =     997.00(Ft.)
Length along longest watercourse measured to centroid =     499.00(Ft.)
Length along longest watercourse =      0.189 Mi.
Length along longest watercourse measured to centroid =      0.095 Mi.
Difference in elevation =      15.80(Ft.)
Slope along watercourse =     83.6750 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time =    0.034 Hr.
Lag time =     2.02 Min.
25% of lag time =     0.50 Min.
40% of lag time =     0.81 Min.
Unit time =     5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            0.80                 6.66

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            1.90                15.83

STORM EVENT (YEAR) =   10.00
Area Averaged 2-Year Rainfall =    0.800(In)
Area Averaged 100-Year Rainfall =    1.900(In)

Point rain (area averaged) =    1.253(In)
Areal adjustment factor =  100.00 %
Adjusted average point rain =    1.253(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     8.330           56.00          0.650
 Total Area Entered =      8.33(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-2     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
56.0  56.0      0.511     0.650        0.212       1.000      0.212
                                                 Sum (F) =   0.212
Area averaged mean soil loss (F) (In/Hr) =  0.212
Minimum soil loss rate ((In/Hr)) =  0.106
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.380
------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
------------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
    (hrs)                           Graph %           (CFS)
------------------------------------------------------------------------
```

1	0.083	247.873	50.617	4.249
2	0.167	495.746	40.186	3.374
3	0.250	743.618	7.090	0.595
4	0.333	991.491	2.107	0.177
		Sum = 100.000	Sum=	8.395

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	1.30	0.195	(0.212)	0.074	0.121
2	0.17	1.30	0.195	(0.212)	0.074	0.121
3	0.25	1.10	0.165	(0.212)	0.063	0.103
4	0.33	1.50	0.225	(0.212)	0.086	0.140
5	0.42	1.50	0.225	(0.212)	0.086	0.140
6	0.50	1.80	0.271	(0.212)	0.103	0.168
7	0.58	1.50	0.225	(0.212)	0.086	0.140
8	0.67	1.80	0.271	(0.212)	0.103	0.168
9	0.75	1.80	0.271	(0.212)	0.103	0.168
10	0.83	1.50	0.225	(0.212)	0.086	0.140
11	0.92	1.60	0.240	(0.212)	0.091	0.149
12	1.00	1.80	0.271	(0.212)	0.103	0.168
13	1.08	2.20	0.331	(0.212)	0.126	0.205
14	1.17	2.20	0.331	(0.212)	0.126	0.205
15	1.25	2.20	0.331	(0.212)	0.126	0.205
16	1.33	2.00	0.301	(0.212)	0.114	0.186
17	1.42	2.60	0.391	(0.212)	0.148	0.242
18	1.50	2.70	0.406	(0.212)	0.154	0.252
19	1.58	2.40	0.361	(0.212)	0.137	0.224
20	1.67	2.70	0.406	(0.212)	0.154	0.252
21	1.75	3.30	0.496	(0.212)	0.188	0.308
22	1.83	3.10	0.466	(0.212)	0.177	0.289
23	1.92	2.90	0.436	(0.212)	0.166	0.270
24	2.00	3.00	0.451	(0.212)	0.171	0.280
25	2.08	3.10	0.466	(0.212)	0.177	0.289
26	2.17	4.20	0.631	0.212	(0.240)	0.419
27	2.25	5.00	0.752	0.212	(0.286)	0.540
28	2.33	3.50	0.526	(0.212)	0.200	0.326
29	2.42	6.80	1.022	0.212	(0.388)	0.810
30	2.50	7.30	1.097	0.212	(0.417)	0.885
31	2.58	8.20	1.232	0.212	(0.468)	1.020
32	2.67	5.90	0.887	0.212	(0.337)	0.675
33	2.75	2.00	0.301	(0.212)	0.114	0.186
34	2.83	1.80	0.271	(0.212)	0.103	0.168
35	2.92	1.80	0.271	(0.212)	0.103	0.168
36	3.00	0.60	0.090	(0.212)	0.034	0.056
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	10.2

Flood volume = Effective rainfall 0.85(In)
times area 8.3(Ac.)/[(In)/(Ft.)] = 0.6(Ac.Ft)
Total soil loss = 0.40(In)
Total soil loss = 0.280(Ac.Ft)
Total rainfall = 1.25(In)
Flood volume = 25658.9 Cubic Feet
Total soil loss = 12214.2 Cubic Feet

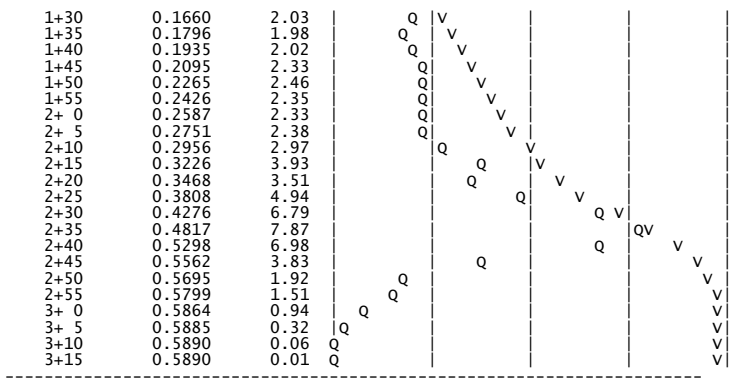
Peak flow rate of this hydrograph = 7.867(CFS)

---

3 - 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 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0035	0.52	V Q				
0+10	0.0099	0.92	V Q				
0+15	0.0162	0.92	V Q				
0+20	0.0233	1.03	V Q				
0+25	0.0313	1.15	V Q				
0+30	0.0401	1.29	V Q				
0+35	0.0488	1.27	V Q				
0+40	0.0579	1.31	V Q				
0+45	0.0675	1.39	VQ				
0+50	0.0763	1.29	Q				
0+55	0.0848	1.24	QV				
1+ 0	0.0940	1.33	QV				
1+ 5	0.1047	1.55	QV				
1+10	0.1163	1.69	QV				
1+15	0.1281	1.72	Q V				
1+20	0.1394	1.64	Q V				
1+25	0.1519	1.82	Q V				


1+30 0.1660 2.03
1+35 0.1796 1.98
1+40 0.1935 2.02
1+45 0.2095 2.33
1+50 0.2265 2.46
1+55 0.2426 2.35
2+ 0 0.2587 2.33
2+ 5 0.2751 2.38
2+10 0.2956 2.97
2+15 0.3226 3.93
2+20 0.3468 3.51
2+25 0.3808 4.94
2+30 0.4276 6.79
2+35 0.4817 7.87
2+40 0.5298 6.98
2+45 0.5562 3.83
2+50 0.5695 1.92
2+55 0.5799 1.51
3+ 0 0.5864 0.94
3+ 5 0.5885 0.32
3+10 0.5890 0.06
3+15 0.5890 0.01

```
       U n i t   H y d r o g r a p h   A n a l y s i s

       Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2008, Version 8.1
              Study date  03/01/22 File: pro10610.out

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------------------------------------------------------------------------------

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       8.33(Ac.)  =      0.013 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       8.33(Ac.)  =      0.013 Sq. Mi.
Length along longest watercourse =     997.00(Ft.)
Length along longest watercourse measured to centroid =     499.00(Ft.)
Length along longest watercourse =      0.189 Mi.
Length along longest watercourse measured to centroid =      0.095 Mi.
Difference in elevation =      15.80(Ft.)
Slope along watercourse =     83.6750 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time =    0.034 Hr.
Lag time =     2.02 Min.
25% of lag time =     0.50 Min.
40% of lag time =     0.81 Min.
Unit time =     5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            1.20                 10.00

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            2.50                 20.82

STORM EVENT (YEAR) =   10.00
Area Averaged 2-Year Rainfall =    1.200(In)
Area Averaged 100-Year Rainfall =    2.500(In)

Point rain (area averaged) =    1.735(In)
Areal adjustment factor =  100.00 %
Adjusted average point rain =    1.735(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     8.330           56.00          0.650
 Total Area Entered =      8.33(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-2     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
56.0  56.0      0.511     0.650        0.212       1.000      0.212
                                                 Sum (F) =   0.212
Area averaged mean soil loss (F) (In/Hr) =  0.212
Minimum soil loss rate ((In/Hr)) =  0.106
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.380
------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
------------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
    (hrs)                          Graph %           (CFS)
------------------------------------------------------------------------
```

1	0.083	247.873	50.617	4.249
2	0.167	495.746	40.186	3.374
3	0.250	743.618	7.090	0.595
4	0.333	991.491	2.107	0.177
			Sum = 100.000 Sum=	8.395

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.104	(0.212)	0.040	0.065
2	0.17	0.60	0.125	(0.212)	0.047	0.077
3	0.25	0.60	0.125	(0.212)	0.047	0.077
4	0.33	0.60	0.125	(0.212)	0.047	0.077
5	0.42	0.60	0.125	(0.212)	0.047	0.077
6	0.50	0.70	0.146	(0.212)	0.055	0.090
7	0.58	0.70	0.146	(0.212)	0.055	0.090
8	0.67	0.70	0.146	(0.212)	0.055	0.090
9	0.75	0.70	0.146	(0.212)	0.055	0.090
10	0.83	0.70	0.146	(0.212)	0.055	0.090
11	0.92	0.70	0.146	(0.212)	0.055	0.090
12	1.00	0.80	0.167	(0.212)	0.063	0.103
13	1.08	0.80	0.167	(0.212)	0.063	0.103
14	1.17	0.80	0.167	(0.212)	0.063	0.103
15	1.25	0.80	0.167	(0.212)	0.063	0.103
16	1.33	0.80	0.167	(0.212)	0.063	0.103
17	1.42	0.80	0.167	(0.212)	0.063	0.103
18	1.50	0.80	0.167	(0.212)	0.063	0.103
19	1.58	0.80	0.167	(0.212)	0.063	0.103
20	1.67	0.80	0.167	(0.212)	0.063	0.103
21	1.75	0.80	0.167	(0.212)	0.063	0.103
22	1.83	0.80	0.167	(0.212)	0.063	0.103
23	1.92	0.80	0.167	(0.212)	0.063	0.103
24	2.00	0.90	0.187	(0.212)	0.071	0.116
25	2.08	0.80	0.167	(0.212)	0.063	0.103
26	2.17	0.90	0.187	(0.212)	0.071	0.116
27	2.25	0.90	0.187	(0.212)	0.071	0.116
28	2.33	0.90	0.187	(0.212)	0.071	0.116
29	2.42	0.90	0.187	(0.212)	0.071	0.116
30	2.50	0.90	0.187	(0.212)	0.071	0.116
31	2.58	0.90	0.187	(0.212)	0.071	0.116
32	2.67	0.90	0.187	(0.212)	0.071	0.116
33	2.75	1.00	0.208	(0.212)	0.079	0.129
34	2.83	1.00	0.208	(0.212)	0.079	0.129
35	2.92	1.00	0.208	(0.212)	0.079	0.129
36	3.00	1.00	0.208	(0.212)	0.079	0.129
37	3.08	1.00	0.208	(0.212)	0.079	0.129
38	3.17	1.10	0.229	(0.212)	0.087	0.142
39	3.25	1.10	0.229	(0.212)	0.087	0.142
40	3.33	1.10	0.229	(0.212)	0.087	0.142
41	3.42	1.20	0.250	(0.212)	0.095	0.155
42	3.50	1.30	0.271	(0.212)	0.103	0.168
43	3.58	1.40	0.291	(0.212)	0.111	0.181
44	3.67	1.40	0.291	(0.212)	0.111	0.181
45	3.75	1.50	0.312	(0.212)	0.119	0.194
46	3.83	1.50	0.312	(0.212)	0.119	0.194
47	3.92	1.60	0.333	(0.212)	0.127	0.207
48	4.00	1.60	0.333	(0.212)	0.127	0.207
49	4.08	1.70	0.354	(0.212)	0.134	0.219
50	4.17	1.80	0.375	(0.212)	0.142	0.232
51	4.25	1.90	0.396	(0.212)	0.150	0.245
52	4.33	2.00	0.416	(0.212)	0.158	0.258
53	4.42	2.10	0.437	(0.212)	0.166	0.271
54	4.50	2.10	0.437	(0.212)	0.166	0.271
55	4.58	2.20	0.458	(0.212)	0.174	0.284
56	4.67	2.30	0.479	(0.212)	0.182	0.297
57	4.75	2.40	0.500	(0.212)	0.190	0.310
58	4.83	2.40	0.500	(0.212)	0.190	0.310
59	4.92	2.50	0.520	(0.212)	0.198	0.323
60	5.00	2.60	0.541	(0.212)	0.206	0.336
61	5.08	3.10	0.645	0.212	(0.245)	0.433
62	5.17	3.60	0.749	0.212	(0.285)	0.537
63	5.25	3.90	0.812	0.212	(0.309)	0.600
64	5.33	4.20	0.874	0.212	(0.332)	0.662
65	5.42	4.70	0.978	0.212	(0.372)	0.766
66	5.50	5.60	1.166	0.212	(0.443)	0.954
67	5.58	1.90	0.396	(0.212)	0.150	0.245
68	5.67	0.90	0.187	(0.212)	0.071	0.116
69	5.75	0.60	0.125	(0.212)	0.047	0.077
70	5.83	0.50	0.104	(0.212)	0.040	0.065
71	5.92	0.30	0.062	(0.212)	0.024	0.039
72	6.00	0.20	0.042	(0.212)	0.016	0.026
		(Loss Rate Not Used)				
	Sum =	100.0			Sum =	13.6

```
Flood volume = Effective rainfall      1.14(In)
 times area       8.3(Ac.)/[(In)/(Ft.)] =       0.8(Ac.Ft)
Total soil loss =      0.60(In)
Total soil loss =     0.416(Ac.Ft)
Total rainfall =      1.73(In)
Flood volume =       34321.1 Cubic Feet
Total soil loss =       18135.0 Cubic Feet
--------------------------------------------------------------------------
 Peak flow rate of this hydrograph =      7.143(CFS)
--------------------------------------------------------------------------
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                      6 - 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   5   Minute intervals ((CFS))

--------------------------------------------------------------------------
Time(h+m) Volume Ac.Ft   Q(CFS)  0        2.5       5.0       7.5      10.0
--------------------------------------------------------------------------
  0+ 5       0.0019      0.27  VQ        |         |         |         |
  0+10       0.0057      0.55  V Q       |         |         |         |
  0+15       0.0100      0.63  V Q       |         |         |         |
  0+20       0.0145      0.65  V Q       |         |         |         |
  0+25       0.0189      0.65  V Q       |         |         |         |
  0+30       0.0238      0.71  |VQ       |         |         |         |
  0+35       0.0289      0.75  |VQ       |         |         |         |
  0+40       0.0342      0.76  |V Q      |         |         |         |
  0+45       0.0394      0.76  |V Q      |         |         |         |
  0+50       0.0446      0.76  | VQ      |         |         |         |
  0+55       0.0498      0.76  | VQ      |         |         |         |
  1+ 0       0.0554      0.81  | VQ      |         |         |         |
  1+ 5       0.0613      0.86  |  Q      |         |         |         |
  1+10       0.0673      0.86  |  Q      |         |         |         |
  1+15       0.0733      0.87  |  Q      |         |         |         |
  1+20       0.0793      0.87  |  QV     |         |         |         |
  1+25       0.0852      0.87  |  QV     |         |         |         |
  1+30       0.0912      0.87  |  QV     |         |         |         |
  1+35       0.0972      0.87  |  QV     |         |         |         |
  1+40       0.1031      0.87  |  Q V    |         |         |         |
  1+45       0.1091      0.87  |  Q V    |         |         |         |
  1+50       0.1151      0.87  |  Q V    |         |         |         |
  1+55       0.1211      0.87  |  Q  V   |         |         |         |
  2+ 0       0.1274      0.92  |  Q  V   |         |         |         |
  2+ 5       0.1337      0.91  |  Q  V   |         |         |         |
  2+10       0.1401      0.93  |  Q   V  |         |         |         |
  2+15       0.1468      0.97  |  Q   V  |         |         |         |
  2+20       0.1535      0.97  |  Q   V  |         |         |         |
  2+25       0.1602      0.98  |  Q    V |         |         |         |
  2+30       0.1669      0.98  |  Q    V |         |         |         |
  2+35       0.1736      0.98  |  Q    V |         |         |         |
  2+40       0.1803      0.98  |  Q     V|         |         |         |
  2+45       0.1874      1.03  |   Q    V|         |         |         |
  2+50       0.1948      1.07  |   Q    V|         |         |         |
  2+55       0.2023      1.08  |   Q     V         |         |         |
  3+ 0       0.2097      1.08  |   Q     V         |         |         |
  3+ 5       0.2172      1.08  |   Q     |V        |         |         |
  3+10       0.2251      1.14  |   Q     |V        |         |         |
  3+15       0.2332      1.18  |   Q     |V        |         |         |
  3+20       0.2414      1.19  |   Q      V        |         |         |
  3+25       0.2500      1.25  |   Q      V        |         |         |
  3+30       0.2593      1.35  |    Q     V        |         |         |
  3+35       0.2693      1.45  |    Q     V        |         |         |
  3+40       0.2796      1.51  |     Q    |V       |         |         |
  3+45       0.2904      1.57  |     Q    |V       |         |         |
  3+50       0.3016      1.62  |     Q    |  V     |         |         |
  3+55       0.3131      1.68  |     Q    |  V     |         |         |
  4+ 0       0.3250      1.72  |     Q    |   V    |         |         |
  4+ 5       0.3373      1.79  |      Q   |    V   |         |         |
  4+10       0.3503      1.89  |      Q   |    V   |         |         |
  4+15       0.3641      1.99  |      Q   |     V  |         |         |
  4+20       0.3785      2.10  |       Q  |     V  |         |         |
  4+25       0.3938      2.21  |       Q  |     V| |         |         |
  4+30       0.4094      2.26  |        Q |      V |         |         |
  4+35       0.4254      2.33  |        Q |      |V|         |         |
  4+40       0.4421      2.43  |        Q |      | V        |         |
  4+45       0.4596      2.54  |         Q|      |  V       |         |
  4+50       0.4774      2.59  |         Q|      |   V      |         |
  4+55       0.4957      2.65  |         Q|      |    V     |         |
  5+ 0       0.5147      2.76  |         |Q      |     V    |         |
  5+ 5       0.5369      3.22  |         | Q     |      V   |         |
  5+10       0.5645      4.00  |         |    Q  |       V  |         |
  5+15       0.5967      4.68  |         |     Q |        V |         |
  5+20       0.6328      5.24  |         |       Q         | V       |
  5+25       0.6737      5.95  |         |         |  Q    |  V      |
  5+30       0.7229      7.14  |         |         |       Q     V   |
  5+35       0.7562      4.84  |         |        Q|         |      V |
  5+40       0.7702      2.03  |       Q |         |         |       V|
```

```
    5+45       0.7773      1.04  |   Q     |         |         |        V|
    5+50       0.7818      0.65  | Q       |         |         |        V|
    5+55       0.7849      0.45  |Q        |         |         |        V|
    6+ 0       0.7869      0.29  |Q        |         |         |        V|
    6+ 5       0.7877      0.12  Q         |         |         |        V|
    6+10       0.7879      0.02  Q         |         |         |        V|
    6+15       0.7879      0.00  Q         |         |         |         V
-------------------------------------------------------------------------
```

```
       U n i t   H y d r o g r a p h   A n a l y s i s

       Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2008, Version 8.1
              Study date  03/01/22 File: pro102410.out

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------------------------------------------------------------------------------

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       8.33(Ac.)  =      0.013 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       8.33(Ac.)  =      0.013 Sq. Mi.
Length along longest watercourse =     997.00(Ft.)
Length along longest watercourse measured to centroid =     499.00(Ft.)
Length along longest watercourse =      0.189 Mi.
Length along longest watercourse measured to centroid =      0.095 Mi.
Difference in elevation =      15.80(Ft.)
Slope along watercourse =     83.6750 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time =    0.034 Hr.
Lag time =     2.02 Min.
25% of lag time =     0.50 Min.
40% of lag time =     0.81 Min.
Unit time =     5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            1.80                 14.99

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            4.50                 37.48

STORM EVENT (YEAR) =   10.00
Area Averaged 2-Year Rainfall =    1.800(In)
Area Averaged 100-Year Rainfall =    4.500(In)

Point rain (area averaged) =    2.911(In)
Areal adjustment factor =  100.00 %
Adjusted average point rain =    2.911(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     8.330           56.00          0.650
 Total Area Entered =      8.33(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-2     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
56.0  56.0      0.511     0.650        0.212       1.000      0.212
                                                 Sum (F) =   0.212
Area averaged mean soil loss (F) (In/Hr) =  0.212
Minimum soil loss rate ((In/Hr)) =  0.106
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.380
------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
------------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
    (hrs)                          Graph %           (CFS)
------------------------------------------------------------------------
```

1	0.083	247.873	50.617	4.249
2	0.167	495.746	40.186	3.374
3	0.250	743.618	7.090	0.595
4	0.333	991.491	2.107	0.177
			Sum = 100.000 Sum=	8.395

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.023	(0.376)	0.009	0.014
2	0.17	0.07	0.023	(0.374)	0.009	0.014
3	0.25	0.07	0.023	(0.373)	0.009	0.014
4	0.33	0.10	0.035	(0.371)	0.013	0.022
5	0.42	0.10	0.035	(0.370)	0.013	0.022
6	0.50	0.10	0.035	(0.369)	0.013	0.022
7	0.58	0.10	0.035	(0.367)	0.013	0.022
8	0.67	0.10	0.035	(0.366)	0.013	0.022
9	0.75	0.10	0.035	(0.364)	0.013	0.022
10	0.83	0.13	0.047	(0.363)	0.018	0.029
11	0.92	0.13	0.047	(0.361)	0.018	0.029
12	1.00	0.13	0.047	(0.360)	0.018	0.029
13	1.08	0.10	0.035	(0.359)	0.013	0.022
14	1.17	0.10	0.035	(0.357)	0.013	0.022
15	1.25	0.10	0.035	(0.356)	0.013	0.022
16	1.33	0.10	0.035	(0.354)	0.013	0.022
17	1.42	0.10	0.035	(0.353)	0.013	0.022
18	1.50	0.10	0.035	(0.351)	0.013	0.022
19	1.58	0.10	0.035	(0.350)	0.013	0.022
20	1.67	0.10	0.035	(0.349)	0.013	0.022
21	1.75	0.10	0.035	(0.347)	0.013	0.022
22	1.83	0.13	0.047	(0.346)	0.018	0.029
23	1.92	0.13	0.047	(0.344)	0.018	0.029
24	2.00	0.13	0.047	(0.343)	0.018	0.029
25	2.08	0.13	0.047	(0.342)	0.018	0.029
26	2.17	0.13	0.047	(0.340)	0.018	0.029
27	2.25	0.13	0.047	(0.339)	0.018	0.029
28	2.33	0.13	0.047	(0.338)	0.018	0.029
29	2.42	0.13	0.047	(0.336)	0.018	0.029
30	2.50	0.13	0.047	(0.335)	0.018	0.029
31	2.58	0.17	0.058	(0.333)	0.022	0.036
32	2.67	0.17	0.058	(0.332)	0.022	0.036
33	2.75	0.17	0.058	(0.331)	0.022	0.036
34	2.83	0.17	0.058	(0.329)	0.022	0.036
35	2.92	0.17	0.058	(0.328)	0.022	0.036
36	3.00	0.17	0.058	(0.327)	0.022	0.036
37	3.08	0.17	0.058	(0.325)	0.022	0.036
38	3.17	0.17	0.058	(0.324)	0.022	0.036
39	3.25	0.17	0.058	(0.323)	0.022	0.036
40	3.33	0.17	0.058	(0.321)	0.022	0.036
41	3.42	0.17	0.058	(0.320)	0.022	0.036
42	3.50	0.17	0.058	(0.319)	0.022	0.036
43	3.58	0.17	0.058	(0.317)	0.022	0.036
44	3.67	0.17	0.058	(0.316)	0.022	0.036
45	3.75	0.17	0.058	(0.315)	0.022	0.036
46	3.83	0.20	0.070	(0.313)	0.027	0.043
47	3.92	0.20	0.070	(0.312)	0.027	0.043
48	4.00	0.20	0.070	(0.311)	0.027	0.043
49	4.08	0.20	0.070	(0.309)	0.027	0.043
50	4.17	0.20	0.070	(0.308)	0.027	0.043
51	4.25	0.20	0.070	(0.307)	0.027	0.043
52	4.33	0.23	0.082	(0.305)	0.031	0.051
53	4.42	0.23	0.082	(0.304)	0.031	0.051
54	4.50	0.23	0.082	(0.303)	0.031	0.051
55	4.58	0.23	0.082	(0.301)	0.031	0.051
56	4.67	0.23	0.082	(0.300)	0.031	0.051
57	4.75	0.23	0.082	(0.299)	0.031	0.051
58	4.83	0.27	0.093	(0.298)	0.035	0.058
59	4.92	0.27	0.093	(0.296)	0.035	0.058
60	5.00	0.27	0.093	(0.295)	0.035	0.058
61	5.08	0.20	0.070	(0.294)	0.027	0.043
62	5.17	0.20	0.070	(0.292)	0.027	0.043
63	5.25	0.20	0.070	(0.291)	0.027	0.043
64	5.33	0.23	0.082	(0.290)	0.031	0.051
65	5.42	0.23	0.082	(0.289)	0.031	0.051
66	5.50	0.23	0.082	(0.287)	0.031	0.051
67	5.58	0.27	0.093	(0.286)	0.035	0.058
68	5.67	0.27	0.093	(0.285)	0.035	0.058
69	5.75	0.27	0.093	(0.284)	0.035	0.058
70	5.83	0.27	0.093	(0.282)	0.035	0.058
71	5.92	0.27	0.093	(0.281)	0.035	0.058
72	6.00	0.27	0.093	(0.280)	0.035	0.058
73	6.08	0.30	0.105	(0.279)	0.040	0.065
74	6.17	0.30	0.105	(0.277)	0.040	0.065

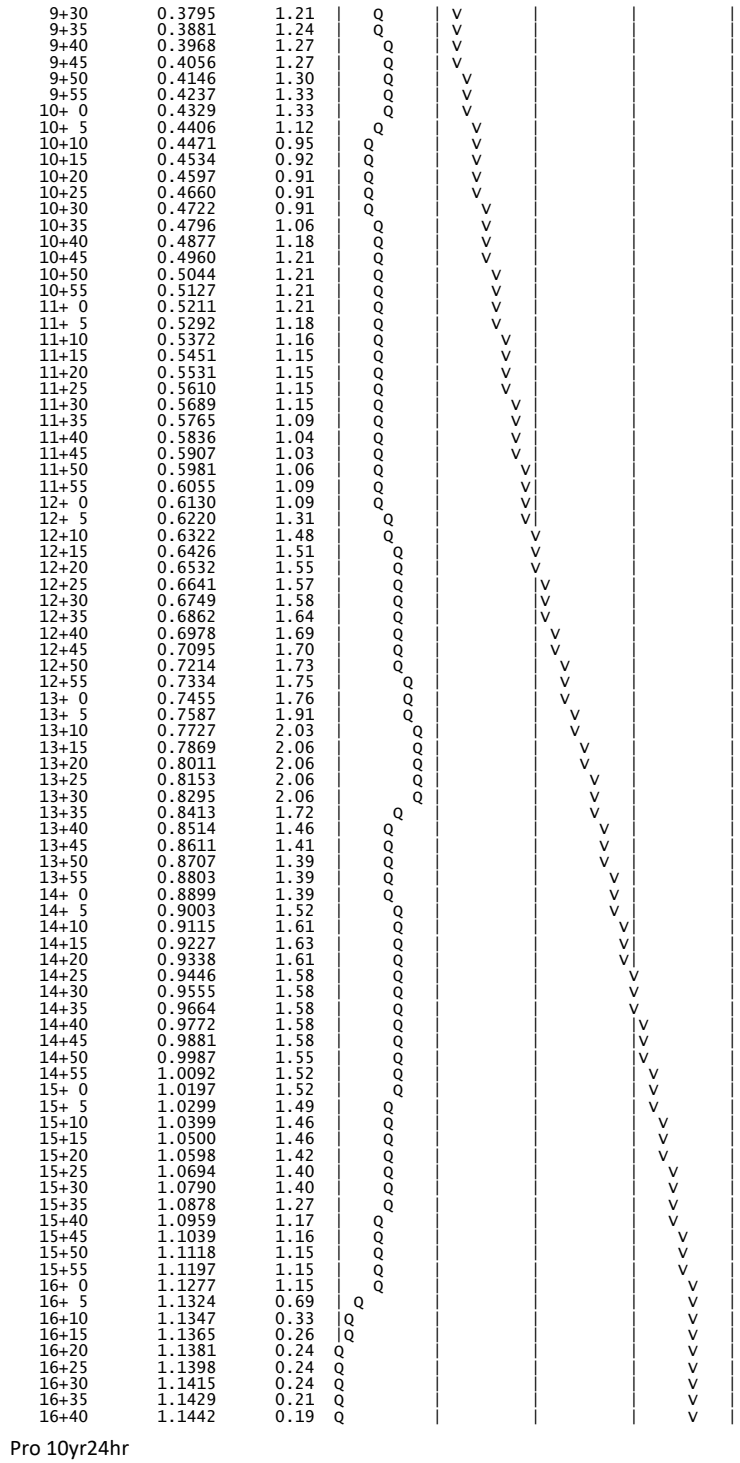
75	6.25	0.30	0.105	(0.276)	0.040	0.065
76	6.33	0.30	0.105	(0.275)	0.040	0.065
77	6.42	0.30	0.105	(0.274)	0.040	0.065
78	6.50	0.30	0.105	(0.272)	0.040	0.065
79	6.58	0.33	0.116	(0.271)	0.044	0.072
80	6.67	0.33	0.116	(0.270)	0.044	0.072
81	6.75	0.33	0.116	(0.269)	0.044	0.072
82	6.83	0.33	0.116	(0.268)	0.044	0.072
83	6.92	0.33	0.116	(0.266)	0.044	0.072
84	7.00	0.33	0.116	(0.265)	0.044	0.072
85	7.08	0.33	0.116	(0.264)	0.044	0.072
86	7.17	0.33	0.116	(0.263)	0.044	0.072
87	7.25	0.33	0.116	(0.262)	0.044	0.072
88	7.33	0.37	0.128	(0.260)	0.049	0.079
89	7.42	0.37	0.128	(0.259)	0.049	0.079
90	7.50	0.37	0.128	(0.258)	0.049	0.079
91	7.58	0.40	0.140	(0.257)	0.053	0.087
92	7.67	0.40	0.140	(0.256)	0.053	0.087
93	7.75	0.40	0.140	(0.254)	0.053	0.087
94	7.83	0.43	0.151	(0.253)	0.058	0.094
95	7.92	0.43	0.151	(0.252)	0.058	0.094
96	8.00	0.43	0.151	(0.251)	0.058	0.094
97	8.08	0.50	0.175	(0.250)	0.066	0.108
98	8.17	0.50	0.175	(0.249)	0.066	0.108
99	8.25	0.50	0.175	(0.247)	0.066	0.108
100	8.33	0.50	0.175	(0.246)	0.066	0.108
101	8.42	0.50	0.175	(0.245)	0.066	0.108
102	8.50	0.50	0.175	(0.244)	0.066	0.108
103	8.58	0.53	0.186	(0.243)	0.071	0.115
104	8.67	0.53	0.186	(0.242)	0.071	0.115
105	8.75	0.53	0.186	(0.241)	0.071	0.115
106	8.83	0.57	0.198	(0.239)	0.075	0.123
107	8.92	0.57	0.198	(0.238)	0.075	0.123
108	9.00	0.57	0.198	(0.237)	0.075	0.123
109	9.08	0.63	0.221	(0.236)	0.084	0.137
110	9.17	0.63	0.221	(0.235)	0.084	0.137
111	9.25	0.63	0.221	(0.234)	0.084	0.137
112	9.33	0.67	0.233	(0.233)	0.088	0.144
113	9.42	0.67	0.233	(0.232)	0.088	0.144
114	9.50	0.67	0.233	(0.230)	0.088	0.144
115	9.58	0.70	0.245	(0.229)	0.093	0.152
116	9.67	0.70	0.245	(0.228)	0.093	0.152
117	9.75	0.70	0.245	(0.227)	0.093	0.152
118	9.83	0.73	0.256	(0.226)	0.097	0.159
119	9.92	0.73	0.256	(0.225)	0.097	0.159
120	10.00	0.73	0.256	(0.224)	0.097	0.159
121	10.08	0.50	0.175	(0.223)	0.066	0.108
122	10.17	0.50	0.175	(0.222)	0.066	0.108
123	10.25	0.50	0.175	(0.221)	0.066	0.108
124	10.33	0.50	0.175	(0.220)	0.066	0.108
125	10.42	0.50	0.175	(0.218)	0.066	0.108
126	10.50	0.50	0.175	(0.217)	0.066	0.108
127	10.58	0.67	0.233	(0.216)	0.088	0.144
128	10.67	0.67	0.233	(0.215)	0.088	0.144
129	10.75	0.67	0.233	(0.214)	0.088	0.144
130	10.83	0.67	0.233	(0.213)	0.088	0.144
131	10.92	0.67	0.233	(0.212)	0.088	0.144
132	11.00	0.67	0.233	(0.211)	0.088	0.144
133	11.08	0.63	0.221	(0.210)	0.084	0.137
134	11.17	0.63	0.221	(0.209)	0.084	0.137
135	11.25	0.63	0.221	(0.208)	0.084	0.137
136	11.33	0.63	0.221	(0.207)	0.084	0.137
137	11.42	0.63	0.221	(0.206)	0.084	0.137
138	11.50	0.63	0.221	(0.205)	0.084	0.137
139	11.58	0.57	0.198	(0.204)	0.075	0.123
140	11.67	0.57	0.198	(0.203)	0.075	0.123
141	11.75	0.57	0.198	(0.202)	0.075	0.123
142	11.83	0.60	0.210	(0.201)	0.080	0.130
143	11.92	0.60	0.210	(0.200)	0.080	0.130
144	12.00	0.60	0.210	(0.199)	0.080	0.130
145	12.08	0.83	0.291	(0.198)	0.111	0.180
146	12.17	0.83	0.291	(0.197)	0.111	0.180
147	12.25	0.83	0.291	(0.196)	0.111	0.180
148	12.33	0.87	0.303	(0.195)	0.115	0.188
149	12.42	0.87	0.303	(0.194)	0.115	0.188
150	12.50	0.87	0.303	(0.193)	0.115	0.188
151	12.58	0.93	0.326	(0.192)	0.124	0.202
152	12.67	0.93	0.326	(0.191)	0.124	0.202
153	12.75	0.93	0.326	(0.190)	0.124	0.202
154	12.83	0.97	0.338	(0.189)	0.128	0.209
155	12.92	0.97	0.338	(0.188)	0.128	0.209
156	13.00	0.97	0.338	(0.187)	0.128	0.209
157	13.08	1.13	0.396	(0.186)	0.150	0.245
158	13.17	1.13	0.396	(0.185)	0.150	0.245
159	13.25	1.13	0.396	(0.184)	0.150	0.245
160	13.33	1.13	0.396	(0.183)	0.150	0.245
161	13.42	1.13	0.396	(0.182)	0.150	0.245

162	13.50	1.13	0.396	(0.182)	0.150	0.245
163	13.58	0.77	0.268	(0.181)	0.102	0.166
164	13.67	0.77	0.268	(0.180)	0.102	0.166
165	13.75	0.77	0.268	(0.179)	0.102	0.166
166	13.83	0.77	0.268	(0.178)	0.102	0.166
167	13.92	0.77	0.268	(0.177)	0.102	0.166
168	14.00	0.77	0.268	(0.176)	0.102	0.166
169	14.08	0.90	0.314	(0.175)	0.119	0.195
170	14.17	0.90	0.314	(0.174)	0.119	0.195
171	14.25	0.90	0.314	(0.173)	0.119	0.195
172	14.33	0.87	0.303	(0.173)	0.115	0.188
173	14.42	0.87	0.303	(0.172)	0.115	0.188
174	14.50	0.87	0.303	(0.171)	0.115	0.188
175	14.58	0.87	0.303	(0.170)	0.115	0.188
176	14.67	0.87	0.303	(0.169)	0.115	0.188
177	14.75	0.87	0.303	(0.168)	0.115	0.188
178	14.83	0.83	0.291	(0.167)	0.111	0.180
179	14.92	0.83	0.291	(0.166)	0.111	0.180
180	15.00	0.83	0.291	(0.166)	0.111	0.180
181	15.08	0.80	0.279	(0.165)	0.106	0.173
182	15.17	0.80	0.279	(0.164)	0.106	0.173
183	15.25	0.80	0.279	(0.163)	0.106	0.173
184	15.33	0.77	0.268	(0.162)	0.102	0.166
185	15.42	0.77	0.268	(0.161)	0.102	0.166
186	15.50	0.77	0.268	(0.161)	0.102	0.166
187	15.58	0.63	0.221	(0.160)	0.084	0.137
188	15.67	0.63	0.221	(0.159)	0.084	0.137
189	15.75	0.63	0.221	(0.158)	0.084	0.137
190	15.83	0.63	0.221	(0.157)	0.084	0.137
191	15.92	0.63	0.221	(0.156)	0.084	0.137
192	16.00	0.63	0.221	(0.156)	0.084	0.137
193	16.08	0.13	0.047	(0.155)	0.018	0.029
194	16.17	0.13	0.047	(0.154)	0.018	0.029
195	16.25	0.13	0.047	(0.153)	0.018	0.029
196	16.33	0.13	0.047	(0.153)	0.018	0.029
197	16.42	0.13	0.047	(0.152)	0.018	0.029
198	16.50	0.13	0.047	(0.151)	0.018	0.029
199	16.58	0.10	0.035	(0.150)	0.013	0.022
200	16.67	0.10	0.035	(0.149)	0.013	0.022
201	16.75	0.10	0.035	(0.149)	0.013	0.022
202	16.83	0.10	0.035	(0.148)	0.013	0.022
203	16.92	0.10	0.035	(0.147)	0.013	0.022
204	17.00	0.10	0.035	(0.146)	0.013	0.022
205	17.08	0.17	0.058	(0.146)	0.022	0.036
206	17.17	0.17	0.058	(0.145)	0.022	0.036
207	17.25	0.17	0.058	(0.144)	0.022	0.036
208	17.33	0.17	0.058	(0.143)	0.022	0.036
209	17.42	0.17	0.058	(0.143)	0.022	0.036
210	17.50	0.17	0.058	(0.142)	0.022	0.036
211	17.58	0.17	0.058	(0.141)	0.022	0.036
212	17.67	0.17	0.058	(0.141)	0.022	0.036
213	17.75	0.17	0.058	(0.140)	0.022	0.036
214	17.83	0.13	0.047	(0.139)	0.018	0.029
215	17.92	0.13	0.047	(0.139)	0.018	0.029
216	18.00	0.13	0.047	(0.138)	0.018	0.029
217	18.08	0.13	0.047	(0.137)	0.018	0.029
218	18.17	0.13	0.047	(0.137)	0.018	0.029
219	18.25	0.13	0.047	(0.136)	0.018	0.029
220	18.33	0.13	0.047	(0.135)	0.018	0.029
221	18.42	0.13	0.047	(0.135)	0.018	0.029
222	18.50	0.13	0.047	(0.134)	0.018	0.029
223	18.58	0.10	0.035	(0.133)	0.013	0.022
224	18.67	0.10	0.035	(0.133)	0.013	0.022
225	18.75	0.10	0.035	(0.132)	0.013	0.022
226	18.83	0.07	0.023	(0.131)	0.009	0.014
227	18.92	0.07	0.023	(0.131)	0.009	0.014
228	19.00	0.07	0.023	(0.130)	0.009	0.014
229	19.08	0.10	0.035	(0.129)	0.013	0.022
230	19.17	0.10	0.035	(0.129)	0.013	0.022
231	19.25	0.10	0.035	(0.128)	0.013	0.022
232	19.33	0.13	0.047	(0.128)	0.018	0.029
233	19.42	0.13	0.047	(0.127)	0.018	0.029
234	19.50	0.13	0.047	(0.126)	0.018	0.029
235	19.58	0.10	0.035	(0.126)	0.013	0.022
236	19.67	0.10	0.035	(0.125)	0.013	0.022
237	19.75	0.10	0.035	(0.125)	0.013	0.022
238	19.83	0.07	0.023	(0.124)	0.009	0.014
239	19.92	0.07	0.023	(0.124)	0.009	0.014
240	20.00	0.07	0.023	(0.123)	0.009	0.014
241	20.08	0.10	0.035	(0.123)	0.013	0.022
242	20.17	0.10	0.035	(0.122)	0.013	0.022
243	20.25	0.10	0.035	(0.121)	0.013	0.022
244	20.33	0.10	0.035	(0.121)	0.013	0.022
245	20.42	0.10	0.035	(0.120)	0.013	0.022
246	20.50	0.10	0.035	(0.120)	0.013	0.022
247	20.58	0.10	0.035	(0.119)	0.013	0.022
248	20.67	0.10	0.035	(0.119)	0.013	0.022

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249  20.75     0.10      0.035       (  0.118)       0.013        0.022
250  20.83     0.07      0.023       (  0.118)       0.009        0.014
251  20.92     0.07      0.023       (  0.117)       0.009        0.014
252  21.00     0.07      0.023       (  0.117)       0.009        0.014
253  21.08     0.10      0.035       (  0.117)       0.013        0.022
254  21.17     0.10      0.035       (  0.116)       0.013        0.022
255  21.25     0.10      0.035       (  0.116)       0.013        0.022
256  21.33     0.07      0.023       (  0.115)       0.009        0.014
257  21.42     0.07      0.023       (  0.115)       0.009        0.014
258  21.50     0.07      0.023       (  0.114)       0.009        0.014
259  21.58     0.10      0.035       (  0.114)       0.013        0.022
260  21.67     0.10      0.035       (  0.113)       0.013        0.022
261  21.75     0.10      0.035       (  0.113)       0.013        0.022
262  21.83     0.07      0.023       (  0.113)       0.009        0.014
263  21.92     0.07      0.023       (  0.112)       0.009        0.014
264  22.00     0.07      0.023       (  0.112)       0.009        0.014
265  22.08     0.10      0.035       (  0.112)       0.013        0.022
266  22.17     0.10      0.035       (  0.111)       0.013        0.022
267  22.25     0.10      0.035       (  0.111)       0.013        0.022
268  22.33     0.07      0.023       (  0.110)       0.009        0.014
269  22.42     0.07      0.023       (  0.110)       0.009        0.014
270  22.50     0.07      0.023       (  0.110)       0.009        0.014
271  22.58     0.07      0.023       (  0.110)       0.009        0.014
272  22.67     0.07      0.023       (  0.109)       0.009        0.014
273  22.75     0.07      0.023       (  0.109)       0.009        0.014
274  22.83     0.07      0.023       (  0.109)       0.009        0.014
275  22.92     0.07      0.023       (  0.108)       0.009        0.014
276  23.00     0.07      0.023       (  0.108)       0.009        0.014
277  23.08     0.07      0.023       (  0.108)       0.009        0.014
278  23.17     0.07      0.023       (  0.108)       0.009        0.014
279  23.25     0.07      0.023       (  0.107)       0.009        0.014
280  23.33     0.07      0.023       (  0.107)       0.009        0.014
281  23.42     0.07      0.023       (  0.107)       0.009        0.014
282  23.50     0.07      0.023       (  0.107)       0.009        0.014
283  23.58     0.07      0.023       (  0.107)       0.009        0.014
284  23.67     0.07      0.023       (  0.106)       0.009        0.014
285  23.75     0.07      0.023       (  0.106)       0.009        0.014
286  23.83     0.07      0.023       (  0.106)       0.009        0.014
287  23.92     0.07      0.023       (  0.106)       0.009        0.014
288  24.00     0.07      0.023       (  0.106)       0.009        0.014
               (Loss Rate Not Used)
    Sum =     100.0                                  Sum =    21.7
      Flood volume = Effective rainfall      1.80(In)
       times area       8.3(Ac.)/[(In)/(Ft.)] =       1.3(Ac.Ft)
      Total soil loss =      1.11(In)
      Total soil loss =     0.768(Ac.Ft)
      Total rainfall =      2.91(In)
      Flood volume =       54569.4 Cubic Feet
      Total soil loss =       33445.7 Cubic Feet
      ---------------------------------------------------------------------
       Peak flow rate of this hydrograph =      2.062(CFS)
      ---------------------------------------------------------------------
      +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                          24 - 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   5   Minute intervals ((CFS))

      ---------------------------------------------------------------------
 Time(h+m) Volume Ac.Ft   Q(CFS)  0        2.5       5.0       7.5       10.0
 ----------------------------------------------------------------------------
   0+ 5       0.0004      0.06  Q          |         |         |         |
   0+10       0.0012      0.11  Q          |         |         |         |
   0+15       0.0020      0.12  Q          |         |         |         |
   0+20       0.0030      0.15  Q          |         |         |         |
   0+25       0.0043      0.18  Q          |         |         |         |
   0+30       0.0055      0.18  Q          |         |         |         |
   0+35       0.0068      0.18  Q          |         |         |         |
   0+40       0.0080      0.18  Q          |         |         |         |
   0+45       0.0093      0.18  Q          |         |         |         |
   0+50       0.0107      0.21  Q          |         |         |         |
   0+55       0.0124      0.24  Q          |         |         |         |
   1+ 0       0.0140      0.24  Q          |         |         |         |
   1+ 5       0.0155      0.21  Q          |         |         |         |
   1+10       0.0168      0.19  Q          |         |         |         |
   1+15       0.0180      0.18  Q          |         |         |         |
   1+20       0.0193      0.18  Q          |         |         |         |
   1+25       0.0205      0.18  Q          |         |         |         |
   1+30       0.0218      0.18  Q          |         |         |         |
   1+35       0.0230      0.18  Q          |         |         |         |
   1+40       0.0243      0.18  Q          |         |         |         |
   1+45       0.0255      0.18  Q          |         |         |         |
   1+50       0.0270      0.21  Q          |         |         |         |
   1+55       0.0286      0.24  Q          |         |         |         |
   2+ 0       0.0303      0.24  Q          |         |         |         |
   2+ 5       0.0320      0.24  QV         |         |         |         |
   2+10       0.0336      0.24  QV         |         |         |         |
```

```
2+15       0.0353      0.24  QV        |         |         |         |
2+20       0.0370      0.24  QV        |         |         |         |
2+25       0.0387      0.24  QV        |         |         |         |
2+30       0.0403      0.24  QV        |         |         |         |
2+35       0.0422      0.27  |Q        |         |         |         |
2+40       0.0443      0.30  |Q        |         |         |         |
2+45       0.0463      0.30  |Q        |         |         |         |
2+50       0.0484      0.30  |Q        |         |         |         |
2+55       0.0505      0.30  |Q        |         |         |         |
3+ 0        0.0526      0.30  |Q        |         |         |         |
3+ 5        0.0547      0.30  |Q        |         |         |         |
3+10       0.0568      0.30  |Q        |         |         |         |
3+15       0.0589      0.30  |Q        |         |         |         |
3+20       0.0610      0.30  |Q        |         |         |         |
3+25       0.0630      0.30  |QV       |         |         |         |
3+30       0.0651      0.30  |QV       |         |         |         |
3+35       0.0672      0.30  |QV       |         |         |         |
3+40       0.0693      0.30  |QV       |         |         |         |
3+45       0.0714      0.30  |QV       |         |         |         |
3+50       0.0737      0.33  |QV       |         |         |         |
3+55       0.0762      0.36  |QV       |         |         |         |
4+ 0        0.0787      0.36  |QV       |         |         |         |
4+ 5        0.0812      0.36  |QV       |         |         |         |
4+10       0.0837      0.36  |QV       |         |         |         |
4+15       0.0862      0.36  |QV       |         |         |         |
4+20       0.0889      0.39  |QV       |         |         |         |
4+25       0.0918      0.42  |QV       |         |         |         |
4+30       0.0947      0.42  |Q V      |         |         |         |
4+35       0.0976      0.42  |Q V      |         |         |         |
4+40       0.1005      0.42  |Q V      |         |         |         |
4+45       0.1035      0.42  |Q V      |         |         |         |
4+50       0.1066      0.46  |Q V      |         |         |         |
4+55       0.1099      0.48  |Q V      |         |         |         |
5+ 0        0.1132      0.48  |Q V      |         |         |         |
5+ 5        0.1161      0.42  |Q V      |         |         |         |
5+10       0.1187      0.37  |Q V      |         |         |         |
5+15       0.1212      0.37  |Q V      |         |         |         |
5+20       0.1240      0.39  |Q V      |         |         |         |
5+25       0.1268      0.42  |Q  V     |         |         |         |
5+30       0.1298      0.42  |Q  V     |         |         |         |
5+35       0.1329      0.46  |Q  V     |         |         |         |
5+40       0.1362      0.48  |Q  V     |         |         |         |
5+45       0.1395      0.48  |Q  V     |         |         |         |
5+50       0.1429      0.49  |Q  V     |         |         |         |
5+55       0.1462      0.49  |Q  V     |         |         |         |
6+ 0        0.1496      0.49  |Q  V     |         |         |         |
6+ 5        0.1531      0.52  | Q V     |         |         |         |
6+10       0.1568      0.54  | Q  V    |         |         |         |
6+15       0.1606      0.54  | Q  V    |         |         |         |
6+20       0.1643      0.55  | Q  V    |         |         |         |
6+25       0.1681      0.55  | Q  V    |         |         |         |
6+30       0.1719      0.55  | Q  V    |         |         |         |
6+35       0.1758      0.58  | Q  V    |         |         |         |
6+40       0.1800      0.60  | Q  V    |         |         |         |
6+45       0.1841      0.61  | Q  V    |         |         |         |
6+50       0.1883      0.61  | Q   V   |         |         |         |
6+55       0.1925      0.61  | Q   V   |         |         |         |
7+ 0        0.1967      0.61  | Q   V   |         |         |         |
7+ 5        0.2008      0.61  | Q   V   |         |         |         |
7+10       0.2050      0.61  | Q   V   |         |         |         |
7+15       0.2092      0.61  | Q   V   |         |         |         |
7+20       0.2136      0.64  | Q   V   |         |         |         |
7+25       0.2181      0.66  | Q   V   |         |         |         |
7+30       0.2227      0.67  | Q    V  |         |         |         |
7+35       0.2275      0.70  | Q    V  |         |         |         |
7+40       0.2325      0.72  | Q    V  |         |         |         |
7+45       0.2375      0.73  | Q    V  |         |         |         |
7+50       0.2427      0.76  |  Q   V  |         |         |         |
7+55       0.2481      0.78  |  Q   V  |         |         |         |
8+ 0        0.2535      0.79  |  Q    V |         |         |         |
8+ 5        0.2594      0.85  |  Q    V |         |         |         |
8+10       0.2656      0.90  |  Q    V |         |         |         |
8+15       0.2718      0.91  |  Q    V |         |         |         |
8+20       0.2781      0.91  |  Q    V |         |         |         |
8+25       0.2843      0.91  |  Q     V|         |         |         |
8+30       0.2906      0.91  |  Q     V|         |         |         |
8+35       0.2971      0.94  |  Q     V|         |         |         |
8+40       0.3037      0.96  |  Q     V|         |         |         |
8+45       0.3104      0.97  |  Q     V|         |         |         |
8+50       0.3173      1.00  |   Q    V         |         |         |
8+55       0.3243      1.03  |   Q    V         |         |         |
9+ 0        0.3314      1.03  |   Q    V         |         |         |
9+ 5        0.3389      1.09  |   Q    V         |         |         |
9+10       0.3468      1.14  |   Q     |V        |         |         |
9+15       0.3547      1.15  |   Q     |V        |         |         |
9+20       0.3629      1.18  |   Q     |V        |         |         |
9+25       0.3712      1.21  |   Q     |V        |         |         |
```



9+30	0.3795	1.21	Q	V			
9+35	0.3881	1.24	Q	V			
9+40	0.3968	1.27	Q	V			
9+45	0.4056	1.27	Q	V			
9+50	0.4146	1.30	Q	V			
9+55	0.4237	1.33	Q	V			
10+ 0	0.4329	1.33	Q	V			
10+ 5	0.4406	1.12	Q	V			
10+10	0.4471	0.95	Q	V			
10+15	0.4534	0.92	Q	V			
10+20	0.4597	0.91	Q	V			
10+25	0.4660	0.91	Q	V			
10+30	0.4722	0.91	Q	V			
10+35	0.4796	1.06	Q	V			
10+40	0.4877	1.18	Q	V			
10+45	0.4960	1.21	Q	V			
10+50	0.5044	1.21	Q	V			
10+55	0.5127	1.21	Q	V			
11+ 0	0.5211	1.21	Q	V			
11+ 5	0.5292	1.18	Q	V			
11+10	0.5372	1.16	Q	V			
11+15	0.5451	1.15	Q	V			
11+20	0.5531	1.15	Q	V			
11+25	0.5610	1.15	Q	V			
11+30	0.5689	1.15	Q	V			
11+35	0.5765	1.09	Q	V			
11+40	0.5836	1.04	Q	V			
11+45	0.5907	1.03	Q	V			
11+50	0.5981	1.06	Q	V			
11+55	0.6055	1.09	Q	V			
12+ 0	0.6130	1.09	Q	V			
12+ 5	0.6220	1.31	Q	V			
12+10	0.6322	1.48	Q	V			
12+15	0.6426	1.51	Q	V			
12+20	0.6532	1.55	Q	V			
12+25	0.6641	1.57	Q	V			
12+30	0.6749	1.58	Q	V			
12+35	0.6862	1.64	Q	V			
12+40	0.6978	1.69	Q	V			
12+45	0.7095	1.70	Q	V			
12+50	0.7214	1.73	Q	V			
12+55	0.7334	1.75	Q	V			
13+ 0	0.7455	1.76	Q	V			
13+ 5	0.7587	1.91	Q	V			
13+10	0.7727	2.03	Q	V			
13+15	0.7869	2.06	Q	V			
13+20	0.8011	2.06	Q	V			
13+25	0.8153	2.06	Q	V			
13+30	0.8295	2.06	Q	V			
13+35	0.8413	1.72	Q	V			
13+40	0.8514	1.46	Q	V			
13+45	0.8611	1.41	Q	V			
13+50	0.8707	1.39	Q	V			
13+55	0.8803	1.39	Q	V			
14+ 0	0.8899	1.39	Q	V			
14+ 5	0.9003	1.52	Q	V			
14+10	0.9115	1.61	Q	V			
14+15	0.9227	1.63	Q	V			
14+20	0.9338	1.61	Q	V			
14+25	0.9446	1.58	Q	V			
14+30	0.9555	1.58	Q	V			
14+35	0.9664	1.58	Q	V			
14+40	0.9772	1.58	Q	V			
14+45	0.9881	1.58	Q	V			
14+50	0.9987	1.55	Q	V			
14+55	1.0092	1.52	Q	V			
15+ 0	1.0197	1.52	Q	V			
15+ 5	1.0299	1.49	Q	V			
15+10	1.0399	1.46	Q	V			
15+15	1.0500	1.46	Q	V			
15+20	1.0598	1.42	Q	V			
15+25	1.0694	1.40	Q	V			
15+30	1.0790	1.40	Q	V			
15+35	1.0878	1.27	Q	V			
15+40	1.0959	1.17	Q	V			
15+45	1.1039	1.16	Q	V			
15+50	1.1118	1.15	Q	V			
15+55	1.1197	1.15	Q	V			
16+ 0	1.1277	1.15	Q	V			
16+ 5	1.1324	0.69	Q	V			
16+10	1.1347	0.33	Q	V			
16+15	1.1365	0.26	Q	V			
16+20	1.1381	0.24	Q	V			
16+25	1.1398	0.24	Q	V			
16+30	1.1415	0.24	Q	V			
16+35	1.1429	0.21	Q	V			
16+40	1.1442	0.19	Q	V			

16+45	1.1455	0.18	Q	|	|	|	V |
16+50	1.1467	0.18	Q	|	|	|	V |
16+55	1.1480	0.18	Q	|	|	|	V |
17+ 0	1.1493	0.18	Q	|	|	|	V |
17+ 5	1.1509	0.24	Q	|	|	|	V |
17+10	1.1529	0.29	|Q	|	|	|	V |
17+15	1.1550	0.30	|Q	|	|	|	V |
17+20	1.1571	0.30	|Q	|	|	|	V |
17+25	1.1592	0.30	|Q	|	|	|	V |
17+30	1.1613	0.30	|Q	|	|	|	V |
17+35	1.1634	0.30	|Q	|	|	|	V |
17+40	1.1655	0.30	|Q	|	|	|	V |
17+45	1.1675	0.30	|Q	|	|	|	V |
17+50	1.1694	0.27	|Q	|	|	|	V |
17+55	1.1711	0.25	Q	|	|	|	V |
18+ 0	1.1728	0.24	Q	|	|	|	V |
18+ 5	1.1745	0.24	Q	|	|	|	V |
18+10	1.1761	0.24	Q	|	|	|	V |
18+15	1.1778	0.24	Q	|	|	|	V |
18+20	1.1795	0.24	Q	|	|	|	V |
18+25	1.1812	0.24	Q	|	|	|	V |
18+30	1.1828	0.24	Q	|	|	|	V |
18+35	1.1843	0.21	Q	|	|	|	V |
18+40	1.1856	0.19	Q	|	|	|	V |
18+45	1.1868	0.18	Q	|	|	|	V |
18+50	1.1879	0.15	Q	|	|	|	V |
18+55	1.1888	0.13	Q	|	|	|	V |
19+ 0	1.1896	0.12	Q	|	|	|	V |
19+ 5	1.1906	0.15	Q	|	|	|	V |
19+10	1.1919	0.18	Q	|	|	|	V |
19+15	1.1931	0.18	Q	|	|	|	V |
19+20	1.1946	0.21	Q	|	|	|	V |
19+25	1.1962	0.24	Q	|	|	|	V |
19+30	1.1979	0.24	Q	|	|	|	V |
19+35	1.1993	0.21	Q	|	|	|	V |
19+40	1.2006	0.19	Q	|	|	|	V |
19+45	1.2019	0.18	Q	|	|	|	V |
19+50	1.2029	0.15	Q	|	|	|	V |
19+55	1.2038	0.13	Q	|	|	|	V |
20+ 0	1.2046	0.12	Q	|	|	|	V |
20+ 5	1.2057	0.15	Q	|	|	|	V |
20+10	1.2069	0.18	Q	|	|	|	V |
20+15	1.2081	0.18	Q	|	|	|	V |
20+20	1.2094	0.18	Q	|	|	|	V |
20+25	1.2106	0.18	Q	|	|	|	V |
20+30	1.2119	0.18	Q	|	|	|	V |
20+35	1.2131	0.18	Q	|	|	|	V |
20+40	1.2144	0.18	Q	|	|	|	V |
20+45	1.2157	0.18	Q	|	|	|	V |
20+50	1.2167	0.15	Q	|	|	|	V |
20+55	1.2176	0.13	Q	|	|	|	V |
21+ 0	1.2184	0.12	Q	|	|	|	V |
21+ 5	1.2195	0.15	Q	|	|	|	V |
21+10	1.2207	0.18	Q	|	|	|	V |
21+15	1.2219	0.18	Q	|	|	|	V|
21+20	1.2230	0.15	Q	|	|	|	V|
21+25	1.2238	0.13	Q	|	|	|	V|
21+30	1.2247	0.12	Q	|	|	|	V|
21+35	1.2257	0.15	Q	|	|	|	V|
21+40	1.2269	0.18	Q	|	|	|	V|
21+45	1.2282	0.18	Q	|	|	|	V|
21+50	1.2292	0.15	Q	|	|	|	V|
21+55	1.2301	0.13	Q	|	|	|	V|
22+ 0	1.2309	0.12	Q	|	|	|	V|
22+ 5	1.2320	0.15	Q	|	|	|	V|
22+10	1.2332	0.18	Q	|	|	|	V|
22+15	1.2344	0.18	Q	|	|	|	V|
22+20	1.2355	0.15	Q	|	|	|	V|
22+25	1.2364	0.13	Q	|	|	|	V|
22+30	1.2372	0.12	Q	|	|	|	V|
22+35	1.2380	0.12	Q	|	|	|	V|
22+40	1.2389	0.12	Q	|	|	|	V|
22+45	1.2397	0.12	Q	|	|	|	V|
22+50	1.2405	0.12	Q	|	|	|	V|
22+55	1.2414	0.12	Q	|	|	|	V|
23+ 0	1.2422	0.12	Q	|	|	|	V|
23+ 5	1.2430	0.12	Q	|	|	|	V|
23+10	1.2439	0.12	Q	|	|	|	V|
23+15	1.2447	0.12	Q	|	|	|	V|
23+20	1.2456	0.12	Q	|	|	|	V|
23+25	1.2464	0.12	Q	|	|	|	V|
23+30	1.2472	0.12	Q	|	|	|	V|
23+35	1.2481	0.12	Q	|	|	|	V|
23+40	1.2489	0.12	Q	|	|	|	V|
23+45	1.2497	0.12	Q	|	|	|	V|
23+50	1.2506	0.12	Q	|	|	|	V|
23+55	1.2514	0.12	Q	|	|	|	V|

```
   24+ 0       1.2522      0.12  Q          |          |          |        V|
   24+ 5       1.2526      0.06  Q          |          |          |        V|
   24+10       1.2527      0.01  Q          |          |          |        V|
   24+15       1.2527      0.00  Q          |          |          |         V
-------------------------------------------------------------------------------
```

```
       U n i t   H y d r o g r a p h   A n a l y s i s

       Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2008, Version 8.1
              Study date  03/01/22 File: pro1001100.out

++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
------------------------------------------------------------------------------

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       8.33(Ac.)  =      0.013 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       8.33(Ac.)  =      0.013 Sq. Mi.
Length along longest watercourse =     997.00(Ft.)
Length along longest watercourse measured to centroid =     499.00(Ft.)
Length along longest watercourse =      0.189 Mi.
Length along longest watercourse measured to centroid =      0.095 Mi.
Difference in elevation =      15.80(Ft.)
Slope along watercourse =     83.6750 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time =    0.034 Hr.
Lag time =     2.02 Min.
25% of lag time =     0.50 Min.
40% of lag time =     0.81 Min.
Unit time =     5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            0.50                 4.17

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            1.20                10.00

STORM EVENT (YEAR) =  100.00
Area Averaged 2-Year Rainfall =    0.500(In)
Area Averaged 100-Year Rainfall =    1.200(In)

Point rain (area averaged) =    1.200(In)
Areal adjustment factor =   99.99 %
Adjusted average point rain =    1.200(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     8.330           56.00          0.650
 Total Area Entered =      8.33(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-2     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
56.0  56.0      0.511     0.650        0.212       1.000      0.212
                                                 Sum (F) =   0.212
Area averaged mean soil loss (F) (In/Hr) =  0.212
Minimum soil loss rate ((In/Hr)) =  0.106
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.380
------------------------------------------------------------------------
Slope of intensity-duration curve for a 1 hour storm =0.5000
------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
------------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
```

```
        (hrs)                          Graph %            (CFS)
      ------------------------------------------------------------------------
         1   0.083        247.873         50.617              4.249
         2   0.167        495.746         40.186              3.374
         3   0.250        743.618          7.090              0.595
         4   0.333        991.491          2.107              0.177
                                  Sum = 100.000    Sum=       8.395
------------------------------------------------------------------------------


 The following loss rate calculations reflect use of the minimum calculated loss
 rate subtracted from the Storm Rain to produce the maximum Effective Rain value

  Unit Time   Pattern   Storm Rain     Loss rate(In./Hr)     Effective
       (Hr.)  Percent   (In/Hr)         Max    |   Low        (In/Hr)
    1   0.08     4.20      0.605          0.212    (  0.230)        0.393
    2   0.17     4.30      0.619          0.212    (  0.235)        0.407
    3   0.25     5.00      0.720          0.212    (  0.274)        0.508
    4   0.33     5.00      0.720          0.212    (  0.274)        0.508
    5   0.42     5.80      0.835          0.212    (  0.317)        0.623
    6   0.50     6.50      0.936          0.212    (  0.356)        0.724
    7   0.58     7.40      1.066          0.212    (  0.405)        0.854
    8   0.67     8.60      1.238          0.212    (  0.471)        1.026
    9   0.75    12.30      1.771          0.212    (  0.673)        1.559
   10   0.83    29.10      4.190          0.212    (  1.592)        3.978
   11   0.92     6.80      0.979          0.212    (  0.372)        0.767
   12   1.00     5.00      0.720          0.212    (  0.274)        0.508
             (Loss Rate Not Used)
      Sum =     100.0                                 Sum =    11.9
        Flood volume = Effective rainfall      0.99(In)
         times area       8.3(Ac.)/[(In)/(Ft.)] =       0.7(Ac.Ft)
        Total soil loss =       0.21(In)
        Total soil loss =     0.147(Ac.Ft)
        Total rainfall =      1.20(In)
        Flood volume =       29872.9 Cubic Feet
        Total soil loss =         6409.9 Cubic Feet
        ---------------------------------------------------------------------
         Peak flow rate of this hydrograph =     22.938(CFS)
        ---------------------------------------------------------------------
        +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                             1 - 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   5   Minute intervals ((CFS))

        ---------------------------------------------------------------------
  Time(h+m) Volume Ac.Ft   Q(CFS)  0        7.5      15.0      22.5      30.0
  ------------------------------------------------------------------------
    0+ 5       0.0115      1.67  V Q       |         |         |         |
    0+10       0.0326      3.06  |V  Q     |         |         |         |
    0+15       0.0585      3.77  |  V Q    |         |         |         |
    0+20       0.0873      4.19  |    Q    |         |         |         |
    0+25       0.1200      4.74  |     Q   |         |         |         |
    0+30       0.1584      5.57  |      Q V|         |         |         |
    0+35       0.2034      6.53  |       Q |V        |         |         |
    0+40       0.2570      7.79  |         Q   V     |         |         |
    0+45       0.3309     10.73  |         |   Q    V|         |         |
    0+50       0.4888     22.94  |         |         |        V Q        |
    0+55       0.6114     17.80  |         |         |  Q      |    V      |
    1+ 0       0.6623      7.39  |         Q|        |         |      V    |
    1+ 5       0.6821      2.88  |  Q      |         |         |         V|
    1+10       0.6852      0.44  Q         |         |         |         V|
    1+15       0.6858      0.09  Q         |         |         |          V
------------------------------------------------------------------------------
```

```
       U n i t   H y d r o g r a p h   A n a l y s i s

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              Study date  03/01/22 File: pro1003100.out

++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
------------------------------------------------------------------------------

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       8.33(Ac.)  =      0.013 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       8.33(Ac.)  =      0.013 Sq. Mi.
Length along longest watercourse =     997.00(Ft.)
Length along longest watercourse measured to centroid =     499.00(Ft.)
Length along longest watercourse =      0.189 Mi.
Length along longest watercourse measured to centroid =      0.095 Mi.
Difference in elevation =      15.80(Ft.)
Slope along watercourse =     83.6750 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time =    0.034 Hr.
Lag time =     2.02 Min.
25% of lag time =     0.50 Min.
40% of lag time =     0.81 Min.
Unit time =     5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            0.80                 6.66

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            1.90                15.83

STORM EVENT (YEAR) =  100.00
Area Averaged 2-Year Rainfall =    0.800(In)
Area Averaged 100-Year Rainfall =    1.900(In)

Point rain (area averaged) =    1.900(In)
Areal adjustment factor =  100.00 %
Adjusted average point rain =    1.900(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     8.330           56.00          0.650
 Total Area Entered =      8.33(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-2     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
56.0  56.0      0.511     0.650        0.212       1.000      0.212
                                                 Sum (F) =   0.212
Area averaged mean soil loss (F) (In/Hr) =  0.212
Minimum soil loss rate ((In/Hr)) =  0.106
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.380
------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
-------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
    (hrs)                          Graph %           (CFS)
------------------------------------------------------------------------
```

1	0.083	247.873	50.617	4.249
2	0.167	495.746	40.186	3.374
3	0.250	743.618	7.090	0.595
4	0.333	991.491	2.107	0.177
		Sum = 100.000	Sum=	8.395

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	1.30	0.296	(0.212)	0.113	0.184
2	0.17	1.30	0.296	(0.212)	0.113	0.184
3	0.25	1.10	0.251	(0.212)	0.095	0.155
4	0.33	1.50	0.342	(0.212)	0.130	0.212
5	0.42	1.50	0.342	(0.212)	0.130	0.212
6	0.50	1.80	0.410	(0.212)	0.156	0.254
7	0.58	1.50	0.342	(0.212)	0.130	0.212
8	0.67	1.80	0.410	(0.212)	0.156	0.254
9	0.75	1.80	0.410	(0.212)	0.156	0.254
10	0.83	1.50	0.342	(0.212)	0.130	0.212
11	0.92	1.60	0.365	(0.212)	0.139	0.226
12	1.00	1.80	0.410	(0.212)	0.156	0.254
13	1.08	2.20	0.502	(0.212)	0.191	0.311
14	1.17	2.20	0.502	(0.212)	0.191	0.311
15	1.25	2.20	0.502	(0.212)	0.191	0.311
16	1.33	2.00	0.456	(0.212)	0.173	0.283
17	1.42	2.60	0.593	0.212	(0.225)	0.381
18	1.50	2.70	0.616	0.212	(0.234)	0.404
19	1.58	2.40	0.547	(0.212)	0.208	0.339
20	1.67	2.70	0.616	0.212	(0.234)	0.404
21	1.75	3.30	0.752	0.212	(0.286)	0.540
22	1.83	3.10	0.707	0.212	(0.269)	0.495
23	1.92	2.90	0.661	0.212	(0.251)	0.449
24	2.00	3.00	0.684	0.212	(0.260)	0.472
25	2.08	3.10	0.707	0.212	(0.269)	0.495
26	2.17	4.20	0.958	0.212	(0.364)	0.746
27	2.25	5.00	1.140	0.212	(0.433)	0.928
28	2.33	3.50	0.798	0.212	(0.303)	0.586
29	2.42	6.80	1.550	0.212	(0.589)	1.338
30	2.50	7.30	1.664	0.212	(0.632)	1.452
31	2.58	8.20	1.870	0.212	(0.710)	1.658
32	2.67	5.90	1.345	0.212	(0.511)	1.133
33	2.75	2.00	0.456	(0.212)	0.173	0.283
34	2.83	1.80	0.410	(0.212)	0.156	0.254
35	2.92	1.80	0.410	(0.212)	0.156	0.254
36	3.00	0.60	0.137	(0.212)	0.052	0.085
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	16.5

Flood volume = Effective rainfall 1.38(In)
times area 8.3(Ac.)/[(In)/(Ft.)] = 1.0(Ac.Ft)
Total soil loss = 0.52(In)
Total soil loss = 0.363(Ac.Ft)
Total rainfall = 1.90(In)
Flood volume = 41643.9 Cubic Feet
Total soil loss = 15806.0 Cubic Feet

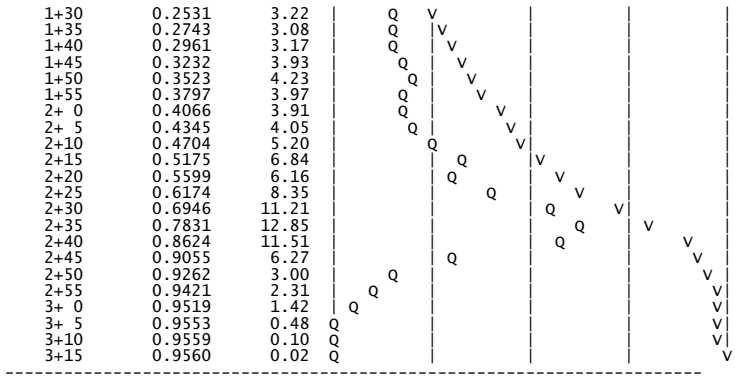
Peak flow rate of this hydrograph = 12.850(CFS)

---

3 - 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 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	5.0	10.0	15.0	20.0
0+ 5	0.0054	0.78	VQ				
0+10	0.0150	1.40	V Q				
0+15	0.0246	1.39	VQ				
0+20	0.0354	1.57	V Q				
0+25	0.0474	1.74	V Q				
0+30	0.0608	1.95	VQ				
0+35	0.0741	1.92	Q				
0+40	0.0878	1.99	Q				
0+45	0.1023	2.11	Q				
0+50	0.1158	1.95	QV				
0+55	0.1287	1.87	Q V				
1+ 0	0.1425	2.02	QV				
1+ 5	0.1588	2.35	Q V				
1+10	0.1764	2.56	Q V				
1+15	0.1943	2.60	Q V				
1+20	0.2115	2.49	Q V				
1+25	0.2309	2.81	Q V				


1+30 0.2531 3.22
1+35 0.2743 3.08
1+40 0.2961 3.17
1+45 0.3232 3.93
1+50 0.3523 4.23
1+55 0.3797 3.97
2+ 0 0.4066 3.91
2+ 5 0.4345 4.05
2+10 0.4704 5.20
2+15 0.5175 6.84
2+20 0.5599 6.16
2+25 0.6174 8.35
2+30 0.6946 11.21
2+35 0.7831 12.85
2+40 0.8624 11.51
2+45 0.9055 6.27
2+50 0.9262 3.00
2+55 0.9421 2.31
3+ 0 0.9519 1.42
3+ 5 0.9553 0.48
3+10 0.9559 0.10
3+15 0.9560 0.02

```
       U n i t   H y d r o g r a p h   A n a l y s i s

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              Study date  03/01/22 File: pro1006100.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       8.33(Ac.)  =      0.013 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       8.33(Ac.)  =      0.013 Sq. Mi.
Length along longest watercourse =     997.00(Ft.)
Length along longest watercourse measured to centroid =     499.00(Ft.)
Length along longest watercourse =      0.189 Mi.
Length along longest watercourse measured to centroid =      0.095 Mi.
Difference in elevation =      15.80(Ft.)
Slope along watercourse =     83.6750 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time =    0.034 Hr.
Lag time =     2.02 Min.
25% of lag time =     0.50 Min.
40% of lag time =     0.81 Min.
Unit time =     5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            1.20                 10.00

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            2.50                 20.82

STORM EVENT (YEAR) =  100.00
Area Averaged 2-Year Rainfall =    1.200(In)
Area Averaged 100-Year Rainfall =    2.500(In)

Point rain (area averaged) =    2.500(In)
Areal adjustment factor =  100.00 %
Adjusted average point rain =    2.500(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     8.330           56.00          0.650
 Total Area Entered =      8.33(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-2     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
56.0  56.0      0.511     0.650        0.212       1.000      0.212
                                                 Sum (F) =   0.212
Area averaged mean soil loss (F) (In/Hr) =  0.212
Minimum soil loss rate ((In/Hr)) =  0.106
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.380
------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
------------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
    (hrs)                          Graph %           (CFS)
------------------------------------------------------------------------
```

1	0.083	247.873	50.617	4.249
2	0.167	495.746	40.186	3.374
3	0.250	743.618	7.090	0.595
4	0.333	991.491	2.107	0.177
			Sum = 100.000 Sum=	8.395

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.150	(0.212)	0.057	0.093
2	0.17	0.60	0.180	(0.212)	0.068	0.112
3	0.25	0.60	0.180	(0.212)	0.068	0.112
4	0.33	0.60	0.180	(0.212)	0.068	0.112
5	0.42	0.60	0.180	(0.212)	0.068	0.112
6	0.50	0.70	0.210	(0.212)	0.080	0.130
7	0.58	0.70	0.210	(0.212)	0.080	0.130
8	0.67	0.70	0.210	(0.212)	0.080	0.130
9	0.75	0.70	0.210	(0.212)	0.080	0.130
10	0.83	0.70	0.210	(0.212)	0.080	0.130
11	0.92	0.70	0.210	(0.212)	0.080	0.130
12	1.00	0.80	0.240	(0.212)	0.091	0.149
13	1.08	0.80	0.240	(0.212)	0.091	0.149
14	1.17	0.80	0.240	(0.212)	0.091	0.149
15	1.25	0.80	0.240	(0.212)	0.091	0.149
16	1.33	0.80	0.240	(0.212)	0.091	0.149
17	1.42	0.80	0.240	(0.212)	0.091	0.149
18	1.50	0.80	0.240	(0.212)	0.091	0.149
19	1.58	0.80	0.240	(0.212)	0.091	0.149
20	1.67	0.80	0.240	(0.212)	0.091	0.149
21	1.75	0.80	0.240	(0.212)	0.091	0.149
22	1.83	0.80	0.240	(0.212)	0.091	0.149
23	1.92	0.80	0.240	(0.212)	0.091	0.149
24	2.00	0.90	0.270	(0.212)	0.103	0.167
25	2.08	0.80	0.240	(0.212)	0.091	0.149
26	2.17	0.90	0.270	(0.212)	0.103	0.167
27	2.25	0.90	0.270	(0.212)	0.103	0.167
28	2.33	0.90	0.270	(0.212)	0.103	0.167
29	2.42	0.90	0.270	(0.212)	0.103	0.167
30	2.50	0.90	0.270	(0.212)	0.103	0.167
31	2.58	0.90	0.270	(0.212)	0.103	0.167
32	2.67	0.90	0.270	(0.212)	0.103	0.167
33	2.75	1.00	0.300	(0.212)	0.114	0.186
34	2.83	1.00	0.300	(0.212)	0.114	0.186
35	2.92	1.00	0.300	(0.212)	0.114	0.186
36	3.00	1.00	0.300	(0.212)	0.114	0.186
37	3.08	1.00	0.300	(0.212)	0.114	0.186
38	3.17	1.10	0.330	(0.212)	0.125	0.205
39	3.25	1.10	0.330	(0.212)	0.125	0.205
40	3.33	1.10	0.330	(0.212)	0.125	0.205
41	3.42	1.20	0.360	(0.212)	0.137	0.223
42	3.50	1.30	0.390	(0.212)	0.148	0.242
43	3.58	1.40	0.420	(0.212)	0.160	0.260
44	3.67	1.40	0.420	(0.212)	0.160	0.260
45	3.75	1.50	0.450	(0.212)	0.171	0.279
46	3.83	1.50	0.450	(0.212)	0.171	0.279
47	3.92	1.60	0.480	(0.212)	0.182	0.298
48	4.00	1.60	0.480	(0.212)	0.182	0.298
49	4.08	1.70	0.510	(0.212)	0.194	0.316
50	4.17	1.80	0.540	(0.212)	0.205	0.335
51	4.25	1.90	0.570	0.212	(0.217)	0.358
52	4.33	2.00	0.600	0.212	(0.228)	0.388
53	4.42	2.10	0.630	0.212	(0.239)	0.418
54	4.50	2.10	0.630	0.212	(0.239)	0.418
55	4.58	2.20	0.660	0.212	(0.251)	0.448
56	4.67	2.30	0.690	0.212	(0.262)	0.478
57	4.75	2.40	0.720	0.212	(0.274)	0.508
58	4.83	2.40	0.720	0.212	(0.274)	0.508
59	4.92	2.50	0.750	0.212	(0.285)	0.538
60	5.00	2.60	0.780	0.212	(0.296)	0.568
61	5.08	3.10	0.930	0.212	(0.353)	0.718
62	5.17	3.60	1.080	0.212	(0.410)	0.868
63	5.25	3.90	1.170	0.212	(0.445)	0.958
64	5.33	4.20	1.260	0.212	(0.479)	1.048
65	5.42	4.70	1.410	0.212	(0.536)	1.198
66	5.50	5.60	1.680	0.212	(0.638)	1.468
67	5.58	1.90	0.570	0.212	(0.217)	0.358
68	5.67	0.90	0.270	(0.212)	0.103	0.167
69	5.75	0.60	0.180	(0.212)	0.068	0.112
70	5.83	0.50	0.150	(0.212)	0.057	0.093
71	5.92	0.30	0.090	(0.212)	0.034	0.056
72	6.00	0.20	0.060	(0.212)	0.023	0.037
		(Loss Rate Not Used)				
	Sum =	100.0			Sum =	20.6

```
Flood volume = Effective rainfall      1.72(In)
 times area       8.3(Ac.)/[(In)/(Ft.)] =       1.2(Ac.Ft)
Total soil loss =      0.78(In)
Total soil loss =     0.541(Ac.Ft)
Total rainfall =      2.50(In)
Flood volume =       52005.7 Cubic Feet
Total soil loss =       23586.9 Cubic Feet
--------------------------------------------------------------------------
 Peak flow rate of this hydrograph =     11.078(CFS)
--------------------------------------------------------------------------
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                      6 - 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   5   Minute intervals ((CFS))

--------------------------------------------------------------------------
Time(h+m) Volume Ac.Ft   Q(CFS)  0         5.0       10.0      15.0      20.0
--------------------------------------------------------------------------
  0+ 5       0.0027      0.40  Q          |         |         |         |
  0+10       0.0082      0.79  VQ         |         |         |         |
  0+15       0.0144      0.91  VQ         |         |         |         |
  0+20       0.0208      0.93  VQ         |         |         |         |
  0+25       0.0273      0.94  VQ         |         |         |         |
  0+30       0.0343      1.02  |VQ        |         |         |         |
  0+35       0.0417      1.08  |VQ        |         |         |         |
  0+40       0.0492      1.09  |VQ        |         |         |         |
  0+45       0.0568      1.09  |VQ        |         |         |         |
  0+50       0.0643      1.09  | Q        |         |         |         |
  0+55       0.0718      1.09  | Q        |         |         |         |
  1+ 0       0.0799      1.17  | Q        |         |         |         |
  1+ 5       0.0884      1.24  | Q        |         |         |         |
  1+10       0.0970      1.25  | QV       |         |         |         |
  1+15       0.1056      1.25  | QV       |         |         |         |
  1+20       0.1142      1.25  | QV       |         |         |         |
  1+25       0.1228      1.25  | Q V      |         |         |         |
  1+30       0.1314      1.25  | Q V      |         |         |         |
  1+35       0.1400      1.25  | Q V      |         |         |         |
  1+40       0.1486      1.25  | Q V      |         |         |         |
  1+45       0.1572      1.25  | Q  V     |         |         |         |
  1+50       0.1658      1.25  | Q  V     |         |         |         |
  1+55       0.1745      1.25  | Q  V     |         |         |         |
  2+ 0       0.1836      1.33  | Q   V    |         |         |         |
  2+ 5       0.1926      1.31  | Q   V    |         |         |         |
  2+10       0.2019      1.34  | Q   V    |         |         |         |
  2+15       0.2115      1.39  | Q    V   |         |         |         |
  2+20       0.2211      1.40  | Q    V   |         |         |         |
  2+25       0.2308      1.41  | Q    V   |         |         |         |
  2+30       0.2405      1.41  | Q     V  |         |         |         |
  2+35       0.2502      1.41  | Q     V  |         |         |         |
  2+40       0.2599      1.41  | Q     V  |         |         |         |
  2+45       0.2701      1.49  | Q      V |         |         |         |
  2+50       0.2808      1.55  |  Q     V |         |         |         |
  2+55       0.2915      1.56  |  Q     V |         |         |         |
  3+ 0       0.3023      1.56  |  Q      V|         |         |         |
  3+ 5       0.3130      1.56  |  Q      V|         |         |         |
  3+10       0.3243      1.64  |  Q      V|         |         |         |
  3+15       0.3361      1.70  |  Q       |V        |         |         |
  3+20       0.3479      1.72  |  Q       |V        |         |         |
  3+25       0.3603      1.80  |  Q       | V       |         |         |
  3+30       0.3736      1.94  |  Q       | V       |         |         |
  3+35       0.3880      2.09  |   Q      |  V      |         |         |
  3+40       0.4030      2.17  |   Q      |  V      |         |         |
  3+45       0.4185      2.26  |   Q      |   V     |         |         |
  3+50       0.4346      2.33  |   Q      |   V     |         |         |
  3+55       0.4512      2.42  |   Q      |    V    |         |         |
  4+ 0       0.4684      2.49  |   Q      |    V    |         |         |
  4+ 5       0.4861      2.58  |    Q     |     V   |         |         |
  4+10       0.5048      2.72  |    Q     |     V   |         |         |
  4+15       0.5248      2.89  |    Q     |      V  |         |         |
  4+20       0.5462      3.11  |     Q    |       V |         |         |
  4+25       0.5693      3.36  |     Q    |        V|         |         |
  4+30       0.5933      3.48  |     Q    |        V|         |         |
  4+35       0.6183      3.63  |      Q   |         V         |         |
  4+40       0.6450      3.87  |      Q   |          V        |         |
  4+45       0.6733      4.11  |       Q  |          | V      |         |
  4+50       0.7025      4.24  |       Q  |          |  V     |         |
  4+55       0.7327      4.39  |       Q  |          |   V    |         |
  5+ 0       0.7646      4.62  |        Q |          |    V   |         |
  5+ 5       0.8016      5.38  |         Q|          |     V  |         |
  5+10       0.8467      6.55  |          |  Q       |      V |         |
  5+15       0.8986      7.53  |          |   Q      |        V         |
  5+20       0.9560      8.33  |          |    Q     |         | V       |
  5+25       1.0204      9.35  |          |     Q    |         |  V      |
  5+30       1.0967     11.08  |          |          |  Q      |   V     |
  5+35       1.1475      7.38  |          |   Q      |         |    V    |
  5+40       1.1682      3.01  |    Q     |          |         |     V   |
```

```
    5+45       1.1786      1.51  |  Q       |          |          |         V|
    5+50       1.1851      0.94  |Q         |          |          |         V|
    5+55       1.1895      0.65  |Q         |          |          |         V|
    6+ 0       1.1924      0.42  Q          |          |          |         V|
    6+ 5       1.1936      0.18  Q          |          |          |         V|
    6+10       1.1938      0.03  Q          |          |          |         V|
    6+15       1.1939      0.01  Q          |          |          |         V|
-------------------------------------------------------------------------------
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       U n i t   H y d r o g r a p h   A n a l y s i s

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              Study date  03/01/22 File: pro10024100.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       8.33(Ac.)  =      0.013 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       8.33(Ac.)  =      0.013 Sq. Mi.
Length along longest watercourse =     997.00(Ft.)
Length along longest watercourse measured to centroid =     499.00(Ft.)
Length along longest watercourse =      0.189 Mi.
Length along longest watercourse measured to centroid =      0.095 Mi.
Difference in elevation =      15.80(Ft.)
Slope along watercourse =     83.6750 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time =    0.034 Hr.
Lag time =     2.02 Min.
25% of lag time =     0.50 Min.
40% of lag time =     0.81 Min.
Unit time =     5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            1.80                 14.99

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        8.33            4.50                 37.48

STORM EVENT (YEAR) =  100.00
Area Averaged 2-Year Rainfall =    1.800(In)
Area Averaged 100-Year Rainfall =    4.500(In)

Point rain (area averaged) =    4.500(In)
Areal adjustment factor =  100.00 %
Adjusted average point rain =    4.500(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     8.330           56.00          0.650
 Total Area Entered =      8.33(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-2     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
56.0  56.0      0.511     0.650        0.212       1.000      0.212
                                                 Sum (F) =   0.212
Area averaged mean soil loss (F) (In/Hr) =  0.212
Minimum soil loss rate ((In/Hr)) =  0.106
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.380
------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
-------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
    (hrs)                          Graph %           (CFS)
------------------------------------------------------------------------
```

1	0.083	247.873	50.617	4.249
2	0.167	495.746	40.186	3.374
3	0.250	743.618	7.090	0.595
4	0.333	991.491	2.107	0.177
			Sum = 100.000 Sum=	8.395

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.036	(0.376)	0.014	0.022
2	0.17	0.07	0.036	(0.374)	0.014	0.022
3	0.25	0.07	0.036	(0.373)	0.014	0.022
4	0.33	0.10	0.054	(0.371)	0.021	0.033
5	0.42	0.10	0.054	(0.370)	0.021	0.033
6	0.50	0.10	0.054	(0.369)	0.021	0.033
7	0.58	0.10	0.054	(0.367)	0.021	0.033
8	0.67	0.10	0.054	(0.366)	0.021	0.033
9	0.75	0.10	0.054	(0.364)	0.021	0.033
10	0.83	0.13	0.072	(0.363)	0.027	0.045
11	0.92	0.13	0.072	(0.361)	0.027	0.045
12	1.00	0.13	0.072	(0.360)	0.027	0.045
13	1.08	0.10	0.054	(0.359)	0.021	0.033
14	1.17	0.10	0.054	(0.357)	0.021	0.033
15	1.25	0.10	0.054	(0.356)	0.021	0.033
16	1.33	0.10	0.054	(0.354)	0.021	0.033
17	1.42	0.10	0.054	(0.353)	0.021	0.033
18	1.50	0.10	0.054	(0.351)	0.021	0.033
19	1.58	0.10	0.054	(0.350)	0.021	0.033
20	1.67	0.10	0.054	(0.349)	0.021	0.033
21	1.75	0.10	0.054	(0.347)	0.021	0.033
22	1.83	0.13	0.072	(0.346)	0.027	0.045
23	1.92	0.13	0.072	(0.344)	0.027	0.045
24	2.00	0.13	0.072	(0.343)	0.027	0.045
25	2.08	0.13	0.072	(0.342)	0.027	0.045
26	2.17	0.13	0.072	(0.340)	0.027	0.045
27	2.25	0.13	0.072	(0.339)	0.027	0.045
28	2.33	0.13	0.072	(0.338)	0.027	0.045
29	2.42	0.13	0.072	(0.336)	0.027	0.045
30	2.50	0.13	0.072	(0.335)	0.027	0.045
31	2.58	0.17	0.090	(0.333)	0.034	0.056
32	2.67	0.17	0.090	(0.332)	0.034	0.056
33	2.75	0.17	0.090	(0.331)	0.034	0.056
34	2.83	0.17	0.090	(0.329)	0.034	0.056
35	2.92	0.17	0.090	(0.328)	0.034	0.056
36	3.00	0.17	0.090	(0.327)	0.034	0.056
37	3.08	0.17	0.090	(0.325)	0.034	0.056
38	3.17	0.17	0.090	(0.324)	0.034	0.056
39	3.25	0.17	0.090	(0.323)	0.034	0.056
40	3.33	0.17	0.090	(0.321)	0.034	0.056
41	3.42	0.17	0.090	(0.320)	0.034	0.056
42	3.50	0.17	0.090	(0.319)	0.034	0.056
43	3.58	0.17	0.090	(0.317)	0.034	0.056
44	3.67	0.17	0.090	(0.316)	0.034	0.056
45	3.75	0.17	0.090	(0.315)	0.034	0.056
46	3.83	0.20	0.108	(0.313)	0.041	0.067
47	3.92	0.20	0.108	(0.312)	0.041	0.067
48	4.00	0.20	0.108	(0.311)	0.041	0.067
49	4.08	0.20	0.108	(0.309)	0.041	0.067
50	4.17	0.20	0.108	(0.308)	0.041	0.067
51	4.25	0.20	0.108	(0.307)	0.041	0.067
52	4.33	0.23	0.126	(0.305)	0.048	0.078
53	4.42	0.23	0.126	(0.304)	0.048	0.078
54	4.50	0.23	0.126	(0.303)	0.048	0.078
55	4.58	0.23	0.126	(0.301)	0.048	0.078
56	4.67	0.23	0.126	(0.300)	0.048	0.078
57	4.75	0.23	0.126	(0.299)	0.048	0.078
58	4.83	0.27	0.144	(0.298)	0.055	0.089
59	4.92	0.27	0.144	(0.296)	0.055	0.089
60	5.00	0.27	0.144	(0.295)	0.055	0.089
61	5.08	0.20	0.108	(0.294)	0.041	0.067
62	5.17	0.20	0.108	(0.292)	0.041	0.067
63	5.25	0.20	0.108	(0.291)	0.041	0.067
64	5.33	0.23	0.126	(0.290)	0.048	0.078
65	5.42	0.23	0.126	(0.289)	0.048	0.078
66	5.50	0.23	0.126	(0.287)	0.048	0.078
67	5.58	0.27	0.144	(0.286)	0.055	0.089
68	5.67	0.27	0.144	(0.285)	0.055	0.089
69	5.75	0.27	0.144	(0.284)	0.055	0.089
70	5.83	0.27	0.144	(0.282)	0.055	0.089
71	5.92	0.27	0.144	(0.281)	0.055	0.089
72	6.00	0.27	0.144	(0.280)	0.055	0.089
73	6.08	0.30	0.162	(0.279)	0.062	0.100
74	6.17	0.30	0.162	(0.277)	0.062	0.100

75	6.25	0.30	0.162	(0.276)	0.062	0.100
76	6.33	0.30	0.162	(0.275)	0.062	0.100
77	6.42	0.30	0.162	(0.274)	0.062	0.100
78	6.50	0.30	0.162	(0.272)	0.062	0.100
79	6.58	0.33	0.180	(0.271)	0.068	0.112
80	6.67	0.33	0.180	(0.270)	0.068	0.112
81	6.75	0.33	0.180	(0.269)	0.068	0.112
82	6.83	0.33	0.180	(0.268)	0.068	0.112
83	6.92	0.33	0.180	(0.266)	0.068	0.112
84	7.00	0.33	0.180	(0.265)	0.068	0.112
85	7.08	0.33	0.180	(0.264)	0.068	0.112
86	7.17	0.33	0.180	(0.263)	0.068	0.112
87	7.25	0.33	0.180	(0.262)	0.068	0.112
88	7.33	0.37	0.198	(0.260)	0.075	0.123
89	7.42	0.37	0.198	(0.259)	0.075	0.123
90	7.50	0.37	0.198	(0.258)	0.075	0.123
91	7.58	0.40	0.216	(0.257)	0.082	0.134
92	7.67	0.40	0.216	(0.256)	0.082	0.134
93	7.75	0.40	0.216	(0.254)	0.082	0.134
94	7.83	0.43	0.234	(0.253)	0.089	0.145
95	7.92	0.43	0.234	(0.252)	0.089	0.145
96	8.00	0.43	0.234	(0.251)	0.089	0.145
97	8.08	0.50	0.270	(0.250)	0.103	0.167
98	8.17	0.50	0.270	(0.249)	0.103	0.167
99	8.25	0.50	0.270	(0.247)	0.103	0.167
100	8.33	0.50	0.270	(0.246)	0.103	0.167
101	8.42	0.50	0.270	(0.245)	0.103	0.167
102	8.50	0.50	0.270	(0.244)	0.103	0.167
103	8.58	0.53	0.288	(0.243)	0.109	0.179
104	8.67	0.53	0.288	(0.242)	0.109	0.179
105	8.75	0.53	0.288	(0.241)	0.109	0.179
106	8.83	0.57	0.306	(0.239)	0.116	0.190
107	8.92	0.57	0.306	(0.238)	0.116	0.190
108	9.00	0.57	0.306	(0.237)	0.116	0.190
109	9.08	0.63	0.342	(0.236)	0.130	0.212
110	9.17	0.63	0.342	(0.235)	0.130	0.212
111	9.25	0.63	0.342	(0.234)	0.130	0.212
112	9.33	0.67	0.360	(0.233)	0.137	0.223
113	9.42	0.67	0.360	(0.232)	0.137	0.223
114	9.50	0.67	0.360	(0.230)	0.137	0.223
115	9.58	0.70	0.378	(0.229)	0.144	0.234
116	9.67	0.70	0.378	(0.228)	0.144	0.234
117	9.75	0.70	0.378	(0.227)	0.144	0.234
118	9.83	0.73	0.396	(0.226)	0.150	0.246
119	9.92	0.73	0.396	(0.225)	0.150	0.246
120	10.00	0.73	0.396	(0.224)	0.150	0.246
121	10.08	0.50	0.270	(0.223)	0.103	0.167
122	10.17	0.50	0.270	(0.222)	0.103	0.167
123	10.25	0.50	0.270	(0.221)	0.103	0.167
124	10.33	0.50	0.270	(0.220)	0.103	0.167
125	10.42	0.50	0.270	(0.218)	0.103	0.167
126	10.50	0.50	0.270	(0.217)	0.103	0.167
127	10.58	0.67	0.360	(0.216)	0.137	0.223
128	10.67	0.67	0.360	(0.215)	0.137	0.223
129	10.75	0.67	0.360	(0.214)	0.137	0.223
130	10.83	0.67	0.360	(0.213)	0.137	0.223
131	10.92	0.67	0.360	(0.212)	0.137	0.223
132	11.00	0.67	0.360	(0.211)	0.137	0.223
133	11.08	0.63	0.342	(0.210)	0.130	0.212
134	11.17	0.63	0.342	(0.209)	0.130	0.212
135	11.25	0.63	0.342	(0.208)	0.130	0.212
136	11.33	0.63	0.342	(0.207)	0.130	0.212
137	11.42	0.63	0.342	(0.206)	0.130	0.212
138	11.50	0.63	0.342	(0.205)	0.130	0.212
139	11.58	0.57	0.306	(0.204)	0.116	0.190
140	11.67	0.57	0.306	(0.203)	0.116	0.190
141	11.75	0.57	0.306	(0.202)	0.116	0.190
142	11.83	0.60	0.324	(0.201)	0.123	0.201
143	11.92	0.60	0.324	(0.200)	0.123	0.201
144	12.00	0.60	0.324	(0.199)	0.123	0.201
145	12.08	0.83	0.450	(0.198)	0.171	0.279
146	12.17	0.83	0.450	(0.197)	0.171	0.279
147	12.25	0.83	0.450	(0.196)	0.171	0.279
148	12.33	0.87	0.468	(0.195)	0.178	0.290
149	12.42	0.87	0.468	(0.194)	0.178	0.290
150	12.50	0.87	0.468	(0.193)	0.178	0.290
151	12.58	0.93	0.504	(0.192)	0.192	0.312
152	12.67	0.93	0.504	0.191	(0.192)	0.313
153	12.75	0.93	0.504	0.190	(0.192)	0.314
154	12.83	0.97	0.522	0.189	(0.198)	0.333
155	12.92	0.97	0.522	0.188	(0.198)	0.334
156	13.00	0.97	0.522	0.187	(0.198)	0.335
157	13.08	1.13	0.612	0.186	(0.233)	0.426
158	13.17	1.13	0.612	0.185	(0.233)	0.427
159	13.25	1.13	0.612	0.184	(0.233)	0.428
160	13.33	1.13	0.612	0.183	(0.233)	0.429
161	13.42	1.13	0.612	0.182	(0.233)	0.429

162	13.50	1.13	0.612		0.182	(0.233)	0.430
163	13.58	0.77	0.414	(	0.181)	0.157	0.257
164	13.67	0.77	0.414	(	0.180)	0.157	0.257
165	13.75	0.77	0.414	(	0.179)	0.157	0.257
166	13.83	0.77	0.414	(	0.178)	0.157	0.257
167	13.92	0.77	0.414	(	0.177)	0.157	0.257
168	14.00	0.77	0.414	(	0.176)	0.157	0.257
169	14.08	0.90	0.486		0.175	(0.185)	0.311
170	14.17	0.90	0.486		0.174	(0.185)	0.312
171	14.25	0.90	0.486		0.173	(0.185)	0.313
172	14.33	0.87	0.468		0.173	(0.178)	0.295
173	14.42	0.87	0.468		0.172	(0.178)	0.296
174	14.50	0.87	0.468		0.171	(0.178)	0.297
175	14.58	0.87	0.468		0.170	(0.178)	0.298
176	14.67	0.87	0.468		0.169	(0.178)	0.299
177	14.75	0.87	0.468		0.168	(0.178)	0.300
178	14.83	0.83	0.450		0.167	(0.171)	0.283
179	14.92	0.83	0.450		0.166	(0.171)	0.284
180	15.00	0.83	0.450		0.166	(0.171)	0.284
181	15.08	0.80	0.432	(	0.165)	0.164	0.268
182	15.17	0.80	0.432		0.164	(0.164)	0.268
183	15.25	0.80	0.432		0.163	(0.164)	0.269
184	15.33	0.77	0.414	(	0.162)	0.157	0.257
185	15.42	0.77	0.414	(	0.161)	0.157	0.257
186	15.50	0.77	0.414	(	0.161)	0.157	0.257
187	15.58	0.63	0.342	(	0.160)	0.130	0.212
188	15.67	0.63	0.342	(	0.159)	0.130	0.212
189	15.75	0.63	0.342	(	0.158)	0.130	0.212
190	15.83	0.63	0.342	(	0.157)	0.130	0.212
191	15.92	0.63	0.342	(	0.156)	0.130	0.212
192	16.00	0.63	0.342	(	0.156)	0.130	0.212
193	16.08	0.13	0.072	(	0.155)	0.027	0.045
194	16.17	0.13	0.072	(	0.154)	0.027	0.045
195	16.25	0.13	0.072	(	0.153)	0.027	0.045
196	16.33	0.13	0.072	(	0.153)	0.027	0.045
197	16.42	0.13	0.072	(	0.152)	0.027	0.045
198	16.50	0.13	0.072	(	0.151)	0.027	0.045
199	16.58	0.10	0.054	(	0.150)	0.021	0.033
200	16.67	0.10	0.054	(	0.149)	0.021	0.033
201	16.75	0.10	0.054	(	0.149)	0.021	0.033
202	16.83	0.10	0.054	(	0.148)	0.021	0.033
203	16.92	0.10	0.054	(	0.147)	0.021	0.033
204	17.00	0.10	0.054	(	0.146)	0.021	0.033
205	17.08	0.17	0.090	(	0.146)	0.034	0.056
206	17.17	0.17	0.090	(	0.145)	0.034	0.056
207	17.25	0.17	0.090	(	0.144)	0.034	0.056
208	17.33	0.17	0.090	(	0.143)	0.034	0.056
209	17.42	0.17	0.090	(	0.143)	0.034	0.056
210	17.50	0.17	0.090	(	0.142)	0.034	0.056
211	17.58	0.17	0.090	(	0.141)	0.034	0.056
212	17.67	0.17	0.090	(	0.141)	0.034	0.056
213	17.75	0.17	0.090	(	0.140)	0.034	0.056
214	17.83	0.13	0.072	(	0.139)	0.027	0.045
215	17.92	0.13	0.072	(	0.139)	0.027	0.045
216	18.00	0.13	0.072	(	0.138)	0.027	0.045
217	18.08	0.13	0.072	(	0.137)	0.027	0.045
218	18.17	0.13	0.072	(	0.137)	0.027	0.045
219	18.25	0.13	0.072	(	0.136)	0.027	0.045
220	18.33	0.13	0.072	(	0.135)	0.027	0.045
221	18.42	0.13	0.072	(	0.135)	0.027	0.045
222	18.50	0.13	0.072	(	0.134)	0.027	0.045
223	18.58	0.10	0.054	(	0.133)	0.021	0.033
224	18.67	0.10	0.054	(	0.133)	0.021	0.033
225	18.75	0.10	0.054	(	0.132)	0.021	0.033
226	18.83	0.07	0.036	(	0.131)	0.014	0.022
227	18.92	0.07	0.036	(	0.131)	0.014	0.022
228	19.00	0.07	0.036	(	0.130)	0.014	0.022
229	19.08	0.10	0.054	(	0.129)	0.021	0.033
230	19.17	0.10	0.054	(	0.129)	0.021	0.033
231	19.25	0.10	0.054	(	0.128)	0.021	0.033
232	19.33	0.13	0.072	(	0.128)	0.027	0.045
233	19.42	0.13	0.072	(	0.127)	0.027	0.045
234	19.50	0.13	0.072	(	0.126)	0.027	0.045
235	19.58	0.10	0.054	(	0.126)	0.021	0.033
236	19.67	0.10	0.054	(	0.125)	0.021	0.033
237	19.75	0.10	0.054	(	0.125)	0.021	0.033
238	19.83	0.07	0.036	(	0.124)	0.014	0.022
239	19.92	0.07	0.036	(	0.124)	0.014	0.022
240	20.00	0.07	0.036	(	0.123)	0.014	0.022
241	20.08	0.10	0.054	(	0.123)	0.021	0.033
242	20.17	0.10	0.054	(	0.122)	0.021	0.033
243	20.25	0.10	0.054	(	0.121)	0.021	0.033
244	20.33	0.10	0.054	(	0.121)	0.021	0.033
245	20.42	0.10	0.054	(	0.120)	0.021	0.033
246	20.50	0.10	0.054	(	0.120)	0.021	0.033
247	20.58	0.10	0.054	(	0.119)	0.021	0.033
248	20.67	0.10	0.054	(	0.119)	0.021	0.033

249	20.75	0.10	0.054	(	0.118)	0.021	0.033
250	20.83	0.07	0.036	(	0.118)	0.014	0.022
251	20.92	0.07	0.036	(	0.117)	0.014	0.022
252	21.00	0.07	0.036	(	0.117)	0.014	0.022
253	21.08	0.10	0.054	(	0.117)	0.021	0.033
254	21.17	0.10	0.054	(	0.116)	0.021	0.033
255	21.25	0.10	0.054	(	0.116)	0.021	0.033
256	21.33	0.07	0.036	(	0.115)	0.014	0.022
257	21.42	0.07	0.036	(	0.115)	0.014	0.022
258	21.50	0.07	0.036	(	0.114)	0.014	0.022
259	21.58	0.10	0.054	(	0.114)	0.021	0.033
260	21.67	0.10	0.054	(	0.113)	0.021	0.033
261	21.75	0.10	0.054	(	0.113)	0.021	0.033
262	21.83	0.07	0.036	(	0.113)	0.014	0.022
263	21.92	0.07	0.036	(	0.112)	0.014	0.022
264	22.00	0.07	0.036	(	0.112)	0.014	0.022
265	22.08	0.10	0.054	(	0.112)	0.021	0.033
266	22.17	0.10	0.054	(	0.111)	0.021	0.033
267	22.25	0.10	0.054	(	0.111)	0.021	0.033
268	22.33	0.07	0.036	(	0.110)	0.014	0.022
269	22.42	0.07	0.036	(	0.110)	0.014	0.022
270	22.50	0.07	0.036	(	0.110)	0.014	0.022
271	22.58	0.07	0.036	(	0.110)	0.014	0.022
272	22.67	0.07	0.036	(	0.109)	0.014	0.022
273	22.75	0.07	0.036	(	0.109)	0.014	0.022
274	22.83	0.07	0.036	(	0.109)	0.014	0.022
275	22.92	0.07	0.036	(	0.108)	0.014	0.022
276	23.00	0.07	0.036	(	0.108)	0.014	0.022
277	23.08	0.07	0.036	(	0.108)	0.014	0.022
278	23.17	0.07	0.036	(	0.108)	0.014	0.022
279	23.25	0.07	0.036	(	0.107)	0.014	0.022
280	23.33	0.07	0.036	(	0.107)	0.014	0.022
281	23.42	0.07	0.036	(	0.107)	0.014	0.022
282	23.50	0.07	0.036	(	0.107)	0.014	0.022
283	23.58	0.07	0.036	(	0.107)	0.014	0.022
284	23.67	0.07	0.036	(	0.106)	0.014	0.022
285	23.75	0.07	0.036	(	0.106)	0.014	0.022
286	23.83	0.07	0.036	(	0.106)	0.014	0.022
287	23.92	0.07	0.036	(	0.106)	0.014	0.022
288	24.00	0.07	0.036	(	0.106)	0.014	0.022

(Loss Rate Not Used)

Sum = 100.0 Sum = 33.9

Flood volume = Effective rainfall 2.82(In)
times area 8.3(Ac.)/[(In)/(Ft.)] = 2.0(Ac.Ft)
Total soil loss = 1.68(In)
Total soil loss = 1.163(Ac.Ft)
Total rainfall = 4.50(In)
Flood volume = 85410.4 Cubic Feet
Total soil loss = 50657.9 Cubic Feet

Peak flow rate of this hydrograph = 3.611(CFS)

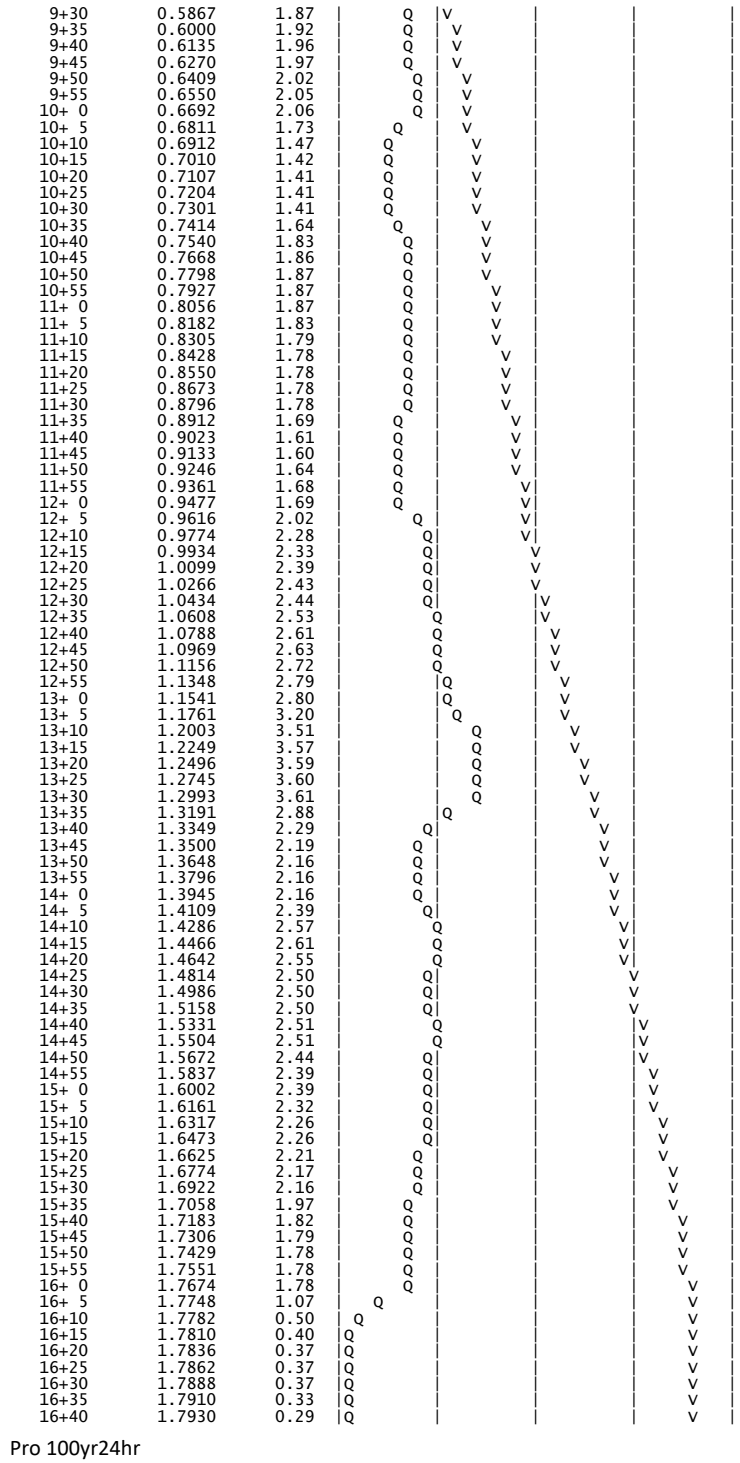
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24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0007	0.09	Q				
0+10	0.0018	0.17	Q				
0+15	0.0031	0.18	Q				
0+20	0.0047	0.23	Q				
0+25	0.0066	0.27	VQ				
0+30	0.0085	0.28	VQ				
0+35	0.0104	0.28	VQ				
0+40	0.0124	0.28	VQ				
0+45	0.0143	0.28	VQ				
0+50	0.0166	0.33	VQ				
0+55	0.0191	0.37	VQ				
1+ 0	0.0217	0.37	VQ				
1+ 5	0.0239	0.33	VQ				
1+10	0.0259	0.29	VQ				
1+15	0.0279	0.28	VQ				
1+20	0.0298	0.28	VQ				
1+25	0.0317	0.28	VQ				
1+30	0.0337	0.28	VQ				
1+35	0.0356	0.28	VQ				
1+40	0.0376	0.28	VQ				
1+45	0.0395	0.28	VQ				
1+50	0.0418	0.33	VQ				
1+55	0.0443	0.37	VQ				
2+ 0	0.0469	0.37	VQ				
2+ 5	0.0494	0.37	|Q				
2+10	0.0520	0.37	|Q				

2+15	0.0546	0.37	Q				
2+20	0.0572	0.37	Q				
2+25	0.0598	0.37	Q				
2+30	0.0623	0.37	Q				
2+35	0.0653	0.42	Q				
2+40	0.0684	0.46	Q				
2+45	0.0716	0.47	Q				
2+50	0.0749	0.47	Q				
2+55	0.0781	0.47	Q				
3+ 0	0.0813	0.47	Q				
3+ 5	0.0845	0.47	Q				
3+10	0.0878	0.47	Q				
3+15	0.0910	0.47	Q				
3+20	0.0942	0.47	Q				
3+25	0.0975	0.47	Q				
3+30	0.1007	0.47	QV				
3+35	0.1039	0.47	QV				
3+40	0.1071	0.47	QV				
3+45	0.1104	0.47	QV				
3+50	0.1139	0.52	Q				
3+55	0.1177	0.55	Q				
4+ 0	0.1216	0.56	Q				
4+ 5	0.1255	0.56	Q				
4+10	0.1293	0.56	Q				
4+15	0.1332	0.56	Q				
4+20	0.1374	0.61	Q				
4+25	0.1419	0.65	Q				
4+30	0.1464	0.65	Q				
4+35	0.1509	0.66	QV				
4+40	0.1554	0.66	QV				
4+45	0.1599	0.66	QV				
4+50	0.1648	0.70	QV				
4+55	0.1699	0.74	QV				
5+ 0	0.1750	0.75	QV				
5+ 5	0.1796	0.65	QV				
5+10	0.1835	0.58	QV				
5+15	0.1874	0.57	QV				
5+20	0.1916	0.61	QV				
5+25	0.1961	0.65	Q V				
5+30	0.2006	0.65	Q V				
5+35	0.2055	0.70	Q V				
5+40	0.2106	0.74	Q V				
5+45	0.2157	0.75	Q V				
5+50	0.2209	0.75	Q V				
5+55	0.2260	0.75	Q V				
6+ 0	0.2312	0.75	Q V				
6+ 5	0.2367	0.80	QV				
6+10	0.2424	0.84	QV				
6+15	0.2482	0.84	Q V				
6+20	0.2541	0.84	Q V				
6+25	0.2599	0.84	Q V				
6+30	0.2657	0.84	Q V				
6+35	0.2718	0.89	Q V				
6+40	0.2782	0.93	Q V				
6+45	0.2846	0.94	Q V				
6+50	0.2911	0.94	Q V				
6+55	0.2976	0.94	Q V				
7+ 0	0.3040	0.94	Q V				
7+ 5	0.3105	0.94	Q V				
7+10	0.3169	0.94	Q V				
7+15	0.3234	0.94	Q V				
7+20	0.3302	0.98	Q V				
7+25	0.3372	1.02	Q V				
7+30	0.3443	1.03	Q V				
7+35	0.3517	1.08	Q V				
7+40	0.3594	1.12	Q V				
7+45	0.3671	1.12	Q V				
7+50	0.3752	1.17	Q V				
7+55	0.3836	1.21	Q V				
8+ 0	0.3919	1.22	Q V				
8+ 5	0.4010	1.31	Q V				
8+10	0.4105	1.39	Q V				
8+15	0.4202	1.40	Q V				
8+20	0.4299	1.41	Q V				
8+25	0.4396	1.41	Q V				
8+30	0.4492	1.41	Q V				
8+35	0.4593	1.45	Q V				
8+40	0.4695	1.49	Q V				
8+45	0.4798	1.50	Q V				
8+50	0.4905	1.55	Q V				
8+55	0.5014	1.58	Q V				
9+ 0	0.5124	1.59	Q V				
9+ 5	0.5240	1.69	Q V				
9+10	0.5361	1.76	Q V				
9+15	0.5484	1.78	Q V				
9+20	0.5610	1.83	Q V				
9+25	0.5738	1.87	Q V				



9+30	0.5867	1.87	
9+35	0.6000	1.92	
9+40	0.6135	1.96	
9+45	0.6270	1.97	
9+50	0.6409	2.02	
9+55	0.6550	2.05	
10+ 0	0.6692	2.06	
10+ 5	0.6811	1.73	
10+10	0.6912	1.47	
10+15	0.7010	1.42	
10+20	0.7107	1.41	
10+25	0.7204	1.41	
10+30	0.7301	1.41	
10+35	0.7414	1.64	
10+40	0.7540	1.83	
10+45	0.7668	1.86	
10+50	0.7798	1.87	
10+55	0.7927	1.87	
11+ 0	0.8056	1.87	
11+ 5	0.8182	1.83	
11+10	0.8305	1.79	
11+15	0.8428	1.78	
11+20	0.8550	1.78	
11+25	0.8673	1.78	
11+30	0.8796	1.78	
11+35	0.8912	1.69	
11+40	0.9023	1.61	
11+45	0.9133	1.60	
11+50	0.9246	1.64	
11+55	0.9361	1.68	
12+ 0	0.9477	1.69	
12+ 5	0.9616	2.02	
12+10	0.9774	2.28	
12+15	0.9934	2.33	
12+20	1.0099	2.39	
12+25	1.0266	2.43	
12+30	1.0434	2.44	
12+35	1.0608	2.53	
12+40	1.0788	2.61	
12+45	1.0969	2.63	
12+50	1.1156	2.72	
12+55	1.1348	2.79	
13+ 0	1.1541	2.80	
13+ 5	1.1761	3.20	
13+10	1.2003	3.51	
13+15	1.2249	3.57	
13+20	1.2496	3.59	
13+25	1.2745	3.60	
13+30	1.2993	3.61	
13+35	1.3191	2.88	
13+40	1.3349	2.29	
13+45	1.3500	2.19	
13+50	1.3648	2.16	
13+55	1.3796	2.16	
14+ 0	1.3945	2.16	
14+ 5	1.4109	2.39	
14+10	1.4286	2.57	
14+15	1.4466	2.61	
14+20	1.4642	2.55	
14+25	1.4814	2.50	
14+30	1.4986	2.50	
14+35	1.5158	2.50	
14+40	1.5331	2.51	
14+45	1.5504	2.51	
14+50	1.5672	2.44	
14+55	1.5837	2.39	
15+ 0	1.6002	2.39	
15+ 5	1.6161	2.32	
15+10	1.6317	2.26	
15+15	1.6473	2.26	
15+20	1.6625	2.21	
15+25	1.6774	2.17	
15+30	1.6922	2.16	
15+35	1.7058	1.97	
15+40	1.7183	1.82	
15+45	1.7306	1.79	
15+50	1.7429	1.78	
15+55	1.7551	1.78	
16+ 0	1.7674	1.78	
16+ 5	1.7748	1.07	
16+10	1.7782	0.50	
16+15	1.7810	0.40	
16+20	1.7836	0.37	
16+25	1.7862	0.37	
16+30	1.7888	0.37	
16+35	1.7910	0.33	
16+40	1.7930	0.29	

