

```

-----
          (ha)   (cms)   (hrs)   (mm)
ID1= 1 ( 0130):   1.57  0.123  6.17  38.70
+ ID2= 2 ( 0131):  10.63  0.117  7.00  11.22
=====
ID = 3 ( 0012):  12.20  0.154  6.67  14.76

```

```

2.583  2.65 | 5.667  8.42 | 8.750  3.59 | 11.83  1.56
2.667  2.65 | 5.750  66.77 | 8.833  3.59 | 11.92  1.56
2.750  2.34 | 5.833  66.77 | 8.917  3.59 | 12.00  1.56
2.833  2.34 | 5.917  66.77 | 9.000  3.59 | 12.08  1.56
2.917  2.34 | 6.000  66.77 | 9.083  3.59 | 12.17  1.56
3.000  2.34 | 6.083  66.77 | 9.167  3.59 |
3.083  2.34 | 6.167  66.77 | 9.250  2.34 |

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| CALIB |
| NASHYD ( 0141) | Area (ha)= 7.22 Curve Number (CN)= 65.0
| ID= 1 DT= 5.0 min | Ia (mm)= 14.60 # of Linear Res.(N)= 3.00
-----
U.H. Tp(hrs)= 0.54

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

Unit Hyd Qpeak (cms)= 0.511

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PEAK FLOW (cms)= 0.184 (i)
TIME TO PEAK (hrs)= 6.667
RUNOFF VOLUME (mm)= 20.080
TOTAL RAINFALL (mm)= 78.000
RUNOFF COEFFICIENT = 0.257

```

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.34	6.250	17.00	9.33	2.34
0.167	0.00	3.250	3.12	6.333	17.00	9.42	2.34
0.250	2.34	3.333	3.12	6.417	17.00	9.50	2.34
0.333	2.34	3.417	3.12	6.500	17.00	9.58	2.34
0.417	2.34	3.500	3.12	6.583	17.00	9.67	2.34
0.500	2.34	3.583	3.12	6.667	17.00	9.75	1.87
0.583	2.34	3.667	3.12	6.750	7.49	9.83	1.87
0.667	2.34	3.750	3.12	6.833	7.49	9.92	1.87
0.750	1.09	3.833	3.12	6.917	7.49	10.00	1.87
0.833	1.09	3.917	3.12	7.000	7.49	10.08	1.87
0.917	1.09	4.000	3.12	7.083	7.49	10.17	1.87
1.000	1.09	4.083	3.12	7.167	7.49	10.25	2.65
1.083	1.09	4.167	3.12	7.250	4.99	10.33	2.65
1.167	1.09	4.250	4.21	7.333	4.99	10.42	2.65
1.250	2.03	4.333	4.21	7.417	4.99	10.50	2.65
1.333	2.03	4.417	4.21	7.500	4.99	10.58	2.65
1.417	2.03	4.500	4.21	7.583	4.99	10.67	2.65
1.500	2.03	4.583	4.21	7.667	4.99	10.75	1.72
1.583	2.03	4.667	4.21	7.750	4.37	10.83	1.72
1.667	2.03	4.750	5.30	7.833	4.37	10.92	1.72
1.750	2.03	4.833	5.30	7.917	4.37	11.00	1.72
1.833	2.03	4.917	5.30	8.000	4.37	11.08	1.72
1.917	2.03	5.000	5.30	8.083	4.37	11.17	1.72
2.000	2.03	5.083	5.30	8.167	4.37	11.25	1.56
2.083	2.03	5.167	5.30	8.250	3.43	11.33	1.56
2.167	2.03	5.250	8.42	8.333	3.43	11.42	1.56
2.250	2.65	5.333	8.42	8.417	3.43	11.50	1.56
2.333	2.65	5.417	8.42	8.500	3.43	11.58	1.56
2.417	2.65	5.500	8.42	8.583	3.43	11.67	1.56
2.500	2.65	5.583	8.42	8.667	3.43	11.75	1.56

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| CALIB |
| STANDHYD ( 0140) | Area (ha)= 0.76
| ID= 1 DT= 5.0 min | Total Imp(%)= 26.00 Dir. Conn.(%)= 26.00
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IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 0.20 0.56
Dep. Storage (mm)= 1.00 5.00
Average Slope (%)= 1.00 2.00
Length (m)= 71.35 40.00
Mannings n = 0.013 0.350

```

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.34	6.250	17.00	9.33	2.34
0.167	0.00	3.250	3.12	6.333	17.00	9.42	2.34
0.250	2.34	3.333	3.12	6.417	17.00	9.50	2.34
0.333	2.34	3.417	3.12	6.500	17.00	9.58	2.34
0.417	2.34	3.500	3.12	6.583	17.00	9.67	2.34
0.500	2.34	3.583	3.12	6.667	17.00	9.75	1.87
0.583	2.34	3.667	3.12	6.750	7.49	9.83	1.87
0.667	2.34	3.750	3.12	6.833	7.49	9.92	1.87
0.750	1.09	3.833	3.12	6.917	7.49	10.00	1.87
0.833	1.09	3.917	3.12	7.000	7.49	10.08	1.87
0.917	1.09	4.000	3.12	7.083	7.49	10.17	1.87
1.000	1.09	4.083	3.12	7.167	7.49	10.25	2.65
1.083	1.09	4.167	3.12	7.250	4.99	10.33	2.65

1.167	1.09	4.250	4.21	7.333	4.99	10.42	2.65
1.250	2.03	4.333	4.21	7.417	4.99	10.50	2.65
1.333	2.03	4.417	4.21	7.500	4.99	10.58	2.65
1.417	2.03	4.500	4.21	7.583	4.99	10.67	2.65
1.500	2.03	4.583	4.21	7.667	4.99	10.75	1.72
1.583	2.03	4.667	4.21	7.750	4.37	10.83	1.72
1.667	2.03	4.750	5.30	7.833	4.37	10.92	1.72
1.750	2.03	4.833	5.30	7.917	4.37	11.00	1.72
1.833	2.03	4.917	5.30	8.000	4.37	11.08	1.72
1.917	2.03	5.000	5.30	8.083	4.37	11.17	1.72
2.000	2.03	5.083	5.30	8.167	4.37	11.25	1.56
2.083	2.03	5.167	5.30	8.250	3.43	11.33	1.56
2.167	2.03	5.250	8.42	8.333	3.43	11.42	1.56
2.250	2.65	5.333	8.42	8.417	3.43	11.50	1.56
2.333	2.65	5.417	8.42	8.500	3.43	11.58	1.56
2.417	2.65	5.500	8.42	8.583	3.43	11.67	1.56
2.500	2.65	5.583	8.42	8.667	3.43	11.75	1.56
2.583	2.65	5.667	8.42	8.750	3.59	11.83	1.56
2.667	2.65	5.750	66.77	8.833	3.59	11.92	1.56
2.750	2.34	5.833	66.77	8.917	3.59	12.00	1.56
2.833	2.34	5.917	66.77	9.000	3.59	12.08	1.56
2.917	2.34	6.000	66.77	9.083	3.59	12.17	1.56
3.000	2.34	6.083	66.77	9.167	3.59		
3.083	2.34	6.167	66.77	9.250	2.34		

Max.Eff.Inten.(mm/hr)= 66.77 17.99
over (min) 5.00 20.00
Storage Coeff. (min)= 2.45 (ii) 19.60 (ii)
Unit Hyd. Tpeak (min)= 5.00 20.00
Unit Hyd. peak (cms)= 0.30 0.06

PEAK FLOW (cms)= 0.04 0.02
TIME TO PEAK (hrs)= 6.17 6.33
RUNOFF VOLUME (mm)= 77.00 18.98
TOTAL RAINFALL (mm)= 78.00 78.00
RUNOFF COEFFICIENT = 0.99 0.24

TOTALS
0.052 (iii)
6.17
34.05
78.00
0.44

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 55.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| ADD HYD (0015) |
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.

----- (ha) (cms) (hrs) (mm)
ID1= 1 (0140): 0.76 0.052 6.17 34.05
+ ID2= 2 (0141): 7.22 0.184 6.67 20.08
=====

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| CALIB |
| NASHYD (0151) | Area (ha)= 14.07 Curve Number (CN)= 66.0
| ID= 1 DT= 5.0 min | Ia (mm)= 14.20 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.18

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.34	6.250	17.00	9.33	2.34
0.167	0.00	3.250	3.12	6.333	17.00	9.42	2.34
0.250	2.34	3.333	3.12	6.417	17.00	9.50	2.34
0.333	2.34	3.417	3.12	6.500	17.00	9.58	2.34
0.417	2.34	3.500	3.12	6.583	17.00	9.67	2.34
0.500	2.34	3.583	3.12	6.667	17.00	9.75	1.87
0.583	2.34	3.667	3.12	6.750	7.49	9.83	1.87
0.667	2.34	3.750	3.12	6.833	7.49	9.92	1.87
0.750	1.09	3.833	3.12	6.917	7.49	10.00	1.87
0.833	1.09	3.917	3.12	7.000	7.49	10.08	1.87
0.917	1.09	4.000	3.12	7.083	7.49	10.17	1.87
1.000	1.09	4.083	3.12	7.167	7.49	10.25	2.65
1.083	1.09	4.167	3.12	7.250	4.99	10.33	2.65
1.167	1.09	4.250	4.21	7.333	4.99	10.42	2.65
1.250	2.03	4.333	4.21	7.417	4.99	10.50	2.65
1.333	2.03	4.417	4.21	7.500	4.99	10.58	2.65
1.417	2.03	4.500	4.21	7.583	4.99	10.67	2.65
1.500	2.03	4.583	4.21	7.667	4.99	10.75	1.72
1.583	2.03	4.667	4.21	7.750	4.37	10.83	1.72
1.667	2.03	4.750	5.30	7.833	4.37	10.92	1.72
1.750	2.03	4.833	5.30	7.917	4.37	11.00	1.72
1.833	2.03	4.917	5.30	8.000	4.37	11.08	1.72
1.917	2.03	5.000	5.30	8.083	4.37	11.17	1.72
2.000	2.03	5.083	5.30	8.167	4.37	11.25	1.56
2.083	2.03	5.167	5.30	8.250	3.43	11.33	1.56
2.167	2.03	5.250	8.42	8.333	3.43	11.42	1.56
2.250	2.65	5.333	8.42	8.417	3.43	11.50	1.56
2.333	2.65	5.417	8.42	8.500	3.43	11.58	1.56
2.417	2.65	5.500	8.42	8.583	3.43	11.67	1.56
2.500	2.65	5.583	8.42	8.667	3.43	11.75	1.56

2.583	2.65	5.667	8.42	8.750	3.59	11.83	1.56
2.667	2.65	5.750	66.77	8.833	3.59	11.92	1.56
2.750	2.34	5.833	66.77	8.917	3.59	12.00	1.56
2.833	2.34	5.917	66.77	9.000	3.59	12.08	1.56
2.917	2.34	6.000	66.77	9.083	3.59	12.17	1.56
3.000	2.34	6.083	66.77	9.167	3.59		
3.083	2.34	6.167	66.77	9.250	2.34		

1.167	1.09	4.250	4.21	7.333	4.99	10.42	2.65
1.250	2.03	4.333	4.21	7.417	4.99	10.50	2.65
1.333	2.03	4.417	4.21	7.500	4.99	10.58	2.65
1.417	2.03	4.500	4.21	7.583	4.99	10.67	2.65
1.500	2.03	4.583	4.21	7.667	4.99	10.75	1.72
1.583	2.03	4.667	4.21	7.750	4.37	10.83	1.72
1.667	2.03	4.750	5.30	7.833	4.37	10.92	1.72
1.750	2.03	4.833	5.30	7.917	4.37	11.00	1.72
1.833	2.03	4.917	5.30	8.000	4.37	11.08	1.72
1.917	2.03	5.000	5.30	8.083	4.37	11.17	1.72
2.000	2.03	5.083	5.30	8.167	4.37	11.25	1.56
2.083	2.03	5.167	5.30	8.250	3.43	11.33	1.56
2.167	2.03	5.250	8.42	8.333	3.43	11.42	1.56
2.250	2.65	5.333	8.42	8.417	3.43	11.50	1.56
2.333	2.65	5.417	8.42	8.500	3.43	11.58	1.56
2.417	2.65	5.500	8.42	8.583	3.43	11.67	1.56
2.500	2.65	5.583	8.42	8.667	3.43	11.75	1.56
2.583	2.65	5.667	8.42	8.750	3.59	11.83	1.56
2.667	2.65	5.750	66.77	8.833	3.59	11.92	1.56
2.750	2.34	5.833	66.77	8.917	3.59	12.00	1.56
2.833	2.34	5.917	66.77	9.000	3.59	12.08	1.56
2.917	2.34	6.000	66.77	9.083	3.59	12.17	1.56
3.000	2.34	6.083	66.77	9.167	3.59		
3.083	2.34	6.167	66.77	9.250	2.34		

Unit Hyd Qpeak (cms)= 2.986

PEAK FLOW (cms)= 0.683 (i)
 TIME TO PEAK (hrs)= 6.167
 RUNOFF VOLUME (mm)= 20.852
 TOTAL RAINFALL (mm)= 78.000
 RUNOFF COEFFICIENT = 0.267

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | STANDHYD (0150) | Area (ha)= 1.35
 | ID= 1 DT= 5.0 min | Total Imp(%)= 26.00 Dir. Conn.(%)= 26.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.35	1.00
Dep. Storage (mm)=	1.00	5.00
Average Slope (%)=	1.00	2.00
Length (m)=	94.72	40.00
Mannings n =	0.013	0.350

Max.Eff.Inten.(mm/hr)=	66.77	17.99
over (min)	5.00	25.00
Storage Coeff. (min)=	2.91 (ii)	20.06 (ii)
Unit Hyd. Tpeak (min)=	5.00	25.00
Unit Hyd. peak (cms)=	0.28	0.05

TOTALS

PEAK FLOW (cms)=	0.07	0.03	0.088 (iii)
TIME TO PEAK (hrs)=	6.17	6.42	6.17
RUNOFF VOLUME (mm)=	77.00	18.98	34.05
TOTAL RAINFALL (mm)=	78.00	78.00	78.00
RUNOFF COEFFICIENT =	0.99	0.24	0.44

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.34	6.250	17.00	9.33	2.34
0.167	0.00	3.250	3.12	6.333	17.00	9.42	2.34
0.250	2.34	3.333	3.12	6.417	17.00	9.50	2.34
0.333	2.34	3.417	3.12	6.500	17.00	9.58	2.34
0.417	2.34	3.500	3.12	6.583	17.00	9.67	2.34
0.500	2.34	3.583	3.12	6.667	17.00	9.75	1.87
0.583	2.34	3.667	3.12	6.750	7.49	9.83	1.87
0.667	2.34	3.750	3.12	6.833	7.49	9.92	1.87
0.750	1.09	3.833	3.12	6.917	7.49	10.00	1.87
0.833	1.09	3.917	3.12	7.000	7.49	10.08	1.87
0.917	1.09	4.000	3.12	7.083	7.49	10.17	1.87
1.000	1.09	4.083	3.12	7.167	7.49	10.25	2.65
1.083	1.09	4.167	3.12	7.250	4.99	10.33	2.65

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 55.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | ADD HYD (0018) |
 | 1 + 2 = 3 | AREA QPEAK TPEAK R.V.

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-----
          (ha)   (cms)   (hrs)   (mm)
ID1= 1 ( 0150):   1.35  0.088   6.17  34.05
+ ID2= 2 ( 0151):  14.07  0.683   6.17  20.85
=====
ID = 3 ( 0018):  15.42  0.771   6.17  22.01

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2.583  2.65 | 5.667  8.42 | 8.750  3.59 | 11.83  1.56
2.667  2.65 | 5.750  66.77 | 8.833  3.59 | 11.92  1.56
2.750  2.34 | 5.833  66.77 | 8.917  3.59 | 12.00  1.56
2.833  2.34 | 5.917  66.77 | 9.000  3.59 | 12.08  1.56
2.917  2.34 | 6.000  66.77 | 9.083  3.59 | 12.17  1.56
3.000  2.34 | 6.083  66.77 | 9.167  3.59 |
3.083  2.34 | 6.167  66.77 | 9.250  2.34 |

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| CALIB |
| NASHYD ( 0161) | Area (ha)= 131.28 Curve Number (CN)= 75.0
| ID= 1 DT= 5.0 min | Ia (mm)= 8.60 # of Linear Res.(N)= 3.00
-----
U.H. Tp(hrs)= 0.95