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16+45       1.7950      0.28  |Q        |         |         |     V   |
16+50       1.7969      0.28  |Q        |         |         |     V   |
16+55       1.7988      0.28  |Q        |         |         |     V   |
17+ 0       1.8008      0.28  |Q        |         |         |     V   |
17+ 5       1.8034      0.38  |Q        |         |         |     V   |
17+10       1.8065      0.45  |Q        |         |         |     V   |
17+15       1.8097      0.46  |Q        |         |         |     V   |
17+20       1.8129      0.47  |Q        |         |         |     V   |
17+25       1.8161      0.47  |Q        |         |         |      V  |
17+30       1.8194      0.47  |Q        |         |         |      V  |
17+35       1.8226      0.47  |Q        |         |         |      V  |
17+40       1.8258      0.47  |Q        |         |         |      V  |
17+45       1.8290      0.47  |Q        |         |         |      V  |
17+50       1.8319      0.42  |Q        |         |         |      V  |
17+55       1.8346      0.38  |Q        |         |         |      V  |
18+ 0       1.8372      0.38  |Q        |         |         |      V  |
18+ 5       1.8398      0.37  |Q        |         |         |      V  |
18+10       1.8423      0.37  |Q        |         |         |      V  |
18+15       1.8449      0.37  |Q        |         |         |      V  |
18+20       1.8475      0.37  |Q        |         |         |      V  |
18+25       1.8501      0.37  |Q        |         |         |      V  |
18+30       1.8527      0.37  |Q        |         |         |      V  |
18+35       1.8549      0.33  |Q        |         |         |      V  |
18+40       1.8569      0.29  |Q        |         |         |      V  |
18+45       1.8589      0.28  |Q        |         |         |      V  |
18+50       1.8605      0.23  Q        |         |         |      V  |
18+55       1.8618      0.20  Q        |         |         |      V  |
19+ 0       1.8631      0.19  Q        |         |         |       V |
19+ 5       1.8648      0.23  Q        |         |         |       V |
19+10       1.8666      0.27  |Q       |         |         |       V |
19+15       1.8686      0.28  |Q       |         |         |       V |
19+20       1.8708      0.33  |Q       |         |         |       V |
19+25       1.8733      0.37  |Q       |         |         |       V |
19+30       1.8759      0.37  |Q       |         |         |       V |
19+35       1.8782      0.33  |Q       |         |         |       V |
19+40       1.8802      0.29  |Q       |         |         |       V |
19+45       1.8821      0.28  |Q       |         |         |       V |
19+50       1.8837      0.23  Q        |         |         |       V |
19+55       1.8851      0.20  Q        |         |         |       V |
20+ 0       1.8864      0.19  Q        |         |         |       V |
20+ 5       1.8880      0.23  Q        |         |         |       V |
20+10       1.8899      0.27  |Q       |         |         |       V |
20+15       1.8918      0.28  |Q       |         |         |       V |
20+20       1.8937      0.28  |Q       |         |         |       V |
20+25       1.8957      0.28  |Q       |         |         |       V |
20+30       1.8976      0.28  |Q       |         |         |       V |
20+35       1.8995      0.28  |Q       |         |         |       V |
20+40       1.9015      0.28  |Q       |         |         |       V |
20+45       1.9034      0.28  |Q       |         |         |       V |
20+50       1.9050      0.23  Q        |         |         |       V |
20+55       1.9064      0.20  Q        |         |         |       V |
21+ 0       1.9077      0.19  Q        |         |         |       V |
21+ 5       1.9093      0.23  Q        |         |         |       V |
21+10       1.9112      0.27  |Q       |         |         |       V |
21+15       1.9131      0.28  |Q       |         |         |        V|
21+20       1.9147      0.23  Q        |         |         |        V|
21+25       1.9161      0.20  Q        |         |         |        V|
21+30       1.9174      0.19  Q        |         |         |        V|
21+35       1.9190      0.23  Q        |         |         |        V|
21+40       1.9209      0.27  |Q       |         |         |        V|
21+45       1.9228      0.28  |Q       |         |         |        V|
21+50       1.9244      0.23  Q        |         |         |        V|
21+55       1.9257      0.20  Q        |         |         |        V|
22+ 0       1.9270      0.19  Q        |         |         |        V|
22+ 5       1.9287      0.23  Q        |         |         |        V|
22+10       1.9305      0.27  |Q       |         |         |        V|
22+15       1.9325      0.28  |Q       |         |         |        V|
22+20       1.9341      0.23  Q        |         |         |        V|
22+25       1.9354      0.20  Q        |         |         |        V|
22+30       1.9367      0.19  Q        |         |         |        V|
22+35       1.9380      0.19  Q        |         |         |        V|
22+40       1.9393      0.19  Q        |         |         |        V|
22+45       1.9406      0.19  Q        |         |         |        V|
22+50       1.9419      0.19  Q        |         |         |        V|
22+55       1.9432      0.19  Q        |         |         |        V|
23+ 0       1.9445      0.19  Q        |         |         |        V|
23+ 5       1.9458      0.19  Q        |         |         |        V|
23+10       1.9471      0.19  Q        |         |         |        V|
23+15       1.9483      0.19  Q        |         |         |        V|
23+20       1.9496      0.19  Q        |         |         |        V|
23+25       1.9509      0.19  Q        |         |         |        V|
23+30       1.9522      0.19  Q        |         |         |        V|
23+35       1.9535      0.19  Q        |         |         |        V|
23+40       1.9548      0.19  Q        |         |         |        V|
23+45       1.9561      0.19  Q        |         |         |        V|
23+50       1.9574      0.19  Q        |         |         |        V|
23+55       1.9587      0.19  Q        |         |         |        V|
```

```
   24+ 0       1.9600      0.19  Q          |          |          |        V|
   24+ 5       1.9606      0.09  Q          |          |          |        V|
   24+10       1.9607      0.02  Q          |          |          |        V|
   24+15       1.9608      0.00  Q          |          |          |         V
-------------------------------------------------------------------------------
```

```
       U n i t   H y d r o g r a p h   A n a l y s i s

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       9.87(Ac.)  =      0.015 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       9.87(Ac.)  =      0.015 Sq. Mi.
Length along longest watercourse =    1180.00(Ft.)
Length along longest watercourse measured to centroid =     590.00(Ft.)
Length along longest watercourse =      0.223 Mi.
Length along longest watercourse measured to centroid =      0.112 Mi.
Difference in elevation =      18.60(Ft.)
Slope along watercourse =     83.2271 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time =    0.038 Hr.
Lag time =     2.29 Min.
25% of lag time =     0.57 Min.
40% of lag time =     0.92 Min.
Unit time =     5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            0.50                 4.93

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            1.20                11.84

STORM EVENT (YEAR) =    2.00
Area Averaged 2-Year Rainfall =    0.500(In)
Area Averaged 100-Year Rainfall =    1.200(In)

Point rain (area averaged) =    0.500(In)
Areal adjustment factor =   99.99 %
Adjusted average point rain =    0.500(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     9.870           56.00          0.650
 Total Area Entered =      9.87(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-1     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
56.0  36.0      0.706     0.650        0.293       1.000      0.293
                                                 Sum (F) =   0.293
Area averaged mean soil loss (F) (In/Hr) =  0.293
Minimum soil loss rate ((In/Hr)) =  0.146
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.380
------------------------------------------------------------------------
Slope of intensity-duration curve for a 1 hour storm =0.5000
------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
------------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
```

```
        (hrs)                          Graph %            (CFS)
      ------------------------------------------------------------------------
         1   0.083        217.936         46.337              4.609
         2   0.167        435.872         42.135              4.191
         3   0.250        653.809          8.112              0.807
         4   0.333        871.745          3.415              0.340
                                  Sum = 100.000   Sum=         9.947
------------------------------------------------------------------------------


 The following loss rate calculations reflect use of the minimum calculated loss
 rate subtracted from the Storm Rain to produce the maximum Effective Rain value

  Unit Time   Pattern   Storm Rain     Loss rate(In./Hr)     Effective
       (Hr.)  Percent   (In/Hr)         Max    |   Low        (In/Hr)
    1   0.08     4.20      0.252       (  0.293)       0.096        0.156
    2   0.17     4.30      0.258       (  0.293)       0.098        0.160
    3   0.25     5.00      0.300       (  0.293)       0.114        0.186
    4   0.33     5.00      0.300       (  0.293)       0.114        0.186
    5   0.42     5.80      0.348       (  0.293)       0.132        0.216
    6   0.50     6.50      0.390       (  0.293)       0.148        0.242
    7   0.58     7.40      0.444       (  0.293)       0.169        0.275
    8   0.67     8.60      0.516       (  0.293)       0.196        0.320
    9   0.75    12.30      0.738       (  0.293)       0.280        0.458
   10   0.83    29.10      1.746          0.293    (  0.663)        1.453
   11   0.92     6.80      0.408       (  0.293)       0.155        0.253
   12   1.00     5.00      0.300       (  0.293)       0.114        0.186
             (Loss Rate Not Used)
     Sum =     100.0                                  Sum =     4.1
       Flood volume = Effective rainfall      0.34(In)
        times area       9.9(Ac.)/[(In)/(Ft.)] =       0.3(Ac.Ft)
       Total soil loss =      0.16(In)
       Total soil loss =     0.131(Ac.Ft)
       Total rainfall =      0.50(In)
       Flood volume =       12211.7 Cubic Feet
       Total soil loss =        5700.7 Cubic Feet
       ---------------------------------------------------------------------
        Peak flow rate of this hydrograph =      8.970(CFS)
       ---------------------------------------------------------------------
       +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                          1 - 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   5   Minute intervals ((CFS))

       ---------------------------------------------------------------------
  Time(h+m) Volume Ac.Ft   Q(CFS)  0        2.5       5.0       7.5      10.0
  ------------------------------------------------------------------------
    0+ 5       0.0050      0.72  V Q       |         |         |         |
    0+10       0.0146      1.39  | V  Q    |         |         |         |
    0+15       0.0259      1.65  |  V  Q   |         |         |         |
    0+20       0.0385      1.82  |    V Q  |         |         |         |
    0+25       0.0521      1.98  |      Q  |         |         |         |
    0+30       0.0675      2.23  |       QV|         |         |         |
    0+35       0.0849      2.52  |         Q V       |         |         |
    0+40       0.1048      2.90  |          |Q  V     |         |         |
    0+45       0.1307      3.76  |          |    Q  V |         |         |
    0+50       0.1925      8.97  |          |         |      V  |    Q    |
    0+55       0.2457      7.74  |          |         |         Q    V    |
    1+ 0       0.2681      3.25  |          | Q       |         |      V  |
    1+ 5       0.2783      1.48  |    Q     |         |         |         V|
    1+10       0.2799      0.24  Q          |         |         |         V|
    1+15       0.2803      0.06  Q          |         |         |         V|
  ------------------------------------------------------------------------
```

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       U n i t   H y d r o g r a p h   A n a l y s i s

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       9.87(Ac.)  =      0.015 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       9.87(Ac.)  =      0.015 Sq. Mi.
Length along longest watercourse =    1180.00(Ft.)
Length along longest watercourse measured to centroid =     590.00(Ft.)
Length along longest watercourse =      0.223 Mi.
Length along longest watercourse measured to centroid =      0.112 Mi.
Difference in elevation =      18.60(Ft.)
Slope along watercourse =     83.2271 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time =    0.038 Hr.
Lag time =     2.29 Min.
25% of lag time =     0.57 Min.
40% of lag time =     0.92 Min.
Unit time =     5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            0.80                 7.90

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            1.90                18.75

STORM EVENT (YEAR) =    2.00
Area Averaged 2-Year Rainfall =    0.800(In)
Area Averaged 100-Year Rainfall =    1.900(In)

Point rain (area averaged) =    0.800(In)
Areal adjustment factor =  100.00 %
Adjusted average point rain =    0.800(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     9.870           56.00          0.650
 Total Area Entered =      9.87(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-1     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
56.0  36.0      0.706     0.650        0.293       1.000      0.293
                                                 Sum (F) =   0.293
Area averaged mean soil loss (F) (In/Hr) =  0.293
Minimum soil loss rate ((In/Hr)) =  0.146
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.380
------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
-------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
    (hrs)                          Graph %           (CFS)
------------------------------------------------------------------------
```

1	0.083	217.936	46.337	4.609
2	0.167	435.872	42.135	4.191
3	0.250	653.809	8.112	0.807
4	0.333	871.745	3.415	0.340
		Sum = 100.000	Sum=	9.947

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	1.30	0.125	(0.293)	0.047	0.077
2	0.17	1.30	0.125	(0.293)	0.047	0.077
3	0.25	1.10	0.106	(0.293)	0.040	0.065
4	0.33	1.50	0.144	(0.293)	0.055	0.089
5	0.42	1.50	0.144	(0.293)	0.055	0.089
6	0.50	1.80	0.173	(0.293)	0.066	0.107
7	0.58	1.50	0.144	(0.293)	0.055	0.089
8	0.67	1.80	0.173	(0.293)	0.066	0.107
9	0.75	1.80	0.173	(0.293)	0.066	0.107
10	0.83	1.50	0.144	(0.293)	0.055	0.089
11	0.92	1.60	0.154	(0.293)	0.058	0.095
12	1.00	1.80	0.173	(0.293)	0.066	0.107
13	1.08	2.20	0.211	(0.293)	0.080	0.131
14	1.17	2.20	0.211	(0.293)	0.080	0.131
15	1.25	2.20	0.211	(0.293)	0.080	0.131
16	1.33	2.00	0.192	(0.293)	0.073	0.119
17	1.42	2.60	0.250	(0.293)	0.095	0.155
18	1.50	2.70	0.259	(0.293)	0.098	0.161
19	1.58	2.40	0.230	(0.293)	0.088	0.143
20	1.67	2.70	0.259	(0.293)	0.098	0.161
21	1.75	3.30	0.317	(0.293)	0.120	0.196
22	1.83	3.10	0.298	(0.293)	0.113	0.185
23	1.92	2.90	0.278	(0.293)	0.106	0.173
24	2.00	3.00	0.288	(0.293)	0.109	0.179
25	2.08	3.10	0.298	(0.293)	0.113	0.185
26	2.17	4.20	0.403	(0.293)	0.153	0.250
27	2.25	5.00	0.480	(0.293)	0.182	0.298
28	2.33	3.50	0.336	(0.293)	0.128	0.208
29	2.42	6.80	0.653	(0.293)	0.248	0.405
30	2.50	7.30	0.701	(0.293)	0.266	0.434
31	2.58	8.20	0.787	0.293	(0.299)	0.494
32	2.67	5.90	0.566	(0.293)	0.215	0.351
33	2.75	2.00	0.192	(0.293)	0.073	0.119
34	2.83	1.80	0.173	(0.293)	0.066	0.107
35	2.92	1.80	0.173	(0.293)	0.066	0.107
36	3.00	0.60	0.058	(0.293)	0.022	0.036
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	6.0

Flood volume = Effective rainfall 0.50(In)
times area 9.9(Ac.)/[(In)/(Ft.)] = 0.4(Ac.Ft)
Total soil loss = 0.30(In)
Total soil loss = 0.250(Ac.Ft)
Total rainfall = 0.80(In)
Flood volume = 17788.3 Cubic Feet
Total soil loss = 10873.0 Cubic Feet

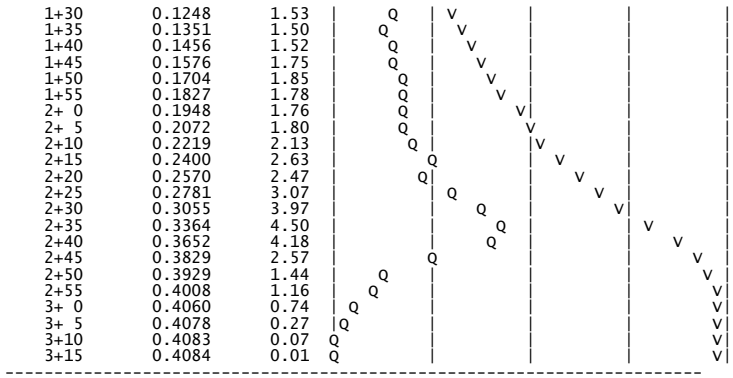
Peak flow rate of this hydrograph = 4.498(CFS)

++

3 - 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 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0025	0.36	VQ				
0+10	0.0071	0.68	V Q				
0+15	0.0119	0.69	|VQ				
0+20	0.0172	0.78	|V Q				
0+25	0.0232	0.87	| VQ				
0+30	0.0298	0.96	| VQ				
0+35	0.0365	0.96	| Q				
0+40	0.0432	0.99	| QV				
0+45	0.0505	1.05	| Q				
0+50	0.0572	0.98	| Q V				
0+55	0.0637	0.94	| Q V				
1+ 0	0.0706	1.00	| Q V				
1+ 5	0.0786	1.16	| Q V				
1+10	0.0873	1.27	| Q V				
1+15	0.0962	1.30	| Q V				
1+20	0.1048	1.25	| Q V				
1+25	0.1142	1.36	| Q |V				


1+30 0.1248 1.53
1+35 0.1351 1.50
1+40 0.1456 1.52
1+45 0.1576 1.75
1+50 0.1704 1.85
1+55 0.1827 1.78
2+ 0 0.1948 1.76
2+ 5 0.2072 1.80
2+10 0.2219 2.13
2+15 0.2400 2.63
2+20 0.2570 2.47
2+25 0.2781 3.07
2+30 0.3055 3.97
2+35 0.3364 4.50
2+40 0.3652 4.18
2+45 0.3829 2.57
2+50 0.3929 1.44
2+55 0.4008 1.16
3+ 0 0.4060 0.74
3+ 5 0.4078 0.27
3+10 0.4083 0.07
3+15 0.4084 0.01

```
       U n i t   H y d r o g r a p h   A n a l y s i s

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              Study date  03/01/22 File: pro1262.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------------
------------------------------------------------------------------------------
Drainage Area =       9.87(Ac.)  =      0.015 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       9.87(Ac.)  =      0.015 Sq. Mi.
Length along longest watercourse =    1180.00(Ft.)
Length along longest watercourse measured to centroid =     590.00(Ft.)
Length along longest watercourse =      0.223 Mi.
Length along longest watercourse measured to centroid =      0.112 Mi.
Difference in elevation =      18.60(Ft.)
Slope along watercourse =     83.2271 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time =    0.038 Hr.
Lag time =     2.29 Min.
25% of lag time =     0.57 Min.
40% of lag time =     0.92 Min.
Unit time =     5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            1.20                 11.84

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            2.50                 24.67

STORM EVENT (YEAR) =    2.00
Area Averaged 2-Year Rainfall =    1.200(In)
Area Averaged 100-Year Rainfall =    2.500(In)

Point rain (area averaged) =    1.200(In)
Areal adjustment factor =  100.00 %
Adjusted average point rain =    1.200(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     9.870           56.00          0.650
 Total Area Entered =      9.87(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-1     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
56.0  36.0      0.706     0.650        0.293       1.000      0.293
                                                 Sum (F) =   0.293
Area averaged mean soil loss (F) (In/Hr) =  0.293
Minimum soil loss rate ((In/Hr)) =  0.146
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.380
------------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
------------------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
    (hrs)                          Graph %           (CFS)
------------------------------------------------------------------------------
```

1	0.083	217.936	46.337	4.609
2	0.167	435.872	42.135	4.191
3	0.250	653.809	8.112	0.807
4	0.333	871.745	3.415	0.340
			Sum = 100.000 Sum=	9.947

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.072	(0.293)	0.027	0.045
2	0.17	0.60	0.086	(0.293)	0.033	0.054
3	0.25	0.60	0.086	(0.293)	0.033	0.054
4	0.33	0.60	0.086	(0.293)	0.033	0.054
5	0.42	0.60	0.086	(0.293)	0.033	0.054
6	0.50	0.70	0.101	(0.293)	0.038	0.062
7	0.58	0.70	0.101	(0.293)	0.038	0.062
8	0.67	0.70	0.101	(0.293)	0.038	0.062
9	0.75	0.70	0.101	(0.293)	0.038	0.062
10	0.83	0.70	0.101	(0.293)	0.038	0.062
11	0.92	0.70	0.101	(0.293)	0.038	0.062
12	1.00	0.80	0.115	(0.293)	0.044	0.071
13	1.08	0.80	0.115	(0.293)	0.044	0.071
14	1.17	0.80	0.115	(0.293)	0.044	0.071
15	1.25	0.80	0.115	(0.293)	0.044	0.071
16	1.33	0.80	0.115	(0.293)	0.044	0.071
17	1.42	0.80	0.115	(0.293)	0.044	0.071
18	1.50	0.80	0.115	(0.293)	0.044	0.071
19	1.58	0.80	0.115	(0.293)	0.044	0.071
20	1.67	0.80	0.115	(0.293)	0.044	0.071
21	1.75	0.80	0.115	(0.293)	0.044	0.071
22	1.83	0.80	0.115	(0.293)	0.044	0.071
23	1.92	0.80	0.115	(0.293)	0.044	0.071
24	2.00	0.90	0.130	(0.293)	0.049	0.080
25	2.08	0.80	0.115	(0.293)	0.044	0.071
26	2.17	0.90	0.130	(0.293)	0.049	0.080
27	2.25	0.90	0.130	(0.293)	0.049	0.080
28	2.33	0.90	0.130	(0.293)	0.049	0.080
29	2.42	0.90	0.130	(0.293)	0.049	0.080
30	2.50	0.90	0.130	(0.293)	0.049	0.080
31	2.58	0.90	0.130	(0.293)	0.049	0.080
32	2.67	0.90	0.130	(0.293)	0.049	0.080
33	2.75	1.00	0.144	(0.293)	0.055	0.089
34	2.83	1.00	0.144	(0.293)	0.055	0.089
35	2.92	1.00	0.144	(0.293)	0.055	0.089
36	3.00	1.00	0.144	(0.293)	0.055	0.089
37	3.08	1.00	0.144	(0.293)	0.055	0.089
38	3.17	1.10	0.158	(0.293)	0.060	0.098
39	3.25	1.10	0.158	(0.293)	0.060	0.098
40	3.33	1.10	0.158	(0.293)	0.060	0.098
41	3.42	1.20	0.173	(0.293)	0.066	0.107
42	3.50	1.30	0.187	(0.293)	0.071	0.116
43	3.58	1.40	0.202	(0.293)	0.077	0.125
44	3.67	1.40	0.202	(0.293)	0.077	0.125
45	3.75	1.50	0.216	(0.293)	0.082	0.134
46	3.83	1.50	0.216	(0.293)	0.082	0.134
47	3.92	1.60	0.230	(0.293)	0.088	0.143
48	4.00	1.60	0.230	(0.293)	0.088	0.143
49	4.08	1.70	0.245	(0.293)	0.093	0.152
50	4.17	1.80	0.259	(0.293)	0.098	0.161
51	4.25	1.90	0.274	(0.293)	0.104	0.170
52	4.33	2.00	0.288	(0.293)	0.109	0.179
53	4.42	2.10	0.302	(0.293)	0.115	0.187
54	4.50	2.10	0.302	(0.293)	0.115	0.187
55	4.58	2.20	0.317	(0.293)	0.120	0.196
56	4.67	2.30	0.331	(0.293)	0.126	0.205
57	4.75	2.40	0.346	(0.293)	0.131	0.214
58	4.83	2.40	0.346	(0.293)	0.131	0.214
59	4.92	2.50	0.360	(0.293)	0.137	0.223
60	5.00	2.60	0.374	(0.293)	0.142	0.232
61	5.08	3.10	0.446	(0.293)	0.170	0.277
62	5.17	3.60	0.518	(0.293)	0.197	0.321
63	5.25	3.90	0.562	(0.293)	0.213	0.348
64	5.33	4.20	0.605	(0.293)	0.230	0.375
65	5.42	4.70	0.677	(0.293)	0.257	0.420
66	5.50	5.60	0.806	0.293	(0.306)	0.513
67	5.58	1.90	0.274	(0.293)	0.104	0.170
68	5.67	0.90	0.130	(0.293)	0.049	0.080
69	5.75	0.60	0.086	(0.293)	0.033	0.054
70	5.83	0.50	0.072	(0.293)	0.027	0.045
71	5.92	0.30	0.043	(0.293)	0.016	0.027
72	6.00	0.20	0.029	(0.293)	0.011	0.018
		(Loss Rate Not Used)				
	Sum =	100.0			Sum =	8.9

```
Flood volume = Effective rainfall      0.75(In)
 times area       9.9(Ac.)/[(In)/(Ft.)] =       0.6(Ac.Ft)
Total soil loss =      0.45(In)
Total soil loss =     0.374(Ac.Ft)
Total rainfall =      1.20(In)
Flood volume =       26695.3 Cubic Feet
Total soil loss =       16297.0 Cubic Feet
--------------------------------------------------------------------------
 Peak flow rate of this hydrograph =      4.548(CFS)
--------------------------------------------------------------------------
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                      6 - 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   5   Minute intervals ((CFS))

--------------------------------------------------------------------------
Time(h+m) Volume Ac.Ft   Q(CFS)  0        2.5       5.0       7.5      10.0
--------------------------------------------------------------------------
  0+ 5       0.0014      0.21  Q         |         |         |         |
  0+10       0.0044      0.43  VQ        |         |         |         |
  0+15       0.0079      0.51  V Q       |         |         |         |
  0+20       0.0116      0.53  V Q       |         |         |         |
  0+25       0.0152      0.53  V Q       |         |         |         |
  0+30       0.0192      0.57  |VQ       |         |         |         |
  0+35       0.0234      0.61  |VQ       |         |         |         |
  0+40       0.0277      0.62  |VQ       |         |         |         |
  0+45       0.0319      0.62  | Q       |         |         |         |
  0+50       0.0362      0.62  | Q       |         |         |         |
  0+55       0.0405      0.62  | Q       |         |         |         |
  1+ 0       0.0451      0.66  | Q       |         |         |         |
  1+ 5       0.0499      0.70  | QV      |         |         |         |
  1+10       0.0548      0.71  | QV      |         |         |         |
  1+15       0.0597      0.71  | QV      |         |         |         |
  1+20       0.0646      0.71  | Q V     |         |         |         |
  1+25       0.0695      0.71  | Q V     |         |         |         |
  1+30       0.0744      0.71  | Q V     |         |         |         |
  1+35       0.0793      0.71  | Q  V    |         |         |         |
  1+40       0.0841      0.71  | Q  V    |         |         |         |
  1+45       0.0890      0.71  | Q  V    |         |         |         |
  1+50       0.0939      0.71  | Q   V   |         |         |         |
  1+55       0.0988      0.71  | Q   V   |         |         |         |
  2+ 0       0.1040      0.75  |  Q  V   |         |         |         |
  2+ 5       0.1092      0.75  | Q    V  |         |         |         |
  2+10       0.1144      0.76  |  Q   V  |         |         |         |
  2+15       0.1199      0.79  |  Q   V  |         |         |         |
  2+20       0.1253      0.80  |  Q    V |         |         |         |
  2+25       0.1308      0.80  |  Q    V |         |         |         |
  2+30       0.1364      0.80  |  Q    V |         |         |         |
  2+35       0.1419      0.80  |  Q     V|         |         |         |
  2+40       0.1474      0.80  |  Q     V|         |         |         |
  2+45       0.1532      0.84  |  Q     V|         |         |         |
  2+50       0.1592      0.88  |  Q      V         |         |         |
  2+55       0.1653      0.89  |  Q      V         |         |         |
  3+ 0       0.1714      0.89  |  Q      |V        |         |         |
  3+ 5       0.1775      0.89  |  Q      |V        |         |         |
  3+10       0.1839      0.93  |  Q      | V       |         |         |
  3+15       0.1906      0.97  |  Q      | V       |         |         |
  3+20       0.1973      0.97  |  Q      | V       |         |         |
  3+25       0.2043      1.02  |   Q     |  V      |         |         |
  3+30       0.2119      1.10  |   Q     |  V      |         |         |
  3+35       0.2200      1.18  |   Q     |   V     |         |         |
  3+40       0.2285      1.23  |   Q     |   V     |         |         |
  3+45       0.2373      1.28  |    Q    |    V    |         |         |
  3+50       0.2464      1.32  |    Q    |     V   |         |         |
  3+55       0.2559      1.37  |    Q    |     V   |         |         |
  4+ 0       0.2656      1.41  |    Q    |      V  |         |         |
  4+ 5       0.2757      1.46  |    Q    |      V  |         |         |
  4+10       0.2863      1.54  |     Q   |       V |         |         |
  4+15       0.2975      1.63  |     Q   |        V|         |         |
  4+20       0.3093      1.72  |     Q   |         V         |         |
  4+25       0.3217      1.80  |      Q  |         V         |         |
  4+30       0.3345      1.85  |      Q  |         |V        |         |
  4+35       0.3476      1.90  |      Q  |         | V       |         |
  4+40       0.3613      1.99  |      Q  |         |  V      |         |
  4+45       0.3755      2.07  |       Q |         |   V     |         |
  4+50       0.3901      2.12  |       Q |         |    V    |         |
  4+55       0.4051      2.17  |       Q |         |     V   |         |
  5+ 0       0.4206      2.25  |        Q|         |      V  |         |
  5+ 5       0.4378      2.50  |         Q         |       V |         |
  5+10       0.4579      2.91  |         |Q        |        V|         |
  5+15       0.4803      3.26  |         |  Q      |         |V        |
  5+20       0.5047      3.54  |         |   Q     |         | V       |
  5+25       0.5315      3.90  |         |    Q    |         |  V      |
  5+30       0.5628      4.55  |         |     Q   |         |   V     |
  5+35       0.5863      3.40  |         |  Q      |         |    V    |
  5+40       0.5976      1.64  |     Q   |         |         |     V   |
```

```
    5+45       0.6037      0.90  |  Q       |          |          |         V|
    5+50       0.6075      0.55  | Q        |          |          |         V|
    5+55       0.6102      0.38  |Q         |          |          |         V|
    6+ 0       0.6119      0.25  Q          |          |          |         V|
    6+ 5       0.6126      0.11  Q          |          |          |         V|
    6+10       0.6128      0.02  Q          |          |          |         V|
    6+15       0.6128      0.01  Q          |          |          |          V
---------------------------------------------------------------------------
```

```
       U n i t   H y d r o g r a p h   A n a l y s i s

       Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2008, Version 8.1
              Study date  03/01/22 File: pro12242.out

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------------------------------------------------------------------------------

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       9.87(Ac.)  =      0.015 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       9.87(Ac.)  =      0.015 Sq. Mi.
Length along longest watercourse =    1180.00(Ft.)
Length along longest watercourse measured to centroid =     590.00(Ft.)
Length along longest watercourse =      0.223 Mi.
Length along longest watercourse measured to centroid =      0.112 Mi.
Difference in elevation =      18.60(Ft.)
Slope along watercourse =     83.2271 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time =    0.038 Hr.
Lag time =     2.29 Min.
25% of lag time =     0.57 Min.
40% of lag time =     0.92 Min.
Unit time =     5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            1.80                 17.77

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            4.50                 44.41

STORM EVENT (YEAR) =    2.00
Area Averaged 2-Year Rainfall =    1.800(In)
Area Averaged 100-Year Rainfall =    4.500(In)

Point rain (area averaged) =    1.800(In)
Areal adjustment factor =  100.00 %
Adjusted average point rain =    1.800(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     9.870           56.00          0.650
 Total Area Entered =      9.87(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-1     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
56.0  36.0      0.706     0.650        0.293       1.000      0.293
                                                 Sum (F) =   0.293
Area averaged mean soil loss (F) (In/Hr) =  0.293
Minimum soil loss rate ((In/Hr)) =  0.146
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.380
------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
    (hrs)                          Graph %           (CFS)
------------------------------------------------------------------------
```

1	0.083	217.936	46.337	4.609
2	0.167	435.872	42.135	4.191
3	0.250	653.809	8.112	0.807
4	0.333	871.745	3.415	0.340
			Sum = 100.000 Sum=	9.947

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.014	(0.519)	0.005	0.009
2	0.17	0.07	0.014	(0.517)	0.005	0.009
3	0.25	0.07	0.014	(0.515)	0.005	0.009
4	0.33	0.10	0.022	(0.513)	0.008	0.013
5	0.42	0.10	0.022	(0.511)	0.008	0.013
6	0.50	0.10	0.022	(0.509)	0.008	0.013
7	0.58	0.10	0.022	(0.507)	0.008	0.013
8	0.67	0.10	0.022	(0.505)	0.008	0.013
9	0.75	0.10	0.022	(0.503)	0.008	0.013
10	0.83	0.13	0.029	(0.501)	0.011	0.018
11	0.92	0.13	0.029	(0.499)	0.011	0.018
12	1.00	0.13	0.029	(0.498)	0.011	0.018
13	1.08	0.10	0.022	(0.496)	0.008	0.013
14	1.17	0.10	0.022	(0.494)	0.008	0.013
15	1.25	0.10	0.022	(0.492)	0.008	0.013
16	1.33	0.10	0.022	(0.490)	0.008	0.013
17	1.42	0.10	0.022	(0.488)	0.008	0.013
18	1.50	0.10	0.022	(0.486)	0.008	0.013
19	1.58	0.10	0.022	(0.484)	0.008	0.013
20	1.67	0.10	0.022	(0.482)	0.008	0.013
21	1.75	0.10	0.022	(0.480)	0.008	0.013
22	1.83	0.13	0.029	(0.478)	0.011	0.018
23	1.92	0.13	0.029	(0.476)	0.011	0.018
24	2.00	0.13	0.029	(0.474)	0.011	0.018
25	2.08	0.13	0.029	(0.472)	0.011	0.018
26	2.17	0.13	0.029	(0.470)	0.011	0.018
27	2.25	0.13	0.029	(0.468)	0.011	0.018
28	2.33	0.13	0.029	(0.467)	0.011	0.018
29	2.42	0.13	0.029	(0.465)	0.011	0.018
30	2.50	0.13	0.029	(0.463)	0.011	0.018
31	2.58	0.17	0.036	(0.461)	0.014	0.022
32	2.67	0.17	0.036	(0.459)	0.014	0.022
33	2.75	0.17	0.036	(0.457)	0.014	0.022
34	2.83	0.17	0.036	(0.455)	0.014	0.022
35	2.92	0.17	0.036	(0.453)	0.014	0.022
36	3.00	0.17	0.036	(0.451)	0.014	0.022
37	3.08	0.17	0.036	(0.450)	0.014	0.022
38	3.17	0.17	0.036	(0.448)	0.014	0.022
39	3.25	0.17	0.036	(0.446)	0.014	0.022
40	3.33	0.17	0.036	(0.444)	0.014	0.022
41	3.42	0.17	0.036	(0.442)	0.014	0.022
42	3.50	0.17	0.036	(0.440)	0.014	0.022
43	3.58	0.17	0.036	(0.438)	0.014	0.022
44	3.67	0.17	0.036	(0.437)	0.014	0.022
45	3.75	0.17	0.036	(0.435)	0.014	0.022
46	3.83	0.20	0.043	(0.433)	0.016	0.027
47	3.92	0.20	0.043	(0.431)	0.016	0.027
48	4.00	0.20	0.043	(0.429)	0.016	0.027
49	4.08	0.20	0.043	(0.427)	0.016	0.027
50	4.17	0.20	0.043	(0.426)	0.016	0.027
51	4.25	0.20	0.043	(0.424)	0.016	0.027
52	4.33	0.23	0.050	(0.422)	0.019	0.031
53	4.42	0.23	0.050	(0.420)	0.019	0.031
54	4.50	0.23	0.050	(0.418)	0.019	0.031
55	4.58	0.23	0.050	(0.417)	0.019	0.031
56	4.67	0.23	0.050	(0.415)	0.019	0.031
57	4.75	0.23	0.050	(0.413)	0.019	0.031
58	4.83	0.27	0.058	(0.411)	0.022	0.036
59	4.92	0.27	0.058	(0.409)	0.022	0.036
60	5.00	0.27	0.058	(0.408)	0.022	0.036
61	5.08	0.20	0.043	(0.406)	0.016	0.027
62	5.17	0.20	0.043	(0.404)	0.016	0.027
63	5.25	0.20	0.043	(0.402)	0.016	0.027
64	5.33	0.23	0.050	(0.401)	0.019	0.031
65	5.42	0.23	0.050	(0.399)	0.019	0.031
66	5.50	0.23	0.050	(0.397)	0.019	0.031
67	5.58	0.27	0.058	(0.395)	0.022	0.036
68	5.67	0.27	0.058	(0.394)	0.022	0.036
69	5.75	0.27	0.058	(0.392)	0.022	0.036
70	5.83	0.27	0.058	(0.390)	0.022	0.036
71	5.92	0.27	0.058	(0.388)	0.022	0.036
72	6.00	0.27	0.058	(0.387)	0.022	0.036
73	6.08	0.30	0.065	(0.385)	0.025	0.040
74	6.17	0.30	0.065	(0.383)	0.025	0.040

75	6.25	0.30	0.065	(0.382)	0.025	0.040
76	6.33	0.30	0.065	(0.380)	0.025	0.040
77	6.42	0.30	0.065	(0.378)	0.025	0.040
78	6.50	0.30	0.065	(0.377)	0.025	0.040
79	6.58	0.33	0.072	(0.375)	0.027	0.045
80	6.67	0.33	0.072	(0.373)	0.027	0.045
81	6.75	0.33	0.072	(0.371)	0.027	0.045
82	6.83	0.33	0.072	(0.370)	0.027	0.045
83	6.92	0.33	0.072	(0.368)	0.027	0.045
84	7.00	0.33	0.072	(0.366)	0.027	0.045
85	7.08	0.33	0.072	(0.365)	0.027	0.045
86	7.17	0.33	0.072	(0.363)	0.027	0.045
87	7.25	0.33	0.072	(0.361)	0.027	0.045
88	7.33	0.37	0.079	(0.360)	0.030	0.049
89	7.42	0.37	0.079	(0.358)	0.030	0.049
90	7.50	0.37	0.079	(0.356)	0.030	0.049
91	7.58	0.40	0.086	(0.355)	0.033	0.054
92	7.67	0.40	0.086	(0.353)	0.033	0.054
93	7.75	0.40	0.086	(0.352)	0.033	0.054
94	7.83	0.43	0.094	(0.350)	0.036	0.058
95	7.92	0.43	0.094	(0.348)	0.036	0.058
96	8.00	0.43	0.094	(0.347)	0.036	0.058
97	8.08	0.50	0.108	(0.345)	0.041	0.067
98	8.17	0.50	0.108	(0.344)	0.041	0.067
99	8.25	0.50	0.108	(0.342)	0.041	0.067
100	8.33	0.50	0.108	(0.340)	0.041	0.067
101	8.42	0.50	0.108	(0.339)	0.041	0.067
102	8.50	0.50	0.108	(0.337)	0.041	0.067
103	8.58	0.53	0.115	(0.336)	0.044	0.071
104	8.67	0.53	0.115	(0.334)	0.044	0.071
105	8.75	0.53	0.115	(0.332)	0.044	0.071
106	8.83	0.57	0.122	(0.331)	0.047	0.076
107	8.92	0.57	0.122	(0.329)	0.047	0.076
108	9.00	0.57	0.122	(0.328)	0.047	0.076
109	9.08	0.63	0.137	(0.326)	0.052	0.085
110	9.17	0.63	0.137	(0.325)	0.052	0.085
111	9.25	0.63	0.137	(0.323)	0.052	0.085
112	9.33	0.67	0.144	(0.322)	0.055	0.089
113	9.42	0.67	0.144	(0.320)	0.055	0.089
114	9.50	0.67	0.144	(0.318)	0.055	0.089
115	9.58	0.70	0.151	(0.317)	0.057	0.094
116	9.67	0.70	0.151	(0.315)	0.057	0.094
117	9.75	0.70	0.151	(0.314)	0.057	0.094
118	9.83	0.73	0.158	(0.312)	0.060	0.098
119	9.92	0.73	0.158	(0.311)	0.060	0.098
120	10.00	0.73	0.158	(0.309)	0.060	0.098
121	10.08	0.50	0.108	(0.308)	0.041	0.067
122	10.17	0.50	0.108	(0.306)	0.041	0.067
123	10.25	0.50	0.108	(0.305)	0.041	0.067
124	10.33	0.50	0.108	(0.303)	0.041	0.067
125	10.42	0.50	0.108	(0.302)	0.041	0.067
126	10.50	0.50	0.108	(0.300)	0.041	0.067
127	10.58	0.67	0.144	(0.299)	0.055	0.089
128	10.67	0.67	0.144	(0.298)	0.055	0.089
129	10.75	0.67	0.144	(0.296)	0.055	0.089
130	10.83	0.67	0.144	(0.295)	0.055	0.089
131	10.92	0.67	0.144	(0.293)	0.055	0.089
132	11.00	0.67	0.144	(0.292)	0.055	0.089
133	11.08	0.63	0.137	(0.290)	0.052	0.085
134	11.17	0.63	0.137	(0.289)	0.052	0.085
135	11.25	0.63	0.137	(0.287)	0.052	0.085
136	11.33	0.63	0.137	(0.286)	0.052	0.085
137	11.42	0.63	0.137	(0.285)	0.052	0.085
138	11.50	0.63	0.137	(0.283)	0.052	0.085
139	11.58	0.57	0.122	(0.282)	0.047	0.076
140	11.67	0.57	0.122	(0.280)	0.047	0.076
141	11.75	0.57	0.122	(0.279)	0.047	0.076
142	11.83	0.60	0.130	(0.278)	0.049	0.080
143	11.92	0.60	0.130	(0.276)	0.049	0.080
144	12.00	0.60	0.130	(0.275)	0.049	0.080
145	12.08	0.83	0.180	(0.273)	0.068	0.112
146	12.17	0.83	0.180	(0.272)	0.068	0.112
147	12.25	0.83	0.180	(0.271)	0.068	0.112
148	12.33	0.87	0.187	(0.269)	0.071	0.116
149	12.42	0.87	0.187	(0.268)	0.071	0.116
150	12.50	0.87	0.187	(0.267)	0.071	0.116
151	12.58	0.93	0.202	(0.265)	0.077	0.125
152	12.67	0.93	0.202	(0.264)	0.077	0.125
153	12.75	0.93	0.202	(0.263)	0.077	0.125
154	12.83	0.97	0.209	(0.261)	0.079	0.129
155	12.92	0.97	0.209	(0.260)	0.079	0.129
156	13.00	0.97	0.209	(0.259)	0.079	0.129
157	13.08	1.13	0.245	(0.257)	0.093	0.152
158	13.17	1.13	0.245	(0.256)	0.093	0.152
159	13.25	1.13	0.245	(0.255)	0.093	0.152
160	13.33	1.13	0.245	(0.254)	0.093	0.152
161	13.42	1.13	0.245	(0.252)	0.093	0.152

162	13.50	1.13	0.245	(0.251)	0.093	0.152
163	13.58	0.77	0.166	(0.250)	0.063	0.103
164	13.67	0.77	0.166	(0.248)	0.063	0.103
165	13.75	0.77	0.166	(0.247)	0.063	0.103
166	13.83	0.77	0.166	(0.246)	0.063	0.103
167	13.92	0.77	0.166	(0.245)	0.063	0.103
168	14.00	0.77	0.166	(0.243)	0.063	0.103
169	14.08	0.90	0.194	(0.242)	0.074	0.121
170	14.17	0.90	0.194	(0.241)	0.074	0.121
171	14.25	0.90	0.194	(0.240)	0.074	0.121
172	14.33	0.87	0.187	(0.238)	0.071	0.116
173	14.42	0.87	0.187	(0.237)	0.071	0.116
174	14.50	0.87	0.187	(0.236)	0.071	0.116
175	14.58	0.87	0.187	(0.235)	0.071	0.116
176	14.67	0.87	0.187	(0.234)	0.071	0.116
177	14.75	0.87	0.187	(0.232)	0.071	0.116
178	14.83	0.83	0.180	(0.231)	0.068	0.112
179	14.92	0.83	0.180	(0.230)	0.068	0.112
180	15.00	0.83	0.180	(0.229)	0.068	0.112
181	15.08	0.80	0.173	(0.228)	0.066	0.107
182	15.17	0.80	0.173	(0.226)	0.066	0.107
183	15.25	0.80	0.173	(0.225)	0.066	0.107
184	15.33	0.77	0.166	(0.224)	0.063	0.103
185	15.42	0.77	0.166	(0.223)	0.063	0.103
186	15.50	0.77	0.166	(0.222)	0.063	0.103
187	15.58	0.63	0.137	(0.221)	0.052	0.085
188	15.67	0.63	0.137	(0.220)	0.052	0.085
189	15.75	0.63	0.137	(0.218)	0.052	0.085
190	15.83	0.63	0.137	(0.217)	0.052	0.085
191	15.92	0.63	0.137	(0.216)	0.052	0.085
192	16.00	0.63	0.137	(0.215)	0.052	0.085
193	16.08	0.13	0.029	(0.214)	0.011	0.018
194	16.17	0.13	0.029	(0.213)	0.011	0.018
195	16.25	0.13	0.029	(0.212)	0.011	0.018
196	16.33	0.13	0.029	(0.211)	0.011	0.018
197	16.42	0.13	0.029	(0.210)	0.011	0.018
198	16.50	0.13	0.029	(0.209)	0.011	0.018
199	16.58	0.10	0.022	(0.208)	0.008	0.013
200	16.67	0.10	0.022	(0.207)	0.008	0.013
201	16.75	0.10	0.022	(0.205)	0.008	0.013
202	16.83	0.10	0.022	(0.204)	0.008	0.013
203	16.92	0.10	0.022	(0.203)	0.008	0.013
204	17.00	0.10	0.022	(0.202)	0.008	0.013
205	17.08	0.17	0.036	(0.201)	0.014	0.022
206	17.17	0.17	0.036	(0.200)	0.014	0.022
207	17.25	0.17	0.036	(0.199)	0.014	0.022
208	17.33	0.17	0.036	(0.198)	0.014	0.022
209	17.42	0.17	0.036	(0.197)	0.014	0.022
210	17.50	0.17	0.036	(0.196)	0.014	0.022
211	17.58	0.17	0.036	(0.195)	0.014	0.022
212	17.67	0.17	0.036	(0.194)	0.014	0.022
213	17.75	0.17	0.036	(0.193)	0.014	0.022
214	17.83	0.13	0.029	(0.192)	0.011	0.018
215	17.92	0.13	0.029	(0.192)	0.011	0.018
216	18.00	0.13	0.029	(0.191)	0.011	0.018
217	18.08	0.13	0.029	(0.190)	0.011	0.018
218	18.17	0.13	0.029	(0.189)	0.011	0.018
219	18.25	0.13	0.029	(0.188)	0.011	0.018
220	18.33	0.13	0.029	(0.187)	0.011	0.018
221	18.42	0.13	0.029	(0.186)	0.011	0.018
222	18.50	0.13	0.029	(0.185)	0.011	0.018
223	18.58	0.10	0.022	(0.184)	0.008	0.013
224	18.67	0.10	0.022	(0.183)	0.008	0.013
225	18.75	0.10	0.022	(0.182)	0.008	0.013
226	18.83	0.07	0.014	(0.182)	0.005	0.009
227	18.92	0.07	0.014	(0.181)	0.005	0.009
228	19.00	0.07	0.014	(0.180)	0.005	0.009
229	19.08	0.10	0.022	(0.179)	0.008	0.013
230	19.17	0.10	0.022	(0.178)	0.008	0.013
231	19.25	0.10	0.022	(0.177)	0.008	0.013
232	19.33	0.13	0.029	(0.176)	0.011	0.018
233	19.42	0.13	0.029	(0.176)	0.011	0.018
234	19.50	0.13	0.029	(0.175)	0.011	0.018
235	19.58	0.10	0.022	(0.174)	0.008	0.013
236	19.67	0.10	0.022	(0.173)	0.008	0.013
237	19.75	0.10	0.022	(0.172)	0.008	0.013
238	19.83	0.07	0.014	(0.172)	0.005	0.009
239	19.92	0.07	0.014	(0.171)	0.005	0.009
240	20.00	0.07	0.014	(0.170)	0.005	0.009
241	20.08	0.10	0.022	(0.169)	0.008	0.013
242	20.17	0.10	0.022	(0.169)	0.008	0.013
243	20.25	0.10	0.022	(0.168)	0.008	0.013
244	20.33	0.10	0.022	(0.167)	0.008	0.013
245	20.42	0.10	0.022	(0.166)	0.008	0.013
246	20.50	0.10	0.022	(0.166)	0.008	0.013
247	20.58	0.10	0.022	(0.165)	0.008	0.013
248	20.67	0.10	0.022	(0.164)	0.008	0.013

249	20.75	0.10	0.022	(	0.164)	0.008	0.013
250	20.83	0.07	0.014	(	0.163)	0.005	0.009
251	20.92	0.07	0.014	(	0.162)	0.005	0.009
252	21.00	0.07	0.014	(	0.162)	0.005	0.009
253	21.08	0.10	0.022	(	0.161)	0.008	0.013
254	21.17	0.10	0.022	(	0.160)	0.008	0.013
255	21.25	0.10	0.022	(	0.160)	0.008	0.013
256	21.33	0.07	0.014	(	0.159)	0.005	0.009
257	21.42	0.07	0.014	(	0.159)	0.005	0.009
258	21.50	0.07	0.014	(	0.158)	0.005	0.009
259	21.58	0.10	0.022	(	0.157)	0.008	0.013
260	21.67	0.10	0.022	(	0.157)	0.008	0.013
261	21.75	0.10	0.022	(	0.156)	0.008	0.013
262	21.83	0.07	0.014	(	0.156)	0.005	0.009
263	21.92	0.07	0.014	(	0.155)	0.005	0.009
264	22.00	0.07	0.014	(	0.155)	0.005	0.009
265	22.08	0.10	0.022	(	0.154)	0.008	0.013
266	22.17	0.10	0.022	(	0.154)	0.008	0.013
267	22.25	0.10	0.022	(	0.153)	0.008	0.013
268	22.33	0.07	0.014	(	0.153)	0.005	0.009
269	22.42	0.07	0.014	(	0.152)	0.005	0.009
270	22.50	0.07	0.014	(	0.152)	0.005	0.009
271	22.58	0.07	0.014	(	0.151)	0.005	0.009
272	22.67	0.07	0.014	(	0.151)	0.005	0.009
273	22.75	0.07	0.014	(	0.151)	0.005	0.009
274	22.83	0.07	0.014	(	0.150)	0.005	0.009
275	22.92	0.07	0.014	(	0.150)	0.005	0.009
276	23.00	0.07	0.014	(	0.149)	0.005	0.009
277	23.08	0.07	0.014	(	0.149)	0.005	0.009
278	23.17	0.07	0.014	(	0.149)	0.005	0.009
279	23.25	0.07	0.014	(	0.148)	0.005	0.009
280	23.33	0.07	0.014	(	0.148)	0.005	0.009
281	23.42	0.07	0.014	(	0.148)	0.005	0.009
282	23.50	0.07	0.014	(	0.148)	0.005	0.009
283	23.58	0.07	0.014	(	0.147)	0.005	0.009
284	23.67	0.07	0.014	(	0.147)	0.005	0.009
285	23.75	0.07	0.014	(	0.147)	0.005	0.009
286	23.83	0.07	0.014	(	0.147)	0.005	0.009
287	23.92	0.07	0.014	(	0.147)	0.005	0.009
288	24.00	0.07	0.014	(	0.147)	0.005	0.009

(Loss Rate Not Used)

Sum = 100.0 Sum = 13.4

Flood volume = Effective rainfall 1.12(In)
times area 9.9(Ac.)/[(In)/(Ft.)] = 0.9(Ac.Ft)
Total soil loss = 0.68(In)
Total soil loss = 0.563(Ac.Ft)
Total rainfall = 1.80(In)
Flood volume = 39983.4 Cubic Feet
Total soil loss = 24505.9 Cubic Feet

Peak flow rate of this hydrograph = 1.510(CFS)

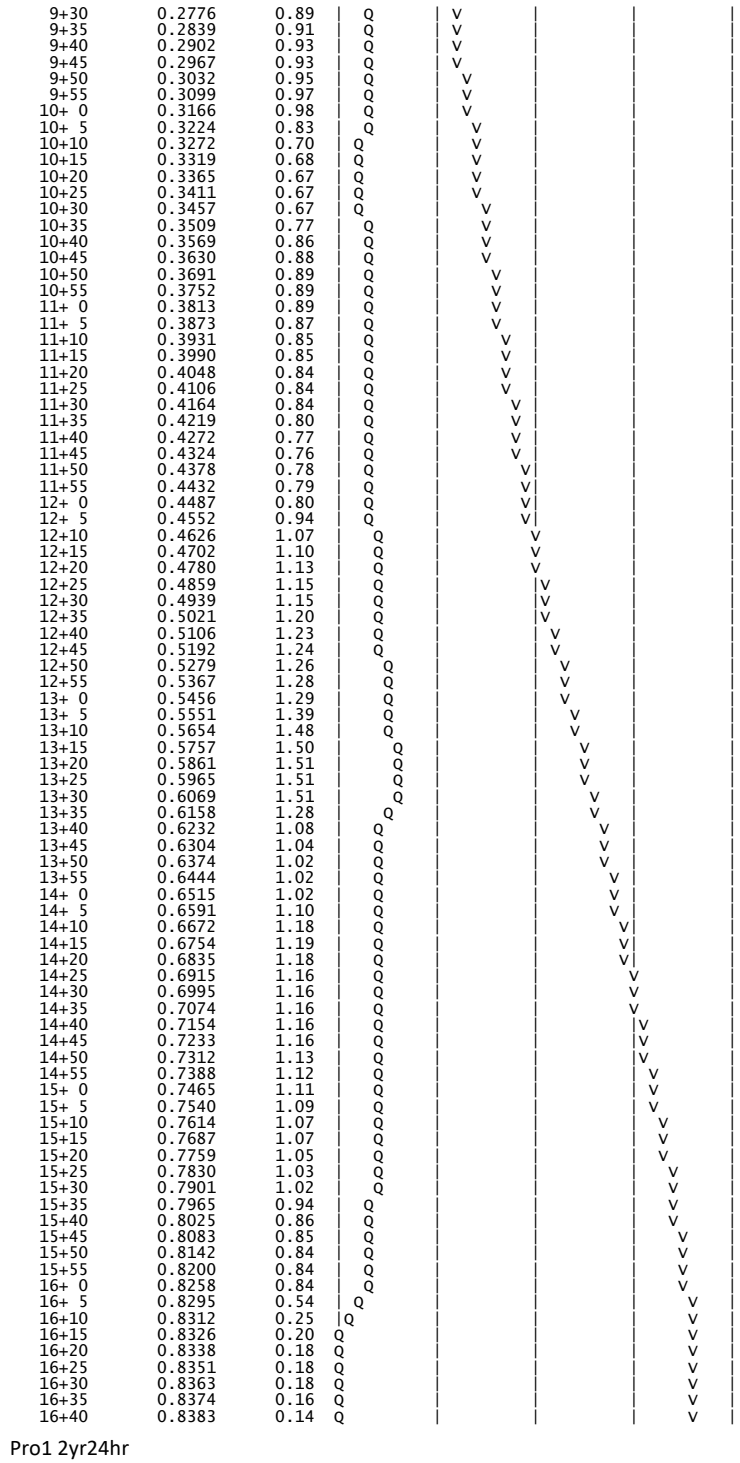
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24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0003	0.04	Q				
0+10	0.0008	0.08	Q				
0+15	0.0014	0.09	Q				
0+20	0.0022	0.11	Q				
0+25	0.0031	0.13	Q				
0+30	0.0040	0.13	Q				
0+35	0.0049	0.13	Q				
0+40	0.0058	0.13	Q				
0+45	0.0067	0.13	Q				
0+50	0.0078	0.15	Q				
0+55	0.0090	0.17	Q				
1+ 0	0.0102	0.18	Q				
1+ 5	0.0113	0.16	Q				
1+10	0.0122	0.14	Q				
1+15	0.0131	0.13	Q				
1+20	0.0141	0.13	Q				
1+25	0.0150	0.13	Q				
1+30	0.0159	0.13	Q				
1+35	0.0168	0.13	Q				
1+40	0.0177	0.13	Q				
1+45	0.0186	0.13	Q				
1+50	0.0197	0.15	Q				
1+55	0.0209	0.17	Q				
2+ 0	0.0221	0.18	Q				
2+ 5	0.0233	0.18	QV				
2+10	0.0246	0.18	QV				

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2+15       0.0258      0.18  QV         |          |          |          |
2+20       0.0270      0.18  QV         |          |          |          |
2+25       0.0282      0.18  QV         |          |          |          |
2+30       0.0295      0.18  QV         |          |          |          |
2+35       0.0308      0.20  QV         |          |          |          |
2+40       0.0323      0.22  QV         |          |          |          |
2+45       0.0338      0.22  QV         |          |          |          |
2+50       0.0354      0.22  QV         |          |          |          |
2+55       0.0369      0.22  QV         |          |          |          |
3+ 0       0.0384      0.22  QV         |          |          |          |
3+ 5       0.0399      0.22  QV         |          |          |          |
3+10       0.0415      0.22  QV         |          |          |          |
3+15       0.0430      0.22  QV         |          |          |          |
3+20       0.0445      0.22  QV         |          |          |          |
3+25       0.0461      0.22  Q V        |          |          |          |
3+30       0.0476      0.22  Q V        |          |          |          |
3+35       0.0491      0.22  Q V        |          |          |          |
3+40       0.0507      0.22  Q V        |          |          |          |
3+45       0.0522      0.22  Q V        |          |          |          |
3+50       0.0539      0.24  Q V        |          |          |          |
3+55       0.0557      0.26  |QV        |          |          |          |
4+ 0       0.0575      0.27  |QV        |          |          |          |
4+ 5       0.0593      0.27  |QV        |          |          |          |
4+10       0.0612      0.27  |QV        |          |          |          |
4+15       0.0630      0.27  |QV        |          |          |          |
4+20       0.0650      0.29  |QV        |          |          |          |
4+25       0.0671      0.31  |QV        |          |          |          |
4+30       0.0692      0.31  |Q V       |          |          |          |
4+35       0.0714      0.31  |Q V       |          |          |          |
4+40       0.0735      0.31  |Q V       |          |          |          |
4+45       0.0756      0.31  |Q V       |          |          |          |
4+50       0.0779      0.33  |Q V       |          |          |          |
4+55       0.0803      0.35  |Q V       |          |          |          |
5+ 0       0.0828      0.35  |Q V       |          |          |          |
5+ 5       0.0849      0.31  |Q V       |          |          |          |
5+10       0.0868      0.28  |Q V       |          |          |          |
5+15       0.0887      0.27  |Q V       |          |          |          |
5+20       0.0907      0.29  |Q V       |          |          |          |
5+25       0.0928      0.31  |Q  V      |          |          |          |
5+30       0.0949      0.31  |Q  V      |          |          |          |
5+35       0.0972      0.33  |Q  V      |          |          |          |
5+40       0.0996      0.35  |Q  V      |          |          |          |
5+45       0.1020      0.35  |Q  V      |          |          |          |
5+50       0.1045      0.36  |Q  V      |          |          |          |
5+55       0.1069      0.36  |Q  V      |          |          |          |
6+ 0       0.1094      0.36  |Q  V      |          |          |          |
6+ 5       0.1120      0.38  |Q  V      |          |          |          |
6+10       0.1147      0.39  |Q  V      |          |          |          |
6+15       0.1174      0.40  |Q   V     |          |          |          |
6+20       0.1202      0.40  |Q   V     |          |          |          |
6+25       0.1229      0.40  |Q   V     |          |          |          |
6+30       0.1257      0.40  |Q   V     |          |          |          |
6+35       0.1286      0.42  |Q   V     |          |          |          |
6+40       0.1316      0.44  |Q   V     |          |          |          |
6+45       0.1347      0.44  |Q   V     |          |          |          |
6+50       0.1377      0.44  |Q    V    |          |          |          |
6+55       0.1408      0.44  |Q    V    |          |          |          |
7+ 0       0.1438      0.44  |Q    V    |          |          |          |
7+ 5       0.1469      0.44  |Q    V    |          |          |          |
7+10       0.1500      0.44  |Q    V    |          |          |          |
7+15       0.1530      0.44  |Q    V    |          |          |          |
7+20       0.1562      0.46  |Q    V    |          |          |          |
7+25       0.1596      0.48  |Q    V    |          |          |          |
7+30       0.1629      0.49  |Q     V   |          |          |          |
7+35       0.1664      0.51  | Q    V   |          |          |          |
7+40       0.1701      0.53  | Q    V   |          |          |          |
7+45       0.1737      0.53  | Q    V   |          |          |          |
7+50       0.1775      0.55  | Q    V   |          |          |          |
7+55       0.1815      0.57  | Q    V   |          |          |          |
8+ 0       0.1854      0.58  | Q     V  |          |          |          |
8+ 5       0.1897      0.62  | Q     V  |          |          |          |
8+10       0.1942      0.66  | Q     V  |          |          |          |
8+15       0.1988      0.66  | Q     V  |          |          |          |
8+20       0.2034      0.67  | Q     V  |          |          |          |
8+25       0.2080      0.67  | Q      V |          |          |          |
8+30       0.2126      0.67  | Q      V |          |          |          |
8+35       0.2173      0.69  | Q      V |          |          |          |
8+40       0.2221      0.71  | Q      V |          |          |          |
8+45       0.2270      0.71  | Q      V |          |          |          |
8+50       0.2321      0.73  | Q       V |          |          |          |
8+55       0.2372      0.75  |  Q      V |          |          |          |
9+ 0       0.2424      0.75  |  Q      V |          |          |          |
9+ 5       0.2479      0.80  |  Q      V |          |          |          |
9+10       0.2537      0.83  |  Q       |V         |          |          |
9+15       0.2594      0.84  |  Q       |V         |          |          |
9+20       0.2654      0.86  |  Q       |V         |          |          |
9+25       0.2715      0.88  |  Q       |V         |          |          |
```



9+30	0.2776	0.89	Q	V			
9+35	0.2839	0.91	Q	V			
9+40	0.2902	0.93	Q	V			
9+45	0.2967	0.93	Q	V			
9+50	0.3032	0.95	Q	V			
9+55	0.3099	0.97	Q	V			
10+ 0	0.3166	0.98	Q	V			
10+ 5	0.3224	0.83	Q	V			
10+10	0.3272	0.70	Q	V			
10+15	0.3319	0.68	Q	V			
10+20	0.3365	0.67	Q	V			
10+25	0.3411	0.67	Q	V			
10+30	0.3457	0.67	Q	V			
10+35	0.3509	0.77	Q	V			
10+40	0.3569	0.86	Q	V			
10+45	0.3630	0.88	Q	V			
10+50	0.3691	0.89	Q	V			
10+55	0.3752	0.89	Q	V			
11+ 0	0.3813	0.89	Q	V			
11+ 5	0.3873	0.87	Q	V			
11+10	0.3931	0.85	Q	V			
11+15	0.3990	0.85	Q	V			
11+20	0.4048	0.84	Q	V			
11+25	0.4106	0.84	Q	V			
11+30	0.4164	0.84	Q	V			
11+35	0.4219	0.80	Q	V			
11+40	0.4272	0.77	Q	V			
11+45	0.4324	0.76	Q	V			
11+50	0.4378	0.78	Q	V			
11+55	0.4432	0.79	Q	V			
12+ 0	0.4487	0.80	Q	V			
12+ 5	0.4552	0.94	Q	V			
12+10	0.4626	1.07	Q	V			
12+15	0.4702	1.10	Q	V			
12+20	0.4780	1.13	Q	V			
12+25	0.4859	1.15	Q	V			
12+30	0.4939	1.15	Q	V			
12+35	0.5021	1.20	Q	V			
12+40	0.5106	1.23	Q	V			
12+45	0.5192	1.24	Q	V			
12+50	0.5279	1.26	Q	V			
12+55	0.5367	1.28	Q	V			
13+ 0	0.5456	1.29	Q	V			
13+ 5	0.5551	1.39	Q	V			
13+10	0.5654	1.48	Q	V			
13+15	0.5757	1.50	Q	V			
13+20	0.5861	1.51	Q	V			
13+25	0.5965	1.51	Q	V			
13+30	0.6069	1.51	Q	V			
13+35	0.6158	1.28	Q	V			
13+40	0.6232	1.08	Q	V			
13+45	0.6304	1.04	Q	V			
13+50	0.6374	1.02	Q	V			
13+55	0.6444	1.02	Q	V			
14+ 0	0.6515	1.02	Q	V			
14+ 5	0.6591	1.10	Q	V			
14+10	0.6672	1.18	Q	V			
14+15	0.6754	1.19	Q	V			
14+20	0.6835	1.18	Q	V			
14+25	0.6915	1.16	Q	V			
14+30	0.6995	1.16	Q	V			
14+35	0.7074	1.16	Q	V			
14+40	0.7154	1.16	Q	V			
14+45	0.7233	1.16	Q	V			
14+50	0.7312	1.13	Q	V			
14+55	0.7388	1.12	Q	V			
15+ 0	0.7465	1.11	Q	V			
15+ 5	0.7540	1.09	Q	V			
15+10	0.7614	1.07	Q	V			
15+15	0.7687	1.07	Q	V			
15+20	0.7759	1.05	Q	V			
15+25	0.7830	1.03	Q	V			
15+30	0.7901	1.02	Q	V			
15+35	0.7965	0.94	Q	V			
15+40	0.8025	0.86	Q	V			
15+45	0.8083	0.85	Q	V			
15+50	0.8142	0.84	Q	V			
15+55	0.8200	0.84	Q	V			
16+ 0	0.8258	0.84	Q	V			
16+ 5	0.8295	0.54	Q	V			
16+10	0.8312	0.25	Q	V			
16+15	0.8326	0.20	Q	V			
16+20	0.8338	0.18	Q	V			
16+25	0.8351	0.18	Q	V			
16+30	0.8363	0.18	Q	V			
16+35	0.8374	0.16	Q	V			
16+40	0.8383	0.14	Q	V			

16+45	0.8392	0.13	Q	|	|	|	V |
16+50	0.8402	0.13	Q	|	|	|	V |
16+55	0.8411	0.13	Q	|	|	|	V |
17+ 0	0.8420	0.13	Q	|	|	|	V |
17+ 5	0.8432	0.17	Q	|	|	|	V |
17+10	0.8447	0.21	Q	|	|	|	V |
17+15	0.8462	0.22	Q	|	|	|	V |
17+20	0.8477	0.22	Q	|	|	|	V |
17+25	0.8492	0.22	Q	|	|	|	V |
17+30	0.8508	0.22	Q	|	|	|	V |
17+35	0.8523	0.22	Q	|	|	|	V |
17+40	0.8538	0.22	Q	|	|	|	V |
17+45	0.8553	0.22	Q	|	|	|	V |
17+50	0.8567	0.20	Q	|	|	|	V |
17+55	0.8580	0.18	Q	|	|	|	V |
18+ 0	0.8592	0.18	Q	|	|	|	V |
18+ 5	0.8604	0.18	Q	|	|	|	V |
18+10	0.8617	0.18	Q	|	|	|	V |
18+15	0.8629	0.18	Q	|	|	|	V |
18+20	0.8641	0.18	Q	|	|	|	V |
18+25	0.8653	0.18	Q	|	|	|	V |
18+30	0.8666	0.18	Q	|	|	|	V |
18+35	0.8677	0.16	Q	|	|	|	V |
18+40	0.8686	0.14	Q	|	|	|	V |
18+45	0.8695	0.13	Q	|	|	|	V |
18+50	0.8703	0.11	Q	|	|	|	V |
18+55	0.8710	0.09	Q	|	|	|	V |
19+ 0	0.8716	0.09	Q	|	|	|	V |
19+ 5	0.8723	0.11	Q	|	|	|	V |
19+10	0.8732	0.13	Q	|	|	|	V |
19+15	0.8741	0.13	Q	|	|	|	V |
19+20	0.8752	0.15	Q	|	|	|	V |
19+25	0.8764	0.17	Q	|	|	|	V |
19+30	0.8776	0.18	Q	|	|	|	V |
19+35	0.8787	0.16	Q	|	|	|	V |
19+40	0.8796	0.14	Q	|	|	|	V |
19+45	0.8805	0.13	Q	|	|	|	V |
19+50	0.8813	0.11	Q	|	|	|	V |
19+55	0.8820	0.09	Q	|	|	|	V |
20+ 0	0.8826	0.09	Q	|	|	|	V |
20+ 5	0.8833	0.11	Q	|	|	|	V |
20+10	0.8842	0.13	Q	|	|	|	V |
20+15	0.8851	0.13	Q	|	|	|	V |
20+20	0.8861	0.13	Q	|	|	|	V |
20+25	0.8870	0.13	Q	|	|	|	V |
20+30	0.8879	0.13	Q	|	|	|	V |
20+35	0.8888	0.13	Q	|	|	|	V |
20+40	0.8897	0.13	Q	|	|	|	V |
20+45	0.8906	0.13	Q	|	|	|	V |
20+50	0.8914	0.11	Q	|	|	|	V |
20+55	0.8921	0.09	Q	|	|	|	V |
21+ 0	0.8927	0.09	Q	|	|	|	V |
21+ 5	0.8934	0.11	Q	|	|	|	V |
21+10	0.8943	0.13	Q	|	|	|	V |
21+15	0.8952	0.13	Q	|	|	|	V|
21+20	0.8960	0.11	Q	|	|	|	V|
21+25	0.8967	0.09	Q	|	|	|	V|
21+30	0.8973	0.09	Q	|	|	|	V|
21+35	0.8980	0.11	Q	|	|	|	V|
21+40	0.8989	0.13	Q	|	|	|	V|
21+45	0.8998	0.13	Q	|	|	|	V|
21+50	0.9006	0.11	Q	|	|	|	V|
21+55	0.9012	0.09	Q	|	|	|	V|
22+ 0	0.9019	0.09	Q	|	|	|	V|
22+ 5	0.9026	0.11	Q	|	|	|	V|
22+10	0.9035	0.13	Q	|	|	|	V|
22+15	0.9044	0.13	Q	|	|	|	V|
22+20	0.9052	0.11	Q	|	|	|	V|
22+25	0.9058	0.09	Q	|	|	|	V|
22+30	0.9065	0.09	Q	|	|	|	V|
22+35	0.9071	0.09	Q	|	|	|	V|
22+40	0.9077	0.09	Q	|	|	|	V|
22+45	0.9083	0.09	Q	|	|	|	V|
22+50	0.9089	0.09	Q	|	|	|	V|
22+55	0.9095	0.09	Q	|	|	|	V|
23+ 0	0.9101	0.09	Q	|	|	|	V|
23+ 5	0.9107	0.09	Q	|	|	|	V|
23+10	0.9114	0.09	Q	|	|	|	V|
23+15	0.9120	0.09	Q	|	|	|	V|
23+20	0.9126	0.09	Q	|	|	|	V|
23+25	0.9132	0.09	Q	|	|	|	V|
23+30	0.9138	0.09	Q	|	|	|	V|
23+35	0.9144	0.09	Q	|	|	|	V|
23+40	0.9150	0.09	Q	|	|	|	V|
23+45	0.9156	0.09	Q	|	|	|	V|
23+50	0.9162	0.09	Q	|	|	|	V|
23+55	0.9169	0.09	Q	|	|	|	V|

```
   24+ 0       0.9175      0.09  Q          |          |          |        V|
   24+ 5       0.9178      0.05  Q          |          |          |        V|
   24+10       0.9179      0.01  Q          |          |          |        V|
   24+15       0.9179      0.00  Q          |          |          |        V|
-------------------------------------------------------------------------
```

```
       U n i t   H y d r o g r a p h   A n a l y s i s

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       9.87(Ac.)  =      0.015 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       9.87(Ac.)  =      0.015 Sq. Mi.
Length along longest watercourse =    1180.00(Ft.)
Length along longest watercourse measured to centroid =     590.00(Ft.)
Length along longest watercourse =      0.223 Mi.
Length along longest watercourse measured to centroid =      0.112 Mi.
Difference in elevation =      18.60(Ft.)
Slope along watercourse =     83.2271 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time =    0.038 Hr.
Lag time =     2.29 Min.
25% of lag time =     0.57 Min.
40% of lag time =     0.92 Min.
Unit time =     5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            0.50                 4.93

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            1.20                11.84

STORM EVENT (YEAR) =    5.00
Area Averaged 2-Year Rainfall =    0.500(In)
Area Averaged 100-Year Rainfall =    1.200(In)

Point rain (area averaged) =    0.664(In)
Areal adjustment factor =   99.99 %
Adjusted average point rain =    0.664(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     9.870           56.00          0.650
 Total Area Entered =      9.87(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-1     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
56.0  36.0      0.706     0.650        0.293       1.000      0.293
                                                 Sum (F) =   0.293
Area averaged mean soil loss (F) (In/Hr) =  0.293
Minimum soil loss rate ((In/Hr)) =  0.146
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.380
------------------------------------------------------------------------
Slope of intensity-duration curve for a 1 hour storm =0.5000
------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
------------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
```

```
        (hrs)                          Graph %            (CFS)
      ------------------------------------------------------------------------
         1   0.083        217.936         46.337             4.609
         2   0.167        435.872         42.135             4.191
         3   0.250        653.809          8.112             0.807
         4   0.333        871.745          3.415             0.340
                                  Sum = 100.000    Sum=       9.947
    ------------------------------------------------------------------------


 The following loss rate calculations reflect use of the minimum calculated loss
 rate subtracted from the Storm Rain to produce the maximum Effective Rain value

  Unit Time   Pattern   Storm Rain     Loss rate(In./Hr)     Effective
       (Hr.)  Percent   (In/Hr)         Max    |   Low        (In/Hr)
    1   0.08     4.20      0.335       (  0.293)       0.127        0.207
    2   0.17     4.30      0.343       (  0.293)       0.130        0.212
    3   0.25     5.00      0.398       (  0.293)       0.151        0.247
    4   0.33     5.00      0.398       (  0.293)       0.151        0.247
    5   0.42     5.80      0.462       (  0.293)       0.176        0.286
    6   0.50     6.50      0.518       (  0.293)       0.197        0.321
    7   0.58     7.40      0.590       (  0.293)       0.224        0.366
    8   0.67     8.60      0.685       (  0.293)       0.260        0.425
    9   0.75    12.30      0.980          0.293    (  0.372)        0.687
   10   0.83    29.10      2.318          0.293    (  0.881)        2.025
   11   0.92     6.80      0.542       (  0.293)       0.206        0.336
   12   1.00     5.00      0.398       (  0.293)       0.151        0.247
             (Loss Rate Not Used)
      Sum =     100.0                                  Sum =     5.6
        Flood volume = Effective rainfall      0.47(In)
         times area       9.9(Ac.)/[(In)/(Ft.)] =       0.4(Ac.Ft)
        Total soil loss =      0.20(In)
        Total soil loss =     0.162(Ac.Ft)
        Total rainfall =      0.66(In)
        Flood volume =       16739.9 Cubic Feet
        Total soil loss =        7046.3 Cubic Feet
        ---------------------------------------------------------------------
         Peak flow rate of this hydrograph =     12.688(CFS)
        ---------------------------------------------------------------------
        +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                           1 - 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   5   Minute intervals ((CFS))

        ---------------------------------------------------------------------
  Time(h+m) Volume Ac.Ft   Q(CFS)  0         5.0       10.0      15.0      20.0
  ------------------------------------------------------------------------
    0+ 5       0.0066      0.96  VQ         |         |         |         |
    0+10       0.0193      1.85  | VQ       |         |         |         |
    0+15       0.0345      2.20  |  VQ      |         |         |         |
    0+20       0.0511      2.42  |   QV     |         |         |         |
    0+25       0.0692      2.63  |    Q V   |         |         |         |
    0+30       0.0896      2.97  |    Q   V |         |         |         |
    0+35       0.1127      3.35  |     Q    |V        |         |         |
    0+40       0.1392      3.85  |      Q   |  V      |         |         |
    0+45       0.1760      5.35  |          Q      V  |         |         |
    0+50       0.2634     12.69  |          |        |    Q V  |         |
    0+55       0.3374     10.74  |          |        |Q        |    V    |
    1+ 0       0.3678      4.42  |        Q |        |         |       V |
    1+ 5       0.3816      2.00  |  Q       |        |         |         V|
    1+10       0.3837      0.31  Q          |        |         |         V|
    1+15       0.3843      0.08  Q          |        |         |          V
  ------------------------------------------------------------------------
```

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       U n i t   H y d r o g r a p h   A n a l y s i s

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              Study date  03/01/22 File: pro1535.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       9.87(Ac.)  =      0.015 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       9.87(Ac.)  =      0.015 Sq. Mi.
Length along longest watercourse =    1180.00(Ft.)
Length along longest watercourse measured to centroid =     590.00(Ft.)
Length along longest watercourse =      0.223 Mi.
Length along longest watercourse measured to centroid =      0.112 Mi.
Difference in elevation =      18.60(Ft.)
Slope along watercourse =     83.2271 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time =    0.038 Hr.
Lag time =     2.29 Min.
25% of lag time =     0.57 Min.
40% of lag time =     0.92 Min.
Unit time =     5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            0.80                 7.90

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            1.90                18.75

STORM EVENT (YEAR) =    5.00
Area Averaged 2-Year Rainfall =    0.800(In)
Area Averaged 100-Year Rainfall =    1.900(In)

Point rain (area averaged) =    1.058(In)
Areal adjustment factor =  100.00 %
Adjusted average point rain =    1.058(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     9.870           56.00          0.650
 Total Area Entered =      9.87(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-1     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
56.0  36.0      0.706     0.650        0.293       1.000      0.293
                                                 Sum (F) =   0.293
Area averaged mean soil loss (F) (In/Hr) =  0.293
Minimum soil loss rate ((In/Hr)) =  0.146
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.380
------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
-------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
    (hrs)                          Graph %           (CFS)
------------------------------------------------------------------------
```

1	0.083	217.936	46.337	4.609
2	0.167	435.872	42.135	4.191
3	0.250	653.809	8.112	0.807
4	0.333	871.745	3.415	0.340
		Sum = 100.000	Sum=	9.947

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	1.30	0.165	(0.293)	0.063	0.102
2	0.17	1.30	0.165	(0.293)	0.063	0.102
3	0.25	1.10	0.140	(0.293)	0.053	0.087
4	0.33	1.50	0.190	(0.293)	0.072	0.118
5	0.42	1.50	0.190	(0.293)	0.072	0.118
6	0.50	1.80	0.228	(0.293)	0.087	0.142
7	0.58	1.50	0.190	(0.293)	0.072	0.118
8	0.67	1.80	0.228	(0.293)	0.087	0.142
9	0.75	1.80	0.228	(0.293)	0.087	0.142
10	0.83	1.50	0.190	(0.293)	0.072	0.118
11	0.92	1.60	0.203	(0.293)	0.077	0.126
12	1.00	1.80	0.228	(0.293)	0.087	0.142
13	1.08	2.20	0.279	(0.293)	0.106	0.173
14	1.17	2.20	0.279	(0.293)	0.106	0.173
15	1.25	2.20	0.279	(0.293)	0.106	0.173
16	1.33	2.00	0.254	(0.293)	0.096	0.157
17	1.42	2.60	0.330	(0.293)	0.125	0.205
18	1.50	2.70	0.343	(0.293)	0.130	0.212
19	1.58	2.40	0.305	(0.293)	0.116	0.189
20	1.67	2.70	0.343	(0.293)	0.130	0.212
21	1.75	3.30	0.419	(0.293)	0.159	0.260
22	1.83	3.10	0.393	(0.293)	0.150	0.244
23	1.92	2.90	0.368	(0.293)	0.140	0.228
24	2.00	3.00	0.381	(0.293)	0.145	0.236
25	2.08	3.10	0.393	(0.293)	0.150	0.244
26	2.17	4.20	0.533	(0.293)	0.203	0.330
27	2.25	5.00	0.635	(0.293)	0.241	0.393
28	2.33	3.50	0.444	(0.293)	0.169	0.275
29	2.42	6.80	0.863	0.293	(0.328)	0.570
30	2.50	7.30	0.926	0.293	(0.352)	0.633
31	2.58	8.20	1.041	0.293	(0.395)	0.748
32	2.67	5.90	0.749	(0.293)	0.285	0.464
33	2.75	2.00	0.254	(0.293)	0.096	0.157
34	2.83	1.80	0.228	(0.293)	0.087	0.142
35	2.92	1.80	0.228	(0.293)	0.087	0.142
36	3.00	0.60	0.076	(0.293)	0.029	0.047
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	8.1

Flood volume = Effective rainfall 0.67(In)
times area 9.9(Ac.)/[(In)/(Ft.)] = 0.6(Ac.Ft)
Total soil loss = 0.39(In)
Total soil loss = 0.317(Ac.Ft)
Total rainfall = 1.06(In)
Flood volume = 24079.6 Cubic Feet
Total soil loss = 13812.3 Cubic Feet

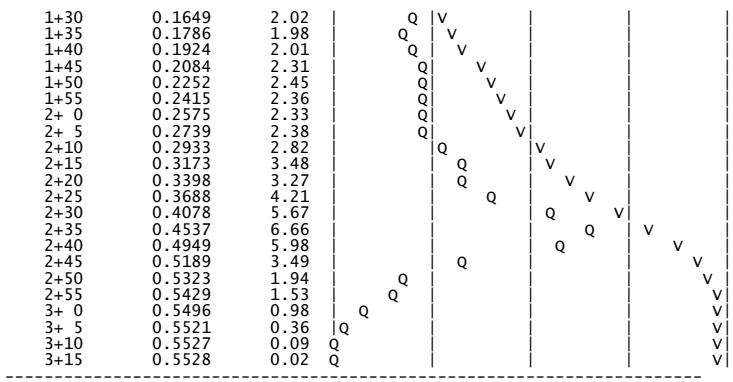
Peak flow rate of this hydrograph = 6.658(CFS)

---

3 - 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 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0032	0.47	VQ				
0+10	0.0095	0.90	V Q				
0+15	0.0157	0.91	V Q				
0+20	0.0228	1.02	V Q				
0+25	0.0307	1.14	V Q				
0+30	0.0394	1.27	V Q				
0+35	0.0482	1.27	V Q				
0+40	0.0572	1.30	VQ				
0+45	0.0667	1.39	VQ				
0+50	0.0756	1.29	Q				
0+55	0.0842	1.24	Q V				
1+ 0	0.0933	1.32	QV				
1+ 5	0.1039	1.53	QV				
1+10	0.1154	1.68	Q V				
1+15	0.1272	1.71	Q V				
1+20	0.1386	1.65	Q V				
1+25	0.1510	1.80	Q V				


1+30 0.1649 2.02
1+35 0.1786 1.98
1+40 0.1924 2.01
1+45 0.2084 2.31
1+50 0.2252 2.45
1+55 0.2415 2.36
2+ 0 0.2575 2.33
2+ 5 0.2739 2.38
2+10 0.2933 2.82
2+15 0.3173 3.48
2+20 0.3398 3.27
2+25 0.3688 4.21
2+30 0.4078 5.67
2+35 0.4537 6.66
2+40 0.4949 5.98
2+45 0.5189 3.49
2+50 0.5323 1.94
2+55 0.5429 1.53
3+ 0 0.5496 0.98
3+ 5 0.5521 0.36
3+10 0.5527 0.09
3+15 0.5528 0.02

```
       U n i t   H y d r o g r a p h   A n a l y s i s

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              Study date  03/01/22 File: pro1565.out

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------------------------------------------------------------------------------

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------------
------------------------------------------------------------------------------
Drainage Area =       9.87(Ac.)  =      0.015 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       9.87(Ac.)  =      0.015 Sq. Mi.
Length along longest watercourse =    1180.00(Ft.)
Length along longest watercourse measured to centroid =     590.00(Ft.)
Length along longest watercourse =      0.223 Mi.
Length along longest watercourse measured to centroid =      0.112 Mi.
Difference in elevation =      18.60(Ft.)
Slope along watercourse =     83.2271 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time =    0.038 Hr.
Lag time =     2.29 Min.
25% of lag time =     0.57 Min.
40% of lag time =     0.92 Min.
Unit time =     5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            1.20                 11.84

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            2.50                 24.67

STORM EVENT (YEAR) =    5.00
Area Averaged 2-Year Rainfall =    1.200(In)
Area Averaged 100-Year Rainfall =    2.500(In)

Point rain (area averaged) =    1.504(In)
Areal adjustment factor =  100.00 %
Adjusted average point rain =    1.504(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     9.870           56.00          0.650
 Total Area Entered =      9.87(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-1     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
56.0  36.0      0.706     0.650        0.293       1.000      0.293
                                                 Sum (F) =   0.293
Area averaged mean soil loss (F) (In/Hr) =  0.293
Minimum soil loss rate ((In/Hr)) =  0.146
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.380
------------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
------------------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
    (hrs)                          Graph %           (CFS)
------------------------------------------------------------------------------
```

1	0.083	217.936	46.337	4.609
2	0.167	435.872	42.135	4.191
3	0.250	653.809	8.112	0.807
4	0.333	871.745	3.415	0.340
			Sum = 100.000 Sum=	9.947

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.090	(0.293)	0.034	0.056
2	0.17	0.60	0.108	(0.293)	0.041	0.067
3	0.25	0.60	0.108	(0.293)	0.041	0.067
4	0.33	0.60	0.108	(0.293)	0.041	0.067
5	0.42	0.60	0.108	(0.293)	0.041	0.067
6	0.50	0.70	0.126	(0.293)	0.048	0.078
7	0.58	0.70	0.126	(0.293)	0.048	0.078
8	0.67	0.70	0.126	(0.293)	0.048	0.078
9	0.75	0.70	0.126	(0.293)	0.048	0.078
10	0.83	0.70	0.126	(0.293)	0.048	0.078
11	0.92	0.70	0.126	(0.293)	0.048	0.078
12	1.00	0.80	0.144	(0.293)	0.055	0.090
13	1.08	0.80	0.144	(0.293)	0.055	0.090
14	1.17	0.80	0.144	(0.293)	0.055	0.090
15	1.25	0.80	0.144	(0.293)	0.055	0.090
16	1.33	0.80	0.144	(0.293)	0.055	0.090
17	1.42	0.80	0.144	(0.293)	0.055	0.090
18	1.50	0.80	0.144	(0.293)	0.055	0.090
19	1.58	0.80	0.144	(0.293)	0.055	0.090
20	1.67	0.80	0.144	(0.293)	0.055	0.090
21	1.75	0.80	0.144	(0.293)	0.055	0.090
22	1.83	0.80	0.144	(0.293)	0.055	0.090
23	1.92	0.80	0.144	(0.293)	0.055	0.090
24	2.00	0.90	0.162	(0.293)	0.062	0.101
25	2.08	0.80	0.144	(0.293)	0.055	0.090
26	2.17	0.90	0.162	(0.293)	0.062	0.101
27	2.25	0.90	0.162	(0.293)	0.062	0.101
28	2.33	0.90	0.162	(0.293)	0.062	0.101
29	2.42	0.90	0.162	(0.293)	0.062	0.101
30	2.50	0.90	0.162	(0.293)	0.062	0.101
31	2.58	0.90	0.162	(0.293)	0.062	0.101
32	2.67	0.90	0.162	(0.293)	0.062	0.101
33	2.75	1.00	0.181	(0.293)	0.069	0.112
34	2.83	1.00	0.181	(0.293)	0.069	0.112
35	2.92	1.00	0.181	(0.293)	0.069	0.112
36	3.00	1.00	0.181	(0.293)	0.069	0.112
37	3.08	1.00	0.181	(0.293)	0.069	0.112
38	3.17	1.10	0.199	(0.293)	0.075	0.123
39	3.25	1.10	0.199	(0.293)	0.075	0.123
40	3.33	1.10	0.199	(0.293)	0.075	0.123
41	3.42	1.20	0.217	(0.293)	0.082	0.134
42	3.50	1.30	0.235	(0.293)	0.089	0.146
43	3.58	1.40	0.253	(0.293)	0.096	0.157
44	3.67	1.40	0.253	(0.293)	0.096	0.157
45	3.75	1.50	0.271	(0.293)	0.103	0.168
46	3.83	1.50	0.271	(0.293)	0.103	0.168
47	3.92	1.60	0.289	(0.293)	0.110	0.179
48	4.00	1.60	0.289	(0.293)	0.110	0.179
49	4.08	1.70	0.307	(0.293)	0.117	0.190
50	4.17	1.80	0.325	(0.293)	0.123	0.201
51	4.25	1.90	0.343	(0.293)	0.130	0.213
52	4.33	2.00	0.361	(0.293)	0.137	0.224
53	4.42	2.10	0.379	(0.293)	0.144	0.235
54	4.50	2.10	0.379	(0.293)	0.144	0.235
55	4.58	2.20	0.397	(0.293)	0.151	0.246
56	4.67	2.30	0.415	(0.293)	0.158	0.257
57	4.75	2.40	0.433	(0.293)	0.165	0.269
58	4.83	2.40	0.433	(0.293)	0.165	0.269
59	4.92	2.50	0.451	(0.293)	0.172	0.280
60	5.00	2.60	0.469	(0.293)	0.178	0.291
61	5.08	3.10	0.560	(0.293)	0.213	0.347
62	5.17	3.60	0.650	(0.293)	0.247	0.403
63	5.25	3.90	0.704	(0.293)	0.268	0.437
64	5.33	4.20	0.758	(0.293)	0.288	0.470
65	5.42	4.70	0.849	0.293	(0.322)	0.556
66	5.50	5.60	1.011	0.293	(0.384)	0.718
67	5.58	1.90	0.343	(0.293)	0.130	0.213
68	5.67	0.90	0.162	(0.293)	0.062	0.101
69	5.75	0.60	0.108	(0.293)	0.041	0.067
70	5.83	0.50	0.090	(0.293)	0.034	0.056
71	5.92	0.30	0.054	(0.293)	0.021	0.034
72	6.00	0.20	0.036	(0.293)	0.014	0.022
		(Loss Rate Not Used)				
	Sum =	100.0			Sum =	11.3

```
Flood volume = Effective rainfall      0.94(In)
 times area       9.9(Ac.)/[(In)/(Ft.)] =       0.8(Ac.Ft)
Total soil loss =      0.56(In)
Total soil loss =     0.462(Ac.Ft)
Total rainfall =      1.50(In)
Flood volume =       33778.9 Cubic Feet
Total soil loss =       20122.3 Cubic Feet
--------------------------------------------------------------------------
 Peak flow rate of this hydrograph =      6.169(CFS)
--------------------------------------------------------------------------
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                      6 - 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   5   Minute intervals ((CFS))

--------------------------------------------------------------------------
Time(h+m) Volume Ac.Ft   Q(CFS)  0        2.5       5.0       7.5      10.0
--------------------------------------------------------------------------
  0+ 5       0.0018      0.26  VQ        |         |         |         |
  0+10       0.0055      0.54  V Q       |         |         |         |
  0+15       0.0099      0.64  V Q       |         |         |         |
  0+20       0.0145      0.66  V Q       |         |         |         |
  0+25       0.0191      0.67  V Q       |         |         |         |
  0+30       0.0240      0.72  |VQ       |         |         |         |
  0+35       0.0293      0.77  |V Q      |         |         |         |
  0+40       0.0347      0.78  |V Q      |         |         |         |
  0+45       0.0400      0.78  | VQ      |         |         |         |
  0+50       0.0454      0.78  | VQ      |         |         |         |
  0+55       0.0508      0.78  | VQ      |         |         |         |
  1+ 0       0.0565      0.83  | VQ      |         |         |         |
  1+ 5       0.0626      0.88  |  Q      |         |         |         |
  1+10       0.0687      0.89  |  Q      |         |         |         |
  1+15       0.0748      0.89  |  Q      |         |         |         |
  1+20       0.0809      0.89  |  QV     |         |         |         |
  1+25       0.0871      0.89  |  QV     |         |         |         |
  1+30       0.0932      0.89  |  QV     |         |         |         |
  1+35       0.0994      0.89  |  Q V    |         |         |         |
  1+40       0.1055      0.89  |  Q V    |         |         |         |
  1+45       0.1116      0.89  |  Q V    |         |         |         |
  1+50       0.1178      0.89  |  Q  V   |         |         |         |
  1+55       0.1239      0.89  |  Q  V   |         |         |         |
  2+ 0       0.1304      0.94  |  Q  V   |         |         |         |
  2+ 5       0.1369      0.94  |  Q   V  |         |         |         |
  2+10       0.1434      0.95  |  Q   V  |         |         |         |
  2+15       0.1503      0.99  |  Q   V  |         |         |         |
  2+20       0.1571      1.00  |  Q    V |         |         |         |
  2+25       0.1640      1.00  |   Q   V |         |         |         |
  2+30       0.1709      1.00  |   Q   V |         |         |         |
  2+35       0.1779      1.00  |   Q    V|         |         |         |
  2+40       0.1848      1.00  |   Q    V|         |         |         |
  2+45       0.1920      1.05  |   Q    V|         |         |         |
  2+50       0.1996      1.10  |   Q     V         |         |         |
  2+55       0.2072      1.11  |   Q     V         |         |         |
  3+ 0       0.2149      1.11  |   Q     |V        |         |         |
  3+ 5       0.2226      1.11  |   Q     |V        |         |         |
  3+10       0.2306      1.17  |   Q     |V        |         |         |
  3+15       0.2390      1.21  |   Q     | V       |         |         |
  3+20       0.2474      1.22  |   Q     | V       |         |         |
  3+25       0.2562      1.28  |    Q    |  V      |         |         |
  3+30       0.2657      1.38  |    Q    |  V      |         |         |
  3+35       0.2759      1.48  |    Q    |   V     |         |         |
  3+40       0.2865      1.54  |     Q   |   V     |         |         |
  3+45       0.2976      1.61  |     Q   |    V    |         |         |
  3+50       0.3090      1.66  |     Q   |    V    |         |         |
  3+55       0.3208      1.72  |     Q   |     V   |         |         |
  4+ 0       0.3330      1.77  |      Q  |      V  |         |         |
  4+ 5       0.3456      1.83  |      Q  |      V  |         |         |
  4+10       0.3589      1.93  |      Q  |       V |         |         |
  4+15       0.3730      2.04  |       Q |       V|         |         |
  4+20       0.3878      2.15  |       Q |        V|         |         |
  4+25       0.4034      2.26  |        Q|        V|         |         |
  4+30       0.4194      2.32  |        Q|        |V        |         |
  4+35       0.4358      2.39  |        Q|        | V       |         |
  4+40       0.4530      2.49  |        Q|        |  V      |         |
  4+45       0.4708      2.60  |         Q        |   V     |         |
  4+50       0.4891      2.66  |         Q        |    V    |         |
  4+55       0.5079      2.72  |         Q        |     V   |         |
  5+ 0       0.5273      2.82  |         |Q       |      V  |         |
  5+ 5       0.5489      3.14  |         | Q      |       V |         |
  5+10       0.5740      3.64  |         |  Q     |        V|         |
  5+15       0.6021      4.08  |         |   Q    |         |V        |
  5+20       0.6327      4.44  |         |    Q   |         | V       |
  5+25       0.6673      5.02  |         |     Q  |         |  V      |
  5+30       0.7098      6.17  |         |      Q |         |   V     |
  5+35       0.7415      4.60  |         |       Q|         |    V    |
  5+40       0.7561      2.12  |        Q|        |         |     V   |
```

```
    5+45       0.7640      1.15  |   Q     |         |         |        V|
    5+50       0.7688      0.69  | Q       |         |         |        V|
    5+55       0.7721      0.48  |Q        |         |         |        V|
    6+ 0       0.7742      0.31  |Q        |         |         |        V|
    6+ 5       0.7752      0.14  Q         |         |         |        V|
    6+10       0.7754      0.03  Q         |         |         |        V|
    6+15       0.7755      0.01  Q         |         |         |         V
-------------------------------------------------------------------------
```

```
       U n i t   H y d r o g r a p h   A n a l y s i s

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              Study date  03/01/22 File: pro15245.out

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------------------------------------------------------------------------------

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       9.87(Ac.)  =      0.015 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       9.87(Ac.)  =      0.015 Sq. Mi.
Length along longest watercourse =    1180.00(Ft.)
Length along longest watercourse measured to centroid =     590.00(Ft.)
Length along longest watercourse =      0.223 Mi.
Length along longest watercourse measured to centroid =      0.112 Mi.
Difference in elevation =      18.60(Ft.)
Slope along watercourse =     83.2271 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time =    0.038 Hr.
Lag time =     2.29 Min.
25% of lag time =     0.57 Min.
40% of lag time =     0.92 Min.
Unit time =     5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            1.80                17.77

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            4.50                44.41

STORM EVENT (YEAR) =    5.00
Area Averaged 2-Year Rainfall =    1.800(In)
Area Averaged 100-Year Rainfall =    4.500(In)

Point rain (area averaged) =    2.432(In)
Areal adjustment factor =  100.00 %
Adjusted average point rain =    2.432(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     9.870           56.00          0.650
 Total Area Entered =      9.87(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-1     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
56.0  36.0      0.706     0.650        0.293       1.000      0.293
                                                 Sum (F) =   0.293
Area averaged mean soil loss (F) (In/Hr) =  0.293
Minimum soil loss rate ((In/Hr)) =  0.146
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.380
------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
------------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
    (hrs)                          Graph %           (CFS)
------------------------------------------------------------------------
```

1	0.083	217.936	46.337	4.609
2	0.167	435.872	42.135	4.191
3	0.250	653.809	8.112	0.807
4	0.333	871.745	3.415	0.340
			Sum = 100.000 Sum=	9.947

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.019	(0.519)	0.007	0.012
2	0.17	0.07	0.019	(0.517)	0.007	0.012
3	0.25	0.07	0.019	(0.515)	0.007	0.012
4	0.33	0.10	0.029	(0.513)	0.011	0.018
5	0.42	0.10	0.029	(0.511)	0.011	0.018
6	0.50	0.10	0.029	(0.509)	0.011	0.018
7	0.58	0.10	0.029	(0.507)	0.011	0.018
8	0.67	0.10	0.029	(0.505)	0.011	0.018
9	0.75	0.10	0.029	(0.503)	0.011	0.018
10	0.83	0.13	0.039	(0.501)	0.015	0.024
11	0.92	0.13	0.039	(0.499)	0.015	0.024
12	1.00	0.13	0.039	(0.498)	0.015	0.024
13	1.08	0.10	0.029	(0.496)	0.011	0.018
14	1.17	0.10	0.029	(0.494)	0.011	0.018
15	1.25	0.10	0.029	(0.492)	0.011	0.018
16	1.33	0.10	0.029	(0.490)	0.011	0.018
17	1.42	0.10	0.029	(0.488)	0.011	0.018
18	1.50	0.10	0.029	(0.486)	0.011	0.018
19	1.58	0.10	0.029	(0.484)	0.011	0.018
20	1.67	0.10	0.029	(0.482)	0.011	0.018
21	1.75	0.10	0.029	(0.480)	0.011	0.018
22	1.83	0.13	0.039	(0.478)	0.015	0.024
23	1.92	0.13	0.039	(0.476)	0.015	0.024
24	2.00	0.13	0.039	(0.474)	0.015	0.024
25	2.08	0.13	0.039	(0.472)	0.015	0.024
26	2.17	0.13	0.039	(0.470)	0.015	0.024
27	2.25	0.13	0.039	(0.468)	0.015	0.024
28	2.33	0.13	0.039	(0.467)	0.015	0.024
29	2.42	0.13	0.039	(0.465)	0.015	0.024
30	2.50	0.13	0.039	(0.463)	0.015	0.024
31	2.58	0.17	0.049	(0.461)	0.018	0.030
32	2.67	0.17	0.049	(0.459)	0.018	0.030
33	2.75	0.17	0.049	(0.457)	0.018	0.030
34	2.83	0.17	0.049	(0.455)	0.018	0.030
35	2.92	0.17	0.049	(0.453)	0.018	0.030
36	3.00	0.17	0.049	(0.451)	0.018	0.030
37	3.08	0.17	0.049	(0.450)	0.018	0.030
38	3.17	0.17	0.049	(0.448)	0.018	0.030
39	3.25	0.17	0.049	(0.446)	0.018	0.030
40	3.33	0.17	0.049	(0.444)	0.018	0.030
41	3.42	0.17	0.049	(0.442)	0.018	0.030
42	3.50	0.17	0.049	(0.440)	0.018	0.030
43	3.58	0.17	0.049	(0.438)	0.018	0.030
44	3.67	0.17	0.049	(0.437)	0.018	0.030
45	3.75	0.17	0.049	(0.435)	0.018	0.030
46	3.83	0.20	0.058	(0.433)	0.022	0.036
47	3.92	0.20	0.058	(0.431)	0.022	0.036
48	4.00	0.20	0.058	(0.429)	0.022	0.036
49	4.08	0.20	0.058	(0.427)	0.022	0.036
50	4.17	0.20	0.058	(0.426)	0.022	0.036
51	4.25	0.20	0.058	(0.424)	0.022	0.036
52	4.33	0.23	0.068	(0.422)	0.026	0.042
53	4.42	0.23	0.068	(0.420)	0.026	0.042
54	4.50	0.23	0.068	(0.418)	0.026	0.042
55	4.58	0.23	0.068	(0.417)	0.026	0.042
56	4.67	0.23	0.068	(0.415)	0.026	0.042
57	4.75	0.23	0.068	(0.413)	0.026	0.042
58	4.83	0.27	0.078	(0.411)	0.030	0.048
59	4.92	0.27	0.078	(0.409)	0.030	0.048
60	5.00	0.27	0.078	(0.408)	0.030	0.048
61	5.08	0.20	0.058	(0.406)	0.022	0.036
62	5.17	0.20	0.058	(0.404)	0.022	0.036
63	5.25	0.20	0.058	(0.402)	0.022	0.036
64	5.33	0.23	0.068	(0.401)	0.026	0.042
65	5.42	0.23	0.068	(0.399)	0.026	0.042
66	5.50	0.23	0.068	(0.397)	0.026	0.042
67	5.58	0.27	0.078	(0.395)	0.030	0.048
68	5.67	0.27	0.078	(0.394)	0.030	0.048
69	5.75	0.27	0.078	(0.392)	0.030	0.048
70	5.83	0.27	0.078	(0.390)	0.030	0.048
71	5.92	0.27	0.078	(0.388)	0.030	0.048
72	6.00	0.27	0.078	(0.387)	0.030	0.048
73	6.08	0.30	0.088	(0.385)	0.033	0.054
74	6.17	0.30	0.088	(0.383)	0.033	0.054

75	6.25	0.30	0.088	(0.382)	0.033	0.054
76	6.33	0.30	0.088	(0.380)	0.033	0.054
77	6.42	0.30	0.088	(0.378)	0.033	0.054
78	6.50	0.30	0.088	(0.377)	0.033	0.054
79	6.58	0.33	0.097	(0.375)	0.037	0.060
80	6.67	0.33	0.097	(0.373)	0.037	0.060
81	6.75	0.33	0.097	(0.371)	0.037	0.060
82	6.83	0.33	0.097	(0.370)	0.037	0.060
83	6.92	0.33	0.097	(0.368)	0.037	0.060
84	7.00	0.33	0.097	(0.366)	0.037	0.060
85	7.08	0.33	0.097	(0.365)	0.037	0.060
86	7.17	0.33	0.097	(0.363)	0.037	0.060
87	7.25	0.33	0.097	(0.361)	0.037	0.060
88	7.33	0.37	0.107	(0.360)	0.041	0.066
89	7.42	0.37	0.107	(0.358)	0.041	0.066
90	7.50	0.37	0.107	(0.356)	0.041	0.066
91	7.58	0.40	0.117	(0.355)	0.044	0.072
92	7.67	0.40	0.117	(0.353)	0.044	0.072
93	7.75	0.40	0.117	(0.352)	0.044	0.072
94	7.83	0.43	0.126	(0.350)	0.048	0.078
95	7.92	0.43	0.126	(0.348)	0.048	0.078
96	8.00	0.43	0.126	(0.347)	0.048	0.078
97	8.08	0.50	0.146	(0.345)	0.055	0.090
98	8.17	0.50	0.146	(0.344)	0.055	0.090
99	8.25	0.50	0.146	(0.342)	0.055	0.090
100	8.33	0.50	0.146	(0.340)	0.055	0.090
101	8.42	0.50	0.146	(0.339)	0.055	0.090
102	8.50	0.50	0.146	(0.337)	0.055	0.090
103	8.58	0.53	0.156	(0.336)	0.059	0.097
104	8.67	0.53	0.156	(0.334)	0.059	0.097
105	8.75	0.53	0.156	(0.332)	0.059	0.097
106	8.83	0.57	0.165	(0.331)	0.063	0.103
107	8.92	0.57	0.165	(0.329)	0.063	0.103
108	9.00	0.57	0.165	(0.328)	0.063	0.103
109	9.08	0.63	0.185	(0.326)	0.070	0.115
110	9.17	0.63	0.185	(0.325)	0.070	0.115
111	9.25	0.63	0.185	(0.323)	0.070	0.115
112	9.33	0.67	0.195	(0.322)	0.074	0.121
113	9.42	0.67	0.195	(0.320)	0.074	0.121
114	9.50	0.67	0.195	(0.318)	0.074	0.121
115	9.58	0.70	0.204	(0.317)	0.078	0.127
116	9.67	0.70	0.204	(0.315)	0.078	0.127
117	9.75	0.70	0.204	(0.314)	0.078	0.127
118	9.83	0.73	0.214	(0.312)	0.081	0.133
119	9.92	0.73	0.214	(0.311)	0.081	0.133
120	10.00	0.73	0.214	(0.309)	0.081	0.133
121	10.08	0.50	0.146	(0.308)	0.055	0.090
122	10.17	0.50	0.146	(0.306)	0.055	0.090
123	10.25	0.50	0.146	(0.305)	0.055	0.090
124	10.33	0.50	0.146	(0.303)	0.055	0.090
125	10.42	0.50	0.146	(0.302)	0.055	0.090
126	10.50	0.50	0.146	(0.300)	0.055	0.090
127	10.58	0.67	0.195	(0.299)	0.074	0.121
128	10.67	0.67	0.195	(0.298)	0.074	0.121
129	10.75	0.67	0.195	(0.296)	0.074	0.121
130	10.83	0.67	0.195	(0.295)	0.074	0.121
131	10.92	0.67	0.195	(0.293)	0.074	0.121
132	11.00	0.67	0.195	(0.292)	0.074	0.121
133	11.08	0.63	0.185	(0.290)	0.070	0.115
134	11.17	0.63	0.185	(0.289)	0.070	0.115
135	11.25	0.63	0.185	(0.287)	0.070	0.115
136	11.33	0.63	0.185	(0.286)	0.070	0.115
137	11.42	0.63	0.185	(0.285)	0.070	0.115
138	11.50	0.63	0.185	(0.283)	0.070	0.115
139	11.58	0.57	0.165	(0.282)	0.063	0.103
140	11.67	0.57	0.165	(0.280)	0.063	0.103
141	11.75	0.57	0.165	(0.279)	0.063	0.103
142	11.83	0.60	0.175	(0.278)	0.067	0.109
143	11.92	0.60	0.175	(0.276)	0.067	0.109
144	12.00	0.60	0.175	(0.275)	0.067	0.109
145	12.08	0.83	0.243	(0.273)	0.092	0.151
146	12.17	0.83	0.243	(0.272)	0.092	0.151
147	12.25	0.83	0.243	(0.271)	0.092	0.151
148	12.33	0.87	0.253	(0.269)	0.096	0.157
149	12.42	0.87	0.253	(0.268)	0.096	0.157
150	12.50	0.87	0.253	(0.267)	0.096	0.157
151	12.58	0.93	0.272	(0.265)	0.104	0.169
152	12.67	0.93	0.272	(0.264)	0.104	0.169
153	12.75	0.93	0.272	(0.263)	0.104	0.169
154	12.83	0.97	0.282	(0.261)	0.107	0.175
155	12.92	0.97	0.282	(0.260)	0.107	0.175
156	13.00	0.97	0.282	(0.259)	0.107	0.175
157	13.08	1.13	0.331	(0.257)	0.126	0.205
158	13.17	1.13	0.331	(0.256)	0.126	0.205
159	13.25	1.13	0.331	(0.255)	0.126	0.205
160	13.33	1.13	0.331	(0.254)	0.126	0.205
161	13.42	1.13	0.331	(0.252)	0.126	0.205

162	13.50	1.13	0.331	(0.251)	0.126	0.205
163	13.58	0.77	0.224	(0.250)	0.085	0.139
164	13.67	0.77	0.224	(0.248)	0.085	0.139
165	13.75	0.77	0.224	(0.247)	0.085	0.139
166	13.83	0.77	0.224	(0.246)	0.085	0.139
167	13.92	0.77	0.224	(0.245)	0.085	0.139
168	14.00	0.77	0.224	(0.243)	0.085	0.139
169	14.08	0.90	0.263	(0.242)	0.100	0.163
170	14.17	0.90	0.263	(0.241)	0.100	0.163
171	14.25	0.90	0.263	(0.240)	0.100	0.163
172	14.33	0.87	0.253	(0.238)	0.096	0.157
173	14.42	0.87	0.253	(0.237)	0.096	0.157
174	14.50	0.87	0.253	(0.236)	0.096	0.157
175	14.58	0.87	0.253	(0.235)	0.096	0.157
176	14.67	0.87	0.253	(0.234)	0.096	0.157
177	14.75	0.87	0.253	(0.232)	0.096	0.157
178	14.83	0.83	0.243	(0.231)	0.092	0.151
179	14.92	0.83	0.243	(0.230)	0.092	0.151
180	15.00	0.83	0.243	(0.229)	0.092	0.151
181	15.08	0.80	0.234	(0.228)	0.089	0.145
182	15.17	0.80	0.234	(0.226)	0.089	0.145
183	15.25	0.80	0.234	(0.225)	0.089	0.145
184	15.33	0.77	0.224	(0.224)	0.085	0.139
185	15.42	0.77	0.224	(0.223)	0.085	0.139
186	15.50	0.77	0.224	(0.222)	0.085	0.139
187	15.58	0.63	0.185	(0.221)	0.070	0.115
188	15.67	0.63	0.185	(0.220)	0.070	0.115
189	15.75	0.63	0.185	(0.218)	0.070	0.115
190	15.83	0.63	0.185	(0.217)	0.070	0.115
191	15.92	0.63	0.185	(0.216)	0.070	0.115
192	16.00	0.63	0.185	(0.215)	0.070	0.115
193	16.08	0.13	0.039	(0.214)	0.015	0.024
194	16.17	0.13	0.039	(0.213)	0.015	0.024
195	16.25	0.13	0.039	(0.212)	0.015	0.024
196	16.33	0.13	0.039	(0.211)	0.015	0.024
197	16.42	0.13	0.039	(0.210)	0.015	0.024
198	16.50	0.13	0.039	(0.209)	0.015	0.024
199	16.58	0.10	0.029	(0.208)	0.011	0.018
200	16.67	0.10	0.029	(0.207)	0.011	0.018
201	16.75	0.10	0.029	(0.205)	0.011	0.018
202	16.83	0.10	0.029	(0.204)	0.011	0.018
203	16.92	0.10	0.029	(0.203)	0.011	0.018
204	17.00	0.10	0.029	(0.202)	0.011	0.018
205	17.08	0.17	0.049	(0.201)	0.018	0.030
206	17.17	0.17	0.049	(0.200)	0.018	0.030
207	17.25	0.17	0.049	(0.199)	0.018	0.030
208	17.33	0.17	0.049	(0.198)	0.018	0.030
209	17.42	0.17	0.049	(0.197)	0.018	0.030
210	17.50	0.17	0.049	(0.196)	0.018	0.030
211	17.58	0.17	0.049	(0.195)	0.018	0.030
212	17.67	0.17	0.049	(0.194)	0.018	0.030
213	17.75	0.17	0.049	(0.193)	0.018	0.030
214	17.83	0.13	0.039	(0.192)	0.015	0.024
215	17.92	0.13	0.039	(0.192)	0.015	0.024
216	18.00	0.13	0.039	(0.191)	0.015	0.024
217	18.08	0.13	0.039	(0.190)	0.015	0.024
218	18.17	0.13	0.039	(0.189)	0.015	0.024
219	18.25	0.13	0.039	(0.188)	0.015	0.024
220	18.33	0.13	0.039	(0.187)	0.015	0.024
221	18.42	0.13	0.039	(0.186)	0.015	0.024
222	18.50	0.13	0.039	(0.185)	0.015	0.024
223	18.58	0.10	0.029	(0.184)	0.011	0.018
224	18.67	0.10	0.029	(0.183)	0.011	0.018
225	18.75	0.10	0.029	(0.182)	0.011	0.018
226	18.83	0.07	0.019	(0.182)	0.007	0.012
227	18.92	0.07	0.019	(0.181)	0.007	0.012
228	19.00	0.07	0.019	(0.180)	0.007	0.012
229	19.08	0.10	0.029	(0.179)	0.011	0.018
230	19.17	0.10	0.029	(0.178)	0.011	0.018
231	19.25	0.10	0.029	(0.177)	0.011	0.018
232	19.33	0.13	0.039	(0.176)	0.015	0.024
233	19.42	0.13	0.039	(0.176)	0.015	0.024
234	19.50	0.13	0.039	(0.175)	0.015	0.024
235	19.58	0.10	0.029	(0.174)	0.011	0.018
236	19.67	0.10	0.029	(0.173)	0.011	0.018
237	19.75	0.10	0.029	(0.172)	0.011	0.018
238	19.83	0.07	0.019	(0.172)	0.007	0.012
239	19.92	0.07	0.019	(0.171)	0.007	0.012
240	20.00	0.07	0.019	(0.170)	0.007	0.012
241	20.08	0.10	0.029	(0.169)	0.011	0.018
242	20.17	0.10	0.029	(0.169)	0.011	0.018
243	20.25	0.10	0.029	(0.168)	0.011	0.018
244	20.33	0.10	0.029	(0.167)	0.011	0.018
245	20.42	0.10	0.029	(0.166)	0.011	0.018
246	20.50	0.10	0.029	(0.166)	0.011	0.018
247	20.58	0.10	0.029	(0.165)	0.011	0.018
248	20.67	0.10	0.029	(0.164)	0.011	0.018

249	20.75	0.10	0.029	(0.164)	0.011	0.018
250	20.83	0.07	0.019	(0.163)	0.007	0.012
251	20.92	0.07	0.019	(0.162)	0.007	0.012
252	21.00	0.07	0.019	(0.162)	0.007	0.012
253	21.08	0.10	0.029	(0.161)	0.011	0.018
254	21.17	0.10	0.029	(0.160)	0.011	0.018
255	21.25	0.10	0.029	(0.160)	0.011	0.018
256	21.33	0.07	0.019	(0.159)	0.007	0.012
257	21.42	0.07	0.019	(0.159)	0.007	0.012
258	21.50	0.07	0.019	(0.158)	0.007	0.012
259	21.58	0.10	0.029	(0.157)	0.011	0.018
260	21.67	0.10	0.029	(0.157)	0.011	0.018
261	21.75	0.10	0.029	(0.156)	0.011	0.018
262	21.83	0.07	0.019	(0.156)	0.007	0.012
263	21.92	0.07	0.019	(0.155)	0.007	0.012
264	22.00	0.07	0.019	(0.155)	0.007	0.012
265	22.08	0.10	0.029	(0.154)	0.011	0.018
266	22.17	0.10	0.029	(0.154)	0.011	0.018
267	22.25	0.10	0.029	(0.153)	0.011	0.018
268	22.33	0.07	0.019	(0.153)	0.007	0.012
269	22.42	0.07	0.019	(0.152)	0.007	0.012
270	22.50	0.07	0.019	(0.152)	0.007	0.012
271	22.58	0.07	0.019	(0.151)	0.007	0.012
272	22.67	0.07	0.019	(0.151)	0.007	0.012
273	22.75	0.07	0.019	(0.151)	0.007	0.012
274	22.83	0.07	0.019	(0.150)	0.007	0.012
275	22.92	0.07	0.019	(0.150)	0.007	0.012
276	23.00	0.07	0.019	(0.149)	0.007	0.012
277	23.08	0.07	0.019	(0.149)	0.007	0.012
278	23.17	0.07	0.019	(0.149)	0.007	0.012
279	23.25	0.07	0.019	(0.148)	0.007	0.012
280	23.33	0.07	0.019	(0.148)	0.007	0.012
281	23.42	0.07	0.019	(0.148)	0.007	0.012
282	23.50	0.07	0.019	(0.148)	0.007	0.012
283	23.58	0.07	0.019	(0.147)	0.007	0.012
284	23.67	0.07	0.019	(0.147)	0.007	0.012
285	23.75	0.07	0.019	(0.147)	0.007	0.012
286	23.83	0.07	0.019	(0.147)	0.007	0.012
287	23.92	0.07	0.019	(0.147)	0.007	0.012
288	24.00	0.07	0.019	(0.147)	0.007	0.012

(Loss Rate Not Used)

Sum = 100.0 Sum = 18.1

Flood volume = Effective rainfall 1.51(In)
times area 9.9(Ac.)/[(In)/(Ft.)] = 1.2(Ac.Ft)
Total soil loss = 0.92(In)
Total soil loss = 0.760(Ac.Ft)
Total rainfall = 2.43(In)
Flood volume = 54031.0 Cubic Feet
Total soil loss = 33115.8 Cubic Feet

Peak flow rate of this hydrograph = 2.041(CFS)

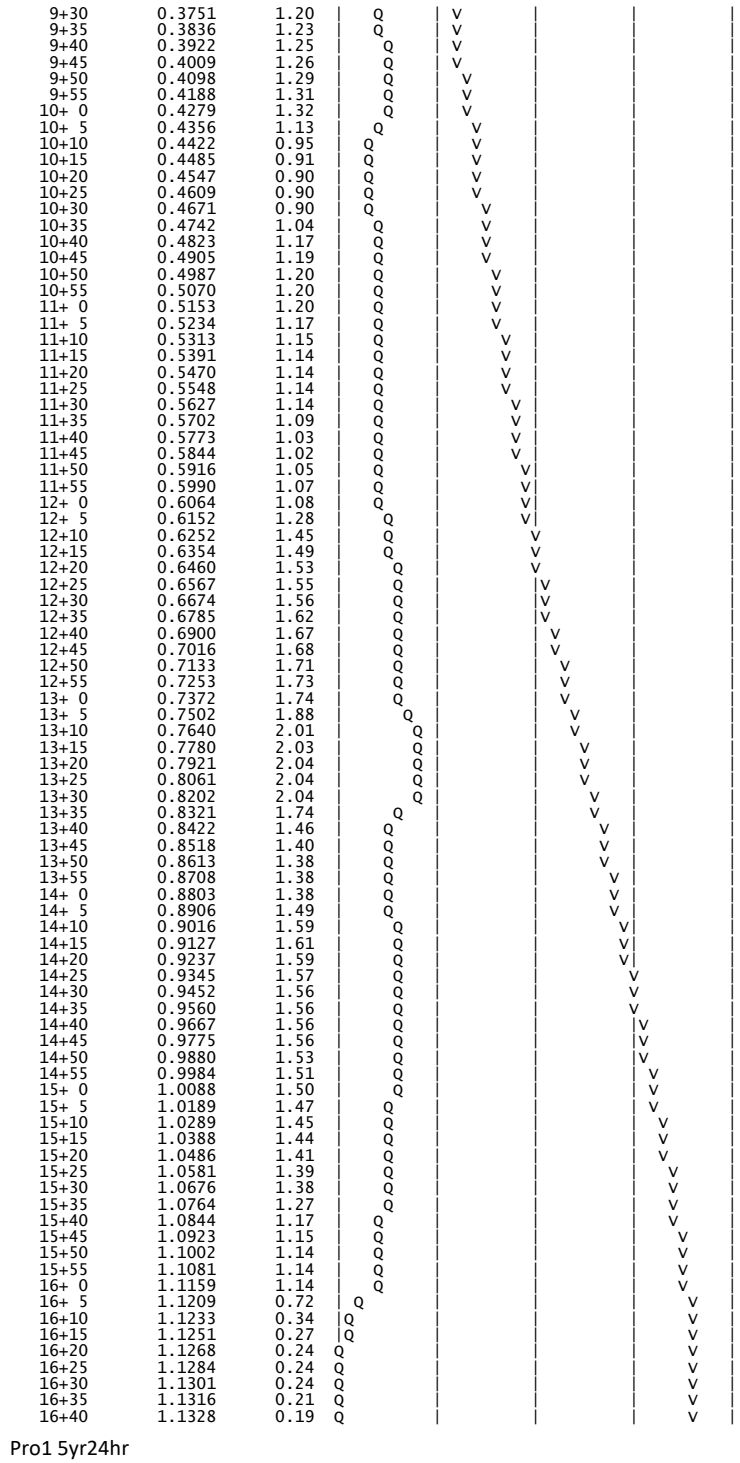
++

24 - 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 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0004	0.06	Q				
0+10	0.0011	0.11	Q				
0+15	0.0019	0.12	Q				
0+20	0.0029	0.15	Q				
0+25	0.0041	0.17	Q				
0+30	0.0054	0.18	Q				
0+35	0.0066	0.18	Q				
0+40	0.0078	0.18	Q				
0+45	0.0091	0.18	Q				
0+50	0.0105	0.21	Q				
0+55	0.0121	0.23	Q				
1+ 0	0.0137	0.24	Q				
1+ 5	0.0152	0.21	Q				
1+10	0.0165	0.19	Q				
1+15	0.0178	0.18	Q				
1+20	0.0190	0.18	Q				
1+25	0.0202	0.18	Q				
1+30	0.0215	0.18	Q				
1+35	0.0227	0.18	Q				
1+40	0.0240	0.18	Q				
1+45	0.0252	0.18	Q				
1+50	0.0266	0.21	Q				
1+55	0.0282	0.23	Q				
2+ 0	0.0299	0.24	Q				
2+ 5	0.0315	0.24	QV				
2+10	0.0332	0.24	QV				