```

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

Unit Hyd Qpeak (cms)= 5.278

```

PEAK FLOW (cms)= 3.825 (i)
TIME TO PEAK (hrs)= 7.167
RUNOFF VOLUME (mm)= 31.261
TOTAL RAINFALL (mm)= 78.000
RUNOFF COEFFICIENT = 0.401

```

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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-----
          ----- TRANSFORMED HYETOGRAPH -----
TIME    RAIN | TIME    RAIN | TIME    RAIN | TIME    RAIN
hrs     mm/hr | hrs     mm/hr | hrs     mm/hr | hrs     mm/hr
0.083   0.00 | 3.167   2.34 | 6.250   17.00 | 9.33    2.34
0.167   0.00 | 3.250   3.12 | 6.333   17.00 | 9.42    2.34
0.250   2.34 | 3.333   3.12 | 6.417   17.00 | 9.50    2.34
0.333   2.34 | 3.417   3.12 | 6.500   17.00 | 9.58    2.34
0.417   2.34 | 3.500   3.12 | 6.583   17.00 | 9.67    2.34
0.500   2.34 | 3.583   3.12 | 6.667   17.00 | 9.75    1.87
0.583   2.34 | 3.667   3.12 | 6.750   7.49 | 9.83    1.87
0.667   2.34 | 3.750   3.12 | 6.833   7.49 | 9.92    1.87
0.750   1.09 | 3.833   3.12 | 6.917   7.49 | 10.00   1.87
0.833   1.09 | 3.917   3.12 | 7.000   7.49 | 10.08   1.87
0.917   1.09 | 4.000   3.12 | 7.083   7.49 | 10.17   1.87
1.000   1.09 | 4.083   3.12 | 7.167   7.49 | 10.25   2.65
1.083   1.09 | 4.167   3.12 | 7.250   4.99 | 10.33   2.65
1.167   1.09 | 4.250   4.21 | 7.333   4.99 | 10.42   2.65
1.250   2.03 | 4.333   4.21 | 7.417   4.99 | 10.50   2.65
1.333   2.03 | 4.417   4.21 | 7.500   4.99 | 10.58   2.65
1.417   2.03 | 4.500   4.21 | 7.583   4.99 | 10.67   2.65
1.500   2.03 | 4.583   4.21 | 7.667   4.99 | 10.75   1.72
1.583   2.03 | 4.667   4.21 | 7.750   4.37 | 10.83   1.72
1.667   2.03 | 4.750   5.30 | 7.833   4.37 | 10.92   1.72
1.750   2.03 | 4.833   5.30 | 7.917   4.37 | 11.00   1.72
1.833   2.03 | 4.917   5.30 | 8.000   4.37 | 11.08   1.72
1.917   2.03 | 5.000   5.30 | 8.083   4.37 | 11.17   1.72
2.000   2.03 | 5.083   5.30 | 8.167   4.37 | 11.25   1.56
2.083   2.03 | 5.167   5.30 | 8.250   3.43 | 11.33   1.56
2.167   2.03 | 5.250   8.42 | 8.333   3.43 | 11.42   1.56
2.250   2.65 | 5.333   8.42 | 8.417   3.43 | 11.50   1.56
2.333   2.65 | 5.417   8.42 | 8.500   3.43 | 11.58   1.56
2.417   2.65 | 5.500   8.42 | 8.583   3.43 | 11.67   1.56
2.500   2.65 | 5.583   8.42 | 8.667   3.43 | 11.75   1.56

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| CALIB |
| STANDHYD ( 0160) | Area (ha)= 3.05
| ID= 1 DT= 5.0 min | Total Imp(%)= 28.00 Dir. Conn.(%)= 28.00
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          IMPERVIOUS   PERVIOUS (i)
Surface Area (ha)= 0.85 2.20
Dep. Storage (mm)= 1.00 5.00
Average Slope (%)= 1.00 2.00
Length (m)= 142.49 40.00
Mannings n = 0.013 0.350

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

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          ----- TRANSFORMED HYETOGRAPH -----
TIME    RAIN | TIME    RAIN | TIME    RAIN | TIME    RAIN
hrs     mm/hr | hrs     mm/hr | hrs     mm/hr | hrs     mm/hr
0.083   0.00 | 3.167   2.34 | 6.250   17.00 | 9.33    2.34
0.167   0.00 | 3.250   3.12 | 6.333   17.00 | 9.42    2.34
0.250   2.34 | 3.333   3.12 | 6.417   17.00 | 9.50    2.34
0.333   2.34 | 3.417   3.12 | 6.500   17.00 | 9.58    2.34
0.417   2.34 | 3.500   3.12 | 6.583   17.00 | 9.67    2.34
0.500   2.34 | 3.583   3.12 | 6.667   17.00 | 9.75    1.87
0.583   2.34 | 3.667   3.12 | 6.750   7.49 | 9.83    1.87
0.667   2.34 | 3.750   3.12 | 6.833   7.49 | 9.92    1.87
0.750   1.09 | 3.833   3.12 | 6.917   7.49 | 10.00   1.87
0.833   1.09 | 3.917   3.12 | 7.000   7.49 | 10.08   1.87
0.917   1.09 | 4.000   3.12 | 7.083   7.49 | 10.17   1.87
1.000   1.09 | 4.083   3.12 | 7.167   7.49 | 10.25   2.65
1.083   1.09 | 4.167   3.12 | 7.250   4.99 | 10.33   2.65

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1.167	1.09	4.250	4.21	7.333	4.99	10.42	2.65
1.250	2.03	4.333	4.21	7.417	4.99	10.50	2.65
1.333	2.03	4.417	4.21	7.500	4.99	10.58	2.65
1.417	2.03	4.500	4.21	7.583	4.99	10.67	2.65
1.500	2.03	4.583	4.21	7.667	4.99	10.75	1.72
1.583	2.03	4.667	4.21	7.750	4.37	10.83	1.72
1.667	2.03	4.750	5.30	7.833	4.37	10.92	1.72
1.750	2.03	4.833	5.30	7.917	4.37	11.00	1.72
1.833	2.03	4.917	5.30	8.000	4.37	11.08	1.72
1.917	2.03	5.000	5.30	8.083	4.37	11.17	1.72
2.000	2.03	5.083	5.30	8.167	4.37	11.25	1.56
2.083	2.03	5.167	5.30	8.250	3.43	11.33	1.56
2.167	2.03	5.250	8.42	8.333	3.43	11.42	1.56
2.250	2.65	5.333	8.42	8.417	3.43	11.50	1.56
2.333	2.65	5.417	8.42	8.500	3.43	11.58	1.56
2.417	2.65	5.500	8.42	8.583	3.43	11.67	1.56
2.500	2.65	5.583	8.42	8.667	3.43	11.75	1.56
2.583	2.65	5.667	8.42	8.750	3.59	11.83	1.56
2.667	2.65	5.750	66.77	8.833	3.59	11.92	1.56
2.750	2.34	5.833	66.77	8.917	3.59	12.00	1.56
2.833	2.34	5.917	66.77	9.000	3.59	12.08	1.56
2.917	2.34	6.000	66.77	9.083	3.59	12.17	1.56
3.000	2.34	6.083	66.77	9.167	3.59		
3.083	2.34	6.167	66.77	9.250	2.34		

Max.Eff.Inten.(mm/hr)= 66.77 17.99
over (min) 5.00 25.00
Storage Coeff. (min)= 3.71 (ii) 20.86 (ii)
Unit Hyd. Tpeak (min)= 5.00 25.00
Unit Hyd. peak (cms)= 0.25 0.05

PEAK FLOW (cms)= 0.16 0.07
TIME TO PEAK (hrs)= 6.17 6.42 6.17
RUNOFF VOLUME (mm)= 77.00 18.98 35.22
TOTAL RAINFALL (mm)= 78.00 78.00 78.00
RUNOFF COEFFICIENT = 0.99 0.24 0.45

TOTALS
0.209 (iii)

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 55.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| ADD HYD (0021) |
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.

----- (ha) (cms) (hrs) (mm)
ID1= 1 (0160): 3.05 0.209 6.17 35.22
+ ID2= 2 (0161): 131.28 3.825 7.17 31.26
=====

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| CALIB |
| NASHYD (0171) | Area (ha)= 32.39 Curve Number (CN)= 59.0
| ID= 1 DT= 5.0 min | Ia (mm)= 19.10 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.89

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.34	6.250	17.00	9.33	2.34
0.167	0.00	3.250	3.12	6.333	17.00	9.42	2.34
0.250	2.34	3.333	3.12	6.417	17.00	9.50	2.34
0.333	2.34	3.417	3.12	6.500	17.00	9.58	2.34
0.417	2.34	3.500	3.12	6.583	17.00	9.67	2.34
0.500	2.34	3.583	3.12	6.667	17.00	9.75	1.87
0.583	2.34	3.667	3.12	6.750	7.49	9.83	1.87
0.667	2.34	3.750	3.12	6.833	7.49	9.92	1.87
0.750	1.09	3.833	3.12	6.917	7.49	10.00	1.87
0.833	1.09	3.917	3.12	7.000	7.49	10.08	1.87
0.917	1.09	4.000	3.12	7.083	7.49	10.17	1.87
1.000	1.09	4.083	3.12	7.167	7.49	10.25	2.65
1.083	1.09	4.167	3.12	7.250	4.99	10.33	2.65
1.167	1.09	4.250	4.21	7.333	4.99	10.42	2.65
1.250	2.03	4.333	4.21	7.417	4.99	10.50	2.65
1.333	2.03	4.417	4.21	7.500	4.99	10.58	2.65
1.417	2.03	4.500	4.21	7.583	4.99	10.67	2.65
1.500	2.03	4.583	4.21	7.667	4.99	10.75	1.72
1.583	2.03	4.667	4.21	7.750	4.37	10.83	1.72
1.667	2.03	4.750	5.30	7.833	4.37	10.92	1.72
1.750	2.03	4.833	5.30	7.917	4.37	11.00	1.72
1.833	2.03	4.917	5.30	8.000	4.37	11.08	1.72
1.917	2.03	5.000	5.30	8.083	4.37	11.17	1.72
2.000	2.03	5.083	5.30	8.167	4.37	11.25	1.56
2.083	2.03	5.167	5.30	8.250	3.43	11.33	1.56
2.167	2.03	5.250	8.42	8.333	3.43	11.42	1.56
2.250	2.65	5.333	8.42	8.417	3.43	11.50	1.56
2.333	2.65	5.417	8.42	8.500	3.43	11.58	1.56
2.417	2.65	5.500	8.42	8.583	3.43	11.67	1.56
2.500	2.65	5.583	8.42	8.667	3.43	11.75	1.56

2.583	2.65	5.667	8.42	8.750	3.59	11.83	1.56
2.667	2.65	5.750	66.77	8.833	3.59	11.92	1.56
2.750	2.34	5.833	66.77	8.917	3.59	12.00	1.56
2.833	2.34	5.917	66.77	9.000	3.59	12.08	1.56
2.917	2.34	6.000	66.77	9.083	3.59	12.17	1.56
3.000	2.34	6.083	66.77	9.167	3.59		
3.083	2.34	6.167	66.77	9.250	2.34		

Unit Hyd Qpeak (cms)= 1.390

PEAK FLOW (cms)= 0.418 (i)
 TIME TO PEAK (hrs)= 7.250
 RUNOFF VOLUME (mm)= 14.737
 TOTAL RAINFALL (mm)= 78.000
 RUNOFF COEFFICIENT = 0.189

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

1.667	2.03	4.750	5.30	7.833	4.37	10.92	1.72
1.750	2.03	4.833	5.30	7.917	4.37	11.00	1.72
1.833	2.03	4.917	5.30	8.000	4.37	11.08	1.72
1.917	2.03	5.000	5.30	8.083	4.37	11.17	1.72
2.000	2.03	5.083	5.30	8.167	4.37	11.25	1.56
2.083	2.03	5.167	5.30	8.250	3.43	11.33	1.56
2.167	2.03	5.250	8.42	8.333	3.43	11.42	1.56
2.250	2.65	5.333	8.42	8.417	3.43	11.50	1.56
2.333	2.65	5.417	8.42	8.500	3.43	11.58	1.56
2.417	2.65	5.500	8.42	8.583	3.43	11.67	1.56
2.500	2.65	5.583	8.42	8.667	3.43	11.75	1.56
2.583	2.65	5.667	8.42	8.750	3.59	11.83	1.56
2.667	2.65	5.750	66.77	8.833	3.59	11.92	1.56
2.750	2.34	5.833	66.77	8.917	3.59	12.00	1.56
2.833	2.34	5.917	66.77	9.000	3.59	12.08	1.56
2.917	2.34	6.000	66.77	9.083	3.59	12.17	1.56
3.000	2.34	6.083	66.77	9.167	3.59		
3.083	2.34	6.167	66.77	9.250	2.34		

Unit Hyd Qpeak (cms)= 0.095

PEAK FLOW (cms)= 0.022 (i)
 TIME TO PEAK (hrs)= 7.417
 RUNOFF VOLUME (mm)= 11.659
 TOTAL RAINFALL (mm)= 78.000
 RUNOFF COEFFICIENT = 0.149

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB							
NASHYD (0180)	Area (ha)=	2.46	Curve Number (CN)=	55.0			
ID= 1 DT= 5.0 min	Ia (mm)=	22.60	# of Linear Res.(N)=	3.00			
	U.H. Tp(hrs)=	0.99					

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.34	6.250	17.00	9.33	2.34
0.167	0.00	3.250	3.12	6.333	17.00	9.42	2.34
0.250	2.34	3.333	3.12	6.417	17.00	9.50	2.34
0.333	2.34	3.417	3.12	6.500	17.00	9.58	2.34
0.417	2.34	3.500	3.12	6.583	17.00	9.67	2.34
0.500	2.34	3.583	3.12	6.667	17.00	9.75	1.87
0.583	2.34	3.667	3.12	6.750	7.49	9.83	1.87
0.667	2.34	3.750	3.12	6.833	7.49	9.92	1.87
0.750	1.09	3.833	3.12	6.917	7.49	10.00	1.87
0.833	1.09	3.917	3.12	7.000	7.49	10.08	1.87
0.917	1.09	4.000	3.12	7.083	7.49	10.17	1.87
1.000	1.09	4.083	3.12	7.167	7.49	10.25	2.65
1.083	1.09	4.167	3.12	7.250	4.99	10.33	2.65
1.167	1.09	4.250	4.21	7.333	4.99	10.42	2.65
1.250	2.03	4.333	4.21	7.417	4.99	10.50	2.65
1.333	2.03	4.417	4.21	7.500	4.99	10.58	2.65
1.417	2.03	4.500	4.21	7.583	4.99	10.67	2.65
1.500	2.03	4.583	4.21	7.667	4.99	10.75	1.72
1.583	2.03	4.667	4.21	7.750	4.37	10.83	1.72