2+15	0.0348	0.24	QV	|	|	|	|
2+20	0.0365	0.24	QV	|	|	|	|
2+25	0.0381	0.24	QV	|	|	|	|
2+30	0.0398	0.24	QV	|	|	|	|
2+35	0.0416	0.27	|Q	|	|	|	|
2+40	0.0437	0.29	|Q	|	|	|	|
2+45	0.0457	0.30	|Q	|	|	|	|
2+50	0.0478	0.30	|Q	|	|	|	|
2+55	0.0499	0.30	|Q	|	|	|	|
3+ 0	0.0519	0.30	|Q	|	|	|	|
3+ 5	0.0540	0.30	|Q	|	|	|	|
3+10	0.0561	0.30	|Q	|	|	|	|
3+15	0.0581	0.30	|Q	|	|	|	|
3+20	0.0602	0.30	|Q	|	|	|	|
3+25	0.0623	0.30	|QV	|	|	|	|
3+30	0.0643	0.30	|QV	|	|	|	|
3+35	0.0664	0.30	|QV	|	|	|	|
3+40	0.0685	0.30	|QV	|	|	|	|
3+45	0.0705	0.30	|QV	|	|	|	|
3+50	0.0728	0.33	|QV	|	|	|	|
3+55	0.0752	0.35	|QV	|	|	|	|
4+ 0	0.0777	0.36	|QV	|	|	|	|
4+ 5	0.0802	0.36	|QV	|	|	|	|
4+10	0.0826	0.36	|QV	|	|	|	|
4+15	0.0851	0.36	|QV	|	|	|	|
4+20	0.0878	0.39	|QV	|	|	|	|
4+25	0.0906	0.41	|QV	|	|	|	|
4+30	0.0935	0.42	|Q V	|	|	|	|
4+35	0.0964	0.42	|Q V	|	|	|	|
4+40	0.0993	0.42	|Q V	|	|	|	|
4+45	0.1022	0.42	|Q V	|	|	|	|
4+50	0.1053	0.45	|Q V	|	|	|	|
4+55	0.1086	0.47	|Q V	|	|	|	|
5+ 0	0.1118	0.48	|Q V	|	|	|	|
5+ 5	0.1148	0.42	|Q V	|	|	|	|
5+10	0.1173	0.37	|Q V	|	|	|	|
5+15	0.1199	0.36	|Q V	|	|	|	|
5+20	0.1225	0.39	|Q V	|	|	|	|
5+25	0.1254	0.41	|Q V	|	|	|	|
5+30	0.1283	0.42	|Q V	|	|	|	|
5+35	0.1313	0.45	|Q V	|	|	|	|
5+40	0.1346	0.47	|Q V	|	|	|	|
5+45	0.1379	0.48	|Q V	|	|	|	|
5+50	0.1412	0.48	|Q V	|	|	|	|
5+55	0.1445	0.48	|Q V	|	|	|	|
6+ 0	0.1478	0.48	|Q V	|	|	|	|
6+ 5	0.1513	0.51	| Q V	|	|	|	|
6+10	0.1550	0.53	| Q V	|	|	|	|
6+15	0.1587	0.54	| Q V	|	|	|	|
6+20	0.1624	0.54	| Q V	|	|	|	|
6+25	0.1661	0.54	| Q V	|	|	|	|
6+30	0.1699	0.54	| Q V	|	|	|	|
6+35	0.1738	0.57	| Q V	|	|	|	|
6+40	0.1779	0.59	| Q V	|	|	|	|
6+45	0.1820	0.60	| Q V	|	|	|	|
6+50	0.1861	0.60	| Q V	|	|	|	|
6+55	0.1902	0.60	| Q V	|	|	|	|
7+ 0	0.1944	0.60	| Q V	|	|	|	|
7+ 5	0.1985	0.60	| Q V	|	|	|	|
7+10	0.2027	0.60	| Q V	|	|	|	|
7+15	0.2068	0.60	| Q V	|	|	|	|
7+20	0.2111	0.63	| Q V	|	|	|	|
7+25	0.2156	0.65	| Q V	|	|	|	|
7+30	0.2201	0.66	| Q V	|	|	|	|
7+35	0.2249	0.69	| Q V	|	|	|	|
7+40	0.2298	0.71	| Q V	|	|	|	|
7+45	0.2347	0.72	| Q V	|	|	|	|
7+50	0.2399	0.75	| Q V	|	|	|	|
7+55	0.2452	0.77	| Q V	|	|	|	|
8+ 0	0.2506	0.78	| Q V	|	|	|	|
8+ 5	0.2563	0.84	| Q V	|	|	|	|
8+10	0.2625	0.89	| Q V	|	|	|	|
8+15	0.2686	0.90	| Q V	|	|	|	|
8+20	0.2748	0.90	| Q V	|	|	|	|
8+25	0.2810	0.90	| Q V|	|	|	|	|
8+30	0.2872	0.90	| Q V|	|	|	|	|
8+35	0.2936	0.93	| Q V|	|	|	|	|
8+40	0.3002	0.95	| Q V|	|	|	|	|
8+45	0.3068	0.96	| Q V|	|	|	|	|
8+50	0.3136	0.99	| Q V	|	|	|	|
8+55	0.3206	1.01	| Q V	|	|	|	|
9+ 0	0.3276	1.02	| Q V	|	|	|	|
9+ 5	0.3350	1.08	| Q V	|	|	|	|
9+10	0.3428	1.13	| Q |V	|	|	|	|
9+15	0.3506	1.14	| Q |V	|	|	|	|
9+20	0.3586	1.17	| Q |V	|	|	|	|
9+25	0.3669	1.19	| Q |V	|	|	|	|



9+30	0.3751	1.20	Q	V			
9+35	0.3836	1.23	Q	V			
9+40	0.3922	1.25	Q	V			
9+45	0.4009	1.26	Q	V			
9+50	0.4098	1.29	Q	V			
9+55	0.4188	1.31	Q	V			
10+ 0	0.4279	1.32	Q	V			
10+ 5	0.4356	1.13	Q	V			
10+10	0.4422	0.95	Q	V			
10+15	0.4485	0.91	Q	V			
10+20	0.4547	0.90	Q	V			
10+25	0.4609	0.90	Q	V			
10+30	0.4671	0.90	Q	V			
10+35	0.4742	1.04	Q	V			
10+40	0.4823	1.17	Q	V			
10+45	0.4905	1.19	Q	V			
10+50	0.4987	1.20	Q	V			
10+55	0.5070	1.20	Q	V			
11+ 0	0.5153	1.20	Q	V			
11+ 5	0.5234	1.17	Q	V			
11+10	0.5313	1.15	Q	V			
11+15	0.5391	1.14	Q	V			
11+20	0.5470	1.14	Q	V			
11+25	0.5548	1.14	Q	V			
11+30	0.5627	1.14	Q	V			
11+35	0.5702	1.09	Q	V			
11+40	0.5773	1.03	Q	V			
11+45	0.5844	1.02	Q	V			
11+50	0.5916	1.05	Q	V			
11+55	0.5990	1.07	Q	V			
12+ 0	0.6064	1.08	Q	V			
12+ 5	0.6152	1.28	Q	V			
12+10	0.6252	1.45	Q	V			
12+15	0.6354	1.49	Q	V			
12+20	0.6460	1.53	Q	V			
12+25	0.6567	1.55	Q	V			
12+30	0.6674	1.56	Q	V			
12+35	0.6785	1.62	Q	V			
12+40	0.6900	1.67	Q	V			
12+45	0.7016	1.68	Q	V			
12+50	0.7133	1.71	Q	V			
12+55	0.7253	1.73	Q	V			
13+ 0	0.7372	1.74	Q	V			
13+ 5	0.7502	1.88	Q	V			
13+10	0.7640	2.01	Q	V			
13+15	0.7780	2.03	Q	V			
13+20	0.7921	2.04	Q	V			
13+25	0.8061	2.04	Q	V			
13+30	0.8202	2.04	Q	V			
13+35	0.8321	1.74	Q	V			
13+40	0.8422	1.46	Q	V			
13+45	0.8518	1.40	Q	V			
13+50	0.8613	1.38	Q	V			
13+55	0.8708	1.38	Q	V			
14+ 0	0.8803	1.38	Q	V			
14+ 5	0.8906	1.49	Q	V			
14+10	0.9016	1.59	Q	V			
14+15	0.9127	1.61	Q	V			
14+20	0.9237	1.59	Q	V			
14+25	0.9345	1.57	Q	V			
14+30	0.9452	1.56	Q	V			
14+35	0.9560	1.56	Q	V			
14+40	0.9667	1.56	Q	V			
14+45	0.9775	1.56	Q	V			
14+50	0.9880	1.53	Q	V			
14+55	0.9984	1.51	Q	V			
15+ 0	1.0088	1.50	Q	V			
15+ 5	1.0189	1.47	Q	V			
15+10	1.0289	1.45	Q	V			
15+15	1.0388	1.44	Q	V			
15+20	1.0486	1.41	Q	V			
15+25	1.0581	1.39	Q	V			
15+30	1.0676	1.38	Q	V			
15+35	1.0764	1.27	Q	V			
15+40	1.0844	1.17	Q	V			
15+45	1.0923	1.15	Q	V			
15+50	1.1002	1.14	Q	V			
15+55	1.1081	1.14	Q	V			
16+ 0	1.1159	1.14	Q	V			
16+ 5	1.1209	0.72	Q	V			
16+10	1.1233	0.34	Q	V			
16+15	1.1251	0.27	Q	V			
16+20	1.1268	0.24	Q	V			
16+25	1.1284	0.24	Q	V			
16+30	1.1301	0.24	Q	V			
16+35	1.1316	0.21	Q	V			
16+40	1.1328	0.19	Q	V			

16+45	1.1341	0.18	Q	|	|	|	V |
16+50	1.1353	0.18	Q	|	|	|	V |
16+55	1.1366	0.18	Q	|	|	|	V |
17+ 0	1.1378	0.18	Q	|	|	|	V |
17+ 5	1.1394	0.24	Q	|	|	|	V |
17+10	1.1414	0.29	|Q	|	|	|	V |
17+15	1.1435	0.30	|Q	|	|	|	V |
17+20	1.1455	0.30	|Q	|	|	|	V |
17+25	1.1476	0.30	|Q	|	|	|	V |
17+30	1.1497	0.30	|Q	|	|	|	V |
17+35	1.1517	0.30	|Q	|	|	|	V |
17+40	1.1538	0.30	|Q	|	|	|	V |
17+45	1.1559	0.30	|Q	|	|	|	V |
17+50	1.1577	0.27	|Q	|	|	|	V |
17+55	1.1594	0.25	Q	|	|	|	V |
18+ 0	1.1611	0.24	Q	|	|	|	V |
18+ 5	1.1628	0.24	Q	|	|	|	V |
18+10	1.1644	0.24	Q	|	|	|	V |
18+15	1.1661	0.24	Q	|	|	|	V |
18+20	1.1677	0.24	Q	|	|	|	V |
18+25	1.1694	0.24	Q	|	|	|	V |
18+30	1.1710	0.24	Q	|	|	|	V |
18+35	1.1725	0.21	Q	|	|	|	V |
18+40	1.1738	0.19	Q	|	|	|	V |
18+45	1.1750	0.18	Q	|	|	|	V |
18+50	1.1761	0.15	Q	|	|	|	V |
18+55	1.1770	0.13	Q	|	|	|	V |
19+ 0	1.1778	0.12	Q	|	|	|	V |
19+ 5	1.1788	0.15	Q	|	|	|	V |
19+10	1.1800	0.17	Q	|	|	|	V |
19+15	1.1812	0.18	Q	|	|	|	V |
19+20	1.1827	0.21	Q	|	|	|	V |
19+25	1.1843	0.23	Q	|	|	|	V |
19+30	1.1859	0.24	Q	|	|	|	V |
19+35	1.1874	0.21	Q	|	|	|	V |
19+40	1.1887	0.19	Q	|	|	|	V |
19+45	1.1899	0.18	Q	|	|	|	V |
19+50	1.1910	0.15	Q	|	|	|	V |
19+55	1.1918	0.13	Q	|	|	|	V |
20+ 0	1.1927	0.12	Q	|	|	|	V |
20+ 5	1.1937	0.15	Q	|	|	|	V |
20+10	1.1949	0.17	Q	|	|	|	V |
20+15	1.1961	0.18	Q	|	|	|	V |
20+20	1.1974	0.18	Q	|	|	|	V |
20+25	1.1986	0.18	Q	|	|	|	V |
20+30	1.1998	0.18	Q	|	|	|	V |
20+35	1.2011	0.18	Q	|	|	|	V |
20+40	1.2023	0.18	Q	|	|	|	V |
20+45	1.2036	0.18	Q	|	|	|	V |
20+50	1.2046	0.15	Q	|	|	|	V |
20+55	1.2055	0.13	Q	|	|	|	V |
21+ 0	1.2063	0.12	Q	|	|	|	V |
21+ 5	1.2073	0.15	Q	|	|	|	V |
21+10	1.2085	0.17	Q	|	|	|	V |
21+15	1.2098	0.18	Q	|	|	|	V|
21+20	1.2108	0.15	Q	|	|	|	V|
21+25	1.2117	0.13	Q	|	|	|	V|
21+30	1.2125	0.12	Q	|	|	|	V|
21+35	1.2135	0.15	Q	|	|	|	V|
21+40	1.2147	0.17	Q	|	|	|	V|
21+45	1.2160	0.18	Q	|	|	|	V|
21+50	1.2170	0.15	Q	|	|	|	V|
21+55	1.2179	0.13	Q	|	|	|	V|
22+ 0	1.2187	0.12	Q	|	|	|	V|
22+ 5	1.2197	0.15	Q	|	|	|	V|
22+10	1.2209	0.17	Q	|	|	|	V|
22+15	1.2222	0.18	Q	|	|	|	V|
22+20	1.2232	0.15	Q	|	|	|	V|
22+25	1.2241	0.13	Q	|	|	|	V|
22+30	1.2249	0.12	Q	|	|	|	V|
22+35	1.2258	0.12	Q	|	|	|	V|
22+40	1.2266	0.12	Q	|	|	|	V|
22+45	1.2274	0.12	Q	|	|	|	V|
22+50	1.2282	0.12	Q	|	|	|	V|
22+55	1.2291	0.12	Q	|	|	|	V|
23+ 0	1.2299	0.12	Q	|	|	|	V|
23+ 5	1.2307	0.12	Q	|	|	|	V|
23+10	1.2315	0.12	Q	|	|	|	V|
23+15	1.2324	0.12	Q	|	|	|	V|
23+20	1.2332	0.12	Q	|	|	|	V|
23+25	1.2340	0.12	Q	|	|	|	V|
23+30	1.2349	0.12	Q	|	|	|	V|
23+35	1.2357	0.12	Q	|	|	|	V|
23+40	1.2365	0.12	Q	|	|	|	V|
23+45	1.2373	0.12	Q	|	|	|	V|
23+50	1.2382	0.12	Q	|	|	|	V|
23+55	1.2390	0.12	Q	|	|	|	V|

```
   24+ 0       1.2398      0.12  Q          |          |          |        V|
   24+ 5       1.2403      0.06  Q          |          |          |        V|
   24+10       1.2404      0.01  Q          |          |          |        V|
   24+15       1.2404      0.00  Q          |          |          |         V
-------------------------------------------------------------------------------
```

```
       U n i t   H y d r o g r a p h   A n a l y s i s

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              Study date  03/01/22 File: pro110110.out

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------------------------------------------------------------------------------

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       9.87(Ac.)  =      0.015 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       9.87(Ac.)  =      0.015 Sq. Mi.
Length along longest watercourse =    1180.00(Ft.)
Length along longest watercourse measured to centroid =     590.00(Ft.)
Length along longest watercourse =      0.223 Mi.
Length along longest watercourse measured to centroid =      0.112 Mi.
Difference in elevation =      18.60(Ft.)
Slope along watercourse =     83.2271 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time =    0.038 Hr.
Lag time =     2.29 Min.
25% of lag time =     0.57 Min.
40% of lag time =     0.92 Min.
Unit time =     5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            0.50                 4.93

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            1.20                11.84

STORM EVENT (YEAR) =   10.00
Area Averaged 2-Year Rainfall =    0.500(In)
Area Averaged 100-Year Rainfall =    1.200(In)

Point rain (area averaged) =    0.788(In)
Areal adjustment factor =   99.99 %
Adjusted average point rain =    0.788(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     9.870           56.00          0.650
 Total Area Entered =      9.87(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-2     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
56.0  56.0      0.511     0.650        0.212       1.000      0.212
                                                 Sum (F) =   0.212
Area averaged mean soil loss (F) (In/Hr) =  0.212
Minimum soil loss rate ((In/Hr)) =  0.106
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.380
------------------------------------------------------------------------
Slope of intensity-duration curve for a 1 hour storm =0.5000
------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
------------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
```

```
        (hrs)                          Graph %            (CFS)
      ------------------------------------------------------------------------
         1   0.083        217.936         46.337              4.609
         2   0.167        435.872         42.135              4.191
         3   0.250        653.809          8.112              0.807
         4   0.333        871.745          3.415              0.340
                                  Sum = 100.000    Sum=        9.947
    ------------------------------------------------------------------------


 The following loss rate calculations reflect use of the minimum calculated loss
 rate subtracted from the Storm Rain to produce the maximum Effective Rain value

  Unit Time   Pattern   Storm Rain     Loss rate(In./Hr)     Effective
       (Hr.)  Percent   (In/Hr)         Max    |   Low        (In/Hr)
    1   0.08     4.20      0.397       (  0.212)       0.151        0.246
    2   0.17     4.30      0.407       (  0.212)       0.154        0.252
    3   0.25     5.00      0.473       (  0.212)       0.180        0.293
    4   0.33     5.00      0.473       (  0.212)       0.180        0.293
    5   0.42     5.80      0.548       (  0.212)       0.208        0.340
    6   0.50     6.50      0.615          0.212    (  0.234)        0.403
    7   0.58     7.40      0.700          0.212    (  0.266)        0.488
    8   0.67     8.60      0.813          0.212    (  0.309)        0.601
    9   0.75    12.30      1.163          0.212    (  0.442)        0.951
   10   0.83    29.10      2.751          0.212    (  1.046)        2.539
   11   0.92     6.80      0.643          0.212    (  0.244)        0.431
   12   1.00     5.00      0.473       (  0.212)       0.180        0.293
              (Loss Rate Not Used)
      Sum =     100.0                                  Sum =     7.1
        Flood volume = Effective rainfall      0.59(In)
         times area       9.9(Ac.)/[(In)/(Ft.)] =       0.5(Ac.Ft)
        Total soil loss =      0.19(In)
        Total soil loss =     0.159(Ac.Ft)
        Total rainfall =      0.79(In)
        Flood volume =       21289.0 Cubic Feet
        Total soil loss =        6940.5 Cubic Feet
        ---------------------------------------------------------------------
         Peak flow rate of this hydrograph =     16.350(CFS)
        ---------------------------------------------------------------------
        +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                           1 - 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   5   Minute intervals ((CFS))

        ---------------------------------------------------------------------
  Time(h+m) Volume Ac.Ft   Q(CFS)  0         5.0       10.0      15.0      20.0
  ------------------------------------------------------------------------
    0+ 5       0.0078      1.14  V Q        |         |         |         |
    0+10       0.0229      2.19  |V  Q      |         |         |         |
    0+15       0.0409      2.61  |  V Q     |         |         |         |
    0+20       0.0606      2.87  |   VQ     |         |         |         |
    0+25       0.0821      3.12  |     Q    |         |         |         |
    0+30       0.1071      3.62  |      QV  |         |         |         |
    0+35       0.1367      4.31  |       Q  |V        |         |         |
    0+40       0.1730      5.26  |         Q   V       |         |         |
    0+45       0.2242      7.44  |          |   Q   V  |         |         |
    0+50       0.3368     16.35  |          |          |       V |  Q      |
    0+55       0.4305     13.61  |          |          |       Q |     V   |
    1+ 0       0.4686      5.53  |          |Q         |         |       V |
    1+ 5       0.4854      2.44  |   Q      |          |         |         V|
    1+10       0.4880      0.38  Q          |          |         |         V|
    1+15       0.4887      0.10  Q          |          |         |         V|
  ------------------------------------------------------------------------
```

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       U n i t   H y d r o g r a p h   A n a l y s i s

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              Study date  03/01/22 File: pro110310.out

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------------------------------------------------------------------------------

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       9.87(Ac.)  =      0.015 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       9.87(Ac.)  =      0.015 Sq. Mi.
Length along longest watercourse =    1180.00(Ft.)
Length along longest watercourse measured to centroid =     590.00(Ft.)
Length along longest watercourse =      0.223 Mi.
Length along longest watercourse measured to centroid =      0.112 Mi.
Difference in elevation =      18.60(Ft.)
Slope along watercourse =     83.2271 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time =    0.038 Hr.
Lag time =     2.29 Min.
25% of lag time =     0.57 Min.
40% of lag time =     0.92 Min.
Unit time =     5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            0.80                 7.90

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            1.90                18.75

STORM EVENT (YEAR) =   10.00
Area Averaged 2-Year Rainfall =    0.800(In)
Area Averaged 100-Year Rainfall =    1.900(In)

Point rain (area averaged) =    1.253(In)
Areal adjustment factor =  100.00 %
Adjusted average point rain =    1.252(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     9.870           56.00          0.650
 Total Area Entered =      9.87(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-2     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
56.0  56.0      0.511     0.650        0.212       1.000      0.212
                                                 Sum (F) =   0.212
Area averaged mean soil loss (F) (In/Hr) =  0.212
Minimum soil loss rate ((In/Hr)) =  0.106
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.380
------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
------------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
    (hrs)                          Graph %           (CFS)
------------------------------------------------------------------------
```

1	0.083	217.936	46.337	4.609
2	0.167	435.872	42.135	4.191
3	0.250	653.809	8.112	0.807
4	0.333	871.745	3.415	0.340
		Sum = 100.000	Sum=	9.947

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	1.30	0.195	(0.212)	0.074	0.121
2	0.17	1.30	0.195	(0.212)	0.074	0.121
3	0.25	1.10	0.165	(0.212)	0.063	0.103
4	0.33	1.50	0.225	(0.212)	0.086	0.140
5	0.42	1.50	0.225	(0.212)	0.086	0.140
6	0.50	1.80	0.271	(0.212)	0.103	0.168
7	0.58	1.50	0.225	(0.212)	0.086	0.140
8	0.67	1.80	0.271	(0.212)	0.103	0.168
9	0.75	1.80	0.271	(0.212)	0.103	0.168
10	0.83	1.50	0.225	(0.212)	0.086	0.140
11	0.92	1.60	0.240	(0.212)	0.091	0.149
12	1.00	1.80	0.271	(0.212)	0.103	0.168
13	1.08	2.20	0.331	(0.212)	0.126	0.205
14	1.17	2.20	0.331	(0.212)	0.126	0.205
15	1.25	2.20	0.331	(0.212)	0.126	0.205
16	1.33	2.00	0.301	(0.212)	0.114	0.186
17	1.42	2.60	0.391	(0.212)	0.148	0.242
18	1.50	2.70	0.406	(0.212)	0.154	0.252
19	1.58	2.40	0.361	(0.212)	0.137	0.224
20	1.67	2.70	0.406	(0.212)	0.154	0.252
21	1.75	3.30	0.496	(0.212)	0.188	0.308
22	1.83	3.10	0.466	(0.212)	0.177	0.289
23	1.92	2.90	0.436	(0.212)	0.166	0.270
24	2.00	3.00	0.451	(0.212)	0.171	0.280
25	2.08	3.10	0.466	(0.212)	0.177	0.289
26	2.17	4.20	0.631	0.212	(0.240)	0.419
27	2.25	5.00	0.751	0.212	(0.286)	0.540
28	2.33	3.50	0.526	(0.212)	0.200	0.326
29	2.42	6.80	1.022	0.212	(0.388)	0.810
30	2.50	7.30	1.097	0.212	(0.417)	0.885
31	2.58	8.20	1.232	0.212	(0.468)	1.020
32	2.67	5.90	0.887	0.212	(0.337)	0.675
33	2.75	2.00	0.301	(0.212)	0.114	0.186
34	2.83	1.80	0.271	(0.212)	0.103	0.168
35	2.92	1.80	0.271	(0.212)	0.103	0.168
36	3.00	0.60	0.090	(0.212)	0.034	0.056
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	10.2

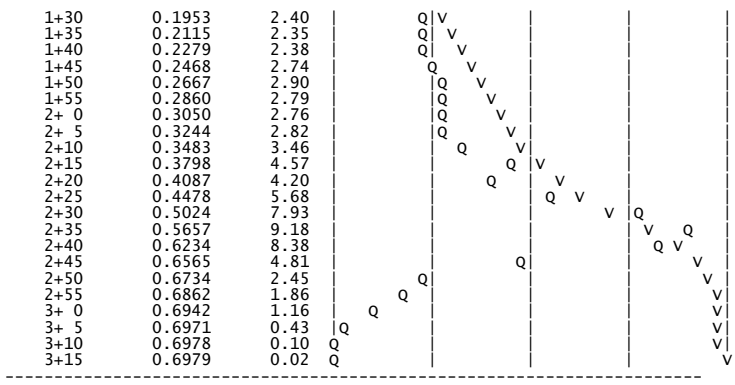
Flood volume = Effective rainfall 0.85(In)
times area 9.9(Ac.)/[(In)/(Ft.)] = 0.7(Ac.Ft)
Total soil loss = 0.40(In)
Total soil loss = 0.332(Ac.Ft)
Total rainfall = 1.25(In)
Flood volume = 30402.3 Cubic Feet
Total soil loss = 14472.2 Cubic Feet

Peak flow rate of this hydrograph = 9.183(CFS)

3 - 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 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0038	0.56	V Q				
0+10	0.0112	1.07	V Q				
0+15	0.0186	1.08	V Q				
0+20	0.0270	1.21	V Q				
0+25	0.0363	1.35	V Q				
0+30	0.0467	1.51	V Q				
0+35	0.0571	1.51	V Q				
0+40	0.0677	1.54	V Q				
0+45	0.0790	1.65	V Q				
0+50	0.0896	1.53	VQ				
0+55	0.0997	1.47	Q				
1+ 0	0.1105	1.57	Q				
1+ 5	0.1230	1.82	Q				
1+10	0.1367	1.99	Q				
1+15	0.1507	2.03	Q				
1+20	0.1641	1.95	Q V				
1+25	0.1788	2.13	Q V				


1+30 0.1953 2.40
1+35 0.2115 2.35
1+40 0.2279 2.38
1+45 0.2468 2.74
1+50 0.2667 2.90
1+55 0.2860 2.79
2+ 0 0.3050 2.76
2+ 5 0.3244 2.82
2+10 0.3483 3.46
2+15 0.3798 4.57
2+20 0.4087 4.20
2+25 0.4478 5.68
2+30 0.5024 7.93
2+35 0.5657 9.18
2+40 0.6234 8.38
2+45 0.6565 4.81
2+50 0.6734 2.45
2+55 0.6862 1.86
3+ 0 0.6942 1.16
3+ 5 0.6971 0.43
3+10 0.6978 0.10
3+15 0.6979 0.02

U n i t H y d r o g r a p h A n a l y s i s

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Study date 03/01/22 File: pro110610.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 5006

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

Drainage Area = 9.87(Ac.) = 0.015 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 9.87(Ac.) = 0.015 Sq. Mi.
Length along longest watercourse = 1180.00(Ft.)
Length along longest watercourse measured to centroid = 590.00(Ft.)
Length along longest watercourse = 0.223 Mi.
Length along longest watercourse measured to centroid = 0.112 Mi.
Difference in elevation = 18.60(Ft.)
Slope along watercourse = 83.2271 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.038 Hr.
Lag time = 2.29 Min.
25% of lag time = 0.57 Min.
40% of lag time = 0.92 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
9.87	1.20	11.84

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
9.87	2.50	24.67

STORM EVENT (YEAR) = 10.00
Area Averaged 2-Year Rainfall = 1.200(In)
Area Averaged 100-Year Rainfall = 2.500(In)

Point rain (area averaged) = 1.735(In)
Areal adjustment factor = 100.00 %
Adjusted average point rain = 1.735(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
9.870	56.00	0.650

Total Area Entered = 9.87(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	56.0	0.511	0.650	0.212	1.000	0.212
					Sum (F) =	0.212

Area averaged mean soil loss (F) (In/Hr) = 0.212
Minimum soil loss rate ((In/Hr)) = 0.106
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.380

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

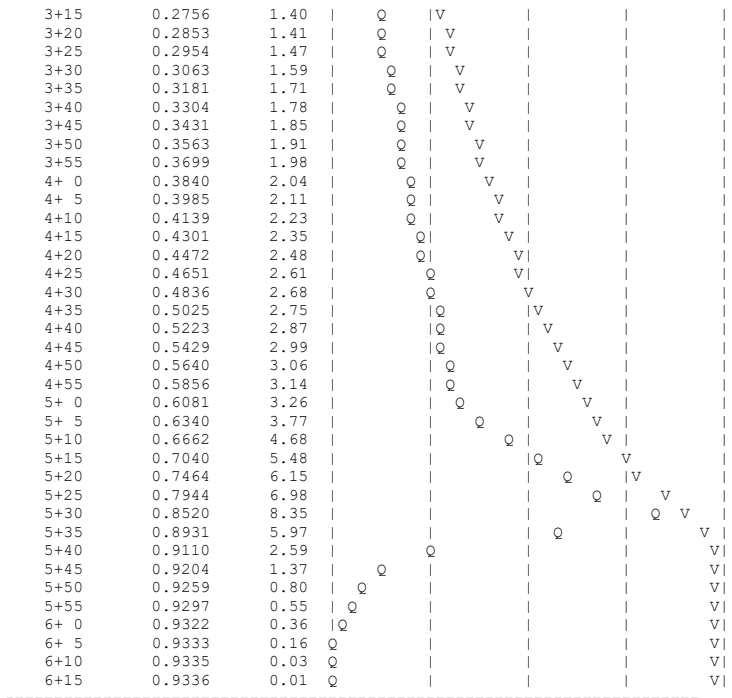
Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	217.936	46.337	4.609
2	0.167	435.872	42.135	4.191
3	0.250	653.809	8.112	0.807
4	0.333	871.745	3.415	0.340
		Sum = 100.000	Sum=	9.947

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.104	(0.212)	0.040	0.065
2	0.17	0.60	0.125	(0.212)	0.047	0.077
3	0.25	0.60	0.125	(0.212)	0.047	0.077
4	0.33	0.60	0.125	(0.212)	0.047	0.077
5	0.42	0.60	0.125	(0.212)	0.047	0.077
6	0.50	0.70	0.146	(0.212)	0.055	0.090
7	0.58	0.70	0.146	(0.212)	0.055	0.090
8	0.67	0.70	0.146	(0.212)	0.055	0.090
9	0.75	0.70	0.146	(0.212)	0.055	0.090
10	0.83	0.70	0.146	(0.212)	0.055	0.090
11	0.92	0.70	0.146	(0.212)	0.055	0.090
12	1.00	0.80	0.167	(0.212)	0.063	0.103
13	1.08	0.80	0.167	(0.212)	0.063	0.103
14	1.17	0.80	0.167	(0.212)	0.063	0.103
15	1.25	0.80	0.167	(0.212)	0.063	0.103
16	1.33	0.80	0.167	(0.212)	0.063	0.103
17	1.42	0.80	0.167	(0.212)	0.063	0.103
18	1.50	0.80	0.167	(0.212)	0.063	0.103
19	1.58	0.80	0.167	(0.212)	0.063	0.103
20	1.67	0.80	0.167	(0.212)	0.063	0.103
21	1.75	0.80	0.167	(0.212)	0.063	0.103
22	1.83	0.80	0.167	(0.212)	0.063	0.103
23	1.92	0.80	0.167	(0.212)	0.063	0.103
24	2.00	0.90	0.187	(0.212)	0.071	0.116
25	2.08	0.80	0.167	(0.212)	0.063	0.103
26	2.17	0.90	0.187	(0.212)	0.071	0.116
27	2.25	0.90	0.187	(0.212)	0.071	0.116
28	2.33	0.90	0.187	(0.212)	0.071	0.116
29	2.42	0.90	0.187	(0.212)	0.071	0.116
30	2.50	0.90	0.187	(0.212)	0.071	0.116
31	2.58	0.90	0.187	(0.212)	0.071	0.116
32	2.67	0.90	0.187	(0.212)	0.071	0.116
33	2.75	1.00	0.208	(0.212)	0.079	0.129
34	2.83	1.00	0.208	(0.212)	0.079	0.129
35	2.92	1.00	0.208	(0.212)	0.079	0.129
36	3.00	1.00	0.208	(0.212)	0.079	0.129
37	3.08	1.00	0.208	(0.212)	0.079	0.129
38	3.17	1.10	0.229	(0.212)	0.087	0.142
39	3.25	1.10	0.229	(0.212)	0.087	0.142
40	3.33	1.10	0.229	(0.212)	0.087	0.142
41	3.42	1.20	0.250	(0.212)	0.095	0.155
42	3.50	1.30	0.271	(0.212)	0.103	0.168
43	3.58	1.40	0.291	(0.212)	0.111	0.181
44	3.67	1.40	0.291	(0.212)	0.111	0.181
45	3.75	1.50	0.312	(0.212)	0.119	0.194
46	3.83	1.50	0.312	(0.212)	0.119	0.194
47	3.92	1.60	0.333	(0.212)	0.127	0.207
48	4.00	1.60	0.333	(0.212)	0.127	0.207
49	4.08	1.70	0.354	(0.212)	0.134	0.219
50	4.17	1.80	0.375	(0.212)	0.142	0.232
51	4.25	1.90	0.396	(0.212)	0.150	0.245
52	4.33	2.00	0.416	(0.212)	0.158	0.258
53	4.42	2.10	0.437	(0.212)	0.166	0.271
54	4.50	2.10	0.437	(0.212)	0.166	0.271

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55   4.58     2.20      0.458       (  0.212)       0.174        0.284
56   4.67     2.30      0.479       (  0.212)       0.182        0.297
57   4.75     2.40      0.500       (  0.212)       0.190        0.310
58   4.83     2.40      0.500       (  0.212)       0.190        0.310
59   4.92     2.50      0.520       (  0.212)       0.198        0.323
60   5.00     2.60      0.541       (  0.212)       0.206        0.336
61   5.08     3.10      0.645          0.212    (  0.245)        0.433
62   5.17     3.60      0.749          0.212    (  0.285)        0.537
63   5.25     3.90      0.812          0.212    (  0.309)        0.600
64   5.33     4.20      0.874          0.212    (  0.332)        0.662
65   5.42     4.70      0.978          0.212    (  0.372)        0.766
66   5.50     5.60      1.166          0.212    (  0.443)        0.954
67   5.58     1.90      0.396       (  0.212)       0.150        0.245
68   5.67     0.90      0.187       (  0.212)       0.071        0.116
69   5.75     0.60      0.125       (  0.212)       0.047        0.077
70   5.83     0.50      0.104       (  0.212)       0.040        0.065
71   5.92     0.30      0.062       (  0.212)       0.024        0.039
72   6.00     0.20      0.042       (  0.212)       0.016        0.026
            (Loss Rate Not Used)
   Sum =     100.0                                  Sum =    13.6
     Flood volume = Effective rainfall      1.14(In)
      times area       9.9(Ac.)/[(In)/(Ft.)] =       0.9(Ac.Ft)
     Total soil loss =      0.60(In)
     Total soil loss =     0.493(Ac.Ft)
     Total rainfall =      1.73(In)
     Flood volume =       40666.0 Cubic Feet
     Total soil loss =       21487.6 Cubic Feet
     ---------------------------------------------------------------------
      Peak flow rate of this hydrograph =      8.351(CFS)
     ---------------------------------------------------------------------
     +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                          6 - 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   5   Minute intervals ((CFS))

     ---------------------------------------------------------------------
Time(h+m) Volume Ac.Ft   Q(CFS)  0         2.5        5.0        7.5       10.0
-------------------------------------------------------------------------------
  0+ 5       0.0020      0.30  VQ        |          |          |          |
  0+10       0.0064      0.63  V Q       |          |          |          |
  0+15       0.0114      0.73  V Q       |          |          |          |
  0+20       0.0167      0.77  V  Q      |          |          |          |
  0+25       0.0220      0.77  V  Q      |          |          |          |
  0+30       0.0277      0.83  |V Q      |          |          |          |
  0+35       0.0338      0.88  |V Q      |          |          |          |
  0+40       0.0400      0.89  |V Q      |          |          |          |
  0+45       0.0462      0.90  |V Q      |          |          |          |
  0+50       0.0524      0.90  | VQ      |          |          |          |
  0+55       0.0586      0.90  | VQ      |          |          |          |
  1+ 0       0.0652      0.96  | VQ      |          |          |          |
  1+ 5       0.0721      1.01  |  VQ     |          |          |          |
  1+10       0.0792      1.02  |  VQ     |          |          |          |
  1+15       0.0863      1.03  |  VQ     |          |          |          |
  1+20       0.0933      1.03  |  VQ     |          |          |          |
  1+25       0.1004      1.03  |   Q     |          |          |          |
  1+30       0.1075      1.03  |   Q     |          |          |          |
  1+35       0.1146      1.03  |   Q     |          |          |          |
  1+40       0.1216      1.03  |   QV    |          |          |          |
  1+45       0.1287      1.03  |   QV    |          |          |          |
  1+50       0.1358      1.03  |   QV    |          |          |          |
  1+55       0.1429      1.03  |   Q V   |          |          |          |
  2+ 0       0.1504      1.09  |   Q V   |          |          |          |
  2+ 5       0.1578      1.08  |   Q V   |          |          |          |
  2+10       0.1654      1.10  |   Q  V  |          |          |          |
  2+15       0.1733      1.15  |   Q  V  |          |          |          |
  2+20       0.1812      1.15  |   Q  V  |          |          |          |
  2+25       0.1892      1.16  |   Q   V |          |          |          |
  2+30       0.1971      1.16  |   Q   V |          |          |          |
  2+35       0.2051      1.16  |   Q   V |          |          |          |
  2+40       0.2130      1.16  |   Q    V|          |          |          |
  2+45       0.2214      1.22  |   Q    V|          |          |          |
  2+50       0.2302      1.27  |    Q   V|          |          |          |
  2+55       0.2390      1.28  |    Q    V          |          |          |
  3+ 0       0.2478      1.28  |    Q    V          |          |          |
  3+ 5       0.2567      1.28  |    Q    V          |          |          |
  3+10       0.2659      1.34  |    Q    |V         |          |          |
```



3+15	0.2756	1.40	
3+20	0.2853	1.41	
3+25	0.2954	1.47	
3+30	0.3063	1.59	
3+35	0.3181	1.71	
3+40	0.3304	1.78	
3+45	0.3431	1.85	
3+50	0.3563	1.91	
3+55	0.3699	1.98	
4+ 0	0.3840	2.04	
4+ 5	0.3985	2.11	
4+10	0.4139	2.23	
4+15	0.4301	2.35	
4+20	0.4472	2.48	
4+25	0.4651	2.61	
4+30	0.4836	2.68	
4+35	0.5025	2.75	
4+40	0.5223	2.87	
4+45	0.5429	2.99	
4+50	0.5640	3.06	
4+55	0.5856	3.14	
5+ 0	0.6081	3.26	
5+ 5	0.6340	3.77	
5+10	0.6662	4.68	
5+15	0.7040	5.48	
5+20	0.7464	6.15	
5+25	0.7944	6.98	
5+30	0.8520	8.35	
5+35	0.8931	5.97	
5+40	0.9110	2.59	
5+45	0.9204	1.37	
5+50	0.9259	0.80	
5+55	0.9297	0.55	
6+ 0	0.9322	0.36	
6+ 5	0.9333	0.16	
6+10	0.9335	0.03	
6+15	0.9336	0.01	

```
       U n i t   H y d r o g r a p h   A n a l y s i s

       Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2008, Version 8.1
              Study date  03/01/22 File: pro1102410.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       9.87(Ac.)  =      0.015 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       9.87(Ac.)  =      0.015 Sq. Mi.
Length along longest watercourse =    1180.00(Ft.)
Length along longest watercourse measured to centroid =     590.00(Ft.)
Length along longest watercourse =      0.223 Mi.
Length along longest watercourse measured to centroid =      0.112 Mi.
Difference in elevation =      18.60(Ft.)
Slope along watercourse =     83.2271 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time =    0.038 Hr.
Lag time =     2.29 Min.
25% of lag time =     0.57 Min.
40% of lag time =     0.92 Min.
Unit time =     5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            1.80                 17.77

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            4.50                 44.41

STORM EVENT (YEAR) =   10.00
Area Averaged 2-Year Rainfall =    1.800(In)
Area Averaged 100-Year Rainfall =    4.500(In)

Point rain (area averaged) =    2.911(In)
Areal adjustment factor =  100.00 %
Adjusted average point rain =    2.911(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     9.870           56.00          0.650
 Total Area Entered =      9.87(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-2     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
56.0  56.0      0.511     0.650        0.212       1.000      0.212
                                                 Sum (F) =   0.212
Area averaged mean soil loss (F) (In/Hr) =  0.212
Minimum soil loss rate ((In/Hr)) =  0.106
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.380
------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
-------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
    (hrs)                          Graph %           (CFS)
------------------------------------------------------------------------
```

1	0.083	217.936	46.337	4.609
2	0.167	435.872	42.135	4.191
3	0.250	653.809	8.112	0.807
4	0.333	871.745	3.415	0.340
			Sum = 100.000 Sum=	9.947

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.023	(0.376)	0.009	0.014
2	0.17	0.07	0.023	(0.374)	0.009	0.014
3	0.25	0.07	0.023	(0.373)	0.009	0.014
4	0.33	0.10	0.035	(0.371)	0.013	0.022
5	0.42	0.10	0.035	(0.370)	0.013	0.022
6	0.50	0.10	0.035	(0.369)	0.013	0.022
7	0.58	0.10	0.035	(0.367)	0.013	0.022
8	0.67	0.10	0.035	(0.366)	0.013	0.022
9	0.75	0.10	0.035	(0.364)	0.013	0.022
10	0.83	0.13	0.047	(0.363)	0.018	0.029
11	0.92	0.13	0.047	(0.361)	0.018	0.029
12	1.00	0.13	0.047	(0.360)	0.018	0.029
13	1.08	0.10	0.035	(0.359)	0.013	0.022
14	1.17	0.10	0.035	(0.357)	0.013	0.022
15	1.25	0.10	0.035	(0.356)	0.013	0.022
16	1.33	0.10	0.035	(0.354)	0.013	0.022
17	1.42	0.10	0.035	(0.353)	0.013	0.022
18	1.50	0.10	0.035	(0.351)	0.013	0.022
19	1.58	0.10	0.035	(0.350)	0.013	0.022
20	1.67	0.10	0.035	(0.349)	0.013	0.022
21	1.75	0.10	0.035	(0.347)	0.013	0.022
22	1.83	0.13	0.047	(0.346)	0.018	0.029
23	1.92	0.13	0.047	(0.344)	0.018	0.029
24	2.00	0.13	0.047	(0.343)	0.018	0.029
25	2.08	0.13	0.047	(0.342)	0.018	0.029
26	2.17	0.13	0.047	(0.340)	0.018	0.029
27	2.25	0.13	0.047	(0.339)	0.018	0.029
28	2.33	0.13	0.047	(0.338)	0.018	0.029
29	2.42	0.13	0.047	(0.336)	0.018	0.029
30	2.50	0.13	0.047	(0.335)	0.018	0.029
31	2.58	0.17	0.058	(0.333)	0.022	0.036
32	2.67	0.17	0.058	(0.332)	0.022	0.036
33	2.75	0.17	0.058	(0.331)	0.022	0.036
34	2.83	0.17	0.058	(0.329)	0.022	0.036
35	2.92	0.17	0.058	(0.328)	0.022	0.036
36	3.00	0.17	0.058	(0.327)	0.022	0.036
37	3.08	0.17	0.058	(0.325)	0.022	0.036
38	3.17	0.17	0.058	(0.324)	0.022	0.036
39	3.25	0.17	0.058	(0.323)	0.022	0.036
40	3.33	0.17	0.058	(0.321)	0.022	0.036
41	3.42	0.17	0.058	(0.320)	0.022	0.036
42	3.50	0.17	0.058	(0.319)	0.022	0.036
43	3.58	0.17	0.058	(0.317)	0.022	0.036
44	3.67	0.17	0.058	(0.316)	0.022	0.036
45	3.75	0.17	0.058	(0.315)	0.022	0.036
46	3.83	0.20	0.070	(0.313)	0.027	0.043
47	3.92	0.20	0.070	(0.312)	0.027	0.043
48	4.00	0.20	0.070	(0.311)	0.027	0.043
49	4.08	0.20	0.070	(0.309)	0.027	0.043
50	4.17	0.20	0.070	(0.308)	0.027	0.043
51	4.25	0.20	0.070	(0.307)	0.027	0.043
52	4.33	0.23	0.082	(0.305)	0.031	0.051
53	4.42	0.23	0.082	(0.304)	0.031	0.051
54	4.50	0.23	0.082	(0.303)	0.031	0.051
55	4.58	0.23	0.082	(0.301)	0.031	0.051
56	4.67	0.23	0.082	(0.300)	0.031	0.051
57	4.75	0.23	0.082	(0.299)	0.031	0.051
58	4.83	0.27	0.093	(0.298)	0.035	0.058
59	4.92	0.27	0.093	(0.296)	0.035	0.058
60	5.00	0.27	0.093	(0.295)	0.035	0.058
61	5.08	0.20	0.070	(0.294)	0.027	0.043
62	5.17	0.20	0.070	(0.292)	0.027	0.043
63	5.25	0.20	0.070	(0.291)	0.027	0.043
64	5.33	0.23	0.082	(0.290)	0.031	0.051
65	5.42	0.23	0.082	(0.289)	0.031	0.051
66	5.50	0.23	0.082	(0.287)	0.031	0.051
67	5.58	0.27	0.093	(0.286)	0.035	0.058
68	5.67	0.27	0.093	(0.285)	0.035	0.058
69	5.75	0.27	0.093	(0.284)	0.035	0.058
70	5.83	0.27	0.093	(0.282)	0.035	0.058
71	5.92	0.27	0.093	(0.281)	0.035	0.058
72	6.00	0.27	0.093	(0.280)	0.035	0.058
73	6.08	0.30	0.105	(0.279)	0.040	0.065
74	6.17	0.30	0.105	(0.277)	0.040	0.065

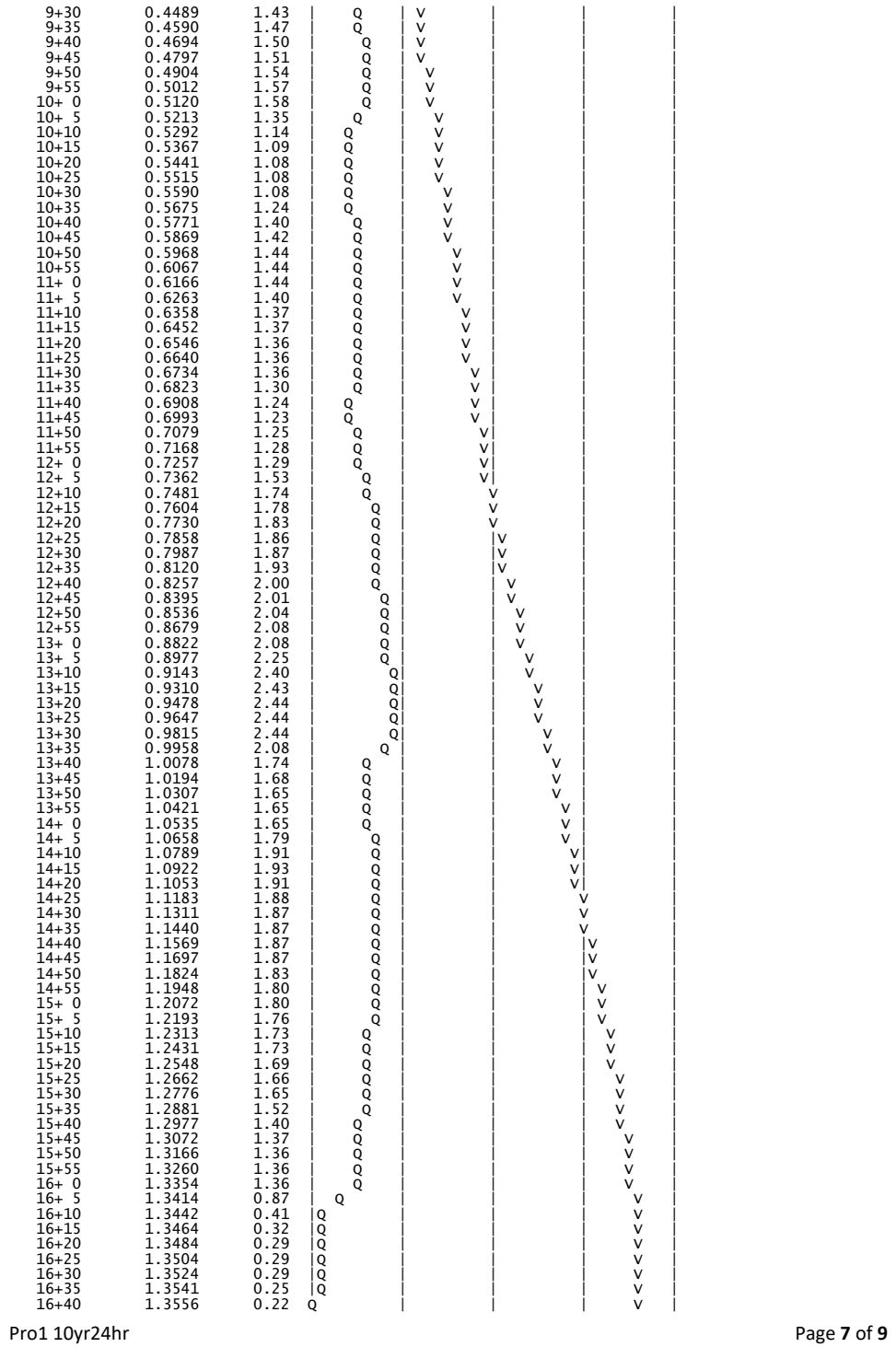
75	6.25	0.30	0.105	(0.276)	0.040	0.065
76	6.33	0.30	0.105	(0.275)	0.040	0.065
77	6.42	0.30	0.105	(0.274)	0.040	0.065
78	6.50	0.30	0.105	(0.272)	0.040	0.065
79	6.58	0.33	0.116	(0.271)	0.044	0.072
80	6.67	0.33	0.116	(0.270)	0.044	0.072
81	6.75	0.33	0.116	(0.269)	0.044	0.072
82	6.83	0.33	0.116	(0.268)	0.044	0.072
83	6.92	0.33	0.116	(0.266)	0.044	0.072
84	7.00	0.33	0.116	(0.265)	0.044	0.072
85	7.08	0.33	0.116	(0.264)	0.044	0.072
86	7.17	0.33	0.116	(0.263)	0.044	0.072
87	7.25	0.33	0.116	(0.262)	0.044	0.072
88	7.33	0.37	0.128	(0.260)	0.049	0.079
89	7.42	0.37	0.128	(0.259)	0.049	0.079
90	7.50	0.37	0.128	(0.258)	0.049	0.079
91	7.58	0.40	0.140	(0.257)	0.053	0.087
92	7.67	0.40	0.140	(0.256)	0.053	0.087
93	7.75	0.40	0.140	(0.254)	0.053	0.087
94	7.83	0.43	0.151	(0.253)	0.058	0.094
95	7.92	0.43	0.151	(0.252)	0.058	0.094
96	8.00	0.43	0.151	(0.251)	0.058	0.094
97	8.08	0.50	0.175	(0.250)	0.066	0.108
98	8.17	0.50	0.175	(0.249)	0.066	0.108
99	8.25	0.50	0.175	(0.247)	0.066	0.108
100	8.33	0.50	0.175	(0.246)	0.066	0.108
101	8.42	0.50	0.175	(0.245)	0.066	0.108
102	8.50	0.50	0.175	(0.244)	0.066	0.108
103	8.58	0.53	0.186	(0.243)	0.071	0.115
104	8.67	0.53	0.186	(0.242)	0.071	0.115
105	8.75	0.53	0.186	(0.241)	0.071	0.115
106	8.83	0.57	0.198	(0.239)	0.075	0.123
107	8.92	0.57	0.198	(0.238)	0.075	0.123
108	9.00	0.57	0.198	(0.237)	0.075	0.123
109	9.08	0.63	0.221	(0.236)	0.084	0.137
110	9.17	0.63	0.221	(0.235)	0.084	0.137
111	9.25	0.63	0.221	(0.234)	0.084	0.137
112	9.33	0.67	0.233	(0.233)	0.088	0.144
113	9.42	0.67	0.233	(0.232)	0.088	0.144
114	9.50	0.67	0.233	(0.230)	0.088	0.144
115	9.58	0.70	0.245	(0.229)	0.093	0.152
116	9.67	0.70	0.245	(0.228)	0.093	0.152
117	9.75	0.70	0.245	(0.227)	0.093	0.152
118	9.83	0.73	0.256	(0.226)	0.097	0.159
119	9.92	0.73	0.256	(0.225)	0.097	0.159
120	10.00	0.73	0.256	(0.224)	0.097	0.159
121	10.08	0.50	0.175	(0.223)	0.066	0.108
122	10.17	0.50	0.175	(0.222)	0.066	0.108
123	10.25	0.50	0.175	(0.221)	0.066	0.108
124	10.33	0.50	0.175	(0.220)	0.066	0.108
125	10.42	0.50	0.175	(0.218)	0.066	0.108
126	10.50	0.50	0.175	(0.217)	0.066	0.108
127	10.58	0.67	0.233	(0.216)	0.088	0.144
128	10.67	0.67	0.233	(0.215)	0.088	0.144
129	10.75	0.67	0.233	(0.214)	0.088	0.144
130	10.83	0.67	0.233	(0.213)	0.088	0.144
131	10.92	0.67	0.233	(0.212)	0.088	0.144
132	11.00	0.67	0.233	(0.211)	0.088	0.144
133	11.08	0.63	0.221	(0.210)	0.084	0.137
134	11.17	0.63	0.221	(0.209)	0.084	0.137
135	11.25	0.63	0.221	(0.208)	0.084	0.137
136	11.33	0.63	0.221	(0.207)	0.084	0.137
137	11.42	0.63	0.221	(0.206)	0.084	0.137
138	11.50	0.63	0.221	(0.205)	0.084	0.137
139	11.58	0.57	0.198	(0.204)	0.075	0.123
140	11.67	0.57	0.198	(0.203)	0.075	0.123
141	11.75	0.57	0.198	(0.202)	0.075	0.123
142	11.83	0.60	0.210	(0.201)	0.080	0.130
143	11.92	0.60	0.210	(0.200)	0.080	0.130
144	12.00	0.60	0.210	(0.199)	0.080	0.130
145	12.08	0.83	0.291	(0.198)	0.111	0.180
146	12.17	0.83	0.291	(0.197)	0.111	0.180
147	12.25	0.83	0.291	(0.196)	0.111	0.180
148	12.33	0.87	0.303	(0.195)	0.115	0.188
149	12.42	0.87	0.303	(0.194)	0.115	0.188
150	12.50	0.87	0.303	(0.193)	0.115	0.188
151	12.58	0.93	0.326	(0.192)	0.124	0.202
152	12.67	0.93	0.326	(0.191)	0.124	0.202
153	12.75	0.93	0.326	(0.190)	0.124	0.202
154	12.83	0.97	0.338	(0.189)	0.128	0.209
155	12.92	0.97	0.338	(0.188)	0.128	0.209
156	13.00	0.97	0.338	(0.187)	0.128	0.209
157	13.08	1.13	0.396	(0.186)	0.150	0.245
158	13.17	1.13	0.396	(0.185)	0.150	0.245
159	13.25	1.13	0.396	(0.184)	0.150	0.245
160	13.33	1.13	0.396	(0.183)	0.150	0.245
161	13.42	1.13	0.396	(0.182)	0.150	0.245

162	13.50	1.13	0.396	(0.182)	0.150	0.245
163	13.58	0.77	0.268	(0.181)	0.102	0.166
164	13.67	0.77	0.268	(0.180)	0.102	0.166
165	13.75	0.77	0.268	(0.179)	0.102	0.166
166	13.83	0.77	0.268	(0.178)	0.102	0.166
167	13.92	0.77	0.268	(0.177)	0.102	0.166
168	14.00	0.77	0.268	(0.176)	0.102	0.166
169	14.08	0.90	0.314	(0.175)	0.119	0.195
170	14.17	0.90	0.314	(0.174)	0.119	0.195
171	14.25	0.90	0.314	(0.173)	0.119	0.195
172	14.33	0.87	0.303	(0.173)	0.115	0.188
173	14.42	0.87	0.303	(0.172)	0.115	0.188
174	14.50	0.87	0.303	(0.171)	0.115	0.188
175	14.58	0.87	0.303	(0.170)	0.115	0.188
176	14.67	0.87	0.303	(0.169)	0.115	0.188
177	14.75	0.87	0.303	(0.168)	0.115	0.188
178	14.83	0.83	0.291	(0.167)	0.111	0.180
179	14.92	0.83	0.291	(0.166)	0.111	0.180
180	15.00	0.83	0.291	(0.166)	0.111	0.180
181	15.08	0.80	0.279	(0.165)	0.106	0.173
182	15.17	0.80	0.279	(0.164)	0.106	0.173
183	15.25	0.80	0.279	(0.163)	0.106	0.173
184	15.33	0.77	0.268	(0.162)	0.102	0.166
185	15.42	0.77	0.268	(0.161)	0.102	0.166
186	15.50	0.77	0.268	(0.161)	0.102	0.166
187	15.58	0.63	0.221	(0.160)	0.084	0.137
188	15.67	0.63	0.221	(0.159)	0.084	0.137
189	15.75	0.63	0.221	(0.158)	0.084	0.137
190	15.83	0.63	0.221	(0.157)	0.084	0.137
191	15.92	0.63	0.221	(0.156)	0.084	0.137
192	16.00	0.63	0.221	(0.156)	0.084	0.137
193	16.08	0.13	0.047	(0.155)	0.018	0.029
194	16.17	0.13	0.047	(0.154)	0.018	0.029
195	16.25	0.13	0.047	(0.153)	0.018	0.029
196	16.33	0.13	0.047	(0.153)	0.018	0.029
197	16.42	0.13	0.047	(0.152)	0.018	0.029
198	16.50	0.13	0.047	(0.151)	0.018	0.029
199	16.58	0.10	0.035	(0.150)	0.013	0.022
200	16.67	0.10	0.035	(0.149)	0.013	0.022
201	16.75	0.10	0.035	(0.149)	0.013	0.022
202	16.83	0.10	0.035	(0.148)	0.013	0.022
203	16.92	0.10	0.035	(0.147)	0.013	0.022
204	17.00	0.10	0.035	(0.146)	0.013	0.022
205	17.08	0.17	0.058	(0.146)	0.022	0.036
206	17.17	0.17	0.058	(0.145)	0.022	0.036
207	17.25	0.17	0.058	(0.144)	0.022	0.036
208	17.33	0.17	0.058	(0.143)	0.022	0.036
209	17.42	0.17	0.058	(0.143)	0.022	0.036
210	17.50	0.17	0.058	(0.142)	0.022	0.036
211	17.58	0.17	0.058	(0.141)	0.022	0.036
212	17.67	0.17	0.058	(0.141)	0.022	0.036
213	17.75	0.17	0.058	(0.140)	0.022	0.036
214	17.83	0.13	0.047	(0.139)	0.018	0.029
215	17.92	0.13	0.047	(0.139)	0.018	0.029
216	18.00	0.13	0.047	(0.138)	0.018	0.029
217	18.08	0.13	0.047	(0.137)	0.018	0.029
218	18.17	0.13	0.047	(0.137)	0.018	0.029
219	18.25	0.13	0.047	(0.136)	0.018	0.029
220	18.33	0.13	0.047	(0.135)	0.018	0.029
221	18.42	0.13	0.047	(0.135)	0.018	0.029
222	18.50	0.13	0.047	(0.134)	0.018	0.029
223	18.58	0.10	0.035	(0.133)	0.013	0.022
224	18.67	0.10	0.035	(0.133)	0.013	0.022
225	18.75	0.10	0.035	(0.132)	0.013	0.022
226	18.83	0.07	0.023	(0.131)	0.009	0.014
227	18.92	0.07	0.023	(0.131)	0.009	0.014
228	19.00	0.07	0.023	(0.130)	0.009	0.014
229	19.08	0.10	0.035	(0.129)	0.013	0.022
230	19.17	0.10	0.035	(0.129)	0.013	0.022
231	19.25	0.10	0.035	(0.128)	0.013	0.022
232	19.33	0.13	0.047	(0.128)	0.018	0.029
233	19.42	0.13	0.047	(0.127)	0.018	0.029
234	19.50	0.13	0.047	(0.126)	0.018	0.029
235	19.58	0.10	0.035	(0.126)	0.013	0.022
236	19.67	0.10	0.035	(0.125)	0.013	0.022
237	19.75	0.10	0.035	(0.125)	0.013	0.022
238	19.83	0.07	0.023	(0.124)	0.009	0.014
239	19.92	0.07	0.023	(0.124)	0.009	0.014
240	20.00	0.07	0.023	(0.123)	0.009	0.014
241	20.08	0.10	0.035	(0.123)	0.013	0.022
242	20.17	0.10	0.035	(0.122)	0.013	0.022
243	20.25	0.10	0.035	(0.121)	0.013	0.022
244	20.33	0.10	0.035	(0.121)	0.013	0.022
245	20.42	0.10	0.035	(0.120)	0.013	0.022
246	20.50	0.10	0.035	(0.120)	0.013	0.022
247	20.58	0.10	0.035	(0.119)	0.013	0.022
248	20.67	0.10	0.035	(0.119)	0.013	0.022

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249  20.75     0.10      0.035       (  0.118)       0.013        0.022
250  20.83     0.07      0.023       (  0.118)       0.009        0.014
251  20.92     0.07      0.023       (  0.117)       0.009        0.014
252  21.00     0.07      0.023       (  0.117)       0.009        0.014
253  21.08     0.10      0.035       (  0.117)       0.013        0.022
254  21.17     0.10      0.035       (  0.116)       0.013        0.022
255  21.25     0.10      0.035       (  0.116)       0.013        0.022
256  21.33     0.07      0.023       (  0.115)       0.009        0.014
257  21.42     0.07      0.023       (  0.115)       0.009        0.014
258  21.50     0.07      0.023       (  0.114)       0.009        0.014
259  21.58     0.10      0.035       (  0.114)       0.013        0.022
260  21.67     0.10      0.035       (  0.113)       0.013        0.022
261  21.75     0.10      0.035       (  0.113)       0.013        0.022
262  21.83     0.07      0.023       (  0.113)       0.009        0.014
263  21.92     0.07      0.023       (  0.112)       0.009        0.014
264  22.00     0.07      0.023       (  0.112)       0.009        0.014
265  22.08     0.10      0.035       (  0.112)       0.013        0.022
266  22.17     0.10      0.035       (  0.111)       0.013        0.022
267  22.25     0.10      0.035       (  0.111)       0.013        0.022
268  22.33     0.07      0.023       (  0.110)       0.009        0.014
269  22.42     0.07      0.023       (  0.110)       0.009        0.014
270  22.50     0.07      0.023       (  0.110)       0.009        0.014
271  22.58     0.07      0.023       (  0.110)       0.009        0.014
272  22.67     0.07      0.023       (  0.109)       0.009        0.014
273  22.75     0.07      0.023       (  0.109)       0.009        0.014
274  22.83     0.07      0.023       (  0.109)       0.009        0.014
275  22.92     0.07      0.023       (  0.108)       0.009        0.014
276  23.00     0.07      0.023       (  0.108)       0.009        0.014
277  23.08     0.07      0.023       (  0.108)       0.009        0.014
278  23.17     0.07      0.023       (  0.108)       0.009        0.014
279  23.25     0.07      0.023       (  0.107)       0.009        0.014
280  23.33     0.07      0.023       (  0.107)       0.009        0.014
281  23.42     0.07      0.023       (  0.107)       0.009        0.014
282  23.50     0.07      0.023       (  0.107)       0.009        0.014
283  23.58     0.07      0.023       (  0.107)       0.009        0.014
284  23.67     0.07      0.023       (  0.106)       0.009        0.014
285  23.75     0.07      0.023       (  0.106)       0.009        0.014
286  23.83     0.07      0.023       (  0.106)       0.009        0.014
287  23.92     0.07      0.023       (  0.106)       0.009        0.014
288  24.00     0.07      0.023       (  0.106)       0.009        0.014
                (Loss Rate Not Used)
    Sum =     100.0                                 Sum =    21.7
      Flood volume = Effective rainfall      1.80(In)
       times area       9.9(Ac.)/[(In)/(Ft.)] =       1.5(Ac.Ft)
      Total soil loss =      1.11(In)
      Total soil loss =     0.910(Ac.Ft)
      Total rainfall =      2.91(In)
      Flood volume =       64657.6 Cubic Feet
      Total soil loss =       39628.9 Cubic Feet
      ---------------------------------------------------------------------
       Peak flow rate of this hydrograph =      2.443(CFS)
      ---------------------------------------------------------------------
      +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                          24 - 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   5   Minute intervals ((CFS))

      ---------------------------------------------------------------------
 Time(h+m) Volume Ac.Ft   Q(CFS)  0        2.5       5.0       7.5      10.0
 ---------------------------------------------------------------------------
   0+ 5       0.0005      0.07  Q          |         |         |         |
   0+10       0.0013      0.13  Q          |         |         |         |
   0+15       0.0023      0.14  Q          |         |         |         |
   0+20       0.0035      0.18  Q          |         |         |         |
   0+25       0.0049      0.21  Q          |         |         |         |
   0+30       0.0064      0.21  Q          |         |         |         |
   0+35       0.0079      0.22  Q          |         |         |         |
   0+40       0.0094      0.22  Q          |         |         |         |
   0+45       0.0109      0.22  Q          |         |         |         |
   0+50       0.0126      0.25  Q          |         |         |         |
   0+55       0.0145      0.28  VQ         |         |         |         |
   1+ 0       0.0165      0.28  VQ         |         |         |         |
   1+ 5       0.0182      0.25  VQ         |         |         |         |
   1+10       0.0197      0.22  Q          |         |         |         |
   1+15       0.0212      0.22  Q          |         |         |         |
   1+20       0.0227      0.22  Q          |         |         |         |
   1+25       0.0242      0.22  Q          |         |         |         |
   1+30       0.0257      0.22  Q          |         |         |         |
   1+35       0.0272      0.22  Q          |         |         |         |
   1+40       0.0287      0.22  Q          |         |         |         |
   1+45       0.0302      0.22  Q          |         |         |         |
   1+50       0.0319      0.25  Q          |         |         |         |
   1+55       0.0338      0.28  VQ         |         |         |         |
   2+ 0       0.0358      0.28  VQ         |         |         |         |
   2+ 5       0.0377      0.29  |Q         |         |         |         |
   2+10       0.0397      0.29  |Q         |         |         |         |
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2+15        0.0417      0.29  |Q         |          |          |          |
2+20        0.0437      0.29  |Q         |          |          |          |
2+25        0.0456      0.29  |Q         |          |          |          |
2+30        0.0476      0.29  |Q         |          |          |          |
2+35        0.0498      0.32  |Q         |          |          |          |
2+40        0.0523      0.35  |Q         |          |          |          |
2+45        0.0547      0.36  |Q         |          |          |          |
2+50        0.0572      0.36  |Q         |          |          |          |
2+55        0.0597      0.36  |Q         |          |          |          |
3+ 0        0.0621      0.36  |Q         |          |          |          |
3+ 5        0.0646      0.36  |Q         |          |          |          |
3+10        0.0671      0.36  |Q         |          |          |          |
3+15        0.0696      0.36  |Q         |          |          |          |
3+20        0.0720      0.36  |Q         |          |          |          |
3+25        0.0745      0.36  |QV        |          |          |          |
3+30        0.0770      0.36  |QV        |          |          |          |
3+35        0.0794      0.36  |QV        |          |          |          |
3+40        0.0819      0.36  |QV        |          |          |          |
3+45        0.0844      0.36  |QV        |          |          |          |
3+50        0.0871      0.39  |QV        |          |          |          |
3+55        0.0900      0.42  |QV        |          |          |          |
4+ 0        0.0930      0.43  |QV        |          |          |          |
4+ 5        0.0959      0.43  |QV        |          |          |          |
4+10        0.0989      0.43  |QV        |          |          |          |
4+15        0.1019      0.43  |QV        |          |          |          |
4+20        0.1051      0.46  |QV        |          |          |          |
4+25        0.1085      0.49  |QV        |          |          |          |
4+30        0.1119      0.50  | QV       |          |          |          |
4+35        0.1154      0.50  | QV       |          |          |          |
4+40        0.1188      0.50  | QV       |          |          |          |
4+45        0.1223      0.50  | QV       |          |          |          |
4+50        0.1260      0.54  | QV       |          |          |          |
4+55        0.1299      0.57  | QV       |          |          |          |
5+ 0        0.1338      0.57  | QV       |          |          |          |
5+ 5        0.1373      0.51  | QV       |          |          |          |
5+10        0.1404      0.45  |Q V       |          |          |          |
5+15        0.1434      0.44  |Q V       |          |          |          |
5+20        0.1466      0.46  |Q V       |          |          |          |
5+25        0.1500      0.49  |Q  V      |          |          |          |
5+30        0.1535      0.50  | Q V      |          |          |          |
5+35        0.1572      0.54  | Q V      |          |          |          |
5+40        0.1611      0.57  | Q V      |          |          |          |
5+45        0.1650      0.57  | Q V      |          |          |          |
5+50        0.1690      0.57  | Q V      |          |          |          |
5+55        0.1729      0.57  | Q V      |          |          |          |
6+ 0        0.1769      0.57  | Q V      |          |          |          |
6+ 5        0.1811      0.61  | Q V      |          |          |          |
6+10        0.1855      0.64  | Q V      |          |          |          |
6+15        0.1899      0.64  | Q  V     |          |          |          |
6+20        0.1944      0.65  | Q  V     |          |          |          |
6+25        0.1988      0.65  | Q  V     |          |          |          |
6+30        0.2033      0.65  | Q  V     |          |          |          |
6+35        0.2079      0.68  | Q  V     |          |          |          |
6+40        0.2128      0.71  | Q  V     |          |          |          |
6+45        0.2178      0.72  | Q  V     |          |          |          |
6+50        0.2227      0.72  | Q   V    |          |          |          |
6+55        0.2277      0.72  | Q   V    |          |          |          |
7+ 0        0.2326      0.72  | Q   V    |          |          |          |
7+ 5        0.2376      0.72  | Q   V    |          |          |          |
7+10        0.2425      0.72  | Q   V    |          |          |          |
7+15        0.2475      0.72  | Q   V    |          |          |          |
7+20        0.2526      0.75  |  Q  V    |          |          |          |
7+25        0.2580      0.78  |  Q  V    |          |          |          |
7+30        0.2634      0.79  |  Q   V   |          |          |          |
7+35        0.2691      0.82  |  Q   V   |          |          |          |
7+40        0.2750      0.85  |  Q   V   |          |          |          |
7+45        0.2809      0.86  |  Q   V   |          |          |          |
7+50        0.2871      0.90  |  Q   V   |          |          |          |
7+55        0.2935      0.93  |  Q   V   |          |          |          |
8+ 0        0.2999      0.93  |  Q    V  |          |          |          |
8+ 5        0.3068      1.00  |   Q   V  |          |          |          |
8+10        0.3141      1.06  |   Q   V  |          |          |          |
8+15        0.3215      1.07  |   Q   V  |          |          |          |
8+20        0.3289      1.08  |   Q   V  |          |          |          |
8+25        0.3363      1.08  |   Q    V |          |          |          |
8+30        0.3437      1.08  |   Q    V |          |          |          |
8+35        0.3514      1.11  |   Q    V |          |          |          |
8+40        0.3592      1.14  |   Q    V |          |          |          |
8+45        0.3671      1.15  |   Q    V |          |          |          |
8+50        0.3753      1.18  |   Q     V|          |          |          |
8+55        0.3836      1.21  |   Q     V|          |          |          |
9+ 0        0.3920      1.22  |   Q     V|          |          |          |
9+ 5        0.4009      1.29  |    Q    V|          |          |          |
9+10        0.4102      1.35  |    Q    |V          |          |          |
9+15        0.4196      1.36  |    Q    |V          |          |          |
9+20        0.4292      1.40  |    Q    |V          |          |          |
9+25        0.4390      1.43  |    Q    |V          |          |          |
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9+30	0.4489	1.43					
9+35	0.4590	1.47					
9+40	0.4694	1.50					
9+45	0.4797	1.51					
9+50	0.4904	1.54					
9+55	0.5012	1.57					
10+ 0	0.5120	1.58					
10+ 5	0.5213	1.35					
10+10	0.5292	1.14					
10+15	0.5367	1.09					
10+20	0.5441	1.08					
10+25	0.5515	1.08					
10+30	0.5590	1.08					
10+35	0.5675	1.24					
10+40	0.5771	1.40					
10+45	0.5869	1.42					
10+50	0.5968	1.44					
10+55	0.6067	1.44					
11+ 0	0.6166	1.44					
11+ 5	0.6263	1.40					
11+10	0.6358	1.37					
11+15	0.6452	1.37					
11+20	0.6546	1.36					
11+25	0.6640	1.36					
11+30	0.6734	1.36					
11+35	0.6823	1.30					
11+40	0.6908	1.24					
11+45	0.6993	1.23					
11+50	0.7079	1.25					
11+55	0.7168	1.28					
12+ 0	0.7257	1.29					
12+ 5	0.7362	1.53					
12+10	0.7481	1.74					
12+15	0.7604	1.78					
12+20	0.7730	1.83					
12+25	0.7858	1.86					
12+30	0.7987	1.87					
12+35	0.8120	1.93					
12+40	0.8257	2.00					
12+45	0.8395	2.01					
12+50	0.8536	2.04					
12+55	0.8679	2.08					
13+ 0	0.8822	2.08					
13+ 5	0.8977	2.25					
13+10	0.9143	2.40					
13+15	0.9310	2.43					
13+20	0.9478	2.44					
13+25	0.9647	2.44					
13+30	0.9815	2.44					
13+35	0.9958	2.08					
13+40	1.0078	1.74					
13+45	1.0194	1.68					
13+50	1.0307	1.65					
13+55	1.0421	1.65					
14+ 0	1.0535	1.65					
14+ 5	1.0658	1.79					
14+10	1.0789	1.91					
14+15	1.0922	1.93					
14+20	1.1053	1.91					
14+25	1.1183	1.88					
14+30	1.1311	1.87					
14+35	1.1440	1.87					
14+40	1.1569	1.87					
14+45	1.1697	1.87					
14+50	1.1824	1.83					
14+55	1.1948	1.80					
15+ 0	1.2072	1.80					
15+ 5	1.2193	1.76					
15+10	1.2313	1.73					
15+15	1.2431	1.73					
15+20	1.2548	1.69					
15+25	1.2662	1.66					
15+30	1.2776	1.65					
15+35	1.2881	1.52					
15+40	1.2977	1.40					
15+45	1.3072	1.37					
15+50	1.3166	1.36					
15+55	1.3260	1.36					
16+ 0	1.3354	1.36					
16+ 5	1.3414	0.87					
16+10	1.3442	0.41					
16+15	1.3464	0.32					
16+20	1.3484	0.29					
16+25	1.3504	0.29					
16+30	1.3524	0.29					
16+35	1.3541	0.25					
16+40	1.3556	0.22					

16+45	1.3571	0.22	Q	|	|	|	V |
16+50	1.3586	0.22	Q	|	|	|	V |
16+55	1.3601	0.22	Q	|	|	|	V |
17+ 0	1.3616	0.22	Q	|	|	|	V |
17+ 5	1.3635	0.28	|Q	|	|	|	V |
17+10	1.3659	0.34	|Q	|	|	|	V |
17+15	1.3683	0.35	|Q	|	|	|	V |
17+20	1.3708	0.36	|Q	|	|	|	V |
17+25	1.3733	0.36	|Q	|	|	|	V |
17+30	1.3758	0.36	|Q	|	|	|	V |
17+35	1.3782	0.36	|Q	|	|	|	V |
17+40	1.3807	0.36	|Q	|	|	|	V |
17+45	1.3832	0.36	|Q	|	|	|	V |
17+50	1.3854	0.33	|Q	|	|	|	V |
17+55	1.3875	0.30	|Q	|	|	|	V |
18+ 0	1.3895	0.29	|Q	|	|	|	V |
18+ 5	1.3914	0.29	|Q	|	|	|	V |
18+10	1.3934	0.29	|Q	|	|	|	V |
18+15	1.3954	0.29	|Q	|	|	|	V |
18+20	1.3974	0.29	|Q	|	|	|	V |
18+25	1.3994	0.29	|Q	|	|	|	V |
18+30	1.4013	0.29	|Q	|	|	|	V |
18+35	1.4031	0.25	|Q	|	|	|	V |
18+40	1.4046	0.22	Q	|	|	|	V |
18+45	1.4061	0.22	Q	|	|	|	V |
18+50	1.4074	0.18	Q	|	|	|	V |
18+55	1.4084	0.15	Q	|	|	|	V |
19+ 0	1.4094	0.15	Q	|	|	|	V |
19+ 5	1.4107	0.18	Q	|	|	|	V |
19+10	1.4121	0.21	Q	|	|	|	V |
19+15	1.4136	0.21	Q	|	|	|	V |
19+20	1.4153	0.25	Q	|	|	|	V |
19+25	1.4172	0.28	|Q	|	|	|	V |
19+30	1.4192	0.28	|Q	|	|	|	V |
19+35	1.4209	0.25	|Q	|	|	|	V |
19+40	1.4224	0.22	Q	|	|	|	V |
19+45	1.4239	0.22	Q	|	|	|	V |
19+50	1.4252	0.18	Q	|	|	|	V |
19+55	1.4262	0.15	Q	|	|	|	V |
20+ 0	1.4273	0.15	Q	|	|	|	V |
20+ 5	1.4285	0.18	Q	|	|	|	V |
20+10	1.4299	0.21	Q	|	|	|	V |
20+15	1.4314	0.21	Q	|	|	|	V |
20+20	1.4328	0.22	Q	|	|	|	V |
20+25	1.4343	0.22	Q	|	|	|	V |
20+30	1.4358	0.22	Q	|	|	|	V |
20+35	1.4373	0.22	Q	|	|	|	V |
20+40	1.4388	0.22	Q	|	|	|	V |
20+45	1.4403	0.22	Q	|	|	|	V |
20+50	1.4415	0.18	Q	|	|	|	V |
20+55	1.4426	0.15	Q	|	|	|	V |
21+ 0	1.4436	0.15	Q	|	|	|	V |
21+ 5	1.4448	0.18	Q	|	|	|	V |
21+10	1.4462	0.21	Q	|	|	|	V |
21+15	1.4477	0.21	Q	|	|	|	V|
21+20	1.4489	0.18	Q	|	|	|	V|
21+25	1.4500	0.15	Q	|	|	|	V|
21+30	1.4510	0.15	Q	|	|	|	V|
21+35	1.4522	0.18	Q	|	|	|	V|
21+40	1.4536	0.21	Q	|	|	|	V|
21+45	1.4551	0.21	Q	|	|	|	V|
21+50	1.4564	0.18	Q	|	|	|	V|
21+55	1.4574	0.15	Q	|	|	|	V|
22+ 0	1.4584	0.15	Q	|	|	|	V|
22+ 5	1.4596	0.18	Q	|	|	|	V|
22+10	1.4611	0.21	Q	|	|	|	V|
22+15	1.4625	0.21	Q	|	|	|	V|
22+20	1.4638	0.18	Q	|	|	|	V|
22+25	1.4648	0.15	Q	|	|	|	V|
22+30	1.4658	0.15	Q	|	|	|	V|
22+35	1.4668	0.14	Q	|	|	|	V|
22+40	1.4678	0.14	Q	|	|	|	V|
22+45	1.4688	0.14	Q	|	|	|	V|
22+50	1.4698	0.14	Q	|	|	|	V|
22+55	1.4708	0.14	Q	|	|	|	V|
23+ 0	1.4718	0.14	Q	|	|	|	V|
23+ 5	1.4728	0.14	Q	|	|	|	V|
23+10	1.4738	0.14	Q	|	|	|	V|
23+15	1.4747	0.14	Q	|	|	|	V|
23+20	1.4757	0.14	Q	|	|	|	V|
23+25	1.4767	0.14	Q	|	|	|	V|
23+30	1.4777	0.14	Q	|	|	|	V|
23+35	1.4787	0.14	Q	|	|	|	V|
23+40	1.4797	0.14	Q	|	|	|	V|
23+45	1.4807	0.14	Q	|	|	|	V|
23+50	1.4817	0.14	Q	|	|	|	V|
23+55	1.4827	0.14	Q	|	|	|	V|

```
   24+ 0       1.4837      0.14  Q          |          |          |        V|
   24+ 5       1.4842      0.08  Q          |          |          |        V|
   24+10       1.4843      0.02  Q          |          |          |        V|
   24+15       1.4843      0.00  Q          |          |          |        V|
-------------------------------------------------------------------------
```

```
       U n i t   H y d r o g r a p h   A n a l y s i s

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       9.87(Ac.)  =      0.015 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       9.87(Ac.)  =      0.015 Sq. Mi.
Length along longest watercourse =    1180.00(Ft.)
Length along longest watercourse measured to centroid =     590.00(Ft.)
Length along longest watercourse =      0.223 Mi.
Length along longest watercourse measured to centroid =      0.112 Mi.
Difference in elevation =      18.60(Ft.)
Slope along watercourse =     83.2271 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time =    0.038 Hr.
Lag time =     2.29 Min.
25% of lag time =     0.57 Min.
40% of lag time =     0.92 Min.
Unit time =     5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            0.50                 4.93

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            1.20                11.84

STORM EVENT (YEAR) =  100.00
Area Averaged 2-Year Rainfall =    0.500(In)
Area Averaged 100-Year Rainfall =    1.200(In)

Point rain (area averaged) =    1.200(In)
Areal adjustment factor =   99.99 %
Adjusted average point rain =    1.200(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     9.870           56.00          0.650
 Total Area Entered =      9.87(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-2     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
56.0  56.0      0.511     0.650        0.212       1.000      0.212
                                                 Sum (F) =   0.212
Area averaged mean soil loss (F) (In/Hr) =  0.212
Minimum soil loss rate ((In/Hr)) =  0.106
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.380
------------------------------------------------------------------------
Slope of intensity-duration curve for a 1 hour storm =0.5000
------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
------------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
```

```
        (hrs)                          Graph %            (CFS)
      ------------------------------------------------------------------------
         1   0.083        217.936         46.337             4.609
         2   0.167        435.872         42.135             4.191
         3   0.250        653.809          8.112             0.807
         4   0.333        871.745          3.415             0.340
                                  Sum = 100.000    Sum=       9.947
    ------------------------------------------------------------------------


 The following loss rate calculations reflect use of the minimum calculated loss
 rate subtracted from the Storm Rain to produce the maximum Effective Rain value

  Unit Time   Pattern   Storm Rain     Loss rate(In./Hr)     Effective
       (Hr.)  Percent   (In/Hr)         Max    |   Low        (In/Hr)
    1   0.08     4.20      0.605          0.212    (  0.230)        0.393
    2   0.17     4.30      0.619          0.212    (  0.235)        0.407
    3   0.25     5.00      0.720          0.212    (  0.274)        0.508
    4   0.33     5.00      0.720          0.212    (  0.274)        0.508
    5   0.42     5.80      0.835          0.212    (  0.317)        0.623
    6   0.50     6.50      0.936          0.212    (  0.356)        0.724
    7   0.58     7.40      1.066          0.212    (  0.405)        0.854
    8   0.67     8.60      1.238          0.212    (  0.471)        1.026
    9   0.75    12.30      1.771          0.212    (  0.673)        1.559
   10   0.83    29.10      4.190          0.212    (  1.592)        3.978
   11   0.92     6.80      0.979          0.212    (  0.372)        0.767
   12   1.00     5.00      0.720          0.212    (  0.274)        0.508
             (Loss Rate Not Used)
      Sum =     100.0                                 Sum =    11.9
        Flood volume = Effective rainfall      0.99(In)
         times area       9.9(Ac.)/[(In)/(Ft.)] =       0.8(Ac.Ft)
        Total soil loss =      0.21(In)
        Total soil loss =     0.174(Ac.Ft)
        Total rainfall =      1.20(In)
        Flood volume =       35395.0 Cubic Feet
        Total soil loss =        7594.9 Cubic Feet
        ------------------------------------------------------------------------
         Peak flow rate of this hydrograph =     26.002(CFS)
        ------------------------------------------------------------------------
        ++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                           1 - 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   5   Minute intervals ((CFS))

        ------------------------------------------------------------------------
  Time(h+m) Volume Ac.Ft   Q(CFS)  0        7.5      15.0      22.5      30.0
   ----------------------------------------------------------------------------
     0+ 5       0.0125      1.81  V Q       |         |         |         |
     0+10       0.0367      3.52  |V  Q     |         |         |         |
     0+15       0.0668      4.37  |  V Q    |         |         |         |
     0+20       0.1008      4.93  |   V Q   |         |         |         |
     0+25       0.1390      5.55  |     VQ  |         |         |         |
     0+30       0.1841      6.53  |       QV|         |         |         |
     0+35       0.2367      7.65  |         QV        |         |         |
     0+40       0.2995      9.11  |         | Q V     |         |         |
     0+45       0.3850     12.43  |         |    Q V  |         |         |
     0+50       0.5641     26.00  |         |         |      V  |   Q     |
     0+55       0.7144     21.83  |         |         |        Q|    V    |
     1+ 0       0.7785      9.30  |         | Q       |         |      V  |
     1+ 5       0.8067      4.10  |    Q    |         |         |         V|
     1+10       0.8114      0.67  Q         |         |         |         V|
     1+15       0.8126      0.17  Q         |         |         |         V|
   ----------------------------------------------------------------------------
```

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       U n i t   H y d r o g r a p h   A n a l y s i s

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              Study date  03/01/22 File: pro11003100.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       9.87(Ac.)  =      0.015 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       9.87(Ac.)  =      0.015 Sq. Mi.
Length along longest watercourse =    1180.00(Ft.)
Length along longest watercourse measured to centroid =     590.00(Ft.)
Length along longest watercourse =      0.223 Mi.
Length along longest watercourse measured to centroid =      0.112 Mi.
Difference in elevation =      18.60(Ft.)
Slope along watercourse =     83.2271 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time =    0.038 Hr.
Lag time =     2.29 Min.
25% of lag time =     0.57 Min.
40% of lag time =     0.92 Min.
Unit time =     5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            0.80                 7.90

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            1.90                18.75

STORM EVENT (YEAR) =  100.00
Area Averaged 2-Year Rainfall =    0.800(In)
Area Averaged 100-Year Rainfall =    1.900(In)

Point rain (area averaged) =    1.900(In)
Areal adjustment factor =  100.00 %
Adjusted average point rain =    1.900(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     9.870           56.00          0.650
 Total Area Entered =      9.87(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-2     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
56.0  56.0      0.511     0.650        0.212       1.000      0.212
                                                 Sum (F) =   0.212
Area averaged mean soil loss (F) (In/Hr) =  0.212
Minimum soil loss rate ((In/Hr)) =  0.106
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.380
------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
-------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
    (hrs)                          Graph %           (CFS)
------------------------------------------------------------------------
```

1	0.083	217.936	46.337	4.609
2	0.167	435.872	42.135	4.191
3	0.250	653.809	8.112	0.807
4	0.333	871.745	3.415	0.340
		Sum = 100.000	Sum=	9.947

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	1.30	0.296	(0.212)	0.113	0.184
2	0.17	1.30	0.296	(0.212)	0.113	0.184
3	0.25	1.10	0.251	(0.212)	0.095	0.155
4	0.33	1.50	0.342	(0.212)	0.130	0.212
5	0.42	1.50	0.342	(0.212)	0.130	0.212
6	0.50	1.80	0.410	(0.212)	0.156	0.254
7	0.58	1.50	0.342	(0.212)	0.130	0.212
8	0.67	1.80	0.410	(0.212)	0.156	0.254
9	0.75	1.80	0.410	(0.212)	0.156	0.254
10	0.83	1.50	0.342	(0.212)	0.130	0.212
11	0.92	1.60	0.365	(0.212)	0.139	0.226
12	1.00	1.80	0.410	(0.212)	0.156	0.254
13	1.08	2.20	0.502	(0.212)	0.191	0.311
14	1.17	2.20	0.502	(0.212)	0.191	0.311
15	1.25	2.20	0.502	(0.212)	0.191	0.311
16	1.33	2.00	0.456	(0.212)	0.173	0.283
17	1.42	2.60	0.593	0.212	(0.225)	0.381
18	1.50	2.70	0.616	0.212	(0.234)	0.404
19	1.58	2.40	0.547	(0.212)	0.208	0.339
20	1.67	2.70	0.616	0.212	(0.234)	0.404
21	1.75	3.30	0.752	0.212	(0.286)	0.540
22	1.83	3.10	0.707	0.212	(0.269)	0.495
23	1.92	2.90	0.661	0.212	(0.251)	0.449
24	2.00	3.00	0.684	0.212	(0.260)	0.472
25	2.08	3.10	0.707	0.212	(0.269)	0.495
26	2.17	4.20	0.958	0.212	(0.364)	0.746
27	2.25	5.00	1.140	0.212	(0.433)	0.928
28	2.33	3.50	0.798	0.212	(0.303)	0.586
29	2.42	6.80	1.550	0.212	(0.589)	1.338
30	2.50	7.30	1.664	0.212	(0.632)	1.452
31	2.58	8.20	1.870	0.212	(0.710)	1.658
32	2.67	5.90	1.345	0.212	(0.511)	1.133
33	2.75	2.00	0.456	(0.212)	0.173	0.283
34	2.83	1.80	0.410	(0.212)	0.156	0.254
35	2.92	1.80	0.410	(0.212)	0.156	0.254
36	3.00	0.60	0.137	(0.212)	0.052	0.085
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	16.5

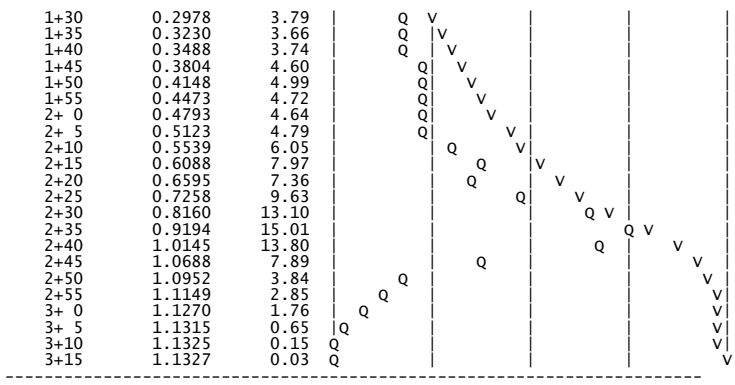
Flood volume = Effective rainfall 1.38(In)
times area 9.9(Ac.)/[(In)/(Ft.)] = 1.1(Ac.Ft)
Total soil loss = 0.52(In)
Total soil loss = 0.430(Ac.Ft)
Total rainfall = 1.90(In)
Flood volume = 49342.4 Cubic Feet
Total soil loss = 18728.1 Cubic Feet

Peak flow rate of this hydrograph = 15.014(CFS)

3 - 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 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	5.0	10.0	15.0	20.0
0+ 5	0.0058	0.85	VQ				
0+10	0.0170	1.62	V Q				
0+15	0.0282	1.64	V Q				
0+20	0.0409	1.84	V Q				
0+25	0.0551	2.05	V Q				
0+30	0.0708	2.29	V Q				
0+35	0.0866	2.29	VQ				
0+40	0.1027	2.34	VQ				
0+45	0.1199	2.50	Q				
0+50	0.1359	2.32	Q				
0+55	0.1512	2.22	QV				
1+ 0	0.1676	2.38	QV				
1+ 5	0.1866	2.76	QV				
1+10	0.2074	3.02	QV				
1+15	0.2286	3.08	Q V				
1+20	0.2490	2.96	Q V				
1+25	0.2717	3.30	Q V				


1+30 0.2978 3.79
1+35 0.3230 3.66
1+40 0.3488 3.74
1+45 0.3804 4.60
1+50 0.4148 4.99
1+55 0.4473 4.72
2+ 0 0.4793 4.64
2+ 5 0.5123 4.79
2+10 0.5539 6.05
2+15 0.6088 7.97
2+20 0.6595 7.36
2+25 0.7258 9.63
2+30 0.8160 13.10
2+35 0.9194 15.01
2+40 1.0145 13.80
2+45 1.0688 7.89
2+50 1.0952 3.84
2+55 1.1149 2.85
3+ 0 1.1270 1.76
3+ 5 1.1315 0.65
3+10 1.1325 0.15
3+15 1.1327 0.03

```
       U n i t   H y d r o g r a p h   A n a l y s i s

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              Study date  03/01/22 File: pro11006100.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       9.87(Ac.)  =      0.015 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       9.87(Ac.)  =      0.015 Sq. Mi.
Length along longest watercourse =    1180.00(Ft.)
Length along longest watercourse measured to centroid =     590.00(Ft.)
Length along longest watercourse =      0.223 Mi.
Length along longest watercourse measured to centroid =      0.112 Mi.
Difference in elevation =      18.60(Ft.)
Slope along watercourse =     83.2271 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time =    0.038 Hr.
Lag time =     2.29 Min.
25% of lag time =     0.57 Min.
40% of lag time =     0.92 Min.
Unit time =     5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            1.20                11.84

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            2.50                24.67

STORM EVENT (YEAR) =  100.00
Area Averaged 2-Year Rainfall =    1.200(In)
Area Averaged 100-Year Rainfall =    2.500(In)

Point rain (area averaged) =    2.500(In)
Areal adjustment factor =  100.00 %
Adjusted average point rain =    2.500(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     9.870           56.00          0.650
 Total Area Entered =      9.87(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-2     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
56.0  56.0      0.511     0.650        0.212       1.000      0.212
                                                 Sum (F) =   0.212
Area averaged mean soil loss (F) (In/Hr) =  0.212
Minimum soil loss rate ((In/Hr)) =  0.106
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.380
------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
------------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
    (hrs)                          Graph %           (CFS)
------------------------------------------------------------------------
```

1	0.083	217.936	46.337	4.609
2	0.167	435.872	42.135	4.191
3	0.250	653.809	8.112	0.807
4	0.333	871.745	3.415	0.340
			Sum = 100.000 Sum=	9.947

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.150	(0.212)	0.057	0.093
2	0.17	0.60	0.180	(0.212)	0.068	0.112
3	0.25	0.60	0.180	(0.212)	0.068	0.112
4	0.33	0.60	0.180	(0.212)	0.068	0.112
5	0.42	0.60	0.180	(0.212)	0.068	0.112
6	0.50	0.70	0.210	(0.212)	0.080	0.130
7	0.58	0.70	0.210	(0.212)	0.080	0.130
8	0.67	0.70	0.210	(0.212)	0.080	0.130
9	0.75	0.70	0.210	(0.212)	0.080	0.130
10	0.83	0.70	0.210	(0.212)	0.080	0.130
11	0.92	0.70	0.210	(0.212)	0.080	0.130
12	1.00	0.80	0.240	(0.212)	0.091	0.149
13	1.08	0.80	0.240	(0.212)	0.091	0.149
14	1.17	0.80	0.240	(0.212)	0.091	0.149
15	1.25	0.80	0.240	(0.212)	0.091	0.149
16	1.33	0.80	0.240	(0.212)	0.091	0.149
17	1.42	0.80	0.240	(0.212)	0.091	0.149
18	1.50	0.80	0.240	(0.212)	0.091	0.149
19	1.58	0.80	0.240	(0.212)	0.091	0.149
20	1.67	0.80	0.240	(0.212)	0.091	0.149
21	1.75	0.80	0.240	(0.212)	0.091	0.149
22	1.83	0.80	0.240	(0.212)	0.091	0.149
23	1.92	0.80	0.240	(0.212)	0.091	0.149
24	2.00	0.90	0.270	(0.212)	0.103	0.167
25	2.08	0.80	0.240	(0.212)	0.091	0.149
26	2.17	0.90	0.270	(0.212)	0.103	0.167
27	2.25	0.90	0.270	(0.212)	0.103	0.167
28	2.33	0.90	0.270	(0.212)	0.103	0.167
29	2.42	0.90	0.270	(0.212)	0.103	0.167
30	2.50	0.90	0.270	(0.212)	0.103	0.167
31	2.58	0.90	0.270	(0.212)	0.103	0.167
32	2.67	0.90	0.270	(0.212)	0.103	0.167
33	2.75	1.00	0.300	(0.212)	0.114	0.186
34	2.83	1.00	0.300	(0.212)	0.114	0.186
35	2.92	1.00	0.300	(0.212)	0.114	0.186
36	3.00	1.00	0.300	(0.212)	0.114	0.186
37	3.08	1.00	0.300	(0.212)	0.114	0.186
38	3.17	1.10	0.330	(0.212)	0.125	0.205
39	3.25	1.10	0.330	(0.212)	0.125	0.205
40	3.33	1.10	0.330	(0.212)	0.125	0.205
41	3.42	1.20	0.360	(0.212)	0.137	0.223
42	3.50	1.30	0.390	(0.212)	0.148	0.242
43	3.58	1.40	0.420	(0.212)	0.160	0.260
44	3.67	1.40	0.420	(0.212)	0.160	0.260
45	3.75	1.50	0.450	(0.212)	0.171	0.279
46	3.83	1.50	0.450	(0.212)	0.171	0.279
47	3.92	1.60	0.480	(0.212)	0.182	0.298
48	4.00	1.60	0.480	(0.212)	0.182	0.298
49	4.08	1.70	0.510	(0.212)	0.194	0.316
50	4.17	1.80	0.540	(0.212)	0.205	0.335
51	4.25	1.90	0.570	0.212	(0.217)	0.358
52	4.33	2.00	0.600	0.212	(0.228)	0.388
53	4.42	2.10	0.630	0.212	(0.239)	0.418
54	4.50	2.10	0.630	0.212	(0.239)	0.418
55	4.58	2.20	0.660	0.212	(0.251)	0.448
56	4.67	2.30	0.690	0.212	(0.262)	0.478
57	4.75	2.40	0.720	0.212	(0.274)	0.508
58	4.83	2.40	0.720	0.212	(0.274)	0.508
59	4.92	2.50	0.750	0.212	(0.285)	0.538
60	5.00	2.60	0.780	0.212	(0.296)	0.568
61	5.08	3.10	0.930	0.212	(0.353)	0.718
62	5.17	3.60	1.080	0.212	(0.410)	0.868
63	5.25	3.90	1.170	0.212	(0.445)	0.958
64	5.33	4.20	1.260	0.212	(0.479)	1.048
65	5.42	4.70	1.410	0.212	(0.536)	1.198
66	5.50	5.60	1.680	0.212	(0.638)	1.468
67	5.58	1.90	0.570	0.212	(0.217)	0.358
68	5.67	0.90	0.270	(0.212)	0.103	0.167
69	5.75	0.60	0.180	(0.212)	0.068	0.112
70	5.83	0.50	0.150	(0.212)	0.057	0.093
71	5.92	0.30	0.090	(0.212)	0.034	0.056
72	6.00	0.20	0.060	(0.212)	0.023	0.037
		(Loss Rate Not Used)				
	Sum =	100.0			Sum =	20.6

```
Flood volume = Effective rainfall      1.72(In)
 times area       9.9(Ac.)/[(In)/(Ft.)] =       1.4(Ac.Ft)
Total soil loss =      0.78(In)
Total soil loss =     0.642(Ac.Ft)
Total rainfall =      2.50(In)
Flood volume =       61619.8 Cubic Feet
Total soil loss =       27947.4 Cubic Feet
--------------------------------------------------------------------------
 Peak flow rate of this hydrograph =     12.965(CFS)
--------------------------------------------------------------------------
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                      6 - 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   5   Minute intervals ((CFS))

--------------------------------------------------------------------------
Time(h+m) Volume Ac.Ft   Q(CFS)  0        5.0      10.0      15.0      20.0
--------------------------------------------------------------------------
  0+ 5       0.0030      0.43  Q         |         |         |         |
  0+10       0.0092      0.90  VQ        |         |         |         |
  0+15       0.0165      1.06  V Q       |         |         |         |
  0+20       0.0241      1.10  V Q       |         |         |         |
  0+25       0.0317      1.11  V Q       |         |         |         |
  0+30       0.0400      1.20  |VQ       |         |         |         |
  0+35       0.0487      1.27  |VQ       |         |         |         |
  0+40       0.0576      1.29  |VQ       |         |         |         |
  0+45       0.0665      1.30  |VQ       |         |         |         |
  0+50       0.0755      1.30  | Q       |         |         |         |
  0+55       0.0844      1.30  | Q       |         |         |         |
  1+ 0       0.0939      1.38  | Q       |         |         |         |
  1+ 5       0.1040      1.46  | Q       |         |         |         |
  1+10       0.1141      1.47  | QV      |         |         |         |
  1+15       0.1243      1.48  | QV      |         |         |         |
  1+20       0.1345      1.48  | QV      |         |         |         |
  1+25       0.1447      1.48  | Q V     |         |         |         |
  1+30       0.1549      1.48  | Q V     |         |         |         |
  1+35       0.1651      1.48  | Q V     |         |         |         |
  1+40       0.1753      1.48  | Q V     |         |         |         |
  1+45       0.1855      1.48  | Q  V    |         |         |         |
  1+50       0.1957      1.48  | Q  V    |         |         |         |
  1+55       0.2059      1.48  | Q  V    |         |         |         |
  2+ 0       0.2167      1.57  |  Q  V   |         |         |         |
  2+ 5       0.2274      1.56  |  Q  V   |         |         |         |
  2+10       0.2383      1.58  |  Q  V   |         |         |         |
  2+15       0.2497      1.65  |  Q   V  |         |         |         |
  2+20       0.2611      1.66  |  Q   V  |         |         |         |
  2+25       0.2726      1.67  |  Q   V  |         |         |         |
  2+30       0.2841      1.67  |  Q    V |         |         |         |
  2+35       0.2955      1.67  |  Q    V |         |         |         |
  2+40       0.3070      1.67  |  Q    V |         |         |         |
  2+45       0.3191      1.75  |  Q     V|         |         |         |
  2+50       0.3317      1.83  |  Q     V|         |         |         |
  2+55       0.3444      1.84  |  Q     V|         |         |         |
  3+ 0       0.3571      1.85  |  Q      V         |         |         |
  3+ 5       0.3699      1.85  |  Q      V         |         |         |
  3+10       0.3832      1.94  |  Q      V         |         |         |
  3+15       0.3971      2.01  |   Q     |V        |         |         |
  3+20       0.4111      2.03  |   Q     |V        |         |         |
  3+25       0.4257      2.12  |   Q     | V       |         |         |
  3+30       0.4414      2.29  |   Q     | V       |         |         |
  3+35       0.4584      2.46  |   Q     | V       |         |         |
  3+40       0.4761      2.56  |    Q    |  V      |         |         |
  3+45       0.4945      2.67  |    Q    |  V      |         |         |
  3+50       0.5134      2.76  |    Q    |   V     |         |         |
  3+55       0.5331      2.86  |    Q    |    V    |         |         |
  4+ 0       0.5533      2.94  |    Q    |    V    |         |         |
  4+ 5       0.5743      3.04  |     Q   |     V   |         |         |
  4+10       0.5964      3.21  |     Q   |     V   |         |         |
  4+15       0.6199      3.41  |     Q   |      V  |         |         |
  4+20       0.6452      3.67  |      Q  |       V |         |         |
  4+25       0.6724      3.96  |      Q  |        V|         |         |
  4+30       0.7008      4.12  |       Q |        V|         |         |
  4+35       0.7303      4.29  |       Q |         V         |         |
  4+40       0.7617      4.56  |        Q|         |V        |         |
  4+45       0.7951      4.85  |        Q|         | V       |         |
  4+50       0.8296      5.01  |         Q         |  V      |         |
  4+55       0.8653      5.18  |         Q         |   V     |         |
  5+ 0       0.9029      5.46  |         Q         |    V    |         |
  5+ 5       0.9463      6.30  |         | Q       |     V   |         |
  5+10       0.9990      7.66  |         |   Q     |      V  |         |
  5+15       1.0599      8.83  |         |     Q   |       V |         |
  5+20       1.1273      9.79  |         |       Q |         V         |
  5+25       1.2030     10.99  |         |         |Q        |   V     |
  5+30       1.2923     12.96  |         |         |   Q     |     V   |
  5+35       1.3552      9.13  |         |       Q |         |       V |
  5+40       1.3818      3.87  |       Q |         |         |         V|
```

```
    5+45       1.3956      2.00  |   Q     |         |         |        V|
    5+50       1.4035      1.15  | Q       |         |         |        V|
    5+55       1.4090      0.79  |Q        |         |         |        V|
    6+ 0       1.4126      0.52  |Q        |         |         |        V|
    6+ 5       1.4142      0.23  Q         |         |         |        V|
    6+10       1.4145      0.05  Q         |         |         |        V|
    6+15       1.4146      0.01  Q         |         |         |        V|
-------------------------------------------------------------------------
```

```
       U n i t   H y d r o g r a p h   A n a l y s i s

       Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2008, Version 8.1
              Study date  03/01/22 File: pro110024100.out

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------------------------------------------------------------------------------

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978


Program License Serial Number 5006

------------------------------------------------------------------------
 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format



------------------------------------------------------------------------
------------------------------------------------------------------------
Drainage Area =       9.87(Ac.)  =      0.015 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment =       9.87(Ac.)  =      0.015 Sq. Mi.
Length along longest watercourse =    1180.00(Ft.)
Length along longest watercourse measured to centroid =     590.00(Ft.)
Length along longest watercourse =      0.223 Mi.
Length along longest watercourse measured to centroid =      0.112 Mi.
Difference in elevation =      18.60(Ft.)
Slope along watercourse =     83.2271 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time =    0.038 Hr.
Lag time =     2.29 Min.
25% of lag time =     0.57 Min.
40% of lag time =     0.92 Min.
Unit time =     5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow =     0.00(CFS)

2 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            1.80                17.77

100 YEAR Area rainfall data:


Area(Ac.)[1]       Rainfall(In)[2]      Weighting[1*2]
        9.87            4.50                44.41

STORM EVENT (YEAR) =  100.00
Area Averaged 2-Year Rainfall =    1.800(In)
Area Averaged 100-Year Rainfall =    4.500(In)

Point rain (area averaged) =    4.500(In)
Areal adjustment factor =  100.00 %
Adjusted average point rain =    4.500(In)

Sub-Area Data:
Area(Ac.)         Runoff Index   Impervious %
     9.870           56.00          0.650
 Total Area Entered =      9.87(Ac.)