CALIB							
STANDHYD (0181)	Area (ha)=	1.21					
ID= 1 DT= 5.0 min	Total Imp(%)=	28.00	Dir. Conn.(%)=	28.00			

IMPERVIOUS PERVIOUS (i)
 Surface Area (ha)= 0.34 0.87
 Dep. Storage (mm)= 1.00 5.00
 Average Slope (%)= 1.00 2.00
 Length (m)= 89.96 40.00
 Mannings n = 0.013 0.350

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.34	6.250	17.00	9.33	2.34
0.167	0.00	3.250	3.12	6.333	17.00	9.42	2.34

0.250	2.34	3.333	3.12	6.417	17.00	9.50	2.34
0.333	2.34	3.417	3.12	6.500	17.00	9.58	2.34
0.417	2.34	3.500	3.12	6.583	17.00	9.67	2.34
0.500	2.34	3.583	3.12	6.667	17.00	9.75	1.87
0.583	2.34	3.667	3.12	6.750	7.49	9.83	1.87
0.667	2.34	3.750	3.12	6.833	7.49	9.92	1.87
0.750	1.09	3.833	3.12	6.917	7.49	10.00	1.87
0.833	1.09	3.917	3.12	7.000	7.49	10.08	1.87
0.917	1.09	4.000	3.12	7.083	7.49	10.17	1.87
1.000	1.09	4.083	3.12	7.167	7.49	10.25	2.65
1.083	1.09	4.167	3.12	7.250	4.99	10.33	2.65
1.167	1.09	4.250	4.21	7.333	4.99	10.42	2.65
1.250	2.03	4.333	4.21	7.417	4.99	10.50	2.65
1.333	2.03	4.417	4.21	7.500	4.99	10.58	2.65
1.417	2.03	4.500	4.21	7.583	4.99	10.67	2.65
1.500	2.03	4.583	4.21	7.667	4.99	10.75	1.72
1.583	2.03	4.667	4.21	7.750	4.37	10.83	1.72
1.667	2.03	4.750	5.30	7.833	4.37	10.92	1.72
1.750	2.03	4.833	5.30	7.917	4.37	11.00	1.72
1.833	2.03	4.917	5.30	8.000	4.37	11.08	1.72
1.917	2.03	5.000	5.30	8.083	4.37	11.17	1.72
2.000	2.03	5.083	5.30	8.167	4.37	11.25	1.56
2.083	2.03	5.167	5.30	8.250	3.43	11.33	1.56
2.167	2.03	5.250	8.42	8.333	3.43	11.42	1.56
2.250	2.65	5.333	8.42	8.417	3.43	11.50	1.56
2.333	2.65	5.417	8.42	8.500	3.43	11.58	1.56
2.417	2.65	5.500	8.42	8.583	3.43	11.67	1.56
2.500	2.65	5.583	8.42	8.667	3.43	11.75	1.56
2.583	2.65	5.667	8.42	8.750	3.59	11.83	1.56
2.667	2.65	5.750	66.77	8.833	3.59	11.92	1.56
2.750	2.34	5.833	66.77	8.917	3.59	12.00	1.56
2.833	2.34	5.917	66.77	9.000	3.59	12.08	1.56
2.917	2.34	6.000	66.77	9.083	3.59	12.17	1.56
3.000	2.34	6.083	66.77	9.167	3.59		
3.083	2.34	6.167	66.77	9.250	2.34		

Max.Eff.Inten.(mm/hr)= 66.77 17.99
over (min) 5.00 20.00
Storage Coeff. (min)= 2.82 (ii) 19.97 (ii)
Unit Hyd. Tpeak (min)= 5.00 20.00
Unit Hyd. peak (cms)= 0.28 0.06

TOTALS
PEAK FLOW (cms)= 0.06 0.03 0.086 (iii)
TIME TO PEAK (hrs)= 6.17 6.33 6.17
RUNOFF VOLUME (mm)= 77.00 18.98 35.21
TOTAL RAINFALL (mm)= 78.00 78.00 78.00
RUNOFF COEFFICIENT = 0.99 0.24 0.45

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 55.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```

-----
| ADD HYD ( 0027) |
| 1 + 2 = 3 |
-----

```

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0180):	2.46	0.022	7.42	11.66
+ ID2= 2 (0181):	1.21	0.086	6.17	35.21
=====				
ID = 3 (0027):	3.67	0.089	6.17	19.43

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| ADD HYD ( 0062) |
| 1 + 2 = 3 |
-----

```

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0171):	32.39	0.418	7.25	14.74
+ ID2= 2 (0027):	3.67	0.089	6.17	19.43
=====				
ID = 3 (0062):	36.06	0.458	7.17	15.21

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| CALIB |
| STANDHYD ( 0170) |
| ID= 1 DT= 5.0 min |
-----

```

Area (ha)=	3.33
Total Imp(%)=	29.00
Dir. Conn.(%)=	29.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.97	2.36
Dep. Storage (mm)=	1.00	5.00
Average Slope (%)=	1.00	2.00
Length (m)=	149.09	40.00
Mannings n =	0.013	0.350

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

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----- TRANSFORMED HYETOGRAPH -----

```

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.34	6.250	17.00	9.33	2.34

0.167	0.00	3.250	3.12	6.333	17.00	9.42	2.34
0.250	2.34	3.333	3.12	6.417	17.00	9.50	2.34
0.333	2.34	3.417	3.12	6.500	17.00	9.58	2.34
0.417	2.34	3.500	3.12	6.583	17.00	9.67	2.34
0.500	2.34	3.583	3.12	6.667	17.00	9.75	1.87
0.583	2.34	3.667	3.12	6.750	7.49	9.83	1.87
0.667	2.34	3.750	3.12	6.833	7.49	9.92	1.87
0.750	1.09	3.833	3.12	6.917	7.49	10.00	1.87
0.833	1.09	3.917	3.12	7.000	7.49	10.08	1.87
0.917	1.09	4.000	3.12	7.083	7.49	10.17	1.87
1.000	1.09	4.083	3.12	7.167	7.49	10.25	2.65
1.083	1.09	4.167	3.12	7.250	4.99	10.33	2.65
1.167	1.09	4.250	4.21	7.333	4.99	10.42	2.65
1.250	2.03	4.333	4.21	7.417	4.99	10.50	2.65
1.333	2.03	4.417	4.21	7.500	4.99	10.58	2.65
1.417	2.03	4.500	4.21	7.583	4.99	10.67	2.65
1.500	2.03	4.583	4.21	7.667	4.99	10.75	1.72
1.583	2.03	4.667	4.21	7.750	4.37	10.83	1.72
1.667	2.03	4.750	5.30	7.833	4.37	10.92	1.72
1.750	2.03	4.833	5.30	7.917	4.37	11.00	1.72
1.833	2.03	4.917	5.30	8.000	4.37	11.08	1.72
1.917	2.03	5.000	5.30	8.083	4.37	11.17	1.72
2.000	2.03	5.083	5.30	8.167	4.37	11.25	1.56
2.083	2.03	5.167	5.30	8.250	3.43	11.33	1.56
2.167	2.03	5.250	8.42	8.333	3.43	11.42	1.56
2.250	2.65	5.333	8.42	8.417	3.43	11.50	1.56
2.333	2.65	5.417	8.42	8.500	3.43	11.58	1.56
2.417	2.65	5.500	8.42	8.583	3.43	11.67	1.56
2.500	2.65	5.583	8.42	8.667	3.43	11.75	1.56
2.583	2.65	5.667	8.42	8.750	3.59	11.83	1.56
2.667	2.65	5.750	66.77	8.833	3.59	11.92	1.56
2.750	2.34	5.833	66.77	8.917	3.59	12.00	1.56
2.833	2.34	5.917	66.77	9.000	3.59	12.08	1.56
2.917	2.34	6.000	66.77	9.083	3.59	12.17	1.56
3.000	2.34	6.083	66.77	9.167	3.59		
3.083	2.34	6.167	66.77	9.250	2.34		

Max.Eff.Inten.(mm/hr)= 66.77 17.99
over (min) 5.00 25.00
Storage Coeff. (min)= 3.82 (ii) 20.97 (ii)
Unit Hyd. Tpeak (min)= 5.00 25.00
Unit Hyd. peak (cms)= 0.25 0.05

TOTALS
PEAK FLOW (cms)= 0.18 0.07 0.233 (iii)
TIME TO PEAK (hrs)= 6.17 6.42 6.17
RUNOFF VOLUME (mm)= 77.00 18.98 35.80
TOTAL RAINFALL (mm)= 78.00 78.00 78.00
RUNOFF COEFFICIENT = 0.99 0.24 0.46

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 55.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0024)				
1 + 2 = 3				
	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0170):	3.33	0.233	6.17	35.80
+ ID2= 2 (0062):	36.06	0.458	7.17	15.21
=====				
ID = 3 (0024):	39.39	0.511	7.08	16.95

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB				
NASHYD (0221)				
	Area	(ha)=	14.91	Curve Number (CN)= 59.0
ID= 1 DT= 5.0 min	Ia	(mm)=	18.90	# of Linear Res.(N)= 3.00

	U.H. Tp(hrs)=	0.41		

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.34	6.250	17.00	9.33	2.34
0.167	0.00	3.250	3.12	6.333	17.00	9.42	2.34
0.250	2.34	3.333	3.12	6.417	17.00	9.50	2.34
0.333	2.34	3.417	3.12	6.500	17.00	9.58	2.34
0.417	2.34	3.500	3.12	6.583	17.00	9.67	2.34
0.500	2.34	3.583	3.12	6.667	17.00	9.75	1.87
0.583	2.34	3.667	3.12	6.750	7.49	9.83	1.87
0.667	2.34	3.750	3.12	6.833	7.49	9.92	1.87
0.750	1.09	3.833	3.12	6.917	7.49	10.00	1.87
0.833	1.09	3.917	3.12	7.000	7.49	10.08	1.87
0.917	1.09	4.000	3.12	7.083	7.49	10.17	1.87
1.000	1.09	4.083	3.12	7.167	7.49	10.25	2.65
1.083	1.09	4.167	3.12	7.250	4.99	10.33	2.65
1.167	1.09	4.250	4.21	7.333	4.99	10.42	2.65
1.250	2.03	4.333	4.21	7.417	4.99	10.50	2.65
1.333	2.03	4.417	4.21	7.500	4.99	10.58	2.65
1.417	2.03	4.500	4.21	7.583	4.99	10.67	2.65
1.500	2.03	4.583	4.21	7.667	4.99	10.75	1.72

1.583	2.03	4.667	4.21	7.750	4.37	10.83	1.72
1.667	2.03	4.750	5.30	7.833	4.37	10.92	1.72
1.750	2.03	4.833	5.30	7.917	4.37	11.00	1.72
1.833	2.03	4.917	5.30	8.000	4.37	11.08	1.72
1.917	2.03	5.000	5.30	8.083	4.37	11.17	1.72
2.000	2.03	5.083	5.30	8.167	4.37	11.25	1.56
2.083	2.03	5.167	5.30	8.250	3.43	11.33	1.56
2.167	2.03	5.250	8.42	8.333	3.43	11.42	1.56
2.250	2.65	5.333	8.42	8.417	3.43	11.50	1.56
2.333	2.65	5.417	8.42	8.500	3.43	11.58	1.56
2.417	2.65	5.500	8.42	8.583	3.43	11.67	1.56
2.500	2.65	5.583	8.42	8.667	3.43	11.75	1.56
2.583	2.65	5.667	8.42	8.750	3.59	11.83	1.56
2.667	2.65	5.750	66.77	8.833	3.59	11.92	1.56
2.750	2.34	5.833	66.77	8.917	3.59	12.00	1.56
2.833	2.34	5.917	66.77	9.000	3.59	12.08	1.56
2.917	2.34	6.000	66.77	9.083	3.59	12.17	1.56
3.000	2.34	6.083	66.77	9.167	3.59		
3.083	2.34	6.167	66.77	9.250	2.34		

0.167	0.00	3.250	3.12	6.333	17.00	9.42	2.34
0.250	2.34	3.333	3.12	6.417	17.00	9.50	2.34
0.333	2.34	3.417	3.12	6.500	17.00	9.58	2.34
0.417	2.34	3.500	3.12	6.583	17.00	9.67	2.34
0.500	2.34	3.583	3.12	6.667	17.00	9.75	1.87
0.583	2.34	3.667	3.12	6.750	7.49	9.83	1.87
0.667	2.34	3.750	3.12	6.833	7.49	9.92	1.87
0.750	1.09	3.833	3.12	6.917	7.49	10.00	1.87
0.833	1.09	3.917	3.12	7.000	7.49	10.08	1.87
0.917	1.09	4.000	3.12	7.083	7.49	10.17	1.87
1.000	1.09	4.083	3.12	7.167	7.49	10.25	2.65
1.083	1.09	4.167	3.12	7.250	4.99	10.33	2.65
1.167	1.09	4.250	4.21	7.333	4.99	10.42	2.65
1.250	2.03	4.333	4.21	7.417	4.99	10.50	2.65
1.333	2.03	4.417	4.21	7.500	4.99	10.58	2.65
1.417	2.03	4.500	4.21	7.583	4.99	10.67	2.65
1.500	2.03	4.583	4.21	7.667	4.99	10.75	1.72
1.583	2.03	4.667	4.21	7.750	4.37	10.83	1.72
1.667	2.03	4.750	5.30	7.833	4.37	10.92	1.72
1.750	2.03	4.833	5.30	7.917	4.37	11.00	1.72
1.833	2.03	4.917	5.30	8.000	4.37	11.08	1.72
1.917	2.03	5.000	5.30	8.083	4.37	11.17	1.72
2.000	2.03	5.083	5.30	8.167	4.37	11.25	1.56
2.083	2.03	5.167	5.30	8.250	3.43	11.33	1.56
2.167	2.03	5.250	8.42	8.333	3.43	11.42	1.56
2.250	2.65	5.333	8.42	8.417	3.43	11.50	1.56
2.333	2.65	5.417	8.42	8.500	3.43	11.58	1.56
2.417	2.65	5.500	8.42	8.583	3.43	11.67	1.56
2.500	2.65	5.583	8.42	8.667	3.43	11.75	1.56
2.583	2.65	5.667	8.42	8.750	3.59	11.83	1.56
2.667	2.65	5.750	66.77	8.833	3.59	11.92	1.56
2.750	2.34	5.833	66.77	8.917	3.59	12.00	1.56
2.833	2.34	5.917	66.77	9.000	3.59	12.08	1.56
2.917	2.34	6.000	66.77	9.083	3.59	12.17	1.56
3.000	2.34	6.083	66.77	9.167	3.59		
3.083	2.34	6.167	66.77	9.250	2.34		

Unit Hyd Qpeak (cms)= 1.389

PEAK FLOW (cms)= 0.308 (i)
 TIME TO PEAK (hrs)= 6.583
 RUNOFF VOLUME (mm)= 14.823
 TOTAL RAINFALL (mm)= 78.000
 RUNOFF COEFFICIENT = 0.190

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | STANDHYD (0220) | Area (ha)= 0.88
 | ID= 1 DT= 5.0 min | Total Imp(%)= 99.00 Dir. Conn.(%)= 99.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.87	0.01
Dep. Storage (mm)=	1.00	5.00
Average Slope (%)=	1.00	2.00
Length (m)=	76.42	40.00
Mannings n =	0.013	0.350

Max.Eff.Inten.(mm/hr)=	66.77	65.92
over (min)	5.00	5.00
Storage Coeff. (min)=	2.56 (ii)	4.17 (ii)
Unit Hyd. Tpeak (min)=	5.00	5.00
Unit Hyd. peak (cms)=	0.29	0.24

TOTALS

PEAK FLOW (cms)=	0.16	0.00	0.163 (iii)
TIME TO PEAK (hrs)=	6.17	6.17	6.17
RUNOFF VOLUME (mm)=	77.00	68.16	76.91
TOTAL RAINFALL (mm)=	78.00	78.00	78.00
RUNOFF COEFFICIENT =	0.99	0.87	0.99

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.34	6.250	17.00	9.33	2.34

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 98.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

1.583	2.03	4.667	4.21	7.750	4.37	10.83	1.72
1.667	2.03	4.750	5.30	7.833	4.37	10.92	1.72
1.750	2.03	4.833	5.30	7.917	4.37	11.00	1.72
1.833	2.03	4.917	5.30	8.000	4.37	11.08	1.72
1.917	2.03	5.000	5.30	8.083	4.37	11.17	1.72
2.000	2.03	5.083	5.30	8.167	4.37	11.25	1.56
2.083	2.03	5.167	5.30	8.250	3.43	11.33	1.56
2.167	2.03	5.250	8.42	8.333	3.43	11.42	1.56
2.250	2.65	5.333	8.42	8.417	3.43	11.50	1.56
2.333	2.65	5.417	8.42	8.500	3.43	11.58	1.56
2.417	2.65	5.500	8.42	8.583	3.43	11.67	1.56
2.500	2.65	5.583	8.42	8.667	3.43	11.75	1.56
2.583	2.65	5.667	8.42	8.750	3.59	11.83	1.56
2.667	2.65	5.750	66.77	8.833	3.59	11.92	1.56
2.750	2.34	5.833	66.77	8.917	3.59	12.00	1.56
2.833	2.34	5.917	66.77	9.000	3.59	12.08	1.56
2.917	2.34	6.000	66.77	9.083	3.59	12.17	1.56
3.000	2.34	6.083	66.77	9.167	3.59		
3.083	2.34	6.167	66.77	9.250	2.34		

ADD HYD (0039)	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
1 + 2 = 3				
ID1= 1 (0220):	0.88	0.163	6.17	76.91
+ ID2= 2 (0221):	14.91	0.308	6.58	14.82
=====				
ID = 3 (0039):	15.79	0.349	6.58	18.28

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB	Area (ha)	Curve Number (CN)
NASHYD (0231)	33.58	58.0
ID= 1 DT= 5.0 min	Ia (mm)= 18.60	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)= 0.31	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

Unit Hyd Qpeak (cms)= 4.137

PEAK FLOW (cms)= 0.796 (i)
 TIME TO PEAK (hrs)= 6.417
 RUNOFF VOLUME (mm)= 14.495
 TOTAL RAINFALL (mm)= 78.000
 RUNOFF COEFFICIENT = 0.186

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.34	6.250	17.00	9.33	2.34
0.167	0.00	3.250	3.12	6.333	17.00	9.42	2.34
0.250	2.34	3.333	3.12	6.417	17.00	9.50	2.34
0.333	2.34	3.417	3.12	6.500	17.00	9.58	2.34
0.417	2.34	3.500	3.12	6.583	17.00	9.67	2.34
0.500	2.34	3.583	3.12	6.667	17.00	9.75	1.87
0.583	2.34	3.667	3.12	6.750	7.49	9.83	1.87
0.667	2.34	3.750	3.12	6.833	7.49	9.92	1.87
0.750	1.09	3.833	3.12	6.917	7.49	10.00	1.87
0.833	1.09	3.917	3.12	7.000	7.49	10.08	1.87
0.917	1.09	4.000	3.12	7.083	7.49	10.17	1.87
1.000	1.09	4.083	3.12	7.167	7.49	10.25	2.65
1.083	1.09	4.167	3.12	7.250	4.99	10.33	2.65
1.167	1.09	4.250	4.21	7.333	4.99	10.42	2.65
1.250	2.03	4.333	4.21	7.417	4.99	10.50	2.65
1.333	2.03	4.417	4.21	7.500	4.99	10.58	2.65
1.417	2.03	4.500	4.21	7.583	4.99	10.67	2.65
1.500	2.03	4.583	4.21	7.667	4.99	10.75	1.72

CALIB	Area (ha)	Dir. Conn.(%)
STANDHYD (0230)	3.07	42.00
ID= 1 DT= 5.0 min	Total Imp(%)= 42.00	Dir. Conn.(%)= 42.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)	1.29	1.78
Dep. Storage (mm)	1.00	5.00
Average Slope (%)	1.00	2.00
Length (m)	143.00	40.00
Mannings n	0.013	0.350

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.34	6.250	17.00	9.33	2.34

0.167	0.00	3.250	3.12	6.333	17.00	9.42	2.34
0.250	2.34	3.333	3.12	6.417	17.00	9.50	2.34
0.333	2.34	3.417	3.12	6.500	17.00	9.58	2.34
0.417	2.34	3.500	3.12	6.583	17.00	9.67	2.34
0.500	2.34	3.583	3.12	6.667	17.00	9.75	1.87
0.583	2.34	3.667	3.12	6.750	7.49	9.83	1.87
0.667	2.34	3.750	3.12	6.833	7.49	9.92	1.87
0.750	1.09	3.833	3.12	6.917	7.49	10.00	1.87
0.833	1.09	3.917	3.12	7.000	7.49	10.08	1.87
0.917	1.09	4.000	3.12	7.083	7.49	10.17	1.87
1.000	1.09	4.083	3.12	7.167	7.49	10.25	2.65
1.083	1.09	4.167	3.12	7.250	4.99	10.33	2.65
1.167	1.09	4.250	4.21	7.333	4.99	10.42	2.65
1.250	2.03	4.333	4.21	7.417	4.99	10.50	2.65
1.333	2.03	4.417	4.21	7.500	4.99	10.58	2.65
1.417	2.03	4.500	4.21	7.583	4.99	10.67	2.65
1.500	2.03	4.583	4.21	7.667	4.99	10.75	1.72
1.583	2.03	4.667	4.21	7.750	4.37	10.83	1.72
1.667	2.03	4.750	5.30	7.833	4.37	10.92	1.72
1.750	2.03	4.833	5.30	7.917	4.37	11.00	1.72
1.833	2.03	4.917	5.30	8.000	4.37	11.08	1.72
1.917	2.03	5.000	5.30	8.083	4.37	11.17	1.72
2.000	2.03	5.083	5.30	8.167	4.37	11.25	1.56
2.083	2.03	5.167	5.30	8.250	3.43	11.33	1.56
2.167	2.03	5.250	8.42	8.333	3.43	11.42	1.56
2.250	2.65	5.333	8.42	8.417	3.43	11.50	1.56
2.333	2.65	5.417	8.42	8.500	3.43	11.58	1.56
2.417	2.65	5.500	8.42	8.583	3.43	11.67	1.56
2.500	2.65	5.583	8.42	8.667	3.43	11.75	1.56
2.583	2.65	5.667	8.42	8.750	3.59	11.83	1.56
2.667	2.65	5.750	66.77	8.833	3.59	11.92	1.56
2.750	2.34	5.833	66.77	8.917	3.59	12.00	1.56
2.833	2.34	5.917	66.77	9.000	3.59	12.08	1.56
2.917	2.34	6.000	66.77	9.083	3.59	12.17	1.56
3.000	2.34	6.083	66.77	9.167	3.59		
3.083	2.34	6.167	66.77	9.250	2.34		

Max.Eff.Inten.(mm/hr)= 66.77 22.38
over (min) 5.00 20.00
Storage Coeff. (min)= 3.72 (ii) 19.44 (ii)
Unit Hyd. Tpeak (min)= 5.00 20.00
Unit Hyd. peak (cms)= 0.25 0.06

TOTALS
PEAK FLOW (cms)= 0.24 0.07 0.301 (iii)
TIME TO PEAK (hrs)= 6.17 6.33 6.17
RUNOFF VOLUME (mm)= 77.00 23.30 45.85
TOTAL RAINFALL (mm)= 78.00 78.00 78.00
RUNOFF COEFFICIENT = 0.99 0.30 0.59

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 62.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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-----
| ADD HYD ( 0042) |
| 1 + 2 = 3 |
-----
          AREA   QPEAK   TPEAK   R.V.
          (ha)   (cms)   (hrs)   (mm)
-----
ID1= 1 ( 0230):   3.07   0.301   6.17   45.85
+ ID2= 2 ( 0231):  33.58   0.796   6.42   14.50
-----
ID = 3 ( 0042):  36.65   0.943   6.33   17.12
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NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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| CALIB |
| NASHYD ( 0241) | Area (ha)= 11.24 Curve Number (CN)= 56.0
| ID= 1 DT= 5.0 min | Ia (mm)= 22.20 # of Linear Res.(N)= 3.00
-----
U.H. Tp(hrs)= 0.41
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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

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-----
          TIME RAIN | TIME RAIN | TIME RAIN | TIME RAIN
          hrs mm/hr | hrs mm/hr | hrs mm/hr | hrs mm/hr
-----
0.083 0.00 | 3.167 2.34 | 6.250 17.00 | 9.33 2.34
0.167 0.00 | 3.250 3.12 | 6.333 17.00 | 9.42 2.34
0.250 2.34 | 3.333 3.12 | 6.417 17.00 | 9.50 2.34
0.333 2.34 | 3.417 3.12 | 6.500 17.00 | 9.58 2.34
0.417 2.34 | 3.500 3.12 | 6.583 17.00 | 9.67 2.34
0.500 2.34 | 3.583 3.12 | 6.667 17.00 | 9.75 1.87
0.583 2.34 | 3.667 3.12 | 6.750 7.49 | 9.83 1.87
0.667 2.34 | 3.750 3.12 | 6.833 7.49 | 9.92 1.87
0.750 1.09 | 3.833 3.12 | 6.917 7.49 | 10.00 1.87
0.833 1.09 | 3.917 3.12 | 7.000 7.49 | 10.08 1.87
0.917 1.09 | 4.000 3.12 | 7.083 7.49 | 10.17 1.87
1.000 1.09 | 4.083 3.12 | 7.167 7.49 | 10.25 2.65
1.083 1.09 | 4.167 3.12 | 7.250 4.99 | 10.33 2.65
1.167 1.09 | 4.250 4.21 | 7.333 4.99 | 10.42 2.65
1.250 2.03 | 4.333 4.21 | 7.417 4.99 | 10.50 2.65
1.333 2.03 | 4.417 4.21 | 7.500 4.99 | 10.58 2.65
1.417 2.03 | 4.500 4.21 | 7.583 4.99 | 10.67 2.65
1.500 2.03 | 4.583 4.21 | 7.667 4.99 | 10.75 1.72
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1.583	2.03	4.667	4.21	7.750	4.37	10.83	1.72
1.667	2.03	4.750	5.30	7.833	4.37	10.92	1.72
1.750	2.03	4.833	5.30	7.917	4.37	11.00	1.72
1.833	2.03	4.917	5.30	8.000	4.37	11.08	1.72
1.917	2.03	5.000	5.30	8.083	4.37	11.17	1.72
2.000	2.03	5.083	5.30	8.167	4.37	11.25	1.56
2.083	2.03	5.167	5.30	8.250	3.43	11.33	1.56
2.167	2.03	5.250	8.42	8.333	3.43	11.42	1.56
2.250	2.65	5.333	8.42	8.417	3.43	11.50	1.56
2.333	2.65	5.417	8.42	8.500	3.43	11.58	1.56
2.417	2.65	5.500	8.42	8.583	3.43	11.67	1.56
2.500	2.65	5.583	8.42	8.667	3.43	11.75	1.56
2.583	2.65	5.667	8.42	8.750	3.59	11.83	1.56
2.667	2.65	5.750	66.77	8.833	3.59	11.92	1.56
2.750	2.34	5.833	66.77	8.917	3.59	12.00	1.56
2.833	2.34	5.917	66.77	9.000	3.59	12.08	1.56
2.917	2.34	6.000	66.77	9.083	3.59	12.17	1.56
3.000	2.34	6.083	66.77	9.167	3.59		
3.083	2.34	6.167	66.77	9.250	2.34		

0.167	0.00	3.250	3.12	6.333	17.00	9.42	2.34
0.250	2.34	3.333	3.12	6.417	17.00	9.50	2.34
0.333	2.34	3.417	3.12	6.500	17.00	9.58	2.34
0.417	2.34	3.500	3.12	6.583	17.00	9.67	2.34
0.500	2.34	3.583	3.12	6.667	17.00	9.75	1.87
0.583	2.34	3.667	3.12	6.750	7.49	9.83	1.87
0.667	2.34	3.750	3.12	6.833	7.49	9.92	1.87
0.750	1.09	3.833	3.12	6.917	7.49	10.00	1.87
0.833	1.09	3.917	3.12	7.000	7.49	10.08	1.87
0.917	1.09	4.000	3.12	7.083	7.49	10.17	1.87
1.000	1.09	4.083	3.12	7.167	7.49	10.25	2.65
1.083	1.09	4.167	3.12	7.250	4.99	10.33	2.65
1.167	1.09	4.250	4.21	7.333	4.99	10.42	2.65
1.250	2.03	4.333	4.21	7.417	4.99	10.50	2.65
1.333	2.03	4.417	4.21	7.500	4.99	10.58	2.65
1.417	2.03	4.500	4.21	7.583	4.99	10.67	2.65
1.500	2.03	4.583	4.21	7.667	4.99	10.75	1.72
1.583	2.03	4.667	4.21	7.750	4.37	10.83	1.72
1.667	2.03	4.750	5.30	7.833	4.37	10.92	1.72
1.750	2.03	4.833	5.30	7.917	4.37	11.00	1.72
1.833	2.03	4.917	5.30	8.000	4.37	11.08	1.72
1.917	2.03	5.000	5.30	8.083	4.37	11.17	1.72
2.000	2.03	5.083	5.30	8.167	4.37	11.25	1.56
2.083	2.03	5.167	5.30	8.250	3.43	11.33	1.56
2.167	2.03	5.250	8.42	8.333	3.43	11.42	1.56
2.250	2.65	5.333	8.42	8.417	3.43	11.50	1.56
2.333	2.65	5.417	8.42	8.500	3.43	11.58	1.56
2.417	2.65	5.500	8.42	8.583	3.43	11.67	1.56
2.500	2.65	5.583	8.42	8.667	3.43	11.75	1.56
2.583	2.65	5.667	8.42	8.750	3.59	11.83	1.56
2.667	2.65	5.750	66.77	8.833	3.59	11.92	1.56
2.750	2.34	5.833	66.77	8.917	3.59	12.00	1.56
2.833	2.34	5.917	66.77	9.000	3.59	12.08	1.56
2.917	2.34	6.000	66.77	9.083	3.59	12.17	1.56
3.000	2.34	6.083	66.77	9.167	3.59		
3.083	2.34	6.167	66.77	9.250	2.34		