RI    RI   Infil. Rate Impervious   Adj. Infil. Rate  Area%     F
AMC2 AMC-2     (In/Hr)    (Dec.%)     (In/Hr)      (Dec.)    (In/Hr)
56.0  56.0      0.511     0.650        0.212       1.000      0.212
                                                 Sum (F) =   0.212
Area averaged mean soil loss (F) (In/Hr) =  0.212
Minimum soil loss rate ((In/Hr)) =  0.106
(for 24 hour storm duration)
Soil low loss rate (decimal) =   0.380
------------------------------------------------------------------------

               U n i t  H y d r o g r a p h
                      VALLEY S-Curve
-------------------------------------------------------------------
               Unit Hydrograph Data
------------------------------------------------------------------------
Unit time period   Time % of lag   Distribution   Unit Hydrograph
    (hrs)                          Graph %           (CFS)
------------------------------------------------------------------------
```

1	0.083	217.936	46.337	4.609
2	0.167	435.872	42.135	4.191
3	0.250	653.809	8.112	0.807
4	0.333	871.745	3.415	0.340
			Sum = 100.000 Sum=	9.947

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.036	(0.376)	0.014	0.022
2	0.17	0.07	0.036	(0.374)	0.014	0.022
3	0.25	0.07	0.036	(0.373)	0.014	0.022
4	0.33	0.10	0.054	(0.371)	0.021	0.033
5	0.42	0.10	0.054	(0.370)	0.021	0.033
6	0.50	0.10	0.054	(0.369)	0.021	0.033
7	0.58	0.10	0.054	(0.367)	0.021	0.033
8	0.67	0.10	0.054	(0.366)	0.021	0.033
9	0.75	0.10	0.054	(0.364)	0.021	0.033
10	0.83	0.13	0.072	(0.363)	0.027	0.045
11	0.92	0.13	0.072	(0.361)	0.027	0.045
12	1.00	0.13	0.072	(0.360)	0.027	0.045
13	1.08	0.10	0.054	(0.359)	0.021	0.033
14	1.17	0.10	0.054	(0.357)	0.021	0.033
15	1.25	0.10	0.054	(0.356)	0.021	0.033
16	1.33	0.10	0.054	(0.354)	0.021	0.033
17	1.42	0.10	0.054	(0.353)	0.021	0.033
18	1.50	0.10	0.054	(0.351)	0.021	0.033
19	1.58	0.10	0.054	(0.350)	0.021	0.033
20	1.67	0.10	0.054	(0.349)	0.021	0.033
21	1.75	0.10	0.054	(0.347)	0.021	0.033
22	1.83	0.13	0.072	(0.346)	0.027	0.045
23	1.92	0.13	0.072	(0.344)	0.027	0.045
24	2.00	0.13	0.072	(0.343)	0.027	0.045
25	2.08	0.13	0.072	(0.342)	0.027	0.045
26	2.17	0.13	0.072	(0.340)	0.027	0.045
27	2.25	0.13	0.072	(0.339)	0.027	0.045
28	2.33	0.13	0.072	(0.338)	0.027	0.045
29	2.42	0.13	0.072	(0.336)	0.027	0.045
30	2.50	0.13	0.072	(0.335)	0.027	0.045
31	2.58	0.17	0.090	(0.333)	0.034	0.056
32	2.67	0.17	0.090	(0.332)	0.034	0.056
33	2.75	0.17	0.090	(0.331)	0.034	0.056
34	2.83	0.17	0.090	(0.329)	0.034	0.056
35	2.92	0.17	0.090	(0.328)	0.034	0.056
36	3.00	0.17	0.090	(0.327)	0.034	0.056
37	3.08	0.17	0.090	(0.325)	0.034	0.056
38	3.17	0.17	0.090	(0.324)	0.034	0.056
39	3.25	0.17	0.090	(0.323)	0.034	0.056
40	3.33	0.17	0.090	(0.321)	0.034	0.056
41	3.42	0.17	0.090	(0.320)	0.034	0.056
42	3.50	0.17	0.090	(0.319)	0.034	0.056
43	3.58	0.17	0.090	(0.317)	0.034	0.056
44	3.67	0.17	0.090	(0.316)	0.034	0.056
45	3.75	0.17	0.090	(0.315)	0.034	0.056
46	3.83	0.20	0.108	(0.313)	0.041	0.067
47	3.92	0.20	0.108	(0.312)	0.041	0.067
48	4.00	0.20	0.108	(0.311)	0.041	0.067
49	4.08	0.20	0.108	(0.309)	0.041	0.067
50	4.17	0.20	0.108	(0.308)	0.041	0.067
51	4.25	0.20	0.108	(0.307)	0.041	0.067
52	4.33	0.23	0.126	(0.305)	0.048	0.078
53	4.42	0.23	0.126	(0.304)	0.048	0.078
54	4.50	0.23	0.126	(0.303)	0.048	0.078
55	4.58	0.23	0.126	(0.301)	0.048	0.078
56	4.67	0.23	0.126	(0.300)	0.048	0.078
57	4.75	0.23	0.126	(0.299)	0.048	0.078
58	4.83	0.27	0.144	(0.298)	0.055	0.089
59	4.92	0.27	0.144	(0.296)	0.055	0.089
60	5.00	0.27	0.144	(0.295)	0.055	0.089
61	5.08	0.20	0.108	(0.294)	0.041	0.067
62	5.17	0.20	0.108	(0.292)	0.041	0.067
63	5.25	0.20	0.108	(0.291)	0.041	0.067
64	5.33	0.23	0.126	(0.290)	0.048	0.078
65	5.42	0.23	0.126	(0.289)	0.048	0.078
66	5.50	0.23	0.126	(0.287)	0.048	0.078
67	5.58	0.27	0.144	(0.286)	0.055	0.089
68	5.67	0.27	0.144	(0.285)	0.055	0.089
69	5.75	0.27	0.144	(0.284)	0.055	0.089
70	5.83	0.27	0.144	(0.282)	0.055	0.089
71	5.92	0.27	0.144	(0.281)	0.055	0.089
72	6.00	0.27	0.144	(0.280)	0.055	0.089
73	6.08	0.30	0.162	(0.279)	0.062	0.100
74	6.17	0.30	0.162	(0.277)	0.062	0.100

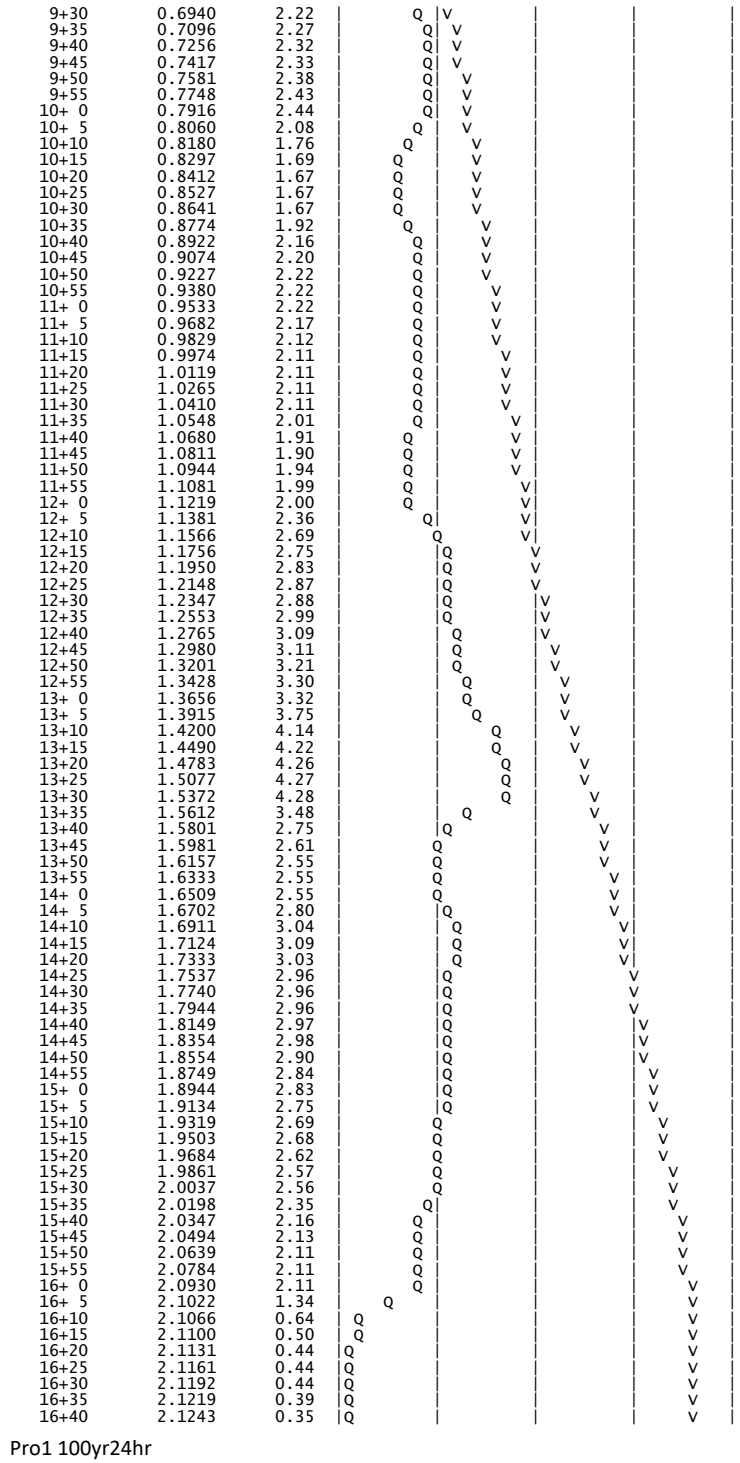
75	6.25	0.30	0.162	(0.276)	0.062	0.100
76	6.33	0.30	0.162	(0.275)	0.062	0.100
77	6.42	0.30	0.162	(0.274)	0.062	0.100
78	6.50	0.30	0.162	(0.272)	0.062	0.100
79	6.58	0.33	0.180	(0.271)	0.068	0.112
80	6.67	0.33	0.180	(0.270)	0.068	0.112
81	6.75	0.33	0.180	(0.269)	0.068	0.112
82	6.83	0.33	0.180	(0.268)	0.068	0.112
83	6.92	0.33	0.180	(0.266)	0.068	0.112
84	7.00	0.33	0.180	(0.265)	0.068	0.112
85	7.08	0.33	0.180	(0.264)	0.068	0.112
86	7.17	0.33	0.180	(0.263)	0.068	0.112
87	7.25	0.33	0.180	(0.262)	0.068	0.112
88	7.33	0.37	0.198	(0.260)	0.075	0.123
89	7.42	0.37	0.198	(0.259)	0.075	0.123
90	7.50	0.37	0.198	(0.258)	0.075	0.123
91	7.58	0.40	0.216	(0.257)	0.082	0.134
92	7.67	0.40	0.216	(0.256)	0.082	0.134
93	7.75	0.40	0.216	(0.254)	0.082	0.134
94	7.83	0.43	0.234	(0.253)	0.089	0.145
95	7.92	0.43	0.234	(0.252)	0.089	0.145
96	8.00	0.43	0.234	(0.251)	0.089	0.145
97	8.08	0.50	0.270	(0.250)	0.103	0.167
98	8.17	0.50	0.270	(0.249)	0.103	0.167
99	8.25	0.50	0.270	(0.247)	0.103	0.167
100	8.33	0.50	0.270	(0.246)	0.103	0.167
101	8.42	0.50	0.270	(0.245)	0.103	0.167
102	8.50	0.50	0.270	(0.244)	0.103	0.167
103	8.58	0.53	0.288	(0.243)	0.109	0.179
104	8.67	0.53	0.288	(0.242)	0.109	0.179
105	8.75	0.53	0.288	(0.241)	0.109	0.179
106	8.83	0.57	0.306	(0.239)	0.116	0.190
107	8.92	0.57	0.306	(0.238)	0.116	0.190
108	9.00	0.57	0.306	(0.237)	0.116	0.190
109	9.08	0.63	0.342	(0.236)	0.130	0.212
110	9.17	0.63	0.342	(0.235)	0.130	0.212
111	9.25	0.63	0.342	(0.234)	0.130	0.212
112	9.33	0.67	0.360	(0.233)	0.137	0.223
113	9.42	0.67	0.360	(0.232)	0.137	0.223
114	9.50	0.67	0.360	(0.230)	0.137	0.223
115	9.58	0.70	0.378	(0.229)	0.144	0.234
116	9.67	0.70	0.378	(0.228)	0.144	0.234
117	9.75	0.70	0.378	(0.227)	0.144	0.234
118	9.83	0.73	0.396	(0.226)	0.150	0.246
119	9.92	0.73	0.396	(0.225)	0.150	0.246
120	10.00	0.73	0.396	(0.224)	0.150	0.246
121	10.08	0.50	0.270	(0.223)	0.103	0.167
122	10.17	0.50	0.270	(0.222)	0.103	0.167
123	10.25	0.50	0.270	(0.221)	0.103	0.167
124	10.33	0.50	0.270	(0.220)	0.103	0.167
125	10.42	0.50	0.270	(0.218)	0.103	0.167
126	10.50	0.50	0.270	(0.217)	0.103	0.167
127	10.58	0.67	0.360	(0.216)	0.137	0.223
128	10.67	0.67	0.360	(0.215)	0.137	0.223
129	10.75	0.67	0.360	(0.214)	0.137	0.223
130	10.83	0.67	0.360	(0.213)	0.137	0.223
131	10.92	0.67	0.360	(0.212)	0.137	0.223
132	11.00	0.67	0.360	(0.211)	0.137	0.223
133	11.08	0.63	0.342	(0.210)	0.130	0.212
134	11.17	0.63	0.342	(0.209)	0.130	0.212
135	11.25	0.63	0.342	(0.208)	0.130	0.212
136	11.33	0.63	0.342	(0.207)	0.130	0.212
137	11.42	0.63	0.342	(0.206)	0.130	0.212
138	11.50	0.63	0.342	(0.205)	0.130	0.212
139	11.58	0.57	0.306	(0.204)	0.116	0.190
140	11.67	0.57	0.306	(0.203)	0.116	0.190
141	11.75	0.57	0.306	(0.202)	0.116	0.190
142	11.83	0.60	0.324	(0.201)	0.123	0.201
143	11.92	0.60	0.324	(0.200)	0.123	0.201
144	12.00	0.60	0.324	(0.199)	0.123	0.201
145	12.08	0.83	0.450	(0.198)	0.171	0.279
146	12.17	0.83	0.450	(0.197)	0.171	0.279
147	12.25	0.83	0.450	(0.196)	0.171	0.279
148	12.33	0.87	0.468	(0.195)	0.178	0.290
149	12.42	0.87	0.468	(0.194)	0.178	0.290
150	12.50	0.87	0.468	(0.193)	0.178	0.290
151	12.58	0.93	0.504	(0.192)	0.192	0.312
152	12.67	0.93	0.504	0.191	(0.192)	0.313
153	12.75	0.93	0.504	0.190	(0.192)	0.314
154	12.83	0.97	0.522	0.189	(0.198)	0.333
155	12.92	0.97	0.522	0.188	(0.198)	0.334
156	13.00	0.97	0.522	0.187	(0.198)	0.335
157	13.08	1.13	0.612	0.186	(0.233)	0.426
158	13.17	1.13	0.612	0.185	(0.233)	0.427
159	13.25	1.13	0.612	0.184	(0.233)	0.428
160	13.33	1.13	0.612	0.183	(0.233)	0.429
161	13.42	1.13	0.612	0.182	(0.233)	0.429

162	13.50	1.13	0.612	0.182	(0.233)	0.430
163	13.58	0.77	0.414	(0.181)	0.157	0.257
164	13.67	0.77	0.414	(0.180)	0.157	0.257
165	13.75	0.77	0.414	(0.179)	0.157	0.257
166	13.83	0.77	0.414	(0.178)	0.157	0.257
167	13.92	0.77	0.414	(0.177)	0.157	0.257
168	14.00	0.77	0.414	(0.176)	0.157	0.257
169	14.08	0.90	0.486	0.175	(0.185)	0.311
170	14.17	0.90	0.486	0.174	(0.185)	0.312
171	14.25	0.90	0.486	0.173	(0.185)	0.313
172	14.33	0.87	0.468	0.173	(0.178)	0.295
173	14.42	0.87	0.468	0.172	(0.178)	0.296
174	14.50	0.87	0.468	0.171	(0.178)	0.297
175	14.58	0.87	0.468	0.170	(0.178)	0.298
176	14.67	0.87	0.468	0.169	(0.178)	0.299
177	14.75	0.87	0.468	0.168	(0.178)	0.300
178	14.83	0.83	0.450	0.167	(0.171)	0.283
179	14.92	0.83	0.450	0.166	(0.171)	0.284
180	15.00	0.83	0.450	0.166	(0.171)	0.284
181	15.08	0.80	0.432	(0.165)	0.164	0.268
182	15.17	0.80	0.432	0.164	(0.164)	0.268
183	15.25	0.80	0.432	0.163	(0.164)	0.269
184	15.33	0.77	0.414	(0.162)	0.157	0.257
185	15.42	0.77	0.414	(0.161)	0.157	0.257
186	15.50	0.77	0.414	(0.161)	0.157	0.257
187	15.58	0.63	0.342	(0.160)	0.130	0.212
188	15.67	0.63	0.342	(0.159)	0.130	0.212
189	15.75	0.63	0.342	(0.158)	0.130	0.212
190	15.83	0.63	0.342	(0.157)	0.130	0.212
191	15.92	0.63	0.342	(0.156)	0.130	0.212
192	16.00	0.63	0.342	(0.156)	0.130	0.212
193	16.08	0.13	0.072	(0.155)	0.027	0.045
194	16.17	0.13	0.072	(0.154)	0.027	0.045
195	16.25	0.13	0.072	(0.153)	0.027	0.045
196	16.33	0.13	0.072	(0.153)	0.027	0.045
197	16.42	0.13	0.072	(0.152)	0.027	0.045
198	16.50	0.13	0.072	(0.151)	0.027	0.045
199	16.58	0.10	0.054	(0.150)	0.021	0.033
200	16.67	0.10	0.054	(0.149)	0.021	0.033
201	16.75	0.10	0.054	(0.149)	0.021	0.033
202	16.83	0.10	0.054	(0.148)	0.021	0.033
203	16.92	0.10	0.054	(0.147)	0.021	0.033
204	17.00	0.10	0.054	(0.146)	0.021	0.033
205	17.08	0.17	0.090	(0.146)	0.034	0.056
206	17.17	0.17	0.090	(0.145)	0.034	0.056
207	17.25	0.17	0.090	(0.144)	0.034	0.056
208	17.33	0.17	0.090	(0.143)	0.034	0.056
209	17.42	0.17	0.090	(0.143)	0.034	0.056
210	17.50	0.17	0.090	(0.142)	0.034	0.056
211	17.58	0.17	0.090	(0.141)	0.034	0.056
212	17.67	0.17	0.090	(0.141)	0.034	0.056
213	17.75	0.17	0.090	(0.140)	0.034	0.056
214	17.83	0.13	0.072	(0.139)	0.027	0.045
215	17.92	0.13	0.072	(0.139)	0.027	0.045
216	18.00	0.13	0.072	(0.138)	0.027	0.045
217	18.08	0.13	0.072	(0.137)	0.027	0.045
218	18.17	0.13	0.072	(0.137)	0.027	0.045
219	18.25	0.13	0.072	(0.136)	0.027	0.045
220	18.33	0.13	0.072	(0.135)	0.027	0.045
221	18.42	0.13	0.072	(0.135)	0.027	0.045
222	18.50	0.13	0.072	(0.134)	0.027	0.045
223	18.58	0.10	0.054	(0.133)	0.021	0.033
224	18.67	0.10	0.054	(0.133)	0.021	0.033
225	18.75	0.10	0.054	(0.132)	0.021	0.033
226	18.83	0.07	0.036	(0.131)	0.014	0.022
227	18.92	0.07	0.036	(0.131)	0.014	0.022
228	19.00	0.07	0.036	(0.130)	0.014	0.022
229	19.08	0.10	0.054	(0.129)	0.021	0.033
230	19.17	0.10	0.054	(0.129)	0.021	0.033
231	19.25	0.10	0.054	(0.128)	0.021	0.033
232	19.33	0.13	0.072	(0.128)	0.027	0.045
233	19.42	0.13	0.072	(0.127)	0.027	0.045
234	19.50	0.13	0.072	(0.126)	0.027	0.045
235	19.58	0.10	0.054	(0.126)	0.021	0.033
236	19.67	0.10	0.054	(0.125)	0.021	0.033
237	19.75	0.10	0.054	(0.125)	0.021	0.033
238	19.83	0.07	0.036	(0.124)	0.014	0.022
239	19.92	0.07	0.036	(0.124)	0.014	0.022
240	20.00	0.07	0.036	(0.123)	0.014	0.022
241	20.08	0.10	0.054	(0.123)	0.021	0.033
242	20.17	0.10	0.054	(0.122)	0.021	0.033
243	20.25	0.10	0.054	(0.121)	0.021	0.033
244	20.33	0.10	0.054	(0.121)	0.021	0.033
245	20.42	0.10	0.054	(0.120)	0.021	0.033
246	20.50	0.10	0.054	(0.120)	0.021	0.033
247	20.58	0.10	0.054	(0.119)	0.021	0.033
248	20.67	0.10	0.054	(0.119)	0.021	0.033

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249  20.75     0.10      0.054       (  0.118)       0.021        0.033
250  20.83     0.07      0.036       (  0.118)       0.014        0.022
251  20.92     0.07      0.036       (  0.117)       0.014        0.022
252  21.00     0.07      0.036       (  0.117)       0.014        0.022
253  21.08     0.10      0.054       (  0.117)       0.021        0.033
254  21.17     0.10      0.054       (  0.116)       0.021        0.033
255  21.25     0.10      0.054       (  0.116)       0.021        0.033
256  21.33     0.07      0.036       (  0.115)       0.014        0.022
257  21.42     0.07      0.036       (  0.115)       0.014        0.022
258  21.50     0.07      0.036       (  0.114)       0.014        0.022
259  21.58     0.10      0.054       (  0.114)       0.021        0.033
260  21.67     0.10      0.054       (  0.113)       0.021        0.033
261  21.75     0.10      0.054       (  0.113)       0.021        0.033
262  21.83     0.07      0.036       (  0.113)       0.014        0.022
263  21.92     0.07      0.036       (  0.112)       0.014        0.022
264  22.00     0.07      0.036       (  0.112)       0.014        0.022
265  22.08     0.10      0.054       (  0.112)       0.021        0.033
266  22.17     0.10      0.054       (  0.111)       0.021        0.033
267  22.25     0.10      0.054       (  0.111)       0.021        0.033
268  22.33     0.07      0.036       (  0.110)       0.014        0.022
269  22.42     0.07      0.036       (  0.110)       0.014        0.022
270  22.50     0.07      0.036       (  0.110)       0.014        0.022
271  22.58     0.07      0.036       (  0.110)       0.014        0.022
272  22.67     0.07      0.036       (  0.109)       0.014        0.022
273  22.75     0.07      0.036       (  0.109)       0.014        0.022
274  22.83     0.07      0.036       (  0.109)       0.014        0.022
275  22.92     0.07      0.036       (  0.108)       0.014        0.022
276  23.00     0.07      0.036       (  0.108)       0.014        0.022
277  23.08     0.07      0.036       (  0.108)       0.014        0.022
278  23.17     0.07      0.036       (  0.108)       0.014        0.022
279  23.25     0.07      0.036       (  0.107)       0.014        0.022
280  23.33     0.07      0.036       (  0.107)       0.014        0.022
281  23.42     0.07      0.036       (  0.107)       0.014        0.022
282  23.50     0.07      0.036       (  0.107)       0.014        0.022
283  23.58     0.07      0.036       (  0.107)       0.014        0.022
284  23.67     0.07      0.036       (  0.106)       0.014        0.022
285  23.75     0.07      0.036       (  0.106)       0.014        0.022
286  23.83     0.07      0.036       (  0.106)       0.014        0.022
287  23.92     0.07      0.036       (  0.106)       0.014        0.022
288  24.00     0.07      0.036       (  0.106)       0.014        0.022
                (Loss Rate Not Used)
    Sum =     100.0                                  Sum =    33.9
      Flood volume = Effective rainfall      2.82(In)
       times area       9.9(Ac.)/[(In)/(Ft.)] =       2.3(Ac.Ft)
      Total soil loss =      1.68(In)
      Total soil loss =     1.378(Ac.Ft)
      Total rainfall =      4.50(In)
      Flood volume =      101200.2 Cubic Feet
      Total soil loss =       60023.1 Cubic Feet
      ---------------------------------------------------------------------
       Peak flow rate of this hydrograph =      4.277(CFS)
      ---------------------------------------------------------------------
      +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                          24 - 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   5   Minute intervals ((CFS))

      ---------------------------------------------------------------------
 Time(h+m) Volume Ac.Ft   Q(CFS)  0        2.5       5.0       7.5      10.0
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   0+ 5       0.0007      0.10  Q         |         |         |         |
   0+10       0.0021      0.20  Q         |         |         |         |
   0+15       0.0035      0.21  Q         |         |         |         |
   0+20       0.0054      0.27  VQ        |         |         |         |
   0+25       0.0076      0.32  VQ        |         |         |         |
   0+30       0.0099      0.33  VQ        |         |         |         |
   0+35       0.0122      0.33  VQ        |         |         |         |
   0+40       0.0145      0.33  VQ        |         |         |         |
   0+45       0.0168      0.33  VQ        |         |         |         |
   0+50       0.0194      0.38  VQ        |         |         |         |
   0+55       0.0224      0.43  VQ        |         |         |         |
   1+ 0       0.0254      0.44  VQ        |         |         |         |
   1+ 5       0.0281      0.39  VQ        |         |         |         |
   1+10       0.0305      0.35  VQ        |         |         |         |
   1+15       0.0328      0.34  VQ        |         |         |         |
   1+20       0.0351      0.33  VQ        |         |         |         |
   1+25       0.0374      0.33  VQ        |         |         |         |
   1+30       0.0397      0.33  VQ        |         |         |         |
   1+35       0.0420      0.33  VQ        |         |         |         |
   1+40       0.0443      0.33  VQ        |         |         |         |
   1+45       0.0466      0.33  VQ        |         |         |         |
   1+50       0.0493      0.38  VQ        |         |         |         |
   1+55       0.0522      0.43  VQ        |         |         |         |
   2+ 0       0.0553      0.44  VQ        |         |         |         |
   2+ 5       0.0583      0.44  |Q        |         |         |         |
   2+10       0.0614      0.44  |Q        |         |         |         |
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2+15	0.0644	0.44	Q				
2+20	0.0675	0.44	Q				
2+25	0.0706	0.44	Q				
2+30	0.0736	0.44	Q				
2+35	0.0770	0.50	Q				
2+40	0.0808	0.54	VQ				
2+45	0.0846	0.55	VQ				
2+50	0.0884	0.56	VQ				
2+55	0.0922	0.56	VQ				
3+ 0	0.0960	0.56	VQ				
3+ 5	0.0999	0.56	VQ				
3+10	0.1037	0.56	VQ				
3+15	0.1075	0.56	VQ				
3+20	0.1113	0.56	VQ				
3+25	0.1152	0.56	VQ				
3+30	0.1190	0.56	Q				
3+35	0.1228	0.56	Q				
3+40	0.1266	0.56	Q				
3+45	0.1305	0.56	Q				
3+50	0.1346	0.61	Q				
3+55	0.1392	0.65	Q				
4+ 0	0.1437	0.66	Q				
4+ 5	0.1483	0.67	Q				
4+10	0.1529	0.67	Q				
4+15	0.1575	0.67	Q				
4+20	0.1624	0.72	Q				
4+25	0.1677	0.76	VQ				
4+30	0.1730	0.77	VQ				
4+35	0.1784	0.78	Q				
4+40	0.1837	0.78	Q				
4+45	0.1891	0.78	Q				
4+50	0.1948	0.83	Q				
4+55	0.2008	0.88	Q				
5+ 0	0.2069	0.88	Q				
5+ 5	0.2123	0.79	Q				
5+10	0.2171	0.69	QV				
5+15	0.2217	0.67	QV				
5+20	0.2267	0.72	QV				
5+25	0.2319	0.76	Q				
5+30	0.2373	0.77	QV				
5+35	0.2430	0.83	QV				
5+40	0.2490	0.88	QV				
5+45	0.2551	0.88	QV				
5+50	0.2612	0.89	QV				
5+55	0.2673	0.89	QV				
6+ 0	0.2735	0.89	QV				
6+ 5	0.2799	0.94	QV				
6+10	0.2867	0.99	QV				
6+15	0.2936	1.00	Q V				
6+20	0.3005	1.00	Q V				
6+25	0.3074	1.00	Q V				
6+30	0.3142	1.00	Q V				
6+35	0.3215	1.05	QV				
6+40	0.3290	1.10	QV				
6+45	0.3367	1.11	QV				
6+50	0.3443	1.11	QV				
6+55	0.3520	1.11	Q V				
7+ 0	0.3596	1.11	Q V				
7+ 5	0.3673	1.11	Q V				
7+10	0.3749	1.11	Q V				
7+15	0.3826	1.11	Q V				
7+20	0.3906	1.16	Q V				
7+25	0.3989	1.21	Q V				
7+30	0.4073	1.22	Q V				
7+35	0.4160	1.27	Q V				
7+40	0.4251	1.32	Q V				
7+45	0.4343	1.33	Q V				
7+50	0.4438	1.38	Q V				
7+55	0.4537	1.43	Q V				
8+ 0	0.4636	1.44	Q V				
8+ 5	0.4743	1.55	Q V				
8+10	0.4855	1.64	Q V				
8+15	0.4970	1.66	Q V				
8+20	0.5084	1.67	Q V				
8+25	0.5199	1.67	Q V				
8+30	0.5314	1.67	Q V				
8+35	0.5432	1.72	Q V				
8+40	0.5554	1.76	Q V				
8+45	0.5676	1.77	Q V				
8+50	0.5802	1.83	Q V				
8+55	0.5931	1.88	Q V				
9+ 0	0.6061	1.88	Q V				
9+ 5	0.6198	1.99	Q V				
9+10	0.6341	2.08	Q V				
9+15	0.6486	2.10	Q V				
9+20	0.6635	2.16	Q V				
9+25	0.6787	2.21	Q V				

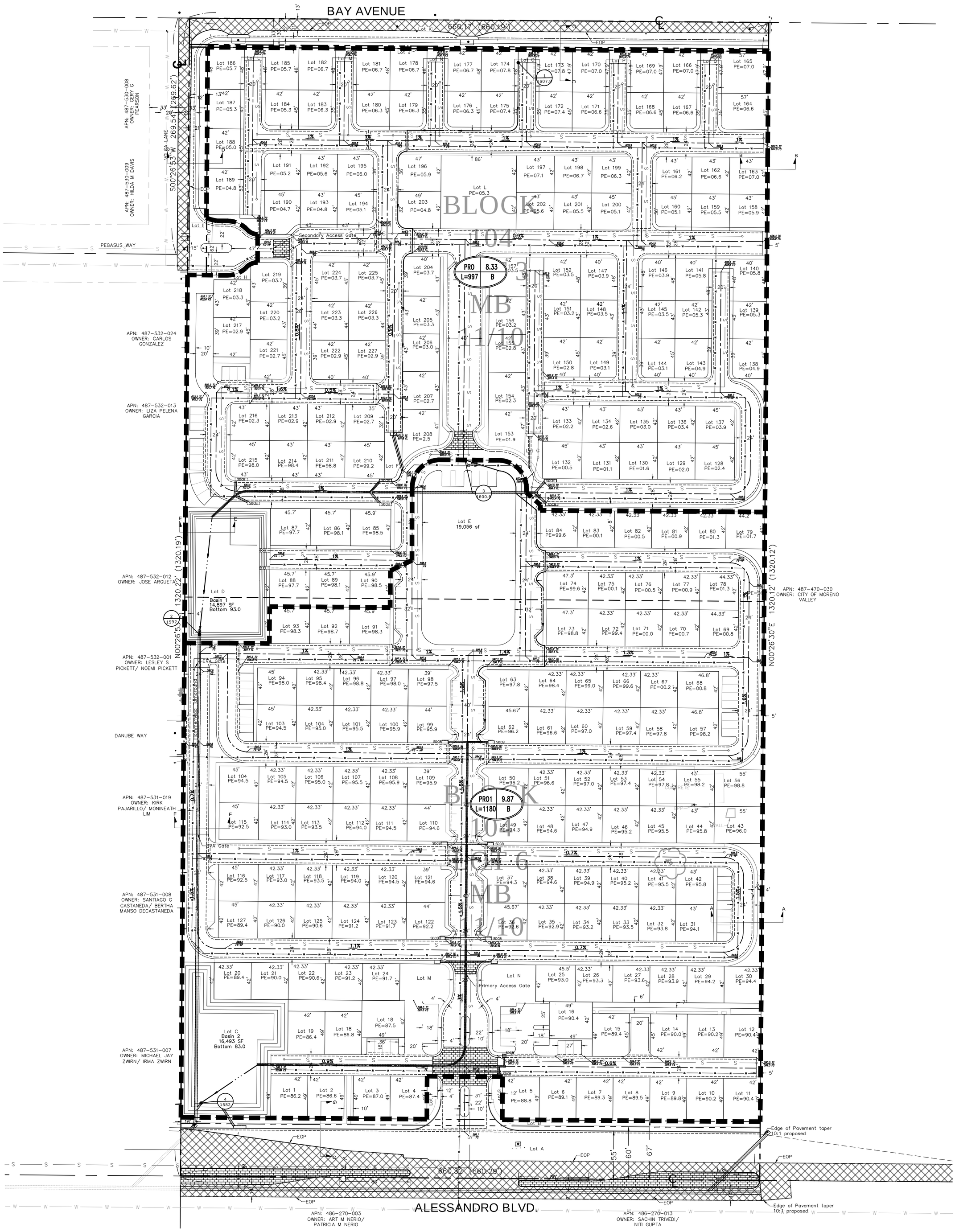


9+30	0.6940	2.22	
9+35	0.7096	2.27	
9+40	0.7256	2.32	
9+45	0.7417	2.33	
9+50	0.7581	2.38	
9+55	0.7748	2.43	
10+ 0	0.7916	2.44	
10+ 5	0.8060	2.08	
10+10	0.8180	1.76	
10+15	0.8297	1.69	
10+20	0.8412	1.67	
10+25	0.8527	1.67	
10+30	0.8641	1.67	
10+35	0.8774	1.92	
10+40	0.8922	2.16	
10+45	0.9074	2.20	
10+50	0.9227	2.22	
10+55	0.9380	2.22	
11+ 0	0.9533	2.22	
11+ 5	0.9682	2.17	
11+10	0.9829	2.12	
11+15	0.9974	2.11	
11+20	1.0119	2.11	
11+25	1.0265	2.11	
11+30	1.0410	2.11	
11+35	1.0548	2.01	
11+40	1.0680	1.91	
11+45	1.0811	1.90	
11+50	1.0944	1.94	
11+55	1.1081	1.99	
12+ 0	1.1219	2.00	
12+ 5	1.1381	2.36	
12+10	1.1566	2.69	
12+15	1.1756	2.75	
12+20	1.1950	2.83	
12+25	1.2148	2.87	
12+30	1.2347	2.88	
12+35	1.2553	2.99	
12+40	1.2765	3.09	
12+45	1.2980	3.11	
12+50	1.3201	3.21	
12+55	1.3428	3.30	
13+ 0	1.3656	3.32	
13+ 5	1.3915	3.75	
13+10	1.4200	4.14	
13+15	1.4490	4.22	
13+20	1.4783	4.26	
13+25	1.5077	4.27	
13+30	1.5372	4.28	
13+35	1.5612	3.48	
13+40	1.5801	2.75	
13+45	1.5981	2.61	
13+50	1.6157	2.55	
13+55	1.6333	2.55	
14+ 0	1.6509	2.55	
14+ 5	1.6702	2.80	
14+10	1.6911	3.04	
14+15	1.7124	3.09	
14+20	1.7333	3.03	
14+25	1.7537	2.96	
14+30	1.7740	2.96	
14+35	1.7944	2.96	
14+40	1.8149	2.97	
14+45	1.8354	2.98	
14+50	1.8554	2.90	
14+55	1.8749	2.84	
15+ 0	1.8944	2.83	
15+ 5	1.9134	2.75	
15+10	1.9319	2.69	
15+15	1.9503	2.68	
15+20	1.9684	2.62	
15+25	1.9861	2.57	
15+30	2.0037	2.56	
15+35	2.0198	2.35	
15+40	2.0347	2.16	
15+45	2.0494	2.13	
15+50	2.0639	2.11	
15+55	2.0784	2.11	
16+ 0	2.0930	2.11	
16+ 5	2.1022	1.34	
16+10	2.1066	0.64	
16+15	2.1100	0.50	
16+20	2.1131	0.44	
16+25	2.1161	0.44	
16+30	2.1192	0.44	
16+35	2.1219	0.39	
16+40	2.1243	0.35	

```
16+45       2.1266      0.34  |Q        |         |         |     V   |
16+50       2.1289      0.33  |Q        |         |         |     V   |
16+55       2.1312      0.33  |Q        |         |         |     V   |
17+ 0       2.1335      0.33  |Q        |         |         |     V   |
17+ 5       2.1365      0.44  |Q        |         |         |     V   |
17+10       2.1401      0.53  | Q       |         |         |     V   |
17+15       2.1439      0.55  | Q       |         |         |     V   |
17+20       2.1477      0.56  | Q       |         |         |     V   |
17+25       2.1516      0.56  | Q       |         |         |      V  |
17+30       2.1554      0.56  | Q       |         |         |      V  |
17+35       2.1592      0.56  | Q       |         |         |      V  |
17+40       2.1630      0.56  | Q       |         |         |      V  |
17+45       2.1669      0.56  | Q       |         |         |      V  |
17+50       2.1703      0.50  | Q       |         |         |      V  |
17+55       2.1735      0.46  |Q        |         |         |      V  |
18+ 0       2.1766      0.45  |Q        |         |         |      V  |
18+ 5       2.1796      0.44  |Q        |         |         |      V  |
18+10       2.1827      0.44  |Q        |         |         |      V  |
18+15       2.1857      0.44  |Q        |         |         |      V  |
18+20       2.1888      0.44  |Q        |         |         |      V  |
18+25       2.1919      0.44  |Q        |         |         |      V  |
18+30       2.1949      0.44  |Q        |         |         |      V  |
18+35       2.1976      0.39  |Q        |         |         |      V  |
18+40       2.2000      0.35  |Q        |         |         |      V  |
18+45       2.2023      0.34  |Q        |         |         |      V  |
18+50       2.2043      0.28  |Q        |         |         |      V  |
18+55       2.2059      0.23  Q         |         |         |      V  |
19+ 0       2.2075      0.23  Q         |         |         |       V |
19+ 5       2.2093      0.27  |Q        |         |         |       V |
19+10       2.2115      0.32  |Q        |         |         |       V |
19+15       2.2138      0.33  |Q        |         |         |       V |
19+20       2.2165      0.38  |Q        |         |         |       V |
19+25       2.2194      0.43  |Q        |         |         |       V |
19+30       2.2225      0.44  |Q        |         |         |       V |
19+35       2.2252      0.39  |Q        |         |         |       V |
19+40       2.2276      0.35  |Q        |         |         |       V |
19+45       2.2299      0.34  |Q        |         |         |       V |
19+50       2.2318      0.28  |Q        |         |         |       V |
19+55       2.2334      0.23  Q         |         |         |       V |
20+ 0       2.2350      0.23  Q         |         |         |       V |
20+ 5       2.2369      0.27  |Q        |         |         |       V |
20+10       2.2391      0.32  |Q        |         |         |       V |
20+15       2.2413      0.33  |Q        |         |         |       V |
20+20       2.2436      0.33  |Q        |         |         |       V |
20+25       2.2459      0.33  |Q        |         |         |       V |
20+30       2.2482      0.33  |Q        |         |         |       V |
20+35       2.2505      0.33  |Q        |         |         |       V |
20+40       2.2528      0.33  |Q        |         |         |       V |
20+45       2.2551      0.33  |Q        |         |         |       V |
20+50       2.2571      0.28  |Q        |         |         |       V |
20+55       2.2587      0.23  Q         |         |         |       V |
21+ 0       2.2602      0.23  Q         |         |         |       V |
21+ 5       2.2621      0.27  |Q        |         |         |       V |
21+10       2.2643      0.32  |Q        |         |         |       V |
21+15       2.2666      0.33  |Q        |         |         |        V|
21+20       2.2685      0.28  |Q        |         |         |        V|
21+25       2.2701      0.23  Q         |         |         |        V|
21+30       2.2717      0.23  Q         |         |         |        V|
21+35       2.2736      0.27  |Q        |         |         |        V|
21+40       2.2758      0.32  |Q        |         |         |        V|
21+45       2.2781      0.33  |Q        |         |         |        V|
21+50       2.2800      0.28  |Q        |         |         |        V|
21+55       2.2816      0.23  Q         |         |         |        V|
22+ 0       2.2832      0.23  Q         |         |         |        V|
22+ 5       2.2851      0.27  |Q        |         |         |        V|
22+10       2.2873      0.32  |Q        |         |         |        V|
22+15       2.2895      0.33  |Q        |         |         |        V|
22+20       2.2915      0.28  |Q        |         |         |        V|
22+25       2.2931      0.23  Q         |         |         |        V|
22+30       2.2947      0.23  Q         |         |         |        V|
22+35       2.2962      0.22  Q         |         |         |        V|
22+40       2.2977      0.22  Q         |         |         |        V|
22+45       2.2992      0.22  Q         |         |         |        V|
22+50       2.3008      0.22  Q         |         |         |        V|
22+55       2.3023      0.22  Q         |         |         |        V|
23+ 0       2.3038      0.22  Q         |         |         |        V|
23+ 5       2.3054      0.22  Q         |         |         |        V|
23+10       2.3069      0.22  Q         |         |         |        V|
23+15       2.3084      0.22  Q         |         |         |        V|
23+20       2.3099      0.22  Q         |         |         |        V|
23+25       2.3115      0.22  Q         |         |         |        V|
23+30       2.3130      0.22  Q         |         |         |        V|
23+35       2.3145      0.22  Q         |         |         |        V|
23+40       2.3161      0.22  Q         |         |         |        V|
23+45       2.3176      0.22  Q         |         |         |        V|
23+50       2.3191      0.22  Q         |         |         |        V|
23+55       2.3207      0.22  Q         |         |         |        V|
```

```
   24+ 0       2.3222      0.22  Q         |         |         |        V|
   24+ 5       2.3230      0.12  Q         |         |         |        V|
   24+10       2.3232      0.03  Q         |         |         |        V|
   24+15       2.3232      0.01  Q         |         |         |         V
-------------------------------------------------------------------------
```

POST-DEVELOPMENT UNIT HYROGRAPH MAP
TTM 38265



0 50 150
25 100 200
SCALE: 1" = 50'

LEGEND

NODE / ELEV

AREA | ACRES
LENGTH | SOIL

DRAINAGE AREA BOUNDARY

FLOW PATH

POST DEVELOPMENT
UNIT HYDROGRAPH MAP
TTM 38265
PREPARATION DATE: FEBRUARY 2022
PLANS PREPARED BY:

adkan ENGINEERS
Civil Engineering, Surveying Planning
6879 Airport Drive, Riverside, CA 92504
Tel:(951) 688-0241 · Fax:(951) 688-0599

PLOT DATE: 2/28/2022 4:38 PM

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Section 5

Basin Routing

NORTH

Storm Event	Existing		Proposed		Proposed		
	cfs	volume ac.ft.	cfs	volume ac.ft.	cfs	volume ac.ft.	Depth
2yr1hr	5.033	0.0976	7.961	0.2366	0.002	0.2360	2.50
2yr3hr	1.181	0.0674	3.845	0.3446	0.003	0.3440	3.20
2yr6hr	1.160	0.0941	3.884	0.5172	0.004	0.5160	3.76
2yr24hr	0.206	0.1249	1.275	0.7747	0.094	0.7080	4.60
5yr1hr	7.653	0.1539	11.247	0.3243	0.003	0.3240	3.13
5yr3hr	2.915	0.1269	5.705	0.4665	0.004	0.4660	3.60
5yr6hr	2.463	0.1452	5.285	0.6545	0.051	0.6510	4.31
5yr24hr	0.278	0.1688	1.723	1.0468	0.256	0.9050	5.52
10yr1hr	11.384	0.2895	14.451	0.4125	0.003	0.4120	3.42
10yr3hr	5.917	0.2687	7.867	0.5890	0.004	0.5880	4.00
10yr6hr	5.253	0.2922	7.143	0.7879	0.147	0.7790	4.95
10yr24hr	0.628	0.2135	2.062	1.2527	0.398	1.0550	6.18
100yr1hr	18.974	0.5742	22.938	0.6858	0.075	0.6840	4.47
100yr3hr	10.594	0.5965	12.850	0.9560	0.290	0.9420	5.69
100yr6hr	8.952	0.6027	11.078	1.1939	0.510	1.1580	6.60
100yr24hr	2.443	0.6082	3.611	1.9608	2.511	1.3700	7.42

Basin Size and Flow Calculations

NORTH 100YR24HR= 1.3526

10yr24hr= 1.0392

	BASIN PARAMETERS					OUTLET								
Basin Elevation	Depth	Area S.F.	Volume C.F.	Volume AC-FT	Effective Volume AC-FT	Q_1 Orrifice Plate (cfs)	Q_2 Orrifice Plate (cfs)	Q_3 Orrifice Plate (cfs)	Q_4 Orrifice Plate (cfs)	Q_5Orrifice Plate (cfs)	Q_6 Orrifice Plate (cfs)	Q_7Orrifice Plate (cfs)	Q Weir 1 (cfs)	Q Total (cfs)
1588.00	0.00	3,668.00	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1589.00	1.00	4,585.00	4,126.50	0.095	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1590.00	2.00	4,585.00	8,253.00	0.189	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1591.00	3.00	4,585.00	12,379.50	0.284	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1592.00	4.00	9,170.00	25,676.00	0.589	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1593.00	5.00	10,074.00	34,355.00	0.789	0.199	0.154	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.154
1594.00	6.00	11,015.00	44,049.00	1.011	0.422	0.268	0.082	0.000	0.000	0.000	0.000	0.000	0.000	0.350
1595.00	7.00	11,987.00	54,792.50	1.258	0.668	0.345	0.273	0.000	0.000	0.000	0.000	0.000	0.000	0.618
1595.40	7.40	12,390.00	59,414.60	1.364	0.775	0.372	0.318	0.000	0.000	0.000	0.000	0.000	0.000	0.690
1596.00	8.00	12,994.00	66,648.00	1.530	0.941	0.409	0.377	0.000	0.000	0.000	0.000	0.000	49.525	50.310

SUPPORTING DESIGN PARAMETERS

Orifice Coefficient	0.66		Dia of Orrifice	2.75	3.00							0.00
Gravimetric Constant	32.2	ft/s^2	Eff Dia of Orrifice	0.2292	0.2500	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Number of Rows	1		Area of Orrifice	0.0412	0.0491	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Minimum Orrifice Plate Height			Number of Orrifeces	1	1	1	1	1	1	1	1	
Minimum Orrifice Plate Width			Centroid Elev	1592.5	1593.9							0
					.		Weir		Sharp Crest Weir Coefficient			3.33
									Length of Weir			32.00
									Elev. at Crest of Weir			1595.4

Orifice Equation

$Q=Cd(1/4\pi D2)\sqrt{2gh}$

Weir Equation

(Q/(Weir Length* Weir Coefficent))^(2/3)

Q100 Elevation Weir Calc		
2 - 4' X 4' Box Inlet Weir Calc		
Crest Wier Elev.	1595.40	
Q100	17.08	cfs
Weir Length	32	
Weir Coeff.	3.33	
H Weir	0.295072749	
Q100 Elevation	**1595.70**	

Q100 Elevation Weir Calc		
Basin Emergency Spillway Weir Calc		
Crest Wier Elev.	1595.70	
Q100	17.08	cfs
Weir Length	32	
Weir Coeff.	3.33	
H Weir	0.295072749	
Q100 Elevation	**1596.00**	

```
                FLOOD HYDROGRAPH ROUTING PROGRAM
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                      Study date: 03/02/22

------------------------------------------------------------------------



Program License Serial Number 5006

------------------------------------------------------------------------
******************** HYDROGRAPH INFORMATION **********************

               From study/file name: pro212.rte
*****************************HYDROGRAPH DATA*****************************
               Number of intervals =    15
               Time interval =    5.0 (Min.)
               Maximum/Peak flow rate =        7.961 (CFS)
               Total volume =       0.237 (Ac.Ft)
       Status of hydrographs being held in storage
                    Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
       Peak (CFS)      0.000     0.000     0.000     0.000     0.000
       Vol (Ac.Ft)     0.000     0.000     0.000     0.000     0.000
************************************************************************



++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        1.000 to Point/Station        2.000
**** RETARDING BASIN ROUTING ****
____________________________________________________________________________

User entry of depth-outflow-storage data
------------------------------------------------------------------------
Total number of inflow hydrograph intervals = 15
Hydrograph time unit =  5.000 (Min.)
Initial depth in storage basin =   0.00(Ft.)
------------------------------------------------------------------------
------------------------------------------------------------------------
Initial basin depth =   0.00 (Ft.)
Initial basin storage =      0.00 (Ac.Ft)
Initial basin outflow =   0.00 (CFS)
------------------------------------------------------------------------
------------------------------------------------------------------------
Depth vs. Storage and Depth vs. Discharge data:
 Basin Depth  Storage    Outflow   (S-O*dt/2)   (S+O*dt/2)
     (Ft.)    (Ac.Ft)    (CFS)     (Ac.Ft)    (Ac.Ft)
------------------------------------------------------------------------
   0.000      0.000      0.000      0.000        0.000
   1.000      0.095      0.001      0.095        0.095
   2.000      0.189      0.002      0.189        0.189
   3.000      0.284      0.003      0.284        0.284
   4.000      0.589      0.004      0.589        0.589
   5.000      0.789      0.154      0.788        0.790
   6.000      1.011      0.350      1.010        1.012
   7.000      1.258      0.618      1.256        1.260
   7.400      1.364      0.690      1.362        1.366
   8.000      1.530     50.310      1.357        1.703
------------------------------------------------------------------------
               Hydrograph Detention Basin Routing
------------------------------------------------------------------------

Graph values: 'I'= unit inflow; 'O'=outflow at time shown
------------------------------------------------------------------------
 Time   Inflow  Outflow    Storage                                    Depth
(Hours) (CFS)   (CFS)     (Ac.Ft) .0       2.0    3.98    5.97    7.96 (Ft.)
 0.083    0.66    0.00      0.002  O I     |       |       |       |     0.02
 0.167    1.21    0.00      0.009  O   I   |       |       |       |     0.09
 0.250    1.42    0.00      0.018  O    I  |       |       |       |     0.19
 0.333    1.54    0.00      0.028  O     I |       |       |       |     0.29
 0.417    1.68    0.00      0.039  O     I |       |       |       |     0.41
 0.500    1.90    0.00      0.051  O      I|       |       |       |     0.54
 0.583    2.15    0.00      0.065  O       I       |       |       |     0.69
 0.667    2.47    0.00      0.081  O       |I      |       |       |     0.86
 0.750    3.23    0.00      0.101  O       |   I   |       |       |     1.06
 0.833    7.96    0.00      0.139  O       |       |       |      I|     1.47
 0.917    6.31    0.00      0.189  O       |       |       |I      |     2.00
 1.000    2.59    0.00      0.219  O       | I     |       |       |     2.32
 1.083    1.04    0.00      0.232  O   I   |       |       |       |     2.45
 1.167    0.16    0.00      0.236  O       |       |       |       |     2.49
 1.250    0.03    0.00      0.236  O       |       |       |       |     2.50
 1.333    0.00    0.00      0.236  O       |       |       |       |     2.50
```

```
Remaining water in basin =    0.24 (Ac.Ft)


**************************HYDROGRAPH DATA**************************
               Number of intervals =    16
               Time interval =    5.0 (Min.)
               Maximum/Peak flow rate =        0.002 (CFS)
               Total volume =       0.000 (Ac.Ft)
       Status of hydrographs being held in storage
                  Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
       Peak (CFS)      0.000     0.000     0.000     0.000     0.000
       Vol (Ac.Ft)      0.000     0.000     0.000     0.000     0.000
*******************************************************************

------------------------------------------------------------------
```

```
                    FLOOD HYDROGRAPH ROUTING PROGRAM
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                          Study date: 03/02/22

------------------------------------------------------------------------



Program License Serial Number 5006

------------------------------------------------------------------------
******************** HYDROGRAPH INFORMATION **********************

               From study/file name: pro232.rte
*****************************HYDROGRAPH DATA*****************************
               Number of intervals =    39
               Time interval =    5.0 (Min.)
               Maximum/Peak flow rate =        3.845 (CFS)
               Total volume =       0.345 (Ac.Ft)
       Status of hydrographs being held in storage
                    Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
       Peak (CFS)      0.000     0.000     0.000     0.000     0.000
       Vol (Ac.Ft)     0.000     0.000     0.000     0.000     0.000
************************************************************************



++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        1.000 to Point/Station        2.000
**** RETARDING BASIN ROUTING ****
________________________________________________________________________

User entry of depth-outflow-storage data
------------------------------------------------------------------------
Total number of inflow hydrograph intervals = 39
Hydrograph time unit =  5.000 (Min.)
Initial depth in storage basin =   0.00(Ft.)
------------------------------------------------------------------------
------------------------------------------------------------------------
Initial basin depth =   0.00 (Ft.)
Initial basin storage =      0.00 (Ac.Ft)
Initial basin outflow =   0.00 (CFS)
------------------------------------------------------------------------
------------------------------------------------------------------------
Depth vs. Storage and Depth vs. Discharge data:
 Basin Depth  Storage    Outflow   (S-O*dt/2)   (S+O*dt/2)
     (Ft.)    (Ac.Ft)    (CFS)     (Ac.Ft)    (Ac.Ft)
------------------------------------------------------------------------
   0.000      0.000      0.000      0.000        0.000
   1.000      0.095      0.001      0.095        0.095
   2.000      0.189      0.002      0.189        0.189
   3.000      0.284      0.003      0.284        0.284
   4.000      0.589      0.004      0.589        0.589
   5.000      0.789      0.154      0.788        0.790
   6.000      1.011      0.350      1.010        1.012
   7.000      1.258      0.618      1.256        1.260
   7.400      1.364      0.690      1.362        1.366
   8.000      1.530     50.310      1.357        1.703
------------------------------------------------------------------------
               Hydrograph Detention Basin Routing
------------------------------------------------------------------------

Graph values: 'I'= unit inflow; 'O'=outflow at time shown
------------------------------------------------------------------------
 Time   Inflow  Outflow    Storage                                    Depth
(Hours) (CFS)   (CFS)     (Ac.Ft) .0       1.0    1.92    2.88    3.85 (Ft.)
 0.083    0.33    0.00      0.001  O I     |       |       |       |     0.01
 0.167    0.59    0.00      0.004  O   I   |       |       |       |     0.05
 0.250    0.59    0.00      0.008  O   I   |       |       |       |     0.09
 0.333    0.66    0.00      0.013  O    I  |       |       |       |     0.13
 0.417    0.73    0.00      0.017  O     I |       |       |       |     0.18
 0.500    0.82    0.00      0.023  O     I |       |       |       |     0.24
 0.583    0.81    0.00      0.028  O     I |       |       |       |     0.30
 0.667    0.84    0.00      0.034  O     I |       |       |       |     0.36
 0.750    0.89    0.00      0.040  O      I|       |       |       |     0.42
 0.833    0.82    0.00      0.046  O     I |       |       |       |     0.48
 0.917    0.79    0.00      0.051  O     I |       |       |       |     0.54
 1.000    0.85    0.00      0.057  O      I|       |       |       |     0.60
 1.083    0.99    0.00      0.063  O       I       |       |       |     0.67
 1.167    1.08    0.00      0.071  O       I       |       |       |     0.74
 1.250    1.10    0.00      0.078  O       |I      |       |       |     0.82
 1.333    1.05    0.00      0.085  O       I       |       |       |     0.90
 1.417    1.16    0.00      0.093  O       |I      |       |       |     0.98
 1.500    1.30    0.00      0.101  O       | I     |       |       |     1.07
```

```
1.583    1.26    0.00      0.110  O       | I     |       |       |     1.16
1.667    1.29    0.00      0.119  O       | I     |       |       |     1.26
1.750    1.49    0.00      0.129  O       |   I   |       |       |     1.36
1.833    1.57    0.00      0.139  O       |    I  |       |       |     1.47
1.917    1.50    0.00      0.150  O       |   I   |       |       |     1.58
2.000    1.49    0.00      0.160  O       |   I   |       |       |     1.69
2.083    1.52    0.00      0.170  O       |   I   |       |       |     1.80
2.167    1.82    0.00      0.182  O       |      I|       |       |     1.92
2.250    2.25    0.00      0.196  O       |       | I     |       |     2.07
2.333    2.07    0.00      0.211  O       |       |I      |       |     2.23
2.417    2.65    0.00      0.227  O       |       |     I |       |     2.40
2.500    3.39    0.00      0.248  O       |       |       |   I   |     2.62
2.583    3.85    0.00      0.273  O       |       |       |      I|     2.88
2.667    3.49    0.00      0.298  O       |       |       |    I  |     3.05
2.750    2.06    0.00      0.317  O       |       |I      |       |     3.11
2.833    1.15    0.00      0.328  O       |I      |       |       |     3.14
2.917    0.95    0.00      0.335  O      I|       |       |       |     3.17
3.000    0.60    0.00      0.341  O   I   |       |       |       |     3.19
3.083    0.20    0.00      0.343  OI      |       |       |       |     3.19
3.167    0.04    0.00      0.344  O       |       |       |       |     3.20
3.250    0.01    0.00      0.344  O       |       |       |       |     3.20
3.333    0.00    0.00      0.344  O       |       |       |       |     3.20

Remaining water in basin =    0.34 (Ac.Ft)

****************************HYDROGRAPH DATA****************************
              Number of intervals =    40
              Time interval =    5.0 (Min.)
              Maximum/Peak flow rate =        0.003 (CFS)
              Total volume =       0.000 (Ac.Ft)
       Status of hydrographs being held in storage
                    Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
       Peak (CFS)      0.000     0.000     0.000     0.000     0.000
       Vol (Ac.Ft)      0.000     0.000     0.000     0.000     0.000
***********************************************************************

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                FLOOD HYDROGRAPH ROUTING PROGRAM
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                      Study date: 03/02/22

------------------------------------------------------------------------



Program License Serial Number 5006

------------------------------------------------------------------------
******************** HYDROGRAPH INFORMATION **********************

               From study/file name: pro262.rte
*****************************HYDROGRAPH DATA*****************************
               Number of intervals =    75
               Time interval =    5.0 (Min.)
               Maximum/Peak flow rate =        3.884 (CFS)
               Total volume =       0.517 (Ac.Ft)
       Status of hydrographs being held in storage
                  Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
       Peak (CFS)      0.000     0.000     0.000     0.000     0.000
       Vol (Ac.Ft)     0.000     0.000     0.000     0.000     0.000
************************************************************************



++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        1.000 to Point/Station        2.000
**** RETARDING BASIN ROUTING ****
____________________________________________________________________________

User entry of depth-outflow-storage data
------------------------------------------------------------------------
Total number of inflow hydrograph intervals = 75
Hydrograph time unit =  5.000 (Min.)
Initial depth in storage basin =   0.00(Ft.)
------------------------------------------------------------------------
------------------------------------------------------------------------
Initial basin depth =   0.00 (Ft.)
Initial basin storage =      0.00 (Ac.Ft)
Initial basin outflow =   0.00 (CFS)
------------------------------------------------------------------------
------------------------------------------------------------------------
Depth vs. Storage and Depth vs. Discharge data:
 Basin Depth  Storage    Outflow   (S-O*dt/2)   (S+O*dt/2)
     (Ft.)    (Ac.Ft)    (CFS)     (Ac.Ft)    (Ac.Ft)
------------------------------------------------------------------------
   0.000      0.000      0.000      0.000        0.000
   1.000      0.095      0.001      0.095        0.095
   2.000      0.189      0.002      0.189        0.189
   3.000      0.284      0.003      0.284        0.284
   4.000      0.589      0.004      0.589        0.589
   5.000      0.789      0.154      0.788        0.790
   6.000      1.011      0.350      1.010        1.012
   7.000      1.258      0.618      1.256        1.260
   7.400      1.364      0.690      1.362        1.366
   8.000      1.530     50.310      1.357        1.703
------------------------------------------------------------------------
               Hydrograph Detention Basin Routing
------------------------------------------------------------------------

Graph values: 'I'= unit inflow; 'O'=outflow at time shown
------------------------------------------------------------------------
 Time   Inflow  Outflow    Storage                                    Depth
(Hours) (CFS)   (CFS)     (Ac.Ft) .0       1.0    1.94    2.91    3.88 (Ft.)
 0.083    0.19    0.00      0.001  OI      |       |       |       |     0.01
 0.167    0.38    0.00      0.003  O  I    |       |       |       |     0.03
 0.250    0.44    0.00      0.005  O  I    |       |       |       |     0.06
 0.333    0.45    0.00      0.008  O  I    |       |       |       |     0.09
 0.417    0.45    0.00      0.012  O  I    |       |       |       |     0.12
 0.500    0.49    0.00      0.015  O   I   |       |       |       |     0.16
 0.583    0.52    0.00      0.018  O   I   |       |       |       |     0.19
 0.667    0.52    0.00      0.022  O   I   |       |       |       |     0.23
 0.750    0.52    0.00      0.025  O   I   |       |       |       |     0.27
 0.833    0.52    0.00      0.029  O   I   |       |       |       |     0.31
 0.917    0.52    0.00      0.033  O   I   |       |       |       |     0.34
 1.000    0.56    0.00      0.036  O   I   |       |       |       |     0.38
 1.083    0.59    0.00      0.040  O   I   |       |       |       |     0.43
 1.167    0.60    0.00      0.044  O   I   |       |       |       |     0.47
 1.250    0.60    0.00      0.049  O   I   |       |       |       |     0.51
 1.333    0.60    0.00      0.053  O   I   |       |       |       |     0.56
 1.417    0.60    0.00      0.057  O   I   |       |       |       |     0.60
 1.500    0.60    0.00      0.061  O   I   |       |       |       |     0.64
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1.583    0.60    0.00      0.065  O   I   |       |       |       |     0.69
1.667    0.60    0.00      0.069  O   I   |       |       |       |     0.73
1.750    0.60    0.00      0.073  O   I   |       |       |       |     0.77
1.833    0.60    0.00      0.077  O   I   |       |       |       |     0.82
1.917    0.60    0.00      0.082  O   I   |       |       |       |     0.86
2.000    0.64    0.00      0.086  O    I  |       |       |       |     0.90
2.083    0.63    0.00      0.090  O    I  |       |       |       |     0.95
2.167    0.64    0.00      0.095  O    I  |       |       |       |     1.00
2.250    0.67    0.00      0.099  O    I  |       |       |       |     1.04
2.333    0.67    0.00      0.104  O    I  |       |       |       |     1.09
2.417    0.67    0.00      0.108  O    I  |       |       |       |     1.14
2.500    0.67    0.00      0.113  O    I  |       |       |       |     1.19
2.583    0.67    0.00      0.118  O    I  |       |       |       |     1.24
2.667    0.67    0.00      0.122  O    I  |       |       |       |     1.29
2.750    0.71    0.00      0.127  O    I  |       |       |       |     1.34
2.833    0.74    0.00      0.132  O     I |       |       |       |     1.39
2.917    0.75    0.00      0.137  O     I |       |       |       |     1.45
3.000    0.75    0.00      0.142  O     I |       |       |       |     1.50
3.083    0.75    0.00      0.147  O     I |       |       |       |     1.56
3.167    0.79    0.00      0.153  O     I |       |       |       |     1.61
3.250    0.82    0.00      0.158  O     I |       |       |       |     1.67
3.333    0.82    0.00      0.164  O     I |       |       |       |     1.73
3.417    0.86    0.00      0.170  O      I|       |       |       |     1.79
3.500    0.93    0.00      0.176  O      I|       |       |       |     1.86
3.583    1.00    0.00      0.183  O       I       |       |       |     1.93
3.667    1.04    0.00      0.190  O       I       |       |       |     2.01
3.750    1.09    0.00      0.197  O       I       |       |       |     2.08
3.833    1.12    0.00      0.204  O       |I      |       |       |     2.16
3.917    1.16    0.00      0.212  O       |I      |       |       |     2.25
4.000    1.19    0.00      0.220  O       |I      |       |       |     2.33
4.083    1.24    0.00      0.229  O        I      |       |       |     2.42
4.167    1.31    0.00      0.237  O        I      |       |       |     2.51
4.250    1.38    0.00      0.247  O        |  I   |       |       |     2.61
4.333    1.45    0.00      0.256  O        |  I   |       |       |     2.71
4.417    1.53    0.00      0.267  O        |   I  |       |       |     2.82
4.500    1.57    0.00      0.277  O        |   I  |       |       |     2.93
4.583    1.61    0.00      0.288  O        |    I |       |       |     3.01
4.667    1.68    0.00      0.300  O        |    I |       |       |     3.05
4.750    1.75    0.00      0.311  O        |     I|       |       |     3.09
4.833    1.79    0.00      0.324  O        |     I|       |       |     3.13
4.917    1.84    0.00      0.336  O        |      I       |       |     3.17
5.000    1.91    0.00      0.349  O        |      I       |       |     3.21
5.083    2.13    0.00      0.363  O        |       I      |       |     3.26
5.167    2.48    0.00      0.379  O        |         I    |       |     3.31
5.250    2.77    0.00      0.397  O        |          I   |       |     3.37
5.333    3.01    0.00      0.417  O        |           I  |       |     3.43
5.417    3.31    0.00      0.438  O        |           |  I    |     3.51
5.500    3.88    0.00      0.463  O        |           |      I|     3.59
5.583    2.77    0.00      0.486  O        |           |    I  |     3.66
5.667    1.29    0.00      0.500  O        |  I        |       |     3.71
5.750    0.69    0.00      0.507  O    I   |           |       |     3.73
5.833    0.45    0.00      0.511  O  I     |           |       |     3.74
5.917    0.31    0.00      0.513  O I      |           |       |     3.75
6.000    0.20    0.00      0.515  OI       |           |       |     3.76
6.083    0.08    0.00      0.516  O        |           |       |     3.76
6.167    0.02    0.00      0.516  O        |           |       |     3.76
6.250    0.00    0.00      0.516  O        |           |       |     3.76
6.333    0.00    0.00      0.516  O        |           |       |     3.76

      Remaining water in basin =    0.52 (Ac.Ft)

      ****************************HYDROGRAPH DATA****************************
                    Number of intervals =    76
                    Time interval =    5.0 (Min.)
                    Maximum/Peak flow rate =        0.004 (CFS)
                    Total volume =       0.001 (Ac.Ft)
             Status of hydrographs being held in storage
                      Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
             Peak (CFS)      0.000     0.000     0.000     0.000     0.000
             Vol (Ac.Ft)      0.000     0.000     0.000     0.000     0.000
      ***********************************************************************

      ---------------------------------------------------------------------
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                FLOOD HYDROGRAPH ROUTING PROGRAM
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                      Study date: 03/02/22

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------------------------------------------------------------------------
******************** HYDROGRAPH INFORMATION **********************

               From study/file name: PRO2242.rte
*****************************HYDROGRAPH DATA*****************************
               Number of intervals =   291
               Time interval =    5.0 (Min.)
               Maximum/Peak flow rate =        1.275 (CFS)
               Total volume =       0.775 (Ac.Ft)
       Status of hydrographs being held in storage
                    Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
       Peak (CFS)      0.000     0.000     0.000     0.000     0.000
       Vol (Ac.Ft)     0.000     0.000     0.000     0.000     0.000
************************************************************************

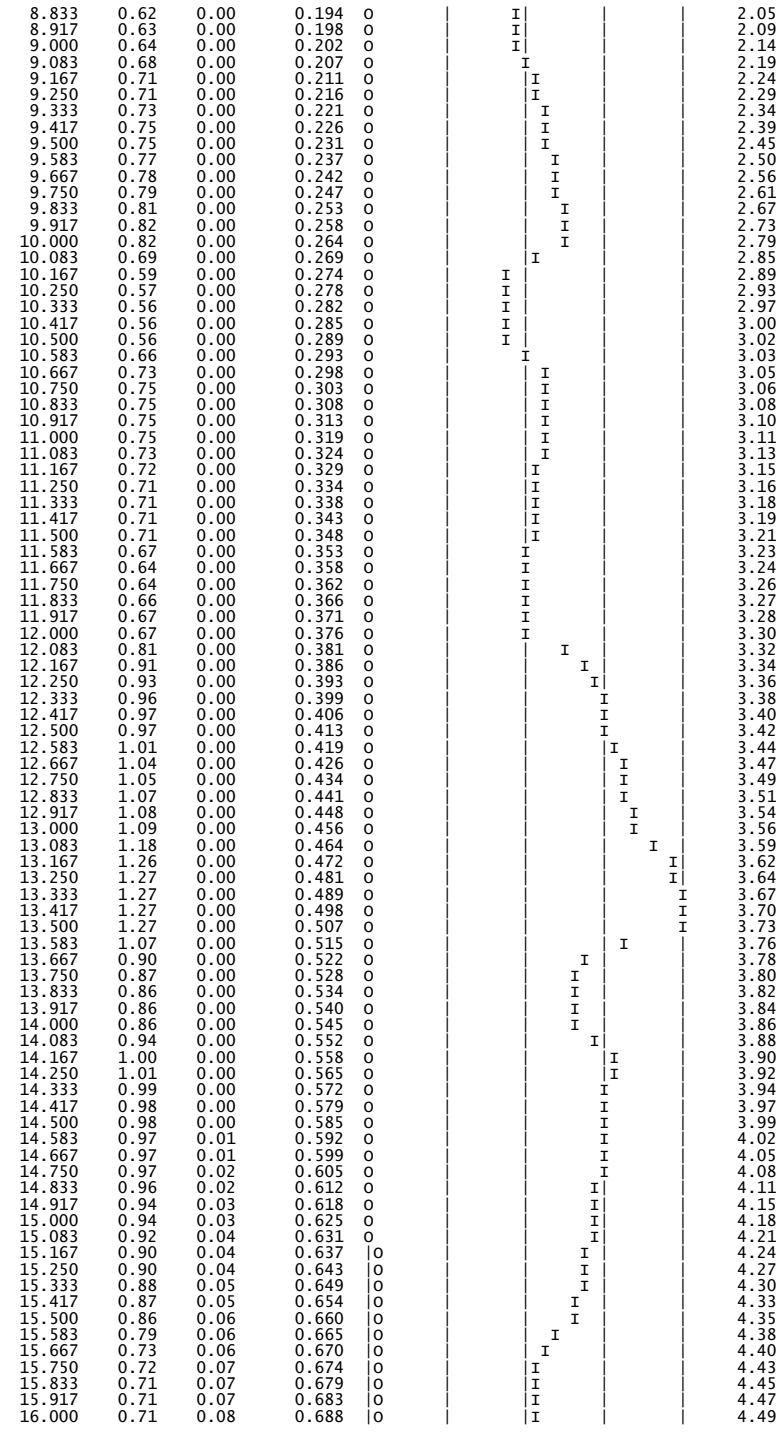


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        1.000 to Point/Station        2.000
**** RETARDING BASIN ROUTING ****
____________________________________________________________________________

User entry of depth-outflow-storage data
------------------------------------------------------------------------
Total number of inflow hydrograph intervals = 291
Hydrograph time unit =  5.000 (Min.)
Initial depth in storage basin =   0.00(Ft.)
------------------------------------------------------------------------
------------------------------------------------------------------------
Initial basin depth =   0.00 (Ft.)
Initial basin storage =      0.00 (Ac.Ft)
Initial basin outflow =   0.00 (CFS)
------------------------------------------------------------------------
------------------------------------------------------------------------
Depth vs. Storage and Depth vs. Discharge data:
 Basin Depth  Storage    Outflow   (S-O*dt/2)   (S+O*dt/2)
     (Ft.)    (Ac.Ft)    (CFS)     (Ac.Ft)    (Ac.Ft)
------------------------------------------------------------------------
   0.000      0.000      0.000      0.000        0.000
   1.000      0.095      0.001      0.095        0.095
   2.000      0.189      0.002      0.189        0.189
   3.000      0.284      0.003      0.284        0.284
   4.000      0.589      0.004      0.589        0.589
   5.000      0.789      0.154      0.788        0.790
   6.000      1.011      0.350      1.010        1.012
   7.000      1.258      0.618      1.256        1.260
   7.400      1.364      0.690      1.362        1.366
   8.000      1.530     50.310      1.357        1.703
------------------------------------------------------------------------
               Hydrograph Detention Basin Routing
------------------------------------------------------------------------

Graph values: 'I'= unit inflow; 'O'=outflow at time shown
------------------------------------------------------------------------
 Time   Inflow  Outflow    Storage                                    Depth
(Hours) (CFS)   (CFS)     (Ac.Ft) .0       0.3    0.64    0.96    1.27 (Ft.)
 0.083    0.04    0.00      0.000  O       |       |       |       |     0.00
 0.167    0.07    0.00      0.000  OI      |       |       |       |     0.01
 0.250    0.07    0.00      0.001  OI      |       |       |       |     0.01
 0.333    0.09    0.00      0.002  O I     |       |       |       |     0.02
 0.417    0.11    0.00      0.002  O I     |       |       |       |     0.02
 0.500    0.11    0.00      0.003  O I     |       |       |       |     0.03
 0.583    0.11    0.00      0.004  O I     |       |       |       |     0.04
 0.667    0.11    0.00      0.005  O I     |       |       |       |     0.05
 0.750    0.11    0.00      0.005  O I     |       |       |       |     0.06
 0.833    0.13    0.00      0.006  O  I    |       |       |       |     0.07
 0.917    0.15    0.00      0.007  O  I    |       |       |       |     0.08
 1.000    0.15    0.00      0.008  O  I    |       |       |       |     0.09
 1.083    0.13    0.00      0.009  O  I    |       |       |       |     0.10
 1.167    0.12    0.00      0.010  O I     |       |       |       |     0.10
 1.250    0.11    0.00      0.011  O I     |       |       |       |     0.11
 1.333    0.11    0.00      0.012  O I     |       |       |       |     0.12
 1.417    0.11    0.00      0.012  O I     |       |       |       |     0.13
 1.500    0.11    0.00      0.013  O I     |       |       |       |     0.14
```

1.583	0.11	0.00	0.014	o I	|	|	|	|	0.15
1.667	0.11	0.00	0.015	o I	|	|	|	|	0.15
1.750	0.11	0.00	0.015	o I	|	|	|	|	0.16
1.833	0.13	0.00	0.016	o I	|	|	|	|	0.17
1.917	0.15	0.00	0.017	o I	|	|	|	|	0.18
2.000	0.15	0.00	0.018	o I	|	|	|	|	0.19
2.083	0.15	0.00	0.019	o I	|	|	|	|	0.20
2.167	0.15	0.00	0.020	o I	|	|	|	|	0.21
2.250	0.15	0.00	0.021	o I	|	|	|	|	0.22
2.333	0.15	0.00	0.022	o I	|	|	|	|	0.24
2.417	0.15	0.00	0.023	o I	|	|	|	|	0.25
2.500	0.15	0.00	0.024	o I	|	|	|	|	0.26
2.583	0.17	0.00	0.025	o I	|	|	|	|	0.27
2.667	0.18	0.00	0.027	o I	|	|	|	|	0.28
2.750	0.19	0.00	0.028	o I	|	|	|	|	0.29
2.833	0.19	0.00	0.029	o I	|	|	|	|	0.31
2.917	0.19	0.00	0.031	o I	|	|	|	|	0.32
3.000	0.19	0.00	0.032	o I	|	|	|	|	0.34
3.083	0.19	0.00	0.033	o I	|	|	|	|	0.35
3.167	0.19	0.00	0.034	o I	|	|	|	|	0.36
3.250	0.19	0.00	0.036	o I	|	|	|	|	0.38
3.333	0.19	0.00	0.037	o I	|	|	|	|	0.39
3.417	0.19	0.00	0.038	o I	|	|	|	|	0.40
3.500	0.19	0.00	0.040	o I	|	|	|	|	0.42
3.583	0.19	0.00	0.041	o I	|	|	|	|	0.43
3.667	0.19	0.00	0.042	o I	|	|	|	|	0.44
3.750	0.19	0.00	0.043	o I	|	|	|	|	0.46
3.833	0.21	0.00	0.045	o I	|	|	|	|	0.47
3.917	0.22	0.00	0.046	o I	|	|	|	|	0.49
4.000	0.22	0.00	0.048	o I	|	|	|	|	0.50
4.083	0.22	0.00	0.049	o I	|	|	|	|	0.52
4.167	0.22	0.00	0.051	o I	|	|	|	|	0.54
4.250	0.22	0.00	0.052	o I	|	|	|	|	0.55
4.333	0.24	0.00	0.054	o I	|	|	|	|	0.57
4.417	0.26	0.00	0.056	o I	|	|	|	|	0.59
4.500	0.26	0.00	0.058	o I	|	|	|	|	0.61
4.583	0.26	0.00	0.059	o I	|	|	|	|	0.62
4.667	0.26	0.00	0.061	o I	|	|	|	|	0.64
4.750	0.26	0.00	0.063	o I	|	|	|	|	0.66
4.833	0.28	0.00	0.065	o I	|	|	|	|	0.68
4.917	0.30	0.00	0.067	o I	|	|	|	|	0.70
5.000	0.30	0.00	0.069	o I	|	|	|	|	0.72
5.083	0.26	0.00	0.071	o I	|	|	|	|	0.75
5.167	0.23	0.00	0.072	o I	|	|	|	|	0.76
5.250	0.23	0.00	0.074	o I	|	|	|	|	0.78
5.333	0.24	0.00	0.076	o I	|	|	|	|	0.80
5.417	0.26	0.00	0.077	o I	|	|	|	|	0.81
5.500	0.26	0.00	0.079	o I	|	|	|	|	0.83
5.583	0.28	0.00	0.081	o I	|	|	|	|	0.85
5.667	0.30	0.00	0.083	o I	|	|	|	|	0.87
5.750	0.30	0.00	0.085	o I	|	|	|	|	0.90
5.833	0.30	0.00	0.087	o I	|	|	|	|	0.92
5.917	0.30	0.00	0.089	o I	|	|	|	|	0.94
6.000	0.30	0.00	0.091	o I	|	|	|	|	0.96
6.083	0.32	0.00	0.093	o I	|	|	|	|	0.98
6.167	0.33	0.00	0.096	o I	|	|	|	|	1.01
6.250	0.34	0.00	0.098	o I	|	|	|	|	1.03
6.333	0.34	0.00	0.100	o I	|	|	|	|	1.06
6.417	0.34	0.00	0.103	o I	|	|	|	|	1.08
6.500	0.34	0.00	0.105	o I	|	|	|	|	1.11
6.583	0.36	0.00	0.107	o I	|	|	|	|	1.13
6.667	0.37	0.00	0.110	o I	|	|	|	|	1.16
6.750	0.37	0.00	0.112	o I	|	|	|	|	1.18
6.833	0.37	0.00	0.115	o I	|	|	|	|	1.21
6.917	0.37	0.00	0.117	o I	|	|	|	|	1.24
7.000	0.37	0.00	0.120	o I	|	|	|	|	1.27
7.083	0.37	0.00	0.123	o I	|	|	|	|	1.29
7.167	0.37	0.00	0.125	o I	|	|	|	|	1.32
7.250	0.37	0.00	0.128	o I	|	|	|	|	1.35
7.333	0.39	0.00	0.130	o I	|	|	|	|	1.38
7.417	0.41	0.00	0.133	o I	|	|	|	|	1.41
7.500	0.41	0.00	0.136	o I	|	|	|	|	1.44
7.583	0.43	0.00	0.139	o I	|	|	|	|	1.47
7.667	0.45	0.00	0.142	o I	|	|	|	|	1.50
7.750	0.45	0.00	0.145	o I	|	|	|	|	1.53
7.833	0.47	0.00	0.148	o I	|	|	|	|	1.56
7.917	0.48	0.00	0.151	o I	|	|	|	|	1.60
8.000	0.49	0.00	0.155	o I	|	|	|	|	1.64
8.083	0.53	0.00	0.158	o I	|	|	|	|	1.67
8.167	0.56	0.00	0.162	o I	|	|	|	|	1.71
8.250	0.56	0.00	0.166	o I	|	|	|	|	1.75
8.333	0.56	0.00	0.170	o I	|	|	|	|	1.79
8.417	0.56	0.00	0.173	o I	|	|	|	|	1.83
8.500	0.56	0.00	0.177	o I	|	|	|	|	1.88
8.583	0.58	0.00	0.181	o I	|	|	|	|	1.92
8.667	0.60	0.00	0.185	o I	|	|	|	|	1.96
8.750	0.60	0.00	0.189	o I	|	|	|	|	2.00



8.833	0.62	0.00	0.194	o				2.05
8.917	0.63	0.00	0.198	o				2.09
9.000	0.64	0.00	0.202	o				2.14
9.083	0.68	0.00	0.207	o				2.19
9.167	0.71	0.00	0.211	o				2.24
9.250	0.71	0.00	0.216	o				2.29
9.333	0.73	0.00	0.221	o				2.34
9.417	0.75	0.00	0.226	o				2.39
9.500	0.75	0.00	0.231	o				2.45
9.583	0.77	0.00	0.237	o				2.50
9.667	0.78	0.00	0.242	o				2.56
9.750	0.79	0.00	0.247	o				2.61
9.833	0.81	0.00	0.253	o				2.67
9.917	0.82	0.00	0.258	o				2.73
10.000	0.82	0.00	0.264	o				2.79
10.083	0.69	0.00	0.269	o				2.85
10.167	0.59	0.00	0.274	o				2.89
10.250	0.57	0.00	0.278	o				2.93
10.333	0.56	0.00	0.282	o				2.97
10.417	0.56	0.00	0.285	o				3.00
10.500	0.56	0.00	0.289	o				3.02
10.583	0.66	0.00	0.293	o				3.03
10.667	0.73	0.00	0.298	o				3.05
10.750	0.75	0.00	0.303	o				3.06
10.833	0.75	0.00	0.308	o				3.08
10.917	0.75	0.00	0.313	o				3.10
11.000	0.75	0.00	0.319	o				3.11
11.083	0.73	0.00	0.324	o				3.13
11.167	0.72	0.00	0.329	o				3.15
11.250	0.71	0.00	0.334	o				3.16
11.333	0.71	0.00	0.338	o				3.18
11.417	0.71	0.00	0.343	o				3.19
11.500	0.71	0.00	0.348	o				3.21
11.583	0.67	0.00	0.353	o				3.23
11.667	0.64	0.00	0.358	o				3.24
11.750	0.64	0.00	0.362	o				3.26
11.833	0.66	0.00	0.366	o				3.27
11.917	0.67	0.00	0.371	o				3.28
12.000	0.67	0.00	0.376	o				3.30
12.083	0.81	0.00	0.381	o				3.32
12.167	0.91	0.00	0.386	o				3.34
12.250	0.93	0.00	0.393	o				3.36
12.333	0.96	0.00	0.399	o				3.38
12.417	0.97	0.00	0.406	o				3.40
12.500	0.97	0.00	0.413	o				3.42
12.583	1.01	0.00	0.419	o				3.44
12.667	1.04	0.00	0.426	o				3.47
12.750	1.05	0.00	0.434	o				3.49
12.833	1.07	0.00	0.441	o				3.51
12.917	1.08	0.00	0.448	o				3.54
13.000	1.09	0.00	0.456	o				3.56
13.083	1.18	0.00	0.464	o				3.59
13.167	1.26	0.00	0.472	o				3.62
13.250	1.27	0.00	0.481	o				3.64
13.333	1.27	0.00	0.489	o				3.67
13.417	1.27	0.00	0.498	o				3.70
13.500	1.27	0.00	0.507	o				3.73
13.583	1.07	0.00	0.515	o				3.76
13.667	0.90	0.00	0.522	o				3.78
13.750	0.87	0.00	0.528	o				3.80
13.833	0.86	0.00	0.534	o				3.82
13.917	0.86	0.00	0.540	o				3.84
14.000	0.86	0.00	0.545	o				3.86
14.083	0.94	0.00	0.552	o				3.88
14.167	1.00	0.00	0.558	o				3.90
14.250	1.01	0.00	0.565	o				3.92
14.333	0.99	0.00	0.572	o				3.94
14.417	0.98	0.00	0.579	o				3.97
14.500	0.98	0.00	0.585	o				3.99
14.583	0.97	0.01	0.592	o				4.02
14.667	0.97	0.01	0.599	o				4.05
14.750	0.97	0.02	0.605	o				4.08
14.833	0.96	0.02	0.612	o				4.11
14.917	0.94	0.03	0.618	o				4.15
15.000	0.94	0.03	0.625	o				4.18
15.083	0.92	0.04	0.631	o				4.21
15.167	0.90	0.04	0.637	o				4.24
15.250	0.90	0.04	0.643	o				4.27
15.333	0.88	0.05	0.649	o				4.30
15.417	0.87	0.05	0.654	o				4.33
15.500	0.86	0.06	0.660	o				4.35
15.583	0.79	0.06	0.665	o				4.38
15.667	0.73	0.06	0.670	o				4.40
15.750	0.72	0.07	0.674	o				4.43
15.833	0.71	0.07	0.679	o				4.45
15.917	0.71	0.07	0.683	o				4.47
16.000	0.71	0.08	0.688	o				4.49

16.083	0.43	0.08	0.691	O	I			4.51
16.167	0.20	0.08	0.693	O I				4.52
16.250	0.16	0.08	0.693	O I				4.52
16.333	0.15	0.08	0.694	OI				4.52
16.417	0.15	0.08	0.694	OI				4.53
16.500	0.15	0.08	0.695	OI				4.53
16.583	0.13	0.08	0.695	OI				4.53
16.667	0.12	0.08	0.695	O				4.53
16.750	0.11	0.08	0.696	O				4.53
16.833	0.11	0.08	0.696	O				4.53
16.917	0.11	0.08	0.696	O				4.53
17.000	0.11	0.08	0.696	O				4.54
17.083	0.15	0.08	0.696	OI				4.54
17.167	0.18	0.09	0.697	O I				4.54
17.250	0.19	0.09	0.698	O I				4.54
17.333	0.19	0.09	0.698	O I				4.55
17.417	0.19	0.09	0.699	O I				4.55
17.500	0.19	0.09	0.700	O I				4.55
17.583	0.19	0.09	0.700	O I				4.56
17.667	0.19	0.09	0.701	O I				4.56
17.750	0.19	0.09	0.702	O I				4.56
17.833	0.17	0.09	0.702	O I				4.57
17.917	0.15	0.09	0.703	OI				4.57
18.000	0.15	0.09	0.703	OI				4.57
18.083	0.15	0.09	0.704	OI				4.57
18.167	0.15	0.09	0.704	OI				4.58
18.250	0.15	0.09	0.705	OI				4.58
18.333	0.15	0.09	0.705	OI				4.58
18.417	0.15	0.09	0.705	OI				4.58
18.500	0.15	0.09	0.706	OI				4.58
18.583	0.13	0.09	0.706	OI				4.59
18.667	0.12	0.09	0.706	O				4.59
18.750	0.11	0.09	0.707	O				4.59
18.833	0.09	0.09	0.707	O				4.59
18.917	0.08	0.09	0.707	IO				4.59
19.000	0.08	0.09	0.706	IO				4.59
19.083	0.09	0.09	0.706	O				4.59
19.167	0.11	0.09	0.706	O				4.59
19.250	0.11	0.09	0.707	O				4.59
19.333	0.13	0.09	0.707	OI				4.59
19.417	0.15	0.09	0.707	OI				4.59
19.500	0.15	0.09	0.707	OI				4.59
19.583	0.13	0.09	0.708	OI				4.59
19.667	0.12	0.09	0.708	O				4.60
19.750	0.11	0.09	0.708	O				4.60
19.833	0.09	0.09	0.708	O				4.60
19.917	0.08	0.09	0.708	IO				4.60
20.000	0.08	0.09	0.708	IO				4.60
20.083	0.09	0.09	0.708	O				4.60
20.167	0.11	0.09	0.708	O				4.60
20.250	0.11	0.09	0.708	O				4.60
20.333	0.11	0.09	0.708	O				4.60
20.417	0.11	0.09	0.708	O				4.60
20.500	0.11	0.09	0.709	O				4.60
20.583	0.11	0.09	0.709	O				4.60
20.667	0.11	0.09	0.709	O				4.60
20.750	0.11	0.09	0.709	O				4.60
20.833	0.09	0.09	0.709	O				4.60
20.917	0.08	0.09	0.709	IO				4.60
21.000	0.08	0.09	0.709	IO				4.60
21.083	0.09	0.09	0.709	O				4.60
21.167	0.11	0.09	0.709	O				4.60
21.250	0.11	0.09	0.709	O				4.60
21.333	0.09	0.09	0.709	O				4.60
21.417	0.08	0.09	0.709	IO				4.60
21.500	0.08	0.09	0.709	IO				4.60
21.583	0.09	0.09	0.709	O				4.60
21.667	0.11	0.09	0.709	O				4.60
21.750	0.11	0.09	0.709	O				4.60
21.833	0.09	0.09	0.709	O				4.60
21.917	0.08	0.09	0.709	IO				4.60
22.000	0.08	0.09	0.709	IO				4.60
22.083	0.09	0.09	0.709	O				4.60
22.167	0.11	0.09	0.709	O				4.60
22.250	0.11	0.09	0.709	O				4.60
22.333	0.09	0.09	0.709	O				4.60
22.417	0.08	0.09	0.709	IO				4.60
22.500	0.08	0.09	0.709	IO				4.60
22.583	0.07	0.09	0.709	IO				4.60
22.667	0.07	0.09	0.709	IO				4.60
22.750	0.07	0.09	0.708	IO				4.60
22.833	0.07	0.09	0.708	IO				4.60
22.917	0.07	0.09	0.708	IO				4.60
23.000	0.07	0.09	0.708	IO				4.60
23.083	0.07	0.09	0.708	IO				4.59
23.167	0.07	0.09	0.708	IO				4.59
23.250	0.07	0.09	0.708	IO				4.59

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23.333    0.07    0.09      0.708  |IO     |       |       |       |     4.59
23.417    0.07    0.09      0.707  |IO     |       |       |       |     4.59
23.500    0.07    0.09      0.707  |IO     |       |       |       |     4.59
23.583    0.07    0.09      0.707  |IO     |       |       |       |     4.59
23.667    0.07    0.09      0.707  |IO     |       |       |       |     4.59
23.750    0.07    0.09      0.707  |IO     |       |       |       |     4.59
23.833    0.07    0.09      0.707  |IO     |       |       |       |     4.59
23.917    0.07    0.09      0.707  |IO     |       |       |       |     4.59
24.000    0.07    0.09      0.707  |IO     |       |       |       |     4.59
24.083    0.04    0.09      0.706  I O     |       |       |       |     4.59
24.167    0.01    0.09      0.706  I O     |       |       |       |     4.58
24.250    0.00    0.09      0.705  I O     |       |       |       |     4.58
24.333    0.00    0.09      0.705  I O     |       |       |       |     4.58

       Remaining water in basin =    0.70 (Ac.Ft)

       ****************************HYDROGRAPH DATA****************************
                    Number of intervals =   292
                    Time interval =     5.0 (Min.)
                    Maximum/Peak flow rate =       0.094 (CFS)
                    Total volume =       0.070 (Ac.Ft)
              Status of hydrographs being held in storage
                         Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
              Peak (CFS)      0.000     0.000     0.000     0.000     0.000
              Vol (Ac.Ft)      0.000     0.000     0.000     0.000     0.000
       ***********************************************************************

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                            Study date: 03/02/22

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Program License Serial Number 5006

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******************** HYDROGRAPH INFORMATION **********************

                From study/file name: pro515.rte
*****************************HYDROGRAPH DATA*****************************
                Number of intervals =    15
                Time interval =    5.0 (Min.)
                Maximum/Peak flow rate =       11.247 (CFS)
                Total volume =       0.324 (Ac.Ft)
        Status of hydrographs being held in storage
                     Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
        Peak (CFS)       0.000     0.000     0.000     0.000     0.000
        Vol (Ac.Ft)      0.000     0.000     0.000     0.000     0.000
************************************************************************



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Process from Point/Station        1.000 to Point/Station        2.000
**** RETARDING BASIN ROUTING ****
____________________________________________________________________________

User entry of depth-outflow-storage data
------------------------------------------------------------------------
Total number of inflow hydrograph intervals = 15
Hydrograph time unit =  5.000 (Min.)
Initial depth in storage basin =   0.00(Ft.)
------------------------------------------------------------------------
------------------------------------------------------------------------
Initial basin depth =   0.00 (Ft.)
Initial basin storage =      0.00 (Ac.Ft)
Initial basin outflow =   0.00 (CFS)
------------------------------------------------------------------------
------------------------------------------------------------------------
Depth vs. Storage and Depth vs. Discharge data:
 Basin Depth  Storage    Outflow   (S-O*dt/2)   (S+O*dt/2)
     (Ft.)    (Ac.Ft)    (CFS)     (Ac.Ft)    (Ac.Ft)
------------------------------------------------------------------------
   0.000      0.000      0.000      0.000        0.000
   1.000      0.095      0.001      0.095        0.095
   2.000      0.189      0.002      0.189        0.189
   3.000      0.284      0.003      0.284        0.284
   4.000      0.589      0.004      0.589        0.589
   5.000      0.789      0.154      0.788        0.790
   6.000      1.011      0.350      1.010        1.012
   7.000      1.258      0.618      1.256        1.260
   7.400      1.364      0.690      1.362        1.366
   8.000      1.530     50.310      1.357        1.703
------------------------------------------------------------------------
                Hydrograph Detention Basin Routing
------------------------------------------------------------------------

Graph values: 'I'= unit inflow; 'O'=outflow at time shown
------------------------------------------------------------------------
 Time   Inflow  Outflow    Storage                                    Depth
(Hours) (CFS)   (CFS)     (Ac.Ft) .0       2.8    5.62    8.44   11.25 (Ft.)
 0.083    0.88    0.00      0.003  O I     |       |       |       |     0.03
 0.167    1.60    0.00      0.012  O   I   |       |       |       |     0.12
 0.250    1.89    0.00      0.024  O    I  |       |       |       |     0.25
 0.333    2.05    0.00      0.037  O    I  |       |       |       |     0.39
 0.417    2.24    0.00      0.052  O     I |       |       |       |     0.55
 0.500    2.52    0.00      0.068  O      I|       |       |       |     0.72
 0.583    2.85    0.00      0.087  O       I       |       |       |     0.91
 0.667    3.28    0.00      0.108  O       |I      |       |       |     1.14
 0.750    4.63    0.00      0.135  O       |    I  |       |       |     1.43
 0.833   11.25    0.00      0.190  O       |       |       |       I     2.01
 0.917    8.75    0.00      0.259  O       |       |       I       |     2.73
 1.000    3.51    0.00      0.301  O       |I      |       |       |     3.06
 1.083    1.39    0.00      0.318  O  I    |       |       |       |     3.11
 1.167    0.21    0.00      0.323  O       |       |       |       |     3.13
 1.250    0.04    0.00      0.324  O       |       |       |       |     3.13
 1.333    0.00    0.00      0.324  O       |       |       |       |     3.13
```

```
Remaining water in basin =    0.32 (Ac.Ft)


**************************HYDROGRAPH DATA**************************
               Number of intervals =    16
               Time interval =    5.0 (Min.)
               Maximum/Peak flow rate =        0.003 (CFS)
               Total volume =       0.000 (Ac.Ft)
       Status of hydrographs being held in storage
                  Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
       Peak (CFS)      0.000     0.000     0.000     0.000     0.000
       Vol (Ac.Ft)      0.000     0.000     0.000     0.000     0.000
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                      Study date: 03/02/22

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******************** HYDROGRAPH INFORMATION **********************

               From study/file name: pro535.rte
*****************************HYDROGRAPH DATA*****************************
               Number of intervals =    39
               Time interval =    5.0 (Min.)
               Maximum/Peak flow rate =        5.705 (CFS)
               Total volume =       0.467 (Ac.Ft)
       Status of hydrographs being held in storage
                    Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
       Peak (CFS)      0.000     0.000     0.000     0.000     0.000
       Vol (Ac.Ft)     0.000     0.000     0.000     0.000     0.000
************************************************************************



++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        1.000 to Point/Station        2.000
**** RETARDING BASIN ROUTING ****
____________________________________________________________________________

User entry of depth-outflow-storage data
------------------------------------------------------------------------
Total number of inflow hydrograph intervals = 39
Hydrograph time unit =  5.000 (Min.)
Initial depth in storage basin =   0.00(Ft.)
------------------------------------------------------------------------
------------------------------------------------------------------------
Initial basin depth =   0.00 (Ft.)
Initial basin storage =      0.00 (Ac.Ft)
Initial basin outflow =   0.00 (CFS)
------------------------------------------------------------------------
------------------------------------------------------------------------
Depth vs. Storage and Depth vs. Discharge data:
 Basin Depth  Storage    Outflow   (S-O*dt/2)   (S+O*dt/2)
     (Ft.)    (Ac.Ft)    (CFS)     (Ac.Ft)    (Ac.Ft)
------------------------------------------------------------------------
   0.000      0.000      0.000      0.000        0.000
   1.000      0.095      0.001      0.095        0.095
   2.000      0.189      0.002      0.189        0.189
   3.000      0.284      0.003      0.284        0.284
   4.000      0.589      0.004      0.589        0.589
   5.000      0.789      0.154      0.788        0.790
   6.000      1.011      0.350      1.010        1.012
   7.000      1.258      0.618      1.256        1.260
   7.400      1.364      0.690      1.362        1.366
   8.000      1.530     50.310      1.357        1.703
------------------------------------------------------------------------
               Hydrograph Detention Basin Routing
------------------------------------------------------------------------

Graph values: 'I'= unit inflow; 'O'=outflow at time shown
------------------------------------------------------------------------
  Time   Inflow  Outflow    Storage                                    Depth
 (Hours)  (CFS)   (CFS)     (Ac.Ft) .0       1.4    2.85    4.28    5.71 (Ft.)
  0.083    0.43    0.00      0.001  O I      |       |       |       |     0.02
  0.167    0.78    0.00      0.006  O   I    |       |       |       |     0.06
  0.250    0.77    0.00      0.011  O   I    |       |       |       |     0.12
  0.333    0.87    0.00      0.017  O   I    |       |       |       |     0.18
  0.417    0.97    0.00      0.023  O    I   |       |       |       |     0.24
  0.500    1.09    0.00      0.030  O     I  |       |       |       |     0.32
  0.583    1.07    0.00      0.038  O     I  |       |       |       |     0.40
  0.667    1.11    0.00      0.045  O     I  |       |       |       |     0.47
  0.750    1.18    0.00      0.053  O     I  |       |       |       |     0.56
  0.833    1.09    0.00      0.061  O     I  |       |       |       |     0.64
  0.917    1.04    0.00      0.068  O    I   |       |       |       |     0.72
  1.000    1.12    0.00      0.075  O     I  |       |       |       |     0.79
  1.083    1.31    0.00      0.084  O      I|       |       |       |     0.88
  1.167    1.43    0.00      0.093  O       I       |       |       |     0.98
  1.250    1.45    0.00      0.103  O       I       |       |       |     1.09
  1.333    1.39    0.00      0.113  O      I|       |       |       |     1.19
  1.417    1.53    0.00      0.123  O       I       |       |       |     1.30
  1.500    1.72    0.00      0.134  O       |I      |       |       |     1.42
```

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1.583    1.67    0.00      0.146  O       |I      |       |       |     1.54
1.667    1.70    0.00      0.157  O       |I      |       |       |     1.66
1.750    1.97    0.00      0.170  O       |  I    |       |       |     1.80
1.833    2.07    0.00      0.184  O       |  I    |       |       |     1.95
1.917    1.99    0.00      0.198  O       |  I    |       |       |     2.09
2.000    1.97    0.00      0.212  O       |  I    |       |       |     2.24
2.083    2.01    0.00      0.225  O       |  I    |       |       |     2.38
2.167    2.41    0.00      0.240  O       |    I  |       |       |     2.54
2.250    2.98    0.00      0.259  O       |       I       |       |     2.74
2.333    2.74    0.00      0.279  O       |      I|       |       |     2.94
2.417    3.65    0.00      0.301  O       |       |   I   |       |     3.05
2.500    4.85    0.00      0.330  O       |       |       |  I    |     3.15
2.583    5.71    0.00      0.366  O       |       |       |      I|     3.27
2.667    4.98    0.00      0.403  O       |       |       |  I    |     3.39
2.750    2.79    0.00      0.430  O       |      I|       |       |     3.48
2.833    1.54    0.00      0.445  O      I|       |       |       |     3.53
2.917    1.26    0.00      0.454  O     I|       |       |       |     3.56
3.000    0.79    0.00      0.461  O   I  |       |       |       |     3.58
3.083    0.27    0.00      0.465  OI     |       |       |       |     3.59
3.167    0.05    0.00      0.466  O      |       |       |       |     3.60
3.250    0.01    0.00      0.466  O      |       |       |       |     3.60
3.333    0.00    0.00      0.466  O      |       |       |       |     3.60

 Remaining water in basin =    0.47 (Ac.Ft)

 ****************************HYDROGRAPH DATA****************************
               Number of intervals =    40
               Time interval =    5.0 (Min.)
               Maximum/Peak flow rate =        0.004 (CFS)
               Total volume =       0.001 (Ac.Ft)
        Status of hydrographs being held in storage
                     Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
        Peak (CFS)      0.000     0.000     0.000     0.000     0.000
        Vol (Ac.Ft)      0.000     0.000     0.000     0.000     0.000
 ***********************************************************************

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                    FLOOD HYDROGRAPH ROUTING PROGRAM
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                          Study date: 03/02/22

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Program License Serial Number 5006

------------------------------------------------------------------------
******************** HYDROGRAPH INFORMATION **********************

               From study/file name: pro565.rte
*****************************HYDROGRAPH DATA*****************************
               Number of intervals =    75
               Time interval =    5.0 (Min.)
               Maximum/Peak flow rate =        5.285 (CFS)
               Total volume =       0.654 (Ac.Ft)
       Status of hydrographs being held in storage
                    Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
       Peak (CFS)      0.000     0.000     0.000     0.000     0.000
       Vol (Ac.Ft)     0.000     0.000     0.000     0.000     0.000
************************************************************************



++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        1.000 to Point/Station        2.000
**** RETARDING BASIN ROUTING ****
____________________________________________________________________________

User entry of depth-outflow-storage data
------------------------------------------------------------------------
Total number of inflow hydrograph intervals = 75
Hydrograph time unit =  5.000 (Min.)
Initial depth in storage basin =   0.00(Ft.)
------------------------------------------------------------------------
------------------------------------------------------------------------
Initial basin depth =   0.00 (Ft.)
Initial basin storage =      0.00 (Ac.Ft)
Initial basin outflow =   0.00 (CFS)
------------------------------------------------------------------------
------------------------------------------------------------------------
Depth vs. Storage and Depth vs. Discharge data:
 Basin Depth  Storage    Outflow   (S-O*dt/2)   (S+O*dt/2)
     (Ft.)    (Ac.Ft)    (CFS)     (Ac.Ft)    (Ac.Ft)
------------------------------------------------------------------------
   0.000      0.000      0.000      0.000        0.000
   1.000      0.095      0.001      0.095        0.095
   2.000      0.189      0.002      0.189        0.189
   3.000      0.284      0.003      0.284        0.284
   4.000      0.589      0.004      0.589        0.589
   5.000      0.789      0.154      0.788        0.790
   6.000      1.011      0.350      1.010        1.012
   7.000      1.258      0.618      1.256        1.260
   7.400      1.364      0.690      1.362        1.366
   8.000      1.530     50.310      1.357        1.703
------------------------------------------------------------------------
               Hydrograph Detention Basin Routing
------------------------------------------------------------------------

Graph values: 'I'= unit inflow; 'O'=outflow at time shown
------------------------------------------------------------------------
 Time   Inflow  Outflow    Storage                                    Depth
(Hours) (CFS)   (CFS)     (Ac.Ft) .0       1.3    2.64    3.96    5.28 (Ft.)
 0.083    0.24    0.00      0.001  OI      |       |       |       |     0.01
 0.167    0.47    0.00      0.003  O I     |       |       |       |     0.03
 0.250    0.55    0.00      0.007  O  I    |       |       |       |     0.07
 0.333    0.56    0.00      0.011  O  I    |       |       |       |     0.11
 0.417    0.56    0.00      0.014  O  I    |       |       |       |     0.15
 0.500    0.61    0.00      0.019  O  I    |       |       |       |     0.19
 0.583    0.65    0.00      0.023  O  I    |       |       |       |     0.24
 0.667    0.66    0.00      0.027  O  I    |       |       |       |     0.29
 0.750    0.66    0.00      0.032  O  I    |       |       |       |     0.34
 0.833    0.66    0.00      0.036  O  I    |       |       |       |     0.38
 0.917    0.66    0.00      0.041  O  I    |       |       |       |     0.43
 1.000    0.71    0.00      0.046  O   I   |       |       |       |     0.48
 1.083    0.74    0.00      0.051  O   I   |       |       |       |     0.53
 1.167    0.75    0.00      0.056  O   I   |       |       |       |     0.59
 1.250    0.75    0.00      0.061  O   I   |       |       |       |     0.64
 1.333    0.75    0.00      0.066  O   I   |       |       |       |     0.70
 1.417    0.75    0.00      0.071  O   I   |       |       |       |     0.75
 1.500    0.75    0.00      0.076  O   I   |       |       |       |     0.80
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1.583    0.75    0.00      0.082  O   I   |       |       |       |     0.86
1.667    0.75    0.00      0.087  O   I   |       |       |       |     0.91
1.750    0.75    0.00      0.092  O   I   |       |       |       |     0.97
1.833    0.75    0.00      0.097  O   I   |       |       |       |     1.02
1.917    0.75    0.00      0.102  O   I   |       |       |       |     1.08
2.000    0.80    0.00      0.108  O   I   |       |       |       |     1.13
2.083    0.79    0.00      0.113  O   I   |       |       |       |     1.19
2.167    0.81    0.00      0.119  O   I   |       |       |       |     1.25
2.250    0.84    0.00      0.124  O    I  |       |       |       |     1.31
2.333    0.84    0.00      0.130  O    I  |       |       |       |     1.37
2.417    0.85    0.00      0.136  O    I  |       |       |       |     1.43
2.500    0.85    0.00      0.142  O    I  |       |       |       |     1.50
2.583    0.85    0.00      0.148  O    I  |       |       |       |     1.56
2.667    0.85    0.00      0.153  O    I  |       |       |       |     1.62
2.750    0.89    0.00      0.159  O    I  |       |       |       |     1.68
2.833    0.93    0.00      0.166  O    I  |       |       |       |     1.75
2.917    0.94    0.00      0.172  O    I  |       |       |       |     1.82
3.000    0.94    0.00      0.178  O    I  |       |       |       |     1.89
3.083    0.94    0.00      0.185  O    I  |       |       |       |     1.96
3.167    0.99    0.00      0.192  O    I  |       |       |       |     2.03
3.250    1.03    0.00      0.198  O     I |       |       |       |     2.10
3.333    1.03    0.00      0.206  O     I |       |       |       |     2.17
3.417    1.08    0.00      0.213  O     I |       |       |       |     2.25
3.500    1.17    0.00      0.221  O      I|       |       |       |     2.33
3.583    1.26    0.00      0.229  O      I|       |       |       |     2.42
3.667    1.31    0.00      0.238  O      I|       |       |       |     2.51
3.750    1.36    0.00      0.247  O       I       |       |       |     2.61
3.833    1.40    0.00      0.256  O       I       |       |       |     2.71
3.917    1.46    0.00      0.266  O       I       |       |       |     2.81
4.000    1.50    0.00      0.276  O       |I      |       |       |     2.92
4.083    1.55    0.00      0.287  O       |I      |       |       |     3.01
4.167    1.64    0.00      0.298  O       |I      |       |       |     3.05
4.250    1.73    0.00      0.309  O        | I    |       |       |     3.08
4.333    1.82    0.00      0.322  O        |  I   |       |       |     3.12
4.417    1.92    0.00      0.334  O        |  I   |       |       |     3.17
4.500    1.96    0.00      0.348  O        |  I   |       |       |     3.21
4.583    2.02    0.00      0.361  O        |   I  |       |       |     3.25
4.667    2.11    0.00      0.376  O        |   I  |       |       |     3.30
4.750    2.20    0.00      0.390  O        |    I |       |       |     3.35
4.833    2.25    0.00      0.406  O        |    I |       |       |     3.40
4.917    2.30    0.00      0.421  O        |    I |       |       |     3.45
5.000    2.39    0.00      0.437  O        |     I|       |       |     3.50
5.083    2.67    0.00      0.455  O        |      I       |       |     3.56
5.167    3.11    0.00      0.475  O        |       | I    |       |     3.63
5.250    3.47    0.00      0.497  O        |       |   I  |       |     3.70
5.333    3.77    0.00      0.522  O        |       |    I |       |     3.78
5.417    4.28    0.00      0.550  O        |       |      I       |     3.87
5.500    5.28    0.00      0.583  O        |       |       |      I    3.98
5.583    3.74    0.02      0.614  O        |       |    I  |       |     4.12
5.667    1.67    0.04      0.632  O        | I     |       |       |     4.22
5.750    0.88    0.04      0.641  O    I   |       |       |       |     4.26
5.833    0.56    0.05      0.646  O  I     |       |       |       |     4.28
5.917    0.39    0.05      0.648  O I      |       |       |       |     4.30
6.000    0.25    0.05      0.650  OI       |       |       |       |     4.31
6.083    0.11    0.05      0.651  O        |       |       |       |     4.31
6.167    0.02    0.05      0.651  O        |       |       |       |     4.31
6.250    0.00    0.05      0.651  O        |       |       |       |     4.31
6.333    0.00    0.05      0.651  O        |       |       |       |     4.31

      Remaining water in basin =    0.65 (Ac.Ft)

      ****************************HYDROGRAPH DATA****************************
                    Number of intervals =    76
                    Time interval =    5.0 (Min.)
                    Maximum/Peak flow rate =        0.051 (CFS)
                    Total volume =       0.004 (Ac.Ft)
             Status of hydrographs being held in storage
                      Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
             Peak (CFS)      0.000     0.000     0.000     0.000     0.000
             Vol (Ac.Ft)      0.000     0.000     0.000     0.000     0.000
      ***********************************************************************

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                          Study date: 03/02/22

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******************** HYDROGRAPH INFORMATION **********************

               From study/file name: pro5245.rte
*****************************HYDROGRAPH DATA*****************************
               Number of intervals =   291
               Time interval =    5.0 (Min.)
               Maximum/Peak flow rate =        1.723 (CFS)
               Total volume =       1.047 (Ac.Ft)
       Status of hydrographs being held in storage
                  Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
       Peak (CFS)      0.000     0.000     0.000     0.000     0.000
       Vol (Ac.Ft)     0.000     0.000     0.000     0.000     0.000
************************************************************************



++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        1.000 to Point/Station        2.000
**** RETARDING BASIN ROUTING ****
____________________________________________________________________________

User entry of depth-outflow-storage data
------------------------------------------------------------------------
Total number of inflow hydrograph intervals = 291
Hydrograph time unit =  5.000 (Min.)
Initial depth in storage basin =   0.00(Ft.)
------------------------------------------------------------------------
------------------------------------------------------------------------
Initial basin depth =   0.00 (Ft.)
Initial basin storage =      0.00 (Ac.Ft)
Initial basin outflow =   0.00 (CFS)
------------------------------------------------------------------------
------------------------------------------------------------------------
Depth vs. Storage and Depth vs. Discharge data:
 Basin Depth  Storage    Outflow   (S-O*dt/2)   (S+O*dt/2)
     (Ft.)    (Ac.Ft)    (CFS)     (Ac.Ft)    (Ac.Ft)
------------------------------------------------------------------------
   0.000      0.000      0.000      0.000        0.000
   1.000      0.095      0.001      0.095        0.095
   2.000      0.189      0.002      0.189        0.189
   3.000      0.284      0.003      0.284        0.284
   4.000      0.589      0.004      0.589        0.589
   5.000      0.789      0.154      0.788        0.790
   6.000      1.011      0.350      1.010        1.012
   7.000      1.258      0.618      1.256        1.260
   7.400      1.364      0.690      1.362        1.366
   8.000      1.530     50.310      1.357        1.703
------------------------------------------------------------------------
               Hydrograph Detention Basin Routing
------------------------------------------------------------------------