Unit Hyd Qpeak (cms)= 1.047

PEAK FLOW (cms)= 0.182 (i)
 TIME TO PEAK (hrs)= 6.583
 RUNOFF VOLUME (mm)= 12.191
 TOTAL RAINFALL (mm)= 78.000
 RUNOFF COEFFICIENT = 0.156

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | STANDHYD (0240) | Area (ha)= 0.88
 | ID= 1 DT= 5.0 min | Total Imp(%)= 37.00 Dir. Conn.(%)= 37.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.33	0.55
Dep. Storage (mm)=	1.00	5.00
Average Slope (%)=	1.00	2.00
Length (m)=	76.58	40.00
Mannings n =	0.013	0.350

Max.Eff.Inten.(mm/hr)=	66.77	17.99
over (min)	5.00	20.00
Storage Coeff. (min)=	2.56 (ii)	19.71 (ii)
Unit Hyd. Tpeak (min)=	5.00	20.00
Unit Hyd. peak (cms)=	0.29	0.06

TOTALS

PEAK FLOW (cms)=	0.06	0.02	0.076 (iii)
TIME TO PEAK (hrs)=	6.17	6.33	6.17
RUNOFF VOLUME (mm)=	77.00	18.98	40.43
TOTAL RAINFALL (mm)=	78.00	78.00	78.00
RUNOFF COEFFICIENT =	0.99	0.24	0.52

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.34	6.250	17.00	9.33	2.34

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 55.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

1.583	2.03	4.667	4.21	7.750	4.37	10.83	1.72
1.667	2.03	4.750	5.30	7.833	4.37	10.92	1.72
1.750	2.03	4.833	5.30	7.917	4.37	11.00	1.72
1.833	2.03	4.917	5.30	8.000	4.37	11.08	1.72
1.917	2.03	5.000	5.30	8.083	4.37	11.17	1.72
2.000	2.03	5.083	5.30	8.167	4.37	11.25	1.56
2.083	2.03	5.167	5.30	8.250	3.43	11.33	1.56
2.167	2.03	5.250	8.42	8.333	3.43	11.42	1.56
2.250	2.65	5.333	8.42	8.417	3.43	11.50	1.56
2.333	2.65	5.417	8.42	8.500	3.43	11.58	1.56
2.417	2.65	5.500	8.42	8.583	3.43	11.67	1.56
2.500	2.65	5.583	8.42	8.667	3.43	11.75	1.56
2.583	2.65	5.667	8.42	8.750	3.59	11.83	1.56
2.667	2.65	5.750	66.77	8.833	3.59	11.92	1.56
2.750	2.34	5.833	66.77	8.917	3.59	12.00	1.56
2.833	2.34	5.917	66.77	9.000	3.59	12.08	1.56
2.917	2.34	6.000	66.77	9.083	3.59	12.17	1.56
3.000	2.34	6.083	66.77	9.167	3.59		
3.083	2.34	6.167	66.77	9.250	2.34		

ADD HYD (0045)	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
1 + 2 = 3				
ID1= 1 (0240):	0.88	0.076	6.17	40.43
+ ID2= 2 (0241):	11.24	0.182	6.58	12.19
ID = 3 (0045):	12.12	0.212	6.58	14.24

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB	Area (ha)	Curve Number (CN)
NASHYD (0251)	16.61	51.0
ID= 1 DT= 5.0 min	Ia (mm)= 24.70	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)= 0.51	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

Unit Hyd Qpeak (cms)= 1.244
 PEAK FLOW (cms)= 0.181 (i)
 TIME TO PEAK (hrs)= 6.750
 RUNOFF VOLUME (mm)= 9.554
 TOTAL RAINFALL (mm)= 78.000
 RUNOFF COEFFICIENT = 0.122

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.34	6.250	17.00	9.33	2.34
0.167	0.00	3.250	3.12	6.333	17.00	9.42	2.34
0.250	2.34	3.333	3.12	6.417	17.00	9.50	2.34
0.333	2.34	3.417	3.12	6.500	17.00	9.58	2.34
0.417	2.34	3.500	3.12	6.583	17.00	9.67	2.34
0.500	2.34	3.583	3.12	6.667	17.00	9.75	1.87
0.583	2.34	3.667	3.12	6.750	7.49	9.83	1.87
0.667	2.34	3.750	3.12	6.833	7.49	9.92	1.87
0.750	1.09	3.833	3.12	6.917	7.49	10.00	1.87
0.833	1.09	3.917	3.12	7.000	7.49	10.08	1.87
0.917	1.09	4.000	3.12	7.083	7.49	10.17	1.87
1.000	1.09	4.083	3.12	7.167	7.49	10.25	2.65
1.083	1.09	4.167	3.12	7.250	4.99	10.33	2.65
1.167	1.09	4.250	4.21	7.333	4.99	10.42	2.65
1.250	2.03	4.333	4.21	7.417	4.99	10.50	2.65
1.333	2.03	4.417	4.21	7.500	4.99	10.58	2.65
1.417	2.03	4.500	4.21	7.583	4.99	10.67	2.65
1.500	2.03	4.583	4.21	7.667	4.99	10.75	1.72

CALIB	Area (ha)	IMPERVIOUS	PERVIOUS (i)
STANDHYD (0250)	0.93		
ID= 1 DT= 5.0 min	Total Imp(%)= 26.00	Dir. Conn.(%)= 26.00	
Surface Area	(ha)= 0.24		0.69
Dep. Storage	(mm)= 1.00		5.00
Average Slope	(%)= 1.00		2.00
Length	(m)= 78.76		40.00
Mannings n	= 0.013		0.350

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.34	6.250	17.00	9.33	2.34

0.167	0.00	3.250	3.12	6.333	17.00	9.42	2.34
0.250	2.34	3.333	3.12	6.417	17.00	9.50	2.34
0.333	2.34	3.417	3.12	6.500	17.00	9.58	2.34
0.417	2.34	3.500	3.12	6.583	17.00	9.67	2.34
0.500	2.34	3.583	3.12	6.667	17.00	9.75	1.87
0.583	2.34	3.667	3.12	6.750	7.49	9.83	1.87
0.667	2.34	3.750	3.12	6.833	7.49	9.92	1.87
0.750	1.09	3.833	3.12	6.917	7.49	10.00	1.87
0.833	1.09	3.917	3.12	7.000	7.49	10.08	1.87
0.917	1.09	4.000	3.12	7.083	7.49	10.17	1.87
1.000	1.09	4.083	3.12	7.167	7.49	10.25	2.65
1.083	1.09	4.167	3.12	7.250	4.99	10.33	2.65
1.167	1.09	4.250	4.21	7.333	4.99	10.42	2.65
1.250	2.03	4.333	4.21	7.417	4.99	10.50	2.65
1.333	2.03	4.417	4.21	7.500	4.99	10.58	2.65
1.417	2.03	4.500	4.21	7.583	4.99	10.67	2.65
1.500	2.03	4.583	4.21	7.667	4.99	10.75	1.72
1.583	2.03	4.667	4.21	7.750	4.37	10.83	1.72
1.667	2.03	4.750	5.30	7.833	4.37	10.92	1.72
1.750	2.03	4.833	5.30	7.917	4.37	11.00	1.72
1.833	2.03	4.917	5.30	8.000	4.37	11.08	1.72
1.917	2.03	5.000	5.30	8.083	4.37	11.17	1.72
2.000	2.03	5.083	5.30	8.167	4.37	11.25	1.56
2.083	2.03	5.167	5.30	8.250	3.43	11.33	1.56
2.167	2.03	5.250	8.42	8.333	3.43	11.42	1.56
2.250	2.65	5.333	8.42	8.417	3.43	11.50	1.56
2.333	2.65	5.417	8.42	8.500	3.43	11.58	1.56
2.417	2.65	5.500	8.42	8.583	3.43	11.67	1.56
2.500	2.65	5.583	8.42	8.667	3.43	11.75	1.56
2.583	2.65	5.667	8.42	8.750	3.59	11.83	1.56
2.667	2.65	5.750	66.77	8.833	3.59	11.92	1.56
2.750	2.34	5.833	66.77	8.917	3.59	12.00	1.56
2.833	2.34	5.917	66.77	9.000	3.59	12.08	1.56
2.917	2.34	6.000	66.77	9.083	3.59	12.17	1.56
3.000	2.34	6.083	66.77	9.167	3.59		
3.083	2.34	6.167	66.77	9.250	2.34		

Max.Eff.Inten.(mm/hr)= 66.77 25.19
over (min) 5.00 20.00
Storage Coeff. (min)= 2.60 (ii) 17.59 (ii)
Unit Hyd. Tpeak (min)= 5.00 20.00
Unit Hyd. peak (cms)= 0.29 0.06

TOTALS
PEAK FLOW (cms)= 0.04 0.03 0.072 (iii)
TIME TO PEAK (hrs)= 6.17 6.33 6.17
RUNOFF VOLUME (mm)= 77.00 24.69 38.27
TOTAL RAINFALL (mm)= 78.00 78.00 78.00
RUNOFF COEFFICIENT = 0.99 0.32 0.49

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 64.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0048)				
1 + 2 = 3				
	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0250):	0.93	0.072	6.17	38.27
+ ID2= 2 (0251):	16.61	0.181	6.75	9.55
=====				
ID = 3 (0048):	17.54	0.210	6.67	11.08

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB				
NASHYD (0261)				
	Area	(ha)=	35.85	Curve Number (CN)= 59.0
ID= 1 DT= 5.0 min	Ia	(mm)=	18.50	# of Linear Res.(N)= 3.00

	U.H. Tp(hrs)=	1.24		

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.34	6.250	17.00	9.33	2.34
0.167	0.00	3.250	3.12	6.333	17.00	9.42	2.34
0.250	2.34	3.333	3.12	6.417	17.00	9.50	2.34
0.333	2.34	3.417	3.12	6.500	17.00	9.58	2.34
0.417	2.34	3.500	3.12	6.583	17.00	9.67	2.34
0.500	2.34	3.583	3.12	6.667	17.00	9.75	1.87
0.583	2.34	3.667	3.12	6.750	7.49	9.83	1.87
0.667	2.34	3.750	3.12	6.833	7.49	9.92	1.87
0.750	1.09	3.833	3.12	6.917	7.49	10.00	1.87
0.833	1.09	3.917	3.12	7.000	7.49	10.08	1.87
0.917	1.09	4.000	3.12	7.083	7.49	10.17	1.87
1.000	1.09	4.083	3.12	7.167	7.49	10.25	2.65
1.083	1.09	4.167	3.12	7.250	4.99	10.33	2.65
1.167	1.09	4.250	4.21	7.333	4.99	10.42	2.65
1.250	2.03	4.333	4.21	7.417	4.99	10.50	2.65
1.333	2.03	4.417	4.21	7.500	4.99	10.58	2.65
1.417	2.03	4.500	4.21	7.583	4.99	10.67	2.65
1.500	2.03	4.583	4.21	7.667	4.99	10.75	1.72

1.583	2.03	4.667	4.21	7.750	4.37	10.83	1.72
1.667	2.03	4.750	5.30	7.833	4.37	10.92	1.72
1.750	2.03	4.833	5.30	7.917	4.37	11.00	1.72
1.833	2.03	4.917	5.30	8.000	4.37	11.08	1.72
1.917	2.03	5.000	5.30	8.083	4.37	11.17	1.72
2.000	2.03	5.083	5.30	8.167	4.37	11.25	1.56
2.083	2.03	5.167	5.30	8.250	3.43	11.33	1.56
2.167	2.03	5.250	8.42	8.333	3.43	11.42	1.56
2.250	2.65	5.333	8.42	8.417	3.43	11.50	1.56
2.333	2.65	5.417	8.42	8.500	3.43	11.58	1.56
2.417	2.65	5.500	8.42	8.583	3.43	11.67	1.56
2.500	2.65	5.583	8.42	8.667	3.43	11.75	1.56
2.583	2.65	5.667	8.42	8.750	3.59	11.83	1.56
2.667	2.65	5.750	66.77	8.833	3.59	11.92	1.56
2.750	2.34	5.833	66.77	8.917	3.59	12.00	1.56
2.833	2.34	5.917	66.77	9.000	3.59	12.08	1.56
2.917	2.34	6.000	66.77	9.083	3.59	12.17	1.56
3.000	2.34	6.083	66.77	9.167	3.59		
3.083	2.34	6.167	66.77	9.250	2.34		

0.167	0.00	3.250	3.12	6.333	17.00	9.42	2.34
0.250	2.34	3.333	3.12	6.417	17.00	9.50	2.34
0.333	2.34	3.417	3.12	6.500	17.00	9.58	2.34
0.417	2.34	3.500	3.12	6.583	17.00	9.67	2.34
0.500	2.34	3.583	3.12	6.667	17.00	9.75	1.87
0.583	2.34	3.667	3.12	6.750	7.49	9.83	1.87
0.667	2.34	3.750	3.12	6.833	7.49	9.92	1.87
0.750	1.09	3.833	3.12	6.917	7.49	10.00	1.87
0.833	1.09	3.917	3.12	7.000	7.49	10.08	1.87
0.917	1.09	4.000	3.12	7.083	7.49	10.17	1.87
1.000	1.09	4.083	3.12	7.167	7.49	10.25	2.65
1.083	1.09	4.167	3.12	7.250	4.99	10.33	2.65
1.167	1.09	4.250	4.21	7.333	4.99	10.42	2.65
1.250	2.03	4.333	4.21	7.417	4.99	10.50	2.65
1.333	2.03	4.417	4.21	7.500	4.99	10.58	2.65
1.417	2.03	4.500	4.21	7.583	4.99	10.67	2.65
1.500	2.03	4.583	4.21	7.667	4.99	10.75	1.72
1.583	2.03	4.667	4.21	7.750	4.37	10.83	1.72
1.667	2.03	4.750	5.30	7.833	4.37	10.92	1.72
1.750	2.03	4.833	5.30	7.917	4.37	11.00	1.72
1.833	2.03	4.917	5.30	8.000	4.37	11.08	1.72
1.917	2.03	5.000	5.30	8.083	4.37	11.17	1.72
2.000	2.03	5.083	5.30	8.167	4.37	11.25	1.56
2.083	2.03	5.167	5.30	8.250	3.43	11.33	1.56
2.167	2.03	5.250	8.42	8.333	3.43	11.42	1.56
2.250	2.65	5.333	8.42	8.417	3.43	11.50	1.56
2.333	2.65	5.417	8.42	8.500	3.43	11.58	1.56
2.417	2.65	5.500	8.42	8.583	3.43	11.67	1.56
2.500	2.65	5.583	8.42	8.667	3.43	11.75	1.56
2.583	2.65	5.667	8.42	8.750	3.59	11.83	1.56
2.667	2.65	5.750	66.77	8.833	3.59	11.92	1.56
2.750	2.34	5.833	66.77	8.917	3.59	12.00	1.56
2.833	2.34	5.917	66.77	9.000	3.59	12.08	1.56
2.917	2.34	6.000	66.77	9.083	3.59	12.17	1.56
3.000	2.34	6.083	66.77	9.167	3.59		
3.083	2.34	6.167	66.77	9.250	2.34		

Unit Hyd Qpeak (cms)= 1.104

PEAK FLOW (cms)= 0.377 (i)
 TIME TO PEAK (hrs)= 7.667
 RUNOFF VOLUME (mm)= 15.000
 TOTAL RAINFALL (mm)= 78.000
 RUNOFF COEFFICIENT = 0.192

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | STANDHYD (0260) | Area (ha)= 3.40
 | ID= 1 DT= 5.0 min | Total Imp(%)= 27.00 Dir. Conn.(%)= 27.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.92	2.48
Dep. Storage (mm)=	1.00	5.00
Average Slope (%)=	1.00	2.00
Length (m)=	150.51	40.00
Mannings n =	0.013	0.350

Max.Eff.Inten.(mm/hr)=	66.77	36.07
over (min)	5.00	20.00
Storage Coeff. (min)=	3.84 (ii)	16.82 (ii)
Unit Hyd. Tpeak (min)=	5.00	20.00
Unit Hyd. peak (cms)=	0.25	0.06

TOTALS

PEAK FLOW (cms)=	0.17	0.17	0.318 (iii)
TIME TO PEAK (hrs)=	6.17	6.33	6.17
RUNOFF VOLUME (mm)=	77.00	34.78	46.18
TOTAL RAINFALL (mm)=	78.00	78.00	78.00
RUNOFF COEFFICIENT =	0.99	0.45	0.59

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.34	6.250	17.00	9.33	2.34

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 76.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

1.583	2.03	4.667	4.21	7.750	4.37	10.83	1.72
1.667	2.03	4.750	5.30	7.833	4.37	10.92	1.72
1.750	2.03	4.833	5.30	7.917	4.37	11.00	1.72
1.833	2.03	4.917	5.30	8.000	4.37	11.08	1.72
1.917	2.03	5.000	5.30	8.083	4.37	11.17	1.72
2.000	2.03	5.083	5.30	8.167	4.37	11.25	1.56
2.083	2.03	5.167	5.30	8.250	3.43	11.33	1.56
2.167	2.03	5.250	8.42	8.333	3.43	11.42	1.56
2.250	2.03	5.333	8.42	8.417	3.43	11.50	1.56
2.333	2.65	5.417	8.42	8.500	3.43	11.58	1.56
2.417	2.65	5.500	8.42	8.583	3.43	11.67	1.56
2.500	2.65	5.583	8.42	8.667	3.43	11.75	1.56
2.583	2.65	5.667	8.42	8.750	3.59	11.83	1.56
2.667	2.65	5.750	66.77	8.833	3.59	11.92	1.56
2.750	2.34	5.833	66.77	8.917	3.59	12.00	1.56
2.833	2.34	5.917	66.77	9.000	3.59	12.08	1.56
2.917	2.34	6.000	66.77	9.083	3.59	12.17	1.56
3.000	2.34	6.083	66.77	9.167	3.59		
3.083	2.34	6.167	66.77	9.250	2.34		

ADD HYD (0051)				
1 + 2 = 3				
	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0260):	3.40	0.318	6.17	46.18
+ ID2= 2 (0261):	35.85	0.377	7.67	15.00
=====				
ID = 3 (0051):	39.25	0.421	7.50	17.70

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB			
NASHYD (0271)			
ID= 1 DT= 5.0 min	Area (ha)=	26.76	Curve Number (CN)= 59.0
	Ia (mm)=	18.90	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)=	0.23	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

Unit Hyd Qpeak (cms)= 4.444

PEAK FLOW (cms)= 0.776 (i)
 TIME TO PEAK (hrs)= 6.250
 RUNOFF VOLUME (mm)= 14.808
 TOTAL RAINFALL (mm)= 78.000
 RUNOFF COEFFICIENT = 0.190

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.34	6.250	17.00	9.33	2.34
0.167	0.00	3.250	3.12	6.333	17.00	9.42	2.34
0.250	2.34	3.333	3.12	6.417	17.00	9.50	2.34
0.333	2.34	3.417	3.12	6.500	17.00	9.58	2.34
0.417	2.34	3.500	3.12	6.583	17.00	9.67	2.34
0.500	2.34	3.583	3.12	6.667	17.00	9.75	1.87
0.583	2.34	3.667	3.12	6.750	7.49	9.83	1.87
0.667	2.34	3.750	3.12	6.833	7.49	9.92	1.87
0.750	1.09	3.833	3.12	6.917	7.49	10.00	1.87
0.833	1.09	3.917	3.12	7.000	7.49	10.08	1.87
0.917	1.09	4.000	3.12	7.083	7.49	10.17	1.87
1.000	1.09	4.083	3.12	7.167	7.49	10.25	2.65
1.083	1.09	4.167	3.12	7.250	4.99	10.33	2.65
1.167	1.09	4.250	4.21	7.333	4.99	10.42	2.65
1.250	2.03	4.333	4.21	7.417	4.99	10.50	2.65
1.333	2.03	4.417	4.21	7.500	4.99	10.58	2.65
1.417	2.03	4.500	4.21	7.583	4.99	10.67	2.65
1.500	2.03	4.583	4.21	7.667	4.99	10.75	1.72

CALIB			
STANDHYD (0270)			
ID= 1 DT= 5.0 min	Area (ha)=	3.95	
	Total Imp(%)=	31.00	Dir. Conn.(%)= 31.00

IMPERVIOUS PERVIOUS (i)
 Surface Area (ha)= 1.22 2.73
 Dep. Storage (mm)= 1.00 5.00
 Average Slope (%)= 1.00 2.00
 Length (m)= 162.31 40.00
 Mannings n = 0.013 0.350

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.34	6.250	17.00	9.33	2.34

0.167	0.00	3.250	3.12	6.333	17.00	9.42	2.34
0.250	2.34	3.333	3.12	6.417	17.00	9.50	2.34
0.333	2.34	3.417	3.12	6.500	17.00	9.58	2.34
0.417	2.34	3.500	3.12	6.583	17.00	9.67	2.34
0.500	2.34	3.583	3.12	6.667	17.00	9.75	1.87
0.583	2.34	3.667	3.12	6.750	7.49	9.83	1.87
0.667	2.34	3.750	3.12	6.833	7.49	9.92	1.87
0.750	1.09	3.833	3.12	6.917	7.49	10.00	1.87
0.833	1.09	3.917	3.12	7.000	7.49	10.08	1.87
0.917	1.09	4.000	3.12	7.083	7.49	10.17	1.87
1.000	1.09	4.083	3.12	7.167	7.49	10.25	2.65
1.083	1.09	4.167	3.12	7.250	4.99	10.33	2.65
1.167	1.09	4.250	4.21	7.333	4.99	10.42	2.65
1.250	2.03	4.333	4.21	7.417	4.99	10.50	2.65
1.333	2.03	4.417	4.21	7.500	4.99	10.58	2.65
1.417	2.03	4.500	4.21	7.583	4.99	10.67	2.65
1.500	2.03	4.583	4.21	7.667	4.99	10.75	1.72
1.583	2.03	4.667	4.21	7.750	4.37	10.83	1.72
1.667	2.03	4.750	5.30	7.833	4.37	10.92	1.72
1.750	2.03	4.833	5.30	7.917	4.37	11.00	1.72
1.833	2.03	4.917	5.30	8.000	4.37	11.08	1.72
1.917	2.03	5.000	5.30	8.083	4.37	11.17	1.72
2.000	2.03	5.083	5.30	8.167	4.37	11.25	1.56
2.083	2.03	5.167	5.30	8.250	3.43	11.33	1.56
2.167	2.03	5.250	8.42	8.333	3.43	11.42	1.56
2.250	2.65	5.333	8.42	8.417	3.43	11.50	1.56
2.333	2.65	5.417	8.42	8.500	3.43	11.58	1.56
2.417	2.65	5.500	8.42	8.583	3.43	11.67	1.56
2.500	2.65	5.583	8.42	8.667	3.43	11.75	1.56
2.583	2.65	5.667	8.42	8.750	3.59	11.83	1.56
2.667	2.65	5.750	66.77	8.833	3.59	11.92	1.56
2.750	2.34	5.833	66.77	8.917	3.59	12.00	1.56
2.833	2.34	5.917	66.77	9.000	3.59	12.08	1.56
2.917	2.34	6.000	66.77	9.083	3.59	12.17	1.56
3.000	2.34	6.083	66.77	9.167	3.59		
3.083	2.34	6.167	66.77	9.250	2.34		

Max.Eff.Inten.(mm/hr)= 66.77 19.16
over (min) 5.00 25.00
Storage Coeff. (min)= 4.02 (ii) 20.74 (ii)
Unit Hyd. Tpeak (min)= 5.00 25.00
Unit Hyd. peak (cms)= 0.24 0.05

TOTALS
PEAK FLOW (cms)= 0.23 0.09 0.294 (iii)
TIME TO PEAK (hrs)= 6.17 6.42 6.17
RUNOFF VOLUME (mm)= 77.00 20.14 37.76
TOTAL RAINFALL (mm)= 78.00 78.00 78.00
RUNOFF COEFFICIENT = 0.99 0.26 0.48

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 57.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0054)				
1 + 2 = 3				
	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0270):	3.95	0.294	6.17	37.76
+ ID2= 2 (0271):	26.76	0.776	6.25	14.81
=====				
ID = 3 (0054):	30.71	0.973	6.17	17.76

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB				
NASHYD (0281)				
	Area	(ha)=	6.71	Curve Number (CN)= 67.0
ID= 1 DT= 5.0 min	Ia	(mm)=	12.90	# of Linear Res.(N)= 3.00

	U.H. Tp(hrs)=	0.43		

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.34	6.250	17.00	9.33	2.34
0.167	0.00	3.250	3.12	6.333	17.00	9.42	2.34
0.250	2.34	3.333	3.12	6.417	17.00	9.50	2.34
0.333	2.34	3.417	3.12	6.500	17.00	9.58	2.34
0.417	2.34	3.500	3.12	6.583	17.00	9.67	2.34
0.500	2.34	3.583	3.12	6.667	17.00	9.75	1.87
0.583	2.34	3.667	3.12	6.750	7.49	9.83	1.87
0.667	2.34	3.750	3.12	6.833	7.49	9.92	1.87
0.750	1.09	3.833	3.12	6.917	7.49	10.00	1.87
0.833	1.09	3.917	3.12	7.000	7.49	10.08	1.87
0.917	1.09	4.000	3.12	7.083	7.49	10.17	1.87
1.000	1.09	4.083	3.12	7.167	7.49	10.25	2.65
1.083	1.09	4.167	3.12	7.250	4.99	10.33	2.65
1.167	1.09	4.250	4.21	7.333	4.99	10.42	2.65
1.250	2.03	4.333	4.21	7.417	4.99	10.50	2.65
1.333	2.03	4.417	4.21	7.500	4.99	10.58	2.65
1.417	2.03	4.500	4.21	7.583	4.99	10.67	2.65
1.500	2.03	4.583	4.21	7.667	4.99	10.75	1.72

1.583	2.03	4.667	4.21	7.750	4.37	10.83	1.72
1.667	2.03	4.750	5.30	7.833	4.37	10.92	1.72
1.750	2.03	4.833	5.30	7.917	4.37	11.00	1.72
1.833	2.03	4.917	5.30	8.000	4.37	11.08	1.72
1.917	2.03	5.000	5.30	8.083	4.37	11.17	1.72
2.000	2.03	5.083	5.30	8.167	4.37	11.25	1.56
2.083	2.03	5.167	5.30	8.250	3.43	11.33	1.56
2.167	2.03	5.250	8.42	8.333	3.43	11.42	1.56
2.250	2.65	5.333	8.42	8.417	3.43	11.50	1.56
2.333	2.65	5.417	8.42	8.500	3.43	11.58	1.56
2.417	2.65	5.500	8.42	8.583	3.43	11.67	1.56
2.500	2.65	5.583	8.42	8.667	3.43	11.75	1.56
2.583	2.65	5.667	8.42	8.750	3.59	11.83	1.56
2.667	2.65	5.750	66.77	8.833	3.59	11.92	1.56
2.750	2.34	5.833	66.77	8.917	3.59	12.00	1.56
2.833	2.34	5.917	66.77	9.000	3.59	12.08	1.56
2.917	2.34	6.000	66.77	9.083	3.59	12.17	1.56
3.000	2.34	6.083	66.77	9.167	3.59		
3.083	2.34	6.167	66.77	9.250	2.34		

0.167	0.00	3.250	3.12	6.333	17.00	9.42	2.34
0.250	2.34	3.333	3.12	6.417	17.00	9.50	2.34
0.333	2.34	3.417	3.12	6.500	17.00	9.58	2.34
0.417	2.34	3.500	3.12	6.583	17.00	9.67	2.34
0.500	2.34	3.583	3.12	6.667	17.00	9.75	1.87
0.583	2.34	3.667	3.12	6.750	7.49	9.83	1.87
0.667	2.34	3.750	3.12	6.833	7.49	9.92	1.87
0.750	1.09	3.833	3.12	6.917	7.49	10.00	1.87
0.833	1.09	3.917	3.12	7.000	7.49	10.08	1.87
0.917	1.09	4.000	3.12	7.083	7.49	10.17	1.87
1.000	1.09	4.083	3.12	7.167	7.49	10.25	2.65
1.083	1.09	4.167	3.12	7.250	4.99	10.33	2.65
1.167	1.09	4.250	4.21	7.333	4.99	10.42	2.65
1.250	2.03	4.333	4.21	7.417	4.99	10.50	2.65
1.333	2.03	4.417	4.21	7.500	4.99	10.58	2.65
1.417	2.03	4.500	4.21	7.583	4.99	10.67	2.65
1.500	2.03	4.583	4.21	7.667	4.99	10.75	1.72
1.583	2.03	4.667	4.21	7.750	4.37	10.83	1.72
1.667	2.03	4.750	5.30	7.833	4.37	10.92	1.72
1.750	2.03	4.833	5.30	7.917	4.37	11.00	1.72
1.833	2.03	4.917	5.30	8.000	4.37	11.08	1.72
1.917	2.03	5.000	5.30	8.083	4.37	11.17	1.72
2.000	2.03	5.083	5.30	8.167	4.37	11.25	1.56
2.083	2.03	5.167	5.30	8.250	3.43	11.33	1.56
2.167	2.03	5.250	8.42	8.333	3.43	11.42	1.56
2.250	2.65	5.333	8.42	8.417	3.43	11.50	1.56
2.333	2.65	5.417	8.42	8.500	3.43	11.58	1.56
2.417	2.65	5.500	8.42	8.583	3.43	11.67	1.56
2.500	2.65	5.583	8.42	8.667	3.43	11.75	1.56
2.583	2.65	5.667	8.42	8.750	3.59	11.83	1.56
2.667	2.65	5.750	66.77	8.833	3.59	11.92	1.56
2.750	2.34	5.833	66.77	8.917	3.59	12.00	1.56
2.833	2.34	5.917	66.77	9.000	3.59	12.08	1.56
2.917	2.34	6.000	66.77	9.083	3.59	12.17	1.56
3.000	2.34	6.083	66.77	9.167	3.59		
3.083	2.34	6.167	66.77	9.250	2.34		