Graph values: 'I'= unit inflow; 'O'=outflow at time shown
------------------------------------------------------------------------
  Time   Inflow  Outflow    Storage                                    Depth
 (Hours)  (CFS)   (CFS)     (Ac.Ft) .0       0.4    0.86    1.29    1.72 (Ft.)
  0.083    0.05    0.00      0.000  O       |       |       |       |     0.00
  0.167    0.09    0.00      0.001  OI      |       |       |       |     0.01
  0.250    0.10    0.00      0.001  OI      |       |       |       |     0.01
  0.333    0.13    0.00      0.002  O I     |       |       |       |     0.02
  0.417    0.15    0.00      0.003  O I     |       |       |       |     0.03
  0.500    0.15    0.00      0.004  O I     |       |       |       |     0.04
  0.583    0.15    0.00      0.005  O I     |       |       |       |     0.05
  0.667    0.15    0.00      0.006  O I     |       |       |       |     0.06
  0.750    0.15    0.00      0.007  O I     |       |       |       |     0.08
  0.833    0.18    0.00      0.008  O  I    |       |       |       |     0.09
  0.917    0.20    0.00      0.010  O  I    |       |       |       |     0.10
  1.000    0.20    0.00      0.011  O  I    |       |       |       |     0.12
  1.083    0.18    0.00      0.012  O  I    |       |       |       |     0.13
  1.167    0.16    0.00      0.013  O I     |       |       |       |     0.14
  1.250    0.15    0.00      0.015  O I     |       |       |       |     0.15
  1.333    0.15    0.00      0.016  O I     |       |       |       |     0.16
  1.417    0.15    0.00      0.017  O I     |       |       |       |     0.18
  1.500    0.15    0.00      0.018  O I     |       |       |       |     0.19
```

1.583	0.15	0.00	0.019	o I	|	|	|	|	0.20
1.667	0.15	0.00	0.020	o I	|	|	|	|	0.21
1.750	0.15	0.00	0.021	o I	|	|	|	|	0.22
1.833	0.18	0.00	0.022	o I	|	|	|	|	0.23
1.917	0.20	0.00	0.023	o I	|	|	|	|	0.24
2.000	0.20	0.00	0.025	o I	|	|	|	|	0.26
2.083	0.20	0.00	0.026	o I	|	|	|	|	0.27
2.167	0.20	0.00	0.027	o I	|	|	|	|	0.29
2.250	0.20	0.00	0.029	o I	|	|	|	|	0.30
2.333	0.20	0.00	0.030	o I	|	|	|	|	0.32
2.417	0.20	0.00	0.032	o I	|	|	|	|	0.33
2.500	0.20	0.00	0.033	o I	|	|	|	|	0.35
2.583	0.23	0.00	0.034	o I	|	|	|	|	0.36
2.667	0.25	0.00	0.036	o I	|	|	|	|	0.38
2.750	0.25	0.00	0.038	o I	|	|	|	|	0.40
2.833	0.25	0.00	0.040	o I	|	|	|	|	0.42
2.917	0.25	0.00	0.041	o I	|	|	|	|	0.43
3.000	0.25	0.00	0.043	o I	|	|	|	|	0.45
3.083	0.25	0.00	0.045	o I	|	|	|	|	0.47
3.167	0.25	0.00	0.047	o I	|	|	|	|	0.49
3.250	0.25	0.00	0.048	o I	|	|	|	|	0.51
3.333	0.25	0.00	0.050	o I	|	|	|	|	0.53
3.417	0.25	0.00	0.052	o I	|	|	|	|	0.54
3.500	0.25	0.00	0.053	o I	|	|	|	|	0.56
3.583	0.25	0.00	0.055	o I	|	|	|	|	0.58
3.667	0.25	0.00	0.057	o I	|	|	|	|	0.60
3.750	0.25	0.00	0.059	o I	|	|	|	|	0.62
3.833	0.28	0.00	0.061	o I	|	|	|	|	0.64
3.917	0.30	0.00	0.063	o I	|	|	|	|	0.66
4.000	0.30	0.00	0.065	o I	|	|	|	|	0.68
4.083	0.30	0.00	0.067	o I	|	|	|	|	0.70
4.167	0.30	0.00	0.069	o I	|	|	|	|	0.72
4.250	0.30	0.00	0.071	o I	|	|	|	|	0.75
4.333	0.33	0.00	0.073	o I	|	|	|	|	0.77
4.417	0.35	0.00	0.075	o I	|	|	|	|	0.79
4.500	0.35	0.00	0.078	o I	|	|	|	|	0.82
4.583	0.35	0.00	0.080	o I	|	|	|	|	0.84
4.667	0.35	0.00	0.083	o I	|	|	|	|	0.87
4.750	0.35	0.00	0.085	o I	|	|	|	|	0.90
4.833	0.38	0.00	0.088	o I	|	|	|	|	0.92
4.917	0.40	0.00	0.090	o I	|	|	|	|	0.95
5.000	0.40	0.00	0.093	o I	|	|	|	|	0.98
5.083	0.35	0.00	0.096	o I	|	|	|	|	1.01
5.167	0.31	0.00	0.098	o I	|	|	|	|	1.03
5.250	0.31	0.00	0.100	o I	|	|	|	|	1.05
5.333	0.33	0.00	0.102	o I	|	|	|	|	1.08
5.417	0.35	0.00	0.105	o I	|	|	|	|	1.10
5.500	0.35	0.00	0.107	o I	|	|	|	|	1.13
5.583	0.38	0.00	0.110	o I	|	|	|	|	1.15
5.667	0.40	0.00	0.112	o I	|	|	|	|	1.18
5.750	0.40	0.00	0.115	o I	|	|	|	|	1.21
5.833	0.41	0.00	0.118	o I	|	|	|	|	1.24
5.917	0.41	0.00	0.121	o I	|	|	|	|	1.27
6.000	0.41	0.00	0.123	o I	|	|	|	|	1.30
6.083	0.43	0.00	0.126	o I	|	|	|	|	1.33
6.167	0.45	0.00	0.129	o I	|	|	|	|	1.36
6.250	0.45	0.00	0.132	o I	|	|	|	|	1.40
6.333	0.46	0.00	0.135	o I	|	|	|	|	1.43
6.417	0.46	0.00	0.139	o I	|	|	|	|	1.46
6.500	0.46	0.00	0.142	o I	|	|	|	|	1.50
6.583	0.48	0.00	0.145	o I	|	|	|	|	1.53
6.667	0.50	0.00	0.148	o I	|	|	|	|	1.57
6.750	0.51	0.00	0.152	o I	|	|	|	|	1.60
6.833	0.51	0.00	0.155	o I	|	|	|	|	1.64
6.917	0.51	0.00	0.159	o I	|	|	|	|	1.68
7.000	0.51	0.00	0.162	o I	|	|	|	|	1.71
7.083	0.51	0.00	0.166	o I	|	|	|	|	1.75
7.167	0.51	0.00	0.169	o I	|	|	|	|	1.79
7.250	0.51	0.00	0.173	o I	|	|	|	|	1.83
7.333	0.53	0.00	0.176	o I	|	|	|	|	1.86
7.417	0.55	0.00	0.180	o I	|	|	|	|	1.90
7.500	0.56	0.00	0.184	o I	|	|	|	|	1.94
7.583	0.58	0.00	0.188	o I	|	|	|	|	1.99
7.667	0.60	0.00	0.192	o I	|	|	|	|	2.03
7.750	0.61	0.00	0.196	o I	|	|	|	|	2.07
7.833	0.63	0.00	0.200	o I	|	|	|	|	2.12
7.917	0.65	0.00	0.205	o I	|	|	|	|	2.16
8.000	0.66	0.00	0.209	o I	|	|	|	|	2.21
8.083	0.71	0.00	0.214	o I	|	|	|	|	2.26
8.167	0.75	0.00	0.219	o I	|	|	|	|	2.31
8.250	0.76	0.00	0.224	o I	|	|	|	|	2.37
8.333	0.76	0.00	0.229	o I	|	|	|	|	2.42
8.417	0.76	0.00	0.234	o I	|	|	|	|	2.48
8.500	0.76	0.00	0.240	o I	|	|	|	|	2.53
8.583	0.79	0.00	0.245	o I	|	|	|	|	2.59
8.667	0.81	0.00	0.250	o I	|	|	|	|	2.65
8.750	0.81	0.00	0.256	o I	|	|	|	|	2.70

8.833	0.84	0.00	0.262	o	|	I|	|	2.76
8.917	0.86	0.00	0.267	o	|	I|	|	2.82
9.000	0.86	0.00	0.273	o	|	I|	|	2.89
9.083	0.91	0.00	0.279	o	|	I	|	2.95
9.167	0.95	0.00	0.286	o	|	|I	|	3.01
9.250	0.96	0.00	0.292	o	|	|I	|	3.03
9.333	0.99	0.00	0.299	o	|	| I	|	3.05
9.417	1.01	0.00	0.306	o	|	| I	|	3.07
9.500	1.01	0.00	0.313	o	|	| I	|	3.09
9.583	1.04	0.00	0.320	o	|	| I	|	3.12
9.667	1.06	0.00	0.327	o	|	| I	|	3.14
9.750	1.06	0.00	0.334	o	|	| I	|	3.16
9.833	1.09	0.00	0.342	o	|	| I	|	3.19
9.917	1.11	0.00	0.349	o	|	| I	|	3.21
10.000	1.11	0.00	0.357	o	|	| I	|	3.24
10.083	0.94	0.00	0.364	o	|	|I	|	3.26
10.167	0.79	0.00	0.370	o	| I	|	|	3.28
10.250	0.77	0.00	0.375	o	| I	|	|	3.30
10.333	0.76	0.00	0.380	o	| I	|	|	3.32
10.417	0.76	0.00	0.386	o	| I	|	|	3.33
10.500	0.76	0.00	0.391	o	| I	|	|	3.35
10.583	0.89	0.00	0.397	o	| I	|	|	3.37
10.667	0.99	0.00	0.403	o	|	I	|	3.39
10.750	1.01	0.00	0.410	o	|	I	|	3.41
10.833	1.01	0.00	0.417	o	|	I	|	3.44
10.917	1.01	0.00	0.424	o	|	I	|	3.46
11.000	1.01	0.00	0.431	o	|	I	|	3.48
11.083	0.99	0.00	0.438	o	|	I	|	3.50
11.167	0.97	0.00	0.444	o	|	|I	|	3.53
11.250	0.96	0.00	0.451	o	|	|I	|	3.55
11.333	0.96	0.00	0.457	o	|	|I	|	3.57
11.417	0.96	0.00	0.464	o	|	|I	|	3.59
11.500	0.96	0.00	0.471	o	|	|I	|	3.61
11.583	0.91	0.00	0.477	o	|	I	|	3.63
11.667	0.87	0.00	0.483	o	|	I	|	3.65
11.750	0.86	0.00	0.489	o	|	I	|	3.67
11.833	0.89	0.00	0.495	o	|	I	|	3.69
11.917	0.91	0.00	0.501	o	|	I	|	3.71
12.000	0.91	0.00	0.508	o	|	I	|	3.73
12.083	1.09	0.00	0.514	o	|	| I	|	3.76
12.167	1.23	0.00	0.522	o	|	| I	|	3.78
12.250	1.26	0.00	0.531	o	|	| I|	|	3.81
12.333	1.29	0.00	0.540	o	|	| I	|	3.84
12.417	1.31	0.00	0.549	o	|	| I	|	3.87
12.500	1.32	0.00	0.558	o	|	| I	|	3.90
12.583	1.37	0.00	0.567	o	|	| |I	|	3.93
12.667	1.41	0.00	0.576	o	|	| | I	|	3.96
12.750	1.42	0.00	0.586	o	|	| | I	|	3.99
12.833	1.44	0.01	0.596	o	|	| | I	|	4.03
12.917	1.46	0.02	0.606	o	|	| | I	|	4.08
13.000	1.47	0.02	0.616	o	|	| | I	|	4.13
13.083	1.60	0.03	0.626	o	|	| | I	|	4.19
13.167	1.70	0.04	0.637	o	|	| | I|	|	4.24
13.250	1.72	0.05	0.649	o	|	| | I|	|	4.30
13.333	1.72	0.06	0.660	|o	|	| | I	|	4.36
13.417	1.72	0.07	0.672	|o	|	| | I	|	4.41
13.500	1.72	0.07	0.683	|o	|	| | I	|	4.47
13.583	1.44	0.08	0.693	|o	|	| | I	|	4.52
13.667	1.22	0.09	0.702	|o	|	| I	|	4.57
13.750	1.18	0.09	0.710	|o	|	| I	|	4.60
13.833	1.17	0.10	0.717	|o	|	| I	|	4.64
13.917	1.17	0.11	0.724	|o	|	| I	|	4.68
14.000	1.17	0.11	0.732	| o	|	| I	|	4.71
14.083	1.27	0.12	0.739	| o	|	| I|	|	4.75
14.167	1.35	0.12	0.747	| o	|	| |I	|	4.79
14.250	1.36	0.13	0.756	| o	|	| |I	|	4.83
14.333	1.34	0.14	0.764	| o	|	| I	|	4.88
14.417	1.32	0.14	0.772	| o	|	| I	|	4.92
14.500	1.32	0.15	0.781	| o	|	| I	|	4.96
14.583	1.32	0.15	0.789	| o	|	| I	|	5.00
14.667	1.32	0.16	0.797	| o	|	| I	|	5.03
14.750	1.32	0.17	0.805	| o	|	| I	|	5.07
14.833	1.29	0.17	0.812	| o	|	| I|	|	5.11
14.917	1.27	0.18	0.820	| o	|	| I|	|	5.14
15.000	1.27	0.19	0.827	| o	|	| I|	|	5.17
15.083	1.24	0.19	0.835	| o	|	| I|	|	5.21
15.167	1.22	0.20	0.842	| o	|	| I	|	5.24
15.250	1.22	0.21	0.849	| o	|	| I	|	5.27
15.333	1.19	0.21	0.856	| o	|	| I	|	5.30
15.417	1.17	0.22	0.862	| o	|	| I	|	5.33
15.500	1.17	0.22	0.869	| o	|	| I	|	5.36
15.583	1.06	0.23	0.875	| o	|	| I	|	5.39
15.667	0.98	0.23	0.880	| o	|	| I	|	5.41
15.750	0.97	0.24	0.886	| o	|	|I	|	5.43
15.833	0.96	0.24	0.890	| o	|	|I	|	5.46
15.917	0.96	0.25	0.895	| o	|	|I	|	5.48
16.000	0.96	0.25	0.900	| o	|	|I	|	5.50

16.083	0.58	0.26	0.904	O	I			5.52
16.167	0.27	0.26	0.905	OI				5.52
16.250	0.22	0.26	0.905	O				5.52
16.333	0.20	0.26	0.905	IO				5.52
16.417	0.20	0.26	0.904	IO				5.52
16.500	0.20	0.26	0.904	IO				5.52
16.583	0.18	0.26	0.903	IO				5.52
16.667	0.16	0.25	0.903	I O				5.51
16.750	0.15	0.25	0.902	I O				5.51
16.833	0.15	0.25	0.901	I O				5.51
16.917	0.15	0.25	0.901	I O				5.50
17.000	0.15	0.25	0.900	I O				5.50
17.083	0.20	0.25	0.900	IO				5.50
17.167	0.24	0.25	0.899	O				5.50
17.250	0.25	0.25	0.899	O				5.50
17.333	0.25	0.25	0.899	O				5.50
17.417	0.25	0.25	0.899	O				5.50
17.500	0.25	0.25	0.899	O				5.50
17.583	0.25	0.25	0.899	O				5.50
17.667	0.25	0.25	0.899	O				5.50
17.750	0.25	0.25	0.899	O				5.50
17.833	0.23	0.25	0.899	O				5.50
17.917	0.21	0.25	0.899	IO				5.50
18.000	0.20	0.25	0.899	IO				5.49
18.083	0.20	0.25	0.898	IO				5.49
18.167	0.20	0.25	0.898	IO				5.49
18.250	0.20	0.25	0.898	IO				5.49
18.333	0.20	0.25	0.898	IO				5.49
18.417	0.20	0.25	0.897	IO				5.49
18.500	0.20	0.25	0.897	IO				5.49
18.583	0.18	0.25	0.896	IO				5.48
18.667	0.16	0.25	0.896	I O				5.48
18.750	0.15	0.25	0.895	I O				5.48
18.833	0.13	0.25	0.895	I O				5.48
18.917	0.11	0.25	0.894	I O				5.47
19.000	0.10	0.25	0.893	I O				5.47
19.083	0.13	0.24	0.892	I O				5.46
19.167	0.15	0.24	0.891	I O				5.46
19.250	0.15	0.24	0.890	I O				5.46
19.333	0.18	0.24	0.890	IO				5.45
19.417	0.20	0.24	0.889	IO				5.45
19.500	0.20	0.24	0.889	IO				5.45
19.583	0.18	0.24	0.889	IO				5.45
19.667	0.16	0.24	0.888	I O				5.45
19.750	0.15	0.24	0.888	I O				5.44
19.833	0.13	0.24	0.887	I O				5.44
19.917	0.11	0.24	0.886	I O				5.44
20.000	0.10	0.24	0.885	I O				5.43
20.083	0.13	0.24	0.884	I O				5.43
20.167	0.15	0.24	0.884	I O				5.43
20.250	0.15	0.24	0.883	I O				5.42
20.333	0.15	0.24	0.882	I O				5.42
20.417	0.15	0.24	0.882	I O				5.42
20.500	0.15	0.24	0.881	I O				5.42
20.583	0.15	0.23	0.881	I O				5.41
20.667	0.15	0.23	0.880	I O				5.41
20.750	0.15	0.23	0.880	I O				5.41
20.833	0.13	0.23	0.879	I O				5.41
20.917	0.11	0.23	0.878	I O				5.40
21.000	0.10	0.23	0.877	I O				5.40
21.083	0.13	0.23	0.876	I O				5.39
21.167	0.15	0.23	0.876	I O				5.39
21.250	0.15	0.23	0.875	I O				5.39
21.333	0.13	0.23	0.875	I O				5.39
21.417	0.11	0.23	0.874	I O				5.38
21.500	0.10	0.23	0.873	I O				5.38
21.583	0.13	0.23	0.872	I O				5.37
21.667	0.15	0.23	0.872	I O				5.37
21.750	0.15	0.23	0.871	I O				5.37
21.833	0.13	0.23	0.870	I O				5.37
21.917	0.11	0.23	0.870	I O				5.36
22.000	0.10	0.22	0.869	I O				5.36
22.083	0.13	0.22	0.868	I O				5.36
22.167	0.15	0.22	0.867	I O				5.35
22.250	0.15	0.22	0.867	I O				5.35
22.333	0.13	0.22	0.866	I O				5.35
22.417	0.11	0.22	0.866	I O				5.35
22.500	0.10	0.22	0.865	I O				5.34
22.583	0.10	0.22	0.864	I O				5.34
22.667	0.10	0.22	0.863	I O				5.33
22.750	0.10	0.22	0.862	I O				5.33
22.833	0.10	0.22	0.862	I O				5.33
22.917	0.10	0.22	0.861	I O				5.32
23.000	0.10	0.22	0.860	I O				5.32
23.083	0.10	0.22	0.859	I O				5.32
23.167	0.10	0.22	0.858	I O				5.31
23.250	0.10	0.21	0.858	I O				5.31

23.333	0.10	0.21	0.857	|I o	|	|	|	5.31
23.417	0.10	0.21	0.856	|I o	|	|	|	5.30
23.500	0.10	0.21	0.855	|I o	|	|	|	5.30
23.583	0.10	0.21	0.855	|I o	|	|	|	5.30
23.667	0.10	0.21	0.854	|I o	|	|	|	5.29
23.750	0.10	0.21	0.853	|I o	|	|	|	5.29
23.833	0.10	0.21	0.852	|I o	|	|	|	5.29
23.917	0.10	0.21	0.852	|I o	|	|	|	5.28
24.000	0.10	0.21	0.851	|I o	|	|	|	5.28
24.083	0.05	0.21	0.850	I o	|	|	|	5.27
24.167	0.01	0.21	0.849	I o	|	|	|	5.27
24.250	0.00	0.21	0.847	I o	|	|	|	5.26
24.333	0.00	0.20	0.846	I o	|	|	|	5.26
24.417	0.00	0.20	0.845	I o	|	|	|	5.25
24.500	0.00	0.20	0.843	I o	|	|	|	5.24
24.583	0.00	0.20	0.842	I o	|	|	|	5.24
24.667	0.00	0.20	0.840	I o	|	|	|	5.23
24.750	0.00	0.20	0.839	I o	|	|	|	5.23
24.833	0.00	0.20	0.838	I o	|	|	|	5.22
24.917	0.00	0.20	0.836	I o	|	|	|	5.21
25.000	0.00	0.19	0.835	I o	|	|	|	5.21
25.083	0.00	0.19	0.834	I o	|	|	|	5.20
25.167	0.00	0.19	0.832	I o	|	|	|	5.19
25.250	0.00	0.19	0.831	I o	|	|	|	5.19
25.333	0.00	0.19	0.830	I o	|	|	|	5.18
25.417	0.00	0.19	0.828	I o	|	|	|	5.18
25.500	0.00	0.19	0.827	I o	|	|	|	5.17
25.583	0.00	0.19	0.826	I o	|	|	|	5.17
25.667	0.00	0.19	0.824	I o	|	|	|	5.16
25.750	0.00	0.18	0.823	I o	|	|	|	5.15
25.833	0.00	0.18	0.822	I o	|	|	|	5.15
25.917	0.00	0.18	0.821	I o	|	|	|	5.14
26.000	0.00	0.18	0.819	I o	|	|	|	5.14
26.083	0.00	0.18	0.818	I o	|	|	|	5.13
26.167	0.00	0.18	0.817	I o	|	|	|	5.13
26.250	0.00	0.18	0.816	I o	|	|	|	5.12
26.333	0.00	0.18	0.814	I o	|	|	|	5.11
26.417	0.00	0.18	0.813	I o	|	|	|	5.11
26.500	0.00	0.17	0.812	I o	|	|	|	5.10
26.583	0.00	0.17	0.811	I o	|	|	|	5.10
26.667	0.00	0.17	0.810	I o	|	|	|	5.09
26.750	0.00	0.17	0.809	I o	|	|	|	5.09
26.833	0.00	0.17	0.807	I o	|	|	|	5.08
26.917	0.00	0.17	0.806	I o	|	|	|	5.08
27.000	0.00	0.17	0.805	I o	|	|	|	5.07
27.083	0.00	0.17	0.804	I o	|	|	|	5.07
27.167	0.00	0.17	0.803	I o	|	|	|	5.06
27.250	0.00	0.17	0.802	I o	|	|	|	5.06
27.333	0.00	0.16	0.800	I o	|	|	|	5.05
27.417	0.00	0.16	0.799	I o	|	|	|	5.05
27.500	0.00	0.16	0.798	I o	|	|	|	5.04
27.583	0.00	0.16	0.797	I o	|	|	|	5.04
27.667	0.00	0.16	0.796	I o	|	|	|	5.03
27.750	0.00	0.16	0.795	I o	|	|	|	5.03
27.833	0.00	0.16	0.794	I o	|	|	|	5.02
27.917	0.00	0.16	0.793	I o	|	|	|	5.02
28.000	0.00	0.16	0.792	I o	|	|	|	5.01
28.083	0.00	0.16	0.791	I o	|	|	|	5.01
28.167	0.00	0.15	0.789	I o	|	|	|	5.00
28.250	0.00	0.15	0.788	I o	|	|	|	5.00
28.333	0.00	0.15	0.787	I o	|	|	|	4.99
28.417	0.00	0.15	0.786	I o	|	|	|	4.99
28.500	0.00	0.15	0.785	I o	|	|	|	4.98
28.583	0.00	0.15	0.784	I o	|	|	|	4.98
28.667	0.00	0.15	0.783	I o	|	|	|	4.97
28.750	0.00	0.15	0.782	I o	|	|	|	4.97
28.833	0.00	0.15	0.781	I o	|	|	|	4.96
28.917	0.00	0.15	0.780	I o	|	|	|	4.96
29.000	0.00	0.15	0.779	I o	|	|	|	4.95
29.083	0.00	0.15	0.778	I o	|	|	|	4.95
29.167	0.00	0.15	0.777	I o	|	|	|	4.94
29.250	0.00	0.14	0.776	I o	|	|	|	4.94
29.333	0.00	0.14	0.775	I o	|	|	|	4.93
29.417	0.00	0.14	0.774	I o	|	|	|	4.93
29.500	0.00	0.14	0.773	I o	|	|	|	4.92
29.583	0.00	0.14	0.772	I o	|	|	|	4.92
29.667	0.00	0.14	0.771	I o	|	|	|	4.91
29.750	0.00	0.14	0.770	I o	|	|	|	4.91
29.833	0.00	0.14	0.769	I o	|	|	|	4.90
29.917	0.00	0.14	0.768	I o	|	|	|	4.90
30.000	0.00	0.14	0.767	I o	|	|	|	4.89
30.083	0.00	0.14	0.766	I o	|	|	|	4.89
30.167	0.00	0.14	0.765	I o	|	|	|	4.88
30.250	0.00	0.14	0.765	I o	|	|	|	4.88
30.333	0.00	0.13	0.764	I o	|	|	|	4.87
30.417	0.00	0.13	0.763	I o	|	|	|	4.87
30.500	0.00	0.13	0.762	I o	|	|	|	4.86

30.583	0.00	0.13	0.761	I O	|	|	|	|	4.86
30.667	0.00	0.13	0.760	I O	|	|	|	|	4.85
30.750	0.00	0.13	0.759	I O	|	|	|	|	4.85
30.833	0.00	0.13	0.758	I O	|	|	|	|	4.85
30.917	0.00	0.13	0.757	I O	|	|	|	|	4.84
31.000	0.00	0.13	0.756	I O	|	|	|	|	4.84
31.083	0.00	0.13	0.755	I O	|	|	|	|	4.83
31.167	0.00	0.13	0.755	I O	|	|	|	|	4.83
31.250	0.00	0.13	0.754	I O	|	|	|	|	4.82
31.333	0.00	0.13	0.753	I O	|	|	|	|	4.82
31.417	0.00	0.13	0.752	I O	|	|	|	|	4.81
31.500	0.00	0.13	0.751	I O	|	|	|	|	4.81
31.583	0.00	0.12	0.750	I O	|	|	|	|	4.81
31.667	0.00	0.12	0.749	I O	|	|	|	|	4.80
31.750	0.00	0.12	0.748	I O	|	|	|	|	4.80
31.833	0.00	0.12	0.748	I O	|	|	|	|	4.79
31.917	0.00	0.12	0.747	I O	|	|	|	|	4.79
32.000	0.00	0.12	0.746	I O	|	|	|	|	4.78
32.083	0.00	0.12	0.745	I O	|	|	|	|	4.78
32.167	0.00	0.12	0.744	I O	|	|	|	|	4.78
32.250	0.00	0.12	0.743	I O	|	|	|	|	4.77
32.333	0.00	0.12	0.743	I O	|	|	|	|	4.77
32.417	0.00	0.12	0.742	I O	|	|	|	|	4.76
32.500	0.00	0.12	0.741	I O	|	|	|	|	4.76
32.583	0.00	0.12	0.740	I O	|	|	|	|	4.76
32.667	0.00	0.12	0.739	I O	|	|	|	|	4.75
32.750	0.00	0.12	0.739	I O	|	|	|	|	4.75
32.833	0.00	0.12	0.738	I O	|	|	|	|	4.74
32.917	0.00	0.11	0.737	I O	|	|	|	|	4.74
33.000	0.00	0.11	0.736	I O	|	|	|	|	4.74
33.083	0.00	0.11	0.735	I O	|	|	|	|	4.73
33.167	0.00	0.11	0.735	I O	|	|	|	|	4.73
33.250	0.00	0.11	0.734	I O	|	|	|	|	4.72
33.333	0.00	0.11	0.733	I O	|	|	|	|	4.72
33.417	0.00	0.11	0.732	I O	|	|	|	|	4.72
33.500	0.00	0.11	0.732	I O	|	|	|	|	4.71
33.583	0.00	0.11	0.731	I O	|	|	|	|	4.71
33.667	0.00	0.11	0.730	I O	|	|	|	|	4.71
33.750	0.00	0.11	0.729	I O	|	|	|	|	4.70
33.833	0.00	0.11	0.729	I O	|	|	|	|	4.70
33.917	0.00	0.11	0.728	I O	|	|	|	|	4.69
34.000	0.00	0.11	0.727	IO	|	|	|	|	4.69
34.083	0.00	0.11	0.726	IO	|	|	|	|	4.69
34.167	0.00	0.11	0.726	IO	|	|	|	|	4.68
34.250	0.00	0.11	0.725	IO	|	|	|	|	4.68
34.333	0.00	0.11	0.724	IO	|	|	|	|	4.68
34.417	0.00	0.10	0.723	IO	|	|	|	|	4.67
34.500	0.00	0.10	0.723	IO	|	|	|	|	4.67
34.583	0.00	0.10	0.722	IO	|	|	|	|	4.66
34.667	0.00	0.10	0.721	IO	|	|	|	|	4.66
34.750	0.00	0.10	0.721	IO	|	|	|	|	4.66
34.833	0.00	0.10	0.720	IO	|	|	|	|	4.65
34.917	0.00	0.10	0.719	IO	|	|	|	|	4.65
35.000	0.00	0.10	0.718	IO	|	|	|	|	4.65
35.083	0.00	0.10	0.718	IO	|	|	|	|	4.64
35.167	0.00	0.10	0.717	IO	|	|	|	|	4.64
35.250	0.00	0.10	0.716	IO	|	|	|	|	4.64

Remaining water in basin = 0.72 (Ac.Ft)

**********HYDROGRAPH DATA**********

Number of intervals = 423
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 0.256 (CFS)
Total volume = 0.331 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

****

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                          Study date: 03/02/22

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------------------------------------------------------------------------
******************** HYDROGRAPH INFORMATION **********************

               From study/file name: pro10110.rte
*****************************HYDROGRAPH DATA*****************************
               Number of intervals =    15
               Time interval =    5.0 (Min.)
               Maximum/Peak flow rate =       14.451 (CFS)
               Total volume =       0.412 (Ac.Ft)
       Status of hydrographs being held in storage
                    Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
       Peak (CFS)      0.000     0.000     0.000     0.000     0.000
       Vol (Ac.Ft)     0.000     0.000     0.000     0.000     0.000
*************************************************************************



++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        1.000 to Point/Station        2.000
**** RETARDING BASIN ROUTING ****
____________________________________________________________________________

User entry of depth-outflow-storage data
------------------------------------------------------------------------
Total number of inflow hydrograph intervals = 15
Hydrograph time unit =  5.000 (Min.)
Initial depth in storage basin =   0.00(Ft.)
------------------------------------------------------------------------
------------------------------------------------------------------------
Initial basin depth =   0.00 (Ft.)
Initial basin storage =      0.00 (Ac.Ft)
Initial basin outflow =   0.00 (CFS)
------------------------------------------------------------------------
------------------------------------------------------------------------
Depth vs. Storage and Depth vs. Discharge data:
 Basin Depth  Storage    Outflow   (S-O*dt/2)   (S+O*dt/2)
     (Ft.)    (Ac.Ft)    (CFS)     (Ac.Ft)    (Ac.Ft)
------------------------------------------------------------------------
   0.000      0.000      0.000      0.000        0.000
   1.000      0.095      0.001      0.095        0.095
   2.000      0.189      0.002      0.189        0.189
   3.000      0.284      0.003      0.284        0.284
   4.000      0.589      0.004      0.589        0.589
   5.000      0.789      0.154      0.788        0.790
   6.000      1.011      0.350      1.010        1.012
   7.000      1.258      0.618      1.256        1.260
   7.400      1.364      0.690      1.362        1.366
   8.000      1.530     50.310      1.357        1.703
------------------------------------------------------------------------
               Hydrograph Detention Basin Routing
------------------------------------------------------------------------

Graph values: 'I'= unit inflow; 'O'=outflow at time shown
------------------------------------------------------------------------
 Time   Inflow  Outflow    Storage                                    Depth
(Hours) (CFS)   (CFS)     (Ac.Ft) .0       3.6    7.23   10.84   14.45 (Ft.)
 0.083    1.05    0.00      0.004  O I     |       |       |       |     0.04
 0.167    1.90    0.00      0.014  O   I   |       |       |       |     0.14
 0.250    2.24    0.00      0.028  O   I   |       |       |       |     0.30
 0.333    2.43    0.00      0.044  O    I  |       |       |       |     0.46
 0.417    2.65    0.00      0.062  O    I  |       |       |       |     0.65
 0.500    3.09    0.00      0.081  O     I |       |       |       |     0.86
 0.583    3.69    0.00      0.105  O       I       |       |       |     1.10
 0.667    4.50    0.00      0.133  O       |I      |       |       |     1.40
 0.750    6.43    0.00      0.171  O       |     I |       |       |     1.80
 0.833   14.45    0.00      0.242  O       |       |       |      I|     2.56
 0.917   11.08    0.00      0.330  O       |       |      I        |     3.15
 1.000    4.38    0.00      0.384  O       |I      |       |       |     3.33
 1.083    1.70    0.00      0.404  O  I    |       |       |       |     3.39
 1.167    0.25    0.00      0.411  O       |       |       |       |     3.42
 1.250    0.05    0.00      0.412  O       |       |       |       |     3.42
 1.333    0.00    0.00      0.412  O       |       |       |       |     3.42
```

```
Remaining water in basin =    0.41 (Ac.Ft)


**************************HYDROGRAPH DATA**************************
               Number of intervals =    16
               Time interval =    5.0 (Min.)
               Maximum/Peak flow rate =        0.003 (CFS)
               Total volume =       0.000 (Ac.Ft)
       Status of hydrographs being held in storage
                  Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
       Peak (CFS)      0.000     0.000     0.000     0.000     0.000
       Vol (Ac.Ft)      0.000     0.000     0.000     0.000     0.000
*******************************************************************

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******************** HYDROGRAPH INFORMATION **********************

               From study/file name: pro10310.rte
*****************************HYDROGRAPH DATA*****************************
               Number of intervals =    39
               Time interval =    5.0 (Min.)
               Maximum/Peak flow rate =        7.867 (CFS)
               Total volume =       0.589 (Ac.Ft)
       Status of hydrographs being held in storage
                    Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
       Peak (CFS)      0.000     0.000     0.000     0.000     0.000
       Vol (Ac.Ft)     0.000     0.000     0.000     0.000     0.000
************************************************************************



++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        1.000 to Point/Station        2.000
**** RETARDING BASIN ROUTING ****
____________________________________________________________________________

User entry of depth-outflow-storage data
------------------------------------------------------------------------
Total number of inflow hydrograph intervals = 39
Hydrograph time unit =  5.000 (Min.)
Initial depth in storage basin =   0.00(Ft.)
------------------------------------------------------------------------
------------------------------------------------------------------------
Initial basin depth =   0.00 (Ft.)
Initial basin storage =      0.00 (Ac.Ft)
Initial basin outflow =   0.00 (CFS)
------------------------------------------------------------------------
------------------------------------------------------------------------
Depth vs. Storage and Depth vs. Discharge data:
 Basin Depth  Storage    Outflow   (S-O*dt/2)   (S+O*dt/2)
     (Ft.)    (Ac.Ft)    (CFS)     (Ac.Ft)    (Ac.Ft)
------------------------------------------------------------------------
   0.000      0.000      0.000      0.000        0.000
   1.000      0.095      0.001      0.095        0.095
   2.000      0.189      0.002      0.189        0.189
   3.000      0.284      0.003      0.284        0.284
   4.000      0.589      0.004      0.589        0.589
   5.000      0.789      0.154      0.788        0.790
   6.000      1.011      0.350      1.010        1.012
   7.000      1.258      0.618      1.256        1.260
   7.400      1.364      0.690      1.362        1.366
   8.000      1.530     50.310      1.357        1.703
------------------------------------------------------------------------
               Hydrograph Detention Basin Routing
------------------------------------------------------------------------

Graph values: 'I'= unit inflow; 'O'=outflow at time shown
------------------------------------------------------------------------
 Time   Inflow  Outflow    Storage                                    Depth
(Hours) (CFS)   (CFS)     (Ac.Ft) .0       2.0    3.93    5.90    7.87 (Ft.)
 0.083    0.52    0.00      0.002  O I     |       |       |       |     0.02
 0.167    0.92    0.00      0.007  O  I    |       |       |       |     0.07
 0.250    0.92    0.00      0.013  O  I    |       |       |       |     0.14
 0.333    1.03    0.00      0.020  O   I   |       |       |       |     0.21
 0.417    1.15    0.00      0.027  O   I   |       |       |       |     0.29
 0.500    1.29    0.00      0.036  O    I  |       |       |       |     0.38
 0.583    1.27    0.00      0.044  O    I  |       |       |       |     0.47
 0.667    1.31    0.00      0.053  O    I  |       |       |       |     0.56
 0.750    1.39    0.00      0.063  O    I  |       |       |       |     0.66
 0.833    1.29    0.00      0.072  O    I  |       |       |       |     0.76
 0.917    1.24    0.00      0.081  O    I  |       |       |       |     0.85
 1.000    1.33    0.00      0.089  O    I  |       |       |       |     0.94
 1.083    1.55    0.00      0.099  O     I |       |       |       |     1.05
 1.167    1.69    0.00      0.110  O     I |       |       |       |     1.16
 1.250    1.72    0.00      0.122  O     I |       |       |       |     1.29
 1.333    1.64    0.00      0.134  O     I |       |       |       |     1.41
 1.417    1.82    0.00      0.146  O      I|       |       |       |     1.54
 1.500    2.03    0.00      0.159  O       I       |       |       |     1.68
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1.583    1.98    0.00      0.173  O       I       |       |       |     1.83
1.667    2.02    0.00      0.186  O       I       |       |       |     1.97
1.750    2.33    0.00      0.201  O       |I      |       |       |     2.13
1.833    2.46    0.00      0.218  O       |I      |       |       |     2.30
1.917    2.35    0.00      0.234  O       |I      |       |       |     2.48
2.000    2.33    0.00      0.250  O       |I      |       |       |     2.65
2.083    2.38    0.00      0.267  O       |I      |       |       |     2.82
2.167    2.97    0.00      0.285  O       |   I   |       |       |     3.00
2.250    3.93    0.00      0.309  O       |      I|       |       |     3.08
2.333    3.51    0.00      0.334  O       |     I |       |       |     3.17
2.417    4.94    0.00      0.364  O       |       |   I   |       |     3.26
2.500    6.79    0.00      0.404  O       |       |       | I     |     3.39
2.583    7.87    0.00      0.454  O       |       |       |      I|     3.56
2.667    6.98    0.00      0.505  O       |       |       |   I   |     3.73
2.750    3.83    0.00      0.543  O       |      I|       |       |     3.85
2.833    1.92    0.00      0.562  O      I|       |       |       |     3.91
2.917    1.51    0.00      0.574  O     I |       |       |       |     3.95
3.000    0.94    0.00      0.583  O  I    |       |       |       |     3.98
3.083    0.32    0.00      0.587  OI     |       |       |       |     3.99
3.167    0.06    0.00      0.588  O      |       |       |       |     4.00
3.250    0.01    0.00      0.588  O      |       |       |       |     4.00
3.333    0.00    0.00      0.588  O      |       |       |       |     4.00

 Remaining water in basin =    0.59 (Ac.Ft)

 ****************************HYDROGRAPH DATA****************************
               Number of intervals =    40
               Time interval =    5.0 (Min.)
               Maximum/Peak flow rate =        0.004 (CFS)
               Total volume =       0.001 (Ac.Ft)
        Status of hydrographs being held in storage
                     Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
        Peak (CFS)      0.000     0.000     0.000     0.000     0.000
        Vol (Ac.Ft)     0.000     0.000     0.000     0.000     0.000
 ***********************************************************************

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******************** HYDROGRAPH INFORMATION **********************

               From study/file name: pro10610.rte
*****************************HYDROGRAPH DATA*****************************
               Number of intervals =    75
               Time interval =    5.0 (Min.)
               Maximum/Peak flow rate =        7.143 (CFS)
               Total volume =       0.788 (Ac.Ft)
       Status of hydrographs being held in storage
                    Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
       Peak (CFS)      0.000     0.000     0.000     0.000     0.000
       Vol (Ac.Ft)     0.000     0.000     0.000     0.000     0.000
************************************************************************



++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        1.000 to Point/Station        2.000
**** RETARDING BASIN ROUTING ****
____________________________________________________________________________

User entry of depth-outflow-storage data
------------------------------------------------------------------------
Total number of inflow hydrograph intervals = 75
Hydrograph time unit =  5.000 (Min.)
Initial depth in storage basin =   0.00(Ft.)
------------------------------------------------------------------------
------------------------------------------------------------------------
Initial basin depth =   0.00 (Ft.)
Initial basin storage =      0.00 (Ac.Ft)
Initial basin outflow =   0.00 (CFS)
------------------------------------------------------------------------
------------------------------------------------------------------------
Depth vs. Storage and Depth vs. Discharge data:
 Basin Depth  Storage    Outflow   (S-O*dt/2)   (S+O*dt/2)
     (Ft.)    (Ac.Ft)    (CFS)     (Ac.Ft)    (Ac.Ft)
------------------------------------------------------------------------
   0.000      0.000      0.000      0.000        0.000
   1.000      0.095      0.001      0.095        0.095
   2.000      0.189      0.002      0.189        0.189
   3.000      0.284      0.003      0.284        0.284
   4.000      0.589      0.004      0.589        0.589
   5.000      0.789      0.154      0.788        0.790
   6.000      1.011      0.350      1.010        1.012
   7.000      1.258      0.618      1.256        1.260
   7.400      1.364      0.690      1.362        1.366
   8.000      1.530     50.310      1.357        1.703
------------------------------------------------------------------------
               Hydrograph Detention Basin Routing
------------------------------------------------------------------------

Graph values: 'I'= unit inflow; 'O'=outflow at time shown
------------------------------------------------------------------------
 Time   Inflow  Outflow    Storage                                    Depth
(Hours) (CFS)   (CFS)     (Ac.Ft) .0       1.8    3.57    5.36    7.14 (Ft.)
 0.083    0.27    0.00      0.001  OI      |       |       |       |     0.01
 0.167    0.55    0.00      0.004  O I     |       |       |       |     0.04
 0.250    0.63    0.00      0.008  O I     |       |       |       |     0.08
 0.333    0.65    0.00      0.012  O I     |       |       |       |     0.13
 0.417    0.65    0.00      0.017  O I     |       |       |       |     0.18
 0.500    0.71    0.00      0.021  O  I    |       |       |       |     0.22
 0.583    0.75    0.00      0.026  O  I    |       |       |       |     0.28
 0.667    0.76    0.00      0.032  O  I    |       |       |       |     0.33
 0.750    0.76    0.00      0.037  O  I    |       |       |       |     0.39
 0.833    0.76    0.00      0.042  O  I    |       |       |       |     0.44
 0.917    0.76    0.00      0.047  O  I    |       |       |       |     0.50
 1.000    0.81    0.00      0.053  O  I    |       |       |       |     0.55
 1.083    0.86    0.00      0.058  O  I    |       |       |       |     0.61
 1.167    0.86    0.00      0.064  O  I    |       |       |       |     0.68
 1.250    0.87    0.00      0.070  O  I    |       |       |       |     0.74
 1.333    0.87    0.00      0.076  O  I    |       |       |       |     0.80
 1.417    0.87    0.00      0.082  O  I    |       |       |       |     0.87
 1.500    0.87    0.00      0.088  O  I    |       |       |       |     0.93
```

1.583	0.87	0.00	0.094	o	I	|	|	|	0.99
1.667	0.87	0.00	0.100	o	I	|	|	|	1.05
1.750	0.87	0.00	0.106	o	I	|	|	|	1.12
1.833	0.87	0.00	0.112	o	I	|	|	|	1.18
1.917	0.87	0.00	0.118	o	I	|	|	|	1.24
2.000	0.92	0.00	0.124	o	I	|	|	|	1.31
2.083	0.91	0.00	0.130	o	I	|	|	|	1.38
2.167	0.93	0.00	0.137	o	I	|	|	|	1.44
2.250	0.97	0.00	0.143	o	I	|	|	|	1.51
2.333	0.97	0.00	0.150	o	I	|	|	|	1.58
2.417	0.98	0.00	0.157	o	I	|	|	|	1.66
2.500	0.98	0.00	0.163	o	I	|	|	|	1.73
2.583	0.98	0.00	0.170	o	I	|	|	|	1.80
2.667	0.98	0.00	0.177	o	I	|	|	|	1.87
2.750	1.03	0.00	0.184	o	I	|	|	|	1.94
2.833	1.07	0.00	0.191	o	I	|	|	|	2.02
2.917	1.08	0.00	0.198	o	I	|	|	|	2.10
3.000	1.08	0.00	0.206	o	I	|	|	|	2.18
3.083	1.08	0.00	0.213	o	I	|	|	|	2.26
3.167	1.14	0.00	0.221	o	I	|	|	|	2.34
3.250	1.18	0.00	0.229	o	I	|	|	|	2.42
3.333	1.19	0.00	0.237	o	I	|	|	|	2.51
3.417	1.25	0.00	0.245	o	I	|	|	|	2.59
3.500	1.35	0.00	0.254	o	I	|	|	|	2.69
3.583	1.45	0.00	0.264	o	I	|	|	|	2.79
3.667	1.51	0.00	0.274	o	I	|	|	|	2.90
3.750	1.57	0.00	0.285	o	I	|	|	|	3.00
3.833	1.62	0.00	0.296	o	I	|	|	|	3.04
3.917	1.68	0.00	0.307	o	I	|	|	|	3.08
4.000	1.72	0.00	0.319	o	I	|	|	|	3.11
4.083	1.79	0.00	0.331	o	I	|	|	|	3.15
4.167	1.89	0.00	0.343	o	I	|	|	|	3.19
4.250	1.99	0.00	0.357	o	I	|	|	|	3.24
4.333	2.10	0.00	0.371	o	I	|	|	|	3.28
4.417	2.21	0.00	0.386	o	I	|	|	|	3.33
4.500	2.26	0.00	0.401	o	I	|	|	|	3.38
4.583	2.33	0.00	0.417	o	I	|	|	|	3.44
4.667	2.43	0.00	0.433	o	I	|	|	|	3.49
4.750	2.54	0.00	0.450	o	I	|	|	|	3.54
4.833	2.59	0.00	0.468	o	I	|	|	|	3.60
4.917	2.65	0.00	0.486	o	I	|	|	|	3.66
5.000	2.76	0.00	0.504	o	I	|	|	|	3.72
5.083	3.22	0.00	0.525	o	I	|	|	|	3.79
5.167	4.00	0.00	0.550	o	I	|	|	|	3.87
5.250	4.68	0.00	0.580	o	I	|	|	|	3.97
5.333	5.24	0.02	0.614	o	I	|	|	|	4.12
5.417	5.95	0.05	0.652	o	I	|	|	|	4.32
5.500	7.14	0.08	0.697	o	I	|	|	|	4.54
5.583	4.84	0.12	0.737	o	I	|	|	|	4.74
5.667	2.03	0.13	0.760	o	I	|	|	|	4.86
5.750	1.04	0.14	0.770	o	I	|	|	|	4.90
5.833	0.65	0.14	0.774	o	I	|	|	|	4.93
5.917	0.45	0.15	0.777	o	I	|	|	|	4.94
6.000	0.29	0.15	0.779	o	I	|	|	|	4.95
6.083	0.12	0.15	0.779	o	|	|	|	|	4.95
6.167	0.02	0.15	0.779	o	|	|	|	|	4.95
6.250	0.00	0.15	0.778	o	|	|	|	|	4.94
6.333	0.00	0.14	0.777	o	|	|	|	|	4.94
6.417	0.00	0.14	0.776	o	|	|	|	|	4.93
6.500	0.00	0.14	0.775	o	|	|	|	|	4.93
6.583	0.00	0.14	0.774	o	|	|	|	|	4.92
6.667	0.00	0.14	0.773	o	|	|	|	|	4.92
6.750	0.00	0.14	0.772	o	|	|	|	|	4.91
6.833	0.00	0.14	0.771	o	|	|	|	|	4.91
6.917	0.00	0.14	0.770	o	|	|	|	|	4.90
7.000	0.00	0.14	0.769	o	|	|	|	|	4.90
7.083	0.00	0.14	0.768	o	|	|	|	|	4.90
7.167	0.00	0.14	0.767	o	|	|	|	|	4.89
7.250	0.00	0.14	0.766	o	|	|	|	|	4.89
7.333	0.00	0.14	0.765	o	|	|	|	|	4.88
7.417	0.00	0.14	0.764	o	|	|	|	|	4.88
7.500	0.00	0.13	0.763	o	|	|	|	|	4.87
7.583	0.00	0.13	0.762	o	|	|	|	|	4.87
7.667	0.00	0.13	0.761	o	|	|	|	|	4.86
7.750	0.00	0.13	0.761	o	|	|	|	|	4.86
7.833	0.00	0.13	0.760	o	|	|	|	|	4.85
7.917	0.00	0.13	0.759	o	|	|	|	|	4.85
8.000	0.00	0.13	0.758	o	|	|	|	|	4.84
8.083	0.00	0.13	0.757	o	|	|	|	|	4.84
8.167	0.00	0.13	0.756	o	|	|	|	|	4.84
8.250	0.00	0.13	0.755	o	|	|	|	|	4.83
8.333	0.00	0.13	0.754	o	|	|	|	|	4.83
8.417	0.00	0.13	0.753	o	|	|	|	|	4.82
8.500	0.00	0.13	0.753	o	|	|	|	|	4.82
8.583	0.00	0.13	0.752	o	|	|	|	|	4.81
8.667	0.00	0.13	0.751	o	|	|	|	|	4.81
8.750	0.00	0.12	0.750	o	|	|	|	|	4.80

8.833	0.00	0.12	0.749	o	|	|	|	|	4.80
8.917	0.00	0.12	0.748	o	|	|	|	|	4.80
9.000	0.00	0.12	0.747	o	|	|	|	|	4.79
9.083	0.00	0.12	0.747	o	|	|	|	|	4.79
9.167	0.00	0.12	0.746	o	|	|	|	|	4.78
9.250	0.00	0.12	0.745	o	|	|	|	|	4.78
9.333	0.00	0.12	0.744	o	|	|	|	|	4.78
9.417	0.00	0.12	0.743	o	|	|	|	|	4.77
9.500	0.00	0.12	0.742	o	|	|	|	|	4.77
9.583	0.00	0.12	0.742	o	|	|	|	|	4.76
9.667	0.00	0.12	0.741	o	|	|	|	|	4.76
9.750	0.00	0.12	0.740	o	|	|	|	|	4.75
9.833	0.00	0.12	0.739	o	|	|	|	|	4.75
9.917	0.00	0.12	0.738	o	|	|	|	|	4.75
10.000	0.00	0.12	0.738	o	|	|	|	|	4.74
10.083	0.00	0.11	0.737	o	|	|	|	|	4.74
10.167	0.00	0.11	0.736	o	|	|	|	|	4.73
10.250	0.00	0.11	0.735	o	|	|	|	|	4.73
10.333	0.00	0.11	0.734	o	|	|	|	|	4.73
10.417	0.00	0.11	0.734	o	|	|	|	|	4.72
10.500	0.00	0.11	0.733	o	|	|	|	|	4.72
10.583	0.00	0.11	0.732	o	|	|	|	|	4.72
10.667	0.00	0.11	0.731	o	|	|	|	|	4.71
10.750	0.00	0.11	0.731	o	|	|	|	|	4.71
10.833	0.00	0.11	0.730	o	|	|	|	|	4.70
10.917	0.00	0.11	0.729	o	|	|	|	|	4.70
11.000	0.00	0.11	0.728	o	|	|	|	|	4.70
11.083	0.00	0.11	0.728	o	|	|	|	|	4.69
11.167	0.00	0.11	0.727	o	|	|	|	|	4.69
11.250	0.00	0.11	0.726	o	|	|	|	|	4.69
11.333	0.00	0.11	0.725	o	|	|	|	|	4.68
11.417	0.00	0.11	0.725	o	|	|	|	|	4.68
11.500	0.00	0.11	0.724	o	|	|	|	|	4.67
11.583	0.00	0.10	0.723	o	|	|	|	|	4.67
11.667	0.00	0.10	0.722	o	|	|	|	|	4.67
11.750	0.00	0.10	0.722	o	|	|	|	|	4.66
11.833	0.00	0.10	0.721	o	|	|	|	|	4.66
11.917	0.00	0.10	0.720	o	|	|	|	|	4.66
12.000	0.00	0.10	0.720	o	|	|	|	|	4.65
12.083	0.00	0.10	0.719	o	|	|	|	|	4.65
12.167	0.00	0.10	0.718	o	|	|	|	|	4.65
12.250	0.00	0.10	0.718	o	|	|	|	|	4.64
12.333	0.00	0.10	0.717	o	|	|	|	|	4.64

Remaining water in basin = 0.72 (Ac.Ft)

**********HYDROGRAPH DATA**********

Number of intervals = 148
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 0.147 (CFS)
Total volume = 0.071 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

****

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                    FLOOD HYDROGRAPH ROUTING PROGRAM
              Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2004
                          Study date: 03/02/22

------------------------------------------------------------------------



Program License Serial Number 5006

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******************** HYDROGRAPH INFORMATION **********************

               From study/file name: PRO102410.rte
*****************************HYDROGRAPH DATA*****************************
               Number of intervals =   291
               Time interval =    5.0 (Min.)
               Maximum/Peak flow rate =        2.062 (CFS)
               Total volume =       1.253 (Ac.Ft)
       Status of hydrographs being held in storage
                    Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
       Peak (CFS)      0.000     0.000     0.000     0.000     0.000
       Vol (Ac.Ft)     0.000     0.000     0.000     0.000     0.000
************************************************************************



++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        1.000 to Point/Station        2.000
**** RETARDING BASIN ROUTING ****
____________________________________________________________________________

User entry of depth-outflow-storage data
------------------------------------------------------------------------
Total number of inflow hydrograph intervals = 291
Hydrograph time unit =  5.000 (Min.)
Initial depth in storage basin =   0.00(Ft.)
------------------------------------------------------------------------
------------------------------------------------------------------------
Initial basin depth =   0.00 (Ft.)
Initial basin storage =      0.00 (Ac.Ft)
Initial basin outflow =   0.00 (CFS)
------------------------------------------------------------------------
------------------------------------------------------------------------
Depth vs. Storage and Depth vs. Discharge data:
 Basin Depth  Storage    Outflow   (S-O*dt/2)   (S+O*dt/2)
     (Ft.)    (Ac.Ft)    (CFS)     (Ac.Ft)    (Ac.Ft)
------------------------------------------------------------------------
   0.000      0.000      0.000      0.000        0.000
   1.000      0.095      0.001      0.095        0.095
   2.000      0.189      0.002      0.189        0.189
   3.000      0.284      0.003      0.284        0.284
   4.000      0.589      0.004      0.589        0.589
   5.000      0.789      0.154      0.788        0.790
   6.000      1.011      0.350      1.010        1.012
   7.000      1.258      0.618      1.256        1.260
   7.400      1.364      0.690      1.362        1.366
   8.000      1.530     50.310      1.357        1.703
------------------------------------------------------------------------
               Hydrograph Detention Basin Routing
------------------------------------------------------------------------

Graph values: 'I'= unit inflow; 'O'=outflow at time shown
------------------------------------------------------------------------
  Time   Inflow  Outflow    Storage                                    Depth
 (Hours)  (CFS)   (CFS)     (Ac.Ft) .0       0.5    1.03    1.55    2.06 (Ft.)
  0.083    0.06    0.00      0.000  O       |       |       |       |     0.00
  0.167    0.11    0.00      0.001  OI      |       |       |       |     0.01
  0.250    0.12    0.00      0.002  OI      |       |       |       |     0.02
  0.333    0.15    0.00      0.003  O I     |       |       |       |     0.03
  0.417    0.18    0.00      0.004  O I     |       |       |       |     0.04
  0.500    0.18    0.00      0.005  O I     |       |       |       |     0.05
  0.583    0.18    0.00      0.006  O I     |       |       |       |     0.06
  0.667    0.18    0.00      0.007  O I     |       |       |       |     0.08
  0.750    0.18    0.00      0.009  O I     |       |       |       |     0.09
  0.833    0.21    0.00      0.010  O  I    |       |       |       |     0.11
  0.917    0.24    0.00      0.012  O  I    |       |       |       |     0.12
  1.000    0.24    0.00      0.013  O  I    |       |       |       |     0.14
  1.083    0.21    0.00      0.015  O  I    |       |       |       |     0.16
  1.167    0.19    0.00      0.016  O I     |       |       |       |     0.17
  1.250    0.18    0.00      0.017  O I     |       |       |       |     0.18
  1.333    0.18    0.00      0.019  O I     |       |       |       |     0.20
  1.417    0.18    0.00      0.020  O I     |       |       |       |     0.21
  1.500    0.18    0.00      0.021  O I     |       |       |       |     0.22
```

1.583	0.18	0.00	0.022	o I	|	|	|	0.24
1.667	0.18	0.00	0.024	o I	|	|	|	0.25
1.750	0.18	0.00	0.025	o I	|	|	|	0.26
1.833	0.21	0.00	0.026	o I	|	|	|	0.28
1.917	0.24	0.00	0.028	o I	|	|	|	0.29
2.000	0.24	0.00	0.029	o I	|	|	|	0.31
2.083	0.24	0.00	0.031	o I	|	|	|	0.33
2.167	0.24	0.00	0.033	o I	|	|	|	0.35
2.250	0.24	0.00	0.034	o I	|	|	|	0.36
2.333	0.24	0.00	0.036	o I	|	|	|	0.38
2.417	0.24	0.00	0.038	o I	|	|	|	0.40
2.500	0.24	0.00	0.039	o I	|	|	|	0.42
2.583	0.27	0.00	0.041	o I	|	|	|	0.43
2.667	0.30	0.00	0.043	o I	|	|	|	0.45
2.750	0.30	0.00	0.045	o I	|	|	|	0.48
2.833	0.30	0.00	0.047	o I	|	|	|	0.50
2.917	0.30	0.00	0.049	o I	|	|	|	0.52
3.000	0.30	0.00	0.051	o I	|	|	|	0.54
3.083	0.30	0.00	0.054	o I	|	|	|	0.56
3.167	0.30	0.00	0.056	o I	|	|	|	0.59
3.250	0.30	0.00	0.058	o I	|	|	|	0.61
3.333	0.30	0.00	0.060	o I	|	|	|	0.63
3.417	0.30	0.00	0.062	o I	|	|	|	0.65
3.500	0.30	0.00	0.064	o I	|	|	|	0.67
3.583	0.30	0.00	0.066	o I	|	|	|	0.70
3.667	0.30	0.00	0.068	o I	|	|	|	0.72
3.750	0.30	0.00	0.070	o I	|	|	|	0.74
3.833	0.33	0.00	0.072	o I	|	|	|	0.76
3.917	0.36	0.00	0.075	o I	|	|	|	0.79
4.000	0.36	0.00	0.077	o I	|	|	|	0.81
4.083	0.36	0.00	0.080	o I	|	|	|	0.84
4.167	0.36	0.00	0.082	o I	|	|	|	0.87
4.250	0.36	0.00	0.085	o I	|	|	|	0.89
4.333	0.39	0.00	0.087	o I	|	|	|	0.92
4.417	0.42	0.00	0.090	o I	|	|	|	0.95
4.500	0.42	0.00	0.093	o I	|	|	|	0.98
4.583	0.42	0.00	0.096	o I	|	|	|	1.01
4.667	0.42	0.00	0.099	o I	|	|	|	1.04
4.750	0.42	0.00	0.102	o I	|	|	|	1.07
4.833	0.46	0.00	0.105	o I	|	|	|	1.10
4.917	0.48	0.00	0.108	o I	|	|	|	1.14
5.000	0.48	0.00	0.111	o I	|	|	|	1.17
5.083	0.42	0.00	0.114	o I	|	|	|	1.21
5.167	0.37	0.00	0.117	o I	|	|	|	1.24
5.250	0.37	0.00	0.120	o I	|	|	|	1.26
5.333	0.39	0.00	0.122	o I	|	|	|	1.29
5.417	0.42	0.00	0.125	o I	|	|	|	1.32
5.500	0.42	0.00	0.128	o I	|	|	|	1.35
5.583	0.46	0.00	0.131	o I	|	|	|	1.38
5.667	0.48	0.00	0.134	o I	|	|	|	1.42
5.750	0.48	0.00	0.138	o I	|	|	|	1.45
5.833	0.49	0.00	0.141	o I	|	|	|	1.49
5.917	0.49	0.00	0.144	o I	|	|	|	1.52
6.000	0.49	0.00	0.148	o I	|	|	|	1.56
6.083	0.52	0.00	0.151	o I	|	|	|	1.60
6.167	0.54	0.00	0.155	o I	|	|	|	1.63
6.250	0.54	0.00	0.158	o I	|	|	|	1.67
6.333	0.55	0.00	0.162	o I	|	|	|	1.71
6.417	0.55	0.00	0.166	o I	|	|	|	1.75
6.500	0.55	0.00	0.170	o I	|	|	|	1.79
6.583	0.58	0.00	0.173	o I	|	|	|	1.83
6.667	0.60	0.00	0.177	o I	|	|	|	1.88
6.750	0.61	0.00	0.182	o I	|	|	|	1.92
6.833	0.61	0.00	0.186	o I	|	|	|	1.97
6.917	0.61	0.00	0.190	o I	|	|	|	2.01
7.000	0.61	0.00	0.194	o I	|	|	|	2.05
7.083	0.61	0.00	0.198	o I	|	|	|	2.10
7.167	0.61	0.00	0.202	o I	|	|	|	2.14
7.250	0.61	0.00	0.207	o I	|	|	|	2.19
7.333	0.64	0.00	0.211	o I	|	|	|	2.23
7.417	0.66	0.00	0.215	o I	|	|	|	2.28
7.500	0.67	0.00	0.220	o I	|	|	|	2.32
7.583	0.70	0.00	0.225	o I	|	|	|	2.37
7.667	0.72	0.00	0.229	o I	|	|	|	2.43
7.750	0.73	0.00	0.234	o I	|	|	|	2.48
7.833	0.76	0.00	0.239	o I	|	|	|	2.53
7.917	0.78	0.00	0.245	o I	|	|	|	2.59
8.000	0.79	0.00	0.250	o I	|	|	|	2.64
8.083	0.85	0.00	0.256	o I	|	|	|	2.70
8.167	0.90	0.00	0.262	o I	|	|	|	2.77
8.250	0.91	0.00	0.268	o I	|	|	|	2.83
8.333	0.91	0.00	0.274	o I	|	|	|	2.90
8.417	0.91	0.00	0.280	o I	|	|	|	2.96
8.500	0.91	0.00	0.287	o I	|	|	|	3.01
8.583	0.94	0.00	0.293	o I	|	|	|	3.03
8.667	0.96	0.00	0.300	o I	|	|	|	3.05
8.750	0.97	0.00	0.306	o I	|	|	|	3.07

8.833	1.00	0.00	0.313	o	|	I|	|	3.10
8.917	1.03	0.00	0.320	o	|	I|	|	3.12
9.000	1.03	0.00	0.327	o	|	I|	|	3.14
9.083	1.09	0.00	0.334	o	|	I	|	3.16
9.167	1.14	0.00	0.342	o	|	|I	|	3.19
9.250	1.15	0.00	0.350	o	|	|I	|	3.22
9.333	1.18	0.00	0.358	o	|	| I	|	3.24
9.417	1.21	0.00	0.366	o	|	| I	|	3.27
9.500	1.21	0.00	0.374	o	|	| I	|	3.30
9.583	1.24	0.00	0.383	o	|	| I	|	3.32
9.667	1.27	0.00	0.391	o	|	| I	|	3.35
9.750	1.27	0.00	0.400	o	|	| I	|	3.38
9.833	1.30	0.00	0.409	o	|	| I	|	3.41
9.917	1.33	0.00	0.418	o	|	| I	|	3.44
10.000	1.33	0.00	0.427	o	|	| I	|	3.47
10.083	1.12	0.00	0.436	o	|	|I	|	3.50
10.167	0.95	0.00	0.443	o	| I	|	|	3.52
10.250	0.92	0.00	0.449	o	| I	|	|	3.54
10.333	0.91	0.00	0.455	o	| I	|	|	3.56
10.417	0.91	0.00	0.462	o	| I	|	|	3.58
10.500	0.91	0.00	0.468	o	| I	|	|	3.60
10.583	1.06	0.00	0.475	o	|	I	|	3.62
10.667	1.18	0.00	0.482	o	|	| I	|	3.65
10.750	1.21	0.00	0.490	o	|	| I	|	3.68
10.833	1.21	0.00	0.499	o	|	| I	|	3.70
10.917	1.21	0.00	0.507	o	|	| I	|	3.73
11.000	1.21	0.00	0.515	o	|	| I	|	3.76
11.083	1.18	0.00	0.524	o	|	| I	|	3.79
11.167	1.16	0.00	0.532	o	|	|I	|	3.81
11.250	1.15	0.00	0.540	o	|	|I	|	3.84
11.333	1.15	0.00	0.548	o	|	|I	|	3.86
11.417	1.15	0.00	0.555	o	|	|I	|	3.89
11.500	1.15	0.00	0.563	o	|	|I	|	3.92
11.583	1.09	0.00	0.571	o	|	I	|	3.94
11.667	1.04	0.00	0.578	o	|	I	|	3.97
11.750	1.03	0.00	0.585	o	|	I	|	3.99
11.833	1.06	0.01	0.593	o	|	I	|	4.02
11.917	1.09	0.01	0.600	o	|	I	|	4.05
12.000	1.09	0.02	0.607	o	|	I	|	4.09
12.083	1.31	0.02	0.615	o	|	| I	|	4.13
12.167	1.48	0.03	0.625	o	|	| I	|	4.18
12.250	1.51	0.04	0.635	o	|	| I|	|	4.23
12.333	1.55	0.05	0.645	o	|	| I	|	4.28
12.417	1.57	0.05	0.656	o	|	| I	|	4.33
12.500	1.58	0.06	0.666	o	|	| I	|	4.38
12.583	1.64	0.07	0.677	|o	|	| |I	|	4.44
12.667	1.69	0.08	0.688	|o	|	| | I	|	4.49
12.750	1.70	0.09	0.699	|o	|	| | I	|	4.55
12.833	1.73	0.09	0.710	|o	|	| | I	|	4.60
12.917	1.75	0.10	0.721	|o	|	| | | I	|	4.66
13.000	1.76	0.11	0.732	|o	|	| | | I	|	4.72
13.083	1.91	0.12	0.744	|o	|	| | | | I	|	4.78
13.167	2.03	0.13	0.757	| o	|	| | | | | I|	4.84
13.250	2.06	0.14	0.770	| o	|	| | | | | I|	4.91
13.333	2.06	0.15	0.783	| o	|	| | | | | | I	4.97
13.417	2.06	0.16	0.796	| o	|	| | | | | | I	5.03
13.500	2.06	0.17	0.809	| o	|	| | | | | | I	5.09
13.583	1.72	0.18	0.821	| o	|	| | | | I	|	5.15
13.667	1.46	0.19	0.831	| o	|	| | | I	|	5.19
13.750	1.41	0.20	0.839	| o	|	| | I	|	5.23
13.833	1.39	0.21	0.848	| o	|	| | I	|	5.26
13.917	1.39	0.21	0.856	| o	|	| | I	|	5.30
14.000	1.39	0.22	0.864	| o	|	| | I	|	5.34
14.083	1.52	0.23	0.873	| o	|	| | I|	|	5.38
14.167	1.61	0.24	0.882	| o	|	| | |I	|	5.42
14.250	1.63	0.24	0.891	| o	|	| | |I	|	5.46
14.333	1.61	0.25	0.901	| o	|	| | I	|	5.50
14.417	1.58	0.26	0.910	| o	|	| | I	|	5.54
14.500	1.58	0.27	0.919	| o	|	| | I	|	5.59
14.583	1.58	0.28	0.928	| o	|	| | I	|	5.63
14.667	1.58	0.28	0.937	| o	|	| | I	|	5.67
14.750	1.58	0.29	0.946	| o	|	| | I	|	5.71
14.833	1.55	0.30	0.954	| o	|	| | I|	|	5.75
14.917	1.52	0.31	0.963	| o	|	| | I|	|	5.78
15.000	1.52	0.31	0.971	| o	|	| | I|	|	5.82
15.083	1.49	0.32	0.979	| o	|	| | I|	|	5.86
15.167	1.46	0.33	0.987	| o	|	| | I	|	5.89
15.250	1.46	0.34	0.995	| o	|	| | I	|	5.93
15.333	1.42	0.34	1.003	| o	|	| | I	|	5.96
15.417	1.40	0.35	1.010	| o	|	| | I	|	6.00
15.500	1.40	0.36	1.017	| o	|	| | I	|	6.02
15.583	1.27	0.36	1.024	| o	|	| I	|	6.05
15.667	1.17	0.37	1.030	| o	|	| I	|	6.08
15.750	1.16	0.38	1.035	| o	|	|I	|	6.10
15.833	1.15	0.38	1.041	| o	|	|I	|	6.12
15.917	1.15	0.39	1.046	| o |	|I	|	6.14
16.000	1.15	0.39	1.051	| o |	|I	|	6.16

16.083	0.69	0.40	1.055	| O | I | | | 6.18
16.167	0.33	0.40	1.055	| IO | | | | 6.18
16.250	0.26	0.40	1.055	| I O | | | | 6.18
16.333	0.24	0.40	1.054	| I O | | | | 6.17
16.417	0.24	0.40	1.053	| I O | | | | 6.17
16.500	0.24	0.39	1.052	| I O | | | | 6.16
16.583	0.21	0.39	1.050	| I O | | | | 6.16
16.667	0.19	0.39	1.049	| I O | | | | 6.15
16.750	0.18	0.39	1.048	| I O | | | | 6.15
16.833	0.18	0.39	1.046	| I O | | | | 6.14
16.917	0.18	0.39	1.045	| I O | | | | 6.14
17.000	0.18	0.39	1.044	| I O | | | | 6.13
17.083	0.24	0.38	1.042	| I O | | | | 6.13
17.167	0.29	0.38	1.042	| IO | | | | 6.12
17.250	0.30	0.38	1.041	| IO | | | | 6.12
17.333	0.30	0.38	1.040	| IO | | | | 6.12
17.417	0.30	0.38	1.040	| IO | | | | 6.12
17.500	0.30	0.38	1.039	| IO | | | | 6.11
17.583	0.30	0.38	1.039	| IO | | | | 6.11
17.667	0.30	0.38	1.038	| IO | | | | 6.11
17.750	0.30	0.38	1.038	| IO | | | | 6.11
17.833	0.27	0.38	1.037	| IO | | | | 6.11
17.917	0.25	0.38	1.036	| I O | | | | 6.10
18.000	0.24	0.38	1.035	| I O | | | | 6.10
18.083	0.24	0.38	1.034	| I O | | | | 6.09
18.167	0.24	0.37	1.034	| I O | | | | 6.09
18.250	0.24	0.37	1.033	| I O | | | | 6.09
18.333	0.24	0.37	1.032	| I O | | | | 6.08
18.417	0.24	0.37	1.031	| I O | | | | 6.08
18.500	0.24	0.37	1.030	| I O | | | | 6.08
18.583	0.21	0.37	1.029	| I O | | | | 6.07
18.667	0.19	0.37	1.028	| I O | | | | 6.07
18.750	0.18	0.37	1.027	| I O | | | | 6.06
18.833	0.15	0.37	1.025	| I O | | | | 6.06
18.917	0.13	0.36	1.024	| I O | | | | 6.05
19.000	0.12	0.36	1.022	| I O | | | | 6.04
19.083	0.15	0.36	1.020	| I O | | | | 6.04
19.167	0.18	0.36	1.019	| I O | | | | 6.03
19.250	0.18	0.36	1.018	| I O | | | | 6.03
19.333	0.21	0.36	1.017	| I O | | | | 6.02
19.417	0.24	0.36	1.016	| I O | | | | 6.02
19.500	0.24	0.35	1.015	| I O | | | | 6.02
19.583	0.21	0.35	1.014	| I O | | | | 6.01
19.667	0.19	0.35	1.013	| I O | | | | 6.01
19.750	0.18	0.35	1.012	| I O | | | | 6.00
19.833	0.15	0.35	1.011	| I O | | | | 6.00
19.917	0.13	0.35	1.009	| I O | | | | 5.99
20.000	0.12	0.35	1.008	| I O | | | | 5.99
20.083	0.15	0.35	1.006	| I O | | | | 5.98
20.167	0.18	0.34	1.005	| I O | | | | 5.97
20.250	0.18	0.34	1.004	| I O | | | | 5.97
20.333	0.18	0.34	1.003	| I O | | | | 5.96
20.417	0.18	0.34	1.002	| I O | | | | 5.96
20.500	0.18	0.34	1.001	| I O | | | | 5.95
20.583	0.18	0.34	1.000	| I O | | | | 5.95
20.667	0.18	0.34	0.998	| I O | | | | 5.94
20.750	0.18	0.34	0.997	| I O | | | | 5.94
20.833	0.15	0.34	0.996	| I O | | | | 5.93
20.917	0.13	0.34	0.995	| I O | | | | 5.93
21.000	0.12	0.33	0.993	| I O | | | | 5.92
21.083	0.15	0.33	0.992	| I O | | | | 5.91
21.167	0.18	0.33	0.991	| I O | | | | 5.91
21.250	0.18	0.33	0.990	| I O | | | | 5.90
21.333	0.15	0.33	0.989	| I O | | | | 5.90
21.417	0.13	0.33	0.987	| I O | | | | 5.89
21.500	0.12	0.33	0.986	| I O | | | | 5.89
21.583	0.15	0.33	0.985	| I O | | | | 5.88
21.667	0.18	0.33	0.984	| I O | | | | 5.88
21.750	0.18	0.32	0.983	| I O | | | | 5.87
21.833	0.15	0.32	0.981	| I O | | | | 5.87
21.917	0.13	0.32	0.980	| I O | | | | 5.86
22.000	0.12	0.32	0.979	| I O | | | | 5.85
22.083	0.15	0.32	0.978	| I O | | | | 5.85
22.167	0.18	0.32	0.976	| I O | | | | 5.84
22.250	0.18	0.32	0.975	| I O | | | | 5.84
22.333	0.15	0.32	0.974	| I O | | | | 5.84
22.417	0.13	0.32	0.973	| I O | | | | 5.83
22.500	0.12	0.32	0.972	| I O | | | | 5.82
22.583	0.12	0.31	0.971	| I O | | | | 5.82
22.667	0.12	0.31	0.969	| I O | | | | 5.81
22.750	0.12	0.31	0.968	| I O | | | | 5.81
22.833	0.12	0.31	0.967	| I O | | | | 5.80
22.917	0.12	0.31	0.965	| I O | | | | 5.79
23.000	0.12	0.31	0.964	| I O | | | | 5.79
23.083	0.12	0.31	0.963	| I O | | | | 5.78
23.167	0.12	0.31	0.961	| I O | | | | 5.78
23.250	0.12	0.31	0.960	| I O | | | | 5.77

23.333	0.12	0.30	0.959	|I O	|	|	|	5.77
23.417	0.12	0.30	0.958	|I O	|	|	|	5.76
23.500	0.12	0.30	0.956	|I O	|	|	|	5.75
23.583	0.12	0.30	0.955	|I O	|	|	|	5.75
23.667	0.12	0.30	0.954	|I O	|	|	|	5.74
23.750	0.12	0.30	0.953	|I O	|	|	|	5.74
23.833	0.12	0.30	0.951	|I O	|	|	|	5.73
23.917	0.12	0.30	0.950	|I O	|	|	|	5.73
24.000	0.12	0.30	0.949	|I O	|	|	|	5.72
24.083	0.06	0.29	0.948	I O	|	|	|	5.71
24.167	0.01	0.29	0.946	I O	|	|	|	5.71
24.250	0.00	0.29	0.944	I O	|	|	|	5.70
24.333	0.00	0.29	0.942	I O	|	|	|	5.69
24.417	0.00	0.29	0.940	I O	|	|	|	5.68
24.500	0.00	0.29	0.938	I O	|	|	|	5.67
24.583	0.00	0.28	0.936	I O	|	|	|	5.66
24.667	0.00	0.28	0.934	I O	|	|	|	5.65
24.750	0.00	0.28	0.932	I O	|	|	|	5.64
24.833	0.00	0.28	0.930	I O	|	|	|	5.64
24.917	0.00	0.28	0.928	I O	|	|	|	5.63
25.000	0.00	0.28	0.926	I O	|	|	|	5.62
25.083	0.00	0.27	0.925	I O	|	|	|	5.61
25.167	0.00	0.27	0.923	I O	|	|	|	5.60
25.250	0.00	0.27	0.921	I O	|	|	|	5.59
25.333	0.00	0.27	0.919	I O	|	|	|	5.59
25.417	0.00	0.27	0.917	I O	|	|	|	5.58
25.500	0.00	0.27	0.915	I O	|	|	|	5.57
25.583	0.00	0.26	0.913	I O	|	|	|	5.56
25.667	0.00	0.26	0.912	I O	|	|	|	5.55
25.750	0.00	0.26	0.910	I O	|	|	|	5.54
25.833	0.00	0.26	0.908	I O	|	|	|	5.54
25.917	0.00	0.26	0.906	I O	|	|	|	5.53
26.000	0.00	0.26	0.904	I O	|	|	|	5.52
26.083	0.00	0.25	0.903	I O	|	|	|	5.51
26.167	0.00	0.25	0.901	I O	|	|	|	5.50
26.250	0.00	0.25	0.899	I O	|	|	|	5.50
26.333	0.00	0.25	0.898	I O	|	|	|	5.49
26.417	0.00	0.25	0.896	I O	|	|	|	5.48
26.500	0.00	0.25	0.894	I O	|	|	|	5.47
26.583	0.00	0.25	0.892	I O	|	|	|	5.47
26.667	0.00	0.24	0.891	I O	|	|	|	5.46
26.750	0.00	0.24	0.889	I O	|	|	|	5.45
26.833	0.00	0.24	0.887	I O	|	|	|	5.44
26.917	0.00	0.24	0.886	I O	|	|	|	5.44
27.000	0.00	0.24	0.884	I O	|	|	|	5.43
27.083	0.00	0.24	0.882	I O	|	|	|	5.42
27.167	0.00	0.24	0.881	I O	|	|	|	5.41
27.250	0.00	0.23	0.879	I O	|	|	|	5.41
27.333	0.00	0.23	0.878	I O	|	|	|	5.40
27.417	0.00	0.23	0.876	I O	|	|	|	5.39
27.500	0.00	0.23	0.874	I O	|	|	|	5.38
27.583	0.00	0.23	0.873	I O	|	|	|	5.38
27.667	0.00	0.23	0.871	I O	|	|	|	5.37
27.750	0.00	0.23	0.870	I O	|	|	|	5.36
27.833	0.00	0.22	0.868	I O	|	|	|	5.36
27.917	0.00	0.22	0.867	I O	|	|	|	5.35
28.000	0.00	0.22	0.865	I O	|	|	|	5.34
28.083	0.00	0.22	0.864	I O	|	|	|	5.34
28.167	0.00	0.22	0.862	I O	|	|	|	5.33
28.250	0.00	0.22	0.861	I O	|	|	|	5.32
28.333	0.00	0.22	0.859	I O	|	|	|	5.32
28.417	0.00	0.21	0.858	I O	|	|	|	5.31
28.500	0.00	0.21	0.856	I O	|	|	|	5.30
28.583	0.00	0.21	0.855	I O	|	|	|	5.30
28.667	0.00	0.21	0.853	I O	|	|	|	5.29
28.750	0.00	0.21	0.852	I O	|	|	|	5.28
28.833	0.00	0.21	0.850	I O	|	|	|	5.28
28.917	0.00	0.21	0.849	I O	|	|	|	5.27
29.000	0.00	0.21	0.847	I O	|	|	|	5.26
29.083	0.00	0.20	0.846	I O	|	|	|	5.26
29.167	0.00	0.20	0.845	I O	|	|	|	5.25
29.250	0.00	0.20	0.843	I O	|	|	|	5.24
29.333	0.00	0.20	0.842	I O	|	|	|	5.24
29.417	0.00	0.20	0.841	I O	|	|	|	5.23
29.500	0.00	0.20	0.839	I O	|	|	|	5.23
29.583	0.00	0.20	0.838	I O	|	|	|	5.22
29.667	0.00	0.20	0.836	I O	|	|	|	5.21
29.750	0.00	0.19	0.835	I O	|	|	|	5.21
29.833	0.00	0.19	0.834	I O	|	|	|	5.20
29.917	0.00	0.19	0.832	I O	|	|	|	5.20
30.000	0.00	0.19	0.831	I O	|	|	|	5.19
30.083	0.00	0.19	0.830	I O	|	|	|	5.18
30.167	0.00	0.19	0.828	I O	|	|	|	5.18
30.250	0.00	0.19	0.827	I O	|	|	|	5.17
30.333	0.00	0.19	0.826	I O	|	|	|	5.17
30.417	0.00	0.19	0.825	I O	|	|	|	5.16
30.500	0.00	0.18	0.823	I O	|	|	|	5.15

30.583	0.00	0.18	0.822	I O	|	|	|	5.15
30.667	0.00	0.18	0.821	I O	|	|	|	5.14
30.750	0.00	0.18	0.820	I O	|	|	|	5.14
30.833	0.00	0.18	0.818	I O	|	|	|	5.13
30.917	0.00	0.18	0.817	I O	|	|	|	5.13
31.000	0.00	0.18	0.816	I O	|	|	|	5.12
31.083	0.00	0.18	0.815	I O	|	|	|	5.12
31.167	0.00	0.18	0.813	I O	|	|	|	5.11
31.250	0.00	0.17	0.812	I O	|	|	|	5.10
31.333	0.00	0.17	0.811	I O	|	|	|	5.10
31.417	0.00	0.17	0.810	I O	|	|	|	5.09
31.500	0.00	0.17	0.809	I O	|	|	|	5.09
31.583	0.00	0.17	0.807	I O	|	|	|	5.08
31.667	0.00	0.17	0.806	I O	|	|	|	5.08
31.750	0.00	0.17	0.805	I O	|	|	|	5.07
31.833	0.00	0.17	0.804	I O	|	|	|	5.07
31.917	0.00	0.17	0.803	I O	|	|	|	5.06
32.000	0.00	0.17	0.802	I O	|	|	|	5.06
32.083	0.00	0.16	0.801	I O	|	|	|	5.05
32.167	0.00	0.16	0.799	I O	|	|	|	5.05
32.250	0.00	0.16	0.798	I O	|	|	|	5.04
32.333	0.00	0.16	0.797	I O	|	|	|	5.04
32.417	0.00	0.16	0.796	I O	|	|	|	5.03
32.500	0.00	0.16	0.795	I O	|	|	|	5.03
32.583	0.00	0.16	0.794	I O	|	|	|	5.02
32.667	0.00	0.16	0.793	I O	|	|	|	5.02
32.750	0.00	0.16	0.792	I O	|	|	|	5.01
32.833	0.00	0.16	0.791	I O	|	|	|	5.01
32.917	0.00	0.15	0.790	I O	|	|	|	5.00
33.000	0.00	0.15	0.789	I O	|	|	|	5.00
33.083	0.00	0.15	0.787	I O	|	|	|	4.99
33.167	0.00	0.15	0.786	I O	|	|	|	4.99
33.250	0.00	0.15	0.785	I O	|	|	|	4.98
33.333	0.00	0.15	0.784	I O	|	|	|	4.98
33.417	0.00	0.15	0.783	I O	|	|	|	4.97
33.500	0.00	0.15	0.782	I O	|	|	|	4.97
33.583	0.00	0.15	0.781	I O	|	|	|	4.96
33.667	0.00	0.15	0.780	I O	|	|	|	4.96
33.750	0.00	0.15	0.779	I O	|	|	|	4.95
33.833	0.00	0.15	0.778	I O	|	|	|	4.95
33.917	0.00	0.15	0.777	I O	|	|	|	4.94
34.000	0.00	0.14	0.776	I O	|	|	|	4.94
34.083	0.00	0.14	0.775	I O	|	|	|	4.93
34.167	0.00	0.14	0.774	I O	|	|	|	4.93
34.250	0.00	0.14	0.773	I O	|	|	|	4.92
34.333	0.00	0.14	0.772	I O	|	|	|	4.92
34.417	0.00	0.14	0.771	I O	|	|	|	4.91
34.500	0.00	0.14	0.770	I O	|	|	|	4.91
34.583	0.00	0.14	0.769	I O	|	|	|	4.90
34.667	0.00	0.14	0.768	I O	|	|	|	4.90
34.750	0.00	0.14	0.767	I O	|	|	|	4.89
34.833	0.00	0.14	0.767	I O	|	|	|	4.89
34.917	0.00	0.14	0.766	I O	|	|	|	4.88
35.000	0.00	0.14	0.765	I O	|	|	|	4.88
35.083	0.00	0.14	0.764	I O	|	|	|	4.87
35.167	0.00	0.13	0.763	I O	|	|	|	4.87
35.250	0.00	0.13	0.762	I O	|	|	|	4.86
35.333	0.00	0.13	0.761	I O	|	|	|	4.86
35.417	0.00	0.13	0.760	I O	|	|	|	4.86
35.500	0.00	0.13	0.759	I O	|	|	|	4.85
35.583	0.00	0.13	0.758	I O	|	|	|	4.85
35.667	0.00	0.13	0.757	I O	|	|	|	4.84
35.750	0.00	0.13	0.756	I O	|	|	|	4.84
35.833	0.00	0.13	0.756	I O	|	|	|	4.83
35.917	0.00	0.13	0.755	IO	|	|	|	4.83
36.000	0.00	0.13	0.754	IO	|	|	|	4.82
36.083	0.00	0.13	0.753	IO	|	|	|	4.82
36.167	0.00	0.13	0.752	IO	|	|	|	4.82
36.250	0.00	0.13	0.751	IO	|	|	|	4.81
36.333	0.00	0.12	0.750	IO	|	|	|	4.81
36.417	0.00	0.12	0.749	IO	|	|	|	4.80
36.500	0.00	0.12	0.749	IO	|	|	|	4.80
36.583	0.00	0.12	0.748	IO	|	|	|	4.79
36.667	0.00	0.12	0.747	IO	|	|	|	4.79
36.750	0.00	0.12	0.746	IO	|	|	|	4.79
36.833	0.00	0.12	0.745	IO	|	|	|	4.78
36.917	0.00	0.12	0.744	IO	|	|	|	4.78
37.000	0.00	0.12	0.744	IO	|	|	|	4.77
37.083	0.00	0.12	0.743	IO	|	|	|	4.77
37.167	0.00	0.12	0.742	IO	|	|	|	4.76
37.250	0.00	0.12	0.741	IO	|	|	|	4.76
37.333	0.00	0.12	0.740	IO	|	|	|	4.76
37.417	0.00	0.12	0.739	IO	|	|	|	4.75
37.500	0.00	0.12	0.739	IO	|	|	|	4.75
37.583	0.00	0.12	0.738	IO	|	|	|	4.74
37.667	0.00	0.12	0.737	IO	|	|	|	4.74
37.750	0.00	0.11	0.736	IO	|	|	|	4.74

37.833	0.00	0.11	0.735	IO	|	|	|	|	4.73
37.917	0.00	0.11	0.735	IO	|	|	|	|	4.73
38.000	0.00	0.11	0.734	IO	|	|	|	|	4.72
38.083	0.00	0.11	0.733	IO	|	|	|	|	4.72
38.167	0.00	0.11	0.732	IO	|	|	|	|	4.72
38.250	0.00	0.11	0.732	IO	|	|	|	|	4.71
38.333	0.00	0.11	0.731	IO	|	|	|	|	4.71
38.417	0.00	0.11	0.730	IO	|	|	|	|	4.71
38.500	0.00	0.11	0.729	IO	|	|	|	|	4.70
38.583	0.00	0.11	0.729	IO	|	|	|	|	4.70
38.667	0.00	0.11	0.728	IO	|	|	|	|	4.69
38.750	0.00	0.11	0.727	IO	|	|	|	|	4.69
38.833	0.00	0.11	0.726	IO	|	|	|	|	4.69
38.917	0.00	0.11	0.726	IO	|	|	|	|	4.68
39.000	0.00	0.11	0.725	IO	|	|	|	|	4.68
39.083	0.00	0.11	0.724	IO	|	|	|	|	4.68
39.167	0.00	0.10	0.723	IO	|	|	|	|	4.67
39.250	0.00	0.10	0.723	IO	|	|	|	|	4.67
39.333	0.00	0.10	0.722	IO	|	|	|	|	4.67
39.417	0.00	0.10	0.721	IO	|	|	|	|	4.66
39.500	0.00	0.10	0.721	IO	|	|	|	|	4.66
39.583	0.00	0.10	0.720	IO	|	|	|	|	4.65
39.667	0.00	0.10	0.719	IO	|	|	|	|	4.65
39.750	0.00	0.10	0.718	IO	|	|	|	|	4.65
39.833	0.00	0.10	0.718	IO	|	|	|	|	4.64
39.917	0.00	0.10	0.717	IO	|	|	|	|	4.64
40.000	0.00	0.10	0.716	IO	|	|	|	|	4.64

Remaining water in basin = 0.72 (Ac.Ft)

**********HYDROGRAPH DATA**********

Number of intervals = 480
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 0.398 (CFS)
Total volume = 0.537 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

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                         Study date: 03/02/22

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********************* HYDROGRAPH INFORMATION **********************

                From study/file name: PRO1001100.rte
****************************HYDROGRAPH DATA*****************************
                Number of intervals =    15
                Time interval =    5.0 (Min.)
                Maximum/Peak flow rate =       22.938 (CFS)
                Total volume =       0.686 (Ac.Ft)
        Status of hydrographs being held in storage
                   Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
        Peak (CFS)      0.000     0.000     0.000     0.000     0.000
        Vol (Ac.Ft)     0.000     0.000     0.000     0.000     0.000
************************************************************************



++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        1.000 to Point/Station        2.000
**** RETARDING BASIN ROUTING ****
________________________________________________________________________

User entry of depth-outflow-storage data
------------------------------------------------------------------------
Total number of inflow hydrograph intervals = 15
Hydrograph time unit =  5.000 (Min.)
Initial depth in storage basin =   0.00(Ft.)
------------------------------------------------------------------------
------------------------------------------------------------------------
Initial basin depth =   0.00 (Ft.)
Initial basin storage =      0.00 (Ac.Ft)
Initial basin outflow =   0.00 (CFS)
------------------------------------------------------------------------
------------------------------------------------------------------------
Depth vs. Storage and Depth vs. Discharge data:
 Basin Depth  Storage    Outflow   (S-O*dt/2)   (S+O*dt/2)
     (Ft.)    (Ac.Ft)    (CFS)     (Ac.Ft)    (Ac.Ft)
------------------------------------------------------------------------
   0.000      0.000      0.000      0.000        0.000
   1.000      0.095      0.001      0.095        0.095
   2.000      0.189      0.002      0.189        0.189
   3.000      0.284      0.003      0.284        0.284
   4.000      0.589      0.004      0.589        0.589
   5.000      0.789      0.154      0.788        0.790
   6.000      1.011      0.350      1.010        1.012
   7.000      1.258      0.618      1.256        1.260
   7.400      1.364      0.690      1.362        1.366
   8.000      1.530     50.310      1.357        1.703
------------------------------------------------------------------------
               Hydrograph Detention Basin Routing
------------------------------------------------------------------------

Graph values: 'I'= unit inflow; 'O'=outflow at time shown
------------------------------------------------------------------------
 Time   Inflow  Outflow    Storage                                    Depth
(Hours)  (CFS)   (CFS)     (Ac.Ft) .0       5.7   11.47   17.20   22.94 (Ft.)
 0.083    1.67    0.00      0.006  O I     |       |       |       |     0.06
 0.167    3.06    0.00      0.022  O   I   |       |       |       |     0.23
 0.250    3.77    0.00      0.046  O    I  |       |       |       |     0.48
 0.333    4.19    0.00      0.073  O    I  |       |       |       |     0.77
 0.417    4.74    0.00      0.104  O     I |       |       |       |     1.09
 0.500    5.57    0.00      0.139  O      I|       |       |       |     1.47
 0.583    6.53    0.00      0.181  O       I       |       |       |     1.91
 0.667    7.79    0.00      0.230  O       | I     |       |       |     2.43
 0.750   10.73    0.00      0.294  O       |     I |       |       |     3.03
 0.833   22.94    0.00      0.410  O       |       |       |      I|     3.41
 0.917   17.80    0.00      0.550  O       |       |       I       |     3.87
 1.000    7.39    0.04      0.637  O       | I     |       |       |     4.24
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1.083    2.88    0.07      0.672  O   I   |       |       |       |     4.41
1.167    0.44    0.07      0.683  O       |       |       |       |     4.47
1.250    0.09    0.08      0.684  O       |       |       |       |     4.47
1.333    0.00    0.07      0.684  O       |       |       |       |     4.47

      Remaining water in basin =    0.68 (Ac.Ft)

      ****************************HYDROGRAPH DATA****************************
                    Number of intervals =    16
                    Time interval =    5.0 (Min.)
                    Maximum/Peak flow rate =        0.075 (CFS)
                    Total volume =       0.002 (Ac.Ft)
              Status of hydrographs being held in storage
                         Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
              Peak (CFS)      0.000     0.000     0.000     0.000     0.000
              Vol (Ac.Ft)      0.000     0.000     0.000     0.000     0.000
      ************************************************************************

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                          Study date: 03/02/22

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******************** HYDROGRAPH INFORMATION **********************

               From study/file name: PRO1003100.rte
*****************************HYDROGRAPH DATA*****************************
               Number of intervals =    39
               Time interval =    5.0 (Min.)
               Maximum/Peak flow rate =       12.850 (CFS)
               Total volume =       0.956 (Ac.Ft)
       Status of hydrographs being held in storage
                    Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
       Peak (CFS)      0.000     0.000     0.000     0.000     0.000
       Vol (Ac.Ft)     0.000     0.000     0.000     0.000     0.000
************************************************************************



++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        1.000 to Point/Station        2.000
**** RETARDING BASIN ROUTING ****
____________________________________________________________________________

User entry of depth-outflow-storage data
------------------------------------------------------------------------
Total number of inflow hydrograph intervals = 39
Hydrograph time unit =  5.000 (Min.)
Initial depth in storage basin =   0.00(Ft.)
------------------------------------------------------------------------
------------------------------------------------------------------------
Initial basin depth =   0.00 (Ft.)
Initial basin storage =      0.00 (Ac.Ft)
Initial basin outflow =   0.00 (CFS)
------------------------------------------------------------------------
------------------------------------------------------------------------
Depth vs. Storage and Depth vs. Discharge data:
 Basin Depth  Storage    Outflow   (S-O*dt/2)   (S+O*dt/2)
     (Ft.)    (Ac.Ft)    (CFS)     (Ac.Ft)    (Ac.Ft)
------------------------------------------------------------------------
   0.000      0.000      0.000      0.000        0.000
   1.000      0.095      0.001      0.095        0.095
   2.000      0.189      0.002      0.189        0.189
   3.000      0.284      0.003      0.284        0.284
   4.000      0.589      0.004      0.589        0.589
   5.000      0.789      0.154      0.788        0.790
   6.000      1.011      0.350      1.010        1.012
   7.000      1.258      0.618      1.256        1.260
   7.400      1.364      0.690      1.362        1.366
   8.000      1.530     50.310      1.357        1.703
------------------------------------------------------------------------
               Hydrograph Detention Basin Routing
------------------------------------------------------------------------

Graph values: 'I'= unit inflow; 'O'=outflow at time shown
------------------------------------------------------------------------
  Time   Inflow  Outflow    Storage                                    Depth
 (Hours)  (CFS)   (CFS)     (Ac.Ft) .0       3.2    6.43    9.64   12.85 (Ft.)
  0.083    0.78    0.00      0.003  OI      |       |       |       |     0.03
  0.167    1.40    0.00      0.010  O  I    |       |       |       |     0.11
  0.250    1.39    0.00      0.020  O  I    |       |       |       |     0.21
  0.333    1.57    0.00      0.030  O  I    |       |       |       |     0.32
  0.417    1.74    0.00      0.041  O   I   |       |       |       |     0.44
  0.500    1.95    0.00      0.054  O   I   |       |       |       |     0.57
  0.583    1.92    0.00      0.067  O   I   |       |       |       |     0.71
  0.667    1.99    0.00      0.081  O   I   |       |       |       |     0.85
  0.750    2.11    0.00      0.095  O    I  |       |       |       |     1.00
  0.833    1.95    0.00      0.109  O   I   |       |       |       |     1.15
  0.917    1.87    0.00      0.122  O   I   |       |       |       |     1.29
  1.000    2.02    0.00      0.136  O    I  |       |       |       |     1.43
  1.083    2.35    0.00      0.151  O    I  |       |       |       |     1.59
  1.167    2.56    0.00      0.168  O     I |       |       |       |     1.77
  1.250    2.60    0.00      0.185  O     I |       |       |       |     1.96
  1.333    2.49    0.00      0.203  O     I |       |       |       |     2.15
  1.417    2.81    0.00      0.221  O      I|       |       |       |     2.34
  1.500    3.22    0.00      0.242  O       I       |       |       |     2.56
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1.583	3.08	0.00	0.264	o	I	|	|	|	2.78
1.667	3.17	0.00	0.285	o	I	|	|	|	3.00
1.750	3.93	0.00	0.309	o	| I	|	|	|	3.08
1.833	4.23	0.00	0.338	o	| I	|	|	|	3.18
1.917	3.97	0.00	0.366	o	| I	|	|	|	3.27
2.000	3.91	0.00	0.393	o	| I	|	|	|	3.36
2.083	4.05	0.00	0.420	o	| I	|	|	|	3.45
2.167	5.20	0.00	0.452	o	| I	|	|	|	3.55
2.250	6.84	0.00	0.494	o	| I	|	|	|	3.69
2.333	6.16	0.00	0.538	o	| I	|	|	|	3.83
2.417	8.35	0.00	0.588	o	| I	|	|	|	4.00
2.500	11.21	0.05	0.655	o	| I	|	|	|	4.33
2.583	12.85	0.12	0.738	o	| I	|	|	|	4.74
2.667	11.51	0.18	0.821	o	| I	|	|	|	5.14
2.750	6.27	0.23	0.880	o	| I	|	|	|	5.41
2.833	3.00	0.26	0.911	o	I	|	|	|	5.55
2.917	2.31	0.28	0.927	o	I	|	|	|	5.62
3.000	1.42	0.29	0.938	o	I	|	|	|	5.67
3.083	0.48	0.29	0.942	oI		|	|	|	5.69
3.167	0.10	0.29	0.942	o		|	|	|	5.69
3.250	0.02	0.29	0.941	o		|	|	|	5.68
3.333	0.00	0.29	0.939	o		|	|	|	5.68
3.417	0.00	0.28	0.937	o		|	|	|	5.67
3.500	0.00	0.28	0.935	o		|	|	|	5.66
3.583	0.00	0.28	0.933	o		|	|	|	5.65
3.667	0.00	0.28	0.931	o		|	|	|	5.64
3.750	0.00	0.28	0.929	o		|	|	|	5.63
3.833	0.00	0.28	0.927	o		|	|	|	5.62
3.917	0.00	0.27	0.925	o		|	|	|	5.61
4.000	0.00	0.27	0.924	o		|	|	|	5.61
4.083	0.00	0.27	0.922	o		|	|	|	5.60
4.167	0.00	0.27	0.920	o		|	|	|	5.59
4.250	0.00	0.27	0.918	o		|	|	|	5.58
4.333	0.00	0.27	0.916	o		|	|	|	5.57
4.417	0.00	0.26	0.914	o		|	|	|	5.56
4.500	0.00	0.26	0.912	o		|	|	|	5.56
4.583	0.00	0.26	0.911	o		|	|	|	5.55
4.667	0.00	0.26	0.909	o		|	|	|	5.54
4.750	0.00	0.26	0.907	o		|	|	|	5.53
4.833	0.00	0.26	0.905	o		|	|	|	5.52
4.917	0.00	0.26	0.904	o		|	|	|	5.52
5.000	0.00	0.25	0.902	o		|	|	|	5.51
5.083	0.00	0.25	0.900	o		|	|	|	5.50
5.167	0.00	0.25	0.898	o		|	|	|	5.49
5.250	0.00	0.25	0.897	o		|	|	|	5.48
5.333	0.00	0.25	0.895	o		|	|	|	5.48
5.417	0.00	0.25	0.893	o		|	|	|	5.47
5.500	0.00	0.24	0.892	o		|	|	|	5.46
5.583	0.00	0.24	0.890	o		|	|	|	5.45
5.667	0.00	0.24	0.888	o		|	|	|	5.45
5.750	0.00	0.24	0.887	o		|	|	|	5.44
5.833	0.00	0.24	0.885	o		|	|	|	5.43
5.917	0.00	0.24	0.883	o		|	|	|	5.42
6.000	0.00	0.24	0.882	o		|	|	|	5.42
6.083	0.00	0.23	0.880	o		|	|	|	5.41
6.167	0.00	0.23	0.878	o		|	|	|	5.40
6.250	0.00	0.23	0.877	o		|	|	|	5.40
6.333	0.00	0.23	0.875	o		|	|	|	5.39
6.417	0.00	0.23	0.874	o		|	|	|	5.38
6.500	0.00	0.23	0.872	o		|	|	|	5.37
6.583	0.00	0.23	0.870	o		|	|	|	5.37
6.667	0.00	0.22	0.869	o		|	|	|	5.36
6.750	0.00	0.22	0.867	o		|	|	|	5.35
6.833	0.00	0.22	0.866	o		|	|	|	5.35
6.917	0.00	0.22	0.864	o		|	|	|	5.34
7.000	0.00	0.22	0.863	o		|	|	|	5.33
7.083	0.00	0.22	0.861	o		|	|	|	5.33
7.167	0.00	0.22	0.860	o		|	|	|	5.32
7.250	0.00	0.22	0.858	o		|	|	|	5.31
7.333	0.00	0.21	0.857	o		|	|	|	5.31
7.417	0.00	0.21	0.855	o		|	|	|	5.30
7.500	0.00	0.21	0.854	o		|	|	|	5.29
7.583	0.00	0.21	0.852	o		|	|	|	5.29
7.667	0.00	0.21	0.851	o		|	|	|	5.28
7.750	0.00	0.21	0.850	o		|	|	|	5.27
7.833	0.00	0.21	0.848	o		|	|	|	5.27
7.917	0.00	0.20	0.847	o		|	|	|	5.26
8.000	0.00	0.20	0.845	o		|	|	|	5.25
8.083	0.00	0.20	0.844	o		|	|	|	5.25
8.167	0.00	0.20	0.843	o		|	|	|	5.24
8.250	0.00	0.20	0.841	o		|	|	|	5.24
8.333	0.00	0.20	0.840	o		|	|	|	5.23
8.417	0.00	0.20	0.838	o		|	|	|	5.22
8.500	0.00	0.20	0.837	o		|	|	|	5.22
8.583	0.00	0.20	0.836	o		|	|	|	5.21
8.667	0.00	0.19	0.834	o		|	|	|	5.20
8.750	0.00	0.19	0.833	o		|	|	|	5.20

8.833	0.00	0.19	0.832	o	|	|	|	5.19
8.917	0.00	0.19	0.830	o	|	|	|	5.19
9.000	0.00	0.19	0.829	o	|	|	|	5.18
9.083	0.00	0.19	0.828	o	|	|	|	5.17
9.167	0.00	0.19	0.827	o	|	|	|	5.17
9.250	0.00	0.19	0.825	o	|	|	|	5.16
9.333	0.00	0.18	0.824	o	|	|	|	5.16
9.417	0.00	0.18	0.823	o	|	|	|	5.15
9.500	0.00	0.18	0.821	o	|	|	|	5.15
9.583	0.00	0.18	0.820	o	|	|	|	5.14
9.667	0.00	0.18	0.819	o	|	|	|	5.13
9.750	0.00	0.18	0.818	o	|	|	|	5.13
9.833	0.00	0.18	0.816	o	|	|	|	5.12
9.917	0.00	0.18	0.815	o	|	|	|	5.12
10.000	0.00	0.18	0.814	o	|	|	|	5.11
10.083	0.00	0.18	0.813	o	|	|	|	5.11
10.167	0.00	0.17	0.812	o	|	|	|	5.10
10.250	0.00	0.17	0.810	o	|	|	|	5.10
10.333	0.00	0.17	0.809	o	|	|	|	5.09
10.417	0.00	0.17	0.808	o	|	|	|	5.09
10.500	0.00	0.17	0.807	o	|	|	|	5.08
10.583	0.00	0.17	0.806	o	|	|	|	5.08
10.667	0.00	0.17	0.805	o	|	|	|	5.07
10.750	0.00	0.17	0.803	o	|	|	|	5.06
10.833	0.00	0.17	0.802	o	|	|	|	5.06
10.917	0.00	0.16	0.801	o	|	|	|	5.05
11.000	0.00	0.16	0.800	o	|	|	|	5.05
11.083	0.00	0.16	0.799	o	|	|	|	5.04
11.167	0.00	0.16	0.798	o	|	|	|	5.04
11.250	0.00	0.16	0.797	o	|	|	|	5.03
11.333	0.00	0.16	0.796	o	|	|	|	5.03
11.417	0.00	0.16	0.794	o	|	|	|	5.02
11.500	0.00	0.16	0.793	o	|	|	|	5.02
11.583	0.00	0.16	0.792	o	|	|	|	5.01
11.667	0.00	0.16	0.791	o	|	|	|	5.01
11.750	0.00	0.15	0.790	o	|	|	|	5.00
11.833	0.00	0.15	0.789	o	|	|	|	5.00
11.917	0.00	0.15	0.788	o	|	|	|	4.99
12.000	0.00	0.15	0.787	o	|	|	|	4.99
12.083	0.00	0.15	0.786	o	|	|	|	4.98
12.167	0.00	0.15	0.785	o	|	|	|	4.98
12.250	0.00	0.15	0.784	o	|	|	|	4.97
12.333	0.00	0.15	0.783	o	|	|	|	4.97
12.417	0.00	0.15	0.782	o	|	|	|	4.96
12.500	0.00	0.15	0.781	o	|	|	|	4.96
12.583	0.00	0.15	0.780	o	|	|	|	4.95
12.667	0.00	0.15	0.779	o	|	|	|	4.95
12.750	0.00	0.15	0.778	o	|	|	|	4.94
12.833	0.00	0.14	0.777	o	|	|	|	4.94
12.917	0.00	0.14	0.776	o	|	|	|	4.93
13.000	0.00	0.14	0.775	o	|	|	|	4.93
13.083	0.00	0.14	0.774	o	|	|	|	4.92
13.167	0.00	0.14	0.773	o	|	|	|	4.92
13.250	0.00	0.14	0.772	o	|	|	|	4.91
13.333	0.00	0.14	0.771	o	|	|	|	4.91
13.417	0.00	0.14	0.770	o	|	|	|	4.90
13.500	0.00	0.14	0.769	o	|	|	|	4.90
13.583	0.00	0.14	0.768	o	|	|	|	4.89
13.667	0.00	0.14	0.767	o	|	|	|	4.89
13.750	0.00	0.14	0.766	o	|	|	|	4.89
13.833	0.00	0.14	0.765	o	|	|	|	4.88
13.917	0.00	0.14	0.764	o	|	|	|	4.88
14.000	0.00	0.13	0.763	o	|	|	|	4.87
14.083	0.00	0.13	0.762	o	|	|	|	4.87
14.167	0.00	0.13	0.761	o	|	|	|	4.86
14.250	0.00	0.13	0.760	o	|	|	|	4.86
14.333	0.00	0.13	0.760	o	|	|	|	4.85
14.417	0.00	0.13	0.759	o	|	|	|	4.85
14.500	0.00	0.13	0.758	o	|	|	|	4.84
14.583	0.00	0.13	0.757	o	|	|	|	4.84
14.667	0.00	0.13	0.756	o	|	|	|	4.83
14.750	0.00	0.13	0.755	o	|	|	|	4.83
14.833	0.00	0.13	0.754	o	|	|	|	4.83
14.917	0.00	0.13	0.753	o	|	|	|	4.82
15.000	0.00	0.13	0.752	o	|	|	|	4.82
15.083	0.00	0.13	0.752	o	|	|	|	4.81
15.167	0.00	0.13	0.751	o	|	|	|	4.81
15.250	0.00	0.12	0.750	o	|	|	|	4.80
15.333	0.00	0.12	0.749	o	|	|	|	4.80
15.417	0.00	0.12	0.748	o	|	|	|	4.80
15.500	0.00	0.12	0.747	o	|	|	|	4.79
15.583	0.00	0.12	0.746	o	|	|	|	4.79
15.667	0.00	0.12	0.746	o	|	|	|	4.78
15.750	0.00	0.12	0.745	o	|	|	|	4.78
15.833	0.00	0.12	0.744	o	|	|	|	4.77
15.917	0.00	0.12	0.743	o	|	|	|	4.77
16.000	0.00	0.12	0.742	o	|	|	|	4.77

```
16.083    0.00    0.12      0.741  O       |       |       |       |     4.76
16.167    0.00    0.12      0.741  O       |       |       |       |     4.76
16.250    0.00    0.12      0.740  O       |       |       |       |     4.75
16.333    0.00    0.12      0.739  O       |       |       |       |     4.75
16.417    0.00    0.12      0.738  O       |       |       |       |     4.75
16.500    0.00    0.12      0.737  O       |       |       |       |     4.74
16.583    0.00    0.11      0.737  O       |       |       |       |     4.74
16.667    0.00    0.11      0.736  O       |       |       |       |     4.73
16.750    0.00    0.11      0.735  O       |       |       |       |     4.73
16.833    0.00    0.11      0.734  O       |       |       |       |     4.73
16.917    0.00    0.11      0.734  O       |       |       |       |     4.72
17.000    0.00    0.11      0.733  O       |       |       |       |     4.72
17.083    0.00    0.11      0.732  O       |       |       |       |     4.71
17.167    0.00    0.11      0.731  O       |       |       |       |     4.71
17.250    0.00    0.11      0.730  O       |       |       |       |     4.71
17.333    0.00    0.11      0.730  O       |       |       |       |     4.70
17.417    0.00    0.11      0.729  O       |       |       |       |     4.70
17.500    0.00    0.11      0.728  O       |       |       |       |     4.70
17.583    0.00    0.11      0.727  O       |       |       |       |     4.69
17.667    0.00    0.11      0.727  O       |       |       |       |     4.69
17.750    0.00    0.11      0.726  O       |       |       |       |     4.68
17.833    0.00    0.11      0.725  O       |       |       |       |     4.68
17.917    0.00    0.11      0.725  O       |       |       |       |     4.68
18.000    0.00    0.11      0.724  O       |       |       |       |     4.67
18.083    0.00    0.10      0.723  O       |       |       |       |     4.67
18.167    0.00    0.10      0.722  O       |       |       |       |     4.67
18.250    0.00    0.10      0.722  O       |       |       |       |     4.66
18.333    0.00    0.10      0.721  O       |       |       |       |     4.66
18.417    0.00    0.10      0.720  O       |       |       |       |     4.66
18.500    0.00    0.10      0.720  O       |       |       |       |     4.65
18.583    0.00    0.10      0.719  O       |       |       |       |     4.65
18.667    0.00    0.10      0.718  O       |       |       |       |     4.65
18.750    0.00    0.10      0.717  O       |       |       |       |     4.64
18.833    0.00    0.10      0.717  O       |       |       |       |     4.64

       Remaining water in basin =    0.72 (Ac.Ft)

       ****************************HYDROGRAPH DATA****************************
                     Number of intervals =   226
                     Time interval =    5.0 (Min.)
                     Maximum/Peak flow rate =        0.290 (CFS)
                     Total volume =       0.240 (Ac.Ft)
              Status of hydrographs being held in storage
                        Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
              Peak (CFS)      0.000     0.000     0.000     0.000     0.000
              Vol (Ac.Ft)     0.000     0.000     0.000     0.000     0.000
       ***********************************************************************

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                FLOOD HYDROGRAPH ROUTING PROGRAM
          Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2004
                      Study date: 03/02/22

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Program License Serial Number 5006

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******************** HYDROGRAPH INFORMATION **********************

               From study/file name: PRO1006100.rte
*****************************HYDROGRAPH DATA*****************************
               Number of intervals =    75
               Time interval =    5.0 (Min.)
               Maximum/Peak flow rate =       11.078 (CFS)
               Total volume =       1.194 (Ac.Ft)
       Status of hydrographs being held in storage
                    Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
       Peak (CFS)      0.000     0.000     0.000     0.000     0.000
       Vol (Ac.Ft)     0.000     0.000     0.000     0.000     0.000
*************************************************************************



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Process from Point/Station        1.000 to Point/Station        2.000
**** RETARDING BASIN ROUTING ****
____________________________________________________________________________

User entry of depth-outflow-storage data
------------------------------------------------------------------------
Total number of inflow hydrograph intervals = 75
Hydrograph time unit =  5.000 (Min.)
Initial depth in storage basin =   0.00(Ft.)
------------------------------------------------------------------------
------------------------------------------------------------------------
Initial basin depth =   0.00 (Ft.)
Initial basin storage =      0.00 (Ac.Ft)
Initial basin outflow =   0.00 (CFS)
------------------------------------------------------------------------
------------------------------------------------------------------------
Depth vs. Storage and Depth vs. Discharge data:
 Basin Depth  Storage    Outflow   (S-O*dt/2)   (S+O*dt/2)
     (Ft.)    (Ac.Ft)    (CFS)     (Ac.Ft)    (Ac.Ft)
------------------------------------------------------------------------
   0.000      0.000      0.000      0.000        0.000
   1.000      0.095      0.001      0.095        0.095
   2.000      0.189      0.002      0.189        0.189
   3.000      0.284      0.003      0.284        0.284
   4.000      0.589      0.004      0.589        0.589
   5.000      0.789      0.154      0.788        0.790
   6.000      1.011      0.350      1.010        1.012
   7.000      1.258      0.618      1.256        1.260
   7.400      1.364      0.690      1.362        1.366
   8.000      1.530     50.310      1.357        1.703
------------------------------------------------------------------------
               Hydrograph Detention Basin Routing
------------------------------------------------------------------------

Graph values: 'I'= unit inflow; 'O'=outflow at time shown
------------------------------------------------------------------------
 Time   Inflow  Outflow    Storage                                    Depth
(Hours) (CFS)   (CFS)     (Ac.Ft) .0       2.8    5.54    8.31   11.08 (Ft.)
 0.083    0.40    0.00      0.001  OI      |       |       |       |     0.01
 0.167    0.79    0.00      0.005  O I     |       |       |       |     0.06
 0.250    0.91    0.00      0.011  O I     |       |       |       |     0.12
 0.333    0.93    0.00      0.018  O I     |       |       |       |     0.19
 0.417    0.94    0.00      0.024  O I     |       |       |       |     0.25
 0.500    1.02    0.00      0.031  O I     |       |       |       |     0.32
 0.583    1.08    0.00      0.038  O  I    |       |       |       |     0.40
 0.667    1.09    0.00      0.045  O  I    |       |       |       |     0.48
 0.750    1.09    0.00      0.053  O  I    |       |       |       |     0.56
 0.833    1.09    0.00      0.061  O  I    |       |       |       |     0.64
 0.917    1.09    0.00      0.068  O  I    |       |       |       |     0.72
 1.000    1.17    0.00      0.076  O  I    |       |       |       |     0.80
 1.083    1.24    0.00      0.084  O  I    |       |       |       |     0.89
 1.167    1.25    0.00      0.093  O  I    |       |       |       |     0.98
 1.250    1.25    0.00      0.101  O  I    |       |       |       |     1.07
 1.333    1.25    0.00      0.110  O  I    |       |       |       |     1.16
 1.417    1.25    0.00      0.118  O  I    |       |       |       |     1.25
 1.500    1.25    0.00      0.127  O  I    |       |       |       |     1.34
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1.583	1.25	0.00	0.136	O I	|	|	|	|	1.43
1.667	1.25	0.00	0.144	O I	|	|	|	|	1.52
1.750	1.25	0.00	0.153	O I	|	|	|	|	1.62
1.833	1.25	0.00	0.161	O I	|	|	|	|	1.71
1.917	1.25	0.00	0.170	O I	|	|	|	|	1.80
2.000	1.33	0.00	0.179	O I	|	|	|	|	1.89
2.083	1.31	0.00	0.188	O I	|	|	|	|	1.99
2.167	1.34	0.00	0.197	O I	|	|	|	|	2.09
2.250	1.39	0.00	0.206	O I	|	|	|	|	2.18
2.333	1.40	0.00	0.216	O I	|	|	|	|	2.29
2.417	1.41	0.00	0.226	O I	|	|	|	|	2.39
2.500	1.41	0.00	0.235	O I	|	|	|	|	2.49
2.583	1.41	0.00	0.245	O I	|	|	|	|	2.59
2.667	1.41	0.00	0.255	O I	|	|	|	|	2.69
2.750	1.49	0.00	0.265	O I	|	|	|	|	2.80
2.833	1.55	0.00	0.275	O I	|	|	|	|	2.91
2.917	1.56	0.00	0.286	O I	|	|	|	|	3.01
3.000	1.56	0.00	0.297	O I	|	|	|	|	3.04
3.083	1.56	0.00	0.307	O I	|	|	|	|	3.08
3.167	1.64	0.00	0.318	O I	|	|	|	|	3.11
3.250	1.70	0.00	0.330	O I	|	|	|	|	3.15
3.333	1.72	0.00	0.342	O I	|	|	|	|	3.19
3.417	1.80	0.00	0.354	O I	|	|	|	|	3.23
3.500	1.94	0.00	0.366	O I	|	|	|	|	3.27
3.583	2.09	0.00	0.380	O I	|	|	|	|	3.32
3.667	2.17	0.00	0.395	O I	|	|	|	|	3.36
3.750	2.26	0.00	0.410	O I	|	|	|	|	3.41
3.833	2.33	0.00	0.426	O I	|	|	|	|	3.47
3.917	2.42	0.00	0.442	O I	|	|	|	|	3.52
4.000	2.49	0.00	0.459	O I	|	|	|	|	3.57
4.083	2.58	0.00	0.477	O I	|	|	|	|	3.63
4.167	2.72	0.00	0.495	O I	|	|	|	|	3.69
4.250	2.89	0.00	0.514	O I	|	|	|	|	3.75
4.333	3.11	0.00	0.535	O I	|	|	|	|	3.82
4.417	3.36	0.00	0.557	O I	|	|	|	|	3.90
4.500	3.48	0.00	0.581	O I	|	|	|	|	3.97
4.583	3.63	0.02	0.605	O I	|	|	|	|	4.08
4.667	3.87	0.04	0.631	O I	|	|	|	|	4.21
4.750	4.11	0.06	0.658	O I	|	|	|	|	4.34
4.833	4.24	0.08	0.686	O I	|	|	|	|	4.49
4.917	4.39	0.10	0.715	O I	|	|	|	|	4.63
5.000	4.62	0.12	0.746	O I	|	|	|	|	4.78
5.083	5.38	0.15	0.779	O I	|	|	|	|	4.95
5.167	6.55	0.18	0.819	O I	|	|	|	|	5.14
5.250	7.53	0.22	0.866	O I	|	|	|	|	5.35
5.333	8.33	0.27	0.919	O I	|	|	|	|	5.59
5.417	9.35	0.32	0.978	O I	|	|	|	|	5.85
5.500	11.08	0.39	1.046	|O I	|	|	|	|	6.14
5.583	7.38	0.45	1.106	|O I	|	|	|	|	6.39
5.667	3.01	0.49	1.139	|O I	|	|	|	|	6.52
5.750	1.51	0.50	1.151	|O I	|	|	|	|	6.57
5.833	0.94	0.51	1.156	|OI	|	|	|	|	6.59
5.917	0.65	0.51	1.158	|O	|	|	|	|	6.60
6.000	0.42	0.51	1.158	|O	|	|	|	|	6.60
6.083	0.18	0.51	1.157	IO	|	|	|	|	6.59
6.167	0.03	0.51	1.154	IO	|	|	|	|	6.58
6.250	0.01	0.50	1.151	IO	|	|	|	|	6.57
6.333	0.00	0.50	1.147	IO	|	|	|	|	6.55
6.417	0.00	0.49	1.144	IO	|	|	|	|	6.54
6.500	0.00	0.49	1.140	IO	|	|	|	|	6.52
6.583	0.00	0.49	1.137	IO	|	|	|	|	6.51
6.667	0.00	0.48	1.134	IO	|	|	|	|	6.50
6.750	0.00	0.48	1.130	IO	|	|	|	|	6.48
6.833	0.00	0.48	1.127	IO	|	|	|	|	6.47
6.917	0.00	0.47	1.124	IO	|	|	|	|	6.46
7.000	0.00	0.47	1.121	IO	|	|	|	|	6.44
7.083	0.00	0.47	1.117	IO	|	|	|	|	6.43
7.167	0.00	0.46	1.114	IO	|	|	|	|	6.42
7.250	0.00	0.46	1.111	IO	|	|	|	|	6.40
7.333	0.00	0.46	1.108	IO	|	|	|	|	6.39
7.417	0.00	0.45	1.105	IO	|	|	|	|	6.38
7.500	0.00	0.45	1.102	IO	|	|	|	|	6.37
7.583	0.00	0.44	1.099	IO	|	|	|	|	6.35
7.667	0.00	0.44	1.096	IO	|	|	|	|	6.34
7.750	0.00	0.44	1.092	IO	|	|	|	|	6.33
7.833	0.00	0.44	1.089	IO	|	|	|	|	6.32
7.917	0.00	0.43	1.086	IO	|	|	|	|	6.31
8.000	0.00	0.43	1.084	IO	|	|	|	|	6.29
8.083	0.00	0.43	1.081	IO	|	|	|	|	6.28
8.167	0.00	0.42	1.078	IO	|	|	|	|	6.27
8.250	0.00	0.42	1.075	IO	|	|	|	|	6.26
8.333	0.00	0.42	1.072	IO	|	|	|	|	6.25
8.417	0.00	0.41	1.069	IO	|	|	|	|	6.23
8.500	0.00	0.41	1.066	IO	|	|	|	|	6.22
8.583	0.00	0.41	1.063	IO	|	|	|	|	6.21
8.667	0.00	0.40	1.061	IO	|	|	|	|	6.20
8.750	0.00	0.40	1.058	IO	|	|	|	|	6.19

8.833	0.00	0.40	1.055	IO				6.18
8.917	0.00	0.39	1.052	IO				6.17
9.000	0.00	0.39	1.050	IO				6.16
9.083	0.00	0.39	1.047	IO				6.15
9.167	0.00	0.39	1.044	IO				6.13
9.250	0.00	0.38	1.042	IO				6.12
9.333	0.00	0.38	1.039	IO				6.11
9.417	0.00	0.38	1.036	IO				6.10
9.500	0.00	0.37	1.034	IO				6.09
9.583	0.00	0.37	1.031	IO				6.08
9.667	0.00	0.37	1.029	IO				6.07
9.750	0.00	0.37	1.026	IO				6.06
9.833	0.00	0.36	1.024	IO				6.05
9.917	0.00	0.36	1.021	IO				6.04
10.000	0.00	0.36	1.019	IO				6.03
10.083	0.00	0.36	1.016	IO				6.02
10.167	0.00	0.35	1.014	IO				6.01
10.250	0.00	0.35	1.011	IO				6.00
10.333	0.00	0.35	1.009	IO				5.99
10.417	0.00	0.35	1.007	O				5.98
10.500	0.00	0.34	1.004	O				5.97
10.583	0.00	0.34	1.002	O				5.96
10.667	0.00	0.34	0.999	O				5.95
10.750	0.00	0.34	0.997	O				5.94
10.833	0.00	0.34	0.995	O				5.93
10.917	0.00	0.33	0.992	O				5.92
11.000	0.00	0.33	0.990	O				5.91
11.083	0.00	0.33	0.988	O				5.90
11.167	0.00	0.33	0.986	O				5.89
11.250	0.00	0.33	0.983	O				5.88
11.333	0.00	0.32	0.981	O				5.87
11.417	0.00	0.32	0.979	O				5.86
11.500	0.00	0.32	0.977	O				5.85
11.583	0.00	0.32	0.975	O				5.84
11.667	0.00	0.32	0.972	O				5.83
11.750	0.00	0.31	0.970	O				5.82
11.833	0.00	0.31	0.968	O				5.81
11.917	0.00	0.31	0.966	O				5.80
12.000	0.00	0.31	0.964	O				5.79
12.083	0.00	0.31	0.962	O				5.78
12.167	0.00	0.30	0.960	O				5.77
12.250	0.00	0.30	0.957	O				5.76
12.333	0.00	0.30	0.955	O				5.75
12.417	0.00	0.30	0.953	O				5.74
12.500	0.00	0.30	0.951	O				5.73
12.583	0.00	0.30	0.949	O				5.72
12.667	0.00	0.29	0.947	O				5.71
12.750	0.00	0.29	0.945	O				5.70
12.833	0.00	0.29	0.943	O				5.69
12.917	0.00	0.29	0.941	O				5.69
13.000	0.00	0.29	0.939	O				5.68
13.083	0.00	0.28	0.937	O				5.67
13.167	0.00	0.28	0.935	O				5.66
13.250	0.00	0.28	0.933	O				5.65
13.333	0.00	0.28	0.931	O				5.64
13.417	0.00	0.28	0.929	O				5.63
13.500	0.00	0.28	0.928	O				5.62
13.583	0.00	0.27	0.926	O				5.62
13.667	0.00	0.27	0.924	O				5.61
13.750	0.00	0.27	0.922	O				5.60
13.833	0.00	0.27	0.920	O				5.59
13.917	0.00	0.27	0.918	O				5.58
14.000	0.00	0.27	0.916	O				5.57
14.083	0.00	0.26	0.915	O				5.57
14.167	0.00	0.26	0.913	O				5.56
14.250	0.00	0.26	0.911	O				5.55
14.333	0.00	0.26	0.909	O				5.54
14.417	0.00	0.26	0.907	O				5.53
14.500	0.00	0.26	0.906	O				5.52
14.583	0.00	0.26	0.904	O				5.52
14.667	0.00	0.25	0.902	O				5.51
14.750	0.00	0.25	0.900	O				5.50
14.833	0.00	0.25	0.899	O				5.49
14.917	0.00	0.25	0.897	O				5.49
15.000	0.00	0.25	0.895	O				5.48
15.083	0.00	0.25	0.893	O				5.47
15.167	0.00	0.24	0.892	O				5.46
15.250	0.00	0.24	0.890	O				5.46
15.333	0.00	0.24	0.888	O				5.45
15.417	0.00	0.24	0.887	O				5.44
15.500	0.00	0.24	0.885	O				5.43
15.583	0.00	0.24	0.883	O				5.43
15.667	0.00	0.24	0.882	O				5.42
15.750	0.00	0.23	0.880	O				5.41
15.833	0.00	0.23	0.879	O				5.40
15.917	0.00	0.23	0.877	O				5.40
16.000	0.00	0.23	0.875	O				5.39

16.083	0.00	0.23	0.874	o	|	|	|	5.38
16.167	0.00	0.23	0.872	o	|	|	|	5.37
16.250	0.00	0.23	0.871	o	|	|	|	5.37
16.333	0.00	0.22	0.869	o	|	|	|	5.36
16.417	0.00	0.22	0.868	o	|	|	|	5.35
16.500	0.00	0.22	0.866	o	|	|	|	5.35
16.583	0.00	0.22	0.865	o	|	|	|	5.34
16.667	0.00	0.22	0.863	o	|	|	|	5.33
16.750	0.00	0.22	0.861	o	|	|	|	5.33
16.833	0.00	0.22	0.860	o	|	|	|	5.32
16.917	0.00	0.22	0.859	o	|	|	|	5.31
17.000	0.00	0.21	0.857	o	|	|	|	5.31
17.083	0.00	0.21	0.856	o	|	|	|	5.30
17.167	0.00	0.21	0.854	o	|	|	|	5.29
17.250	0.00	0.21	0.853	o	|	|	|	5.29
17.333	0.00	0.21	0.851	o	|	|	|	5.28
17.417	0.00	0.21	0.850	o	|	|	|	5.27
17.500	0.00	0.21	0.848	o	|	|	|	5.27
17.583	0.00	0.21	0.847	o	|	|	|	5.26
17.667	0.00	0.20	0.846	o	|	|	|	5.25
17.750	0.00	0.20	0.844	o	|	|	|	5.25
17.833	0.00	0.20	0.843	o	|	|	|	5.24
17.917	0.00	0.20	0.841	o	|	|	|	5.24
18.000	0.00	0.20	0.840	o	|	|	|	5.23
18.083	0.00	0.20	0.839	o	|	|	|	5.22
18.167	0.00	0.20	0.837	o	|	|	|	5.22
18.250	0.00	0.20	0.836	o	|	|	|	5.21
18.333	0.00	0.19	0.835	o	|	|	|	5.21
18.417	0.00	0.19	0.833	o	|	|	|	5.20
18.500	0.00	0.19	0.832	o	|	|	|	5.19
18.583	0.00	0.19	0.831	o	|	|	|	5.19
18.667	0.00	0.19	0.829	o	|	|	|	5.18
18.750	0.00	0.19	0.828	o	|	|	|	5.18
18.833	0.00	0.19	0.827	o	|	|	|	5.17
18.917	0.00	0.19	0.825	o	|	|	|	5.16
19.000	0.00	0.18	0.824	o	|	|	|	5.16
19.083	0.00	0.18	0.823	o	|	|	|	5.15
19.167	0.00	0.18	0.822	o	|	|	|	5.15
19.250	0.00	0.18	0.820	o	|	|	|	5.14
19.333	0.00	0.18	0.819	o	|	|	|	5.14
19.417	0.00	0.18	0.818	o	|	|	|	5.13
19.500	0.00	0.18	0.817	o	|	|	|	5.12
19.583	0.00	0.18	0.815	o	|	|	|	5.12
19.667	0.00	0.18	0.814	o	|	|	|	5.11
19.750	0.00	0.18	0.813	o	|	|	|	5.11
19.833	0.00	0.17	0.812	o	|	|	|	5.10
19.917	0.00	0.17	0.811	o	|	|	|	5.10
20.000	0.00	0.17	0.809	o	|	|	|	5.09
20.083	0.00	0.17	0.808	o	|	|	|	5.09
20.167	0.00	0.17	0.807	o	|	|	|	5.08
20.250	0.00	0.17	0.806	o	|	|	|	5.08
20.333	0.00	0.17	0.805	o	|	|	|	5.07
20.417	0.00	0.17	0.804	o	|	|	|	5.07
20.500	0.00	0.17	0.802	o	|	|	|	5.06
20.583	0.00	0.16	0.801	o	|	|	|	5.06
20.667	0.00	0.16	0.800	o	|	|	|	5.05
20.750	0.00	0.16	0.799	o	|	|	|	5.04
20.833	0.00	0.16	0.798	o	|	|	|	5.04
20.917	0.00	0.16	0.797	o	|	|	|	5.03
21.000	0.00	0.16	0.796	o	|	|	|	5.03
21.083	0.00	0.16	0.795	o	|	|	|	5.03
21.167	0.00	0.16	0.793	o	|	|	|	5.02
21.250	0.00	0.16	0.792	o	|	|	|	5.02
21.333	0.00	0.16	0.791	o	|	|	|	5.01
21.417	0.00	0.16	0.790	o	|	|	|	5.01
21.500	0.00	0.15	0.789	o	|	|	|	5.00
21.583	0.00	0.15	0.788	o	|	|	|	5.00
21.667	0.00	0.15	0.787	o	|	|	|	4.99
21.750	0.00	0.15	0.786	o	|	|	|	4.99
21.833	0.00	0.15	0.785	o	|	|	|	4.98
21.917	0.00	0.15	0.784	o	|	|	|	4.97
22.000	0.00	0.15	0.783	o	|	|	|	4.97
22.083	0.00	0.15	0.782	o	|	|	|	4.96
22.167	0.00	0.15	0.781	o	|	|	|	4.96
22.250	0.00	0.15	0.780	o	|	|	|	4.95
22.333	0.00	0.15	0.779	o	|	|	|	4.95
22.417	0.00	0.15	0.778	o	|	|	|	4.94
22.500	0.00	0.14	0.777	o	|	|	|	4.94
22.583	0.00	0.14	0.776	o	|	|	|	4.93
22.667	0.00	0.14	0.775	o	|	|	|	4.93
22.750	0.00	0.14	0.774	o	|	|	|	4.92
22.833	0.00	0.14	0.773	o	|	|	|	4.92
22.917	0.00	0.14	0.772	o	|	|	|	4.91
23.000	0.00	0.14	0.771	o	|	|	|	4.91
23.083	0.00	0.14	0.770	o	|	|	|	4.90
23.167	0.00	0.14	0.769	o	|	|	|	4.90
23.250	0.00	0.14	0.768	o	|	|	|	4.90

23.333	0.00	0.14	0.767	o	|	|	|	|	4.89
23.417	0.00	0.14	0.766	o	|	|	|	|	4.89
23.500	0.00	0.14	0.765	o	|	|	|	|	4.88
23.583	0.00	0.14	0.764	o	|	|	|	|	4.88
23.667	0.00	0.13	0.763	o	|	|	|	|	4.87
23.750	0.00	0.13	0.762	o	|	|	|	|	4.87
23.833	0.00	0.13	0.761	o	|	|	|	|	4.86
23.917	0.00	0.13	0.761	o	|	|	|	|	4.86
24.000	0.00	0.13	0.760	o	|	|	|	|	4.85
24.083	0.00	0.13	0.759	o	|	|	|	|	4.85
24.167	0.00	0.13	0.758	o	|	|	|	|	4.84
24.250	0.00	0.13	0.757	o	|	|	|	|	4.84
24.333	0.00	0.13	0.756	o	|	|	|	|	4.84
24.417	0.00	0.13	0.755	o	|	|	|	|	4.83
24.500	0.00	0.13	0.754	o	|	|	|	|	4.83
24.583	0.00	0.13	0.753	o	|	|	|	|	4.82
24.667	0.00	0.13	0.753	o	|	|	|	|	4.82
24.750	0.00	0.13	0.752	o	|	|	|	|	4.81
24.833	0.00	0.13	0.751	o	|	|	|	|	4.81
24.917	0.00	0.12	0.750	o	|	|	|	|	4.80
25.000	0.00	0.12	0.749	o	|	|	|	|	4.80
25.083	0.00	0.12	0.748	o	|	|	|	|	4.80
25.167	0.00	0.12	0.747	o	|	|	|	|	4.79
25.250	0.00	0.12	0.747	o	|	|	|	|	4.79
25.333	0.00	0.12	0.746	o	|	|	|	|	4.78
25.417	0.00	0.12	0.745	o	|	|	|	|	4.78
25.500	0.00	0.12	0.744	o	|	|	|	|	4.78
25.583	0.00	0.12	0.743	o	|	|	|	|	4.77
25.667	0.00	0.12	0.742	o	|	|	|	|	4.77
25.750	0.00	0.12	0.742	o	|	|	|	|	4.76
25.833	0.00	0.12	0.741	o	|	|	|	|	4.76
25.917	0.00	0.12	0.740	o	|	|	|	|	4.75
26.000	0.00	0.12	0.739	o	|	|	|	|	4.75
26.083	0.00	0.12	0.738	o	|	|	|	|	4.75
26.167	0.00	0.12	0.738	o	|	|	|	|	4.74
26.250	0.00	0.11	0.737	o	|	|	|	|	4.74
26.333	0.00	0.11	0.736	o	|	|	|	|	4.73
26.417	0.00	0.11	0.735	o	|	|	|	|	4.73
26.500	0.00	0.11	0.734	o	|	|	|	|	4.73
26.583	0.00	0.11	0.734	o	|	|	|	|	4.72
26.667	0.00	0.11	0.733	o	|	|	|	|	4.72
26.750	0.00	0.11	0.732	o	|	|	|	|	4.72
26.833	0.00	0.11	0.731	o	|	|	|	|	4.71
26.917	0.00	0.11	0.731	o	|	|	|	|	4.71
27.000	0.00	0.11	0.730	o	|	|	|	|	4.70
27.083	0.00	0.11	0.729	o	|	|	|	|	4.70
27.167	0.00	0.11	0.728	o	|	|	|	|	4.70
27.250	0.00	0.11	0.728	o	|	|	|	|	4.69
27.333	0.00	0.11	0.727	o	|	|	|	|	4.69
27.417	0.00	0.11	0.726	o	|	|	|	|	4.69
27.500	0.00	0.11	0.725	o	|	|	|	|	4.68
27.583	0.00	0.11	0.725	o	|	|	|	|	4.68
27.667	0.00	0.11	0.724	o	|	|	|	|	4.67
27.750	0.00	0.10	0.723	o	|	|	|	|	4.67
27.833	0.00	0.10	0.722	o	|	|	|	|	4.67
27.917	0.00	0.10	0.722	o	|	|	|	|	4.66
28.000	0.00	0.10	0.721	o	|	|	|	|	4.66
28.083	0.00	0.10	0.720	o	|	|	|	|	4.66
28.167	0.00	0.10	0.720	o	|	|	|	|	4.65
28.250	0.00	0.10	0.719	o	|	|	|	|	4.65
28.333	0.00	0.10	0.718	o	|	|	|	|	4.65
28.417	0.00	0.10	0.718	o	|	|	|	|	4.64
28.500	0.00	0.10	0.717	o	|	|	|	|	4.64

Remaining water in basin = 0.72 (Ac.Ft)

**********HYDROGRAPH DATA**********

Number of intervals = 342
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 0.510 (CFS)
Total volume = 0.477 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

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                    FLOOD HYDROGRAPH ROUTING PROGRAM
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                          Study date: 03/02/22

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Program License Serial Number 5006

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******************** HYDROGRAPH INFORMATION **********************

               From study/file name: PRO10024100.rte
*****************************HYDROGRAPH DATA*****************************
               Number of intervals =   291
               Time interval =    5.0 (Min.)
               Maximum/Peak flow rate =        3.611 (CFS)
               Total volume =       1.961 (Ac.Ft)
       Status of hydrographs being held in storage
                    Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
       Peak (CFS)      0.000     0.000     0.000     0.000     0.000
       Vol (Ac.Ft)     0.000     0.000     0.000     0.000     0.000
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Process from Point/Station        1.000 to Point/Station        2.000
**** RETARDING BASIN ROUTING ****
_________________________________________________________________________

User entry of depth-outflow-storage data
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Total number of inflow hydrograph intervals = 291
Hydrograph time unit =  5.000 (Min.)
Initial depth in storage basin =   0.00(Ft.)
------------------------------------------------------------------------
------------------------------------------------------------------------
Initial basin depth =   0.00 (Ft.)
Initial basin storage =      0.00 (Ac.Ft)
Initial basin outflow =   0.00 (CFS)
------------------------------------------------------------------------
------------------------------------------------------------------------
Depth vs. Storage and Depth vs. Discharge data:
 Basin Depth  Storage    Outflow   (S-O*dt/2)   (S+O*dt/2)
     (Ft.)    (Ac.Ft)    (CFS)     (Ac.Ft)    (Ac.Ft)
------------------------------------------------------------------------
   0.000      0.000      0.000      0.000        0.000
   1.000      0.095      0.001      0.095        0.095
   2.000      0.189      0.002      0.189        0.189
   3.000      0.284      0.003      0.284        0.284
   4.000      0.589      0.004      0.589        0.589
   5.000      0.789      0.154      0.788        0.790
   6.000      1.011      0.350      1.010        1.012
   7.000      1.258      0.618      1.256        1.260
   7.400      1.364      0.690      1.362        1.366
   8.000      1.530     50.310      1.357        1.703
------------------------------------------------------------------------
               Hydrograph Detention Basin Routing
------------------------------------------------------------------------