Unit Hyd Qpeak (cms)= 0.596

PEAK FLOW (cms)= 0.221 (i)
 TIME TO PEAK (hrs)= 6.500
 RUNOFF VOLUME (mm)= 22.279
 TOTAL RAINFALL (mm)= 78.000
 RUNOFF COEFFICIENT = 0.286

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | STANDHYD (0280) | Area (ha)= 0.90
 | ID= 1 DT= 5.0 min | Total Imp(%)= 51.00 Dir. Conn.(%)= 51.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.46	0.44
Dep. Storage (mm)=	1.00	5.00
Average Slope (%)=	1.00	2.00
Length (m)=	77.64	40.00
Mannings n =	0.013	0.350

Max.Eff.Inten.(mm/hr)=	66.77	32.00
over (min)	5.00	20.00
Storage Coeff. (min)=	2.58 (ii)	16.20 (ii)
Unit Hyd. Tpeak (min)=	5.00	20.00
Unit Hyd. peak (cms)=	0.29	0.06

TOTALS

PEAK FLOW (cms)=	0.09	0.03	0.108 (iii)
TIME TO PEAK (hrs)=	6.17	6.33	6.17
RUNOFF VOLUME (mm)=	77.00	31.02	54.46
TOTAL RAINFALL (mm)=	78.00	78.00	78.00
RUNOFF COEFFICIENT =	0.99	0.40	0.70

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.34	6.250	17.00	9.33	2.34

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 72.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

1.583	2.03	4.667	4.21	7.750	4.37	10.83	1.72
1.667	2.03	4.750	5.30	7.833	4.37	10.92	1.72
1.750	2.03	4.833	5.30	7.917	4.37	11.00	1.72
1.833	2.03	4.917	5.30	8.000	4.37	11.08	1.72
1.917	2.03	5.000	5.30	8.083	4.37	11.17	1.72
2.000	2.03	5.083	5.30	8.167	4.37	11.25	1.56
2.083	2.03	5.167	5.30	8.250	3.43	11.33	1.56
2.167	2.03	5.250	8.42	8.333	3.43	11.42	1.56
2.250	2.03	5.333	8.42	8.417	3.43	11.50	1.56
2.333	2.65	5.417	8.42	8.500	3.43	11.58	1.56
2.417	2.65	5.500	8.42	8.583	3.43	11.67	1.56
2.500	2.65	5.583	8.42	8.667	3.43	11.75	1.56
2.583	2.65	5.667	8.42	8.750	3.59	11.83	1.56
2.667	2.65	5.750	66.77	8.833	3.59	11.92	1.56
2.750	2.34	5.833	66.77	8.917	3.59	12.00	1.56
2.833	2.34	5.917	66.77	9.000	3.59	12.08	1.56
2.917	2.34	6.000	66.77	9.083	3.59	12.17	1.56
3.000	2.34	6.083	66.77	9.167	3.59		
3.083	2.34	6.167	66.77	9.250	2.34		

ADD HYD (0057)				
1 + 2 = 3				
	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0280):	0.90	0.108	6.17	54.46
+ ID2= 2 (0281):	6.71	0.221	6.50	22.28
=====				
ID = 3 (0057):	7.61	0.264	6.50	26.09

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB			
NASHYD (0201)			
ID= 1 DT= 5.0 min			
Area	(ha)=	30.53	Curve Number (CN)= 71.0
Ia	(mm)=	10.70	# of Linear Res.(N)= 3.00
U.H. Tp	(hrs)=	0.78	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

Unit Hyd Qpeak (cms)= 1.495

PEAK FLOW (cms)= 0.847 (i)
 TIME TO PEAK (hrs)= 6.917
 RUNOFF VOLUME (mm)= 26.480
 TOTAL RAINFALL (mm)= 78.000
 RUNOFF COEFFICIENT = 0.339

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.34	6.250	17.00	9.33	2.34
0.167	0.00	3.250	3.12	6.333	17.00	9.42	2.34
0.250	2.34	3.333	3.12	6.417	17.00	9.50	2.34
0.333	2.34	3.417	3.12	6.500	17.00	9.58	2.34
0.417	2.34	3.500	3.12	6.583	17.00	9.67	2.34
0.500	2.34	3.583	3.12	6.667	17.00	9.75	1.87
0.583	2.34	3.667	3.12	6.750	7.49	9.83	1.87
0.667	2.34	3.750	3.12	6.833	7.49	9.92	1.87
0.750	1.09	3.833	3.12	6.917	7.49	10.00	1.87
0.833	1.09	3.917	3.12	7.000	7.49	10.08	1.87
0.917	1.09	4.000	3.12	7.083	7.49	10.17	1.87
1.000	1.09	4.083	3.12	7.167	7.49	10.25	2.65
1.083	1.09	4.167	3.12	7.250	4.99	10.33	2.65
1.167	1.09	4.250	4.21	7.333	4.99	10.42	2.65
1.250	2.03	4.333	4.21	7.417	4.99	10.50	2.65
1.333	2.03	4.417	4.21	7.500	4.99	10.58	2.65
1.417	2.03	4.500	4.21	7.583	4.99	10.67	2.65
1.500	2.03	4.583	4.21	7.667	4.99	10.75	1.72

CALIB			
STANDHYD (0200)			
ID= 1 DT= 5.0 min			
Area	(ha)=	5.18	
Total Imp	(%)=	33.00	Dir. Conn.(%)= 33.00

Surface Area	(ha)=	1.71	PERVIOUS (i) 3.47
Dep. Storage	(mm)=	1.00	5.00
Average Slope	(%)=	1.00	2.00
Length	(m)=	185.83	40.00
Mannings n	=	0.013	0.350

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.34	6.250	17.00	9.33	2.34

0.167	0.00	3.250	3.12	6.333	17.00	9.42	2.34
0.250	2.34	3.333	3.12	6.417	17.00	9.50	2.34
0.333	2.34	3.417	3.12	6.500	17.00	9.58	2.34
0.417	2.34	3.500	3.12	6.583	17.00	9.67	2.34
0.500	2.34	3.583	3.12	6.667	17.00	9.75	1.87
0.583	2.34	3.667	3.12	6.750	7.49	9.83	1.87
0.667	2.34	3.750	3.12	6.833	7.49	9.92	1.87
0.750	1.09	3.833	3.12	6.917	7.49	10.00	1.87
0.833	1.09	3.917	3.12	7.000	7.49	10.08	1.87
0.917	1.09	4.000	3.12	7.083	7.49	10.17	1.87
1.000	1.09	4.083	3.12	7.167	7.49	10.25	2.65
1.083	1.09	4.167	3.12	7.250	4.99	10.33	2.65
1.167	1.09	4.250	4.21	7.333	4.99	10.42	2.65
1.250	2.03	4.333	4.21	7.417	4.99	10.50	2.65
1.333	2.03	4.417	4.21	7.500	4.99	10.58	2.65
1.417	2.03	4.500	4.21	7.583	4.99	10.67	2.65
1.500	2.03	4.583	4.21	7.667	4.99	10.75	1.72
1.583	2.03	4.667	4.21	7.750	4.37	10.83	1.72
1.667	2.03	4.750	5.30	7.833	4.37	10.92	1.72
1.750	2.03	4.833	5.30	7.917	4.37	11.00	1.72
1.833	2.03	4.917	5.30	8.000	4.37	11.08	1.72
1.917	2.03	5.000	5.30	8.083	4.37	11.17	1.72
2.000	2.03	5.083	5.30	8.167	4.37	11.25	1.56
2.083	2.03	5.167	5.30	8.250	3.43	11.33	1.56
2.167	2.03	5.250	8.42	8.333	3.43	11.42	1.56
2.250	2.65	5.333	8.42	8.417	3.43	11.50	1.56
2.333	2.65	5.417	8.42	8.500	3.43	11.58	1.56
2.417	2.65	5.500	8.42	8.583	3.43	11.67	1.56
2.500	2.65	5.583	8.42	8.667	3.43	11.75	1.56
2.583	2.65	5.667	8.42	8.750	3.59	11.83	1.56
2.667	2.65	5.750	66.77	8.833	3.59	11.92	1.56
2.750	2.34	5.833	66.77	8.917	3.59	12.00	1.56
2.833	2.34	5.917	66.77	9.000	3.59	12.08	1.56
2.917	2.34	6.000	66.77	9.083	3.59	12.17	1.56
3.000	2.34	6.083	66.77	9.167	3.59		
3.083	2.34	6.167	66.77	9.250	2.34		

Max.Eff.Inten.(mm/hr)= 66.77 32.00
over (min) 5.00 20.00
Storage Coeff. (min)= 4.35 (ii) 17.98 (ii)
Unit Hyd. Tpeak (min)= 5.00 20.00
Unit Hyd. peak (cms)= 0.23 0.06

TOTALS
PEAK FLOW (cms)= 0.32 0.20 0.491 (iii)
TIME TO PEAK (hrs)= 6.17 6.33 6.17
RUNOFF VOLUME (mm)= 77.00 31.02 46.19
TOTAL RAINFALL (mm)= 78.00 78.00 78.00
RUNOFF COEFFICIENT = 0.99 0.40 0.59

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 72.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0033)				
1 + 2 = 3				
	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0200):	5.18	0.491	6.17	46.19
+ ID2= 2 (0201):	30.53	0.847	6.92	26.48
=====				
ID = 3 (0033):	35.71	0.991	6.67	29.34

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB				
NASHYD (0211)				
ID= 1 DT= 5.0 min				
	Area	(ha)=	2.02	Curve Number (CN)= 72.0
	Ia	(mm)=	10.50	# of Linear Res.(N)= 3.00

	U.H. Tp(hrs)=	0.16		

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.34	6.250	17.00	9.33	2.34
0.167	0.00	3.250	3.12	6.333	17.00	9.42	2.34
0.250	2.34	3.333	3.12	6.417	17.00	9.50	2.34
0.333	2.34	3.417	3.12	6.500	17.00	9.58	2.34
0.417	2.34	3.500	3.12	6.583	17.00	9.67	2.34
0.500	2.34	3.583	3.12	6.667	17.00	9.75	1.87
0.583	2.34	3.667	3.12	6.750	7.49	9.83	1.87
0.667	2.34	3.750	3.12	6.833	7.49	9.92	1.87
0.750	1.09	3.833	3.12	6.917	7.49	10.00	1.87
0.833	1.09	3.917	3.12	7.000	7.49	10.08	1.87
0.917	1.09	4.000	3.12	7.083	7.49	10.17	1.87
1.000	1.09	4.083	3.12	7.167	7.49	10.25	2.65
1.083	1.09	4.167	3.12	7.250	4.99	10.33	2.65
1.167	1.09	4.250	4.21	7.333	4.99	10.42	2.65
1.250	2.03	4.333	4.21	7.417	4.99	10.50	2.65
1.333	2.03	4.417	4.21	7.500	4.99	10.58	2.65
1.417	2.03	4.500	4.21	7.583	4.99	10.67	2.65
1.500	2.03	4.583	4.21	7.667	4.99	10.75	1.72

1.583	2.03	4.667	4.21	7.750	4.37	10.83	1.72
1.667	2.03	4.750	5.30	7.833	4.37	10.92	1.72
1.750	2.03	4.833	5.30	7.917	4.37	11.00	1.72
1.833	2.03	4.917	5.30	8.000	4.37	11.08	1.72
1.917	2.03	5.000	5.30	8.083	4.37	11.17	1.72
2.000	2.03	5.083	5.30	8.167	4.37	11.25	1.56
2.083	2.03	5.167	5.30	8.250	3.43	11.33	1.56
2.167	2.03	5.250	8.42	8.333	3.43	11.42	1.56
2.250	2.65	5.333	8.42	8.417	3.43	11.50	1.56
2.333	2.65	5.417	8.42	8.500	3.43	11.58	1.56
2.417	2.65	5.500	8.42	8.583	3.43	11.67	1.56
2.500	2.65	5.583	8.42	8.667	3.43	11.75	1.56
2.583	2.65	5.667	8.42	8.750	3.59	11.83	1.56
2.667	2.65	5.750	66.77	8.833	3.59	11.92	1.56
2.750	2.34	5.833	66.77	8.917	3.59	12.00	1.56
2.833	2.34	5.917	66.77	9.000	3.59	12.08	1.56
2.917	2.34	6.000	66.77	9.083	3.59	12.17	1.56
3.000	2.34	6.083	66.77	9.167	3.59		
3.083	2.34	6.167	66.77	9.250	2.34		

0.167	0.00	3.250	3.12	6.333	17.00	9.42	2.34
0.250	2.34	3.333	3.12	6.417	17.00	9.50	2.34
0.333	2.34	3.417	3.12	6.500	17.00	9.58	2.34
0.417	2.34	3.500	3.12	6.583	17.00	9.67	2.34
0.500	2.34	3.583	3.12	6.667	17.00	9.75	1.87
0.583	2.34	3.667	3.12	6.750	7.49	9.83	1.87
0.667	2.34	3.750	3.12	6.833	7.49	9.92	1.87
0.750	1.09	3.833	3.12	6.917	7.49	10.00	1.87
0.833	1.09	3.917	3.12	7.000	7.49	10.08	1.87
0.917	1.09	4.000	3.12	7.083	7.49	10.17	1.87
1.000	1.09	4.083	3.12	7.167	7.49	10.25	2.65
1.083	1.09	4.167	3.12	7.250	4.99	10.33	2.65
1.167	1.09	4.250	4.21	7.333	4.99	10.42	2.65
1.250	2.03	4.333	4.21	7.417	4.99	10.50	2.65
1.333	2.03	4.417	4.21	7.500	4.99	10.58	2.65
1.417	2.03	4.500	4.21	7.583	4.99	10.67	2.65
1.500	2.03	4.583	4.21	7.667	4.99	10.75	1.72
1.583	2.03	4.667	4.21	7.750	4.37	10.83	1.72
1.667	2.03	4.750	5.30	7.833	4.37	10.92	1.72
1.750	2.03	4.833	5.30	7.917	4.37	11.00	1.72
1.833	2.03	4.917	5.30	8.000	4.37	11.08	1.72
1.917	2.03	5.000	5.30	8.083	4.37	11.17	1.72
2.000	2.03	5.083	5.30	8.167	4.37	11.25	1.56
2.083	2.03	5.167	5.30	8.250	3.43	11.33	1.56
2.167	2.03	5.250	8.42	8.333	3.43	11.42	1.56
2.250	2.65	5.333	8.42	8.417	3.43	11.50	1.56
2.333	2.65	5.417	8.42	8.500	3.43	11.58	1.56
2.417	2.65	5.500	8.42	8.583	3.43	11.67	1.56
2.500	2.65	5.583	8.42	8.667	3.43	11.75	1.56
2.583	2.65	5.667	8.42	8.750	3.59	11.83	1.56
2.667	2.65	5.750	66.77	8.833	3.59	11.92	1.56
2.750	2.34	5.833	66.77	8.917	3.59	12.00	1.56
2.833	2.34	5.917	66.77	9.000	3.59	12.08	1.56
2.917	2.34	6.000	66.77	9.083	3.59	12.17	1.56
3.000	2.34	6.083	66.77	9.167	3.59		
3.083	2.34	6.167	66.77	9.250	2.34		

Unit Hyd Qpeak (cms)= 0.482

PEAK FLOW (cms)= 0.142 (i)
 TIME TO PEAK (hrs)= 6.167
 RUNOFF VOLUME (mm)= 27.278
 TOTAL RAINFALL (mm)= 78.000
 RUNOFF COEFFICIENT = 0.350