Graph values: 'I'= unit inflow; 'O'=outflow at time shown
------------------------------------------------------------------------
 Time   Inflow  Outflow    Storage                                    Depth
(Hours) (CFS)   (CFS)     (Ac.Ft) .0       0.9    1.81    2.71    3.61 (Ft.)
 0.083    0.09    0.00      0.000  O       |       |       |       |     0.00
 0.167    0.17    0.00      0.001  OI      |       |       |       |     0.01
 0.250    0.18    0.00      0.002  OI      |       |       |       |     0.03
 0.333    0.23    0.00      0.004  O I     |       |       |       |     0.04
 0.417    0.27    0.00      0.006  O I     |       |       |       |     0.06
 0.500    0.28    0.00      0.008  O I     |       |       |       |     0.08
 0.583    0.28    0.00      0.009  O I     |       |       |       |     0.10
 0.667    0.28    0.00      0.011  O I     |       |       |       |     0.12
 0.750    0.28    0.00      0.013  O I     |       |       |       |     0.14
 0.833    0.33    0.00      0.015  O I     |       |       |       |     0.16
 0.917    0.37    0.00      0.018  O  I    |       |       |       |     0.19
 1.000    0.37    0.00      0.020  O  I    |       |       |       |     0.21
 1.083    0.33    0.00      0.023  O I     |       |       |       |     0.24
 1.167    0.29    0.00      0.025  O I     |       |       |       |     0.26
 1.250    0.28    0.00      0.027  O I     |       |       |       |     0.28
 1.333    0.28    0.00      0.029  O I     |       |       |       |     0.30
 1.417    0.28    0.00      0.031  O I     |       |       |       |     0.32
 1.500    0.28    0.00      0.033  O I     |       |       |       |     0.34
```

1.583	0.28	0.00	0.035	o I	|	|	|	0.36
1.667	0.28	0.00	0.037	o I	|	|	|	0.38
1.750	0.28	0.00	0.039	o I	|	|	|	0.41
1.833	0.33	0.00	0.041	o I	|	|	|	0.43
1.917	0.37	0.00	0.043	o I	|	|	|	0.45
2.000	0.37	0.00	0.046	o I	|	|	|	0.48
2.083	0.37	0.00	0.048	o I	|	|	|	0.51
2.167	0.37	0.00	0.051	o I	|	|	|	0.53
2.250	0.37	0.00	0.053	o I	|	|	|	0.56
2.333	0.37	0.00	0.056	o I	|	|	|	0.59
2.417	0.37	0.00	0.058	o I	|	|	|	0.61
2.500	0.37	0.00	0.061	o I	|	|	|	0.64
2.583	0.42	0.00	0.064	o I	|	|	|	0.67
2.667	0.46	0.00	0.067	o I	|	|	|	0.70
2.750	0.47	0.00	0.070	o I	|	|	|	0.74
2.833	0.47	0.00	0.073	o I	|	|	|	0.77
2.917	0.47	0.00	0.076	o I	|	|	|	0.80
3.000	0.47	0.00	0.080	o I	|	|	|	0.84
3.083	0.47	0.00	0.083	o I	|	|	|	0.87
3.167	0.47	0.00	0.086	o I	|	|	|	0.91
3.250	0.47	0.00	0.089	o I	|	|	|	0.94
3.333	0.47	0.00	0.093	o I	|	|	|	0.97
3.417	0.47	0.00	0.096	o I	|	|	|	1.01
3.500	0.47	0.00	0.099	o I	|	|	|	1.04
3.583	0.47	0.00	0.102	o I	|	|	|	1.08
3.667	0.47	0.00	0.105	o I	|	|	|	1.11
3.750	0.47	0.00	0.109	o I	|	|	|	1.14
3.833	0.52	0.00	0.112	o I	|	|	|	1.18
3.917	0.55	0.00	0.116	o I	|	|	|	1.22
4.000	0.56	0.00	0.119	o I	|	|	|	1.26
4.083	0.56	0.00	0.123	o I	|	|	|	1.30
4.167	0.56	0.00	0.127	o I	|	|	|	1.34
4.250	0.56	0.00	0.131	o I	|	|	|	1.38
4.333	0.61	0.00	0.135	o I	|	|	|	1.43
4.417	0.65	0.00	0.139	o I	|	|	|	1.47
4.500	0.65	0.00	0.144	o I	|	|	|	1.52
4.583	0.66	0.00	0.148	o I	|	|	|	1.57
4.667	0.66	0.00	0.153	o I	|	|	|	1.62
4.750	0.66	0.00	0.157	o I	|	|	|	1.66
4.833	0.70	0.00	0.162	o I	|	|	|	1.71
4.917	0.74	0.00	0.167	o I	|	|	|	1.77
5.000	0.75	0.00	0.172	o I	|	|	|	1.82
5.083	0.65	0.00	0.177	o I	|	|	|	1.87
5.167	0.58	0.00	0.181	o I	|	|	|	1.92
5.250	0.57	0.00	0.185	o I	|	|	|	1.96
5.333	0.61	0.00	0.189	o I	|	|	|	2.00
5.417	0.65	0.00	0.194	o I	|	|	|	2.05
5.500	0.65	0.00	0.198	o I	|	|	|	2.09
5.583	0.70	0.00	0.203	o I	|	|	|	2.14
5.667	0.74	0.00	0.208	o I	|	|	|	2.20
5.750	0.75	0.00	0.213	o I	|	|	|	2.25
5.833	0.75	0.00	0.218	o I	|	|	|	2.30
5.917	0.75	0.00	0.223	o I	|	|	|	2.36
6.000	0.75	0.00	0.228	o I	|	|	|	2.41
6.083	0.80	0.00	0.233	o I	|	|	|	2.47
6.167	0.84	0.00	0.239	o I	|	|	|	2.53
6.250	0.84	0.00	0.245	o I	|	|	|	2.59
6.333	0.84	0.00	0.251	o I	|	|	|	2.65
6.417	0.84	0.00	0.256	o I	|	|	|	2.71
6.500	0.84	0.00	0.262	o I	|	|	|	2.77
6.583	0.89	0.00	0.268	o I	|	|	|	2.83
6.667	0.93	0.00	0.274	o I	|	|	|	2.90
6.750	0.94	0.00	0.281	o I	|	|	|	2.97
6.833	0.94	0.00	0.287	o I	|	|	|	3.01
6.917	0.94	0.00	0.294	o I	|	|	|	3.03
7.000	0.94	0.00	0.300	o I	|	|	|	3.05
7.083	0.94	0.00	0.307	o I	|	|	|	3.07
7.167	0.94	0.00	0.313	o I	|	|	|	3.09
7.250	0.94	0.00	0.319	o I	|	|	|	3.12
7.333	0.98	0.00	0.326	o I	|	|	|	3.14
7.417	1.02	0.00	0.333	o I	|	|	|	3.16
7.500	1.03	0.00	0.340	o I	|	|	|	3.18
7.583	1.08	0.00	0.347	o I	|	|	|	3.21
7.667	1.12	0.00	0.355	o I	|	|	|	3.23
7.750	1.12	0.00	0.362	o I	|	|	|	3.26
7.833	1.17	0.00	0.370	o I	|	|	|	3.28
7.917	1.21	0.00	0.378	o I	|	|	|	3.31
8.000	1.22	0.00	0.387	o I	|	|	|	3.34
8.083	1.31	0.00	0.395	o I	|	|	|	3.37
8.167	1.39	0.00	0.405	o I	|	|	|	3.40
8.250	1.40	0.00	0.414	o I	|	|	|	3.43
8.333	1.41	0.00	0.424	o I	|	|	|	3.46
8.417	1.41	0.00	0.434	o I	|	|	|	3.49
8.500	1.41	0.00	0.443	o I	|	|	|	3.52
8.583	1.45	0.00	0.453	o I	|	|	|	3.55
8.667	1.49	0.00	0.463	o I	|	|	|	3.59
8.750	1.50	0.00	0.474	o I	|	|	|	3.62

8.833	1.55	0.00	0.484	o	|	I |	|	|	3.66
8.917	1.58	0.00	0.495	o	|	I |	|	|	3.69
9.000	1.59	0.00	0.506	o	|	I |	|	|	3.73
9.083	1.69	0.00	0.517	o	|	I |	|	|	3.76
9.167	1.76	0.00	0.529	o	|	I|	|	|	3.80
9.250	1.78	0.00	0.541	o	|	I|	|	|	3.84
9.333	1.83	0.00	0.553	o	|	I |	|	|	3.88
9.417	1.87	0.00	0.566	o	|	I |	|	|	3.92
9.500	1.87	0.00	0.579	o	|	I |	|	|	3.97
9.583	1.92	0.01	0.592	o	|	|I |	|	|	4.01
9.667	1.96	0.02	0.605	o	|	|I |	|	|	4.08
9.750	1.97	0.03	0.619	o	|	|I |	|	|	4.15
9.833	2.02	0.04	0.632	o	|	|I |	|	|	4.22
9.917	2.05	0.05	0.646	o	|	| I |	|	|	4.28
10.000	2.06	0.06	0.660	o	|	| I |	|	|	4.35
10.083	1.73	0.07	0.672	o	|	I|	|	|	4.42
10.167	1.47	0.07	0.683	o	I |	|	|	|	4.47
10.250	1.42	0.08	0.692	o	I |	|	|	|	4.52
10.333	1.41	0.09	0.701	o	I |	|	|	|	4.56
10.417	1.41	0.10	0.710	o	I |	|	|	|	4.61
10.500	1.41	0.10	0.719	o	I |	|	|	|	4.65
10.583	1.64	0.11	0.729	o	| I |	|	|	|	4.70
10.667	1.83	0.12	0.740	|o	|	I |	|	|	4.76
10.750	1.86	0.13	0.752	|o	|	I |	|	|	4.82
10.833	1.87	0.14	0.764	|o	|	I |	|	|	4.88
10.917	1.87	0.14	0.776	|o	|	I |	|	|	4.94
11.000	1.87	0.15	0.788	|o	|	I |	|	|	5.00
11.083	1.83	0.16	0.800	|o	|	I |	|	|	5.05
11.167	1.79	0.17	0.811	|o	|	I|	|	|	5.10
11.250	1.78	0.18	0.822	|o	|	I|	|	|	5.15
11.333	1.78	0.19	0.833	|o	|	I|	|	|	5.20
11.417	1.78	0.20	0.844	|o	|	I|	|	|	5.25
11.500	1.78	0.21	0.855	|o	|	I|	|	|	5.30
11.583	1.69	0.22	0.865	|o	| I |	|	|	|	5.34
11.667	1.61	0.23	0.875	| o	| I |	|	|	|	5.39
11.750	1.60	0.24	0.884	| o	| I |	|	|	|	5.43
11.833	1.64	0.25	0.894	| o	| I |	|	|	|	5.47
11.917	1.68	0.26	0.904	| o	| I |	|	|	|	5.52
12.000	1.69	0.26	0.913	| o	| I |	|	|	|	5.56
12.083	2.02	0.27	0.924	| o	| |I |	|	|	|	5.61
12.167	2.28	0.28	0.937	| o	| | I |	|	|	|	5.67
12.250	2.33	0.30	0.951	| o	| | I |	|	|	|	5.73
12.333	2.39	0.31	0.965	| o	| | I |	|	|	|	5.79
12.417	2.43	0.32	0.980	| o	| | I |	|	|	|	5.86
12.500	2.44	0.34	0.994	| o	| | I |	|	|	|	5.92
12.583	2.53	0.35	1.009	| o	| | I |	|	|	|	5.99
12.667	2.61	0.36	1.024	| o	| | I|	|	|	|	6.05
12.750	2.63	0.38	1.040	| o	| | I|	|	|	|	6.12
12.833	2.72	0.40	1.055	| o	| | I |	|	|	|	6.18
12.917	2.79	0.42	1.072	| o	| | I |	|	|	|	6.24
13.000	2.80	0.43	1.088	| o	| | I |	|	|	|	6.31
13.083	3.20	0.45	1.105	| o	| | |	| I |	|	|	6.38
13.167	3.51	0.47	1.125	| o	| | |	| | I|	|	|	6.46
13.250	3.57	0.50	1.146	| o	| | |	| | I|	|	|	6.55
13.333	3.59	0.52	1.168	| o	| | |	| | I|	|	|	6.63
13.417	3.60	0.54	1.189	| o	| | |	| | I|	|	|	6.72
13.500	3.61	0.57	1.210	| o	| | |	| | I|	|	|	6.80
13.583	2.88	0.59	1.228	| o	| | |	| | |I |	|	|	6.88
13.667	2.29	0.60	1.242	| o	| | |	| | I |	|	|	6.93
13.750	2.19	0.61	1.253	| o	| | |	| | I |	|	|	6.98
13.833	2.16	0.62	1.264	| o	| | |	| | I |	|	|	7.02
13.917	2.16	0.63	1.274	| o	| | |	| | I |	|	|	7.06
14.000	2.16	0.64	1.285	| o	| | |	| | I |	|	|	7.10
14.083	2.39	0.64	1.296	| o	| | |	| | I |	|	|	7.14
14.167	2.57	0.65	1.309	| o	| | |	| | I |	|	|	7.19
14.250	2.61	0.66	1.322	| o	| | |	| | I|	|	|	7.24
14.333	2.55	0.67	1.335	| o	| | |	| | I |	|	|	7.29
14.417	2.50	0.68	1.348	| o	| | |	| | I |	|	|	7.34
14.500	2.50	0.69	1.360	| o	| | |	| | I |	|	|	7.39
14.583	2.50	1.99	1.368	| |	| |o |	| | I |	|	|	7.42
14.667	2.51	2.51	1.370	| |	| | |	| | o |	|	|	7.42
14.750	2.51	2.51	1.370	| |	| | |	| | o |	|	|	7.42
14.833	2.44	2.48	1.370	| |	| | |	| | o |	|	|	7.42
14.917	2.39	2.42	1.370	| |	| | |	| | o |	|	|	7.42
15.000	2.39	2.39	1.370	| |	| | |	| | o |	|	|	7.42
15.083	2.32	2.35	1.370	| |	| | |	| | o |	|	|	7.42
15.167	2.26	2.29	1.369	| |	| | |	| | o |	|	|	7.42
15.250	2.26	2.26	1.369	| |	| | |	| | o |	|	|	7.42
15.333	2.21	2.23	1.369	| |	| | |	| o |	|	|	7.42
15.417	2.17	2.19	1.369	| |	| | |	| o |	|	|	7.42
15.500	2.16	2.16	1.369	| |	| | |	| o |	|	|	7.42
15.583	1.97	2.06	1.369	| |	| | |	|Io |	|	|	7.42
15.667	1.82	1.89	1.368	| |	| | o |	|	|	|	7.41
15.750	1.79	1.80	1.368	| |	| | o|	|	|	|	7.41
15.833	1.78	1.78	1.368	| |	| | o|	|	|	|	7.41
15.917	1.78	1.78	1.368	| |	| | o|	|	|	|	7.41
16.000	1.78	1.78	1.368	| |	| | o|	|	|	|	7.41

16.083	1.07	1.42	1.366	| | I O | | | | 7.41
16.167	0.50	0.78	1.364	| I O | | | | 7.40
16.250	0.40	0.69	1.362	| I O | | | | 7.39
16.333	0.37	0.69	1.360	| I O | | | | 7.39
16.417	0.37	0.69	1.358	| I O | | | | 7.38
16.500	0.37	0.68	1.356	| I O | | | | 7.37
16.583	0.33	0.68	1.354	| I O | | | | 7.36
16.667	0.29	0.68	1.351	| I O | | | | 7.35
16.750	0.28	0.68	1.348	| I O | | | | 7.34
16.833	0.28	0.68	1.346	| I O | | | | 7.33
16.917	0.28	0.68	1.343	| I O | | | | 7.32
17.000	0.28	0.67	1.340	| I O | | | | 7.31
17.083	0.38	0.67	1.338	| I O | | | | 7.30
17.167	0.45	0.67	1.336	| IO | | | | 7.29
17.250	0.46	0.67	1.335	| IO | | | | 7.29
17.333	0.47	0.67	1.333	| IO | | | | 7.28
17.417	0.47	0.67	1.332	| IO | | | | 7.28
17.500	0.47	0.67	1.331	| IO | | | | 7.27
17.583	0.47	0.67	1.329	| IO | | | | 7.27
17.667	0.47	0.67	1.328	| IO | | | | 7.26
17.750	0.47	0.66	1.326	| IO | | | | 7.26
17.833	0.42	0.66	1.325	| I O | | | | 7.25
17.917	0.38	0.66	1.323	| I O | | | | 7.25
18.000	0.38	0.66	1.321	| I O | | | | 7.24
18.083	0.37	0.66	1.319	| I O | | | | 7.23
18.167	0.37	0.66	1.317	| I O | | | | 7.22
18.250	0.37	0.66	1.315	| I O | | | | 7.22
18.333	0.37	0.66	1.313	| I O | | | | 7.21
18.417	0.37	0.65	1.311	| I O | | | | 7.20
18.500	0.37	0.65	1.310	| I O | | | | 7.19
18.583	0.33	0.65	1.308	| I O | | | | 7.19
18.667	0.29	0.65	1.305	| I O | | | | 7.18
18.750	0.28	0.65	1.303	| I O | | | | 7.17
18.833	0.23	0.65	1.300	| I O | | | | 7.16
18.917	0.20	0.64	1.297	| I O | | | | 7.15
19.000	0.19	0.64	1.294	| I O | | | | 7.14
19.083	0.23	0.64	1.291	| I O | | | | 7.12
19.167	0.27	0.64	1.288	| I O | | | | 7.11
19.250	0.28	0.64	1.286	| I O | | | | 7.10
19.333	0.33	0.64	1.284	| I O | | | | 7.10
19.417	0.37	0.63	1.282	| I O | | | | 7.09
19.500	0.37	0.63	1.280	| I O | | | | 7.08
19.583	0.33	0.63	1.278	| I O | | | | 7.07
19.667	0.29	0.63	1.276	| I O | | | | 7.07
19.750	0.28	0.63	1.273	| I O | | | | 7.06
19.833	0.23	0.63	1.271	| I O | | | | 7.05
19.917	0.20	0.62	1.268	| I O | | | | 7.04
20.000	0.19	0.62	1.265	| I O | | | | 7.03
20.083	0.23	0.62	1.262	| I O | | | | 7.02
20.167	0.27	0.62	1.260	| I O | | | | 7.01
20.250	0.28	0.62	1.257	| I O | | | | 7.00
20.333	0.28	0.61	1.255	| I O | | | | 6.99
20.417	0.28	0.61	1.253	| I O | | | | 6.98
20.500	0.28	0.61	1.250	| I O | | | | 6.97
20.583	0.28	0.61	1.248	| I O | | | | 6.96
20.667	0.28	0.60	1.246	| I O | | | | 6.95
20.750	0.28	0.60	1.244	| I O | | | | 6.94
20.833	0.23	0.60	1.241	| I O | | | | 6.93
20.917	0.20	0.60	1.239	| I O | | | | 6.92
21.000	0.19	0.59	1.236	| I O | | | | 6.91
21.083	0.23	0.59	1.233	| I O | | | | 6.90
21.167	0.27	0.59	1.231	| I O | | | | 6.89
21.250	0.28	0.59	1.229	| I O | | | | 6.88
21.333	0.23	0.58	1.226	| I O | | | | 6.87
21.417	0.20	0.58	1.224	| I O | | | | 6.86
21.500	0.19	0.58	1.221	| I O | | | | 6.85
21.583	0.23	0.58	1.219	| I O | | | | 6.84
21.667	0.27	0.57	1.217	| I O | | | | 6.83
21.750	0.28	0.57	1.215	| I O | | | | 6.82
21.833	0.23	0.57	1.212	| I O | | | | 6.82
21.917	0.20	0.57	1.210	| I O | | | | 6.81
22.000	0.19	0.56	1.207	| I O | | | | 6.79
22.083	0.23	0.56	1.205	| I O | | | | 6.79
22.167	0.27	0.56	1.203	| I O | | | | 6.78
22.250	0.28	0.56	1.201	| I O | | | | 6.77
22.333	0.23	0.55	1.199	| I O | | | | 6.76
22.417	0.20	0.55	1.197	| I O | | | | 6.75
22.500	0.19	0.55	1.194	| I O | | | | 6.74
22.583	0.19	0.55	1.192	| I O | | | | 6.73
22.667	0.19	0.54	1.189	| I O | | | | 6.72
22.750	0.19	0.54	1.187	| I O | | | | 6.71
22.833	0.19	0.54	1.184	| I O | | | | 6.70
22.917	0.19	0.54	1.182	| I O | | | | 6.69
23.000	0.19	0.53	1.179	| I O | | | | 6.68
23.083	0.19	0.53	1.177	| I O | | | | 6.67
23.167	0.19	0.53	1.175	| I O | | | | 6.66
23.250	0.19	0.53	1.172	| I O | | | | 6.65

23.333	0.19	0.52	1.170	|I O	|	|	|	6.64
23.417	0.19	0.52	1.168	|I O	|	|	|	6.63
23.500	0.19	0.52	1.166	|I O	|	|	|	6.63
23.583	0.19	0.52	1.163	|I O	|	|	|	6.62
23.667	0.19	0.51	1.161	|I O	|	|	|	6.61
23.750	0.19	0.51	1.159	|I O	|	|	|	6.60
23.833	0.19	0.51	1.157	|I O	|	|	|	6.59
23.917	0.19	0.51	1.154	|I O	|	|	|	6.58
24.000	0.19	0.50	1.152	|I O	|	|	|	6.57
24.083	0.09	0.50	1.150	I O	|	|	|	6.56
24.167	0.02	0.50	1.147	I O	|	|	|	6.55
24.250	0.00	0.49	1.143	I O	|	|	|	6.54
24.333	0.00	0.49	1.140	I O	|	|	|	6.52
24.417	0.00	0.49	1.137	I O	|	|	|	6.51
24.500	0.00	0.48	1.133	I O	|	|	|	6.49
24.583	0.00	0.48	1.130	I O	|	|	|	6.48
24.667	0.00	0.48	1.127	I O	|	|	|	6.47
24.750	0.00	0.47	1.123	I O	|	|	|	6.45
24.833	0.00	0.47	1.120	I O	|	|	|	6.44
24.917	0.00	0.46	1.117	I O	|	|	|	6.43
25.000	0.00	0.46	1.114	I O	|	|	|	6.42
25.083	0.00	0.46	1.111	I O	|	|	|	6.40
25.167	0.00	0.45	1.107	I O	|	|	|	6.39
25.250	0.00	0.45	1.104	I O	|	|	|	6.38
25.333	0.00	0.45	1.101	I O	|	|	|	6.37
25.417	0.00	0.44	1.098	I O	|	|	|	6.35
25.500	0.00	0.44	1.095	I O	|	|	|	6.34
25.583	0.00	0.44	1.092	I O	|	|	|	6.33
25.667	0.00	0.43	1.089	I O	|	|	|	6.32
25.750	0.00	0.43	1.086	I O	|	|	|	6.30
25.833	0.00	0.43	1.083	I O	|	|	|	6.29
25.917	0.00	0.43	1.080	I O	|	|	|	6.28
26.000	0.00	0.42	1.077	I O	|	|	|	6.27
26.083	0.00	0.42	1.074	I O	|	|	|	6.26
26.167	0.00	0.42	1.071	I O	|	|	|	6.24
26.250	0.00	0.41	1.069	I O	|	|	|	6.23
26.333	0.00	0.41	1.066	I O	|	|	|	6.22
26.417	0.00	0.41	1.063	I O	|	|	|	6.21
26.500	0.00	0.40	1.060	I O	|	|	|	6.20
26.583	0.00	0.40	1.057	I O	|	|	|	6.19
26.667	0.00	0.40	1.055	I O	|	|	|	6.18
26.750	0.00	0.39	1.052	I O	|	|	|	6.17
26.833	0.00	0.39	1.049	I O	|	|	|	6.15
26.917	0.00	0.39	1.047	I O	|	|	|	6.14
27.000	0.00	0.39	1.044	I O	|	|	|	6.13
27.083	0.00	0.38	1.041	I O	|	|	|	6.12
27.167	0.00	0.38	1.039	I O	|	|	|	6.11
27.250	0.00	0.38	1.036	I O	|	|	|	6.10
27.333	0.00	0.37	1.033	I O	|	|	|	6.09
27.417	0.00	0.37	1.031	I O	|	|	|	6.08
27.500	0.00	0.37	1.028	I O	|	|	|	6.07
27.583	0.00	0.37	1.026	I O	|	|	|	6.06
27.667	0.00	0.36	1.023	I O	|	|	|	6.05
27.750	0.00	0.36	1.021	I O	|	|	|	6.04
27.833	0.00	0.36	1.018	I O	|	|	|	6.03
27.917	0.00	0.36	1.016	I O	|	|	|	6.02
28.000	0.00	0.35	1.013	I O	|	|	|	6.01
28.083	0.00	0.35	1.011	I O	|	|	|	6.00
28.167	0.00	0.35	1.009	I O	|	|	|	5.99
28.250	0.00	0.35	1.006	I O	|	|	|	5.98
28.333	0.00	0.34	1.004	I O	|	|	|	5.97
28.417	0.00	0.34	1.001	I O	|	|	|	5.96
28.500	0.00	0.34	0.999	I O	|	|	|	5.95
28.583	0.00	0.34	0.997	I O	|	|	|	5.94
28.667	0.00	0.34	0.994	I O	|	|	|	5.93
28.750	0.00	0.33	0.992	I O	|	|	|	5.92
28.833	0.00	0.33	0.990	I O	|	|	|	5.90
28.917	0.00	0.33	0.988	I O	|	|	|	5.89
29.000	0.00	0.33	0.985	I O	|	|	|	5.88
29.083	0.00	0.33	0.983	I O	|	|	|	5.87
29.167	0.00	0.32	0.981	I O	|	|	|	5.86
29.250	0.00	0.32	0.979	I O	|	|	|	5.85
29.333	0.00	0.32	0.976	I O	|	|	|	5.84
29.417	0.00	0.32	0.974	I O	|	|	|	5.83
29.500	0.00	0.32	0.972	I O	|	|	|	5.82
29.583	0.00	0.31	0.970	I O	|	|	|	5.81
29.667	0.00	0.31	0.968	I O	|	|	|	5.81
29.750	0.00	0.31	0.966	I O	|	|	|	5.80
29.833	0.00	0.31	0.963	I O	|	|	|	5.79
29.917	0.00	0.31	0.961	I O	|	|	|	5.78
30.000	0.00	0.30	0.959	I O	|	|	|	5.77
30.083	0.00	0.30	0.957	I O	|	|	|	5.76
30.167	0.00	0.30	0.955	I O	|	|	|	5.75
30.250	0.00	0.30	0.953	I O	|	|	|	5.74
30.333	0.00	0.30	0.951	I O	|	|	|	5.73
30.417	0.00	0.30	0.949	I O	|	|	|	5.72
30.500	0.00	0.29	0.947	I O	|	|	|	5.71

30.583	0.00	0.29	0.945	I O				5.70
30.667	0.00	0.29	0.943	I O				5.69
30.750	0.00	0.29	0.941	I O				5.68
30.833	0.00	0.29	0.939	I O				5.68
30.917	0.00	0.28	0.937	I O				5.67
31.000	0.00	0.28	0.935	I O				5.66
31.083	0.00	0.28	0.933	I O				5.65
31.167	0.00	0.28	0.931	I O				5.64
31.250	0.00	0.28	0.929	I O				5.63
31.333	0.00	0.28	0.927	I O				5.62
31.417	0.00	0.27	0.925	I O				5.61
31.500	0.00	0.27	0.924	I O				5.61
31.583	0.00	0.27	0.922	I O				5.60
31.667	0.00	0.27	0.920	I O				5.59
31.750	0.00	0.27	0.918	I O				5.58
31.833	0.00	0.27	0.916	I O				5.57
31.917	0.00	0.26	0.914	I O				5.56
32.000	0.00	0.26	0.912	I O				5.56
32.083	0.00	0.26	0.911	I O				5.55
32.167	0.00	0.26	0.909	I O				5.54
32.250	0.00	0.26	0.907	I O				5.53
32.333	0.00	0.26	0.905	I O				5.52
32.417	0.00	0.26	0.904	I O				5.52
32.500	0.00	0.25	0.902	I O				5.51
32.583	0.00	0.25	0.900	I O				5.50
32.667	0.00	0.25	0.898	I O				5.49
32.750	0.00	0.25	0.897	I O				5.48
32.833	0.00	0.25	0.895	I O				5.48
32.917	0.00	0.25	0.893	I O				5.47
33.000	0.00	0.24	0.891	I O				5.46
33.083	0.00	0.24	0.890	I O				5.45
33.167	0.00	0.24	0.888	I O				5.45
33.250	0.00	0.24	0.886	I O				5.44
33.333	0.00	0.24	0.885	I O				5.43
33.417	0.00	0.24	0.883	I O				5.42
33.500	0.00	0.24	0.882	I O				5.42
33.583	0.00	0.23	0.880	I O				5.41
33.667	0.00	0.23	0.878	I O				5.40
33.750	0.00	0.23	0.877	I O				5.40
33.833	0.00	0.23	0.875	I O				5.39
33.917	0.00	0.23	0.874	I O				5.38
34.000	0.00	0.23	0.872	I O				5.37
34.083	0.00	0.23	0.870	I O				5.37
34.167	0.00	0.22	0.869	IO				5.36
34.250	0.00	0.22	0.867	IO				5.35
34.333	0.00	0.22	0.866	IO				5.35
34.417	0.00	0.22	0.864	IO				5.34
34.500	0.00	0.22	0.863	IO				5.33
34.583	0.00	0.22	0.861	IO				5.33
34.667	0.00	0.22	0.860	IO				5.32
34.750	0.00	0.22	0.858	IO				5.31
34.833	0.00	0.21	0.857	IO				5.31
34.917	0.00	0.21	0.855	IO				5.30
35.000	0.00	0.21	0.854	IO				5.29
35.083	0.00	0.21	0.852	IO				5.29
35.167	0.00	0.21	0.851	IO				5.28
35.250	0.00	0.21	0.850	IO				5.27
35.333	0.00	0.21	0.848	IO				5.27
35.417	0.00	0.20	0.847	IO				5.26
35.500	0.00	0.20	0.845	IO				5.25
35.583	0.00	0.20	0.844	IO				5.25
35.667	0.00	0.20	0.843	IO				5.24
35.750	0.00	0.20	0.841	IO				5.23
35.833	0.00	0.20	0.840	IO				5.23
35.917	0.00	0.20	0.838	IO				5.22
36.000	0.00	0.20	0.837	IO				5.22
36.083	0.00	0.20	0.836	IO				5.21
36.167	0.00	0.19	0.834	IO				5.20
36.250	0.00	0.19	0.833	IO				5.20
36.333	0.00	0.19	0.832	IO				5.19
36.417	0.00	0.19	0.830	IO				5.19
36.500	0.00	0.19	0.829	IO				5.18
36.583	0.00	0.19	0.828	IO				5.17
36.667	0.00	0.19	0.826	IO				5.17
36.750	0.00	0.19	0.825	IO				5.16
36.833	0.00	0.18	0.824	IO				5.16
36.917	0.00	0.18	0.823	IO				5.15
37.000	0.00	0.18	0.821	IO				5.15
37.083	0.00	0.18	0.820	IO				5.14
37.167	0.00	0.18	0.819	IO				5.13
37.250	0.00	0.18	0.818	IO				5.13
37.333	0.00	0.18	0.816	IO				5.12
37.417	0.00	0.18	0.815	IO				5.12
37.500	0.00	0.18	0.814	IO				5.11
37.583	0.00	0.17	0.813	IO				5.11
37.667	0.00	0.17	0.812	IO				5.10
37.750	0.00	0.17	0.810	IO				5.10

37.833	0.00	0.17	0.809	IO				5.09
37.917	0.00	0.17	0.808	IO				5.09
38.000	0.00	0.17	0.807	IO				5.08
38.083	0.00	0.17	0.806	IO				5.08
38.167	0.00	0.17	0.805	IO				5.07
38.250	0.00	0.17	0.803	IO				5.06
38.333	0.00	0.17	0.802	IO				5.06
38.417	0.00	0.16	0.801	IO				5.05
38.500	0.00	0.16	0.800	IO				5.05
38.583	0.00	0.16	0.799	IO				5.04
38.667	0.00	0.16	0.798	IO				5.04
38.750	0.00	0.16	0.797	IO				5.03
38.833	0.00	0.16	0.795	IO				5.03
38.917	0.00	0.16	0.794	IO				5.02
39.000	0.00	0.16	0.793	IO				5.02
39.083	0.00	0.16	0.792	IO				5.01
39.167	0.00	0.16	0.791	IO				5.01
39.250	0.00	0.15	0.790	IO				5.00
39.333	0.00	0.15	0.789	IO				5.00
39.417	0.00	0.15	0.788	IO				4.99
39.500	0.00	0.15	0.787	IO				4.99
39.583	0.00	0.15	0.786	IO				4.98
39.667	0.00	0.15	0.785	IO				4.98
39.750	0.00	0.15	0.784	IO				4.97
39.833	0.00	0.15	0.783	IO				4.97
39.917	0.00	0.15	0.782	IO				4.96
40.000	0.00	0.15	0.781	IO				4.96
40.083	0.00	0.15	0.780	IO				4.95
40.167	0.00	0.15	0.779	IO				4.95
40.250	0.00	0.15	0.778	IO				4.94
40.333	0.00	0.14	0.777	IO				4.94
40.417	0.00	0.14	0.776	IO				4.93
40.500	0.00	0.14	0.775	IO				4.93
40.583	0.00	0.14	0.774	IO				4.92
40.667	0.00	0.14	0.773	IO				4.92
40.750	0.00	0.14	0.772	IO				4.91
40.833	0.00	0.14	0.771	IO				4.91
40.917	0.00	0.14	0.770	IO				4.90
41.000	0.00	0.14	0.769	IO				4.90
41.083	0.00	0.14	0.768	IO				4.89
41.167	0.00	0.14	0.767	IO				4.89
41.250	0.00	0.14	0.766	IO				4.89
41.333	0.00	0.14	0.765	IO				4.88
41.417	0.00	0.14	0.764	IO				4.88
41.500	0.00	0.13	0.763	IO				4.87
41.583	0.00	0.13	0.762	IO				4.87
41.667	0.00	0.13	0.761	IO				4.86
41.750	0.00	0.13	0.760	IO				4.86
41.833	0.00	0.13	0.760	IO				4.85
41.917	0.00	0.13	0.759	IO				4.85
42.000	0.00	0.13	0.758	IO				4.84
42.083	0.00	0.13	0.757	IO				4.84
42.167	0.00	0.13	0.756	IO				4.83
42.250	0.00	0.13	0.755	IO				4.83
42.333	0.00	0.13	0.754	IO				4.83
42.417	0.00	0.13	0.753	IO				4.82
42.500	0.00	0.13	0.752	IO				4.82
42.583	0.00	0.13	0.752	IO				4.81
42.667	0.00	0.13	0.751	IO				4.81
42.750	0.00	0.12	0.750	IO				4.80
42.833	0.00	0.12	0.749	IO				4.80
42.917	0.00	0.12	0.748	IO				4.80
43.000	0.00	0.12	0.747	IO				4.79
43.083	0.00	0.12	0.746	IO				4.79
43.167	0.00	0.12	0.746	IO				4.78
43.250	0.00	0.12	0.745	IO				4.78
43.333	0.00	0.12	0.744	IO				4.77
43.417	0.00	0.12	0.743	IO				4.77
43.500	0.00	0.12	0.742	IO				4.77
43.583	0.00	0.12	0.741	IO				4.76
43.667	0.00	0.12	0.741	IO				4.76
43.750	0.00	0.12	0.740	IO				4.75
43.833	0.00	0.12	0.739	IO				4.75
43.917	0.00	0.12	0.738	IO				4.75
44.000	0.00	0.12	0.737	IO				4.74
44.083	0.00	0.11	0.737	IO				4.74
44.167	0.00	0.11	0.736	IO				4.73
44.250	0.00	0.11	0.735	IO				4.73
44.333	0.00	0.11	0.734	IO				4.73
44.417	0.00	0.11	0.734	O				4.72
44.500	0.00	0.11	0.733	O				4.72
44.583	0.00	0.11	0.732	O				4.71
44.667	0.00	0.11	0.731	O				4.71
44.750	0.00	0.11	0.730	O				4.71
44.833	0.00	0.11	0.730	O				4.70
44.917	0.00	0.11	0.729	O				4.70
45.000	0.00	0.11	0.728	O				4.70

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45.083    0.00    0.11      0.727  o       |       |       |       |     4.69
45.167    0.00    0.11      0.727  o       |       |       |       |     4.69
45.250    0.00    0.11      0.726  o       |       |       |       |     4.68
45.333    0.00    0.11      0.725  o       |       |       |       |     4.68
45.417    0.00    0.11      0.725  o       |       |       |       |     4.68
45.500    0.00    0.11      0.724  o       |       |       |       |     4.67
45.583    0.00    0.10      0.723  o       |       |       |       |     4.67
45.667    0.00    0.10      0.722  o       |       |       |       |     4.67
45.750    0.00    0.10      0.722  o       |       |       |       |     4.66
45.833    0.00    0.10      0.721  o       |       |       |       |     4.66
45.917    0.00    0.10      0.720  o       |       |       |       |     4.66
46.000    0.00    0.10      0.720  o       |       |       |       |     4.65
46.083    0.00    0.10      0.719  o       |       |       |       |     4.65
46.167    0.00    0.10      0.718  o       |       |       |       |     4.65
46.250    0.00    0.10      0.717  o       |       |       |       |     4.64
46.333    0.00    0.10      0.717  o       |       |       |       |     4.64

       Remaining water in basin =    0.72 (Ac.Ft)

       ****************************HYDROGRAPH DATA****************************
                     Number of intervals =   556
                     Time interval =    5.0 (Min.)
                     Maximum/Peak flow rate =        2.511 (CFS)
                     Total volume =       1.244 (Ac.Ft)
              Status of hydrographs being held in storage
                           Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
              Peak (CFS)      0.000     0.000     0.000     0.000     0.000
              Vol (Ac.Ft)      0.000     0.000     0.000     0.000     0.000
       ***********************************************************************

       ----------------------------------------------------------------------
```

SOUTH

Storm Event	Existing		Proposed		Proposed		
	cfs	volume ac.ft.	cfs	volume ac.ft.	cfs	volume ac.ft.	Depth
2yr1hr	5.977	0.1157	8.970	0.2803	0.003	0.2800	2.92
2yr3hr	1.402	0.0798	4.498	0.4084	0.004	0.4080	3.69
2yr6hr	1.378	0.1115	4.548	0.6128	0.006	0.6110	4.74
2yr24hr	0.244	0.1480	1.510	0.9179	0.110	0.8380	5.70
5yr1hr	9.090	0.1823	12.688	0.3843	0.004	0.3840	3.55
5yr3hr	3.441	0.1504	6.658	0.5528	0.005	0.5520	4.45
5yr6hr	2.905	0.1720	6.169	0.7755	0.070	0.7710	5.43
5yr24hr	0.329	0.2001	2.041	1.2404	0.222	1.0840	6.60
10yr1hr	13.517	0.3430	16.350	0.4887	0.005	0.4880	4.14
10yr3hr	6.992	0.3184	9.183	0.6979	0.026	0.6970	5.13
10yr6hr	6.208	0.3463	8.351	0.9336	0.159	0.9230	6.04
10yr24hr	0.744	0.2529	2.443	1.4843	0.367	1.2710	7.21
100yr1hr	22.524	0.6803	26.002	0.8126	0.093	0.8100	5.59
100yr3hr	12.524	0.7068	15.014	1.1327	0.236	1.1200	6.72
100yr6hr	10.583	0.7142	12.965	1.4146	0.522	1.3780	7.53
100yr24hr	2.895	0.7207	4.277	2.3232	2.965	1.5190	7.89

Basin Size and Flow Calculations

SOUTH 100YR24HR= 1.6025

10yr24hr= 1.2314

	BASIN PARAMETERS					OUTLET								
Basin Elevation	Depth	Area S.F.	Volume C.F.	Volume AC-FT	Effective Volume AC-FT	Q_1 Orrifice Plate (cfs)	Q_2 Orrifice Plate (cfs)	Q_3 Orrifice Plate (cfs)	Q_4 Orrifice Plate (cfs)	Q_5Orrifice Plate (cfs)	Q_6 Orrifice Plate (cfs)	Q_7Orrifice Plate (cfs)	Q Weir 1 (cfs)	Q Total (cfs)
1577.00	0.00	2,428.00	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1578.00	1.00	3,036.00	2,732.00	0.063	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1579.00	2.00	3,036.00	5,464.00	0.125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1580.00	3.00	6,072.00	12,750.00	0.293	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1581.00	4.00	7,566.00	19,988.00	0.459	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1582.00	5.00	9,140.00	28,920.00	0.664	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1583.00	6.00	10,794.00	39,666.00	0.911	0.247	0.154	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.154
1584.00	7.00	12,529.00	52,349.50	1.202	0.538	0.268	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.268
1584.85	7.85	14,071.00	64,758.57	1.487	0.823	0.335	0.343	0.000	0.000	0.000	0.000	0.000	0.000	0.678
1585.20	8.20	16,657.00	78,248.50	1.796	1.132	0.359	0.438	0.000	0.000	0.000	0.000	0.000	22.065	22.862

SUPPORTING DESIGN PARAMETERS

Orifice Coefficient	0.66	Dia of Orrifice	2.75	4.00							0.00
Gravimetric Constant	32.2 ft/s^2	Eff Dia of Orrifice	0.2292	0.3333	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Number of Rows	1	Area of Orrifice	0.0412	0.0873	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Minimum Orrifice Plate Height		Number of Orrifeces	1	1	1	1	1	1	1	1	
Minimum Orrifice Plate Width		Centroid Elev	1582.5	1584.3							0
			.			Weir		Sharp Crest Weir Coefficient			3.33
								Length of Weir			32.00
								Elev. at Crest of Weir			1584.85

Orifice Equation

$Q=Cd(1/4\pi D2)\sqrt{2gh}$

Weir Equation

(Q/(Weir Length* Weir Coefficent))^(2/3)

Q100 Elevation Weir Calc		
2 - 4' X 4' Box Inlet Weir Calc		
Crest Wier Elev.	1584.85	
Q100	20.28	cfs
Weir Length	32	
Weir Coeff.	3.33	
H Weir	0.330863728	
Q100 Elevation	**1585.18**	

Q100 Elevation Weir Calc		
Basin Emergency Spillway Weir Calc		
Crest Wier Elev.	1584.20	
Q100	20.28	cfs
Weir Length	40	
Weir Coeff.	3.33	
H Weir	0.285129718	
Q100 Elevation	**1584.49**	

```
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---------------------------------------------------------------------
******************** HYDROGRAPH INFORMATION **********************

               From study/file name: pro1212.rte
*****************************HYDROGRAPH DATA*****************************
               Number of intervals =    15
               Time interval =    5.0 (Min.)
               Maximum/Peak flow rate =        8.970 (CFS)
               Total volume =        0.280 (Ac.Ft)
       Status of hydrographs being held in storage
                  Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
       Peak (CFS)      0.000     0.000     0.000     0.000     0.000
       Vol (Ac.Ft)      0.000     0.000     0.000     0.000     0.000
*************************************************************************



+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        1.000 to Point/Station        2.000
**** RETARDING BASIN ROUTING ****
_________________________________________________________________________

User entry of depth-outflow-storage data
-------------------------------------------------------------------------
Total number of inflow hydrograph intervals = 15
Hydrograph time unit =  5.000 (Min.)
Initial depth in storage basin =   0.00(Ft.)
-------------------------------------------------------------------------
-------------------------------------------------------------------------
Initial basin depth =   0.00 (Ft.)
Initial basin storage =      0.00 (Ac.Ft)
Initial basin outflow =   0.00 (CFS)
-------------------------------------------------------------------------
-------------------------------------------------------------------------
Depth vs. Storage and Depth vs. Discharge data:
 Basin Depth  Storage    Outflow   (S-O*dt/2)   (S+O*dt/2)
     (Ft.)    (Ac.Ft)    (CFS)     (Ac.Ft)    (Ac.Ft)
-------------------------------------------------------------------------
   0.000      0.000      0.000      0.000        0.000
   1.000      0.063      0.001      0.063        0.063
   2.000      0.125      0.002      0.125        0.125
   3.000      0.293      0.003      0.293        0.293
   4.000      0.459      0.005      0.459        0.459
   5.000      0.664      0.006      0.664        0.664
   6.000      0.911      0.154      0.910        0.912
   7.000      1.202      0.268      1.201        1.203
   7.850      1.487      0.678      1.485        1.489
   8.200      1.796     22.862      1.717        1.875
-------------------------------------------------------------------------
               Hydrograph Detention Basin Routing
-------------------------------------------------------------------------

      Graph values: 'I'= unit inflow; 'O'=outflow at time shown
      ---------------------------------------------------------------
 Time   Inflow  Outflow    Storage                                  Depth
(Hours)  (CFS)   (CFS)     (Ac.Ft) .0       2.2    4.49    6.73    8.97 (Ft.)
 0.083    0.72    0.00      0.002  O I     |       |       |       |     0.04
 0.167    1.39    0.00      0.010  O   I   |       |       |       |     0.15
 0.250    1.65    0.00      0.020  O    I  |       |       |       |     0.32
 0.333    1.82    0.00      0.032  O     I |       |       |       |     0.51
 0.417    1.98    0.00      0.045  O      I|       |       |       |     0.72
 0.500    2.23    0.00      0.060  O      I|       |       |       |     0.95
 0.583    2.52    0.00      0.076  O       I       |       |       |     1.21
 0.667    2.90    0.00      0.095  O       | I     |       |       |     1.51
 0.750    3.76    0.00      0.118  O       |    I  |       |       |     1.88
 0.833    8.97    0.00      0.162  O       |       |       |      I|     2.22
 0.917    7.74    0.00      0.219  O       |       |       |  I    |     2.56
 1.000    3.25    0.00      0.257  O       |  I    |       |       |     2.78
 1.083    1.48    0.00      0.273  O    I  |       |       |       |     2.88
 1.167    0.24    0.00      0.279  O       |       |       |       |     2.92
 1.250    0.06    0.00      0.280  O       |       |       |       |     2.92
 1.333    0.00    0.00      0.280  O       |       |       |       |     2.92


      Remaining water in basin =    0.28 (Ac.Ft)
```

```
****************************HYDROGRAPH DATA****************************
               Number of intervals =    16
               Time interval =    5.0 (Min.)
               Maximum/Peak flow rate =        0.003 (CFS)
               Total volume =       0.000 (Ac.Ft)
        Status of hydrographs being held in storage
                  Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
        Peak (CFS)      0.000     0.000     0.000     0.000     0.000
        Vol (Ac.Ft)      0.000     0.000     0.000     0.000     0.000
************************************************************************

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******************** HYDROGRAPH INFORMATION **********************

               From study/file name: pro1232.rte
*****************************HYDROGRAPH DATA*****************************
               Number of intervals =    39
               Time interval =    5.0 (Min.)
               Maximum/Peak flow rate =        4.498 (CFS)
               Total volume =       0.408 (Ac.Ft)
       Status of hydrographs being held in storage
                    Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
       Peak (CFS)      0.000     0.000     0.000     0.000     0.000
       Vol (Ac.Ft)     0.000     0.000     0.000     0.000     0.000
************************************************************************



++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        1.000 to Point/Station        2.000
**** RETARDING BASIN ROUTING ****
____________________________________________________________________________

User entry of depth-outflow-storage data
------------------------------------------------------------------------
Total number of inflow hydrograph intervals = 39
Hydrograph time unit =  5.000 (Min.)
Initial depth in storage basin =   0.00(Ft.)
------------------------------------------------------------------------
------------------------------------------------------------------------
Initial basin depth =   0.00 (Ft.)
Initial basin storage =      0.00 (Ac.Ft)
Initial basin outflow =   0.00 (CFS)
------------------------------------------------------------------------
------------------------------------------------------------------------
Depth vs. Storage and Depth vs. Discharge data:
 Basin Depth  Storage    Outflow   (S-O*dt/2)   (S+O*dt/2)
     (Ft.)    (Ac.Ft)    (CFS)     (Ac.Ft)    (Ac.Ft)
------------------------------------------------------------------------
   0.000      0.000      0.000      0.000        0.000
   1.000      0.063      0.001      0.063        0.063
   2.000      0.125      0.002      0.125        0.125
   3.000      0.293      0.003      0.293        0.293
   4.000      0.459      0.005      0.459        0.459
   5.000      0.664      0.006      0.664        0.664
   6.000      0.911      0.154      0.910        0.912
   7.000      1.202      0.268      1.201        1.203
   7.850      1.487      0.678      1.485        1.489
   8.200      1.796     22.862      1.717        1.875
------------------------------------------------------------------------
               Hydrograph Detention Basin Routing
------------------------------------------------------------------------

Graph values: 'I'= unit inflow; 'O'=outflow at time shown
------------------------------------------------------------------------
  Time   Inflow  Outflow    Storage                                    Depth
 (Hours)  (CFS)   (CFS)     (Ac.Ft) .0       1.1    2.25    3.37    4.50 (Ft.)
  0.083    0.36    0.00      0.001  O I     |       |       |       |     0.02
  0.167    0.68    0.00      0.005  O   I   |       |       |       |     0.08
  0.250    0.69    0.00      0.010  O   I   |       |       |       |     0.15
  0.333    0.78    0.00      0.015  O    I  |       |       |       |     0.23
  0.417    0.87    0.00      0.020  O     I |       |       |       |     0.32
  0.500    0.96    0.00      0.026  O     I |       |       |       |     0.42
  0.583    0.96    0.00      0.033  O     I |       |       |       |     0.53
  0.667    0.99    0.00      0.040  O      I|       |       |       |     0.63
  0.750    1.05    0.00      0.047  O      I|       |       |       |     0.74
  0.833    0.98    0.00      0.054  O     I |       |       |       |     0.85
  0.917    0.94    0.00      0.060  O     I |       |       |       |     0.96
  1.000    1.00    0.00      0.067  O      I|       |       |       |     1.07
  1.083    1.16    0.00      0.075  O       I       |       |       |     1.19
  1.167    1.27    0.00      0.083  O       |I      |       |       |     1.32
  1.250    1.30    0.00      0.092  O       |I      |       |       |     1.46
  1.333    1.25    0.00      0.100  O       I       |       |       |     1.60
  1.417    1.36    0.00      0.109  O       |I      |       |       |     1.75
  1.500    1.53    0.00      0.119  O       | I     |       |       |     1.91
```

```
1.583    1.50    0.00      0.130  O       | I     |       |       |     2.03
1.667    1.52    0.00      0.140  O       | I     |       |       |     2.09
1.750    1.75    0.00      0.151  O       |   I   |       |       |     2.16
1.833    1.85    0.00      0.164  O       |    I  |       |       |     2.23
1.917    1.78    0.00      0.176  O       |   I   |       |       |     2.31
2.000    1.76    0.00      0.189  O       |   I   |       |       |     2.38
2.083    1.80    0.00      0.201  O       |   I   |       |       |     2.45
2.167    2.13    0.00      0.214  O       |      I|       |       |     2.53
2.250    2.63    0.00      0.231  O       |       | I     |       |     2.63
2.333    2.47    0.00      0.248  O       |       |I      |       |     2.73
2.417    3.07    0.00      0.267  O       |       |   I   |       |     2.85
2.500    3.97    0.00      0.291  O       |       |       |   I   |     2.99
2.583    4.50    0.00      0.321  O       |       |       |      I|     3.17
2.667    4.18    0.00      0.350  O       |       |       |    I  |     3.35
2.750    2.57    0.00      0.374  O       |       | I     |       |     3.49
2.833    1.44    0.00      0.387  O       | I     |       |       |     3.57
2.917    1.16    0.00      0.396  O      I|       |       |       |     3.62
3.000    0.74    0.00      0.403  O    I  |       |       |       |     3.66
3.083    0.27    0.00      0.406  OI     |       |       |       |     3.68
3.167    0.07    0.00      0.408  O       |       |       |       |     3.69
3.250    0.01    0.00      0.408  O       |       |       |       |     3.69
3.333    0.00    0.00      0.408  O       |       |       |       |     3.69

 Remaining water in basin =    0.41 (Ac.Ft)

 ****************************HYDROGRAPH DATA****************************
               Number of intervals =    40
               Time interval =    5.0 (Min.)
               Maximum/Peak flow rate =        0.004 (CFS)
               Total volume =       0.001 (Ac.Ft)
        Status of hydrographs being held in storage
                     Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
        Peak (CFS)       0.000     0.000     0.000     0.000     0.000
        Vol (Ac.Ft)      0.000     0.000     0.000     0.000     0.000
 ************************************************************************

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******************** HYDROGRAPH INFORMATION **********************

               From study/file name: pro1262.rte
*****************************HYDROGRAPH DATA*****************************
               Number of intervals =    75
               Time interval =    5.0 (Min.)
               Maximum/Peak flow rate =        4.548 (CFS)
               Total volume =       0.613 (Ac.Ft)
       Status of hydrographs being held in storage
                    Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
       Peak (CFS)      0.000     0.000     0.000     0.000     0.000
       Vol (Ac.Ft)     0.000     0.000     0.000     0.000     0.000
************************************************************************



++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        1.000 to Point/Station        2.000
**** RETARDING BASIN ROUTING ****
____________________________________________________________________________

User entry of depth-outflow-storage data
------------------------------------------------------------------------
Total number of inflow hydrograph intervals = 75
Hydrograph time unit =  5.000 (Min.)
Initial depth in storage basin =   0.00(Ft.)
------------------------------------------------------------------------
------------------------------------------------------------------------
Initial basin depth =   0.00 (Ft.)
Initial basin storage =      0.00 (Ac.Ft)
Initial basin outflow =   0.00 (CFS)
------------------------------------------------------------------------
------------------------------------------------------------------------
Depth vs. Storage and Depth vs. Discharge data:
 Basin Depth  Storage    Outflow   (S-O*dt/2)   (S+O*dt/2)
     (Ft.)    (Ac.Ft)    (CFS)     (Ac.Ft)    (Ac.Ft)
------------------------------------------------------------------------
   0.000      0.000      0.000      0.000        0.000
   1.000      0.063      0.001      0.063        0.063
   2.000      0.125      0.002      0.125        0.125
   3.000      0.293      0.003      0.293        0.293
   4.000      0.459      0.005      0.459        0.459
   5.000      0.664      0.006      0.664        0.664
   6.000      0.911      0.154      0.910        0.912
   7.000      1.202      0.268      1.201        1.203
   7.850      1.487      0.678      1.485        1.489
   8.200      1.796     22.862      1.717        1.875
------------------------------------------------------------------------
               Hydrograph Detention Basin Routing
------------------------------------------------------------------------

Graph values: 'I'= unit inflow; 'O'=outflow at time shown
------------------------------------------------------------------------
 Time   Inflow  Outflow    Storage                                    Depth
(Hours) (CFS)   (CFS)     (Ac.Ft) .0       1.1    2.27    3.41    4.55 (Ft.)
 0.083    0.21    0.00      0.001  OI      |       |       |       |     0.01
 0.167    0.43    0.00      0.003  O  I    |       |       |       |     0.05
 0.250    0.51    0.00      0.006  O  I    |       |       |       |     0.10
 0.333    0.53    0.00      0.010  O  I    |       |       |       |     0.15
 0.417    0.53    0.00      0.013  O  I    |       |       |       |     0.21
 0.500    0.57    0.00      0.017  O   I   |       |       |       |     0.27
 0.583    0.61    0.00      0.021  O   I   |       |       |       |     0.34
 0.667    0.62    0.00      0.026  O   I   |       |       |       |     0.41
 0.750    0.62    0.00      0.030  O   I   |       |       |       |     0.47
 0.833    0.62    0.00      0.034  O   I   |       |       |       |     0.54
 0.917    0.62    0.00      0.038  O   I   |       |       |       |     0.61
 1.000    0.66    0.00      0.043  O   I   |       |       |       |     0.68
 1.083    0.70    0.00      0.047  O   I   |       |       |       |     0.75
 1.167    0.71    0.00      0.052  O   I   |       |       |       |     0.83
 1.250    0.71    0.00      0.057  O    I  |       |       |       |     0.91
 1.333    0.71    0.00      0.062  O    I  |       |       |       |     0.99
 1.417    0.71    0.00      0.067  O    I  |       |       |       |     1.06
 1.500    0.71    0.00      0.072  O    I  |       |       |       |     1.14
```

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1.583    0.71    0.00      0.077  O    I  |        |        |        |     1.22
1.667    0.71    0.00      0.082  O    I  |        |        |        |     1.30
1.750    0.71    0.00      0.087  O    I  |        |        |        |     1.38
1.833    0.71    0.00      0.091  O    I  |        |        |        |     1.46
1.917    0.71    0.00      0.096  O    I  |        |        |        |     1.54
2.000    0.75    0.00      0.101  O    I  |        |        |        |     1.62
2.083    0.75    0.00      0.106  O    I  |        |        |        |     1.70
2.167    0.76    0.00      0.112  O    I  |        |        |        |     1.78
2.250    0.79    0.00      0.117  O    I  |        |        |        |     1.87
2.333    0.80    0.00      0.122  O    I  |        |        |        |     1.96
2.417    0.80    0.00      0.128  O    I  |        |        |        |     2.02
2.500    0.80    0.00      0.133  O    I  |        |        |        |     2.05
2.583    0.80    0.00      0.139  O    I  |        |        |        |     2.08
2.667    0.80    0.00      0.144  O    I  |        |        |        |     2.12
2.750    0.84    0.00      0.150  O    I  |        |        |        |     2.15
2.833    0.88    0.00      0.156  O     I |        |        |        |     2.18
2.917    0.89    0.00      0.162  O     I |        |        |        |     2.22
3.000    0.89    0.00      0.168  O     I |        |        |        |     2.26
3.083    0.89    0.00      0.174  O     I |        |        |        |     2.29
3.167    0.93    0.00      0.180  O     I |        |        |        |     2.33
3.250    0.97    0.00      0.187  O     I |        |        |        |     2.37
3.333    0.97    0.00      0.194  O     I |        |        |        |     2.41
3.417    1.02    0.00      0.200  O      I|        |        |        |     2.45
3.500    1.10    0.00      0.208  O      I|        |        |        |     2.49
3.583    1.18    0.00      0.216  O       I        |        |        |     2.54
3.667    1.23    0.00      0.224  O       I        |        |        |     2.59
3.750    1.28    0.00      0.232  O       |I       |        |        |     2.64
3.833    1.32    0.00      0.241  O       |I       |        |        |     2.69
3.917    1.37    0.00      0.251  O       |I       |        |        |     2.75
4.000    1.41    0.00      0.260  O       |I       |        |        |     2.81
4.083    1.46    0.00      0.270  O        I       |        |        |     2.86
4.167    1.54    0.00      0.280  O        I       |        |        |     2.93
4.250    1.63    0.00      0.291  O        |  I     |        |        |     2.99
4.333    1.72    0.00      0.303  O        |   I    |        |        |     3.06
4.417    1.80    0.00      0.315  O        |   I    |        |        |     3.13
4.500    1.85    0.00      0.327  O        |    I   |        |        |     3.21
4.583    1.90    0.00      0.340  O        |    I   |        |        |     3.29
4.667    1.99    0.00      0.354  O        |    I   |        |        |     3.37
4.750    2.07    0.00      0.368  O        |     I  |        |        |     3.45
4.833    2.12    0.00      0.382  O        |     I  |        |        |     3.54
4.917    2.17    0.00      0.397  O        |      I |        |        |     3.63
5.000    2.25    0.00      0.412  O        |      I |        |        |     3.72
5.083    2.50    0.00      0.428  O        |        |I       |        |     3.82
5.167    2.91    0.00      0.447  O        |        |   I    |        |     3.93
5.250    3.26    0.01      0.468  O        |        |    I   |        |     4.04
5.333    3.54    0.01      0.492  O        |        |      I |        |     4.16
5.417    3.90    0.01      0.517  O        |        |        |  I     |     4.28
5.500    4.55    0.01      0.546  O        |        |        |      I |     4.43
5.583    3.40    0.01      0.574  O        |        |       I|        |     4.56
5.667    1.64    0.01      0.591  O        |  I     |        |        |     4.64
5.750    0.90    0.01      0.600  O     I  |        |        |        |     4.69
5.833    0.55    0.01      0.604  O  I     |        |        |        |     4.71
5.917    0.38    0.01      0.608  O I      |        |        |        |     4.73
6.000    0.25    0.01      0.610  OI       |        |        |        |     4.74
6.083    0.11    0.01      0.611  O        |        |        |        |     4.74
6.167    0.02    0.01      0.611  O        |        |        |        |     4.74
6.250    0.01    0.01      0.611  O        |        |        |        |     4.74
6.333    0.00    0.01      0.611  O        |        |        |        |     4.74

 Remaining water in basin =    0.61 (Ac.Ft)

 ****************************HYDROGRAPH DATA****************************
               Number of intervals =    76
               Time interval =    5.0 (Min.)
               Maximum/Peak flow rate =        0.006 (CFS)
               Total volume =       0.001 (Ac.Ft)
        Status of hydrographs being held in storage
                 Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
        Peak (CFS)      0.000     0.000     0.000     0.000     0.000
        Vol (Ac.Ft)      0.000     0.000     0.000     0.000     0.000
 ***********************************************************************

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                    FLOOD HYDROGRAPH ROUTING PROGRAM
              Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2004
                          Study date: 03/02/22

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Program License Serial Number 5006

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******************** HYDROGRAPH INFORMATION **********************

               From study/file name: pro12242.rte
*****************************HYDROGRAPH DATA*****************************
               Number of intervals =   291
               Time interval =    5.0 (Min.)
               Maximum/Peak flow rate =        1.510 (CFS)
               Total volume =       0.918 (Ac.Ft)
       Status of hydrographs being held in storage
                  Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
       Peak (CFS)      0.000     0.000     0.000     0.000     0.000
       Vol (Ac.Ft)     0.000     0.000     0.000     0.000     0.000
************************************************************************



++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        1.000 to Point/Station        2.000
**** RETARDING BASIN ROUTING ****
____________________________________________________________________________

User entry of depth-outflow-storage data
------------------------------------------------------------------------
Total number of inflow hydrograph intervals = 291
Hydrograph time unit =  5.000 (Min.)
Initial depth in storage basin =   0.00(Ft.)
------------------------------------------------------------------------
------------------------------------------------------------------------
Initial basin depth =   0.00 (Ft.)
Initial basin storage =      0.00 (Ac.Ft)
Initial basin outflow =   0.00 (CFS)
------------------------------------------------------------------------
------------------------------------------------------------------------
Depth vs. Storage and Depth vs. Discharge data:
 Basin Depth  Storage    Outflow   (S-O*dt/2)   (S+O*dt/2)
     (Ft.)    (Ac.Ft)    (CFS)     (Ac.Ft)    (Ac.Ft)
------------------------------------------------------------------------
   0.000      0.000      0.000      0.000        0.000
   1.000      0.063      0.001      0.063        0.063
   2.000      0.125      0.002      0.125        0.125
   3.000      0.293      0.003      0.293        0.293
   4.000      0.459      0.005      0.459        0.459
   5.000      0.664      0.006      0.664        0.664
   6.000      0.911      0.154      0.910        0.912
   7.000      1.202      0.268      1.201        1.203
   7.850      1.487      0.678      1.485        1.489
   8.200      1.796     22.862      1.717        1.875
------------------------------------------------------------------------
               Hydrograph Detention Basin Routing
------------------------------------------------------------------------

Graph values: 'I'= unit inflow; 'O'=outflow at time shown
------------------------------------------------------------------------
 Time   Inflow  Outflow    Storage                                    Depth
(Hours) (CFS)   (CFS)     (Ac.Ft) .0       0.4    0.76    1.13    1.51 (Ft.)
 0.083    0.04    0.00      0.000  O       |       |       |       |     0.00
 0.167    0.08    0.00      0.001  OI      |       |       |       |     0.01
 0.250    0.09    0.00      0.001  OI      |       |       |       |     0.02
 0.333    0.11    0.00      0.002  O I     |       |       |       |     0.03
 0.417    0.13    0.00      0.003  O I     |       |       |       |     0.04
 0.500    0.13    0.00      0.004  O I     |       |       |       |     0.06
 0.583    0.13    0.00      0.004  O I     |       |       |       |     0.07
 0.667    0.13    0.00      0.005  O I     |       |       |       |     0.08
 0.750    0.13    0.00      0.006  O I     |       |       |       |     0.10
 0.833    0.15    0.00      0.007  O  I    |       |       |       |     0.11
 0.917    0.17    0.00      0.008  O  I    |       |       |       |     0.13
 1.000    0.18    0.00      0.010  O  I    |       |       |       |     0.15
 1.083    0.16    0.00      0.011  O  I    |       |       |       |     0.17
 1.167    0.14    0.00      0.012  O I     |       |       |       |     0.19
 1.250    0.13    0.00      0.013  O I     |       |       |       |     0.20
 1.333    0.13    0.00      0.014  O I     |       |       |       |     0.22
 1.417    0.13    0.00      0.015  O I     |       |       |       |     0.23
 1.500    0.13    0.00      0.015  O I     |       |       |       |     0.24
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1.583	0.13	0.00	0.016	o I	|	|	|	0.26
1.667	0.13	0.00	0.017	o I	|	|	|	0.27
1.750	0.13	0.00	0.018	o I	|	|	|	0.29
1.833	0.15	0.00	0.019	o I	|	|	|	0.30
1.917	0.17	0.00	0.020	o I	|	|	|	0.32
2.000	0.18	0.00	0.021	o I	|	|	|	0.34
2.083	0.18	0.00	0.023	o I	|	|	|	0.36
2.167	0.18	0.00	0.024	o I	|	|	|	0.38
2.250	0.18	0.00	0.025	o I	|	|	|	0.40
2.333	0.18	0.00	0.026	o I	|	|	|	0.42
2.417	0.18	0.00	0.028	o I	|	|	|	0.44
2.500	0.18	0.00	0.029	o I	|	|	|	0.46
2.583	0.20	0.00	0.030	o I	|	|	|	0.48
2.667	0.22	0.00	0.032	o I	|	|	|	0.50
2.750	0.22	0.00	0.033	o I	|	|	|	0.52
2.833	0.22	0.00	0.035	o I	|	|	|	0.55
2.917	0.22	0.00	0.036	o I	|	|	|	0.57
3.000	0.22	0.00	0.038	o I	|	|	|	0.60
3.083	0.22	0.00	0.039	o I	|	|	|	0.62
3.167	0.22	0.00	0.041	o I	|	|	|	0.65
3.250	0.22	0.00	0.042	o I	|	|	|	0.67
3.333	0.22	0.00	0.044	o I	|	|	|	0.69
3.417	0.22	0.00	0.045	o I	|	|	|	0.72
3.500	0.22	0.00	0.047	o I	|	|	|	0.74
3.583	0.22	0.00	0.048	o I	|	|	|	0.77
3.667	0.22	0.00	0.050	o I	|	|	|	0.79
3.750	0.22	0.00	0.051	o I	|	|	|	0.81
3.833	0.24	0.00	0.053	o I	|	|	|	0.84
3.917	0.26	0.00	0.055	o I	|	|	|	0.87
4.000	0.27	0.00	0.056	o I	|	|	|	0.90
4.083	0.27	0.00	0.058	o I	|	|	|	0.92
4.167	0.27	0.00	0.060	o I	|	|	|	0.95
4.250	0.27	0.00	0.062	o I	|	|	|	0.98
4.333	0.29	0.00	0.064	o I	|	|	|	1.01
4.417	0.31	0.00	0.066	o I	|	|	|	1.05
4.500	0.31	0.00	0.068	o I	|	|	|	1.08
4.583	0.31	0.00	0.070	o I	|	|	|	1.11
4.667	0.31	0.00	0.072	o I	|	|	|	1.15
4.750	0.31	0.00	0.074	o I	|	|	|	1.18
4.833	0.33	0.00	0.077	o I	|	|	|	1.22
4.917	0.35	0.00	0.079	o I	|	|	|	1.26
5.000	0.35	0.00	0.081	o I	|	|	|	1.30
5.083	0.31	0.00	0.084	o I	|	|	|	1.33
5.167	0.28	0.00	0.086	o I	|	|	|	1.37
5.250	0.27	0.00	0.088	o I	|	|	|	1.40
5.333	0.29	0.00	0.089	o I	|	|	|	1.43
5.417	0.31	0.00	0.091	o I	|	|	|	1.46
5.500	0.31	0.00	0.094	o I	|	|	|	1.49
5.583	0.33	0.00	0.096	o I	|	|	|	1.53
5.667	0.35	0.00	0.098	o I	|	|	|	1.57
5.750	0.35	0.00	0.101	o I	|	|	|	1.61
5.833	0.36	0.00	0.103	o I	|	|	|	1.64
5.917	0.36	0.00	0.105	o I	|	|	|	1.68
6.000	0.36	0.00	0.108	o I	|	|	|	1.72
6.083	0.38	0.00	0.110	o I	|	|	|	1.76
6.167	0.39	0.00	0.113	o I	|	|	|	1.81
6.250	0.40	0.00	0.116	o I	|	|	|	1.85
6.333	0.40	0.00	0.118	o I	|	|	|	1.89
6.417	0.40	0.00	0.121	o I	|	|	|	1.94
6.500	0.40	0.00	0.124	o I	|	|	|	1.98
6.583	0.42	0.00	0.127	o I	|	|	|	2.01
6.667	0.44	0.00	0.130	o I	|	|	|	2.03
6.750	0.44	0.00	0.133	o I	|	|	|	2.05
6.833	0.44	0.00	0.136	o I	|	|	|	2.06
6.917	0.44	0.00	0.139	o I	|	|	|	2.08
7.000	0.44	0.00	0.142	o I	|	|	|	2.10
7.083	0.44	0.00	0.145	o I	|	|	|	2.12
7.167	0.44	0.00	0.148	o I	|	|	|	2.14
7.250	0.44	0.00	0.151	o I	|	|	|	2.15
7.333	0.46	0.00	0.154	o I	|	|	|	2.17
7.417	0.48	0.00	0.157	o I	|	|	|	2.19
7.500	0.49	0.00	0.161	o I	|	|	|	2.21
7.583	0.51	0.00	0.164	o I	|	|	|	2.23
7.667	0.53	0.00	0.168	o I	|	|	|	2.25
7.750	0.53	0.00	0.171	o I	|	|	|	2.28
7.833	0.55	0.00	0.175	o I	|	|	|	2.30
7.917	0.57	0.00	0.179	o I	|	|	|	2.32
8.000	0.58	0.00	0.183	o I	|	|	|	2.34
8.083	0.62	0.00	0.187	o I	|	|	|	2.37
8.167	0.66	0.00	0.191	o I	|	|	|	2.39
8.250	0.66	0.00	0.196	o I	|	|	|	2.42
8.333	0.67	0.00	0.200	o I	|	|	|	2.45
8.417	0.67	0.00	0.205	o I	|	|	|	2.48
8.500	0.67	0.00	0.209	o I	|	|	|	2.50
8.583	0.69	0.00	0.214	o I	|	|	|	2.53
8.667	0.71	0.00	0.219	o I	|	|	|	2.56
8.750	0.71	0.00	0.224	o I	|	|	|	2.59

8.833	0.73	0.00	0.229	o	|	I|	|	2.62
8.917	0.75	0.00	0.234	o	|	I|	|	2.65
9.000	0.75	0.00	0.239	o	|	I|	|	2.68
9.083	0.80	0.00	0.244	o	|	I	|	2.71
9.167	0.83	0.00	0.250	o	|	|I	|	2.74
9.250	0.84	0.00	0.256	o	|	|I	|	2.78
9.333	0.86	0.00	0.261	o	|	I	|	2.81
9.417	0.88	0.00	0.267	o	|	I	|	2.85
9.500	0.89	0.00	0.274	o	|	I	|	2.88
9.583	0.91	0.00	0.280	o	|	I	|	2.92
9.667	0.93	0.00	0.286	o	|	I	|	2.96
9.750	0.93	0.00	0.292	o	|	I	|	3.00
9.833	0.95	0.00	0.299	o	|	I	|	3.04
9.917	0.97	0.00	0.305	o	|	I	|	3.08
10.000	0.98	0.00	0.312	o	|	I	|	3.12
10.083	0.83	0.00	0.318	o	|	|I	|	3.15
10.167	0.70	0.00	0.324	o	I	|	|	3.18
10.250	0.68	0.00	0.328	o	I	|	|	3.21
10.333	0.67	0.00	0.333	o	I	|	|	3.24
10.417	0.67	0.00	0.338	o	I	|	|	3.27
10.500	0.67	0.00	0.342	o	I	|	|	3.30
10.583	0.77	0.00	0.347	o	|	I	|	3.33
10.667	0.86	0.00	0.353	o	|	| I	|	3.36
10.750	0.88	0.00	0.359	o	|	| I	|	3.40
10.833	0.89	0.00	0.365	o	|	| I	|	3.43
10.917	0.89	0.00	0.371	o	|	| I	|	3.47
11.000	0.89	0.00	0.377	o	|	| I	|	3.50
11.083	0.87	0.00	0.383	o	|	| I	|	3.54
11.167	0.85	0.00	0.389	o	|	|I	|	3.58
11.250	0.85	0.00	0.395	o	|	|I	|	3.61
11.333	0.84	0.00	0.400	o	|	|I	|	3.65
11.417	0.84	0.00	0.406	o	|	|I	|	3.68
11.500	0.84	0.00	0.412	o	|	|I	|	3.72
11.583	0.80	0.00	0.418	o	|	|I	|	3.75
11.667	0.77	0.00	0.423	o	|	I	|	3.78
11.750	0.76	0.00	0.428	o	|	I	|	3.81
11.833	0.78	0.00	0.433	o	|	I	|	3.85
11.917	0.79	0.00	0.439	o	|	I	|	3.88
12.000	0.80	0.00	0.444	o	|	I	|	3.91
12.083	0.94	0.00	0.450	o	|	| I	|	3.95
12.167	1.07	0.00	0.457	o	|	| I	|	3.99
12.250	1.10	0.01	0.465	o	|	| I|	|	4.03
12.333	1.13	0.01	0.472	o	|	| I|	|	4.06
12.417	1.15	0.01	0.480	o	|	| I	|	4.10
12.500	1.15	0.01	0.488	o	|	| I	|	4.14
12.583	1.20	0.01	0.496	o	|	|I	|	4.18
12.667	1.23	0.01	0.504	o	|	| I	|	4.22
12.750	1.24	0.01	0.513	o	|	| I	|	4.26
12.833	1.26	0.01	0.521	o	|	| I	|	4.30
12.917	1.28	0.01	0.530	o	|	| I	|	4.35
13.000	1.29	0.01	0.539	o	|	| I	|	4.39
13.083	1.39	0.01	0.548	o	|	| I	|	4.43
13.167	1.48	0.01	0.558	o	|	| I|	|	4.48
13.250	1.50	0.01	0.568	o	|	| I|	|	4.53
13.333	1.51	0.01	0.579	o	|	| I	|	4.58
13.417	1.51	0.01	0.589	o	|	| I	|	4.63
13.500	1.51	0.01	0.599	o	|	| I	|	4.68
13.583	1.28	0.01	0.609	o	|	| I	|	4.73
13.667	1.08	0.01	0.617	o	|	| I	|	4.77
13.750	1.04	0.01	0.624	o	|	| I	|	4.81
13.833	1.02	0.01	0.631	o	|	| I	|	4.84
13.917	1.02	0.01	0.638	o	|	| I	|	4.87
14.000	1.02	0.01	0.645	o	|	| I	|	4.91
14.083	1.10	0.01	0.653	o	|	| I|	|	4.94
14.167	1.18	0.01	0.660	o	|	| I	|	4.98
14.250	1.19	0.01	0.668	o	|	| |I	|	5.02
14.333	1.18	0.01	0.677	o	|	| I	|	5.05
14.417	1.16	0.02	0.685	o	|	| I	|	5.08
14.500	1.16	0.02	0.692	o	|	| I	|	5.11
14.583	1.16	0.03	0.700	o	|	| I	|	5.15
14.667	1.16	0.03	0.708	o	|	| I	|	5.18
14.750	1.16	0.04	0.716	o	|	| I	|	5.21
14.833	1.13	0.04	0.723	o	|	| I	|	5.24
14.917	1.12	0.05	0.731	o	|	| I|	|	5.27
15.000	1.11	0.05	0.738	|o	|	| I|	|	5.30
15.083	1.09	0.05	0.745	|o	|	| I|	|	5.33
15.167	1.07	0.06	0.752	|o	|	| I |	|	5.36
15.250	1.07	0.06	0.759	|o	|	| I |	|	5.39
15.333	1.05	0.07	0.766	|o	|	| I |	|	5.41
15.417	1.03	0.07	0.773	|o	|	| I |	|	5.44
15.500	1.02	0.08	0.779	|o	|	| I |	|	5.47
15.583	0.94	0.08	0.786	|o	|	| I |	|	5.49
15.667	0.86	0.08	0.791	|o	|	| I |	|	5.51
15.750	0.85	0.09	0.796	|o	|	| I |	|	5.54
15.833	0.84	0.09	0.802	|o	|	|I |	|	5.56
15.917	0.84	0.09	0.807	|o	|	|I |	|	5.58
16.000	0.84	0.09	0.812	| o	|	|I |	|	5.60

16.083	0.54	0.10	0.816	O	I			5.62
16.167	0.25	0.10	0.818	O I				5.62
16.250	0.20	0.10	0.819	O I				5.63
16.333	0.18	0.10	0.820	OI				5.63
16.417	0.18	0.10	0.820	OI				5.63
16.500	0.18	0.10	0.821	OI				5.63
16.583	0.16	0.10	0.821	OI				5.64
16.667	0.14	0.10	0.822	O				5.64
16.750	0.13	0.10	0.822	O				5.64
16.833	0.13	0.10	0.822	O				5.64
16.917	0.13	0.10	0.822	O				5.64
17.000	0.13	0.10	0.823	O				5.64
17.083	0.17	0.10	0.823	OI				5.64
17.167	0.21	0.10	0.824	O I				5.65
17.250	0.22	0.10	0.824	O I				5.65
17.333	0.22	0.10	0.825	O I				5.65
17.417	0.22	0.10	0.826	O I				5.66
17.500	0.22	0.10	0.827	O I				5.66
17.583	0.22	0.10	0.828	O I				5.66
17.667	0.22	0.10	0.828	O I				5.67
17.750	0.22	0.10	0.829	O I				5.67
17.833	0.20	0.11	0.830	O I				5.67
17.917	0.18	0.11	0.831	OI				5.67
18.000	0.18	0.11	0.831	OI				5.68
18.083	0.18	0.11	0.832	OI				5.68
18.167	0.18	0.11	0.832	OI				5.68
18.250	0.18	0.11	0.833	OI				5.68
18.333	0.18	0.11	0.833	OI				5.68
18.417	0.18	0.11	0.833	OI				5.69
18.500	0.18	0.11	0.834	OI				5.69
18.583	0.16	0.11	0.834	OI				5.69
18.667	0.14	0.11	0.835	O				5.69
18.750	0.13	0.11	0.835	O				5.69
18.833	0.11	0.11	0.835	O				5.69
18.917	0.09	0.11	0.835	IO				5.69
19.000	0.09	0.11	0.835	IO				5.69
19.083	0.11	0.11	0.835	O				5.69
19.167	0.13	0.11	0.835	O				5.69
19.250	0.13	0.11	0.835	O				5.69
19.333	0.15	0.11	0.835	OI				5.69
19.417	0.17	0.11	0.836	OI				5.69
19.500	0.18	0.11	0.836	OI				5.70
19.583	0.16	0.11	0.836	OI				5.70
19.667	0.14	0.11	0.837	O				5.70
19.750	0.13	0.11	0.837	O				5.70
19.833	0.11	0.11	0.837	O				5.70
19.917	0.09	0.11	0.837	IO				5.70
20.000	0.09	0.11	0.837	IO				5.70
20.083	0.11	0.11	0.837	O				5.70
20.167	0.13	0.11	0.837	O				5.70
20.250	0.13	0.11	0.837	O				5.70
20.333	0.13	0.11	0.837	O				5.70
20.417	0.13	0.11	0.837	O				5.70
20.500	0.13	0.11	0.837	O				5.70
20.583	0.13	0.11	0.838	O				5.70
20.667	0.13	0.11	0.838	O				5.70
20.750	0.13	0.11	0.838	O				5.70
20.833	0.11	0.11	0.838	O				5.70
20.917	0.09	0.11	0.838	IO				5.70
21.000	0.09	0.11	0.838	IO				5.70
21.083	0.11	0.11	0.838	O				5.70
21.167	0.13	0.11	0.838	O				5.70
21.250	0.13	0.11	0.838	O				5.70
21.333	0.11	0.11	0.838	O				5.70
21.417	0.09	0.11	0.838	IO				5.70
21.500	0.09	0.11	0.838	IO				5.70
21.583	0.11	0.11	0.838	O				5.70
21.667	0.13	0.11	0.838	O				5.70
21.750	0.13	0.11	0.838	O				5.70
21.833	0.11	0.11	0.838	O				5.70
21.917	0.09	0.11	0.838	IO				5.70
22.000	0.09	0.11	0.838	IO				5.70
22.083	0.11	0.11	0.838	O				5.70
22.167	0.13	0.11	0.838	O				5.70
22.250	0.13	0.11	0.838	O				5.70
22.333	0.11	0.11	0.838	O				5.70
22.417	0.09	0.11	0.838	IO				5.70
22.500	0.09	0.11	0.838	IO				5.70
22.583	0.09	0.11	0.838	IO				5.70
22.667	0.09	0.11	0.838	IO				5.70
22.750	0.09	0.11	0.837	IO				5.70
22.833	0.09	0.11	0.837	IO				5.70
22.917	0.09	0.11	0.837	IO				5.70
23.000	0.09	0.11	0.837	IO				5.70
23.083	0.09	0.11	0.837	IO				5.70
23.167	0.09	0.11	0.837	IO				5.70
23.250	0.09	0.11	0.837	IO				5.70

```
23.333    0.09    0.11      0.836  |IO     |       |       |       |     5.70
23.417    0.09    0.11      0.836  |IO     |       |       |       |     5.70
23.500    0.09    0.11      0.836  |IO     |       |       |       |     5.70
23.583    0.09    0.11      0.836  |IO     |       |       |       |     5.70
23.667    0.09    0.11      0.836  |IO     |       |       |       |     5.70
23.750    0.09    0.11      0.836  |IO     |       |       |       |     5.70
23.833    0.09    0.11      0.836  |IO     |       |       |       |     5.69
23.917    0.09    0.11      0.836  |IO     |       |       |       |     5.69
24.000    0.09    0.11      0.835  |IO     |       |       |       |     5.69
24.083    0.05    0.11      0.835  |IO     |       |       |       |     5.69
24.167    0.01    0.11      0.835  I O    |       |       |       |     5.69
24.250    0.00    0.11      0.834  I O    |       |       |       |     5.69
24.333    0.00    0.11      0.833  I O    |       |       |       |     5.68
24.417    0.00    0.11      0.832  I O    |       |       |       |     5.68
24.500    0.00    0.11      0.832  I O    |       |       |       |     5.68
24.583    0.00    0.11      0.831  I O    |       |       |       |     5.68
24.667    0.00    0.11      0.830  I O    |       |       |       |     5.67
24.750    0.00    0.11      0.829  I O    |       |       |       |     5.67
24.833    0.00    0.10      0.829  I O    |       |       |       |     5.67
24.917    0.00    0.10      0.828  I O    |       |       |       |     5.66
25.000    0.00    0.10      0.827  I O    |       |       |       |     5.66
25.083    0.00    0.10      0.827  I O    |       |       |       |     5.66
25.167    0.00    0.10      0.826  I O    |       |       |       |     5.66
25.250    0.00    0.10      0.825  I O    |       |       |       |     5.65
25.333    0.00    0.10      0.824  I O    |       |       |       |     5.65
25.417    0.00    0.10      0.824  I O    |       |       |       |     5.65
25.500    0.00    0.10      0.823  I O    |       |       |       |     5.64
25.583    0.00    0.10      0.822  I O    |       |       |       |     5.64
25.667    0.00    0.10      0.822  I O    |       |       |       |     5.64
25.750    0.00    0.10      0.821  I O    |       |       |       |     5.64
25.833    0.00    0.10      0.820  I O    |       |       |       |     5.63

       Remaining water in basin =    0.82 (Ac.Ft)

       ****************************HYDROGRAPH DATA****************************
                    Number of intervals =   310
                    Time interval =    5.0 (Min.)
                    Maximum/Peak flow rate =       0.110 (CFS)
                    Total volume =       0.098 (Ac.Ft)
              Status of hydrographs being held in storage
                         Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
              Peak (CFS)      0.000     0.000     0.000     0.000     0.000
              Vol (Ac.Ft)     0.000     0.000     0.000     0.000     0.000
       ************************************************************************

       ------------------------------------------------------------------------
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******************** HYDROGRAPH INFORMATION **********************

               From study/file name: pro1515.rte
*****************************HYDROGRAPH DATA*****************************
               Number of intervals =    15
               Time interval =    5.0 (Min.)
               Maximum/Peak flow rate =       12.688 (CFS)
               Total volume =       0.384 (Ac.Ft)
       Status of hydrographs being held in storage
                    Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
       Peak (CFS)      0.000     0.000     0.000     0.000     0.000
       Vol (Ac.Ft)     0.000     0.000     0.000     0.000     0.000
*************************************************************************



+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        1.000 to Point/Station        2.000
**** RETARDING BASIN ROUTING ****
_________________________________________________________________________

User entry of depth-outflow-storage data
-------------------------------------------------------------------------
Total number of inflow hydrograph intervals = 15
Hydrograph time unit =  5.000 (Min.)
Initial depth in storage basin =   0.00(Ft.)
-------------------------------------------------------------------------
-------------------------------------------------------------------------
Initial basin depth =   0.00 (Ft.)
Initial basin storage =      0.00 (Ac.Ft)
Initial basin outflow =   0.00 (CFS)
-------------------------------------------------------------------------
-------------------------------------------------------------------------
Depth vs. Storage and Depth vs. Discharge data:
 Basin Depth  Storage    Outflow   (S-O*dt/2)   (S+O*dt/2)
     (Ft.)    (Ac.Ft)    (CFS)     (Ac.Ft)    (Ac.Ft)
-------------------------------------------------------------------------
   0.000      0.000      0.000      0.000        0.000
   1.000      0.063      0.001      0.063        0.063
   2.000      0.125      0.002      0.125        0.125
   3.000      0.293      0.003      0.293        0.293
   4.000      0.459      0.005      0.459        0.459
   5.000      0.664      0.006      0.664        0.664
   6.000      0.911      0.154      0.910        0.912
   7.000      1.202      0.268      1.201        1.203
   7.850      1.487      0.678      1.485        1.489
   8.200      1.796     22.862      1.717        1.875
-------------------------------------------------------------------------
               Hydrograph Detention Basin Routing
-------------------------------------------------------------------------

Graph values: 'I'= unit inflow; 'O'=outflow at time shown
-------------------------------------------------------------------------
 Time   Inflow  Outflow    Storage                                    Depth
(Hours) (CFS)   (CFS)     (Ac.Ft) .0       3.2    6.34    9.52   12.69 (Ft.)
 0.083    0.96    0.00      0.003  O I     |       |       |       |     0.05
 0.167    1.85    0.00      0.013  O   I   |       |       |       |     0.21
 0.250    2.20    0.00      0.027  O    I  |       |       |       |     0.43
 0.333    2.42    0.00      0.043  O     I |       |       |       |     0.68
 0.417    2.63    0.00      0.060  O     I |       |       |       |     0.95
 0.500    2.97    0.00      0.079  O      I|       |       |       |     1.26
 0.583    3.35    0.00      0.101  O       I       |       |       |     1.61
 0.667    3.85    0.00      0.126  O       |I      |       |       |     2.01
 0.750    5.35    0.00      0.158  O       |    I  |       |       |     2.19
 0.833   12.69    0.00      0.220  O       |       |       |       I     2.56
 0.917   10.74    0.00      0.300  O       |       |       |   I   |     3.04
 1.000    4.42    0.00      0.352  O       |  I    |       |       |     3.36
 1.083    2.00    0.00      0.375  O    I  |       |       |       |     3.49
 1.167    0.31    0.00      0.382  O       |       |       |       |     3.54
 1.250    0.08    0.00      0.384  O       |       |       |       |     3.55
 1.333    0.00    0.00      0.384  O       |       |       |       |     3.55
```

```
Remaining water in basin =    0.38 (Ac.Ft)


**************************HYDROGRAPH DATA**************************
               Number of intervals =    16
               Time interval =    5.0 (Min.)
               Maximum/Peak flow rate =        0.004 (CFS)
               Total volume =       0.000 (Ac.Ft)
       Status of hydrographs being held in storage
                  Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
       Peak (CFS)      0.000     0.000     0.000     0.000     0.000
       Vol (Ac.Ft)      0.000     0.000     0.000     0.000     0.000
*******************************************************************

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******************** HYDROGRAPH INFORMATION **********************

               From study/file name: pro1535.rte
*****************************HYDROGRAPH DATA*****************************
               Number of intervals =    39
               Time interval =    5.0 (Min.)
               Maximum/Peak flow rate =        6.658 (CFS)
               Total volume =       0.553 (Ac.Ft)
       Status of hydrographs being held in storage
                    Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
       Peak (CFS)      0.000     0.000     0.000     0.000     0.000
       Vol (Ac.Ft)     0.000     0.000     0.000     0.000     0.000
************************************************************************



++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        1.000 to Point/Station        2.000
**** RETARDING BASIN ROUTING ****
____________________________________________________________________________

User entry of depth-outflow-storage data
------------------------------------------------------------------------
Total number of inflow hydrograph intervals = 39
Hydrograph time unit =  5.000 (Min.)
Initial depth in storage basin =   0.00(Ft.)
------------------------------------------------------------------------
------------------------------------------------------------------------
Initial basin depth =   0.00 (Ft.)
Initial basin storage =      0.00 (Ac.Ft)
Initial basin outflow =   0.00 (CFS)
------------------------------------------------------------------------
------------------------------------------------------------------------
Depth vs. Storage and Depth vs. Discharge data:
 Basin Depth  Storage    Outflow   (S-O*dt/2)   (S+O*dt/2)
     (Ft.)    (Ac.Ft)    (CFS)     (Ac.Ft)    (Ac.Ft)
------------------------------------------------------------------------
   0.000      0.000      0.000      0.000        0.000
   1.000      0.063      0.001      0.063        0.063
   2.000      0.125      0.002      0.125        0.125
   3.000      0.293      0.003      0.293        0.293
   4.000      0.459      0.005      0.459        0.459
   5.000      0.664      0.006      0.664        0.664
   6.000      0.911      0.154      0.910        0.912
   7.000      1.202      0.268      1.201        1.203
   7.850      1.487      0.678      1.485        1.489
   8.200      1.796     22.862      1.717        1.875
------------------------------------------------------------------------
               Hydrograph Detention Basin Routing
------------------------------------------------------------------------

Graph values: 'I'= unit inflow; 'O'=outflow at time shown
------------------------------------------------------------------------
  Time   Inflow  Outflow    Storage                                    Depth
 (Hours)  (CFS)   (CFS)     (Ac.Ft) .0       1.7    3.33    4.99    6.66 (Ft.)
  0.083    0.47    0.00      0.002  O I      |       |       |       |     0.03
  0.167    0.90    0.00      0.006  O   I    |       |       |       |     0.10
  0.250    0.91    0.00      0.013  O   I    |       |       |       |     0.20
  0.333    1.02    0.00      0.019  O   I    |       |       |       |     0.31
  0.417    1.14    0.00      0.027  O    I   |       |       |       |     0.42
  0.500    1.27    0.00      0.035  O     I  |       |       |       |     0.56
  0.583    1.27    0.00      0.044  O     I  |       |       |       |     0.70
  0.667    1.30    0.00      0.053  O     I  |       |       |       |     0.84
  0.750    1.39    0.00      0.062  O     I  |       |       |       |     0.98
  0.833    1.29    0.00      0.071  O     I  |       |       |       |     1.13
  0.917    1.24    0.00      0.080  O    I   |       |       |       |     1.27
  1.000    1.32    0.00      0.089  O     I  |       |       |       |     1.41
  1.083    1.53    0.00      0.099  O      I|       |       |       |     1.57
  1.167    1.68    0.00      0.110  O       I       |       |       |     1.75
  1.250    1.71    0.00      0.121  O       I       |       |       |     1.94
  1.333    1.65    0.00      0.133  O      I|       |       |       |     2.05
  1.417    1.80    0.00      0.145  O       I       |       |       |     2.12
  1.500    2.02    0.00      0.158  O       |I      |       |       |     2.20
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1.583    1.98    0.00      0.172  O       |I      |       |       |     2.28
1.667    2.01    0.00      0.185  O       |I      |       |       |     2.36
1.750    2.31    0.00      0.200  O       |  I    |       |       |     2.45
1.833    2.45    0.00      0.217  O       |  I    |       |       |     2.55
1.917    2.36    0.00      0.233  O       |  I    |       |       |     2.64
2.000    2.33    0.00      0.249  O       |  I    |       |       |     2.74
2.083    2.38    0.00      0.265  O       |  I    |       |       |     2.84
2.167    2.82    0.00      0.283  O       |    I  |       |       |     2.94
2.250    3.48    0.00      0.305  O       |       I       |       |     3.07
2.333    3.27    0.00      0.328  O       |      I|       |       |     3.21
2.417    4.21    0.00      0.354  O       |       |   I   |       |     3.37
2.500    5.67    0.00      0.388  O       |       |       | I     |     3.57
2.583    6.66    0.00      0.430  O       |       |       |     I |     3.83
2.667    5.98    0.01      0.474  O       |       |       |   I   |     4.07
2.750    3.49    0.01      0.506  O       |       I       |       |     4.23
2.833    1.94    0.01      0.525  O       |I      |       |       |     4.32
2.917    1.53    0.01      0.537  O      I|       |       |       |     4.38
3.000    0.98    0.01      0.546  O   I   |       |       |       |     4.42
3.083    0.36    0.01      0.550  OI      |       |       |       |     4.45
3.167    0.09    0.01      0.552  O       |       |       |       |     4.45
3.250    0.02    0.01      0.552  O       |       |       |       |     4.45
3.333    0.00    0.01      0.552  O       |       |       |       |     4.45

Remaining water in basin =    0.55 (Ac.Ft)

****************************HYDROGRAPH DATA****************************
              Number of intervals =    40
              Time interval =    5.0 (Min.)
              Maximum/Peak flow rate =        0.005 (CFS)
              Total volume =       0.001 (Ac.Ft)
       Status of hydrographs being held in storage
                    Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
       Peak (CFS)      0.000     0.000     0.000     0.000     0.000
       Vol (Ac.Ft)     0.000     0.000     0.000     0.000     0.000
***********************************************************************

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******************** HYDROGRAPH INFORMATION **********************

               From study/file name: pro1565.rte
*****************************HYDROGRAPH DATA*****************************
               Number of intervals =    75
               Time interval =    5.0 (Min.)
               Maximum/Peak flow rate =        6.169 (CFS)
               Total volume =       0.775 (Ac.Ft)
       Status of hydrographs being held in storage
                    Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
       Peak (CFS)      0.000     0.000     0.000     0.000     0.000
       Vol (Ac.Ft)     0.000     0.000     0.000     0.000     0.000
************************************************************************



++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        1.000 to Point/Station        2.000
**** RETARDING BASIN ROUTING ****
____________________________________________________________________________

User entry of depth-outflow-storage data
------------------------------------------------------------------------
Total number of inflow hydrograph intervals = 75
Hydrograph time unit =  5.000 (Min.)
Initial depth in storage basin =   0.00(Ft.)
------------------------------------------------------------------------
------------------------------------------------------------------------
Initial basin depth =   0.00 (Ft.)
Initial basin storage =      0.00 (Ac.Ft)
Initial basin outflow =   0.00 (CFS)
------------------------------------------------------------------------
------------------------------------------------------------------------
Depth vs. Storage and Depth vs. Discharge data:
 Basin Depth  Storage    Outflow   (S-O*dt/2)   (S+O*dt/2)
     (Ft.)    (Ac.Ft)    (CFS)     (Ac.Ft)    (Ac.Ft)
------------------------------------------------------------------------
   0.000      0.000      0.000      0.000        0.000
   1.000      0.063      0.001      0.063        0.063
   2.000      0.125      0.002      0.125        0.125
   3.000      0.293      0.003      0.293        0.293
   4.000      0.459      0.005      0.459        0.459
   5.000      0.664      0.006      0.664        0.664
   6.000      0.911      0.154      0.910        0.912
   7.000      1.202      0.268      1.201        1.203
   7.850      1.487      0.678      1.485        1.489
   8.200      1.796     22.862      1.717        1.875
------------------------------------------------------------------------
               Hydrograph Detention Basin Routing
------------------------------------------------------------------------

Graph values: 'I'= unit inflow; 'O'=outflow at time shown
------------------------------------------------------------------------
 Time   Inflow  Outflow    Storage                                    Depth
(Hours) (CFS)   (CFS)     (Ac.Ft) .0       1.5    3.08    4.63    6.17 (Ft.)
 0.083    0.26    0.00      0.001  OI      |       |       |       |     0.01
 0.167    0.54    0.00      0.004  O I     |       |       |       |     0.06
 0.250    0.64    0.00      0.008  O  I    |       |       |       |     0.12
 0.333    0.66    0.00      0.012  O  I    |       |       |       |     0.19
 0.417    0.67    0.00      0.017  O  I    |       |       |       |     0.27
 0.500    0.72    0.00      0.022  O  I    |       |       |       |     0.34
 0.583    0.77    0.00      0.027  O  I    |       |       |       |     0.42
 0.667    0.78    0.00      0.032  O   I   |       |       |       |     0.51
 0.750    0.78    0.00      0.037  O   I   |       |       |       |     0.59
 0.833    0.78    0.00      0.043  O   I   |       |       |       |     0.68
 0.917    0.78    0.00      0.048  O   I   |       |       |       |     0.76
 1.000    0.83    0.00      0.054  O   I   |       |       |       |     0.85
 1.083    0.88    0.00      0.060  O   I   |       |       |       |     0.94
 1.167    0.89    0.00      0.066  O   I   |       |       |       |     1.04
 1.250    0.89    0.00      0.072  O   I   |       |       |       |     1.14
 1.333    0.89    0.00      0.078  O   I   |       |       |       |     1.24
 1.417    0.89    0.00      0.084  O   I   |       |       |       |     1.34
 1.500    0.89    0.00      0.090  O   I   |       |       |       |     1.44
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1.583    0.89    0.00      0.096  O   I   |       |       |       |     1.54
1.667    0.89    0.00      0.102  O   I   |       |       |       |     1.63
1.750    0.89    0.00      0.108  O   I   |       |       |       |     1.73
1.833    0.89    0.00      0.115  O   I   |       |       |       |     1.83
1.917    0.89    0.00      0.121  O   I   |       |       |       |     1.93
2.000    0.94    0.00      0.127  O   I   |       |       |       |     2.01
2.083    0.94    0.00      0.133  O   I   |       |       |       |     2.05
2.167    0.95    0.00      0.140  O   I   |       |       |       |     2.09
2.250    0.99    0.00      0.147  O    I  |       |       |       |     2.13
2.333    1.00    0.00      0.153  O    I  |       |       |       |     2.17
2.417    1.00    0.00      0.160  O    I  |       |       |       |     2.21
2.500    1.00    0.00      0.167  O    I  |       |       |       |     2.25
2.583    1.00    0.00      0.174  O    I  |       |       |       |     2.29
2.667    1.00    0.00      0.181  O    I  |       |       |       |     2.33
2.750    1.05    0.00      0.188  O    I  |       |       |       |     2.38
2.833    1.10    0.00      0.196  O    I  |       |       |       |     2.42
2.917    1.11    0.00      0.203  O    I  |       |       |       |     2.46
3.000    1.11    0.00      0.211  O    I  |       |       |       |     2.51
3.083    1.11    0.00      0.218  O    I  |       |       |       |     2.56
3.167    1.17    0.00      0.226  O     I |       |       |       |     2.60
3.250    1.21    0.00      0.234  O     I |       |       |       |     2.65
3.333    1.22    0.00      0.243  O     I |       |       |       |     2.70
3.417    1.28    0.00      0.251  O     I |       |       |       |     2.75
3.500    1.38    0.00      0.260  O      I|       |       |       |     2.81
3.583    1.48    0.00      0.270  O      I|       |       |       |     2.86
3.667    1.54    0.00      0.281  O       I       |       |       |     2.93
3.750    1.61    0.00      0.292  O       I       |       |       |     2.99
3.833    1.66    0.00      0.303  O       I       |       |       |     3.06
3.917    1.72    0.00      0.314  O       I       |       |       |     3.13
4.000    1.77    0.00      0.326  O       |I      |       |       |     3.20
4.083    1.83    0.00      0.339  O       |I      |       |       |     3.28
4.167    1.93    0.00      0.352  O        I      |       |       |     3.35
4.250    2.04    0.00      0.365  O        I      |       |       |     3.44
4.333    2.15    0.00      0.380  O        |  I   |       |       |     3.52
4.417    2.26    0.00      0.395  O        |  I   |       |       |     3.61
4.500    2.32    0.00      0.411  O        |   I  |       |       |     3.71
4.583    2.39    0.00      0.427  O        |   I  |       |       |     3.81
4.667    2.49    0.00      0.444  O        |   I  |       |       |     3.91
4.750    2.60    0.01      0.461  O        |    I |       |       |     4.01
4.833    2.66    0.01      0.479  O        |    I |       |       |     4.10
4.917    2.72    0.01      0.498  O        |     I|       |       |     4.19
5.000    2.82    0.01      0.517  O        |     I|       |       |     4.28
5.083    3.14    0.01      0.537  O        |       I       |       |     4.38
5.167    3.64    0.01      0.560  O        |        | I    |       |     4.49
5.250    4.08    0.01      0.587  O        |        |    I |       |     4.62
5.333    4.44    0.01      0.616  O        |        |      I|       |     4.77
5.417    5.02    0.01      0.649  O        |        |       | I     |     4.93
5.500    6.17    0.02      0.687  O        |        |       |     I |     5.09
5.583    4.60    0.04      0.724  O        |        |      I|       |     5.24
5.667    2.12    0.06      0.747  O        |  I     |       |       |     5.34
5.750    1.15    0.06      0.758  O    I   |        |       |       |     5.38
5.833    0.69    0.07      0.764  O  I     |        |       |       |     5.40
5.917    0.48    0.07      0.767  O I      |        |       |       |     5.42
6.000    0.31    0.07      0.770  OI       |        |       |       |     5.43
6.083    0.14    0.07      0.771  O        |        |       |       |     5.43
6.167    0.03    0.07      0.771  O        |        |       |       |     5.43
6.250    0.01    0.07      0.770  O        |        |       |       |     5.43
6.333    0.00    0.07      0.770  O        |        |       |       |     5.43

Remaining water in basin =    0.77 (Ac.Ft)

****************************HYDROGRAPH DATA****************************
              Number of intervals =    76
              Time interval =    5.0 (Min.)
              Maximum/Peak flow rate =        0.070 (CFS)
              Total volume =       0.006 (Ac.Ft)
       Status of hydrographs being held in storage
                Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
       Peak (CFS)      0.000     0.000     0.000     0.000     0.000
       Vol (Ac.Ft)      0.000     0.000     0.000     0.000     0.000
***********************************************************************

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                    FLOOD HYDROGRAPH ROUTING PROGRAM
                Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2004
                            Study date: 03/02/22

------------------------------------------------------------------------



Program License Serial Number 5006

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******************** HYDROGRAPH INFORMATION **********************

               From study/file name: pro15245.rte
*****************************HYDROGRAPH DATA*****************************
               Number of intervals =   291
               Time interval =    5.0 (Min.)
               Maximum/Peak flow rate =        2.041 (CFS)
               Total volume =       1.240 (Ac.Ft)
       Status of hydrographs being held in storage
                    Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
       Peak (CFS)      0.000     0.000     0.000     0.000     0.000
       Vol (Ac.Ft)     0.000     0.000     0.000     0.000     0.000
************************************************************************

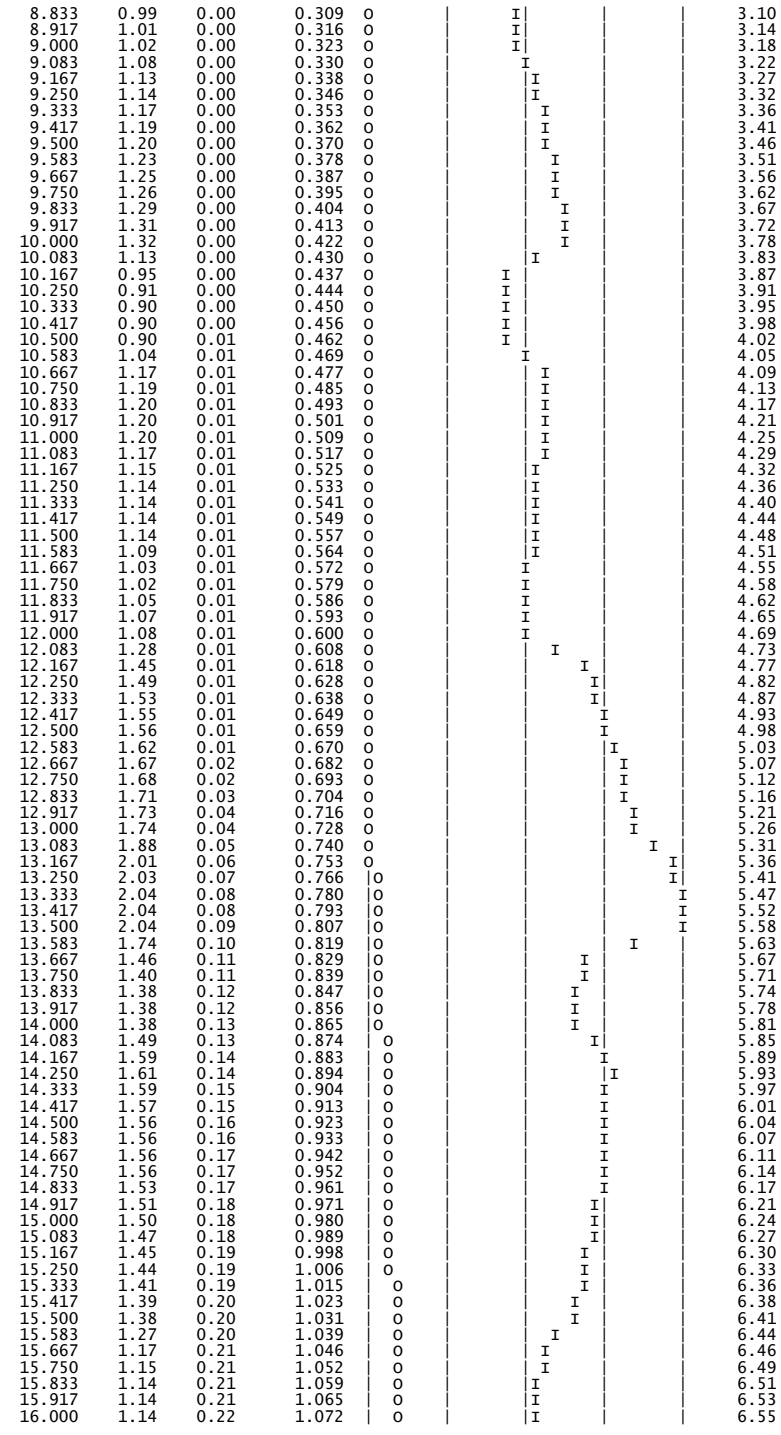


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        1.000 to Point/Station        2.000
**** RETARDING BASIN ROUTING ****
____________________________________________________________________________

User entry of depth-outflow-storage data
------------------------------------------------------------------------
Total number of inflow hydrograph intervals = 291
Hydrograph time unit =  5.000 (Min.)
Initial depth in storage basin =   0.00(Ft.)
------------------------------------------------------------------------
------------------------------------------------------------------------
Initial basin depth =   0.00 (Ft.)
Initial basin storage =      0.00 (Ac.Ft)
Initial basin outflow =   0.00 (CFS)
------------------------------------------------------------------------
------------------------------------------------------------------------
Depth vs. Storage and Depth vs. Discharge data:
 Basin Depth  Storage    Outflow   (S-O*dt/2)   (S+O*dt/2)
     (Ft.)    (Ac.Ft)    (CFS)     (Ac.Ft)    (Ac.Ft)
------------------------------------------------------------------------
   0.000      0.000      0.000      0.000        0.000
   1.000      0.063      0.001      0.063        0.063
   2.000      0.125      0.002      0.125        0.125
   3.000      0.293      0.003      0.293        0.293
   4.000      0.459      0.005      0.459        0.459
   5.000      0.664      0.006      0.664        0.664
   6.000      0.911      0.154      0.910        0.912
   7.000      1.202      0.268      1.201        1.203
   7.850      1.487      0.678      1.485        1.489
   8.200      1.796     22.862      1.717        1.875
------------------------------------------------------------------------
               Hydrograph Detention Basin Routing
------------------------------------------------------------------------

Graph values: 'I'= unit inflow; 'O'=outflow at time shown
------------------------------------------------------------------------
 Time   Inflow  Outflow    Storage                                    Depth
(Hours) (CFS)   (CFS)     (Ac.Ft) .0       0.5    1.02    1.53    2.04 (Ft.)
 0.083    0.06    0.00      0.000  O       |       |       |       |     0.00
 0.167    0.11    0.00      0.001  OI      |       |       |       |     0.01
 0.250    0.12    0.00      0.002  OI      |       |       |       |     0.02
 0.333    0.15    0.00      0.002  O I     |       |       |       |     0.04
 0.417    0.17    0.00      0.004  O I     |       |       |       |     0.06
 0.500    0.18    0.00      0.005  O I     |       |       |       |     0.08
 0.583    0.18    0.00      0.006  O I     |       |       |       |     0.09
 0.667    0.18    0.00      0.007  O I     |       |       |       |     0.11
 0.750    0.18    0.00      0.008  O I     |       |       |       |     0.13
 0.833    0.21    0.00      0.010  O  I    |       |       |       |     0.16
 0.917    0.23    0.00      0.011  O  I    |       |       |       |     0.18
 1.000    0.24    0.00      0.013  O  I    |       |       |       |     0.21
 1.083    0.21    0.00      0.014  O  I    |       |       |       |     0.23
 1.167    0.19    0.00      0.016  O I     |       |       |       |     0.25
 1.250    0.18    0.00      0.017  O I     |       |       |       |     0.27
 1.333    0.18    0.00      0.018  O I     |       |       |       |     0.29
 1.417    0.18    0.00      0.020  O I     |       |       |       |     0.31
 1.500    0.18    0.00      0.021  O I     |       |       |       |     0.33
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1.583	0.18	0.00	0.022	o I	|	|	|	0.35
1.667	0.18	0.00	0.023	o I	|	|	|	0.37
1.750	0.18	0.00	0.025	o I	|	|	|	0.39
1.833	0.21	0.00	0.026	o I	|	|	|	0.41
1.917	0.23	0.00	0.027	o I	|	|	|	0.43
2.000	0.24	0.00	0.029	o I	|	|	|	0.46
2.083	0.24	0.00	0.031	o I	|	|	|	0.49
2.167	0.24	0.00	0.032	o I	|	|	|	0.51
2.250	0.24	0.00	0.034	o I	|	|	|	0.54
2.333	0.24	0.00	0.036	o I	|	|	|	0.57
2.417	0.24	0.00	0.037	o I	|	|	|	0.59
2.500	0.24	0.00	0.039	o I	|	|	|	0.62
2.583	0.27	0.00	0.041	o I	|	|	|	0.65
2.667	0.29	0.00	0.043	o I	|	|	|	0.68
2.750	0.30	0.00	0.045	o I	|	|	|	0.71
2.833	0.30	0.00	0.047	o I	|	|	|	0.74
2.917	0.30	0.00	0.049	o I	|	|	|	0.77
3.000	0.30	0.00	0.051	o I	|	|	|	0.81
3.083	0.30	0.00	0.053	o I	|	|	|	0.84
3.167	0.30	0.00	0.055	o I	|	|	|	0.87
3.250	0.30	0.00	0.057	o I	|	|	|	0.90
3.333	0.30	0.00	0.059	o I	|	|	|	0.94
3.417	0.30	0.00	0.061	o I	|	|	|	0.97
3.500	0.30	0.00	0.063	o I	|	|	|	1.00
3.583	0.30	0.00	0.065	o I	|	|	|	1.04
3.667	0.30	0.00	0.067	o I	|	|	|	1.07
3.750	0.30	0.00	0.069	o I	|	|	|	1.10
3.833	0.33	0.00	0.072	o I	|	|	|	1.14
3.917	0.35	0.00	0.074	o I	|	|	|	1.17
4.000	0.36	0.00	0.076	o I	|	|	|	1.21
4.083	0.36	0.00	0.079	o I	|	|	|	1.25
4.167	0.36	0.00	0.081	o I	|	|	|	1.29
4.250	0.36	0.00	0.084	o I	|	|	|	1.33
4.333	0.39	0.00	0.086	o I	|	|	|	1.38
4.417	0.41	0.00	0.089	o I	|	|	|	1.42
4.500	0.42	0.00	0.092	o I	|	|	|	1.47
4.583	0.42	0.00	0.095	o I	|	|	|	1.51
4.667	0.42	0.00	0.098	o I	|	|	|	1.56
4.750	0.42	0.00	0.101	o I	|	|	|	1.60
4.833	0.45	0.00	0.103	o I	|	|	|	1.65
4.917	0.47	0.00	0.107	o I	|	|	|	1.70
5.000	0.48	0.00	0.110	o I	|	|	|	1.76
5.083	0.42	0.00	0.113	o I	|	|	|	1.81
5.167	0.37	0.00	0.116	o I	|	|	|	1.85
5.250	0.36	0.00	0.118	o I	|	|	|	1.89
5.333	0.39	0.00	0.121	o I	|	|	|	1.93
5.417	0.41	0.00	0.124	o I	|	|	|	1.98
5.500	0.42	0.00	0.126	o I	|	|	|	2.01
5.583	0.45	0.00	0.129	o I	|	|	|	2.03
5.667	0.47	0.00	0.133	o I	|	|	|	2.05
5.750	0.48	0.00	0.136	o I	|	|	|	2.06
5.833	0.48	0.00	0.139	o I	|	|	|	2.08
5.917	0.48	0.00	0.142	o I	|	|	|	2.10
6.000	0.48	0.00	0.146	o I	|	|	|	2.12
6.083	0.51	0.00	0.149	o I	|	|	|	2.14
6.167	0.53	0.00	0.153	o I	|	|	|	2.16
6.250	0.54	0.00	0.156	o I	|	|	|	2.19
6.333	0.54	0.00	0.160	o I	|	|	|	2.21
6.417	0.54	0.00	0.164	o I	|	|	|	2.23
6.500	0.54	0.00	0.167	o I	|	|	|	2.25
6.583	0.57	0.00	0.171	o I	|	|	|	2.28
6.667	0.59	0.00	0.175	o I	|	|	|	2.30
6.750	0.60	0.00	0.179	o I	|	|	|	2.32
6.833	0.60	0.00	0.183	o I	|	|	|	2.35
6.917	0.60	0.00	0.188	o I	|	|	|	2.37
7.000	0.60	0.00	0.192	o I	|	|	|	2.40
7.083	0.60	0.00	0.196	o I	|	|	|	2.42
7.167	0.60	0.00	0.200	o I	|	|	|	2.45
7.250	0.60	0.00	0.204	o I	|	|	|	2.47
7.333	0.63	0.00	0.208	o I	|	|	|	2.50
7.417	0.65	0.00	0.213	o I	|	|	|	2.52
7.500	0.66	0.00	0.217	o I	|	|	|	2.55
7.583	0.69	0.00	0.222	o I	|	|	|	2.58
7.667	0.71	0.00	0.227	o I	|	|	|	2.60
7.750	0.72	0.00	0.231	o I	|	|	|	2.63
7.833	0.75	0.00	0.237	o I	|	|	|	2.66
7.917	0.77	0.00	0.242	o I	|	|	|	2.69
8.000	0.78	0.00	0.247	o I	|	|	|	2.73
8.083	0.84	0.00	0.253	o I	|	|	|	2.76
8.167	0.89	0.00	0.259	o I	|	|	|	2.79
8.250	0.90	0.00	0.265	o I	|	|	|	2.83
8.333	0.90	0.00	0.271	o I	|	|	|	2.87
8.417	0.90	0.00	0.277	o I	|	|	|	2.90
8.500	0.90	0.00	0.283	o I	|	|	|	2.94
8.583	0.93	0.00	0.289	o I	|	|	|	2.98
8.667	0.95	0.00	0.296	o I	|	|	|	3.02
8.750	0.96	0.00	0.302	o I	|	|	|	3.06



8.833	0.99	0.00	0.309	o		I			3.10
8.917	1.01	0.00	0.316	o		I			3.14
9.000	1.02	0.00	0.323	o		I			3.18
9.083	1.08	0.00	0.330	o		I			3.22
9.167	1.13	0.00	0.338	o		I			3.27
9.250	1.14	0.00	0.346	o		I			3.32
9.333	1.17	0.00	0.353	o		I			3.36
9.417	1.19	0.00	0.362	o		I			3.41
9.500	1.20	0.00	0.370	o		I			3.46
9.583	1.23	0.00	0.378	o		I			3.51
9.667	1.25	0.00	0.387	o		I			3.56
9.750	1.26	0.00	0.395	o		I			3.62
9.833	1.29	0.00	0.404	o		I			3.67
9.917	1.31	0.00	0.413	o		I			3.72
10.000	1.32	0.00	0.422	o		I			3.78
10.083	1.13	0.00	0.430	o		I			3.83
10.167	0.95	0.00	0.437	o	I				3.87
10.250	0.91	0.00	0.444	o	I				3.91
10.333	0.90	0.00	0.450	o	I				3.95
10.417	0.90	0.00	0.456	o	I				3.98
10.500	0.90	0.01	0.462	o	I				4.02
10.583	1.04	0.01	0.469	o		I			4.05
10.667	1.17	0.01	0.477	o		I			4.09
10.750	1.19	0.01	0.485	o		I			4.13
10.833	1.20	0.01	0.493	o		I			4.17
10.917	1.20	0.01	0.501	o		I			4.21
11.000	1.20	0.01	0.509	o		I			4.25
11.083	1.17	0.01	0.517	o		I			4.29
11.167	1.15	0.01	0.525	o		I			4.32
11.250	1.14	0.01	0.533	o		I			4.36
11.333	1.14	0.01	0.541	o		I			4.40
11.417	1.14	0.01	0.549	o		I			4.44
11.500	1.14	0.01	0.557	o		I			4.48
11.583	1.09	0.01	0.564	o		I			4.51
11.667	1.03	0.01	0.572	o		I			4.55
11.750	1.02	0.01	0.579	o		I			4.58
11.833	1.05	0.01	0.586	o		I			4.62
11.917	1.07	0.01	0.593	o		I			4.65
12.000	1.08	0.01	0.600	o		I			4.69
12.083	1.28	0.01	0.608	o		I			4.73
12.167	1.45	0.01	0.618	o		I			4.77
12.250	1.49	0.01	0.628	o		I			4.82
12.333	1.53	0.01	0.638	o		I			4.87
12.417	1.55	0.01	0.649	o		I			4.93
12.500	1.56	0.01	0.659	o		I			4.98
12.583	1.62	0.01	0.670	o		I			5.03
12.667	1.67	0.02	0.682	o		I			5.07
12.750	1.68	0.02	0.693	o		I			5.12
12.833	1.71	0.03	0.704	o		I			5.16
12.917	1.73	0.04	0.716	o		I			5.21
13.000	1.74	0.04	0.728	o		I			5.26
13.083	1.88	0.05	0.740	o		I			5.31
13.167	2.01	0.06	0.753	o		I			5.36
13.250	2.03	0.07	0.766	o		I			5.41
13.333	2.04	0.08	0.780	o		I			5.47
13.417	2.04	0.08	0.793	o		I			5.52
13.500	2.04	0.09	0.807	o		I			5.58
13.583	1.74	0.10	0.819	o		I			5.63
13.667	1.46	0.11	0.829	o		I			5.67
13.750	1.40	0.11	0.839	o		I			5.71
13.833	1.38	0.12	0.847	o		I			5.74
13.917	1.38	0.12	0.856	o		I			5.78
14.000	1.38	0.13	0.865	o		I			5.81
14.083	1.49	0.13	0.874	o		I			5.85
14.167	1.59	0.14	0.883	o		I			5.89
14.250	1.61	0.14	0.894	o		I			5.93
14.333	1.59	0.15	0.904	o		I			5.97
14.417	1.57	0.15	0.913	o		I			6.01
14.500	1.56	0.16	0.923	o		I			6.04
14.583	1.56	0.16	0.933	o		I			6.07
14.667	1.56	0.17	0.942	o		I			6.11
14.750	1.56	0.17	0.952	o		I			6.14
14.833	1.53	0.17	0.961	o		I			6.17
14.917	1.51	0.18	0.971	o		I			6.21
15.000	1.50	0.18	0.980	o		I			6.24
15.083	1.47	0.18	0.989	o		I			6.27
15.167	1.45	0.19	0.998	o		I			6.30
15.250	1.44	0.19	1.006	o		I			6.33
15.333	1.41	0.19	1.015	o		I			6.36
15.417	1.39	0.20	1.023	o		I			6.38
15.500	1.38	0.20	1.031	o		I			6.41
15.583	1.27	0.20	1.039	o		I			6.44
15.667	1.17	0.21	1.046	o		I			6.46
15.750	1.15	0.21	1.052	o		I			6.49
15.833	1.14	0.21	1.059	o		I			6.51
15.917	1.14	0.21	1.065	o		I			6.53
16.000	1.14	0.22	1.072	o		I			6.55

16.083	0.72	0.22	1.077	O	I			6.57
16.167	0.34	0.22	1.079	O I				6.58
16.250	0.27	0.22	1.079	OI				6.58
16.333	0.24	0.22	1.080	O				6.58
16.417	0.24	0.22	1.080	O				6.58
16.500	0.24	0.22	1.080	O				6.58
16.583	0.21	0.22	1.080	O				6.58
16.667	0.19	0.22	1.080	IO				6.58
16.750	0.18	0.22	1.080	IO				6.58
16.833	0.18	0.22	1.079	IO				6.58
16.917	0.18	0.22	1.079	IO				6.58
17.000	0.18	0.22	1.079	IO				6.58
17.083	0.24	0.22	1.079	O				6.58
17.167	0.29	0.22	1.079	OI				6.58
17.250	0.30	0.22	1.079	OI				6.58
17.333	0.30	0.22	1.080	OI				6.58
17.417	0.30	0.22	1.080	OI				6.58
17.500	0.30	0.22	1.081	OI				6.58
17.583	0.30	0.22	1.082	OI				6.59
17.667	0.30	0.22	1.082	OI				6.59
17.750	0.30	0.22	1.083	OI				6.59
17.833	0.27	0.22	1.083	OI				6.59
17.917	0.25	0.22	1.083	O				6.59
18.000	0.24	0.22	1.084	O				6.59
18.083	0.24	0.22	1.084	O				6.59
18.167	0.24	0.22	1.084	O				6.59
18.250	0.24	0.22	1.084	O				6.59
18.333	0.24	0.22	1.084	O				6.59
18.417	0.24	0.22	1.084	O				6.60
18.500	0.24	0.22	1.084	O				6.60
18.583	0.21	0.22	1.084	O				6.60
18.667	0.19	0.22	1.084	IO				6.60
18.750	0.18	0.22	1.084	IO				6.59
18.833	0.15	0.22	1.084	IO				6.59
18.917	0.13	0.22	1.083	I O				6.59
19.000	0.12	0.22	1.082	I O				6.59
19.083	0.15	0.22	1.082	IO				6.59
19.167	0.17	0.22	1.081	IO				6.59
19.250	0.18	0.22	1.081	IO				6.58
19.333	0.21	0.22	1.081	O				6.58
19.417	0.23	0.22	1.081	O				6.58
19.500	0.24	0.22	1.081	O				6.58
19.583	0.21	0.22	1.081	O				6.58
19.667	0.19	0.22	1.081	IO				6.58
19.750	0.18	0.22	1.081	IO				6.58
19.833	0.15	0.22	1.080	IO				6.58
19.917	0.13	0.22	1.080	I O				6.58
20.000	0.12	0.22	1.079	I O				6.58
20.083	0.15	0.22	1.078	IO				6.58
20.167	0.17	0.22	1.078	IO				6.57
20.250	0.18	0.22	1.078	IO				6.57
20.333	0.18	0.22	1.077	IO				6.57
20.417	0.18	0.22	1.077	IO				6.57
20.500	0.18	0.22	1.077	IO				6.57
20.583	0.18	0.22	1.077	IO				6.57
20.667	0.18	0.22	1.076	IO				6.57
20.750	0.18	0.22	1.076	IO				6.57
20.833	0.15	0.22	1.076	IO				6.57
20.917	0.13	0.22	1.075	I O				6.56
21.000	0.12	0.22	1.075	I O				6.56
21.083	0.15	0.22	1.074	IO				6.56
21.167	0.17	0.22	1.074	IO				6.56
21.250	0.18	0.22	1.073	IO				6.56
21.333	0.15	0.22	1.073	IO				6.56
21.417	0.13	0.22	1.072	I O				6.55
21.500	0.12	0.22	1.072	I O				6.55
21.583	0.15	0.22	1.071	IO				6.55
21.667	0.17	0.22	1.071	IO				6.55
21.750	0.18	0.22	1.071	IO				6.55
21.833	0.15	0.22	1.070	IO				6.55
21.917	0.13	0.22	1.070	I O				6.55
22.000	0.12	0.22	1.069	I O				6.54
22.083	0.15	0.22	1.068	IO				6.54
22.167	0.17	0.22	1.068	IO				6.54
22.250	0.18	0.22	1.068	IO				6.54
22.333	0.15	0.22	1.067	IO				6.54
22.417	0.13	0.22	1.067	I O				6.54
22.500	0.12	0.21	1.066	I O				6.53
22.583	0.12	0.21	1.066	I O				6.53
22.667	0.12	0.21	1.065	I O				6.53
22.750	0.12	0.21	1.064	I O				6.53
22.833	0.12	0.21	1.064	I O				6.52
22.917	0.12	0.21	1.063	I O				6.52
23.000	0.12	0.21	1.062	I O				6.52
23.083	0.12	0.21	1.062	I O				6.52
23.167	0.12	0.21	1.061	I O				6.52
23.250	0.12	0.21	1.061	I O				6.51

23.333	0.12	0.21	1.060	I o				6.51
23.417	0.12	0.21	1.059	I o				6.51
23.500	0.12	0.21	1.059	I o				6.51
23.583	0.12	0.21	1.058	I o				6.51
23.667	0.12	0.21	1.057	I o				6.50
23.750	0.12	0.21	1.057	I o				6.50
23.833	0.12	0.21	1.056	I o				6.50
23.917	0.12	0.21	1.055	I o				6.50
24.000	0.12	0.21	1.055	I o				6.49
24.083	0.06	0.21	1.054	I o				6.49
24.167	0.01	0.21	1.053	I o				6.49
24.250	0.00	0.21	1.051	I o				6.48
24.333	0.00	0.21	1.050	I o				6.48
24.417	0.00	0.21	1.049	I o				6.47
24.500	0.00	0.21	1.047	I o				6.47
24.583	0.00	0.21	1.046	I o				6.46
24.667	0.00	0.21	1.044	I o				6.46
24.750	0.00	0.21	1.043	I o				6.45
24.833	0.00	0.21	1.042	I o				6.45
24.917	0.00	0.20	1.040	I o				6.44
25.000	0.00	0.20	1.039	I o				6.44
25.083	0.00	0.20	1.037	I o				6.43
25.167	0.00	0.20	1.036	I o				6.43
25.250	0.00	0.20	1.034	I o				6.42
25.333	0.00	0.20	1.033	I o				6.42
25.417	0.00	0.20	1.032	I o				6.41
25.500	0.00	0.20	1.030	I o				6.41
25.583	0.00	0.20	1.029	I o				6.41
25.667	0.00	0.20	1.028	I o				6.40
25.750	0.00	0.20	1.026	I o				6.40
25.833	0.00	0.20	1.025	I o				6.39
25.917	0.00	0.20	1.023	I o				6.39
26.000	0.00	0.20	1.022	I o				6.38
26.083	0.00	0.20	1.021	I o				6.38
26.167	0.00	0.20	1.019	I o				6.37
26.250	0.00	0.20	1.018	I o				6.37
26.333	0.00	0.20	1.017	I o				6.36
26.417	0.00	0.19	1.015	I o				6.36
26.500	0.00	0.19	1.014	I o				6.35
26.583	0.00	0.19	1.013	I o				6.35
26.667	0.00	0.19	1.011	I o				6.34
26.750	0.00	0.19	1.010	I o				6.34
26.833	0.00	0.19	1.009	I o				6.34
26.917	0.00	0.19	1.007	I o				6.33
27.000	0.00	0.19	1.006	I o				6.33
27.083	0.00	0.19	1.005	I o				6.32
27.167	0.00	0.19	1.003	I o				6.32
27.250	0.00	0.19	1.002	I o				6.31
27.333	0.00	0.19	1.001	I o				6.31
27.417	0.00	0.19	0.999	I o				6.30
27.500	0.00	0.19	0.998	I o				6.30
27.583	0.00	0.19	0.997	I o				6.30
27.667	0.00	0.19	0.996	I o				6.29
27.750	0.00	0.19	0.994	I o				6.29
27.833	0.00	0.19	0.993	I o				6.28
27.917	0.00	0.19	0.992	I o				6.28
28.000	0.00	0.19	0.990	I o				6.27
28.083	0.00	0.18	0.989	I o				6.27
28.167	0.00	0.18	0.988	I o				6.26
28.250	0.00	0.18	0.987	I o				6.26
28.333	0.00	0.18	0.985	I o				6.26
28.417	0.00	0.18	0.984	I o				6.25
28.500	0.00	0.18	0.983	I o				6.25
28.583	0.00	0.18	0.982	I o				6.24
28.667	0.00	0.18	0.980	I o				6.24
28.750	0.00	0.18	0.979	I o				6.23
28.833	0.00	0.18	0.978	I o				6.23
28.917	0.00	0.18	0.977	I o				6.23
29.000	0.00	0.18	0.975	I o				6.22
29.083	0.00	0.18	0.974	I o				6.22
29.167	0.00	0.18	0.973	I o				6.21
29.250	0.00	0.18	0.972	I o				6.21
29.333	0.00	0.18	0.971	I o				6.20
29.417	0.00	0.18	0.969	I o				6.20
29.500	0.00	0.18	0.968	I o				6.20
29.583	0.00	0.18	0.967	I o				6.19
29.667	0.00	0.18	0.966	I o				6.19
29.750	0.00	0.17	0.964	I o				6.18
29.833	0.00	0.17	0.963	I o				6.18
29.917	0.00	0.17	0.962	I o				6.18
30.000	0.00	0.17	0.961	I o				6.17
30.083	0.00	0.17	0.960	I o				6.17
30.167	0.00	0.17	0.958	I o				6.16
30.250	0.00	0.17	0.957	I o				6.16
30.333	0.00	0.17	0.956	I o				6.15
30.417	0.00	0.17	0.955	I o				6.15
30.500	0.00	0.17	0.954	I o				6.15

30.583	0.00	0.17	0.953	I O	|	|	|	6.14
30.667	0.00	0.17	0.951	I O	|	|	|	6.14
30.750	0.00	0.17	0.950	I O	|	|	|	6.13
30.833	0.00	0.17	0.949	I O	|	|	|	6.13
30.917	0.00	0.17	0.948	I O	|	|	|	6.13
31.000	0.00	0.17	0.947	I O	|	|	|	6.12
31.083	0.00	0.17	0.946	I O	|	|	|	6.12
31.167	0.00	0.17	0.944	I O	|	|	|	6.11
31.250	0.00	0.17	0.943	I O	|	|	|	6.11
31.333	0.00	0.17	0.942	I O	|	|	|	6.11
31.417	0.00	0.17	0.941	I O	|	|	|	6.10
31.500	0.00	0.17	0.940	I O	|	|	|	6.10
31.583	0.00	0.16	0.939	I O	|	|	|	6.10
31.667	0.00	0.16	0.938	I O	|	|	|	6.09
31.750	0.00	0.16	0.936	I O	|	|	|	6.09
31.833	0.00	0.16	0.935	I O	|	|	|	6.08
31.917	0.00	0.16	0.934	I O	|	|	|	6.08
32.000	0.00	0.16	0.933	I O	|	|	|	6.08
32.083	0.00	0.16	0.932	I O	|	|	|	6.07
32.167	0.00	0.16	0.931	I O	|	|	|	6.07
32.250	0.00	0.16	0.930	I O	|	|	|	6.06
32.333	0.00	0.16	0.929	I O	|	|	|	6.06
32.417	0.00	0.16	0.928	I O	|	|	|	6.06
32.500	0.00	0.16	0.926	I O	|	|	|	6.05
32.583	0.00	0.16	0.925	I O	|	|	|	6.05
32.667	0.00	0.16	0.924	I O	|	|	|	6.05
32.750	0.00	0.16	0.923	I O	|	|	|	6.04
32.833	0.00	0.16	0.922	I O	|	|	|	6.04
32.917	0.00	0.16	0.921	I O	|	|	|	6.03
33.000	0.00	0.16	0.920	I O	|	|	|	6.03
33.083	0.00	0.16	0.919	I O	|	|	|	6.03
33.167	0.00	0.16	0.918	I O	|	|	|	6.02
33.250	0.00	0.16	0.917	I O	|	|	|	6.02
33.333	0.00	0.16	0.916	I O	|	|	|	6.02
33.417	0.00	0.16	0.914	I O	|	|	|	6.01
33.500	0.00	0.15	0.913	I O	|	|	|	6.01
33.583	0.00	0.15	0.912	I O	|	|	|	6.00
33.667	0.00	0.15	0.911	I O	|	|	|	6.00
33.750	0.00	0.15	0.910	I O	|	|	|	6.00
33.833	0.00	0.15	0.909	I O	|	|	|	5.99
33.917	0.00	0.15	0.908	I O	|	|	|	5.99
34.000	0.00	0.15	0.907	I O	|	|	|	5.98
34.083	0.00	0.15	0.906	I O	|	|	|	5.98
34.167	0.00	0.15	0.905	I O	|	|	|	5.98
34.250	0.00	0.15	0.904	I O	|	|	|	5.97
34.333	0.00	0.15	0.903	I O	|	|	|	5.97
34.417	0.00	0.15	0.902	I O	|	|	|	5.96
34.500	0.00	0.15	0.901	I O	|	|	|	5.96
34.583	0.00	0.15	0.900	I O	|	|	|	5.95
34.667	0.00	0.15	0.899	I O	|	|	|	5.95
34.750	0.00	0.15	0.898	I O	|	|	|	5.95
34.833	0.00	0.15	0.897	I O	|	|	|	5.94
34.917	0.00	0.14	0.896	I O	|	|	|	5.94
35.000	0.00	0.14	0.895	I O	|	|	|	5.93
35.083	0.00	0.14	0.894	I O	|	|	|	5.93
35.167	0.00	0.14	0.893	I O	|	|	|	5.93
35.250	0.00	0.14	0.892	I O	|	|	|	5.92
35.333	0.00	0.14	0.891	I O	|	|	|	5.92
35.417	0.00	0.14	0.890	I O	|	|	|	5.91
35.500	0.00	0.14	0.889	I O	|	|	|	5.91
35.583	0.00	0.14	0.888	I O	|	|	|	5.91
35.667	0.00	0.14	0.887	I O	|	|	|	5.90
35.750	0.00	0.14	0.886	I O	|	|	|	5.90
35.833	0.00	0.14	0.885	I O	|	|	|	5.90
35.917	0.00	0.14	0.884	I O	|	|	|	5.89
36.000	0.00	0.14	0.883	I O	|	|	|	5.89
36.083	0.00	0.14	0.882	I O	|	|	|	5.88
36.167	0.00	0.14	0.881	I O	|	|	|	5.88
36.250	0.00	0.14	0.880	I O	|	|	|	5.88
36.333	0.00	0.14	0.879	I O	|	|	|	5.87
36.417	0.00	0.13	0.879	I O	|	|	|	5.87
36.500	0.00	0.13	0.878	I O	|	|	|	5.86
36.583	0.00	0.13	0.877	I O	|	|	|	5.86
36.667	0.00	0.13	0.876	I O	|	|	|	5.86
36.750	0.00	0.13	0.875	I O	|	|	|	5.85
36.833	0.00	0.13	0.874	I O	|	|	|	5.85
36.917	0.00	0.13	0.873	I O	|	|	|	5.85
37.000	0.00	0.13	0.872	I O	|	|	|	5.84
37.083	0.00	0.13	0.871	I O	|	|	|	5.84
37.167	0.00	0.13	0.870	I O	|	|	|	5.84
37.250	0.00	0.13	0.869	I O	|	|	|	5.83
37.333	0.00	0.13	0.869	I O	|	|	|	5.83
37.417	0.00	0.13	0.868	I O	|	|	|	5.82
37.500	0.00	0.13	0.867	IO	|	|	|	5.82
37.583	0.00	0.13	0.866	IO	|	|	|	5.82
37.667	0.00	0.13	0.865	IO	|	|	|	5.81
37.750	0.00	0.13	0.864	IO	|	|	|	5.81

37.833	0.00	0.13	0.863	IO	|	|	|	|	5.81
37.917	0.00	0.12	0.862	IO	|	|	|	|	5.80
38.000	0.00	0.12	0.862	IO	|	|	|	|	5.80
38.083	0.00	0.12	0.861	IO	|	|	|	|	5.80
38.167	0.00	0.12	0.860	IO	|	|	|	|	5.79
38.250	0.00	0.12	0.859	IO	|	|	|	|	5.79
38.333	0.00	0.12	0.858	IO	|	|	|	|	5.79
38.417	0.00	0.12	0.857	IO	|	|	|	|	5.78
38.500	0.00	0.12	0.857	IO	|	|	|	|	5.78
38.583	0.00	0.12	0.856	IO	|	|	|	|	5.78
38.667	0.00	0.12	0.855	IO	|	|	|	|	5.77
38.750	0.00	0.12	0.854	IO	|	|	|	|	5.77
38.833	0.00	0.12	0.853	IO	|	|	|	|	5.77
38.917	0.00	0.12	0.852	IO	|	|	|	|	5.76
39.000	0.00	0.12	0.852	IO	|	|	|	|	5.76
39.083	0.00	0.12	0.851	IO	|	|	|	|	5.76
39.167	0.00	0.12	0.850	IO	|	|	|	|	5.75
39.250	0.00	0.12	0.849	IO	|	|	|	|	5.75
39.333	0.00	0.12	0.848	IO	|	|	|	|	5.75
39.417	0.00	0.12	0.848	IO	|	|	|	|	5.74
39.500	0.00	0.12	0.847	IO	|	|	|	|	5.74
39.583	0.00	0.12	0.846	IO	|	|	|	|	5.74
39.667	0.00	0.11	0.845	IO	|	|	|	|	5.73
39.750	0.00	0.11	0.844	IO	|	|	|	|	5.73
39.833	0.00	0.11	0.844	IO	|	|	|	|	5.73
39.917	0.00	0.11	0.843	IO	|	|	|	|	5.72
40.000	0.00	0.11	0.842	IO	|	|	|	|	5.72
40.083	0.00	0.11	0.841	IO	|	|	|	|	5.72
40.167	0.00	0.11	0.840	IO	|	|	|	|	5.71
40.250	0.00	0.11	0.840	IO	|	|	|	|	5.71
40.333	0.00	0.11	0.839	IO	|	|	|	|	5.71
40.417	0.00	0.11	0.838	IO	|	|	|	|	5.71
40.500	0.00	0.11	0.837	IO	|	|	|	|	5.70
40.583	0.00	0.11	0.837	IO	|	|	|	|	5.70
40.667	0.00	0.11	0.836	IO	|	|	|	|	5.70
40.750	0.00	0.11	0.835	IO	|	|	|	|	5.69
40.833	0.00	0.11	0.834	IO	|	|	|	|	5.69
40.917	0.00	0.11	0.834	IO	|	|	|	|	5.69
41.000	0.00	0.11	0.833	IO	|	|	|	|	5.68
41.083	0.00	0.11	0.832	IO	|	|	|	|	5.68
41.167	0.00	0.11	0.831	IO	|	|	|	|	5.68
41.250	0.00	0.11	0.831	IO	|	|	|	|	5.67
41.333	0.00	0.11	0.830	IO	|	|	|	|	5.67
41.417	0.00	0.11	0.829	IO	|	|	|	|	5.67
41.500	0.00	0.10	0.829	IO	|	|	|	|	5.67
41.583	0.00	0.10	0.828	IO	|	|	|	|	5.66
41.667	0.00	0.10	0.827	IO	|	|	|	|	5.66
41.750	0.00	0.10	0.826	IO	|	|	|	|	5.66
41.833	0.00	0.10	0.826	IO	|	|	|	|	5.65
41.917	0.00	0.10	0.825	IO	|	|	|	|	5.65
42.000	0.00	0.10	0.824	IO	|	|	|	|	5.65
42.083	0.00	0.10	0.824	IO	|	|	|	|	5.65
42.167	0.00	0.10	0.823	IO	|	|	|	|	5.64
42.250	0.00	0.10	0.822	IO	|	|	|	|	5.64
42.333	0.00	0.10	0.821	IO	|	|	|	|	5.64
42.417	0.00	0.10	0.821	IO	|	|	|	|	5.63

Remaining water in basin = 0.82 (Ac.Ft)

**********HYDROGRAPH DATA**********

Number of intervals = 509
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 0.222 (CFS)
Total volume = 0.420 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

****

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                          Study date: 03/02/22

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******************** HYDROGRAPH INFORMATION **********************

               From study/file name: pro110110.rte
*****************************HYDROGRAPH DATA*****************************
               Number of intervals =    15
               Time interval =    5.0 (Min.)
               Maximum/Peak flow rate =       16.350 (CFS)
               Total volume =       0.489 (Ac.Ft)
       Status of hydrographs being held in storage
                    Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
       Peak (CFS)      0.000     0.000     0.000     0.000     0.000
       Vol (Ac.Ft)     0.000     0.000     0.000     0.000     0.000
************************************************************************



++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        1.000 to Point/Station        2.000
**** RETARDING BASIN ROUTING ****
____________________________________________________________________________

User entry of depth-outflow-storage data
------------------------------------------------------------------------
Total number of inflow hydrograph intervals = 15
Hydrograph time unit =  5.000 (Min.)
Initial depth in storage basin =   0.00(Ft.)
------------------------------------------------------------------------
------------------------------------------------------------------------
Initial basin depth =   0.00 (Ft.)
Initial basin storage =      0.00 (Ac.Ft)
Initial basin outflow =   0.00 (CFS)
------------------------------------------------------------------------
------------------------------------------------------------------------
Depth vs. Storage and Depth vs. Discharge data:
 Basin Depth  Storage    Outflow   (S-O*dt/2)   (S+O*dt/2)
     (Ft.)    (Ac.Ft)    (CFS)     (Ac.Ft)    (Ac.Ft)
------------------------------------------------------------------------
   0.000      0.000      0.000      0.000        0.000
   1.000      0.063      0.001      0.063        0.063
   2.000      0.125      0.002      0.125        0.125
   3.000      0.293      0.003      0.293        0.293
   4.000      0.459      0.005      0.459        0.459
   5.000      0.664      0.006      0.664        0.664
   6.000      0.911      0.154      0.910        0.912
   7.000      1.202      0.268      1.201        1.203
   7.850      1.487      0.678      1.485        1.489
   8.200      1.796     22.862      1.717        1.875
------------------------------------------------------------------------
               Hydrograph Detention Basin Routing
------------------------------------------------------------------------

Graph values: 'I'= unit inflow; 'O'=outflow at time shown
------------------------------------------------------------------------
 Time   Inflow  Outflow    Storage                                    Depth
(Hours) (CFS)   (CFS)     (Ac.Ft) .0       4.1    8.17   12.26   16.35 (Ft.)
 0.083    1.14    0.00      0.004  O I     |       |       |       |     0.06
 0.167    2.19    0.00      0.015  O   I   |       |       |       |     0.24
 0.250    2.61    0.00      0.032  O    I  |       |       |       |     0.51
 0.333    2.87    0.00      0.051  O    I  |       |       |       |     0.81
 0.417    3.12    0.00      0.071  O     I |       |       |       |     1.14
 0.500    3.62    0.00      0.095  O      I|       |       |       |     1.51
 0.583    4.31    0.00      0.122  O       I       |       |       |     1.95
 0.667    5.26    0.00      0.155  O       | I     |       |       |     2.18
 0.750    7.44    0.00      0.198  O       |     I |       |       |     2.44
 0.833   16.35    0.00      0.280  O       |       |       |       I     2.92
 0.917   13.61    0.00      0.384  O       |       |       | I     |     3.55
 1.000    5.53    0.00      0.449  O       | I     |       |       |     3.94
 1.083    2.44    0.01      0.477  O   I   |       |       |       |     4.09
 1.167    0.38    0.01      0.487  O       |       |       |       |     4.13
 1.250    0.10    0.01      0.488  O       |       |       |       |     4.14
 1.333    0.00    0.01      0.488  O       |       |       |       |     4.14
```

```
Remaining water in basin =    0.49 (Ac.Ft)


**************************HYDROGRAPH DATA**************************
               Number of intervals =    16
               Time interval =    5.0 (Min.)
               Maximum/Peak flow rate =        0.005 (CFS)
               Total volume =       0.000 (Ac.Ft)
       Status of hydrographs being held in storage
                  Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
       Peak (CFS)      0.000     0.000     0.000     0.000     0.000
       Vol (Ac.Ft)      0.000     0.000     0.000     0.000     0.000
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******************** HYDROGRAPH INFORMATION **********************

               From study/file name: pro110310.rte
*****************************HYDROGRAPH DATA*****************************
               Number of intervals =    39
               Time interval =    5.0 (Min.)
               Maximum/Peak flow rate =        9.183 (CFS)
               Total volume =       0.698 (Ac.Ft)
       Status of hydrographs being held in storage
                    Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
       Peak (CFS)      0.000     0.000     0.000     0.000     0.000
       Vol (Ac.Ft)     0.000     0.000     0.000     0.000     0.000
************************************************************************



++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        1.000 to Point/Station        2.000
**** RETARDING BASIN ROUTING ****
____________________________________________________________________________

User entry of depth-outflow-storage data
------------------------------------------------------------------------
Total number of inflow hydrograph intervals = 39
Hydrograph time unit =  5.000 (Min.)
Initial depth in storage basin =   0.00(Ft.)
------------------------------------------------------------------------
------------------------------------------------------------------------
Initial basin depth =   0.00 (Ft.)
Initial basin storage =      0.00 (Ac.Ft)
Initial basin outflow =   0.00 (CFS)
------------------------------------------------------------------------
------------------------------------------------------------------------
Depth vs. Storage and Depth vs. Discharge data:
 Basin Depth  Storage    Outflow   (S-O*dt/2)   (S+O*dt/2)
     (Ft.)    (Ac.Ft)    (CFS)     (Ac.Ft)    (Ac.Ft)
------------------------------------------------------------------------
   0.000      0.000      0.000      0.000        0.000
   1.000      0.063      0.001      0.063        0.063
   2.000      0.125      0.002      0.125        0.125
   3.000      0.293      0.003      0.293        0.293
   4.000      0.459      0.005      0.459        0.459
   5.000      0.664      0.006      0.664        0.664
   6.000      0.911      0.154      0.910        0.912
   7.000      1.202      0.268      1.201        1.203
   7.850      1.487      0.678      1.485        1.489
   8.200      1.796     22.862      1.717        1.875
------------------------------------------------------------------------
               Hydrograph Detention Basin Routing
------------------------------------------------------------------------

Graph values: 'I'= unit inflow; 'O'=outflow at time shown
------------------------------------------------------------------------
 Time   Inflow  Outflow    Storage                                    Depth
(Hours) (CFS)   (CFS)     (Ac.Ft) .0       2.3    4.59    6.89    9.18 (Ft.)
 0.083    0.56    0.00      0.002  OI      |       |       |       |     0.03
 0.167    1.07    0.00      0.008  O  I    |       |       |       |     0.12
 0.250    1.08    0.00      0.015  O  I    |       |       |       |     0.24
 0.333    1.21    0.00      0.023  O   I   |       |       |       |     0.36
 0.417    1.35    0.00      0.032  O   I   |       |       |       |     0.50
 0.500    1.51    0.00      0.041  O    I  |       |       |       |     0.66
 0.583    1.51    0.00      0.052  O    I  |       |       |       |     0.82
 0.667    1.54    0.00      0.062  O    I  |       |       |       |     0.99
 0.750    1.65    0.00      0.073  O    I  |       |       |       |     1.17
 0.833    1.53    0.00      0.084  O    I  |       |       |       |     1.34
 0.917    1.47    0.00      0.095  O    I  |       |       |       |     1.51
 1.000    1.57    0.00      0.105  O    I  |       |       |       |     1.68
 1.083    1.82    0.00      0.117  O     I |       |       |       |     1.87
 1.167    1.99    0.00      0.130  O     I |       |       |       |     2.03
 1.250    2.03    0.00      0.144  O      I|       |       |       |     2.11
 1.333    1.95    0.00      0.157  O     I |       |       |       |     2.19
 1.417    2.13    0.00      0.171  O      I|       |       |       |     2.28
 1.500    2.40    0.00      0.187  O       I       |       |       |     2.37
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1.583    2.35    0.00      0.203  O       I       |       |       |     2.47
1.667    2.38    0.00      0.220  O       I       |       |       |     2.56
1.750    2.74    0.00      0.237  O       |I      |       |       |     2.67
1.833    2.90    0.00      0.257  O       | I     |       |       |     2.78
1.917    2.79    0.00      0.276  O       |I      |       |       |     2.90
2.000    2.76    0.00      0.295  O       |I      |       |       |     3.01
2.083    2.82    0.00      0.314  O       |I      |       |       |     3.13
2.167    3.46    0.00      0.336  O       |   I   |       |       |     3.26
2.250    4.57    0.00      0.364  O       |      I|       |       |     3.43
2.333    4.20    0.00      0.394  O       |     I |       |       |     3.61
2.417    5.68    0.00      0.428  O       |       |  I    |       |     3.81
2.500    7.93    0.01      0.475  O       |       |       |  I    |     4.08
2.583    9.18    0.01      0.534  O       |       |       |      I|     4.36
2.667    8.38    0.01      0.594  O       |       |       |    I  |     4.66
2.750    4.81    0.01      0.639  O       |       I       |       |     4.88
2.833    2.45    0.01      0.664  O       I       |       |       |     5.00
2.917    1.86    0.02      0.679  O     I |       |       |       |     5.06
3.000    1.16    0.02      0.689  O   I   |       |       |       |     5.10
3.083    0.43    0.02      0.695  OI      |       |       |       |     5.12
3.167    0.10    0.03      0.696  O       |       |       |       |     5.13
3.250    0.02    0.03      0.697  O       |       |       |       |     5.13
3.333    0.00    0.03      0.696  O       |       |       |       |     5.13

Remaining water in basin =    0.70 (Ac.Ft)

****************************HYDROGRAPH DATA****************************
              Number of intervals =    40
              Time interval =    5.0 (Min.)
              Maximum/Peak flow rate =        0.026 (CFS)
              Total volume =       0.002 (Ac.Ft)
       Status of hydrographs being held in storage
                    Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
       Peak (CFS)      0.000     0.000     0.000     0.000     0.000
       Vol (Ac.Ft)      0.000     0.000     0.000     0.000     0.000
***********************************************************************

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******************** HYDROGRAPH INFORMATION **********************

                From study/file name: pro110610.rte
*****************************HYDROGRAPH DATA*****************************
                Number of intervals =    75
                Time interval =    5.0 (Min.)
                Maximum/Peak flow rate =        8.351 (CFS)
                Total volume =       0.934 (Ac.Ft)
        Status of hydrographs being held in storage
                     Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
        Peak (CFS)       0.000     0.000     0.000     0.000     0.000
        Vol (Ac.Ft)      0.000     0.000     0.000     0.000     0.000
************************************************************************



++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        1.000 to Point/Station        2.000
**** RETARDING BASIN ROUTING ****
____________________________________________________________________________

User entry of depth-outflow-storage data
------------------------------------------------------------------------
Total number of inflow hydrograph intervals = 75
Hydrograph time unit =  5.000 (Min.)
Initial depth in storage basin =   0.00(Ft.)
------------------------------------------------------------------------
------------------------------------------------------------------------
Initial basin depth =   0.00 (Ft.)
Initial basin storage =      0.00 (Ac.Ft)
Initial basin outflow =   0.00 (CFS)
------------------------------------------------------------------------
------------------------------------------------------------------------
Depth vs. Storage and Depth vs. Discharge data:
 Basin Depth  Storage    Outflow   (S-O*dt/2)   (S+O*dt/2)
     (Ft.)    (Ac.Ft)    (CFS)     (Ac.Ft)    (Ac.Ft)
------------------------------------------------------------------------
   0.000      0.000      0.000      0.000        0.000
   1.000      0.063      0.001      0.063        0.063
   2.000      0.125      0.002      0.125        0.125
   3.000      0.293      0.003      0.293        0.293
   4.000      0.459      0.005      0.459        0.459
   5.000      0.664      0.006      0.664        0.664
   6.000      0.911      0.154      0.910        0.912
   7.000      1.202      0.268      1.201        1.203
   7.850      1.487      0.678      1.485        1.489
   8.200      1.796     22.862      1.717        1.875
------------------------------------------------------------------------
                Hydrograph Detention Basin Routing
------------------------------------------------------------------------

Graph values: 'I'= unit inflow; 'O'=outflow at time shown
------------------------------------------------------------------------
  Time   Inflow  Outflow    Storage                                    Depth
 (Hours)  (CFS)   (CFS)     (Ac.Ft) .0       2.1    4.18    6.26    8.35 (Ft.)
  0.083    0.30    0.00      0.001  OI      |       |       |       |     0.02
  0.167    0.63    0.00      0.004  O I     |       |       |       |     0.07
  0.250    0.73    0.00      0.009  O I     |       |       |       |     0.14
  0.333    0.77    0.00      0.014  O I     |       |       |       |     0.22
  0.417    0.77    0.00      0.019  O I     |       |       |       |     0.31
  0.500    0.83    0.00      0.025  O  I    |       |       |       |     0.39
  0.583    0.88    0.00      0.031  O  I    |       |       |       |     0.49
  0.667    0.89    0.00      0.037  O  I    |       |       |       |     0.59
  0.750    0.90    0.00      0.043  O  I    |       |       |       |     0.68
  0.833    0.90    0.00      0.049  O  I    |       |       |       |     0.78
  0.917    0.90    0.00      0.055  O  I    |       |       |       |     0.88
  1.000    0.96    0.00      0.062  O  I    |       |       |       |     0.98
  1.083    1.01    0.00      0.069  O  I    |       |       |       |     1.09
  1.167    1.02    0.00      0.076  O  I    |       |       |       |     1.20
  1.250    1.03    0.00      0.083  O  I    |       |       |       |     1.32
  1.333    1.03    0.00      0.090  O  I    |       |       |       |     1.43
  1.417    1.03    0.00      0.097  O  I    |       |       |       |     1.55
  1.500    1.03    0.00      0.104  O  I    |       |       |       |     1.66
```

1.583	1.03	0.00	0.111	o	I	|	|	|	1.77
1.667	1.03	0.00	0.118	o	I	|	|	|	1.89
1.750	1.03	0.00	0.125	o	I	|	|	|	2.00
1.833	1.03	0.00	0.132	o	I	|	|	|	2.04
1.917	1.03	0.00	0.139	o	I	|	|	|	2.08
2.000	1.09	0.00	0.146	o	I	|	|	|	2.13
2.083	1.08	0.00	0.154	o	I	|	|	|	2.17
2.167	1.10	0.00	0.161	o	I	|	|	|	2.22
2.250	1.15	0.00	0.169	o	I	|	|	|	2.26
2.333	1.15	0.00	0.177	o	I	|	|	|	2.31
2.417	1.16	0.00	0.185	o	I	|	|	|	2.36
2.500	1.16	0.00	0.193	o	I	|	|	|	2.40
2.583	1.16	0.00	0.201	o	I	|	|	|	2.45
2.667	1.16	0.00	0.209	o	I	|	|	|	2.50
2.750	1.22	0.00	0.217	o	I	|	|	|	2.55
2.833	1.27	0.00	0.225	o	I	|	|	|	2.60
2.917	1.28	0.00	0.234	o	I	|	|	|	2.65
3.000	1.28	0.00	0.243	o	I	|	|	|	2.70
3.083	1.28	0.00	0.252	o	I	|	|	|	2.76
3.167	1.34	0.00	0.261	o	I	|	|	|	2.81
3.250	1.40	0.00	0.270	o	I	|	|	|	2.86
3.333	1.41	0.00	0.280	o	I	|	|	|	2.92
3.417	1.47	0.00	0.290	o	I	|	|	|	2.98
3.500	1.59	0.00	0.300	o	I	|	|	|	3.04
3.583	1.71	0.00	0.312	o	I	|	|	|	3.11
3.667	1.78	0.00	0.324	o	I	|	|	|	3.18
3.750	1.85	0.00	0.336	o	I	|	|	|	3.26
3.833	1.91	0.00	0.349	o	I	|	|	|	3.34
3.917	1.98	0.00	0.363	o	I	|	|	|	3.42
4.000	2.04	0.00	0.376	o	I	|	|	|	3.50
4.083	2.11	0.00	0.391	o	I	|	|	|	3.59
4.167	2.23	0.00	0.406	o	I	|	|	|	3.68
4.250	2.35	0.00	0.421	o	I	|	|	|	3.77
4.333	2.48	0.00	0.438	o	I	|	|	|	3.87
4.417	2.61	0.00	0.455	o	I	|	|	|	3.98
4.500	2.68	0.01	0.474	o	I	|	|	|	4.07
4.583	2.75	0.01	0.492	o	I	|	|	|	4.16
4.667	2.87	0.01	0.512	o	I	|	|	|	4.26
4.750	2.99	0.01	0.532	o	I	|	|	|	4.35
4.833	3.06	0.01	0.553	o	I	|	|	|	4.46
4.917	3.14	0.01	0.574	o	I	|	|	|	4.56
5.000	3.26	0.01	0.596	o	I	|	|	|	4.67
5.083	3.77	0.01	0.620	o	I	|	|	|	4.79
5.167	4.68	0.01	0.649	o	I	|	|	|	4.93
5.250	5.48	0.02	0.684	o	I	|	|	|	5.08
5.333	6.15	0.04	0.724	o	I	|	|	|	5.24
5.417	6.98	0.07	0.769	o	I	|	|	|	5.42
5.500	8.35	0.10	0.821	o	I	|	|	|	5.63
5.583	5.97	0.13	0.869	o	I	|	|	|	5.83
5.667	2.59	0.15	0.898	o	I	|	|	|	5.95
5.750	1.37	0.15	0.911	o	I	|	|	|	6.00
5.833	0.80	0.16	0.917	o	I	|	|	|	6.02
5.917	0.55	0.16	0.920	o	I	|	|	|	6.03
6.000	0.36	0.16	0.923	o	I	|	|	|	6.04
6.083	0.16	0.16	0.923	o	|	|	|	|	6.04
6.167	0.03	0.16	0.923	o	|	|	|	|	6.04
6.250	0.01	0.16	0.922	o	|	|	|	|	6.04
6.333	0.00	0.16	0.921	o	|	|	|	|	6.03
6.417	0.00	0.16	0.920	o	|	|	|	|	6.03
6.500	0.00	0.16	0.919	o	|	|	|	|	6.03
6.583	0.00	0.16	0.918	o	|	|	|	|	6.02
6.667	0.00	0.16	0.916	o	|	|	|	|	6.02
6.750	0.00	0.16	0.915	o	|	|	|	|	6.02
6.833	0.00	0.16	0.914	o	|	|	|	|	6.01
6.917	0.00	0.15	0.913	o	|	|	|	|	6.01
7.000	0.00	0.15	0.912	o	|	|	|	|	6.00
7.083	0.00	0.15	0.911	o	|	|	|	|	6.00
7.167	0.00	0.15	0.910	o	|	|	|	|	6.00
7.250	0.00	0.15	0.909	o	|	|	|	|	5.99
7.333	0.00	0.15	0.908	o	|	|	|	|	5.99
7.417	0.00	0.15	0.907	o	|	|	|	|	5.98
7.500	0.00	0.15	0.906	o	|	|	|	|	5.98
7.583	0.00	0.15	0.905	o	|	|	|	|	5.98
7.667	0.00	0.15	0.904	o	|	|	|	|	5.97
7.750	0.00	0.15	0.903	o	|	|	|	|	5.97
7.833	0.00	0.15	0.902	o	|	|	|	|	5.96
7.917	0.00	0.15	0.901	o	|	|	|	|	5.96
8.000	0.00	0.15	0.900	o	|	|	|	|	5.95
8.083	0.00	0.15	0.899	o	|	|	|	|	5.95
8.167	0.00	0.15	0.898	o	|	|	|	|	5.95
8.250	0.00	0.15	0.897	o	|	|	|	|	5.94
8.333	0.00	0.14	0.896	o	|	|	|	|	5.94
8.417	0.00	0.14	0.895	o	|	|	|	|	5.93
8.500	0.00	0.14	0.894	o	|	|	|	|	5.93
8.583	0.00	0.14	0.893	o	|	|	|	|	5.93
8.667	0.00	0.14	0.892	o	|	|	|	|	5.92
8.750	0.00	0.14	0.891	o	|	|	|	|	5.92

8.833	0.00	0.14	0.890	o				5.91
8.917	0.00	0.14	0.889	o				5.91
9.000	0.00	0.14	0.888	o				5.91
9.083	0.00	0.14	0.887	o				5.90
9.167	0.00	0.14	0.886	o				5.90
9.250	0.00	0.14	0.885	o				5.89
9.333	0.00	0.14	0.884	o				5.89
9.417	0.00	0.14	0.883	o				5.89
9.500	0.00	0.14	0.882	o				5.88
9.583	0.00	0.14	0.881	o				5.88
9.667	0.00	0.14	0.880	o				5.88
9.750	0.00	0.14	0.879	o				5.87
9.833	0.00	0.13	0.878	o				5.87
9.917	0.00	0.13	0.877	o				5.86
10.000	0.00	0.13	0.877	o				5.86
10.083	0.00	0.13	0.876	o				5.86
10.167	0.00	0.13	0.875	o				5.85
10.250	0.00	0.13	0.874	o				5.85
10.333	0.00	0.13	0.873	o				5.85
10.417	0.00	0.13	0.872	o				5.84
10.500	0.00	0.13	0.871	o				5.84
10.583	0.00	0.13	0.870	o				5.83
10.667	0.00	0.13	0.869	o				5.83
10.750	0.00	0.13	0.868	o				5.83
10.833	0.00	0.13	0.868	o				5.82
10.917	0.00	0.13	0.867	o				5.82
11.000	0.00	0.13	0.866	o				5.82
11.083	0.00	0.13	0.865	o				5.81
11.167	0.00	0.13	0.864	o				5.81
11.250	0.00	0.13	0.863	o				5.81
11.333	0.00	0.12	0.862	o				5.80
11.417	0.00	0.12	0.861	o				5.80
11.500	0.00	0.12	0.861	o				5.80
11.583	0.00	0.12	0.860	o				5.79
11.667	0.00	0.12	0.859	o				5.79
11.750	0.00	0.12	0.858	o				5.79
11.833	0.00	0.12	0.857	o				5.78
11.917	0.00	0.12	0.856	o				5.78
12.000	0.00	0.12	0.856	o				5.78
12.083	0.00	0.12	0.855	o				5.77
12.167	0.00	0.12	0.854	o				5.77
12.250	0.00	0.12	0.853	o				5.77
12.333	0.00	0.12	0.852	o				5.76
12.417	0.00	0.12	0.851	o				5.76
12.500	0.00	0.12	0.851	o				5.76
12.583	0.00	0.12	0.850	o				5.75
12.667	0.00	0.12	0.849	o				5.75
12.750	0.00	0.12	0.848	o				5.75
12.833	0.00	0.12	0.847	o				5.74
12.917	0.00	0.12	0.847	o				5.74
13.000	0.00	0.11	0.846	o				5.74
13.083	0.00	0.11	0.845	o				5.73
13.167	0.00	0.11	0.844	o				5.73
13.250	0.00	0.11	0.843	o				5.73
13.333	0.00	0.11	0.843	o				5.72
13.417	0.00	0.11	0.842	o				5.72
13.500	0.00	0.11	0.841	o				5.72
13.583	0.00	0.11	0.840	o				5.71
13.667	0.00	0.11	0.840	o				5.71
13.750	0.00	0.11	0.839	o				5.71
13.833	0.00	0.11	0.838	o				5.70
13.917	0.00	0.11	0.837	o				5.70
14.000	0.00	0.11	0.837	o				5.70
14.083	0.00	0.11	0.836	o				5.70
14.167	0.00	0.11	0.835	o				5.69
14.250	0.00	0.11	0.834	o				5.69
14.333	0.00	0.11	0.834	o				5.69
14.417	0.00	0.11	0.833	o				5.68
14.500	0.00	0.11	0.832	o				5.68
14.583	0.00	0.11	0.831	o				5.68
14.667	0.00	0.11	0.831	o				5.67
14.750	0.00	0.11	0.830	o				5.67
14.833	0.00	0.10	0.829	o				5.67
14.917	0.00	0.10	0.828	o				5.67
15.000	0.00	0.10	0.828	o				5.66
15.083	0.00	0.10	0.827	o				5.66
15.167	0.00	0.10	0.826	o				5.66
15.250	0.00	0.10	0.826	o				5.65
15.333	0.00	0.10	0.825	o				5.65
15.417	0.00	0.10	0.824	o				5.65
15.500	0.00	0.10	0.823	o				5.65
15.583	0.00	0.10	0.823	o				5.64
15.667	0.00	0.10	0.822	o				5.64
15.750	0.00	0.10	0.821	o				5.64
15.833	0.00	0.10	0.821	o				5.63

```
Remaining water in basin =    0.82 (Ac.Ft)


**************************HYDROGRAPH DATA**************************
               Number of intervals =   190
               Time interval =    5.0 (Min.)
               Maximum/Peak flow rate =        0.159 (CFS)
               Total volume =       0.113 (Ac.Ft)
       Status of hydrographs being held in storage
                  Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
       Peak (CFS)      0.000     0.000     0.000     0.000     0.000
       Vol (Ac.Ft)     0.000     0.000     0.000     0.000     0.000
*******************************************************************

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                    FLOOD HYDROGRAPH ROUTING PROGRAM
              Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2004
                          Study date: 03/02/22

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Program License Serial Number 5006

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******************** HYDROGRAPH INFORMATION **********************

               From study/file name: pro1102410.rte
*****************************HYDROGRAPH DATA*****************************
               Number of intervals =   291
               Time interval =    5.0 (Min.)
               Maximum/Peak flow rate =        2.443 (CFS)
               Total volume =       1.484 (Ac.Ft)
       Status of hydrographs being held in storage
                  Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
       Peak (CFS)      0.000     0.000     0.000     0.000     0.000
       Vol (Ac.Ft)     0.000     0.000     0.000     0.000     0.000
************************************************************************



++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        1.000 to Point/Station        2.000
**** RETARDING BASIN ROUTING ****
________________________________________________________________________

User entry of depth-outflow-storage data
------------------------------------------------------------------------
Total number of inflow hydrograph intervals = 291
Hydrograph time unit =  5.000 (Min.)
Initial depth in storage basin =   0.00(Ft.)
------------------------------------------------------------------------
------------------------------------------------------------------------
Initial basin depth =   0.00 (Ft.)
Initial basin storage =      0.00 (Ac.Ft)
Initial basin outflow =   0.00 (CFS)
------------------------------------------------------------------------
------------------------------------------------------------------------
Depth vs. Storage and Depth vs. Discharge data:
 Basin Depth  Storage    Outflow   (S-O*dt/2)   (S+O*dt/2)
     (Ft.)    (Ac.Ft)    (CFS)     (Ac.Ft)    (Ac.Ft)
------------------------------------------------------------------------
   0.000      0.000      0.000      0.000        0.000
   1.000      0.063      0.001      0.063        0.063
   2.000      0.125      0.002      0.125        0.125
   3.000      0.293      0.003      0.293        0.293
   4.000      0.459      0.005      0.459        0.459
   5.000      0.664      0.006      0.664        0.664
   6.000      0.911      0.154      0.910        0.912
   7.000      1.202      0.268      1.201        1.203
   7.850      1.487      0.678      1.485        1.489
   8.200      1.796     22.862      1.717        1.875
------------------------------------------------------------------------
               Hydrograph Detention Basin Routing
------------------------------------------------------------------------

Graph values: 'I'= unit inflow; 'O'=outflow at time shown
------------------------------------------------------------------------
 Time   Inflow  Outflow    Storage                                    Depth
(Hours) (CFS)   (CFS)     (Ac.Ft) .0       0.6    1.22    1.83    2.44 (Ft.)
 0.083    0.07    0.00      0.000  O       |       |       |       |     0.00
 0.167    0.13    0.00      0.001  OI      |       |       |       |     0.01
 0.250    0.14    0.00      0.002  OI      |       |       |       |     0.03
 0.333    0.18    0.00      0.003  O I     |       |       |       |     0.05
 0.417    0.21    0.00      0.004  O I     |       |       |       |     0.07
 0.500    0.21    0.00      0.006  O I     |       |       |       |     0.09
 0.583    0.22    0.00      0.007  O I     |       |       |       |     0.11
 0.667    0.22    0.00      0.009  O I     |       |       |       |     0.14
 0.750    0.22    0.00      0.010  O I     |       |       |       |     0.16
 0.833    0.25    0.00      0.012  O  I    |       |       |       |     0.19
 0.917    0.28    0.00      0.014  O  I    |       |       |       |     0.21
 1.000    0.28    0.00      0.015  O  I    |       |       |       |     0.25
 1.083    0.25    0.00      0.017  O  I    |       |       |       |     0.27
 1.167    0.22    0.00      0.019  O I     |       |       |       |     0.30
 1.250    0.22    0.00      0.020  O I     |       |       |       |     0.33
 1.333    0.22    0.00      0.022  O I     |       |       |       |     0.35
 1.417    0.22    0.00      0.023  O I     |       |       |       |     0.37
 1.500    0.22    0.00      0.025  O I     |       |       |       |     0.40
```

1.583	0.22	0.00	0.026	o I	|	|	|	0.42
1.667	0.22	0.00	0.028	o I	|	|	|	0.44
1.750	0.22	0.00	0.029	o I	|	|	|	0.47
1.833	0.25	0.00	0.031	o I	|	|	|	0.49
1.917	0.28	0.00	0.033	o I	|	|	|	0.52
2.000	0.28	0.00	0.035	o I	|	|	|	0.55
2.083	0.29	0.00	0.037	o I	|	|	|	0.58
2.167	0.29	0.00	0.039	o I	|	|	|	0.61
2.250	0.29	0.00	0.041	o I	|	|	|	0.65
2.333	0.29	0.00	0.043	o I	|	|	|	0.68
2.417	0.29	0.00	0.045	o I	|	|	|	0.71
2.500	0.29	0.00	0.047	o I	|	|	|	0.74
2.583	0.32	0.00	0.049	o I	|	|	|	0.77
2.667	0.35	0.00	0.051	o I	|	|	|	0.81
2.750	0.36	0.00	0.053	o I	|	|	|	0.85
2.833	0.36	0.00	0.056	o I	|	|	|	0.89
2.917	0.36	0.00	0.058	o I	|	|	|	0.93
3.000	0.36	0.00	0.061	o I	|	|	|	0.96
3.083	0.36	0.00	0.063	o I	|	|	|	1.00
3.167	0.36	0.00	0.066	o I	|	|	|	1.04
3.250	0.36	0.00	0.068	o I	|	|	|	1.08
3.333	0.36	0.00	0.071	o I	|	|	|	1.12
3.417	0.36	0.00	0.073	o I	|	|	|	1.16
3.500	0.36	0.00	0.076	o I	|	|	|	1.20
3.583	0.36	0.00	0.078	o I	|	|	|	1.24
3.667	0.36	0.00	0.081	o I	|	|	|	1.28
3.750	0.36	0.00	0.083	o I	|	|	|	1.32
3.833	0.39	0.00	0.086	o I	|	|	|	1.36
3.917	0.42	0.00	0.088	o I	|	|	|	1.41
4.000	0.43	0.00	0.091	o I	|	|	|	1.46
4.083	0.43	0.00	0.094	o I	|	|	|	1.50
4.167	0.43	0.00	0.097	o I	|	|	|	1.55
4.250	0.43	0.00	0.100	o I	|	|	|	1.60
4.333	0.46	0.00	0.103	o I	|	|	|	1.65
4.417	0.49	0.00	0.107	o I	|	|	|	1.70
4.500	0.50	0.00	0.110	o I	|	|	|	1.76
4.583	0.50	0.00	0.113	o I	|	|	|	1.81
4.667	0.50	0.00	0.117	o I	|	|	|	1.87
4.750	0.50	0.00	0.120	o I	|	|	|	1.92
4.833	0.54	0.00	0.124	o I	|	|	|	1.98
4.917	0.57	0.00	0.128	o I	|	|	|	2.02
5.000	0.57	0.00	0.132	o I	|	|	|	2.04
5.083	0.51	0.00	0.135	o I	|	|	|	2.06
5.167	0.45	0.00	0.139	o I	|	|	|	2.08
5.250	0.44	0.00	0.142	o I	|	|	|	2.10
5.333	0.46	0.00	0.145	o I	|	|	|	2.12
5.417	0.49	0.00	0.148	o I	|	|	|	2.14
5.500	0.50	0.00	0.151	o I	|	|	|	2.16
5.583	0.54	0.00	0.155	o I	|	|	|	2.18
5.667	0.57	0.00	0.159	o I	|	|	|	2.20
5.750	0.57	0.00	0.163	o I	|	|	|	2.22
5.833	0.57	0.00	0.166	o I	|	|	|	2.25
5.917	0.57	0.00	0.170	o I	|	|	|	2.27
6.000	0.57	0.00	0.174	o I	|	|	|	2.29
6.083	0.61	0.00	0.178	o I	|	|	|	2.32
6.167	0.64	0.00	0.183	o I	|	|	|	2.34
6.250	0.64	0.00	0.187	o I	|	|	|	2.37
6.333	0.65	0.00	0.192	o I	|	|	|	2.40
6.417	0.65	0.00	0.196	o I	|	|	|	2.42
6.500	0.65	0.00	0.200	o I	|	|	|	2.45
6.583	0.68	0.00	0.205	o I	|	|	|	2.48
6.667	0.71	0.00	0.210	o I	|	|	|	2.50
6.750	0.72	0.00	0.215	o I	|	|	|	2.53
6.833	0.72	0.00	0.220	o I	|	|	|	2.56
6.917	0.72	0.00	0.224	o I	|	|	|	2.59
7.000	0.72	0.00	0.229	o I	|	|	|	2.62
7.083	0.72	0.00	0.234	o I	|	|	|	2.65
7.167	0.72	0.00	0.239	o I	|	|	|	2.68
7.250	0.72	0.00	0.244	o I	|	|	|	2.71
7.333	0.75	0.00	0.249	o I	|	|	|	2.74
7.417	0.78	0.00	0.255	o I	|	|	|	2.77
7.500	0.79	0.00	0.260	o I	|	|	|	2.80
7.583	0.82	0.00	0.265	o I	|	|	|	2.84
7.667	0.85	0.00	0.271	o I	|	|	|	2.87
7.750	0.86	0.00	0.277	o I	|	|	|	2.91
7.833	0.90	0.00	0.283	o I	|	|	|	2.94
7.917	0.93	0.00	0.289	o I	|	|	|	2.98
8.000	0.93	0.00	0.296	o I	|	|	|	3.02
8.083	1.00	0.00	0.302	o I	|	|	|	3.06
8.167	1.06	0.00	0.309	o I	|	|	|	3.10
8.250	1.07	0.00	0.317	o I	|	|	|	3.14
8.333	1.08	0.00	0.324	o I	|	|	|	3.19
8.417	1.08	0.00	0.332	o I	|	|	|	3.23
8.500	1.08	0.00	0.339	o I	|	|	|	3.28
8.583	1.11	0.00	0.346	o I	|	|	|	3.32
8.667	1.14	0.00	0.354	o I	|	|	|	3.37
8.750	1.15	0.00	0.362	o I	|	|	|	3.42

8.833	1.18	0.00	0.370	o	|	I|	|	3.46
8.917	1.21	0.00	0.378	o	|	I|	|	3.51
9.000	1.22	0.00	0.387	o	|	I|	|	3.56
9.083	1.29	0.00	0.395	o	|	I	|	3.62
9.167	1.35	0.00	0.404	o	|	|I	|	3.67
9.250	1.36	0.00	0.414	o	|	|I	|	3.73
9.333	1.40	0.00	0.423	o	|	| I	|	3.78
9.417	1.43	0.00	0.433	o	|	| I	|	3.84
9.500	1.43	0.00	0.443	o	|	| I	|	3.90
9.583	1.47	0.00	0.452	o	|	| I	|	3.96
9.667	1.50	0.01	0.463	o	|	| I	|	4.02
9.750	1.51	0.01	0.473	o	|	| I	|	4.07
9.833	1.54	0.01	0.483	o	|	| I	|	4.12
9.917	1.57	0.01	0.494	o	|	| I	|	4.17
10.000	1.58	0.01	0.505	o	|	| I	|	4.22
10.083	1.35	0.01	0.515	o	|	|I	|	4.27
10.167	1.14	0.01	0.524	o	| I	|	|	4.31
10.250	1.09	0.01	0.531	o	| I	|	|	4.35
10.333	1.08	0.01	0.539	o	| I	|	|	4.39
10.417	1.08	0.01	0.546	o	| I	|	|	4.42
10.500	1.08	0.01	0.553	o	| I	|	|	4.46
10.583	1.24	0.01	0.561	o	|	I	|	4.50
10.667	1.40	0.01	0.570	o	|	| I	|	4.54
10.750	1.42	0.01	0.580	o	|	| I	|	4.59
10.833	1.44	0.01	0.590	o	|	| I	|	4.64
10.917	1.44	0.01	0.600	o	|	| I	|	4.69
11.000	1.44	0.01	0.610	o	|	| I	|	4.73
11.083	1.40	0.01	0.619	o	|	| I	|	4.78
11.167	1.37	0.01	0.629	o	|	|I	|	4.83
11.250	1.37	0.01	0.638	o	|	|I	|	4.87
11.333	1.36	0.01	0.648	o	|	|I	|	4.92
11.417	1.36	0.01	0.657	o	|	|I	|	4.97
11.500	1.36	0.01	0.666	o	|	|I	|	5.01
11.583	1.30	0.01	0.675	o	|	|I	|	5.05
11.667	1.24	0.02	0.684	o	|	I	|	5.08
11.750	1.23	0.02	0.692	o	|	I	|	5.11
11.833	1.25	0.03	0.701	o	|	I	|	5.15
11.917	1.28	0.03	0.709	o	|	I	|	5.18
12.000	1.29	0.04	0.718	o	|	I	|	5.22
12.083	1.53	0.04	0.727	o	|	| I	|	5.26
12.167	1.74	0.05	0.738	o	|	| I	|	5.30
12.250	1.78	0.06	0.750	o	|	| I|	|	5.35
12.333	1.83	0.06	0.762	o	|	| I|	|	5.40
12.417	1.86	0.07	0.774	o	|	| I	|	5.45
12.500	1.87	0.08	0.787	|o	|	| I	|	5.50
12.583	1.93	0.09	0.799	|o	|	| |I	|	5.55
12.667	2.00	0.09	0.812	|o	|	| | I	|	5.60
12.750	2.01	0.10	0.825	|o	|	| | I	|	5.65
12.833	2.04	0.11	0.838	|o	|	| | I	|	5.71
12.917	2.08	0.12	0.852	|o	|	| | I	|	5.76
13.000	2.08	0.13	0.865	|o	|	| | I	|	5.81
13.083	2.25	0.13	0.879	|o	|	| | I	|	5.87
13.167	2.40	0.14	0.894	|o	|	| | I|	|	5.93
13.250	2.43	0.15	0.910	| o	|	| | I|	|	6.00
13.333	2.44	0.16	0.926	| o	|	| | I	|	6.05
13.417	2.44	0.17	0.941	| o	|	| | I	|	6.10
13.500	2.44	0.17	0.957	| o	|	| | I	|	6.16
13.583	2.08	0.18	0.971	| o	|	| | I	|	6.21
13.667	1.74	0.18	0.983	| o	|	| I	|	6.25
13.750	1.68	0.19	0.994	| o	|	| I	|	6.28
13.833	1.65	0.19	1.004	| o	|	| I	|	6.32
13.917	1.65	0.19	1.014	| o	|	| I	|	6.35
14.000	1.65	0.20	1.024	| o	|	| I	|	6.39
14.083	1.79	0.20	1.034	| o	|	| I|	|	6.42
14.167	1.91	0.21	1.046	| o	|	| I	|	6.46
14.250	1.93	0.21	1.057	| o	|	| |I	|	6.50
14.333	1.91	0.22	1.069	| o	|	| I	|	6.54
14.417	1.88	0.22	1.081	| o	|	| I	|	6.58
14.500	1.87	0.22	1.092	| o	|	| I	|	6.62
14.583	1.87	0.23	1.103	| o	|	| I	|	6.66
14.667	1.87	0.23	1.115	| o	|	| I	|	6.70
14.750	1.87	0.24	1.126	| o	|	| I	|	6.74
14.833	1.83	0.24	1.137	| o	|	| I	|	6.78
14.917	1.80	0.25	1.148	| o	|	| I|	|	6.81
15.000	1.80	0.25	1.159	| o	|	| I|	|	6.85
15.083	1.76	0.26	1.169	| o	|	| I|	|	6.89
15.167	1.73	0.26	1.179	| o	|	| I	|	6.92
15.250	1.73	0.26	1.189	| o	|	| I	|	6.96
15.333	1.69	0.27	1.199	| o	|	| I	|	6.99
15.417	1.66	0.28	1.209	| o	|	| I	|	7.02
15.500	1.65	0.29	1.219	| o	|	| I	|	7.05
15.583	1.52	0.30	1.227	| o	|	| I	|	7.08
15.667	1.40	0.32	1.235	| o	|	| I	|	7.10
15.750	1.37	0.33	1.243	| o	|	| I	|	7.12
15.833	1.36	0.34	1.250	| o	|	|I	|	7.14
15.917	1.36	0.35	1.257	| o	|	|I	|	7.16
16.000	1.36	0.36	1.264	| o	|	|I	|	7.18

16.083	0.87	0.36	1.269	O	I			7.20
16.167	0.41	0.37	1.271	OI				7.21
16.250	0.32	0.37	1.271	O				7.21
16.333	0.29	0.37	1.270	IO				7.20
16.417	0.29	0.37	1.270	IO				7.20
16.500	0.29	0.36	1.269	IO				7.20
16.583	0.25	0.36	1.269	IO				7.20
16.667	0.22	0.36	1.268	I O				7.20
16.750	0.22	0.36	1.267	I O				7.19
16.833	0.22	0.36	1.266	I O				7.19
16.917	0.22	0.36	1.265	I O				7.19
17.000	0.22	0.36	1.264	I O				7.18
17.083	0.28	0.36	1.263	IO				7.18
17.167	0.34	0.36	1.263	O				7.18
17.250	0.35	0.36	1.263	O				7.18
17.333	0.36	0.36	1.263	O				7.18
17.417	0.36	0.36	1.263	O				7.18
17.500	0.36	0.36	1.263	O				7.18
17.583	0.36	0.36	1.263	O				7.18
17.667	0.36	0.36	1.263	O				7.18
17.750	0.36	0.36	1.263	O				7.18
17.833	0.33	0.36	1.263	O				7.18
17.917	0.30	0.36	1.263	IO				7.18
18.000	0.29	0.35	1.262	IO				7.18
18.083	0.29	0.35	1.262	IO				7.18
18.167	0.29	0.35	1.261	IO				7.18
18.250	0.29	0.35	1.261	IO				7.18
18.333	0.29	0.35	1.260	IO				7.17
18.417	0.29	0.35	1.260	IO				7.17
18.500	0.29	0.35	1.259	IO				7.17
18.583	0.25	0.35	1.259	IO				7.17
18.667	0.22	0.35	1.258	I O				7.17
18.750	0.22	0.35	1.257	I O				7.16
18.833	0.18	0.35	1.256	I O				7.16
18.917	0.15	0.34	1.255	I O				7.16
19.000	0.15	0.34	1.254	I O				7.15
19.083	0.18	0.34	1.252	I O				7.15
19.167	0.21	0.34	1.251	I O				7.15
19.250	0.21	0.34	1.251	I O				7.14
19.333	0.25	0.34	1.250	IO				7.14
19.417	0.28	0.34	1.249	IO				7.14
19.500	0.28	0.34	1.249	IO				7.14
19.583	0.25	0.33	1.249	IO				7.14
19.667	0.22	0.33	1.248	I O				7.14
19.750	0.22	0.33	1.247	I O				7.13
19.833	0.18	0.33	1.246	I O				7.13
19.917	0.15	0.33	1.245	I O				7.13
20.000	0.15	0.33	1.244	I O				7.12
20.083	0.18	0.33	1.243	I O				7.12
20.167	0.21	0.33	1.242	I O				7.12
20.250	0.21	0.32	1.241	I O				7.12
20.333	0.22	0.32	1.240	I O				7.11
20.417	0.22	0.32	1.239	I O				7.11
20.500	0.22	0.32	1.239	I O				7.11
20.583	0.22	0.32	1.238	I O				7.11
20.667	0.22	0.32	1.237	I O				7.11
20.750	0.22	0.32	1.237	I O				7.10
20.833	0.18	0.32	1.236	I O				7.10
20.917	0.15	0.32	1.235	I O				7.10
21.000	0.15	0.31	1.234	I O				7.09
21.083	0.18	0.31	1.233	I O				7.09
21.167	0.21	0.31	1.232	I O				7.09
21.250	0.21	0.31	1.231	I O				7.09
21.333	0.18	0.31	1.230	I O				7.08
21.417	0.15	0.31	1.229	I O				7.08
21.500	0.15	0.31	1.228	I O				7.08
21.583	0.18	0.30	1.227	IO				7.08
21.667	0.21	0.30	1.226	IO				7.07
21.750	0.21	0.30	1.226	IO				7.07
21.833	0.18	0.30	1.225	IO				7.07
21.917	0.15	0.30	1.224	I O				7.07
22.000	0.15	0.30	1.223	I O				7.06
22.083	0.18	0.30	1.222	IO				7.06
22.167	0.21	0.30	1.222	IO				7.06
22.250	0.21	0.30	1.221	IO				7.06
22.333	0.18	0.29	1.220	IO				7.05
22.417	0.15	0.29	1.219	I O				7.05
22.500	0.15	0.29	1.218	I O				7.05
22.583	0.14	0.29	1.217	I O				7.05
22.667	0.14	0.29	1.216	I O				7.04
22.750	0.14	0.29	1.215	I O				7.04
22.833	0.14	0.29	1.214	I O				7.04
22.917	0.14	0.28	1.213	I O				7.03
23.000	0.14	0.28	1.212	I O				7.03
23.083	0.14	0.28	1.212	I O				7.03
23.167	0.14	0.28	1.211	I O				7.03
23.250	0.14	0.28	1.210	I O				7.02

23.333	0.14	0.28	1.209	I O				7.02
23.417	0.14	0.28	1.208	I O				7.02
23.500	0.14	0.28	1.207	I O				7.01
23.583	0.14	0.27	1.206	I O				7.01
23.667	0.14	0.27	1.205	I O				7.01
23.750	0.14	0.27	1.204	I O				7.01
23.833	0.14	0.27	1.203	I O				7.00
23.917	0.14	0.27	1.202	I O				7.00
24.000	0.14	0.27	1.202	I O				7.00
24.083	0.08	0.27	1.201	I O				6.99
24.167	0.02	0.27	1.199	I O				6.99
24.250	0.00	0.27	1.197	I O				6.98
24.333	0.00	0.27	1.195	I O				6.98
24.417	0.00	0.26	1.194	I O				6.97
24.500	0.00	0.26	1.192	I O				6.96
24.583	0.00	0.26	1.190	I O				6.96
24.667	0.00	0.26	1.188	I O				6.95
24.750	0.00	0.26	1.186	I O				6.95
24.833	0.00	0.26	1.185	I O				6.94
24.917	0.00	0.26	1.183	I O				6.93
25.000	0.00	0.26	1.181	I O				6.93
25.083	0.00	0.26	1.179	I O				6.92
25.167	0.00	0.26	1.177	I O				6.92
25.250	0.00	0.26	1.176	I O				6.91
25.333	0.00	0.26	1.174	I O				6.90
25.417	0.00	0.26	1.172	I O				6.90
25.500	0.00	0.26	1.170	I O				6.89
25.583	0.00	0.25	1.169	I O				6.89
25.667	0.00	0.25	1.167	I O				6.88
25.750	0.00	0.25	1.165	I O				6.87
25.833	0.00	0.25	1.163	I O				6.87
25.917	0.00	0.25	1.162	I O				6.86
26.000	0.00	0.25	1.160	I O				6.86
26.083	0.00	0.25	1.158	I O				6.85
26.167	0.00	0.25	1.156	I O				6.84
26.250	0.00	0.25	1.155	I O				6.84
26.333	0.00	0.25	1.153	I O				6.83
26.417	0.00	0.25	1.151	I O				6.83
26.500	0.00	0.25	1.150	I O				6.82
26.583	0.00	0.25	1.148	I O				6.81
26.667	0.00	0.25	1.146	I O				6.81
26.750	0.00	0.25	1.144	I O				6.80
26.833	0.00	0.24	1.143	I O				6.80
26.917	0.00	0.24	1.141	I O				6.79
27.000	0.00	0.24	1.139	I O				6.78
27.083	0.00	0.24	1.138	I O				6.78
27.167	0.00	0.24	1.136	I O				6.77
27.250	0.00	0.24	1.134	I O				6.77
27.333	0.00	0.24	1.133	I O				6.76
27.417	0.00	0.24	1.131	I O				6.76
27.500	0.00	0.24	1.129	I O				6.75
27.583	0.00	0.24	1.128	I O				6.74
27.667	0.00	0.24	1.126	I O				6.74
27.750	0.00	0.24	1.124	I O				6.73
27.833	0.00	0.24	1.123	I O				6.73
27.917	0.00	0.24	1.121	I O				6.72
28.000	0.00	0.24	1.120	I O				6.72
28.083	0.00	0.24	1.118	I O				6.71
28.167	0.00	0.23	1.116	I O				6.71
28.250	0.00	0.23	1.115	I O				6.70
28.333	0.00	0.23	1.113	I O				6.69
28.417	0.00	0.23	1.112	I O				6.69
28.500	0.00	0.23	1.110	I O				6.68
28.583	0.00	0.23	1.108	I O				6.68
28.667	0.00	0.23	1.107	I O				6.67
28.750	0.00	0.23	1.105	I O				6.67
28.833	0.00	0.23	1.104	I O				6.66
28.917	0.00	0.23	1.102	I O				6.66
29.000	0.00	0.23	1.100	I O				6.65
29.083	0.00	0.23	1.099	I O				6.65
29.167	0.00	0.23	1.097	I O				6.64
29.250	0.00	0.23	1.096	I O				6.63
29.333	0.00	0.23	1.094	I O				6.63
29.417	0.00	0.23	1.093	I O				6.62
29.500	0.00	0.22	1.091	I O				6.62
29.583	0.00	0.22	1.090	I O				6.61
29.667	0.00	0.22	1.088	I O				6.61
29.750	0.00	0.22	1.086	I O				6.60
29.833	0.00	0.22	1.085	I O				6.60
29.917	0.00	0.22	1.083	I O				6.59
30.000	0.00	0.22	1.082	I O				6.59
30.083	0.00	0.22	1.080	I O				6.58
30.167	0.00	0.22	1.079	I O				6.58
30.250	0.00	0.22	1.077	I O				6.57
30.333	0.00	0.22	1.076	I O				6.57
30.417	0.00	0.22	1.074	I O				6.56
30.500	0.00	0.22	1.073	I O				6.56

30.583	0.00	0.22	1.071	I o	|	|	|	6.55
30.667	0.00	0.22	1.070	I o	|	|	|	6.55
30.750	0.00	0.22	1.068	I o	|	|	|	6.54
30.833	0.00	0.22	1.067	I o	|	|	|	6.54
30.917	0.00	0.21	1.065	I o	|	|	|	6.53
31.000	0.00	0.21	1.064	I o	|	|	|	6.53
31.083	0.00	0.21	1.062	I o	|	|	|	6.52
31.167	0.00	0.21	1.061	I o	|	|	|	6.52
31.250	0.00	0.21	1.060	I o	|	|	|	6.51
31.333	0.00	0.21	1.058	I o	|	|	|	6.51
31.417	0.00	0.21	1.057	I o	|	|	|	6.50
31.500	0.00	0.21	1.055	I o	|	|	|	6.50
31.583	0.00	0.21	1.054	I o	|	|	|	6.49
31.667	0.00	0.21	1.052	I o	|	|	|	6.49
31.750	0.00	0.21	1.051	I o	|	|	|	6.48
31.833	0.00	0.21	1.049	I o	|	|	|	6.48
31.917	0.00	0.21	1.048	I o	|	|	|	6.47
32.000	0.00	0.21	1.047	I o	|	|	|	6.47
32.083	0.00	0.21	1.045	I o	|	|	|	6.46
32.167	0.00	0.21	1.044	I o	|	|	|	6.46
32.250	0.00	0.21	1.042	I o	|	|	|	6.45
32.333	0.00	0.20	1.041	I o	|	|	|	6.45
32.417	0.00	0.20	1.039	I o	|	|	|	6.44
32.500	0.00	0.20	1.038	I o	|	|	|	6.44
32.583	0.00	0.20	1.037	I o	|	|	|	6.43
32.667	0.00	0.20	1.035	I o	|	|	|	6.43
32.750	0.00	0.20	1.034	I o	|	|	|	6.42
32.833	0.00	0.20	1.032	I o	|	|	|	6.42
32.917	0.00	0.20	1.031	I o	|	|	|	6.41
33.000	0.00	0.20	1.030	I o	|	|	|	6.41
33.083	0.00	0.20	1.028	I o	|	|	|	6.40
33.167	0.00	0.20	1.027	I o	|	|	|	6.40
33.250	0.00	0.20	1.026	I o	|	|	|	6.39
33.333	0.00	0.20	1.024	I o	|	|	|	6.39
33.417	0.00	0.20	1.023	I o	|	|	|	6.38
33.500	0.00	0.20	1.021	I o	|	|	|	6.38
33.583	0.00	0.20	1.020	I o	|	|	|	6.37
33.667	0.00	0.20	1.019	I o	|	|	|	6.37
33.750	0.00	0.20	1.017	I o	|	|	|	6.37
33.833	0.00	0.20	1.016	I o	|	|	|	6.36
33.917	0.00	0.19	1.015	I o	|	|	|	6.36
34.000	0.00	0.19	1.013	I o	|	|	|	6.35
34.083	0.00	0.19	1.012	I o	|	|	|	6.35
34.167	0.00	0.19	1.011	I o	|	|	|	6.34
34.250	0.00	0.19	1.009	I o	|	|	|	6.34
34.333	0.00	0.19	1.008	I o	|	|	|	6.33
34.417	0.00	0.19	1.007	I o	|	|	|	6.33
34.500	0.00	0.19	1.005	I o	|	|	|	6.32
34.583	0.00	0.19	1.004	I o	|	|	|	6.32
34.667	0.00	0.19	1.003	I o	|	|	|	6.32
34.750	0.00	0.19	1.001	I o	|	|	|	6.31
34.833	0.00	0.19	1.000	I o	|	|	|	6.31
34.917	0.00	0.19	0.999	I o	|	|	|	6.30
35.000	0.00	0.19	0.998	I o	|	|	|	6.30
35.083	0.00	0.19	0.996	I o	|	|	|	6.29
35.167	0.00	0.19	0.995	I o	|	|	|	6.29
35.250	0.00	0.19	0.994	I o	|	|	|	6.28
35.333	0.00	0.19	0.992	I o	|	|	|	6.28
35.417	0.00	0.19	0.991	I o	|	|	|	6.28
35.500	0.00	0.18	0.990	I o	|	|	|	6.27
35.583	0.00	0.18	0.989	I o	|	|	|	6.27
35.667	0.00	0.18	0.987	I o	|	|	|	6.26
35.750	0.00	0.18	0.986	I o	|	|	|	6.26
35.833	0.00	0.18	0.985	I o	|	|	|	6.25
35.917	0.00	0.18	0.984	I o	|	|	|	6.25
36.000	0.00	0.18	0.982	I o	|	|	|	6.25
36.083	0.00	0.18	0.981	I o	|	|	|	6.24
36.167	0.00	0.18	0.980	I o	|	|	|	6.24
36.250	0.00	0.18	0.979	I o	|	|	|	6.23
36.333	0.00	0.18	0.977	I o	|	|	|	6.23
36.417	0.00	0.18	0.976	I o	|	|	|	6.22
36.500	0.00	0.18	0.975	I o	|	|	|	6.22
36.583	0.00	0.18	0.974	I o	|	|	|	6.22
36.667	0.00	0.18	0.972	I o	|	|	|	6.21
36.750	0.00	0.18	0.971	I o	|	|	|	6.21
36.833	0.00	0.18	0.970	I o	|	|	|	6.20
36.917	0.00	0.18	0.969	I o	|	|	|	6.20
37.000	0.00	0.18	0.968	I o	|	|	|	6.19
37.083	0.00	0.18	0.966	I o	|	|	|	6.19
37.167	0.00	0.18	0.965	I o	|	|	|	6.19
37.250	0.00	0.17	0.964	I o	|	|	|	6.18
37.333	0.00	0.17	0.963	I o	|	|	|	6.18
37.417	0.00	0.17	0.961	I o	|	|	|	6.17
37.500	0.00	0.17	0.960	I o	|	|	|	6.17
37.583	0.00	0.17	0.959	I o	|	|	|	6.17
37.667	0.00	0.17	0.958	I o	|	|	|	6.16
37.750	0.00	0.17	0.957	I o	|	|	|	6.16

37.833	0.00	0.17	0.956	I O				6.15
37.917	0.00	0.17	0.954	I O				6.15
38.000	0.00	0.17	0.953	I O				6.14
38.083	0.00	0.17	0.952	I O				6.14
38.167	0.00	0.17	0.951	I O				6.14
38.250	0.00	0.17	0.950	I O				6.13
38.333	0.00	0.17	0.949	I O				6.13
38.417	0.00	0.17	0.947	I O				6.12
38.500	0.00	0.17	0.946	I O				6.12
38.583	0.00	0.17	0.945	I O				6.12
38.667	0.00	0.17	0.944	I O				6.11
38.750	0.00	0.17	0.943	I O				6.11
38.833	0.00	0.17	0.942	I O				6.11
38.917	0.00	0.17	0.940	I O				6.10
39.000	0.00	0.17	0.939	I O				6.10
39.083	0.00	0.16	0.938	I O				6.09
39.167	0.00	0.16	0.937	I O				6.09
39.250	0.00	0.16	0.936	I O				6.09
39.333	0.00	0.16	0.935	I O				6.08
39.417	0.00	0.16	0.934	I O				6.08
39.500	0.00	0.16	0.933	I O				6.07
39.583	0.00	0.16	0.931	I O				6.07
39.667	0.00	0.16	0.930	I O				6.07
39.750	0.00	0.16	0.929	I O				6.06
39.833	0.00	0.16	0.928	I O				6.06
39.917	0.00	0.16	0.927	I O				6.05
40.000	0.00	0.16	0.926	I O				6.05
40.083	0.00	0.16	0.925	I O				6.05
40.167	0.00	0.16	0.924	I O				6.04
40.250	0.00	0.16	0.923	I O				6.04
40.333	0.00	0.16	0.922	I O				6.04
40.417	0.00	0.16	0.920	I O				6.03
40.500	0.00	0.16	0.919	I O				6.03
40.583	0.00	0.16	0.918	I O				6.02
40.667	0.00	0.16	0.917	I O				6.02
40.750	0.00	0.16	0.916	I O				6.02
40.833	0.00	0.16	0.915	I O				6.01
40.917	0.00	0.16	0.914	I O				6.01
41.000	0.00	0.15	0.913	I O				6.01
41.083	0.00	0.15	0.912	I O				6.00
41.167	0.00	0.15	0.911	I O				6.00
41.250	0.00	0.15	0.910	I O				5.99
41.333	0.00	0.15	0.909	IO				5.99
41.417	0.00	0.15	0.908	IO				5.99
41.500	0.00	0.15	0.907	IO				5.98
41.583	0.00	0.15	0.906	IO				5.98
41.667	0.00	0.15	0.904	IO				5.97
41.750	0.00	0.15	0.903	IO				5.97
41.833	0.00	0.15	0.902	IO				5.97
41.917	0.00	0.15	0.901	IO				5.96
42.000	0.00	0.15	0.900	IO				5.96
42.083	0.00	0.15	0.899	IO				5.95
42.167	0.00	0.15	0.898	IO				5.95
42.250	0.00	0.15	0.897	IO				5.94
42.333	0.00	0.15	0.896	IO				5.94
42.417	0.00	0.14	0.895	IO				5.94
42.500	0.00	0.14	0.894	IO				5.93
42.583	0.00	0.14	0.893	IO				5.93
42.667	0.00	0.14	0.892	IO				5.92
42.750	0.00	0.14	0.891	IO				5.92
42.833	0.00	0.14	0.890	IO				5.92
42.917	0.00	0.14	0.889	IO				5.91
43.000	0.00	0.14	0.888	IO				5.91
43.083	0.00	0.14	0.888	IO				5.90
43.167	0.00	0.14	0.887	IO				5.90
43.250	0.00	0.14	0.886	IO				5.90
43.333	0.00	0.14	0.885	IO				5.89
43.417	0.00	0.14	0.884	IO				5.89
43.500	0.00	0.14	0.883	IO				5.89
43.583	0.00	0.14	0.882	IO				5.88
43.667	0.00	0.14	0.881	IO				5.88
43.750	0.00	0.14	0.880	IO				5.87
43.833	0.00	0.13	0.879	IO				5.87
43.917	0.00	0.13	0.878	IO				5.87
44.000	0.00	0.13	0.877	IO				5.86
44.083	0.00	0.13	0.876	IO				5.86
44.167	0.00	0.13	0.875	IO				5.86
44.250	0.00	0.13	0.874	IO				5.85
44.333	0.00	0.13	0.873	IO				5.85
44.417	0.00	0.13	0.873	IO				5.84
44.500	0.00	0.13	0.872	IO				5.84
44.583	0.00	0.13	0.871	IO				5.84
44.667	0.00	0.13	0.870	IO				5.83
44.750	0.00	0.13	0.869	IO				5.83
44.833	0.00	0.13	0.868	IO				5.83
44.917	0.00	0.13	0.867	IO				5.82
45.000	0.00	0.13	0.866	IO				5.82

45.083	0.00	0.13	0.865	IO					5.82
45.167	0.00	0.13	0.865	IO					5.81
45.250	0.00	0.13	0.864	IO					5.81
45.333	0.00	0.13	0.863	IO					5.81
45.417	0.00	0.12	0.862	IO					5.80
45.500	0.00	0.12	0.861	IO					5.80
45.583	0.00	0.12	0.860	IO					5.79
45.667	0.00	0.12	0.859	IO					5.79
45.750	0.00	0.12	0.859	IO					5.79
45.833	0.00	0.12	0.858	IO					5.78
45.917	0.00	0.12	0.857	IO					5.78
46.000	0.00	0.12	0.856	IO					5.78
46.083	0.00	0.12	0.855	IO					5.77
46.167	0.00	0.12	0.854	IO					5.77
46.250	0.00	0.12	0.854	IO					5.77
46.333	0.00	0.12	0.853	IO					5.76
46.417	0.00	0.12	0.852	IO					5.76
46.500	0.00	0.12	0.851	IO					5.76
46.583	0.00	0.12	0.850	IO					5.75
46.667	0.00	0.12	0.850	IO					5.75
46.750	0.00	0.12	0.849	IO					5.75
46.833	0.00	0.12	0.848	IO					5.74
46.917	0.00	0.12	0.847	IO					5.74
47.000	0.00	0.12	0.846	IO					5.74
47.083	0.00	0.11	0.846	IO					5.74
47.167	0.00	0.11	0.845	IO					5.73
47.250	0.00	0.11	0.844	IO					5.73
47.333	0.00	0.11	0.843	IO					5.73
47.417	0.00	0.11	0.842	IO					5.72
47.500	0.00	0.11	0.842	IO					5.72
47.583	0.00	0.11	0.841	IO					5.72
47.667	0.00	0.11	0.840	IO					5.71
47.750	0.00	0.11	0.839	IO					5.71
47.833	0.00	0.11	0.839	IO					5.71
47.917	0.00	0.11	0.838	IO					5.70
48.000	0.00	0.11	0.837	IO					5.70
48.083	0.00	0.11	0.836	IO					5.70
48.167	0.00	0.11	0.836	IO					5.69
48.250	0.00	0.11	0.835	IO					5.69
48.333	0.00	0.11	0.834	IO					5.69
48.417	0.00	0.11	0.833	IO					5.69
48.500	0.00	0.11	0.833	IO					5.68
48.583	0.00	0.11	0.832	IO					5.68
48.667	0.00	0.11	0.831	IO					5.68
48.750	0.00	0.11	0.830	IO					5.67
48.833	0.00	0.11	0.830	IO					5.67
48.917	0.00	0.10	0.829	IO					5.67
49.000	0.00	0.10	0.828	IO					5.66
49.083	0.00	0.10	0.827	IO					5.66
49.167	0.00	0.10	0.827	IO					5.66
49.250	0.00	0.10	0.826	IO					5.66
49.333	0.00	0.10	0.825	IO					5.65
49.417	0.00	0.10	0.825	IO					5.65
49.500	0.00	0.10	0.824	IO					5.65
49.583	0.00	0.10	0.823	IO					5.64
49.667	0.00	0.10	0.823	IO					5.64
49.750	0.00	0.10	0.822	IO					5.64
49.833	0.00	0.10	0.821	IO					5.64
49.917	0.00	0.10	0.820	IO					5.63

Remaining water in basin = 0.82 (Ac.Ft)

**********HYDROGRAPH DATA**********

Number of intervals = 599
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 0.367 (CFS)
Total volume = 0.664 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

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                      Study date: 03/02/22

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******************** HYDROGRAPH INFORMATION **********************

               From study/file name: pro11001100.rte
*****************************HYDROGRAPH DATA*****************************
               Number of intervals =    15
               Time interval =    5.0 (Min.)
               Maximum/Peak flow rate =       26.002 (CFS)
               Total volume =       0.813 (Ac.Ft)
       Status of hydrographs being held in storage
                    Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
       Peak (CFS)      0.000     0.000     0.000     0.000     0.000
       Vol (Ac.Ft)     0.000     0.000     0.000     0.000     0.000
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Process from Point/Station        1.000 to Point/Station        2.000
**** RETARDING BASIN ROUTING ****
____________________________________________________________________________

User entry of depth-outflow-storage data
------------------------------------------------------------------------
Total number of inflow hydrograph intervals = 15
Hydrograph time unit =  5.000 (Min.)
Initial depth in storage basin =   0.00(Ft.)
------------------------------------------------------------------------
------------------------------------------------------------------------
Initial basin depth =   0.00 (Ft.)
Initial basin storage =      0.00 (Ac.Ft)
Initial basin outflow =   0.00 (CFS)
------------------------------------------------------------------------
------------------------------------------------------------------------
Depth vs. Storage and Depth vs. Discharge data:
 Basin Depth  Storage    Outflow   (S-O*dt/2)   (S+O*dt/2)
     (Ft.)    (Ac.Ft)    (CFS)     (Ac.Ft)    (Ac.Ft)
------------------------------------------------------------------------
   0.000      0.000      0.000      0.000        0.000
   1.000      0.063      0.001      0.063        0.063
   2.000      0.125      0.002      0.125        0.125
   3.000      0.293      0.003      0.293        0.293
   4.000      0.459      0.005      0.459        0.459
   5.000      0.664      0.006      0.664        0.664
   6.000      0.911      0.154      0.910        0.912
   7.000      1.202      0.268      1.201        1.203
   7.850      1.487      0.678      1.485        1.489
   8.200      1.796     22.862      1.717        1.875
------------------------------------------------------------------------
               Hydrograph Detention Basin Routing
------------------------------------------------------------------------

Graph values: 'I'= unit inflow; 'O'=outflow at time shown
------------------------------------------------------------------------
 Time   Inflow  Outflow    Storage                                    Depth
(Hours) (CFS)   (CFS)     (Ac.Ft) .0       6.5   13.00   19.50   26.00 (Ft.)
 0.083    1.81    0.00      0.006  O I     |       |       |       |     0.10
 0.167    3.52    0.00      0.025  O   I   |       |       |       |     0.39
 0.250    4.37    0.00      0.052  O    I  |       |       |       |     0.82
 0.333    4.93    0.00      0.084  O     I |       |       |       |     1.34
 0.417    5.55    0.00      0.120  O     I |       |       |       |     1.92
 0.500    6.53    0.00      0.162  O       I       |       |       |     2.22
 0.583    7.65    0.00      0.210  O       |I      |       |       |     2.51
 0.667    9.11    0.00      0.268  O       |  I    |       |       |     2.85
 0.750   12.43    0.00      0.342  O       |       I|       |       |     3.30
 0.833   26.00    0.01      0.474  O       |        |       |      I|     4.08
 0.917   21.83    0.01      0.639  O       |        |       | I     |     4.88
 1.000    9.30    0.06      0.746  O       |  I     |       |       |     5.33
 1.083    4.10    0.08      0.792  O    I  |        |       |       |     5.52
 1.167    0.67    0.09      0.808  O       |        |       |       |     5.58
 1.250    0.17    0.09      0.810  O       |        |       |       |     5.59
 1.333    0.00    0.09      0.810  O       |        |       |       |     5.59
```

```
Remaining water in basin =    0.81 (Ac.Ft)


**************************HYDROGRAPH DATA**************************
               Number of intervals =    16
               Time interval =    5.0 (Min.)
               Maximum/Peak flow rate =        0.093 (CFS)
               Total volume =       0.003 (Ac.Ft)
       Status of hydrographs being held in storage
                  Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
       Peak (CFS)      0.000     0.000     0.000     0.000     0.000
       Vol (Ac.Ft)      0.000     0.000     0.000     0.000     0.000
*******************************************************************

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                          Study date: 03/02/22

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******************** HYDROGRAPH INFORMATION **********************

               From study/file name: pro11003100.rte
*****************************HYDROGRAPH DATA*****************************
               Number of intervals =    39
               Time interval =    5.0 (Min.)
               Maximum/Peak flow rate =       15.014 (CFS)
               Total volume =       1.133 (Ac.Ft)
       Status of hydrographs being held in storage
                    Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
       Peak (CFS)      0.000     0.000     0.000     0.000     0.000
       Vol (Ac.Ft)     0.000     0.000     0.000     0.000     0.000
************************************************************************



++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        1.000 to Point/Station        2.000
**** RETARDING BASIN ROUTING ****
____________________________________________________________________________

User entry of depth-outflow-storage data
------------------------------------------------------------------------
Total number of inflow hydrograph intervals = 39
Hydrograph time unit =  5.000 (Min.)
Initial depth in storage basin =   0.00(Ft.)
------------------------------------------------------------------------
------------------------------------------------------------------------
Initial basin depth =   0.00 (Ft.)
Initial basin storage =      0.00 (Ac.Ft)
Initial basin outflow =   0.00 (CFS)
------------------------------------------------------------------------
------------------------------------------------------------------------
Depth vs. Storage and Depth vs. Discharge data:
 Basin Depth  Storage    Outflow   (S-O*dt/2)   (S+O*dt/2)
     (Ft.)    (Ac.Ft)    (CFS)     (Ac.Ft)    (Ac.Ft)
------------------------------------------------------------------------
   0.000      0.000      0.000      0.000        0.000
   1.000      0.063      0.001      0.063        0.063
   2.000      0.125      0.002      0.125        0.125
   3.000      0.293      0.003      0.293        0.293
   4.000      0.459      0.005      0.459        0.459
   5.000      0.664      0.006      0.664        0.664
   6.000      0.911      0.154      0.910        0.912
   7.000      1.202      0.268      1.201        1.203
   7.850      1.487      0.678      1.485        1.489
   8.200      1.796     22.862      1.717        1.875
------------------------------------------------------------------------
               Hydrograph Detention Basin Routing
------------------------------------------------------------------------

Graph values: 'I'= unit inflow; 'O'=outflow at time shown
------------------------------------------------------------------------
 Time   Inflow  Outflow    Storage                                    Depth
(Hours) (CFS)   (CFS)     (Ac.Ft) .0       3.8    7.51   11.26   15.01 (Ft.)
 0.083    0.85    0.00      0.003  OI      |       |       |       |     0.05
 0.167    1.62    0.00      0.011  O  I    |       |       |       |     0.18
 0.250    1.64    0.00      0.023  O  I    |       |       |       |     0.36
 0.333    1.84    0.00      0.035  O  I    |       |       |       |     0.55
 0.417    2.05    0.00      0.048  O   I   |       |       |       |     0.76
 0.500    2.29    0.00      0.063  O   I   |       |       |       |     1.00
 0.583    2.29    0.00      0.079  O   I   |       |       |       |     1.25
 0.667    2.34    0.00      0.095  O   I   |       |       |       |     1.51
 0.750    2.50    0.00      0.111  O    I  |       |       |       |     1.78
 0.833    2.32    0.00      0.128  O   I   |       |       |       |     2.02
 0.917    2.22    0.00      0.143  O   I   |       |       |       |     2.11
 1.000    2.38    0.00      0.159  O    I  |       |       |       |     2.20
 1.083    2.76    0.00      0.177  O    I  |       |       |       |     2.31
 1.167    3.02    0.00      0.197  O     I |       |       |       |     2.43
 1.250    3.08    0.00      0.218  O     I |       |       |       |     2.55
 1.333    2.96    0.00      0.239  O     I |       |       |       |     2.68
 1.417    3.30    0.00      0.260  O      I|       |       |       |     2.80
 1.500    3.79    0.00      0.285  O       I       |       |       |     2.95
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1.583	3.66	0.00	0.310	o	I	|	|	|	3.10
1.667	3.74	0.00	0.336	o	I	|	|	|	3.26
1.750	4.60	0.00	0.364	o	| I	|	|	|	3.43
1.833	4.99	0.00	0.397	o	| I	|	|	|	3.63
1.917	4.72	0.00	0.431	o	| I	|	|	|	3.83
2.000	4.64	0.01	0.463	o	| I	|	|	|	4.02
2.083	4.79	0.01	0.495	o	| I	|	|	|	4.18
2.167	6.05	0.01	0.533	o	| I	|	|	|	4.36
2.250	7.97	0.01	0.581	o	| I	|	|	|	4.59
2.333	7.36	0.01	0.634	o	| I	|	|	|	4.85
2.417	9.63	0.02	0.692	o	| I	|	|	|	5.11
2.500	13.10	0.07	0.770	o	| I	|	|	|	5.43
2.583	15.01	0.13	0.866	o	| I	|	|	|	5.82
2.667	13.80	0.17	0.964	o	| I	|	|	|	6.18
2.750	7.89	0.20	1.038	o	| I	|	|	|	6.44
2.833	3.84	0.22	1.077	o	I	|	|	|	6.57
2.917	2.85	0.23	1.098	o	I	|	|	|	6.64
3.000	1.76	0.23	1.112	o I	|	|	|	|	6.69
3.083	0.65	0.24	1.119	oI	|	|	|	|	6.72
3.167	0.15	0.24	1.120	o	|	|	|	|	6.72
3.250	0.03	0.24	1.119	o	|	|	|	|	6.72
3.333	0.00	0.23	1.118	o	|	|	|	|	6.71
3.417	0.00	0.23	1.116	o	|	|	|	|	6.70
3.500	0.00	0.23	1.115	o	|	|	|	|	6.70
3.583	0.00	0.23	1.113	o	|	|	|	|	6.69
3.667	0.00	0.23	1.111	o	|	|	|	|	6.69
3.750	0.00	0.23	1.110	o	|	|	|	|	6.68
3.833	0.00	0.23	1.108	o	|	|	|	|	6.68
3.917	0.00	0.23	1.107	o	|	|	|	|	6.67
4.000	0.00	0.23	1.105	o	|	|	|	|	6.67
4.083	0.00	0.23	1.103	o	|	|	|	|	6.66
4.167	0.00	0.23	1.102	o	|	|	|	|	6.66
4.250	0.00	0.23	1.100	o	|	|	|	|	6.65
4.333	0.00	0.23	1.099	o	|	|	|	|	6.64
4.417	0.00	0.23	1.097	o	|	|	|	|	6.64
4.500	0.00	0.23	1.096	o	|	|	|	|	6.63
4.583	0.00	0.23	1.094	o	|	|	|	|	6.63
4.667	0.00	0.23	1.092	o	|	|	|	|	6.62
4.750	0.00	0.22	1.091	o	|	|	|	|	6.62
4.833	0.00	0.22	1.089	o	|	|	|	|	6.61
4.917	0.00	0.22	1.088	o	|	|	|	|	6.61
5.000	0.00	0.22	1.086	o	|	|	|	|	6.60
5.083	0.00	0.22	1.085	o	|	|	|	|	6.60
5.167	0.00	0.22	1.083	o	|	|	|	|	6.59
5.250	0.00	0.22	1.082	o	|	|	|	|	6.59
5.333	0.00	0.22	1.080	o	|	|	|	|	6.58
5.417	0.00	0.22	1.079	o	|	|	|	|	6.58
5.500	0.00	0.22	1.077	o	|	|	|	|	6.57
5.583	0.00	0.22	1.076	o	|	|	|	|	6.57
5.667	0.00	0.22	1.074	o	|	|	|	|	6.56
5.750	0.00	0.22	1.073	o	|	|	|	|	6.56
5.833	0.00	0.22	1.071	o	|	|	|	|	6.55
5.917	0.00	0.22	1.070	o	|	|	|	|	6.55
6.000	0.00	0.22	1.068	o	|	|	|	|	6.54
6.083	0.00	0.21	1.067	o	|	|	|	|	6.53
6.167	0.00	0.21	1.065	o	|	|	|	|	6.53
6.250	0.00	0.21	1.064	o	|	|	|	|	6.52
6.333	0.00	0.21	1.062	o	|	|	|	|	6.52
6.417	0.00	0.21	1.061	o	|	|	|	|	6.51
6.500	0.00	0.21	1.059	o	|	|	|	|	6.51
6.583	0.00	0.21	1.058	o	|	|	|	|	6.50
6.667	0.00	0.21	1.056	o	|	|	|	|	6.50
6.750	0.00	0.21	1.055	o	|	|	|	|	6.49
6.833	0.00	0.21	1.053	o	|	|	|	|	6.49
6.917	0.00	0.21	1.052	o	|	|	|	|	6.48
7.000	0.00	0.21	1.051	o	|	|	|	|	6.48
7.083	0.00	0.21	1.049	o	|	|	|	|	6.47
7.167	0.00	0.21	1.048	o	|	|	|	|	6.47
7.250	0.00	0.21	1.046	o	|	|	|	|	6.46
7.333	0.00	0.21	1.045	o	|	|	|	|	6.46
7.417	0.00	0.21	1.043	o	|	|	|	|	6.46
7.500	0.00	0.21	1.042	o	|	|	|	|	6.45
7.583	0.00	0.20	1.041	o	|	|	|	|	6.45
7.667	0.00	0.20	1.039	o	|	|	|	|	6.44
7.750	0.00	0.20	1.038	o	|	|	|	|	6.44
7.833	0.00	0.20	1.036	o	|	|	|	|	6.43
7.917	0.00	0.20	1.035	o	|	|	|	|	6.43
8.000	0.00	0.20	1.034	o	|	|	|	|	6.42
8.083	0.00	0.20	1.032	o	|	|	|	|	6.42
8.167	0.00	0.20	1.031	o	|	|	|	|	6.41
8.250	0.00	0.20	1.029	o	|	|	|	|	6.41
8.333	0.00	0.20	1.028	o	|	|	|	|	6.40
8.417	0.00	0.20	1.027	o	|	|	|	|	6.40
8.500	0.00	0.20	1.025	o	|	|	|	|	6.39
8.583	0.00	0.20	1.024	o	|	|	|	|	6.39
8.667	0.00	0.20	1.023	o	|	|	|	|	6.38
8.750	0.00	0.20	1.021	o	|	|	|	|	6.38

8.833	0.00	0.20	1.020	o	|	|	|	6.37
8.917	0.00	0.20	1.019	o	|	|	|	6.37
9.000	0.00	0.20	1.017	o	|	|	|	6.36
9.083	0.00	0.20	1.016	o	|	|	|	6.36
9.167	0.00	0.19	1.015	o	|	|	|	6.36
9.250	0.00	0.19	1.013	o	|	|	|	6.35
9.333	0.00	0.19	1.012	o	|	|	|	6.35
9.417	0.00	0.19	1.011	o	|	|	|	6.34
9.500	0.00	0.19	1.009	o	|	|	|	6.34
9.583	0.00	0.19	1.008	o	|	|	|	6.33
9.667	0.00	0.19	1.007	o	|	|	|	6.33
9.750	0.00	0.19	1.005	o	|	|	|	6.32
9.833	0.00	0.19	1.004	o	|	|	|	6.32
9.917	0.00	0.19	1.003	o	|	|	|	6.31
10.000	0.00	0.19	1.001	o	|	|	|	6.31
10.083	0.00	0.19	1.000	o	|	|	|	6.31
10.167	0.00	0.19	0.999	o	|	|	|	6.30
10.250	0.00	0.19	0.997	o	|	|	|	6.30
10.333	0.00	0.19	0.996	o	|	|	|	6.29
10.417	0.00	0.19	0.995	o	|	|	|	6.29
10.500	0.00	0.19	0.994	o	|	|	|	6.28
10.583	0.00	0.19	0.992	o	|	|	|	6.28
10.667	0.00	0.19	0.991	o	|	|	|	6.27
10.750	0.00	0.18	0.990	o	|	|	|	6.27
10.833	0.00	0.18	0.988	o	|	|	|	6.27
10.917	0.00	0.18	0.987	o	|	|	|	6.26
11.000	0.00	0.18	0.986	o	|	|	|	6.26
11.083	0.00	0.18	0.985	o	|	|	|	6.25
11.167	0.00	0.18	0.983	o	|	|	|	6.25
11.250	0.00	0.18	0.982	o	|	|	|	6.24
11.333	0.00	0.18	0.981	o	|	|	|	6.24
11.417	0.00	0.18	0.980	o	|	|	|	6.24
11.500	0.00	0.18	0.978	o	|	|	|	6.23
11.583	0.00	0.18	0.977	o	|	|	|	6.23
11.667	0.00	0.18	0.976	o	|	|	|	6.22
11.750	0.00	0.18	0.975	o	|	|	|	6.22
11.833	0.00	0.18	0.973	o	|	|	|	6.21
11.917	0.00	0.18	0.972	o	|	|	|	6.21
12.000	0.00	0.18	0.971	o	|	|	|	6.21
12.083	0.00	0.18	0.970	o	|	|	|	6.20
12.167	0.00	0.18	0.969	o	|	|	|	6.20
12.250	0.00	0.18	0.967	o	|	|	|	6.19
12.333	0.00	0.18	0.966	o	|	|	|	6.19
12.417	0.00	0.18	0.965	o	|	|	|	6.19
12.500	0.00	0.17	0.964	o	|	|	|	6.18
12.583	0.00	0.17	0.963	o	|	|	|	6.18
12.667	0.00	0.17	0.961	o	|	|	|	6.17
12.750	0.00	0.17	0.960	o	|	|	|	6.17
12.833	0.00	0.17	0.959	o	|	|	|	6.16
12.917	0.00	0.17	0.958	o	|	|	|	6.16
13.000	0.00	0.17	0.957	o	|	|	|	6.16
13.083	0.00	0.17	0.955	o	|	|	|	6.15
13.167	0.00	0.17	0.954	o	|	|	|	6.15
13.250	0.00	0.17	0.953	o	|	|	|	6.14
13.333	0.00	0.17	0.952	o	|	|	|	6.14
13.417	0.00	0.17	0.951	o	|	|	|	6.14
13.500	0.00	0.17	0.950	o	|	|	|	6.13
13.583	0.00	0.17	0.948	o	|	|	|	6.13
13.667	0.00	0.17	0.947	o	|	|	|	6.12
13.750	0.00	0.17	0.946	o	|	|	|	6.12
13.833	0.00	0.17	0.945	o	|	|	|	6.12
13.917	0.00	0.17	0.944	o	|	|	|	6.11
14.000	0.00	0.17	0.943	o	|	|	|	6.11
14.083	0.00	0.17	0.941	o	|	|	|	6.10
14.167	0.00	0.17	0.940	o	|	|	|	6.10
14.250	0.00	0.17	0.939	o	|	|	|	6.10
14.333	0.00	0.16	0.938	o	|	|	|	6.09
14.417	0.00	0.16	0.937	o	|	|	|	6.09
14.500	0.00	0.16	0.936	o	|	|	|	6.09
14.583	0.00	0.16	0.935	o	|	|	|	6.08
14.667	0.00	0.16	0.934	o	|	|	|	6.08
14.750	0.00	0.16	0.932	o	|	|	|	6.07
14.833	0.00	0.16	0.931	o	|	|	|	6.07
14.917	0.00	0.16	0.930	o	|	|	|	6.07
15.000	0.00	0.16	0.929	o	|	|	|	6.06
15.083	0.00	0.16	0.928	o	|	|	|	6.06
15.167	0.00	0.16	0.927	o	|	|	|	6.05
15.250	0.00	0.16	0.926	o	|	|	|	6.05
15.333	0.00	0.16	0.925	o	|	|	|	6.05
15.417	0.00	0.16	0.924	o	|	|	|	6.04
15.500	0.00	0.16	0.922	o	|	|	|	6.04
15.583	0.00	0.16	0.921	o	|	|	|	6.04
15.667	0.00	0.16	0.920	o	|	|	|	6.03
15.750	0.00	0.16	0.919	o	|	|	|	6.03
15.833	0.00	0.16	0.918	o	|	|	|	6.02
15.917	0.00	0.16	0.917	o	|	|	|	6.02
16.000	0.00	0.16	0.916	o	|	|	|	6.02

16.083	0.00	0.16	0.915	o				6.01
16.167	0.00	0.16	0.914	o				6.01
16.250	0.00	0.15	0.913	o				6.01
16.333	0.00	0.15	0.912	o				6.00
16.417	0.00	0.15	0.911	o				6.00
16.500	0.00	0.15	0.910	o				5.99
16.583	0.00	0.15	0.909	o				5.99
16.667	0.00	0.15	0.907	o				5.99
16.750	0.00	0.15	0.906	o				5.98
16.833	0.00	0.15	0.905	o				5.98
16.917	0.00	0.15	0.904	o				5.97
17.000	0.00	0.15	0.903	o				5.97
17.083	0.00	0.15	0.902	o				5.96
17.167	0.00	0.15	0.901	o				5.96
17.250	0.00	0.15	0.900	o				5.96
17.333	0.00	0.15	0.899	o				5.95
17.417	0.00	0.15	0.898	o				5.95
17.500	0.00	0.15	0.897	o				5.94
17.583	0.00	0.15	0.896	o				5.94
17.667	0.00	0.14	0.895	o				5.94
17.750	0.00	0.14	0.894	o				5.93
17.833	0.00	0.14	0.893	o				5.93
17.917	0.00	0.14	0.892	o				5.92
18.000	0.00	0.14	0.891	o				5.92
18.083	0.00	0.14	0.890	o				5.92
18.167	0.00	0.14	0.889	o				5.91
18.250	0.00	0.14	0.888	o				5.91
18.333	0.00	0.14	0.887	o				5.90
18.417	0.00	0.14	0.886	o				5.90
18.500	0.00	0.14	0.885	o				5.90
18.583	0.00	0.14	0.885	o				5.89
18.667	0.00	0.14	0.884	o				5.89
18.750	0.00	0.14	0.883	o				5.89
18.833	0.00	0.14	0.882	o				5.88
18.917	0.00	0.14	0.881	o				5.88
19.000	0.00	0.14	0.880	o				5.87
19.083	0.00	0.13	0.879	o				5.87
19.167	0.00	0.13	0.878	o				5.87
19.250	0.00	0.13	0.877	o				5.86
19.333	0.00	0.13	0.876	o				5.86
19.417	0.00	0.13	0.875	o				5.86
19.500	0.00	0.13	0.874	o				5.85
19.583	0.00	0.13	0.873	o				5.85
19.667	0.00	0.13	0.872	o				5.84
19.750	0.00	0.13	0.872	o				5.84
19.833	0.00	0.13	0.871	o				5.84
19.917	0.00	0.13	0.870	o				5.83
20.000	0.00	0.13	0.869	o				5.83
20.083	0.00	0.13	0.868	o				5.83
20.167	0.00	0.13	0.867	o				5.82
20.250	0.00	0.13	0.866	o				5.82
20.333	0.00	0.13	0.865	o				5.82
20.417	0.00	0.13	0.864	o				5.81
20.500	0.00	0.13	0.864	o				5.81
20.583	0.00	0.13	0.863	o				5.80
20.667	0.00	0.12	0.862	o				5.80
20.750	0.00	0.12	0.861	o				5.80
20.833	0.00	0.12	0.860	o				5.79
20.917	0.00	0.12	0.859	o				5.79
21.000	0.00	0.12	0.859	o				5.79
21.083	0.00	0.12	0.858	o				5.78
21.167	0.00	0.12	0.857	o				5.78
21.250	0.00	0.12	0.856	o				5.78
21.333	0.00	0.12	0.855	o				5.77
21.417	0.00	0.12	0.854	o				5.77
21.500	0.00	0.12	0.854	o				5.77
21.583	0.00	0.12	0.853	o				5.76
21.667	0.00	0.12	0.852	o				5.76
21.750	0.00	0.12	0.851	o				5.76
21.833	0.00	0.12	0.850	o				5.75
21.917	0.00	0.12	0.849	o				5.75
22.000	0.00	0.12	0.849	o				5.75
22.083	0.00	0.12	0.848	o				5.74
22.167	0.00	0.12	0.847	o				5.74
22.250	0.00	0.12	0.846	o				5.74
22.333	0.00	0.11	0.845	o				5.73
22.417	0.00	0.11	0.845	o				5.73
22.500	0.00	0.11	0.844	o				5.73
22.583	0.00	0.11	0.843	o				5.73
22.667	0.00	0.11	0.842	o				5.72
22.750	0.00	0.11	0.842	o				5.72
22.833	0.00	0.11	0.841	o				5.72
22.917	0.00	0.11	0.840	o				5.71
23.000	0.00	0.11	0.839	o				5.71
23.083	0.00	0.11	0.838	o				5.71
23.167	0.00	0.11	0.838	o				5.70
23.250	0.00	0.11	0.837	o				5.70

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23.333    0.00    0.11      0.836  o       |       |       |       |     5.70
23.417    0.00    0.11      0.835  o       |       |       |       |     5.69
23.500    0.00    0.11      0.835  o       |       |       |       |     5.69
23.583    0.00    0.11      0.834  o       |       |       |       |     5.69
23.667    0.00    0.11      0.833  o       |       |       |       |     5.69
23.750    0.00    0.11      0.832  o       |       |       |       |     5.68
23.833    0.00    0.11      0.832  o       |       |       |       |     5.68
23.917    0.00    0.11      0.831  o       |       |       |       |     5.68
24.000    0.00    0.11      0.830  o       |       |       |       |     5.67
24.083    0.00    0.11      0.830  o       |       |       |       |     5.67
24.167    0.00    0.10      0.829  o       |       |       |       |     5.67
24.250    0.00    0.10      0.828  o       |       |       |       |     5.66
24.333    0.00    0.10      0.827  o       |       |       |       |     5.66
24.417    0.00    0.10      0.827  o       |       |       |       |     5.66
24.500    0.00    0.10      0.826  o       |       |       |       |     5.66
24.583    0.00    0.10      0.825  o       |       |       |       |     5.65
24.667    0.00    0.10      0.825  o       |       |       |       |     5.65
24.750    0.00    0.10      0.824  o       |       |       |       |     5.65
24.833    0.00    0.10      0.823  o       |       |       |       |     5.64
24.917    0.00    0.10      0.822  o       |       |       |       |     5.64
25.000    0.00    0.10      0.822  o       |       |       |       |     5.64
25.083    0.00    0.10      0.821  o       |       |       |       |     5.64
25.167    0.00    0.10      0.820  o       |       |       |       |     5.63

 Remaining water in basin =    0.82 (Ac.Ft)

 ****************************HYDROGRAPH DATA****************************
               Number of intervals =   302
               Time interval =    5.0 (Min.)
               Maximum/Peak flow rate =        0.236 (CFS)
               Total volume =        0.313 (Ac.Ft)
        Status of hydrographs being held in storage
                  Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
        Peak (CFS)      0.000     0.000     0.000     0.000     0.000
        Vol (Ac.Ft)      0.000     0.000     0.000     0.000     0.000
 ***********************************************************************

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                    FLOOD HYDROGRAPH ROUTING PROGRAM
              Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2004
                          Study date: 03/02/22

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Program License Serial Number 5006

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******************** HYDROGRAPH INFORMATION **********************

               From study/file name: pro11006100.rte
*****************************HYDROGRAPH DATA*****************************
               Number of intervals =    75
               Time interval =    5.0 (Min.)
               Maximum/Peak flow rate =       12.965 (CFS)
               Total volume =       1.415 (Ac.Ft)
       Status of hydrographs being held in storage
                    Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
       Peak (CFS)      0.000     0.000     0.000     0.000     0.000
       Vol (Ac.Ft)     0.000     0.000     0.000     0.000     0.000
************************************************************************



++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        1.000 to Point/Station        2.000
**** RETARDING BASIN ROUTING ****
____________________________________________________________________________

User entry of depth-outflow-storage data
------------------------------------------------------------------------
Total number of inflow hydrograph intervals = 75
Hydrograph time unit =  5.000 (Min.)
Initial depth in storage basin =   0.00(Ft.)
------------------------------------------------------------------------
------------------------------------------------------------------------
Initial basin depth =   0.00 (Ft.)
Initial basin storage =      0.00 (Ac.Ft)
Initial basin outflow =   0.00 (CFS)
------------------------------------------------------------------------
------------------------------------------------------------------------
Depth vs. Storage and Depth vs. Discharge data:
 Basin Depth  Storage    Outflow   (S-O*dt/2)   (S+O*dt/2)
     (Ft.)    (Ac.Ft)    (CFS)     (Ac.Ft)    (Ac.Ft)
------------------------------------------------------------------------
   0.000      0.000      0.000      0.000        0.000
   1.000      0.063      0.001      0.063        0.063
   2.000      0.125      0.002      0.125        0.125
   3.000      0.293      0.003      0.293        0.293
   4.000      0.459      0.005      0.459        0.459
   5.000      0.664      0.006      0.664        0.664
   6.000      0.911      0.154      0.910        0.912
   7.000      1.202      0.268      1.201        1.203
   7.850      1.487      0.678      1.485        1.489
   8.200      1.796     22.862      1.717        1.875
------------------------------------------------------------------------
               Hydrograph Detention Basin Routing
------------------------------------------------------------------------

Graph values: 'I'= unit inflow; 'O'=outflow at time shown
------------------------------------------------------------------------
 Time   Inflow  Outflow    Storage                                    Depth
(Hours) (CFS)   (CFS)     (Ac.Ft) .0       3.2    6.48    9.72   12.96 (Ft.)
 0.083    0.43    0.00      0.001  OI      |       |       |       |     0.02
 0.167    0.90    0.00      0.006  O I     |       |       |       |     0.10
 0.250    1.06    0.00      0.013  O I     |       |       |       |     0.20
 0.333    1.10    0.00      0.020  O I     |       |       |       |     0.32
 0.417    1.11    0.00      0.028  O I     |       |       |       |     0.44
 0.500    1.20    0.00      0.036  O I     |       |       |       |     0.57
 0.583    1.27    0.00      0.044  O  I    |       |       |       |     0.70
 0.667    1.29    0.00      0.053  O  I    |       |       |       |     0.84
 0.750    1.30    0.00      0.062  O  I    |       |       |       |     0.99
 0.833    1.30    0.00      0.071  O  I    |       |       |       |     1.13
 0.917    1.30    0.00      0.080  O  I    |       |       |       |     1.27
 1.000    1.38    0.00      0.089  O  I    |       |       |       |     1.42
 1.083    1.46    0.00      0.099  O  I    |       |       |       |     1.58
 1.167    1.47    0.00      0.109  O  I    |       |       |       |     1.74
 1.250    1.48    0.00      0.119  O  I    |       |       |       |     1.91
 1.333    1.48    0.00      0.129  O  I    |       |       |       |     2.03
 1.417    1.48    0.00      0.139  O  I    |       |       |       |     2.09
 1.500    1.48    0.00      0.150  O  I    |       |       |       |     2.15
```

1.583	1.48	0.00	0.160	o	I				2.21
1.667	1.48	0.00	0.170	o	I				2.27
1.750	1.48	0.00	0.180	o	I				2.33
1.833	1.48	0.00	0.190	o	I				2.39
1.917	1.48	0.00	0.201	o	I				2.45
2.000	1.57	0.00	0.211	o	I				2.51
2.083	1.56	0.00	0.222	o	I				2.58
2.167	1.58	0.00	0.233	o	I				2.64
2.250	1.65	0.00	0.244	o	I				2.71
2.333	1.66	0.00	0.255	o	I				2.77
2.417	1.67	0.00	0.267	o	I				2.84
2.500	1.67	0.00	0.278	o	I				2.91
2.583	1.67	0.00	0.289	o	I				2.98
2.667	1.67	0.00	0.301	o	I				3.05
2.750	1.75	0.00	0.313	o	I				3.12
2.833	1.83	0.00	0.325	o	I				3.19
2.917	1.84	0.00	0.338	o	I				3.27
3.000	1.85	0.00	0.350	o	I				3.35
3.083	1.85	0.00	0.363	o	I				3.42
3.167	1.94	0.00	0.376	o	I				3.50
3.250	2.01	0.00	0.390	o	I				3.58
3.333	2.03	0.00	0.404	o	I				3.67
3.417	2.12	0.00	0.418	o	I				3.75
3.500	2.29	0.00	0.433	o	I				3.84
3.583	2.46	0.00	0.449	o	I				3.94
3.667	2.56	0.01	0.467	o	I				4.04
3.750	2.67	0.01	0.485	o	I				4.12
3.833	2.76	0.01	0.503	o	I				4.22
3.917	2.86	0.01	0.522	o	I				4.31
4.000	2.94	0.01	0.542	o	I				4.41
4.083	3.04	0.01	0.563	o	I				4.51
4.167	3.21	0.01	0.584	o	I				4.61
4.250	3.41	0.01	0.607	o	I				4.72
4.333	3.67	0.01	0.632	o	I				4.84
4.417	3.96	0.01	0.658	o	I				4.97
4.500	4.12	0.02	0.685	o	I				5.09
4.583	4.29	0.04	0.714	o	I				5.20
4.667	4.56	0.05	0.744	o	I				5.33
4.750	4.85	0.07	0.776	o	I				5.45
4.833	5.01	0.09	0.810	o	I				5.59
4.917	5.18	0.11	0.844	o	I				5.73
5.000	5.46	0.14	0.880	o	I				5.87
5.083	6.30	0.16	0.919	o	I				6.03
5.167	7.66	0.18	0.966	o	I				6.19
5.250	8.83	0.20	1.022	o	I				6.38
5.333	9.79	0.22	1.084	o	I				6.60
5.417	10.99	0.25	1.154	o	I				6.84
5.500	12.96	0.32	1.235	o	I				7.10
5.583	9.13	0.42	1.309	o	I				7.32
5.667	3.87	0.48	1.350	o	I				7.44
5.750	2.00	0.51	1.367	o	I				7.49
5.833	1.15	0.52	1.374	o	I				7.51
5.917	0.79	0.52	1.377	o	I				7.52
6.000	0.52	0.52	1.378	o	I				7.53
6.083	0.23	0.52	1.377	o	I				7.52
6.167	0.05	0.52	1.375	o	I				7.52
6.250	0.01	0.51	1.371	o	I				7.51
6.333	0.00	0.51	1.368	o	I				7.50
6.417	0.00	0.50	1.365	o	I				7.48
6.500	0.00	0.50	1.361	o	I				7.47
6.583	0.00	0.49	1.358	o	I				7.46
6.667	0.00	0.49	1.354	o	I				7.45
6.750	0.00	0.48	1.351	o	I				7.44
6.833	0.00	0.48	1.348	o	I				7.43
6.917	0.00	0.47	1.344	o	I				7.42
7.000	0.00	0.47	1.341	o	I				7.42
7.083	0.00	0.46	1.338	o	I				7.41
7.167	0.00	0.46	1.335	o	I				7.40
7.250	0.00	0.45	1.332	o	I				7.39
7.333	0.00	0.45	1.329	o	I				7.38
7.417	0.00	0.45	1.325	o	I				7.37
7.500	0.00	0.44	1.322	o	I				7.36
7.583	0.00	0.44	1.319	o	I				7.35
7.667	0.00	0.43	1.316	o	I				7.34
7.750	0.00	0.43	1.313	o	I				7.33
7.833	0.00	0.42	1.310	o	I				7.32
7.917	0.00	0.42	1.308	o	I				7.31
8.000	0.00	0.42	1.305	o	I				7.31
8.083	0.00	0.41	1.302	o	I				7.30
8.167	0.00	0.41	1.299	o	I				7.29
8.250	0.00	0.40	1.296	o	I				7.28
8.333	0.00	0.40	1.293	o	I				7.27
8.417	0.00	0.40	1.291	o	I				7.26
8.500	0.00	0.39	1.288	o	I				7.26
8.583	0.00	0.39	1.285	o	I				7.25
8.667	0.00	0.38	1.283	o	I				7.24
8.750	0.00	0.38	1.280	o	I				7.23

8.833	0.00	0.38	1.277	o	|	|	|	7.22
8.917	0.00	0.37	1.275	o	|	|	|	7.22
9.000	0.00	0.37	1.272	o	|	|	|	7.21
9.083	0.00	0.37	1.270	o	|	|	|	7.20
9.167	0.00	0.36	1.267	o	|	|	|	7.19
9.250	0.00	0.36	1.265	o	|	|	|	7.19
9.333	0.00	0.35	1.262	o	|	|	|	7.18
9.417	0.00	0.35	1.260	o	|	|	|	7.17
9.500	0.00	0.35	1.257	o	|	|	|	7.17
9.583	0.00	0.34	1.255	o	|	|	|	7.16
9.667	0.00	0.34	1.253	o	|	|	|	7.15
9.750	0.00	0.34	1.250	o	|	|	|	7.14
9.833	0.00	0.33	1.248	o	|	|	|	7.14
9.917	0.00	0.33	1.246	o	|	|	|	7.13
10.000	0.00	0.33	1.244	o	|	|	|	7.12
10.083	0.00	0.32	1.241	o	|	|	|	7.12
10.167	0.00	0.32	1.239	o	|	|	|	7.11
10.250	0.00	0.32	1.237	o	|	|	|	7.10
10.333	0.00	0.31	1.235	o	|	|	|	7.10
10.417	0.00	0.31	1.233	o	|	|	|	7.09
10.500	0.00	0.31	1.230	o	|	|	|	7.08
10.583	0.00	0.31	1.228	o	|	|	|	7.08
10.667	0.00	0.30	1.226	o	|	|	|	7.07
10.750	0.00	0.30	1.224	o	|	|	|	7.07
10.833	0.00	0.30	1.222	o	|	|	|	7.06
10.917	0.00	0.29	1.220	o	|	|	|	7.05
11.000	0.00	0.29	1.218	o	|	|	|	7.05
11.083	0.00	0.29	1.216	o	|	|	|	7.04
11.167	0.00	0.29	1.214	o	|	|	|	7.04
11.250	0.00	0.28	1.212	o	|	|	|	7.03
11.333	0.00	0.28	1.210	o	|	|	|	7.02
11.417	0.00	0.28	1.208	o	|	|	|	7.02
11.500	0.00	0.27	1.206	o	|	|	|	7.01
11.583	0.00	0.27	1.204	o	|	|	|	7.01
11.667	0.00	0.27	1.203	o	|	|	|	7.00
11.750	0.00	0.27	1.201	o	|	|	|	7.00
11.833	0.00	0.27	1.199	o	|	|	|	6.99
11.917	0.00	0.27	1.197	o	|	|	|	6.98
12.000	0.00	0.27	1.195	o	|	|	|	6.98
12.083	0.00	0.26	1.193	o	|	|	|	6.97
12.167	0.00	0.26	1.192	o	|	|	|	6.96
12.250	0.00	0.26	1.190	o	|	|	|	6.96
12.333	0.00	0.26	1.188	o	|	|	|	6.95
12.417	0.00	0.26	1.186	o	|	|	|	6.95
12.500	0.00	0.26	1.184	o	|	|	|	6.94
12.583	0.00	0.26	1.183	o	|	|	|	6.93
12.667	0.00	0.26	1.181	o	|	|	|	6.93
12.750	0.00	0.26	1.179	o	|	|	|	6.92
12.833	0.00	0.26	1.177	o	|	|	|	6.91
12.917	0.00	0.26	1.175	o	|	|	|	6.91
13.000	0.00	0.26	1.174	o	|	|	|	6.90
13.083	0.00	0.26	1.172	o	|	|	|	6.90
13.167	0.00	0.26	1.170	o	|	|	|	6.89
13.250	0.00	0.25	1.168	o	|	|	|	6.88
13.333	0.00	0.25	1.167	o	|	|	|	6.88
13.417	0.00	0.25	1.165	o	|	|	|	6.87
13.500	0.00	0.25	1.163	o	|	|	|	6.87
13.583	0.00	0.25	1.161	o	|	|	|	6.86
13.667	0.00	0.25	1.160	o	|	|	|	6.85
13.750	0.00	0.25	1.158	o	|	|	|	6.85
13.833	0.00	0.25	1.156	o	|	|	|	6.84
13.917	0.00	0.25	1.154	o	|	|	|	6.84
14.000	0.00	0.25	1.153	o	|	|	|	6.83
14.083	0.00	0.25	1.151	o	|	|	|	6.82
14.167	0.00	0.25	1.149	o	|	|	|	6.82
14.250	0.00	0.25	1.148	o	|	|	|	6.81
14.333	0.00	0.25	1.146	o	|	|	|	6.81
14.417	0.00	0.25	1.144	o	|	|	|	6.80
14.500	0.00	0.24	1.143	o	|	|	|	6.80
14.583	0.00	0.24	1.141	o	|	|	|	6.79
14.667	0.00	0.24	1.139	o	|	|	|	6.78
14.750	0.00	0.24	1.138	o	|	|	|	6.78
14.833	0.00	0.24	1.136	o	|	|	|	6.77
14.917	0.00	0.24	1.134	o	|	|	|	6.77
15.000	0.00	0.24	1.133	o	|	|	|	6.76
15.083	0.00	0.24	1.131	o	|	|	|	6.76
15.167	0.00	0.24	1.129	o	|	|	|	6.75
15.250	0.00	0.24	1.128	o	|	|	|	6.74
15.333	0.00	0.24	1.126	o	|	|	|	6.74
15.417	0.00	0.24	1.124	o	|	|	|	6.73
15.500	0.00	0.24	1.123	o	|	|	|	6.73
15.583	0.00	0.24	1.121	o	|	|	|	6.72
15.667	0.00	0.24	1.119	o	|	|	|	6.72
15.750	0.00	0.24	1.118	o	|	|	|	6.71
15.833	0.00	0.23	1.116	o	|	|	|	6.71
15.917	0.00	0.23	1.115	o	|	|	|	6.70
16.000	0.00	0.23	1.113	o	|	|	|	6.69

16.083	0.00	0.23	1.111	o	|	|	|	6.69
16.167	0.00	0.23	1.110	o	|	|	|	6.68
16.250	0.00	0.23	1.108	o	|	|	|	6.68
16.333	0.00	0.23	1.107	o	|	|	|	6.67
16.417	0.00	0.23	1.105	o	|	|	|	6.67
16.500	0.00	0.23	1.103	o	|	|	|	6.66
16.583	0.00	0.23	1.102	o	|	|	|	6.66
16.667	0.00	0.23	1.100	o	|	|	|	6.65
16.750	0.00	0.23	1.099	o	|	|	|	6.64
16.833	0.00	0.23	1.097	o	|	|	|	6.64
16.917	0.00	0.23	1.096	o	|	|	|	6.63
17.000	0.00	0.23	1.094	o	|	|	|	6.63
17.083	0.00	0.23	1.092	o	|	|	|	6.62
17.167	0.00	0.22	1.091	o	|	|	|	6.62
17.250	0.00	0.22	1.089	o	|	|	|	6.61
17.333	0.00	0.22	1.088	o	|	|	|	6.61
17.417	0.00	0.22	1.086	o	|	|	|	6.60
17.500	0.00	0.22	1.085	o	|	|	|	6.60
17.583	0.00	0.22	1.083	o	|	|	|	6.59
17.667	0.00	0.22	1.082	o	|	|	|	6.59
17.750	0.00	0.22	1.080	o	|	|	|	6.58
17.833	0.00	0.22	1.079	o	|	|	|	6.58
17.917	0.00	0.22	1.077	o	|	|	|	6.57
18.000	0.00	0.22	1.076	o	|	|	|	6.57
18.083	0.00	0.22	1.074	o	|	|	|	6.56
18.167	0.00	0.22	1.073	o	|	|	|	6.56
18.250	0.00	0.22	1.071	o	|	|	|	6.55
18.333	0.00	0.22	1.070	o	|	|	|	6.55
18.417	0.00	0.22	1.068	o	|	|	|	6.54
18.500	0.00	0.21	1.067	o	|	|	|	6.53
18.583	0.00	0.21	1.065	o	|	|	|	6.53
18.667	0.00	0.21	1.064	o	|	|	|	6.52
18.750	0.00	0.21	1.062	o	|	|	|	6.52
18.833	0.00	0.21	1.061	o	|	|	|	6.51
18.917	0.00	0.21	1.059	o	|	|	|	6.51
19.000	0.00	0.21	1.058	o	|	|	|	6.50
19.083	0.00	0.21	1.056	o	|	|	|	6.50
19.167	0.00	0.21	1.055	o	|	|	|	6.49
19.250	0.00	0.21	1.054	o	|	|	|	6.49
19.333	0.00	0.21	1.052	o	|	|	|	6.48
19.417	0.00	0.21	1.051	o	|	|	|	6.48
19.500	0.00	0.21	1.049	o	|	|	|	6.47
19.583	0.00	0.21	1.048	o	|	|	|	6.47
19.667	0.00	0.21	1.046	o	|	|	|	6.47
19.750	0.00	0.21	1.045	o	|	|	|	6.46
19.833	0.00	0.21	1.043	o	|	|	|	6.46
19.917	0.00	0.21	1.042	o	|	|	|	6.45
20.000	0.00	0.20	1.041	o	|	|	|	6.45
20.083	0.00	0.20	1.039	o	|	|	|	6.44
20.167	0.00	0.20	1.038	o	|	|	|	6.44
20.250	0.00	0.20	1.036	o	|	|	|	6.43
20.333	0.00	0.20	1.035	o	|	|	|	6.43
20.417	0.00	0.20	1.034	o	|	|	|	6.42
20.500	0.00	0.20	1.032	o	|	|	|	6.42
20.583	0.00	0.20	1.031	o	|	|	|	6.41
20.667	0.00	0.20	1.030	o	|	|	|	6.41
20.750	0.00	0.20	1.028	o	|	|	|	6.40
20.833	0.00	0.20	1.027	o	|	|	|	6.40
20.917	0.00	0.20	1.025	o	|	|	|	6.39
21.000	0.00	0.20	1.024	o	|	|	|	6.39
21.083	0.00	0.20	1.023	o	|	|	|	6.38
21.167	0.00	0.20	1.021	o	|	|	|	6.38
21.250	0.00	0.20	1.020	o	|	|	|	6.37
21.333	0.00	0.20	1.019	o	|	|	|	6.37
21.417	0.00	0.20	1.017	o	|	|	|	6.37
21.500	0.00	0.20	1.016	o	|	|	|	6.36
21.583	0.00	0.19	1.015	o	|	|	|	6.36
21.667	0.00	0.19	1.013	o	|	|	|	6.35
21.750	0.00	0.19	1.012	o	|	|	|	6.35
21.833	0.00	0.19	1.011	o	|	|	|	6.34
21.917	0.00	0.19	1.009	o	|	|	|	6.34
22.000	0.00	0.19	1.008	o	|	|	|	6.33
22.083	0.00	0.19	1.007	o	|	|	|	6.33
22.167	0.00	0.19	1.005	o	|	|	|	6.32
22.250	0.00	0.19	1.004	o	|	|	|	6.32
22.333	0.00	0.19	1.003	o	|	|	|	6.31
22.417	0.00	0.19	1.001	o	|	|	|	6.31
22.500	0.00	0.19	1.000	o	|	|	|	6.31
22.583	0.00	0.19	0.999	o	|	|	|	6.30
22.667	0.00	0.19	0.997	o	|	|	|	6.30
22.750	0.00	0.19	0.996	o	|	|	|	6.29
22.833	0.00	0.19	0.995	o	|	|	|	6.29
22.917	0.00	0.19	0.994	o	|	|	|	6.28
23.000	0.00	0.19	0.992	o	|	|	|	6.28
23.083	0.00	0.19	0.991	o	|	|	|	6.27
23.167	0.00	0.18	0.990	o	|	|	|	6.27
23.250	0.00	0.18	0.988	o	|	|	|	6.27

23.333	0.00	0.18	0.987	o	|	|	|	6.26
23.417	0.00	0.18	0.986	o	|	|	|	6.26
23.500	0.00	0.18	0.985	o	|	|	|	6.25
23.583	0.00	0.18	0.983	o	|	|	|	6.25
23.667	0.00	0.18	0.982	o	|	|	|	6.24
23.750	0.00	0.18	0.981	o	|	|	|	6.24
23.833	0.00	0.18	0.980	o	|	|	|	6.24
23.917	0.00	0.18	0.978	o	|	|	|	6.23
24.000	0.00	0.18	0.977	o	|	|	|	6.23
24.083	0.00	0.18	0.976	o	|	|	|	6.22
24.167	0.00	0.18	0.975	o	|	|	|	6.22
24.250	0.00	0.18	0.973	o	|	|	|	6.21
24.333	0.00	0.18	0.972	o	|	|	|	6.21
24.417	0.00	0.18	0.971	o	|	|	|	6.21
24.500	0.00	0.18	0.970	o	|	|	|	6.20
24.583	0.00	0.18	0.969	o	|	|	|	6.20
24.667	0.00	0.18	0.967	o	|	|	|	6.19
24.750	0.00	0.18	0.966	o	|	|	|	6.19
24.833	0.00	0.18	0.965	o	|	|	|	6.19
24.917	0.00	0.17	0.964	o	|	|	|	6.18
25.000	0.00	0.17	0.963	o	|	|	|	6.18
25.083	0.00	0.17	0.961	o	|	|	|	6.17
25.167	0.00	0.17	0.960	o	|	|	|	6.17
25.250	0.00	0.17	0.959	o	|	|	|	6.16
25.333	0.00	0.17	0.958	o	|	|	|	6.16
25.417	0.00	0.17	0.957	o	|	|	|	6.16
25.500	0.00	0.17	0.955	o	|	|	|	6.15
25.583	0.00	0.17	0.954	o	|	|	|	6.15
25.667	0.00	0.17	0.953	o	|	|	|	6.14
25.750	0.00	0.17	0.952	o	|	|	|	6.14
25.833	0.00	0.17	0.951	o	|	|	|	6.14
25.917	0.00	0.17	0.950	o	|	|	|	6.13
26.000	0.00	0.17	0.948	o	|	|	|	6.13
26.083	0.00	0.17	0.947	o	|	|	|	6.12
26.167	0.00	0.17	0.946	o	|	|	|	6.12
26.250	0.00	0.17	0.945	o	|	|	|	6.12
26.333	0.00	0.17	0.944	o	|	|	|	6.11
26.417	0.00	0.17	0.943	o	|	|	|	6.11
26.500	0.00	0.17	0.941	o	|	|	|	6.10
26.583	0.00	0.17	0.940	o	|	|	|	6.10
26.667	0.00	0.17	0.939	o	|	|	|	6.10
26.750	0.00	0.16	0.938	o	|	|	|	6.09
26.833	0.00	0.16	0.937	o	|	|	|	6.09
26.917	0.00	0.16	0.936	o	|	|	|	6.09
27.000	0.00	0.16	0.935	o	|	|	|	6.08
27.083	0.00	0.16	0.934	o	|	|	|	6.08
27.167	0.00	0.16	0.932	o	|	|	|	6.07
27.250	0.00	0.16	0.931	o	|	|	|	6.07
27.333	0.00	0.16	0.930	o	|	|	|	6.07
27.417	0.00	0.16	0.929	o	|	|	|	6.06
27.500	0.00	0.16	0.928	o	|	|	|	6.06
27.583	0.00	0.16	0.927	o	|	|	|	6.05
27.667	0.00	0.16	0.926	o	|	|	|	6.05
27.750	0.00	0.16	0.925	o	|	|	|	6.05
27.833	0.00	0.16	0.924	o	|	|	|	6.04
27.917	0.00	0.16	0.922	o	|	|	|	6.04
28.000	0.00	0.16	0.921	o	|	|	|	6.04
28.083	0.00	0.16	0.920	o	|	|	|	6.03
28.167	0.00	0.16	0.919	o	|	|	|	6.03
28.250	0.00	0.16	0.918	o	|	|	|	6.02
28.333	0.00	0.16	0.917	o	|	|	|	6.02
28.417	0.00	0.16	0.916	o	|	|	|	6.02
28.500	0.00	0.16	0.915	o	|	|	|	6.01
28.583	0.00	0.16	0.914	o	|	|	|	6.01
28.667	0.00	0.15	0.913	o	|	|	|	6.01
28.750	0.00	0.15	0.912	o	|	|	|	6.00
28.833	0.00	0.15	0.911	o	|	|	|	6.00
28.917	0.00	0.15	0.910	o	|	|	|	5.99
29.000	0.00	0.15	0.909	o	|	|	|	5.99
29.083	0.00	0.15	0.907	o	|	|	|	5.99
29.167	0.00	0.15	0.906	o	|	|	|	5.98
29.250	0.00	0.15	0.905	o	|	|	|	5.98
29.333	0.00	0.15	0.904	o	|	|	|	5.97
29.417	0.00	0.15	0.903	o	|	|	|	5.97
29.500	0.00	0.15	0.902	o	|	|	|	5.96
29.583	0.00	0.15	0.901	o	|	|	|	5.96
29.667	0.00	0.15	0.900	o	|	|	|	5.96
29.750	0.00	0.15	0.899	o	|	|	|	5.95
29.833	0.00	0.15	0.898	o	|	|	|	5.95
29.917	0.00	0.15	0.897	o	|	|	|	5.94
30.000	0.00	0.15	0.896	o	|	|	|	5.94
30.083	0.00	0.14	0.895	o	|	|	|	5.94
30.167	0.00	0.14	0.894	o	|	|	|	5.93
30.250	0.00	0.14	0.893	o	|	|	|	5.93
30.333	0.00	0.14	0.892	o	|	|	|	5.92
30.417	0.00	0.14	0.891	o	|	|	|	5.92
30.500	0.00	0.14	0.890	o	|	|	|	5.92

30.583	0.00	0.14	0.889	o				5.91
30.667	0.00	0.14	0.888	o				5.91
30.750	0.00	0.14	0.887	o				5.90
30.833	0.00	0.14	0.886	o				5.90
30.917	0.00	0.14	0.885	o				5.90
31.000	0.00	0.14	0.885	o				5.89
31.083	0.00	0.14	0.884	o				5.89
31.167	0.00	0.14	0.883	o				5.89
31.250	0.00	0.14	0.882	o				5.88
31.333	0.00	0.14	0.881	o				5.88
31.417	0.00	0.14	0.880	o				5.87
31.500	0.00	0.13	0.879	o				5.87
31.583	0.00	0.13	0.878	o				5.87
31.667	0.00	0.13	0.877	o				5.86
31.750	0.00	0.13	0.876	o				5.86
31.833	0.00	0.13	0.875	o				5.86
31.917	0.00	0.13	0.874	o				5.85
32.000	0.00	0.13	0.873	o				5.85
32.083	0.00	0.13	0.872	o				5.84
32.167	0.00	0.13	0.872	o				5.84
32.250	0.00	0.13	0.871	o				5.84
32.333	0.00	0.13	0.870	o				5.83
32.417	0.00	0.13	0.869	o				5.83
32.500	0.00	0.13	0.868	o				5.83
32.583	0.00	0.13	0.867	o				5.82
32.667	0.00	0.13	0.866	o				5.82
32.750	0.00	0.13	0.865	o				5.82
32.833	0.00	0.13	0.865	o				5.81
32.917	0.00	0.13	0.864	o				5.81
33.000	0.00	0.13	0.863	o				5.80
33.083	0.00	0.12	0.862	o				5.80
33.167	0.00	0.12	0.861	o				5.80
33.250	0.00	0.12	0.860	o				5.79
33.333	0.00	0.12	0.859	o				5.79
33.417	0.00	0.12	0.859	o				5.79
33.500	0.00	0.12	0.858	o				5.78
33.583	0.00	0.12	0.857	o				5.78
33.667	0.00	0.12	0.856	o				5.78
33.750	0.00	0.12	0.855	o				5.77
33.833	0.00	0.12	0.854	o				5.77
33.917	0.00	0.12	0.854	o				5.77
34.000	0.00	0.12	0.853	o				5.76
34.083	0.00	0.12	0.852	o				5.76
34.167	0.00	0.12	0.851	o				5.76
34.250	0.00	0.12	0.850	o				5.75
34.333	0.00	0.12	0.849	o				5.75
34.417	0.00	0.12	0.849	o				5.75
34.500	0.00	0.12	0.848	o				5.74
34.583	0.00	0.12	0.847	o				5.74
34.667	0.00	0.12	0.846	o				5.74
34.750	0.00	0.11	0.845	o				5.73
34.833	0.00	0.11	0.845	o				5.73
34.917	0.00	0.11	0.844	o				5.73
35.000	0.00	0.11	0.843	o				5.73
35.083	0.00	0.11	0.842	o				5.72
35.167	0.00	0.11	0.842	o				5.72
35.250	0.00	0.11	0.841	o				5.72
35.333	0.00	0.11	0.840	o				5.71
35.417	0.00	0.11	0.839	o				5.71
35.500	0.00	0.11	0.838	o				5.71
35.583	0.00	0.11	0.838	o				5.70
35.667	0.00	0.11	0.837	o				5.70
35.750	0.00	0.11	0.836	o				5.70
35.833	0.00	0.11	0.835	o				5.69
35.917	0.00	0.11	0.835	o				5.69
36.000	0.00	0.11	0.834	o				5.69
36.083	0.00	0.11	0.833	o				5.69
36.167	0.00	0.11	0.832	o				5.68
36.250	0.00	0.11	0.832	o				5.68
36.333	0.00	0.11	0.831	o				5.68
36.417	0.00	0.11	0.830	o				5.67
36.500	0.00	0.11	0.830	o				5.67
36.583	0.00	0.10	0.829	o				5.67
36.667	0.00	0.10	0.828	o				5.66
36.750	0.00	0.10	0.827	o				5.66
36.833	0.00	0.10	0.827	o				5.66
36.917	0.00	0.10	0.826	o				5.66
37.000	0.00	0.10	0.825	o				5.65
37.083	0.00	0.10	0.825	o				5.65
37.167	0.00	0.10	0.824	o				5.65
37.250	0.00	0.10	0.823	o				5.64
37.333	0.00	0.10	0.822	o				5.64
37.417	0.00	0.10	0.822	o				5.64
37.500	0.00	0.10	0.821	o				5.64
37.583	0.00	0.10	0.820	o				5.63

```
Remaining water in basin =    0.82 (Ac.Ft)

**************************HYDROGRAPH DATA**************************
               Number of intervals =   451
               Time interval =    5.0 (Min.)
               Maximum/Peak flow rate =        0.522 (CFS)
               Total volume =       0.595 (Ac.Ft)
       Status of hydrographs being held in storage
                  Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
       Peak (CFS)      0.000     0.000     0.000     0.000     0.000
       Vol (Ac.Ft)      0.000     0.000     0.000     0.000     0.000
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                FLOOD HYDROGRAPH ROUTING PROGRAM
          Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2004
                      Study date: 03/02/22

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Program License Serial Number 5006

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******************** HYDROGRAPH INFORMATION **********************

               From study/file name: pro110024100.rte
*****************************HYDROGRAPH DATA*****************************
               Number of intervals =   291
               Time interval =    5.0 (Min.)
               Maximum/Peak flow rate =        4.277 (CFS)
               Total volume =       2.323 (Ac.Ft)
       Status of hydrographs being held in storage
                    Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
       Peak (CFS)      0.000     0.000     0.000     0.000     0.000
       Vol (Ac.Ft)     0.000     0.000     0.000     0.000     0.000
************************************************************************



++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        1.000 to Point/Station        2.000
**** RETARDING BASIN ROUTING ****
____________________________________________________________________________

User entry of depth-outflow-storage data
------------------------------------------------------------------------
Total number of inflow hydrograph intervals = 291
Hydrograph time unit =  5.000 (Min.)
Initial depth in storage basin =   0.00(Ft.)
------------------------------------------------------------------------
------------------------------------------------------------------------
Initial basin depth =   0.00 (Ft.)
Initial basin storage =      0.00 (Ac.Ft)
Initial basin outflow =   0.00 (CFS)
------------------------------------------------------------------------
------------------------------------------------------------------------
Depth vs. Storage and Depth vs. Discharge data:
 Basin Depth  Storage    Outflow   (S-O*dt/2)   (S+O*dt/2)
     (Ft.)    (Ac.Ft)    (CFS)     (Ac.Ft)    (Ac.Ft)
------------------------------------------------------------------------
   0.000      0.000      0.000      0.000        0.000
   1.000      0.063      0.001      0.063        0.063
   2.000      0.125      0.002      0.125        0.125
   3.000      0.293      0.003      0.293        0.293
   4.000      0.459      0.005      0.459        0.459
   5.000      0.664      0.006      0.664        0.664
   6.000      0.911      0.154      0.910        0.912
   7.000      1.202      0.268      1.201        1.203
   7.850      1.487      0.678      1.485        1.489
   8.200      1.796     22.862      1.717        1.875
------------------------------------------------------------------------
               Hydrograph Detention Basin Routing
------------------------------------------------------------------------

Graph values: 'I'= unit inflow; 'O'=outflow at time shown
------------------------------------------------------------------------
 Time   Inflow  Outflow    Storage                                    Depth
(Hours) (CFS)   (CFS)     (Ac.Ft) .0       1.1    2.14    3.21    4.28 (Ft.)
 0.083    0.10    0.00      0.000  O       |       |       |       |     0.01
 0.167    0.20    0.00      0.001  OI      |       |       |       |     0.02
 0.250    0.21    0.00      0.003  OI      |       |       |       |     0.04
 0.333    0.27    0.00      0.004  O I     |       |       |       |     0.07
 0.417    0.32    0.00      0.007  O I     |       |       |       |     0.10
 0.500    0.33    0.00      0.009  O I     |       |       |       |     0.14
 0.583    0.33    0.00      0.011  O I     |       |       |       |     0.18
 0.667    0.33    0.00      0.013  O I     |       |       |       |     0.21
 0.750    0.33    0.00      0.016  O I     |       |       |       |     0.25
 0.833    0.38    0.00      0.018  O I     |       |       |       |     0.29
 0.917    0.43    0.00      0.021  O  I    |       |       |       |     0.33
 1.000    0.44    0.00      0.024  O  I    |       |       |       |     0.38
 1.083    0.39    0.00      0.027  O I     |       |       |       |     0.42
 1.167    0.35    0.00      0.029  O I     |       |       |       |     0.47
 1.250    0.34    0.00      0.032  O I     |       |       |       |     0.50
 1.333    0.33    0.00      0.034  O I     |       |       |       |     0.54
 1.417    0.33    0.00      0.036  O I     |       |       |       |     0.58
 1.500    0.33    0.00      0.039  O I     |       |       |       |     0.61
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1.583	0.33	0.00	0.041	o I	|	|	|	0.65
1.667	0.33	0.00	0.043	o I	|	|	|	0.68
1.750	0.33	0.00	0.045	o I	|	|	|	0.72
1.833	0.38	0.00	0.048	o I	|	|	|	0.76
1.917	0.43	0.00	0.051	o I	|	|	|	0.80
2.000	0.44	0.00	0.054	o I	|	|	|	0.85
2.083	0.44	0.00	0.057	o I	|	|	|	0.90
2.167	0.44	0.00	0.060	o I	|	|	|	0.95
2.250	0.44	0.00	0.063	o I	|	|	|	1.00
2.333	0.44	0.00	0.066	o I	|	|	|	1.05
2.417	0.44	0.00	0.069	o I	|	|	|	1.10
2.500	0.44	0.00	0.072	o I	|	|	|	1.15
2.583	0.50	0.00	0.075	o I	|	|	|	1.20
2.667	0.54	0.00	0.079	o I	|	|	|	1.25
2.750	0.55	0.00	0.083	o I	|	|	|	1.32
2.833	0.56	0.00	0.086	o I	|	|	|	1.38
2.917	0.56	0.00	0.090	o I	|	|	|	1.44
3.000	0.56	0.00	0.094	o I	|	|	|	1.50
3.083	0.56	0.00	0.098	o I	|	|	|	1.56
3.167	0.56	0.00	0.102	o I	|	|	|	1.62
3.250	0.56	0.00	0.105	o I	|	|	|	1.68
3.333	0.56	0.00	0.109	o I	|	|	|	1.75
3.417	0.56	0.00	0.113	o I	|	|	|	1.81
3.500	0.56	0.00	0.117	o I	|	|	|	1.87
3.583	0.56	0.00	0.121	o I	|	|	|	1.93
3.667	0.56	0.00	0.124	o I	|	|	|	1.99
3.750	0.56	0.00	0.128	o I	|	|	|	2.02
3.833	0.61	0.00	0.132	o I	|	|	|	2.04
3.917	0.65	0.00	0.137	o I	|	|	|	2.07
4.000	0.66	0.00	0.141	o I	|	|	|	2.10
4.083	0.67	0.00	0.146	o I	|	|	|	2.12
4.167	0.67	0.00	0.150	o I	|	|	|	2.15
4.250	0.67	0.00	0.155	o I	|	|	|	2.18
4.333	0.72	0.00	0.160	o I	|	|	|	2.21
4.417	0.76	0.00	0.165	o I	|	|	|	2.24
4.500	0.77	0.00	0.170	o I	|	|	|	2.27
4.583	0.78	0.00	0.175	o I	|	|	|	2.30
4.667	0.78	0.00	0.181	o I	|	|	|	2.33
4.750	0.78	0.00	0.186	o I	|	|	|	2.36
4.833	0.83	0.00	0.191	o I	|	|	|	2.40
4.917	0.88	0.00	0.197	o I	|	|	|	2.43
5.000	0.88	0.00	0.203	o I	|	|	|	2.47
5.083	0.79	0.00	0.209	o I	|	|	|	2.50
5.167	0.69	0.00	0.214	o I	|	|	|	2.53
5.250	0.67	0.00	0.219	o I	|	|	|	2.56
5.333	0.72	0.00	0.224	o I	|	|	|	2.59
5.417	0.76	0.00	0.229	o I	|	|	|	2.62
5.500	0.77	0.00	0.234	o I	|	|	|	2.65
5.583	0.83	0.00	0.240	o I	|	|	|	2.68
5.667	0.88	0.00	0.245	o I	|	|	|	2.72
5.750	0.88	0.00	0.251	o I	|	|	|	2.75
5.833	0.89	0.00	0.257	o I	|	|	|	2.79
5.917	0.89	0.00	0.264	o I	|	|	|	2.82
6.000	0.89	0.00	0.270	o I	|	|	|	2.86
6.083	0.94	0.00	0.276	o I	|	|	|	2.90
6.167	0.99	0.00	0.283	o I	|	|	|	2.94
6.250	1.00	0.00	0.289	o I	|	|	|	2.98
6.333	1.00	0.00	0.296	o I	|	|	|	3.02
6.417	1.00	0.00	0.303	o I	|	|	|	3.06
6.500	1.00	0.00	0.310	o I	|	|	|	3.10
6.583	1.05	0.00	0.317	o I	|	|	|	3.14
6.667	1.10	0.00	0.324	o I	|	|	|	3.19
6.750	1.11	0.00	0.332	o I	|	|	|	3.23
6.833	1.11	0.00	0.340	o I	|	|	|	3.28
6.917	1.11	0.00	0.347	o I	|	|	|	3.33
7.000	1.11	0.00	0.355	o I	|	|	|	3.37
7.083	1.11	0.00	0.362	o I	|	|	|	3.42
7.167	1.11	0.00	0.370	o I	|	|	|	3.46
7.250	1.11	0.00	0.378	o I	|	|	|	3.51
7.333	1.16	0.00	0.385	o I	|	|	|	3.56
7.417	1.21	0.00	0.394	o I	|	|	|	3.61
7.500	1.22	0.00	0.402	o I	|	|	|	3.66
7.583	1.27	0.00	0.410	o I	|	|	|	3.71
7.667	1.32	0.00	0.419	o I	|	|	|	3.76
7.750	1.33	0.00	0.428	o I	|	|	|	3.82
7.833	1.38	0.00	0.438	o I	|	|	|	3.87
7.917	1.43	0.00	0.447	o I	|	|	|	3.93
8.000	1.44	0.00	0.457	o I	|	|	|	3.99
8.083	1.55	0.01	0.468	o I	|	|	|	4.04
8.167	1.64	0.01	0.478	o I	|	|	|	4.10
8.250	1.66	0.01	0.490	o I	|	|	|	4.15
8.333	1.67	0.01	0.501	o I	|	|	|	4.21
8.417	1.67	0.01	0.513	o I	|	|	|	4.26
8.500	1.67	0.01	0.524	o I	|	|	|	4.32
8.583	1.72	0.01	0.536	o I	|	|	|	4.37
8.667	1.76	0.01	0.548	o I	|	|	|	4.43
8.750	1.77	0.01	0.560	o I	|	|	|	4.49

8.833	1.83	0.01	0.572	O	|	I |	|	|	4.55
8.917	1.88	0.01	0.585	O	|	I |	|	|	4.61
9.000	1.88	0.01	0.598	O	|	I |	|	|	4.68
9.083	1.99	0.01	0.611	O	|	I |	|	|	4.74
9.167	2.08	0.01	0.625	O	|	I|	|	|	4.81
9.250	2.10	0.01	0.639	O	|	I|	|	|	4.88
9.333	2.16	0.01	0.654	O	|	I |	|	|	4.95
9.417	2.21	0.01	0.669	O	|	I |	|	|	5.02
9.500	2.22	0.02	0.684	O	|	I |	|	|	5.08
9.583	2.27	0.03	0.700	O	|	|I |	|	|	5.14
9.667	2.32	0.04	0.715	O	|	|I |	|	|	5.21
9.750	2.33	0.05	0.731	O	|	|I |	|	|	5.27
9.833	2.38	0.06	0.747	O	|	|I |	|	|	5.34
9.917	2.43	0.07	0.763	O	|	| I |	|	|	5.40
10.000	2.44	0.08	0.779	O	|	| I |	|	|	5.47
10.083	2.08	0.08	0.794	O	|	I|	|	|	5.53
10.167	1.76	0.09	0.807	O	|	I |	|	|	5.58
10.250	1.69	0.10	0.818	O	| I	|	|	|	5.62
10.333	1.67	0.10	0.829	O	| I	|	|	|	5.67
10.417	1.67	0.11	0.840	O	| I	|	|	|	5.71
10.500	1.67	0.12	0.850	O	| I	|	|	|	5.75
10.583	1.92	0.12	0.862	O	|	I |	|	|	5.80
10.667	2.16	0.13	0.875	O	|	I |	|	|	5.85
10.750	2.20	0.14	0.889	|O	|	I |	|	|	5.91
10.833	2.22	0.15	0.903	|O	|	I |	|	|	5.97
10.917	2.22	0.16	0.918	|O	|	I |	|	|	6.02
11.000	2.22	0.16	0.932	|O	|	I |	|	|	6.07
11.083	2.17	0.17	0.946	|O	|	I |	|	|	6.12
11.167	2.12	0.17	0.959	|O	|	I|	|	|	6.17
11.250	2.11	0.18	0.973	|O	|	I|	|	|	6.21
11.333	2.11	0.18	0.986	|O	|	I|	|	|	6.26
11.417	2.11	0.19	0.999	|O	|	I|	|	|	6.30
11.500	2.11	0.19	1.013	|O	|	I|	|	|	6.35
11.583	2.01	0.20	1.025	|O	|	I|	|	|	6.39
11.667	1.91	0.20	1.037	|O	|	I |	|	|	6.43
11.750	1.90	0.21	1.049	|O	|	I |	|	|	6.47
11.833	1.94	0.21	1.061	|O	|	I |	|	|	6.52
11.917	1.99	0.22	1.073	|O	|	I |	|	|	6.56
12.000	2.00	0.22	1.085	|O	|	I |	|	|	6.60
12.083	2.36	0.23	1.099	|O	|	|I |	|	|	6.64
12.167	2.69	0.23	1.114	|O	|	| I |	|	|	6.70
12.250	2.75	0.24	1.132	|O	|	| I |	|	|	6.76
12.333	2.83	0.25	1.149	|O	|	| I |	|	|	6.82
12.417	2.87	0.25	1.167	|O	|	| I |	|	|	6.88
12.500	2.88	0.26	1.185	|O	|	| I |	|	|	6.94
12.583	2.99	0.27	1.203	| O	|	| I |	|	|	7.00
12.667	3.09	0.30	1.222	| O	|	| I|	|	|	7.06
12.750	3.11	0.32	1.242	| O	|	| I|	|	|	7.12
12.833	3.21	0.35	1.261	| O	|	| I |	|	|	7.18
12.917	3.30	0.38	1.281	| O	|	| I |	|	|	7.24
13.000	3.32	0.41	1.301	| O	|	| I |	|	|	7.30
13.083	3.75	0.44	1.322	| O	|	| | I |	|	|	7.36
13.167	4.14	0.48	1.346	| O	|	| | I |	|	|	7.43
13.250	4.22	0.51	1.372	| O	|	| | I|	|	|	7.51
13.333	4.26	0.55	1.397	| O	|	| | I|	|	|	7.58
13.417	4.27	0.59	1.423	| O	|	| | I|	|	|	7.66
13.500	4.28	0.62	1.448	| O	|	| | I	|	|	7.73
13.583	3.48	0.65	1.470	| O	|	| | I |	|	|	7.80
13.667	2.75	0.69	1.487	| O	|	| I |	|	|	7.85
13.750	2.61	1.48	1.498	|	| O | I |	|	|	7.86
13.833	2.55	1.92	1.504	|	| O | I |	|	|	7.87
13.917	2.55	2.17	1.508	|	| O | I |	|	|	7.87
14.000	2.55	2.32	1.510	|	|O I |	|	|	7.88
14.083	2.80	2.46	1.512	|	| O I |	|	|	7.88
14.167	3.04	2.64	1.514	|	| O I |	|	|	7.88
14.250	3.09	2.81	1.517	|	| O I|	|	|	7.88
14.333	3.03	2.91	1.518	|	| OI |	|	|	7.89
14.417	2.96	2.94	1.519	|	| O |	|	|	7.89
14.500	2.96	2.95	1.519	|	| O |	|	|	7.89
14.583	2.96	2.95	1.519	|	| O |	|	|	7.89
14.667	2.97	2.96	1.519	|	| O |	|	|	7.89
14.750	2.98	2.96	1.519	|	| O |	|	|	7.89
14.833	2.90	2.96	1.519	|	| IO |	|	|	7.89
14.917	2.84	2.92	1.518	|	| O |	|	|	7.89
15.000	2.83	2.89	1.518	|	| O |	|	|	7.88
15.083	2.75	2.85	1.517	|	| IO |	|	|	7.88
15.167	2.69	2.80	1.517	|	| O |	|	|	7.88
15.250	2.68	2.75	1.516	|	| O |	|	|	7.88
15.333	2.62	2.71	1.515	|	| IO |	|	|	7.88
15.417	2.57	2.66	1.515	|	| O |	|	|	7.88
15.500	2.56	2.62	1.514	|	| O |	|	|	7.88
15.583	2.35	2.56	1.513	|	|I O |	|	|	7.88
15.667	2.16	2.44	1.512	|	| I O |	|	|	7.88
15.750	2.13	2.32	1.510	|	| I|O |	|	|	7.88
15.833	2.11	2.24	1.509	|	| IO |	|	|	7.87
15.917	2.11	2.19	1.508	|	| IO |	|	|	7.87
16.000	2.11	2.16	1.508	|	| IO |	|	|	7.87

16.083	1.34	1.99	1.505	| I O |	|	|	|	7.87
16.167	0.64	1.59	1.500	| I | O |	|	|	|	7.86
16.250	0.50	1.19	1.494	| I O |	|	|	|	7.86
16.333	0.44	0.90	1.490	| I O |	|	|	|	7.85
16.417	0.44	0.72	1.488	| I O |	|	|	|	7.85
16.500	0.44	0.68	1.486	| I O |	|	|	|	7.85
16.583	0.39	0.67	1.484	| I O |	|	|	|	7.84
16.667	0.35	0.67	1.482	| I O |	|	|	|	7.84
16.750	0.34	0.67	1.480	| I O |	|	|	|	7.83
16.833	0.33	0.66	1.477	| I O |	|	|	|	7.82
16.917	0.33	0.66	1.475	| I O |	|	|	|	7.81
17.000	0.33	0.66	1.473	| I O |	|	|	|	7.81
17.083	0.44	0.66	1.471	| IO |	|	|	|	7.80
17.167	0.53	0.65	1.470	| IO |	|	|	|	7.80
17.250	0.55	0.65	1.469	| O |	|	|	|	7.80
17.333	0.56	0.65	1.468	| O |	|	|	|	7.79
17.417	0.56	0.65	1.468	| O |	|	|	|	7.79
17.500	0.56	0.65	1.467	| O |	|	|	|	7.79
17.583	0.56	0.65	1.466	| O |	|	|	|	7.79
17.667	0.56	0.65	1.466	| O |	|	|	|	7.79
17.750	0.56	0.65	1.465	| O |	|	|	|	7.78
17.833	0.50	0.65	1.464	| IO |	|	|	|	7.78
17.917	0.46	0.64	1.463	| IO |	|	|	|	7.78
18.000	0.45	0.64	1.462	| IO |	|	|	|	7.78
18.083	0.44	0.64	1.461	| IO |	|	|	|	7.77
18.167	0.44	0.64	1.459	| IO |	|	|	|	7.77
18.250	0.44	0.64	1.458	| IO |	|	|	|	7.76
18.333	0.44	0.63	1.457	| IO |	|	|	|	7.76
18.417	0.44	0.63	1.455	| IO |	|	|	|	7.76
18.500	0.44	0.63	1.454	| IO |	|	|	|	7.75
18.583	0.39	0.63	1.453	| I O |	|	|	|	7.75
18.667	0.35	0.63	1.451	| I O |	|	|	|	7.74
18.750	0.34	0.62	1.449	| I O |	|	|	|	7.74
18.833	0.28	0.62	1.447	| I O |	|	|	|	7.73
18.917	0.23	0.62	1.444	|I O |	|	|	|	7.72
19.000	0.23	0.61	1.442	|I O |	|	|	|	7.71
19.083	0.27	0.61	1.439	| I O |	|	|	|	7.71
19.167	0.32	0.61	1.437	| I O |	|	|	|	7.70
19.250	0.33	0.60	1.435	| I O |	|	|	|	7.69
19.333	0.38	0.60	1.433	| I O |	|	|	|	7.69
19.417	0.43	0.60	1.432	| IO |	|	|	|	7.69
19.500	0.44	0.60	1.431	| IO |	|	|	|	7.68
19.583	0.39	0.60	1.430	| I O |	|	|	|	7.68
19.667	0.35	0.59	1.428	| I O |	|	|	|	7.67
19.750	0.34	0.59	1.426	| I O |	|	|	|	7.67
19.833	0.28	0.59	1.424	| I O |	|	|	|	7.66
19.917	0.23	0.58	1.422	|I O |	|	|	|	7.66
20.000	0.23	0.58	1.420	|I O |	|	|	|	7.65
20.083	0.27	0.58	1.417	| I O |	|	|	|	7.64
20.167	0.32	0.58	1.416	| I O |	|	|	|	7.64
20.250	0.33	0.57	1.414	| I O |	|	|	|	7.63
20.333	0.33	0.57	1.412	| I O |	|	|	|	7.63
20.417	0.33	0.57	1.411	| I O |	|	|	|	7.62
20.500	0.33	0.57	1.409	| I O |	|	|	|	7.62
20.583	0.33	0.56	1.407	| I O |	|	|	|	7.61
20.667	0.33	0.56	1.406	| I O |	|	|	|	7.61
20.750	0.33	0.56	1.404	| I O |	|	|	|	7.60
20.833	0.28	0.56	1.403	| I O |	|	|	|	7.60
20.917	0.23	0.55	1.400	|I O |	|	|	|	7.59
21.000	0.23	0.55	1.398	|I O |	|	|	|	7.59
21.083	0.27	0.55	1.396	| I O |	|	|	|	7.58
21.167	0.32	0.54	1.394	| I O |	|	|	|	7.57
21.250	0.33	0.54	1.393	| I O |	|	|	|	7.57
21.333	0.28	0.54	1.391	| I O |	|	|	|	7.56
21.417	0.23	0.54	1.389	|I O |	|	|	|	7.56
21.500	0.23	0.53	1.387	|I O |	|	|	|	7.55
21.583	0.27	0.53	1.385	| IO |	|	|	|	7.55
21.667	0.32	0.53	1.384	| IO |	|	|	|	7.54
21.750	0.33	0.53	1.382	| IO |	|	|	|	7.54
21.833	0.28	0.53	1.381	| IO |	|	|	|	7.53
21.917	0.23	0.52	1.379	|I O |	|	|	|	7.53
22.000	0.23	0.52	1.377	|I O |	|	|	|	7.52
22.083	0.27	0.52	1.375	| IO |	|	|	|	7.52
22.167	0.32	0.51	1.374	| IO |	|	|	|	7.51
22.250	0.33	0.51	1.372	| IO |	|	|	|	7.51
22.333	0.28	0.51	1.371	| IO |	|	|	|	7.50
22.417	0.23	0.51	1.369	|I O |	|	|	|	7.50
22.500	0.23	0.51	1.367	|I O |	|	|	|	7.49
22.583	0.22	0.50	1.365	|I O |	|	|	|	7.49
22.667	0.22	0.50	1.363	|I O |	|	|	|	7.48
22.750	0.22	0.50	1.362	|I O |	|	|	|	7.48
22.833	0.22	0.49	1.360	|I O |	|	|	|	7.47
22.917	0.22	0.49	1.358	|I O |	|	|	|	7.46
23.000	0.22	0.49	1.356	|I O |	|	|	|	7.46
23.083	0.22	0.49	1.354	|I O |	|	|	|	7.45
23.167	0.22	0.48	1.352	|I O |	|	|	|	7.45
23.250	0.22	0.48	1.350	|I O |	|	|	|	7.44

23.333	0.22	0.48	1.349	|I O	|	|	|	7.44
23.417	0.22	0.48	1.347	|I O	|	|	|	7.43
23.500	0.22	0.47	1.345	|I O	|	|	|	7.43
23.583	0.22	0.47	1.343	|I O	|	|	|	7.42
23.667	0.22	0.47	1.342	|I O	|	|	|	7.42
23.750	0.22	0.47	1.340	|I O	|	|	|	7.41
23.833	0.22	0.46	1.338	|I O	|	|	|	7.41
23.917	0.22	0.46	1.337	|I O	|	|	|	7.40
24.000	0.22	0.46	1.335	|I O	|	|	|	7.40
24.083	0.12	0.46	1.333	I O	|	|	|	7.39
24.167	0.03	0.45	1.330	I O	|	|	|	7.38
24.250	0.01	0.45	1.327	I O	|	|	|	7.37
24.333	0.00	0.44	1.324	I O	|	|	|	7.37
24.417	0.00	0.44	1.321	I O	|	|	|	7.36
24.500	0.00	0.44	1.318	I O	|	|	|	7.35
24.583	0.00	0.43	1.315	I O	|	|	|	7.34
24.667	0.00	0.43	1.312	I O	|	|	|	7.33
24.750	0.00	0.42	1.310	I O	|	|	|	7.32
24.833	0.00	0.42	1.307	I O	|	|	|	7.31
24.917	0.00	0.41	1.304	I O	|	|	|	7.30
25.000	0.00	0.41	1.301	I O	|	|	|	7.29
25.083	0.00	0.41	1.298	I O	|	|	|	7.29
25.167	0.00	0.40	1.295	I O	|	|	|	7.28
25.250	0.00	0.40	1.293	I O	|	|	|	7.27
25.333	0.00	0.39	1.290	I O	|	|	|	7.26
25.417	0.00	0.39	1.287	I O	|	|	|	7.25
25.500	0.00	0.39	1.284	I O	|	|	|	7.25
25.583	0.00	0.38	1.282	I O	|	|	|	7.24
25.667	0.00	0.38	1.279	I O	|	|	|	7.23
25.750	0.00	0.38	1.277	I O	|	|	|	7.22
25.833	0.00	0.37	1.274	I O	|	|	|	7.21
25.917	0.00	0.37	1.271	I O	|	|	|	7.21
26.000	0.00	0.36	1.269	I O	|	|	|	7.20
26.083	0.00	0.36	1.266	I O	|	|	|	7.19
26.167	0.00	0.36	1.264	I O	|	|	|	7.18
26.250	0.00	0.35	1.262	I O	|	|	|	7.18
26.333	0.00	0.35	1.259	I O	|	|	|	7.17
26.417	0.00	0.35	1.257	I O	|	|	|	7.16
26.500	0.00	0.34	1.254	I O	|	|	|	7.16
26.583	0.00	0.34	1.252	I O	|	|	|	7.15
26.667	0.00	0.34	1.250	I O	|	|	|	7.14
26.750	0.00	0.33	1.247	I O	|	|	|	7.14
26.833	0.00	0.33	1.245	I O	|	|	|	7.13
26.917	0.00	0.33	1.243	I O	|	|	|	7.12
27.000	0.00	0.32	1.241	I O	|	|	|	7.11
27.083	0.00	0.32	1.238	I O	|	|	|	7.11
27.167	0.00	0.32	1.236	I O	|	|	|	7.10
27.250	0.00	0.31	1.234	I O	|	|	|	7.10
27.333	0.00	0.31	1.232	I O	|	|	|	7.09
27.417	0.00	0.31	1.230	I O	|	|	|	7.08
27.500	0.00	0.30	1.228	I O	|	|	|	7.08
27.583	0.00	0.30	1.225	I O	|	|	|	7.07
27.667	0.00	0.30	1.223	I O	|	|	|	7.06
27.750	0.00	0.30	1.221	I O	|	|	|	7.06
27.833	0.00	0.29	1.219	I O	|	|	|	7.05
27.917	0.00	0.29	1.217	I O	|	|	|	7.05
28.000	0.00	0.29	1.215	I O	|	|	|	7.04
28.083	0.00	0.28	1.213	I O	|	|	|	7.03
28.167	0.00	0.28	1.211	I O	|	|	|	7.03
28.250	0.00	0.28	1.209	I O	|	|	|	7.02
28.333	0.00	0.28	1.208	I O	|	|	|	7.02
28.417	0.00	0.27	1.206	I O	|	|	|	7.01
28.500	0.00	0.27	1.204	I O	|	|	|	7.01
28.583	0.00	0.27	1.202	I O	|	|	|	7.00
28.667	0.00	0.27	1.200	IO	|	|	|	6.99
28.750	0.00	0.27	1.198	IO	|	|	|	6.99
28.833	0.00	0.27	1.196	IO	|	|	|	6.98
28.917	0.00	0.27	1.195	IO	|	|	|	6.97
29.000	0.00	0.26	1.193	IO	|	|	|	6.97
29.083	0.00	0.26	1.191	IO	|	|	|	6.96
29.167	0.00	0.26	1.189	IO	|	|	|	6.96
29.250	0.00	0.26	1.187	IO	|	|	|	6.95
29.333	0.00	0.26	1.186	IO	|	|	|	6.94
29.417	0.00	0.26	1.184	IO	|	|	|	6.94
29.500	0.00	0.26	1.182	IO	|	|	|	6.93
29.583	0.00	0.26	1.180	IO	|	|	|	6.92
29.667	0.00	0.26	1.178	IO	|	|	|	6.92
29.750	0.00	0.26	1.177	IO	|	|	|	6.91
29.833	0.00	0.26	1.175	IO	|	|	|	6.91
29.917	0.00	0.26	1.173	IO	|	|	|	6.90
30.000	0.00	0.26	1.171	IO	|	|	|	6.89
30.083	0.00	0.26	1.170	IO	|	|	|	6.89
30.167	0.00	0.25	1.168	IO	|	|	|	6.88
30.250	0.00	0.25	1.166	IO	|	|	|	6.88
30.333	0.00	0.25	1.164	IO	|	|	|	6.87
30.417	0.00	0.25	1.163	IO	|	|	|	6.86
30.500	0.00	0.25	1.161	IO	|	|	|	6.86

30.583	0.00	0.25	1.159	IO				6.85
30.667	0.00	0.25	1.157	IO				6.85
30.750	0.00	0.25	1.156	IO				6.84
30.833	0.00	0.25	1.154	IO				6.83
30.917	0.00	0.25	1.152	IO				6.83
31.000	0.00	0.25	1.150	IO				6.82
31.083	0.00	0.25	1.149	IO				6.82
31.167	0.00	0.25	1.147	IO				6.81
31.250	0.00	0.25	1.145	IO				6.81
31.333	0.00	0.25	1.144	IO				6.80
31.417	0.00	0.24	1.142	IO				6.79
31.500	0.00	0.24	1.140	IO				6.79
31.583	0.00	0.24	1.139	IO				6.78
31.667	0.00	0.24	1.137	IO				6.78
31.750	0.00	0.24	1.135	IO				6.77
31.833	0.00	0.24	1.134	IO				6.77
31.917	0.00	0.24	1.132	IO				6.76
32.000	0.00	0.24	1.130	IO				6.75
32.083	0.00	0.24	1.129	IO				6.75
32.167	0.00	0.24	1.127	IO				6.74
32.250	0.00	0.24	1.125	IO				6.74
32.333	0.00	0.24	1.124	IO				6.73
32.417	0.00	0.24	1.122	IO				6.73
32.500	0.00	0.24	1.120	IO				6.72
32.583	0.00	0.24	1.119	IO				6.71
32.667	0.00	0.23	1.117	IO				6.71
32.750	0.00	0.23	1.116	IO				6.70
32.833	0.00	0.23	1.114	IO				6.70
32.917	0.00	0.23	1.112	IO				6.69
33.000	0.00	0.23	1.111	IO				6.69
33.083	0.00	0.23	1.109	IO				6.68
33.167	0.00	0.23	1.108	IO				6.68
33.250	0.00	0.23	1.106	IO				6.67
33.333	0.00	0.23	1.104	IO				6.66
33.417	0.00	0.23	1.103	IO				6.66
33.500	0.00	0.23	1.101	IO				6.65
33.583	0.00	0.23	1.100	IO				6.65
33.667	0.00	0.23	1.098	IO				6.64
33.750	0.00	0.23	1.097	IO				6.64
33.833	0.00	0.23	1.095	IO				6.63
33.917	0.00	0.23	1.093	IO				6.63
34.000	0.00	0.22	1.092	IO				6.62
34.083	0.00	0.22	1.090	IO				6.62
34.167	0.00	0.22	1.089	IO				6.61
34.250	0.00	0.22	1.087	IO				6.61
34.333	0.00	0.22	1.086	IO				6.60
34.417	0.00	0.22	1.084	IO				6.60
34.500	0.00	0.22	1.083	IO				6.59
34.583	0.00	0.22	1.081	IO				6.58
34.667	0.00	0.22	1.080	IO				6.58
34.750	0.00	0.22	1.078	IO				6.57
34.833	0.00	0.22	1.077	IO				6.57
34.917	0.00	0.22	1.075	IO				6.56
35.000	0.00	0.22	1.074	IO				6.56
35.083	0.00	0.22	1.072	IO				6.55
35.167	0.00	0.22	1.071	IO				6.55
35.250	0.00	0.22	1.069	IO				6.54
35.333	0.00	0.22	1.068	IO				6.54
35.417	0.00	0.21	1.066	IO				6.53
35.500	0.00	0.21	1.065	IO				6.53
35.583	0.00	0.21	1.063	IO				6.52
35.667	0.00	0.21	1.062	IO				6.52
35.750	0.00	0.21	1.060	IO				6.51
35.833	0.00	0.21	1.059	IO				6.51
35.917	0.00	0.21	1.057	IO				6.50
36.000	0.00	0.21	1.056	IO				6.50
36.083	0.00	0.21	1.054	IO				6.49
36.167	0.00	0.21	1.053	IO				6.49
36.250	0.00	0.21	1.052	IO				6.48
36.333	0.00	0.21	1.050	IO				6.48
36.417	0.00	0.21	1.049	IO				6.47
36.500	0.00	0.21	1.047	IO				6.47
36.583	0.00	0.21	1.046	IO				6.46
36.667	0.00	0.21	1.044	IO				6.46
36.750	0.00	0.21	1.043	IO				6.45
36.833	0.00	0.21	1.042	IO				6.45
36.917	0.00	0.20	1.040	IO				6.44
37.000	0.00	0.20	1.039	IO				6.44
37.083	0.00	0.20	1.037	IO				6.43
37.167	0.00	0.20	1.036	IO				6.43
37.250	0.00	0.20	1.035	IO				6.42
37.333	0.00	0.20	1.033	IO				6.42
37.417	0.00	0.20	1.032	IO				6.42
37.500	0.00	0.20	1.030	IO				6.41
37.583	0.00	0.20	1.029	IO				6.41
37.667	0.00	0.20	1.028	IO				6.40
37.750	0.00	0.20	1.026	IO				6.40

37.833	0.00	0.20	1.025	IO				6.39
37.917	0.00	0.20	1.024	IO				6.39
38.000	0.00	0.20	1.022	IO				6.38
38.083	0.00	0.20	1.021	IO				6.38
38.167	0.00	0.20	1.019	IO				6.37
38.250	0.00	0.20	1.018	IO				6.37
38.333	0.00	0.20	1.017	IO				6.36
38.417	0.00	0.19	1.015	IO				6.36
38.500	0.00	0.19	1.014	IO				6.35
38.583	0.00	0.19	1.013	IO				6.35
38.667	0.00	0.19	1.011	IO				6.35
38.750	0.00	0.19	1.010	IO				6.34
38.833	0.00	0.19	1.009	IO				6.34
38.917	0.00	0.19	1.007	IO				6.33
39.000	0.00	0.19	1.006	IO				6.33
39.083	0.00	0.19	1.005	IO				6.32
39.167	0.00	0.19	1.004	IO				6.32
39.250	0.00	0.19	1.002	IO				6.31
39.333	0.00	0.19	1.001	IO				6.31
39.417	0.00	0.19	1.000	IO				6.30
39.500	0.00	0.19	0.998	IO				6.30
39.583	0.00	0.19	0.997	IO				6.30
39.667	0.00	0.19	0.996	IO				6.29
39.750	0.00	0.19	0.994	IO				6.29
39.833	0.00	0.19	0.993	IO				6.28
39.917	0.00	0.19	0.992	IO				6.28
40.000	0.00	0.19	0.991	IO				6.27
40.083	0.00	0.18	0.989	IO				6.27
40.167	0.00	0.18	0.988	IO				6.26
40.250	0.00	0.18	0.987	IO				6.26
40.333	0.00	0.18	0.986	IO				6.26
40.417	0.00	0.18	0.984	IO				6.25
40.500	0.00	0.18	0.983	IO				6.25
40.583	0.00	0.18	0.982	IO				6.24
40.667	0.00	0.18	0.980	IO				6.24
40.750	0.00	0.18	0.979	IO				6.23
40.833	0.00	0.18	0.978	IO				6.23
40.917	0.00	0.18	0.977	IO				6.23
41.000	0.00	0.18	0.976	IO				6.22
41.083	0.00	0.18	0.974	IO				6.22
41.167	0.00	0.18	0.973	IO				6.21
41.250	0.00	0.18	0.972	IO				6.21
41.333	0.00	0.18	0.971	IO				6.20
41.417	0.00	0.18	0.969	IO				6.20
41.500	0.00	0.18	0.968	IO				6.20
41.583	0.00	0.18	0.967	IO				6.19
41.667	0.00	0.18	0.966	IO				6.19
41.750	0.00	0.17	0.965	IO				6.18
41.833	0.00	0.17	0.963	IO				6.18
41.917	0.00	0.17	0.962	IO				6.18
42.000	0.00	0.17	0.961	IO				6.17
42.083	0.00	0.17	0.960	IO				6.17
42.167	0.00	0.17	0.959	IO				6.16
42.250	0.00	0.17	0.957	IO				6.16
42.333	0.00	0.17	0.956	IO				6.16
42.417	0.00	0.17	0.955	IO				6.15
42.500	0.00	0.17	0.954	IO				6.15
42.583	0.00	0.17	0.953	IO				6.14
42.667	0.00	0.17	0.951	IO				6.14
42.750	0.00	0.17	0.950	IO				6.14
42.833	0.00	0.17	0.949	IO				6.13
42.917	0.00	0.17	0.948	IO				6.13
43.000	0.00	0.17	0.947	IO				6.12
43.083	0.00	0.17	0.946	IO				6.12
43.167	0.00	0.17	0.945	IO				6.12
43.250	0.00	0.17	0.943	IO				6.11
43.333	0.00	0.17	0.942	IO				6.11
43.417	0.00	0.17	0.941	IO				6.10
43.500	0.00	0.17	0.940	IO				6.10
43.583	0.00	0.16	0.939	IO				6.10
43.667	0.00	0.16	0.938	IO				6.09
43.750	0.00	0.16	0.937	IO				6.09
43.833	0.00	0.16	0.935	IO				6.08
43.917	0.00	0.16	0.934	IO				6.08
44.000	0.00	0.16	0.933	IO				6.08
44.083	0.00	0.16	0.932	IO				6.07
44.167	0.00	0.16	0.931	IO				6.07
44.250	0.00	0.16	0.930	IO				6.06
44.333	0.00	0.16	0.929	IO				6.06
44.417	0.00	0.16	0.928	IO				6.06
44.500	0.00	0.16	0.926	IO				6.05
44.583	0.00	0.16	0.925	IO				6.05
44.667	0.00	0.16	0.924	IO				6.05
44.750	0.00	0.16	0.923	IO				6.04
44.833	0.00	0.16	0.922	IO				6.04
44.917	0.00	0.16	0.921	IO				6.03
45.000	0.00	0.16	0.920	IO				6.03

45.083	0.00	0.16	0.919	IO				6.03
45.167	0.00	0.16	0.918	IO				6.02
45.250	0.00	0.16	0.917	IO				6.02
45.333	0.00	0.16	0.916	IO				6.02
45.417	0.00	0.16	0.915	IO				6.01
45.500	0.00	0.15	0.913	IO				6.01
45.583	0.00	0.15	0.912	IO				6.00
45.667	0.00	0.15	0.911	IO				6.00
45.750	0.00	0.15	0.910	IO				6.00
45.833	0.00	0.15	0.909	IO				5.99
45.917	0.00	0.15	0.908	IO				5.99
46.000	0.00	0.15	0.907	IO				5.98
46.083	0.00	0.15	0.906	IO				5.98
46.167	0.00	0.15	0.905	IO				5.98
46.250	0.00	0.15	0.904	IO				5.97
46.333	0.00	0.15	0.903	IO				5.97
46.417	0.00	0.15	0.902	IO				5.96
46.500	0.00	0.15	0.901	IO				5.96
46.583	0.00	0.15	0.900	IO				5.96
46.667	0.00	0.15	0.899	IO				5.95
46.750	0.00	0.15	0.898	IO				5.95
46.833	0.00	0.15	0.897	IO				5.94
46.917	0.00	0.14	0.896	IO				5.94
47.000	0.00	0.14	0.895	IO				5.93
47.083	0.00	0.14	0.894	IO				5.93
47.167	0.00	0.14	0.893	IO				5.93
47.250	0.00	0.14	0.892	IO				5.92
47.333	0.00	0.14	0.891	IO				5.92
47.417	0.00	0.14	0.890	IO				5.91
47.500	0.00	0.14	0.889	IO				5.91
47.583	0.00	0.14	0.888	IO				5.91
47.667	0.00	0.14	0.887	IO				5.90
47.750	0.00	0.14	0.886	IO				5.90
47.833	0.00	0.14	0.885	IO				5.90
47.917	0.00	0.14	0.884	IO				5.89
48.000	0.00	0.14	0.883	IO				5.89
48.083	0.00	0.14	0.882	IO				5.88
48.167	0.00	0.14	0.881	IO				5.88
48.250	0.00	0.14	0.880	IO				5.88
48.333	0.00	0.14	0.880	IO				5.87
48.417	0.00	0.13	0.879	IO				5.87
48.500	0.00	0.13	0.878	IO				5.87
48.583	0.00	0.13	0.877	O				5.86
48.667	0.00	0.13	0.876	O				5.86
48.750	0.00	0.13	0.875	O				5.85
48.833	0.00	0.13	0.874	O				5.85
48.917	0.00	0.13	0.873	O				5.85
49.000	0.00	0.13	0.872	O				5.84
49.083	0.00	0.13	0.871	O				5.84
49.167	0.00	0.13	0.870	O				5.84
49.250	0.00	0.13	0.870	O				5.83
49.333	0.00	0.13	0.869	O				5.83
49.417	0.00	0.13	0.868	O				5.82
49.500	0.00	0.13	0.867	O				5.82
49.583	0.00	0.13	0.866	O				5.82
49.667	0.00	0.13	0.865	O				5.81
49.750	0.00	0.13	0.864	O				5.81
49.833	0.00	0.13	0.863	O				5.81
49.917	0.00	0.12	0.863	O				5.80
50.000	0.00	0.12	0.862	O				5.80
50.083	0.00	0.12	0.861	O				5.80
50.167	0.00	0.12	0.860	O				5.79
50.250	0.00	0.12	0.859	O				5.79
50.333	0.00	0.12	0.858	O				5.79
50.417	0.00	0.12	0.857	O				5.78
50.500	0.00	0.12	0.857	O				5.78
50.583	0.00	0.12	0.856	O				5.78
50.667	0.00	0.12	0.855	O				5.77
50.750	0.00	0.12	0.854	O				5.77
50.833	0.00	0.12	0.853	O				5.77
50.917	0.00	0.12	0.852	O				5.76
51.000	0.00	0.12	0.852	O				5.76
51.083	0.00	0.12	0.851	O				5.76
51.167	0.00	0.12	0.850	O				5.75
51.250	0.00	0.12	0.849	O				5.75
51.333	0.00	0.12	0.848	O				5.75
51.417	0.00	0.12	0.848	O				5.74
51.500	0.00	0.12	0.847	O				5.74
51.583	0.00	0.12	0.846	O				5.74
51.667	0.00	0.11	0.845	O				5.73
51.750	0.00	0.11	0.844	O				5.73
51.833	0.00	0.11	0.844	O				5.73
51.917	0.00	0.11	0.843	O				5.72
52.000	0.00	0.11	0.842	O				5.72
52.083	0.00	0.11	0.841	O				5.72
52.167	0.00	0.11	0.841	O				5.71
52.250	0.00	0.11	0.840	O				5.71

```
52.333    0.00    0.11      0.839  o       |       |       |       |     5.71
52.417    0.00    0.11      0.838  o       |       |       |       |     5.71
52.500    0.00    0.11      0.837  o       |       |       |       |     5.70
52.583    0.00    0.11      0.837  o       |       |       |       |     5.70
52.667    0.00    0.11      0.836  o       |       |       |       |     5.70
52.750    0.00    0.11      0.835  o       |       |       |       |     5.69
52.833    0.00    0.11      0.834  o       |       |       |       |     5.69
52.917    0.00    0.11      0.834  o       |       |       |       |     5.69
53.000    0.00    0.11      0.833  o       |       |       |       |     5.68
53.083    0.00    0.11      0.832  o       |       |       |       |     5.68
53.167    0.00    0.11      0.832  o       |       |       |       |     5.68
53.250    0.00    0.11      0.831  o       |       |       |       |     5.68
53.333    0.00    0.11      0.830  o       |       |       |       |     5.67
53.417    0.00    0.11      0.829  o       |       |       |       |     5.67
53.500    0.00    0.10      0.829  o       |       |       |       |     5.67
53.583    0.00    0.10      0.828  o       |       |       |       |     5.66
53.667    0.00    0.10      0.827  o       |       |       |       |     5.66
53.750    0.00    0.10      0.826  o       |       |       |       |     5.66
53.833    0.00    0.10      0.826  o       |       |       |       |     5.65
53.917    0.00    0.10      0.825  o       |       |       |       |     5.65
54.000    0.00    0.10      0.824  o       |       |       |       |     5.65
54.083    0.00    0.10      0.824  o       |       |       |       |     5.65
54.167    0.00    0.10      0.823  o       |       |       |       |     5.64
54.250    0.00    0.10      0.822  o       |       |       |       |     5.64
54.333    0.00    0.10      0.822  o       |       |       |       |     5.64
54.417    0.00    0.10      0.821  o       |       |       |       |     5.64

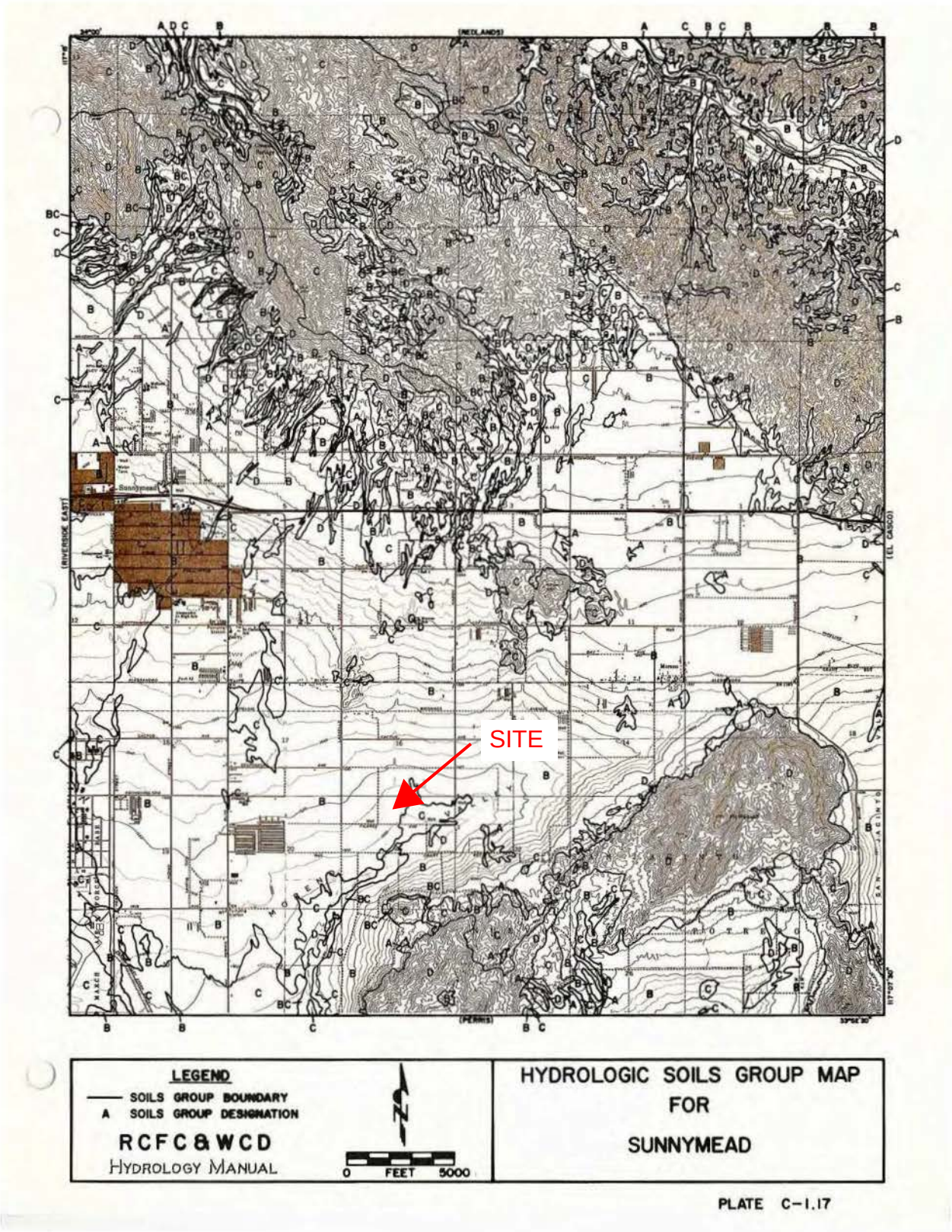
 Remaining water in basin =    0.82 (Ac.Ft)

 ****************************HYDROGRAPH DATA****************************
               Number of intervals =   653
               Time interval =    5.0 (Min.)
               Maximum/Peak flow rate =        2.965 (CFS)
               Total volume =       1.503 (Ac.Ft)
        Status of hydrographs being held in storage
                  Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
        Peak (CFS)      0.000     0.000     0.000     0.000     0.000
        Vol (Ac.Ft)     0.000     0.000     0.000     0.000     0.000
 ***********************************************************************

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Section 6

Riverside County Plates


SITE
LEGEND
SOILS GROUP BOUNDARY
A SOILS GROUP DESIGNATION
RCFC&WCD
HYDROLOGY MANUAL
0 FEET 5000
HYDROLOGIC SOILS GROUP MAP
FOR
SUNNYMEAD
PLATE C-1.17

B TYPE

RUNOFF INDEX NUMBERS OF HYDROLOGIC SOIL-COVER COMPLEXES FOR PERVIOUS AREAS-AMC II

Cover Type (3)	Quality of Cover (2)	Soil Group A	B	C	D
NATURAL COVERS -					
Barren (Rockland, eroded and graded land)		78	86	91	93
Chaparrel, Broadleaf (Manzonita, ceanothus and scrub oak)	Poor	53	70	80	85
	Fair	40	63	75	81
	Good	31	57	71	78
Chaparrel, Narrowleaf (Chamise and redshank)	Poor	71	82	88	91
	Fair	55	72	81	86
Grass, Annual or Perennial	Poor	67	78	86	89
	Fair	50	69	79	84
	Good	38	61	74	80
Meadows or Cienegas (Areas with seasonally high water table, principal vegetation is sod forming grass)	Poor	63	77	85	88
	Fair	51	70	80	84
	Good	30	58	72	78
Open Brush (Soft wood shrubs - buckwheat, sage, etc.)	Poor	62	76	84	88
	Fair	46	66	77	83
	Good	41	63	75	81
Woodland (Coniferous or broadleaf trees predominate. Canopy density is at least 50 percent)	Poor	45	66	77	83
	Fair	36	60	73	79
	Good	28	55	70	77
Woodland, Grass (Coniferous or broadleaf trees with canopy density from 20 to 50 percent)	Poor	57	73	82	86
	Fair	44	65	77	82
	Good	33	58	72	79
URBAN COVERS -					
Residential or Commercial Landscaping (Lawn, shrubs, etc.)	Good	32	56	69	75
Turf (Irrigated and mowed grass)	Poor	58	74	83	87
	Fair	44	65	77	82
	Good	33	58	72	79
AGRICULTURAL COVERS -					
Fallow (Land plowed but not tilled or seeded)		76	85	90	92

RCFC & WCD
HYDROLOGY MANUAL

RUNOFF INDEX NUMBERS FOR PERVIOUS AREA

PLATE D-5.5 (1 of 2)

ACTUAL IMPERVIOUS COVER

Land Use (1)	Range-Percent	Recommended Value For Average Conditions-Percent(2)
Natural or Agriculture	0 - 10	0
Single Family Residential: (3)		
40,000 S. F. (1 Acre) Lots	10 - 25	20
20,000 S. F. (½ Acre) Lots	30 - 45	40
7,200 - 10,000 S. F. Lots	45 - 55	50
Multiple Family Residential:		
Condominiums	45 - 70	65
Apartments	65 - 90	80
Mobile Home Park	60 - 85	75
Commercial, Downtown Business or Industrial	80 -100	90

Notes:

1. Land use should be based on ultimate development of the watershed. Long range master plans for the County and incorporated cities should be reviewed to insure reasonable land use assumptions.

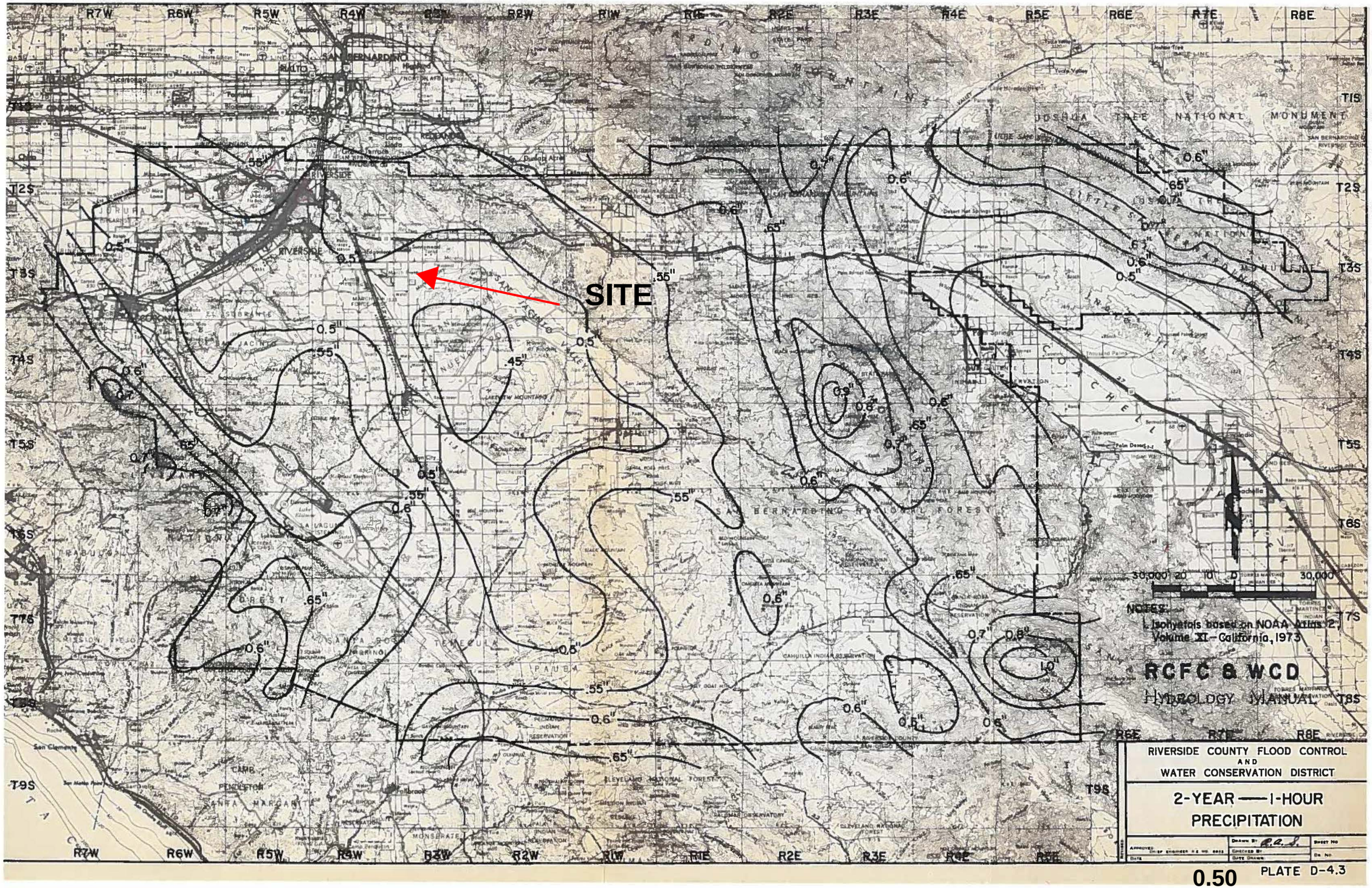
2. Recommended values are based on average conditions which may not apply to a particular study area. The percentage impervious may vary greatly even on comparable sized lots due to differences in dwelling size, improvements, etc. Landscape practices should also be considered as it is common in some areas to use ornamental gravels underlain by impervious plastic materials in place of lawns and shrubs. A field investigation of a study area should always be made, and a review of aerial photos, where available may assist in estimating the percentage of impervious cover in developed areas.

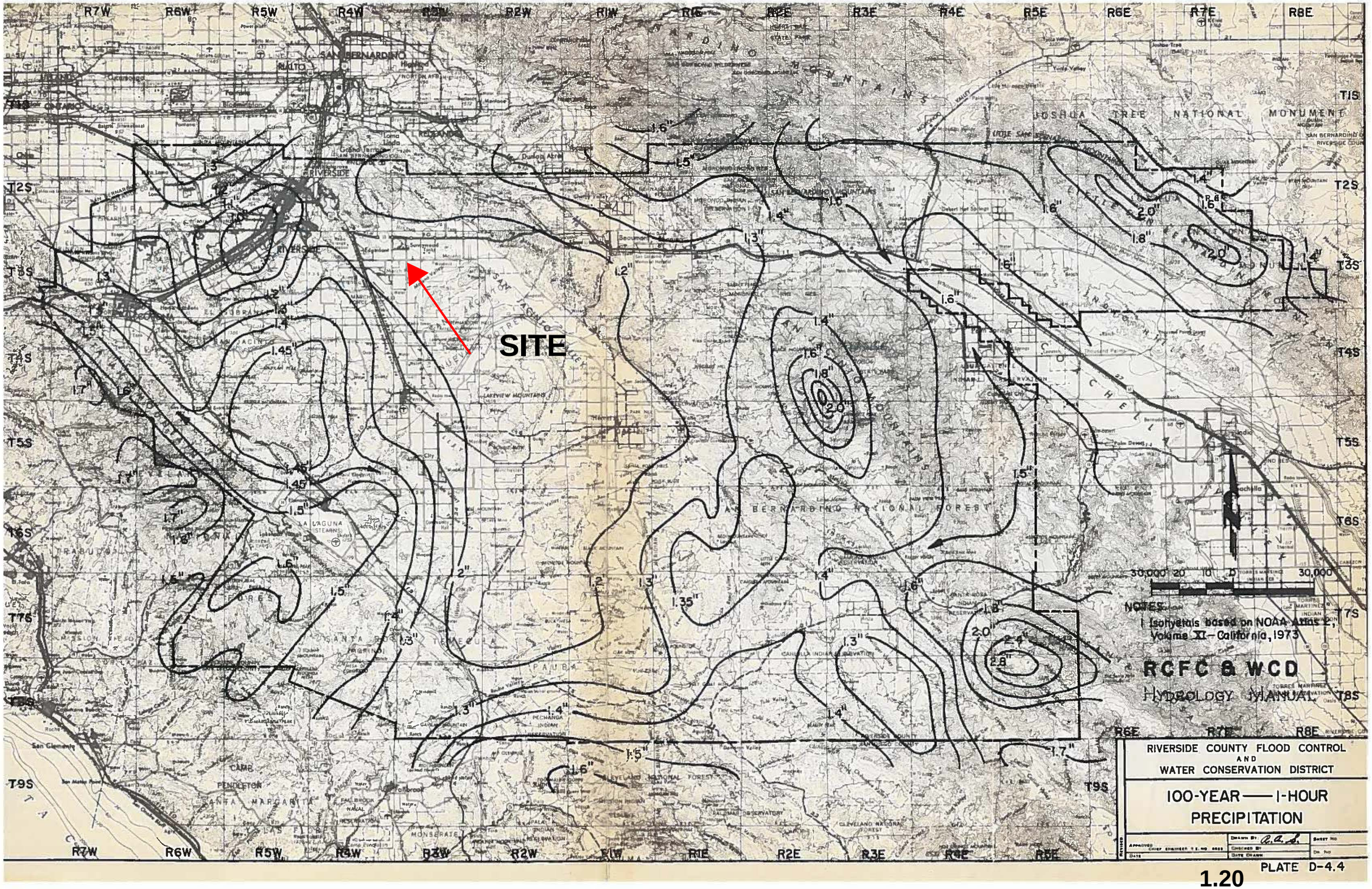
3. For typical horse ranch subdivisions increase impervious area 5 percent over the values recommended in the table above.

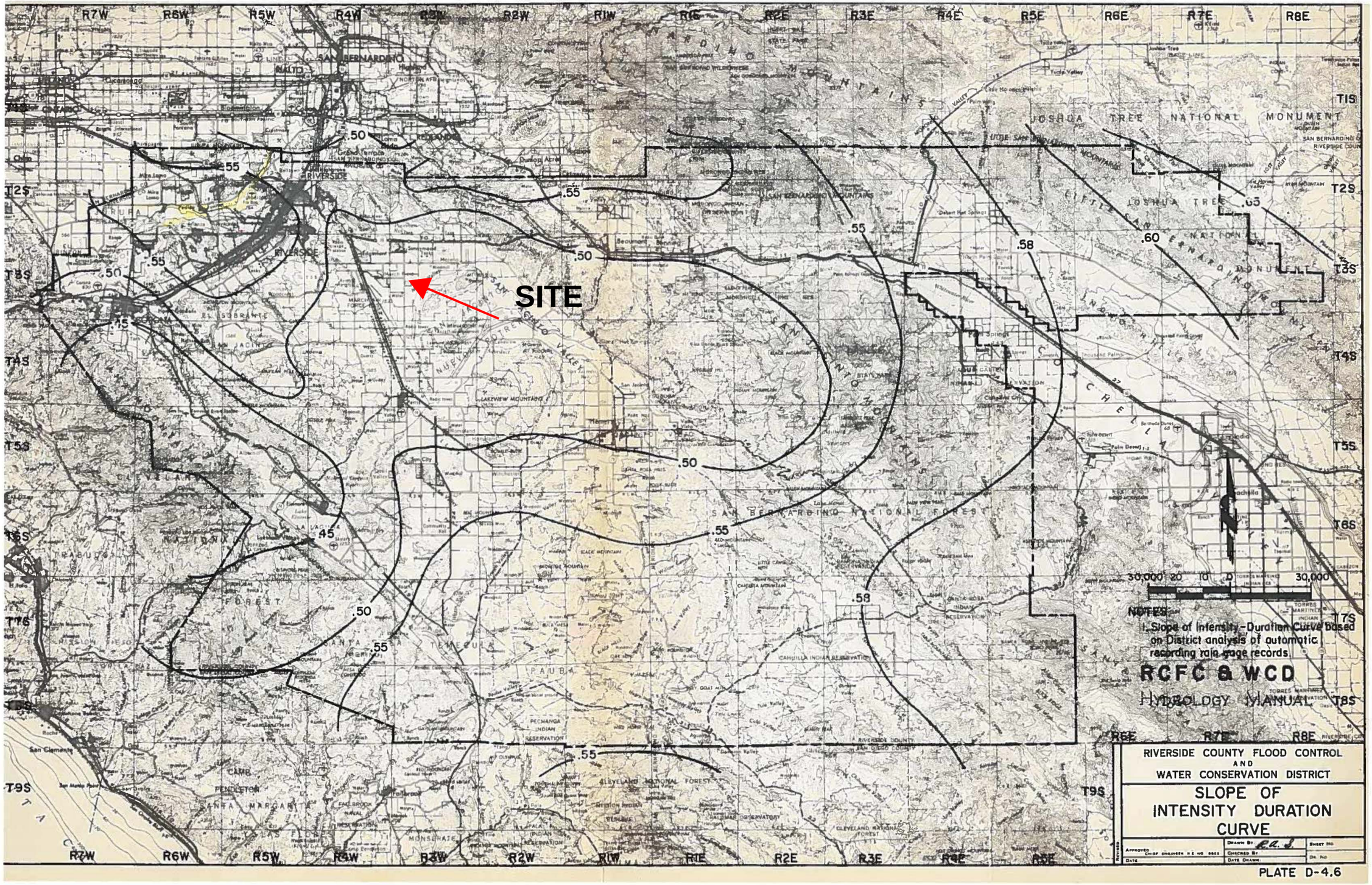
RCFC & WCD
HYDROLOGY MANUAL

IMPERVIOUS COVER FOR DEVELOPED AREAS

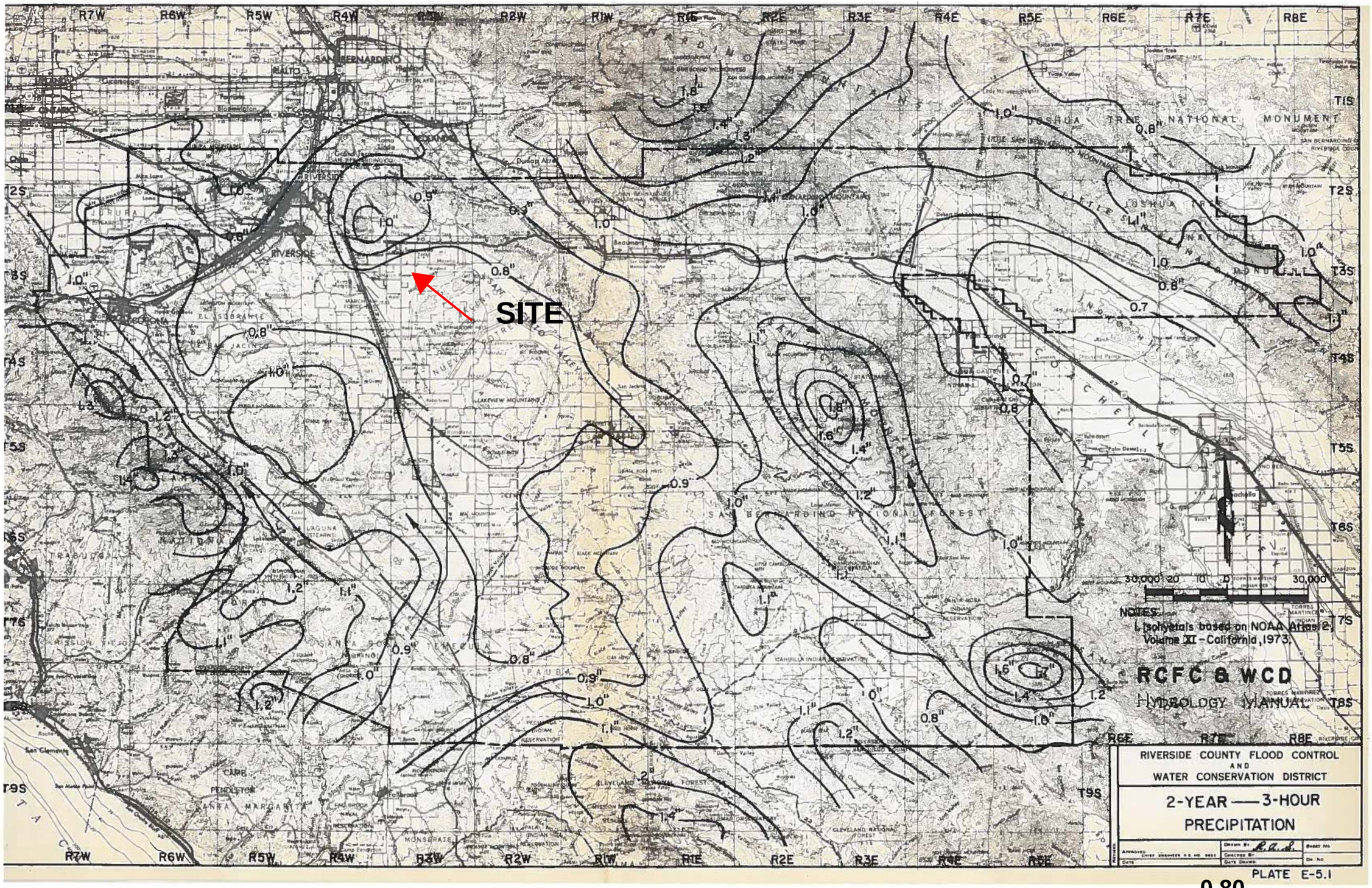
PLATE D-5.6


SITE
NOTES:
1. Isohyetals based on NOAA Atlas 2, Volume XI – California, 1973
RCFC & WCD
HYDROLOGY MANUAL
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
2-YEAR — 1-HOUR PRECIPITATION
PLATE D-4.3
0.50

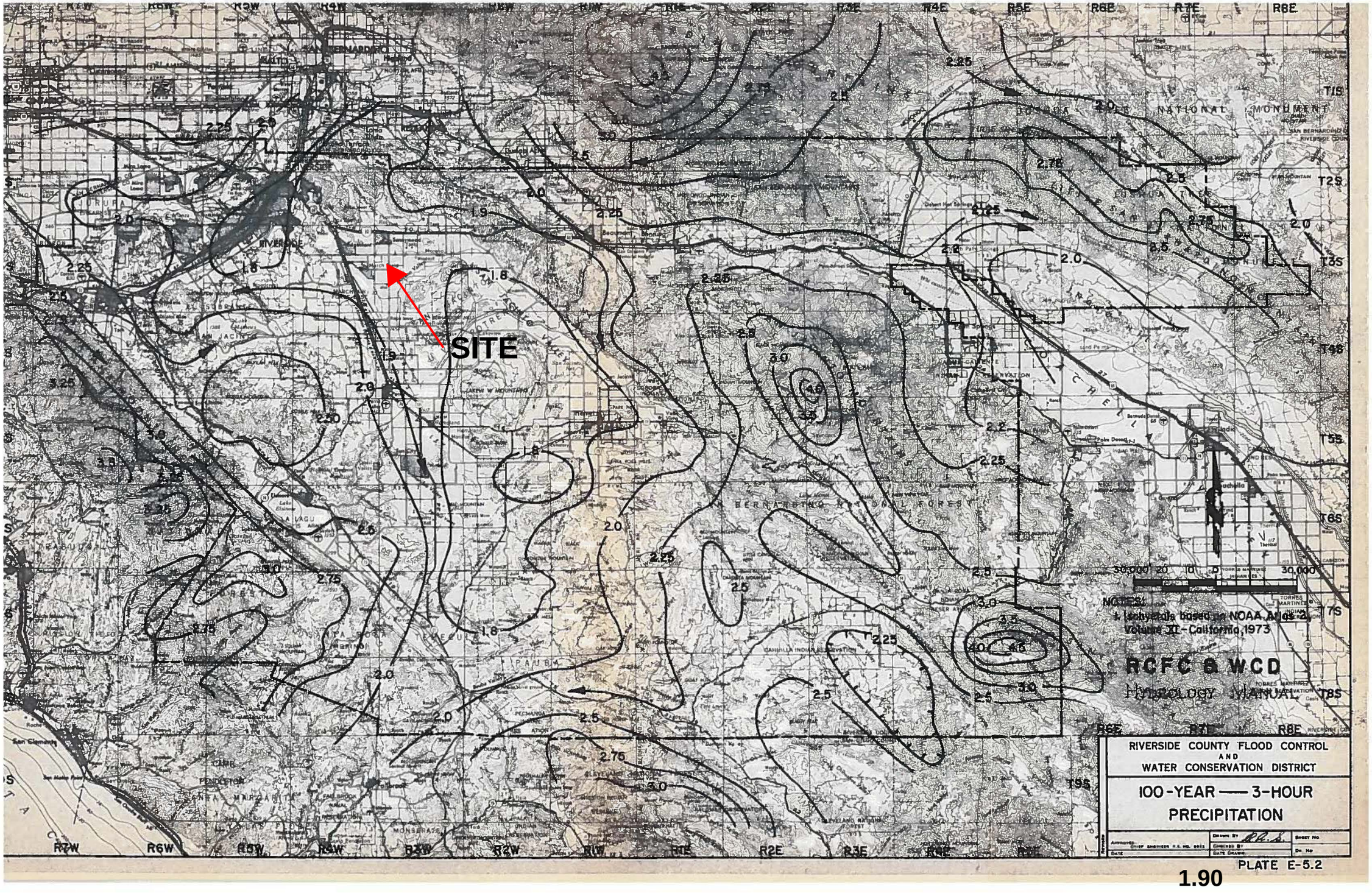

SITE
1.20
NOTES
1. Isohyetals based on NOAA Atlas 2, Volume XI – California, 1973
RCFC & WCD
HYDROLOGY MANUAL
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
100-YEAR — 1-HOUR PRECIPITATION
PLATE D-4.4


SITE
.50
.55
.45
.58
.60
.63
.15
NOTES
1. Slope of Intensity-Duration Curve Based on District analysis of automatic recording rain gage records.
RCFC & WCD
HYDROLOGY MANUAL
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
SLOPE OF INTENSITY DURATION CURVE
PLATE D-4.6

0.50

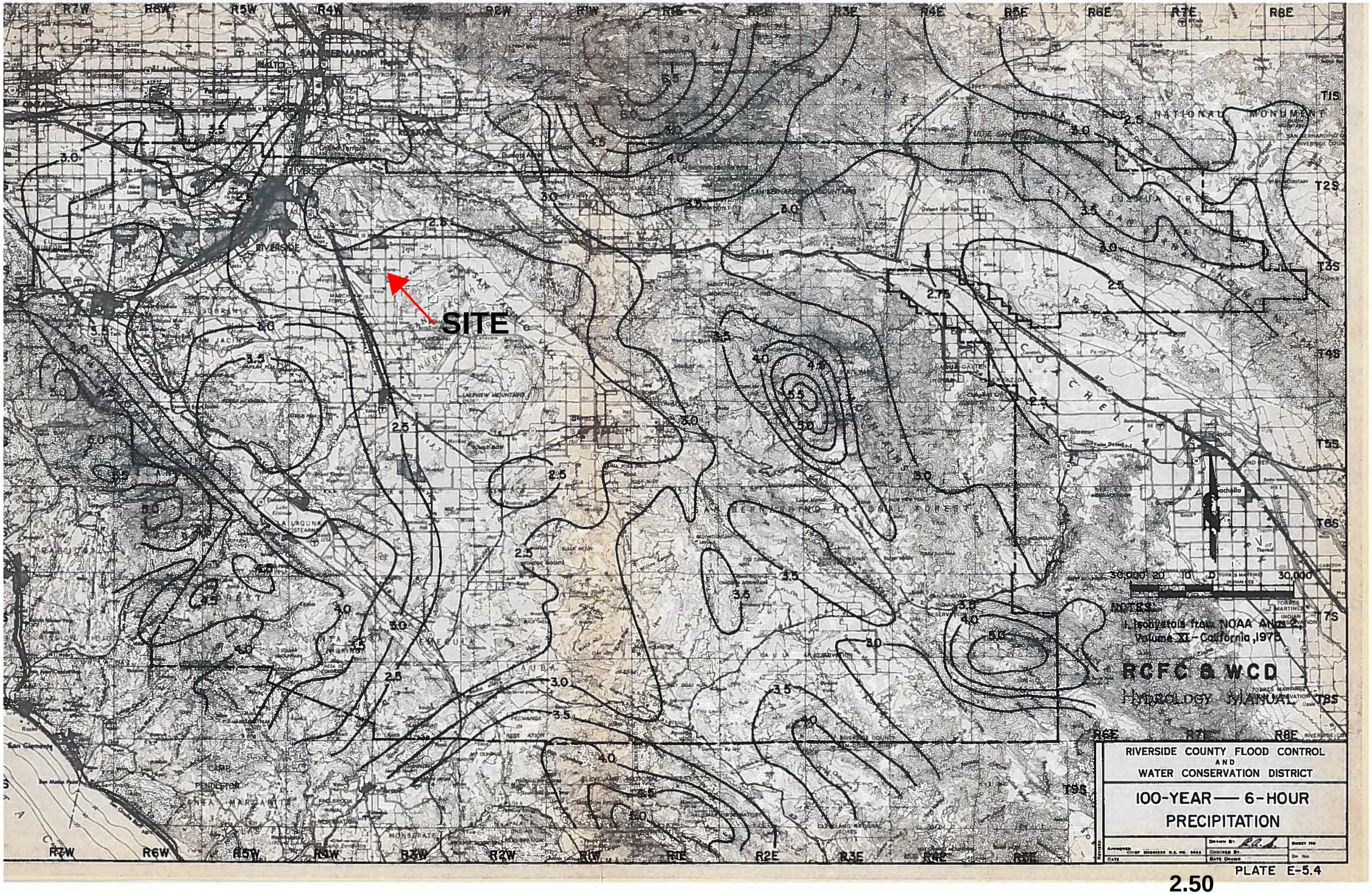

SITE
NOTES:
1. Isohyetals based on NOAA Atlas 2, Volume XI - California, 1973.
RCFC & WCD
HYDROLOGY MANUAL
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
2-YEAR — 3-HOUR PRECIPITATION
PLATE E-5.1

0.80

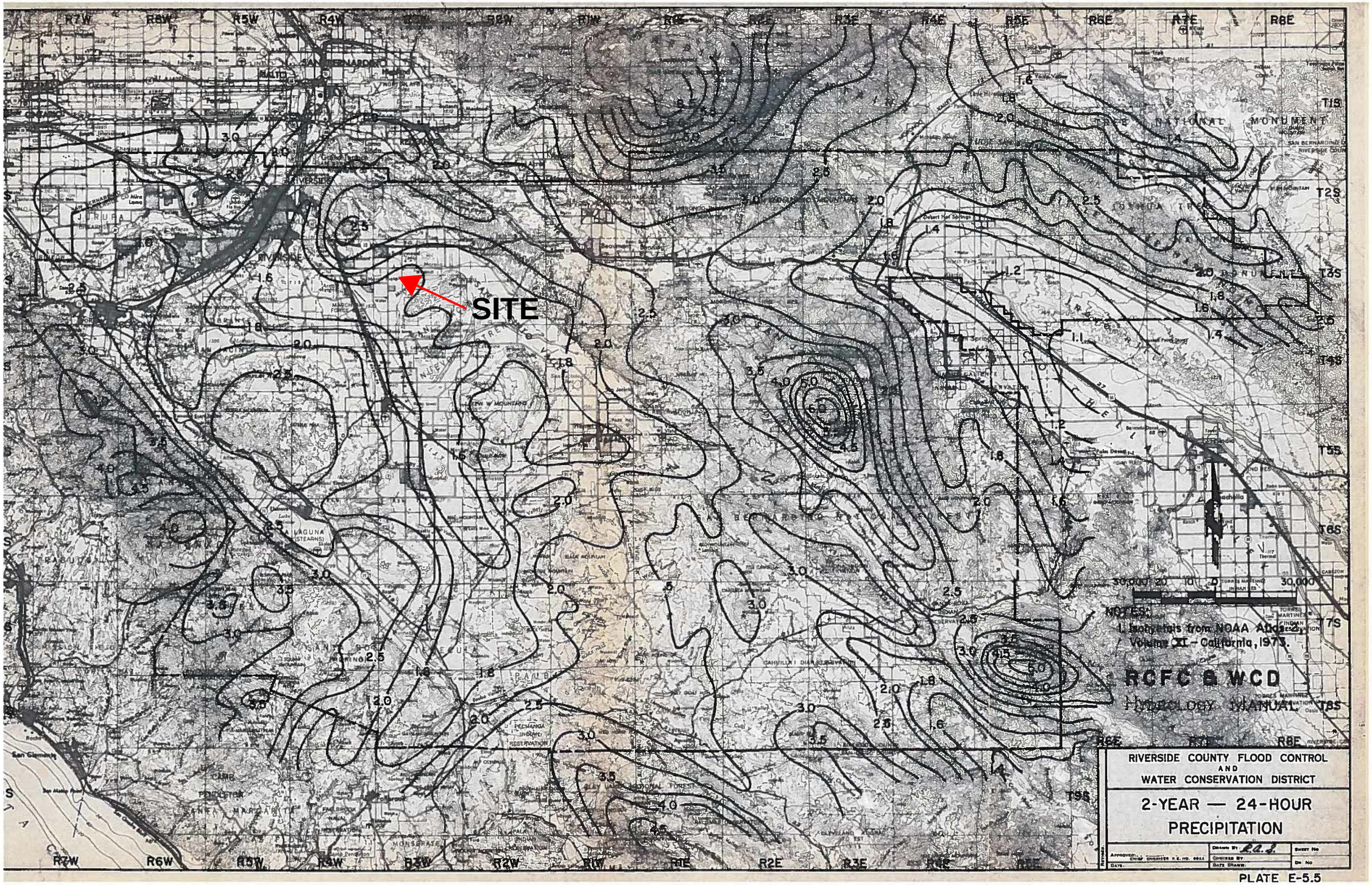

SITE
RIVERSIDE COUNTY FLOOD CONTROL
AND
WATER CONSERVATION DISTRICT
100-YEAR — 3-HOUR
PRECIPITATION
NOTES:
1. Isohyetals based on NOAA Atlas 2,
Volume XI - California, 1973
RCFC & WCD
HYDROLOGY MANUAL
PLATE E-5.2

1.90

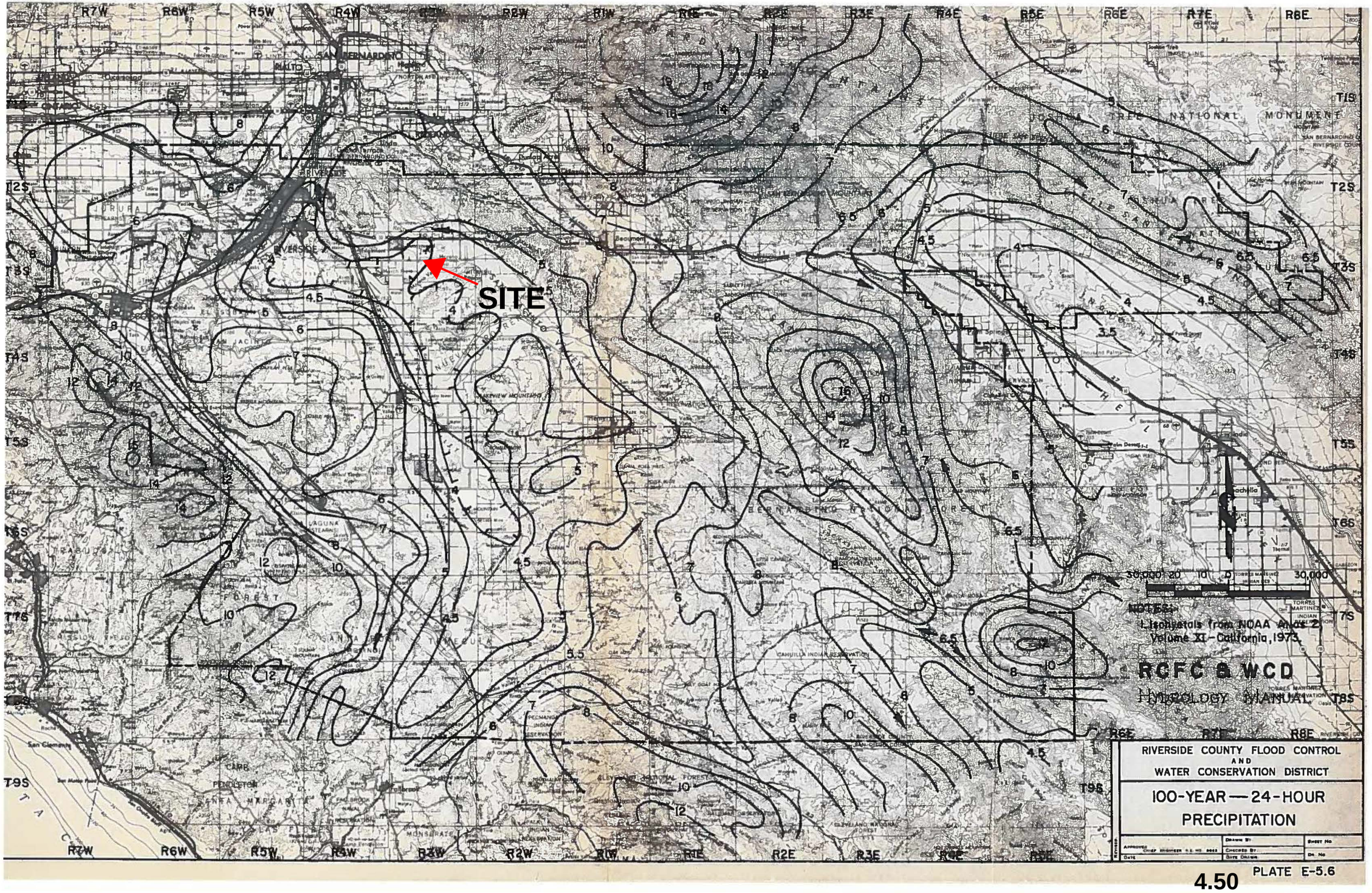

SITE
NOTES:
1. Isohyetals from NOAA Atlas 2,
Volume XI - California, 1973
RCFC & WCD
HYDROLOGY MANUAL
RIVERSIDE COUNTY FLOOD CONTROL
AND
WATER CONSERVATION DISTRICT
2-YEAR — 6-HOUR
PRECIPITATION


SITE
RIVERSIDE COUNTY FLOOD CONTROL
AND
WATER CONSERVATION DISTRICT
100-YEAR — 6-HOUR
PRECIPITATION
PLATE E-5.4
RCFC & WCD
HYDROLOGY MANUAL
NOTES:
1. Isohyetals from NOAA Atlas 2,
Volume XI - California, 1973

2.50


SITE
NOTES:
1. Isohyetals from NOAA Atlas 2, Volume XI - California, 1973.
RCFC & WCD
HYDROLOGY MANUAL
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
2-YEAR — 24-HOUR PRECIPITATION
PLATE E-5.5

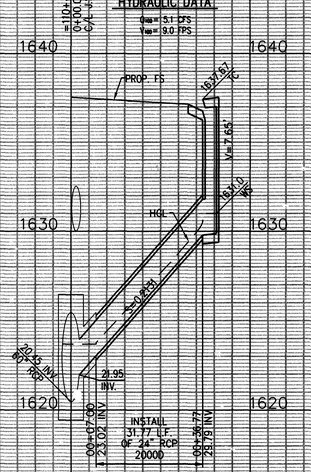
1.80

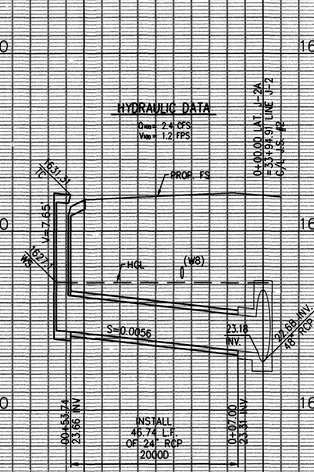

SITE
R7W
R6W
R5W
R4W
R3W
R2W
R1W
R1E
R2E
R3E
R4E
R5E
R6E
R7E
R8E
T12S
T3S
T4S
T5S
T6S
T7S
T8S
T9S
SAN BERNARDINO
RIVERSIDE
RIALTO
SAN BERNARDINO NATIONAL FOREST
CAHUILLA INDIAN RESERVATION
SANTA ROSA MOUNTAINS
SAN JACINTO MOUNTAINS
SAN JACINTO PEAK
SAN GORGONIO MOUNTAIN
JOSHUA TREE NATIONAL MONUMENT
SAN BERNARDINO MOUNTAINS
SAN JACINTO RIVER
SANTA ANA RIVER
TEMECULA
PECHANGA INDIAN RESERVATION
PENDLETON
CAMP PENDLETON
SANTA MARGARITA
MONSERATE
LAGUNA MOUNTAINS
CLEVELAND NATIONAL FOREST
TORRES MARTINEZ INDIAN RESERVATION
Thermal
Thermal
Mecca
Indio
Coachella
30,000 20 10 0 30,000
NOTES:
1. Isohyetals from NOAA Atlas 2, Volume XI - California, 1973.
RCFC & WCD
HYDROLOGY MANUAL
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
100-YEAR — 24-HOUR PRECIPITATION
DRAWN BY:
CHECKED BY:
DATE:
SHEET NO
DR. NO
REVISED
4.50
PLATE E-5.6

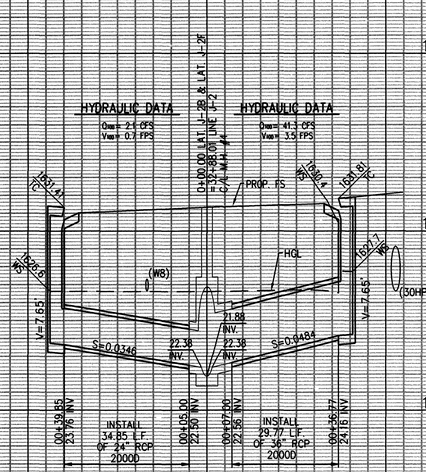
NOTE:
CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES UNLESS OTHERWISE NOTED.

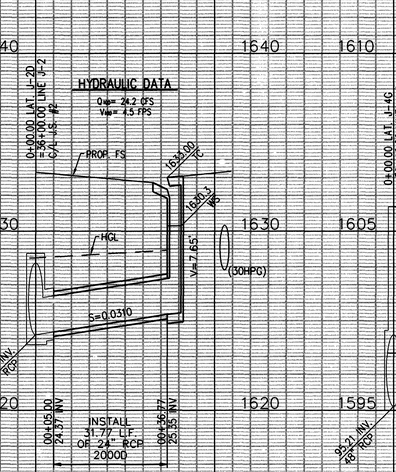
MAINTENANCE NOTE:
ALL CATCH BASINS AND LATERALS ARE TO BE MAINTAINED BY THE CITY OF MORENO VALLEY.

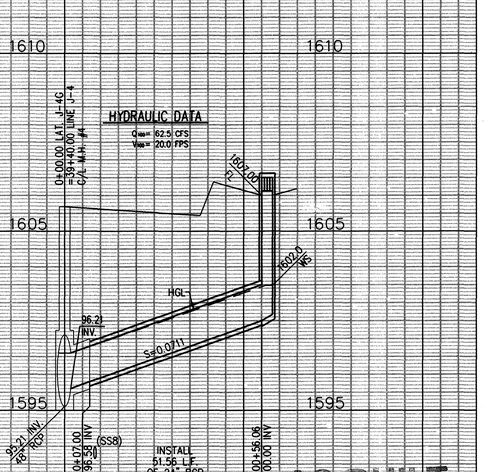
NOTE:
LATERALS ARE DRAWN LOOKING DOWN STREAM.

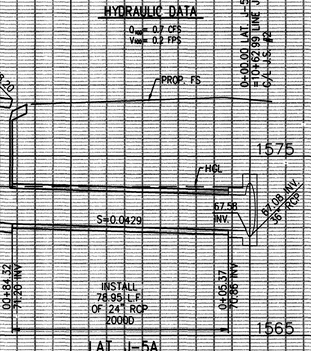


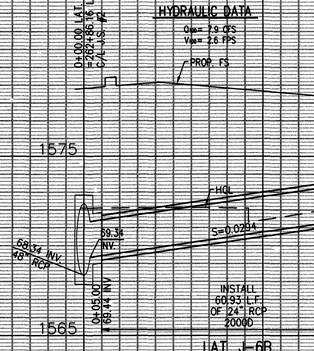


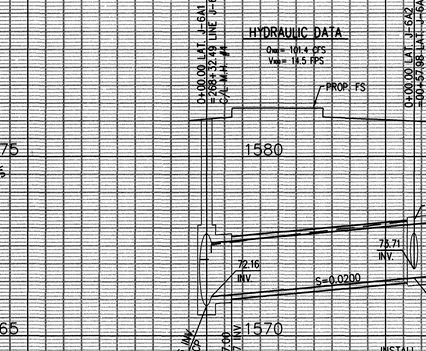


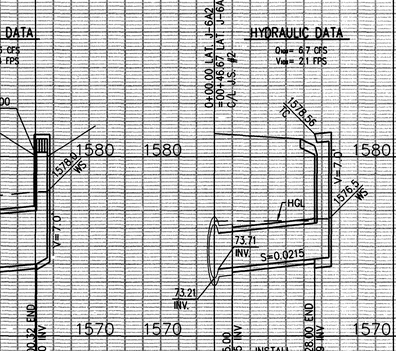


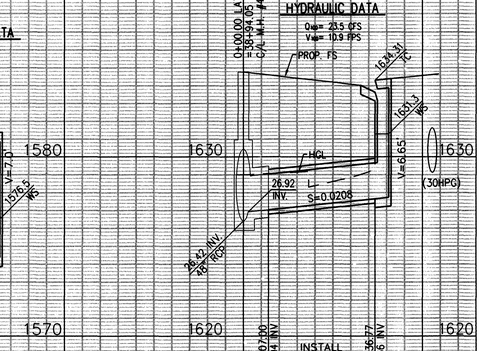












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TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER
JOHN DIERKSEN
NO. 43886
EXP. 6-30-05
CIVIL
STATE OF CALIFORNIA

BENCHMARK: ELEV. 606.913
RIVERSIDE COUNTY, M.L.
34-1-64, BRASS DISK IN TOP OF CONC. POST AT THE S.E. CORNER OF INT. OF ORANGE ST. AND SUMNER AVE. 2.5' W. OF P.P. #375282 MARKED M.L. 34-1, DATE 5-71.

REVISIONS

MARK	DATE	INITIAL	DESCRIPTION	APP'D

PHB & ASSOCIATES, INC.
CIVIL ENGINEERING · SURVEYING · LAND PLANNING
1620 SOUTH GRAND AVENUE
GLENDORA CALIFORNIA 91740
(626) 914-6256/FAX (626) 914-5756

PREPARED UNDER THE SUPERVISION OF:
JOHN DIERKSEN
RCE 43886
DATE 5-23-05

CITY OF MORENO VALLEY
APPROVED BY:
for
TRENT D. PULLIAM, CITY ENGINEER
R.C.E. No. 20517 (EXP. 09/30/2005)
DATE 6/21/05

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

MORENO MASTER DRAINAGE PLAN
LATERALS
STAGE 1
CONNECTOR PIPE PROFILES

PROJECT No. 4-0-0776-01
DRAWING No. 4-858
SHEET No. 17 OF 27