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | STANDHYD (0210) | Area (ha)= 0.57
 | ID= 1 DT= 5.0 min | Total Imp(%)= 30.00 Dir. Conn.(%)= 30.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.17	0.40
Dep. Storage (mm)=	1.00	5.00
Average Slope (%)=	1.00	2.00
Length (m)=	61.73	40.00
Mannings n =	0.013	0.350

Max.Eff.Inten.(mm/hr)=	66.77	29.26
over (min)	5.00	20.00
Storage Coeff. (min)=	2.25 (ii)	16.37 (ii)
Unit Hyd. Tpeak (min)=	5.00	20.00
Unit Hyd. peak (cms)=	0.30	0.06

TOTALS

PEAK FLOW (cms)=	0.03	0.02	0.051 (iii)
TIME TO PEAK (hrs)=	6.08	6.33	6.17
RUNOFF VOLUME (mm)=	77.00	28.48	43.02
TOTAL RAINFALL (mm)=	78.00	78.00	78.00
RUNOFF COEFFICIENT =	0.99	0.37	0.55

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.34	6.250	17.00	9.33	2.34

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

1.583	2.03	4.667	4.21	7.750	4.37	10.83	1.72
1.667	2.03	4.750	5.30	7.833	4.37	10.92	1.72
1.750	2.03	4.833	5.30	7.917	4.37	11.00	1.72
1.833	2.03	4.917	5.30	8.000	4.37	11.08	1.72
1.917	2.03	5.000	5.30	8.083	4.37	11.17	1.72
2.000	2.03	5.083	5.30	8.167	4.37	11.25	1.56
2.083	2.03	5.167	5.30	8.250	3.43	11.33	1.56
2.167	2.03	5.250	8.42	8.333	3.43	11.42	1.56
2.250	2.65	5.333	8.42	8.417	3.43	11.50	1.56
2.333	2.65	5.417	8.42	8.500	3.43	11.58	1.56
2.417	2.65	5.500	8.42	8.583	3.43	11.67	1.56
2.500	2.65	5.583	8.42	8.667	3.43	11.75	1.56
2.583	2.65	5.667	8.42	8.750	3.59	11.83	1.56
2.667	2.65	5.750	66.77	8.833	3.59	11.92	1.56
2.750	2.34	5.833	66.77	8.917	3.59	12.00	1.56
2.833	2.34	5.917	66.77	9.000	3.59	12.08	1.56
2.917	2.34	6.000	66.77	9.083	3.59	12.17	1.56
3.000	2.34	6.083	66.77	9.167	3.59		
3.083	2.34	6.167	66.77	9.250	2.34		

ADD HYD (0036)				
1 + 2 = 3				
	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0210):	0.57	0.051	6.17	43.02
+ ID2= 2 (0211):	2.02	0.142	6.17	27.28
=====				
ID = 3 (0036):	2.59	0.193	6.17	30.74

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB			
NASHYD (0195)			
ID= 1 DT= 5.0 min	Area (ha)=	496.69	Curve Number (CN)= 74.0
	Ia (mm)=	9.20	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)=	4.78	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

Unit Hyd Qpeak (cms)= 3.969

PEAK FLOW (cms)= 4.099 (i)
 TIME TO PEAK (hrs)= 12.000
 RUNOFF VOLUME (mm)= 29.950
 TOTAL RAINFALL (mm)= 78.000
 RUNOFF COEFFICIENT = 0.384

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.34	6.250	17.00	9.33	2.34
0.167	0.00	3.250	3.12	6.333	17.00	9.42	2.34
0.250	2.34	3.333	3.12	6.417	17.00	9.50	2.34
0.333	2.34	3.417	3.12	6.500	17.00	9.58	2.34
0.417	2.34	3.500	3.12	6.583	17.00	9.67	2.34
0.500	2.34	3.583	3.12	6.667	17.00	9.75	1.87
0.583	2.34	3.667	3.12	6.750	7.49	9.83	1.87
0.667	2.34	3.750	3.12	6.833	7.49	9.92	1.87
0.750	1.09	3.833	3.12	6.917	7.49	10.00	1.87
0.833	1.09	3.917	3.12	7.000	7.49	10.08	1.87
0.917	1.09	4.000	3.12	7.083	7.49	10.17	1.87
1.000	1.09	4.083	3.12	7.167	7.49	10.25	2.65
1.083	1.09	4.167	3.12	7.250	4.99	10.33	2.65
1.167	1.09	4.250	4.21	7.333	4.99	10.42	2.65
1.250	2.03	4.333	4.21	7.417	4.99	10.50	2.65
1.333	2.03	4.417	4.21	7.500	4.99	10.58	2.65
1.417	2.03	4.500	4.21	7.583	4.99	10.67	2.65
1.500	2.03	4.583	4.21	7.667	4.99	10.75	1.72

CALIB			
NASHYD (0196)			
ID= 1 DT= 5.0 min	Area (ha)=	65.48	Curve Number (CN)= 73.0
	Ia (mm)=	9.60	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)=	0.56	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.34	6.250	17.00	9.33	2.34
0.167	0.00	3.250	3.12	6.333	17.00	9.42	2.34
0.250	2.34	3.333	3.12	6.417	17.00	9.50	2.34
0.333	2.34	3.417	3.12	6.500	17.00	9.58	2.34
0.417	2.34	3.500	3.12	6.583	17.00	9.67	2.34
0.500	2.34	3.583	3.12	6.667	17.00	9.75	1.87
0.583	2.34	3.667	3.12	6.750	7.49	9.83	1.87

0.667	2.34	3.750	3.12	6.833	7.49	9.92	1.87
0.750	1.09	3.833	3.12	6.917	7.49	10.00	1.87
0.833	1.09	3.917	3.12	7.000	7.49	10.08	1.87
0.917	1.09	4.000	3.12	7.083	7.49	10.17	1.87
1.000	1.09	4.083	3.12	7.167	7.49	10.25	2.65
1.083	1.09	4.167	3.12	7.250	4.99	10.33	2.65
1.167	1.09	4.250	4.21	7.333	4.99	10.42	2.65
1.250	2.03	4.333	4.21	7.417	4.99	10.50	2.65
1.333	2.03	4.417	4.21	7.500	4.99	10.58	2.65
1.417	2.03	4.500	4.21	7.583	4.99	10.67	2.65
1.500	2.03	4.583	4.21	7.667	4.99	10.75	1.72
1.583	2.03	4.667	4.21	7.750	4.37	10.83	1.72
1.667	2.03	4.750	5.30	7.833	4.37	10.92	1.72
1.750	2.03	4.833	5.30	7.917	4.37	11.00	1.72
1.833	2.03	4.917	5.30	8.000	4.37	11.08	1.72
1.917	2.03	5.000	5.30	8.083	4.37	11.17	1.72
2.000	2.03	5.083	5.30	8.167	4.37	11.25	1.56
2.083	2.03	5.167	5.30	8.250	3.43	11.33	1.56
2.167	2.03	5.250	8.42	8.333	3.43	11.42	1.56
2.250	2.65	5.333	8.42	8.417	3.43	11.50	1.56
2.333	2.65	5.417	8.42	8.500	3.43	11.58	1.56
2.417	2.65	5.500	8.42	8.583	3.43	11.67	1.56
2.500	2.65	5.583	8.42	8.667	3.43	11.75	1.56
2.583	2.65	5.667	8.42	8.750	3.59	11.83	1.56
2.667	2.65	5.750	66.77	8.833	3.59	11.92	1.56
2.750	2.34	5.833	66.77	8.917	3.59	12.00	1.56
2.833	2.34	5.917	66.77	9.000	3.59	12.08	1.56
2.917	2.34	6.000	66.77	9.083	3.59	12.17	1.56
3.000	2.34	6.083	66.77	9.167	3.59		
3.083	2.34	6.167	66.77	9.250	2.34		

Unit Hyd Qpeak (cms)= 4.466

PEAK FLOW (cms)= 2.474 (i)
 TIME TO PEAK (hrs)= 6.667
 RUNOFF VOLUME (mm)= 28.818
 TOTAL RAINFALL (mm)= 78.000
 RUNOFF COEFFICIENT = 0.369

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0059)				
1 + 2 = 3				
	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0195):	496.69	4.099	12.00	29.95
+ ID2= 2 (0196):	65.48	2.474	6.67	28.82
=====				

ID = 3 (0059): 562.17 4.310 11.75 29.82

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ADD HYD (0059)				
3 + 2 = 1				
	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 3 (0059):	562.17	4.310	11.75	29.82
+ ID2= 2 (0033):	35.71	0.991	6.67	29.34
=====				
ID = 1 (0059):	597.88	4.437	11.58	29.79

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ADD HYD (0059)				
1 + 2 = 3				
	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0059):	597.88	4.437	11.58	29.79
+ ID2= 2 (0036):	2.59	0.193	6.17	30.74
=====				
ID = 3 (0059):	600.47	4.444	11.58	29.79

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB				
NASHYD (0194)				
ID= 1 DT= 5.0 min				
	Area	(ha)=	Curve Number	(CN)=
	Ia	(mm)=	# of Linear Res.(N)=	
	U.H. Tp(hrs)=	1.95		

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.34	6.250	17.00	9.33	2.34
0.167	0.00	3.250	3.12	6.333	17.00	9.42	2.34
0.250	2.34	3.333	3.12	6.417	17.00	9.50	2.34
0.333	2.34	3.417	3.12	6.500	17.00	9.58	2.34
0.417	2.34	3.500	3.12	6.583	17.00	9.67	2.34
0.500	2.34	3.583	3.12	6.667	17.00	9.75	1.87
0.583	2.34	3.667	3.12	6.750	7.49	9.83	1.87
0.667	2.34	3.750	3.12	6.833	7.49	9.92	1.87
0.750	1.09	3.833	3.12	6.917	7.49	10.00	1.87
0.833	1.09	3.917	3.12	7.000	7.49	10.08	1.87

0.917	1.09	4.000	3.12	7.083	7.49	10.17	1.87
1.000	1.09	4.083	3.12	7.167	7.49	10.25	2.65
1.083	1.09	4.167	3.12	7.250	4.99	10.33	2.65
1.167	1.09	4.250	4.21	7.333	4.99	10.42	2.65
1.250	2.03	4.333	4.21	7.417	4.99	10.50	2.65
1.333	2.03	4.417	4.21	7.500	4.99	10.58	2.65
1.417	2.03	4.500	4.21	7.583	4.99	10.67	2.65
1.500	2.03	4.583	4.21	7.667	4.99	10.75	1.72
1.583	2.03	4.667	4.21	7.750	4.37	10.83	1.72
1.667	2.03	4.750	5.30	7.833	4.37	10.92	1.72
1.750	2.03	4.833	5.30	7.917	4.37	11.00	1.72
1.833	2.03	4.917	5.30	8.000	4.37	11.08	1.72
1.917	2.03	5.000	5.30	8.083	4.37	11.17	1.72
2.000	2.03	5.083	5.30	8.167	4.37	11.25	1.56
2.083	2.03	5.167	5.30	8.250	3.43	11.33	1.56
2.167	2.03	5.250	8.42	8.333	3.43	11.42	1.56
2.250	2.65	5.333	8.42	8.417	3.43	11.50	1.56
2.333	2.65	5.417	8.42	8.500	3.43	11.58	1.56
2.417	2.65	5.500	8.42	8.583	3.43	11.67	1.56
2.500	2.65	5.583	8.42	8.667	3.43	11.75	1.56
2.583	2.65	5.667	8.42	8.750	3.59	11.83	1.56
2.667	2.65	5.750	66.77	8.833	3.59	11.92	1.56
2.750	2.34	5.833	66.77	8.917	3.59	12.00	1.56
2.833	2.34	5.917	66.77	9.000	3.59	12.08	1.56
2.917	2.34	6.000	66.77	9.083	3.59	12.17	1.56
3.000	2.34	6.083	66.77	9.167	3.59		
3.083	2.34	6.167	66.77	9.250	2.34		

Unit Hyd Qpeak (cms)= 3.143

PEAK FLOW (cms)= 2.625 (i)
 TIME TO PEAK (hrs)= 8.417
 RUNOFF VOLUME (mm)= 30.018
 TOTAL RAINFALL (mm)= 78.000
 RUNOFF COEFFICIENT = 0.385

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0016)	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
1 + 2 = 3				
ID1= 1 (0194):	160.45	2.625	8.42	30.02
+ ID2= 2 (0059):	600.47	4.444	11.58	29.79
=====				
ID = 3 (0016):	760.92	6.154	9.58	29.84

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

 | CALIB |
 | NASHYD (0193) | Area (ha)= 48.63 Curve Number (CN)= 64.0
 | ID= 1 DT= 5.0 min | Ia (mm)= 16.40 # of Linear Res.(N)= 3.00

 U.H. Tp(hrs)= 1.31

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.34	6.250	17.00	9.33	2.34
0.167	0.00	3.250	3.12	6.333	17.00	9.42	2.34
0.250	2.34	3.333	3.12	6.417	17.00	9.50	2.34
0.333	2.34	3.417	3.12	6.500	17.00	9.58	2.34
0.417	2.34	3.500	3.12	6.583	17.00	9.67	2.34
0.500	2.34	3.583	3.12	6.667	17.00	9.75	1.87
0.583	2.34	3.667	3.12	6.750	7.49	9.83	1.87
0.667	2.34	3.750	3.12	6.833	7.49	9.92	1.87
0.750	1.09	3.833	3.12	6.917	7.49	10.00	1.87
0.833	1.09	3.917	3.12	7.000	7.49	10.08	1.87
0.917	1.09	4.000	3.12	7.083	7.49	10.17	1.87
1.000	1.09	4.083	3.12	7.167	7.49	10.25	2.65
1.083	1.09	4.167	3.12	7.250	4.99	10.33	2.65
1.167	1.09	4.250	4.21	7.333	4.99	10.42	2.65
1.250	2.03	4.333	4.21	7.417	4.99	10.50	2.65
1.333	2.03	4.417	4.21	7.500	4.99	10.58	2.65
1.417	2.03	4.500	4.21	7.583	4.99	10.67	2.65
1.500	2.03	4.583	4.21	7.667	4.99	10.75	1.72
1.583	2.03	4.667	4.21	7.750	4.37	10.83	1.72
1.667	2.03	4.750	5.30	7.833	4.37	10.92	1.72
1.750	2.03	4.833	5.30	7.917	4.37	11.00	1.72
1.833	2.03	4.917	5.30	8.000	4.37	11.08	1.72
1.917	2.03	5.000	5.30	8.083	4.37	11.17	1.72
2.000	2.03	5.083	5.30	8.167	4.37	11.25	1.56
2.083	2.03	5.167	5.30	8.250	3.43	11.33	1.56
2.167	2.03	5.250	8.42	8.333	3.43	11.42	1.56
2.250	2.65	5.333	8.42	8.417	3.43	11.50	1.56
2.333	2.65	5.417	8.42	8.500	3.43	11.58	1.56
2.417	2.65	5.500	8.42	8.583	3.43	11.67	1.56
2.500	2.65	5.583	8.42	8.667	3.43	11.75	1.56
2.583	2.65	5.667	8.42	8.750	3.59	11.83	1.56
2.667	2.65	5.750	66.77	8.833	3.59	11.92	1.56
2.750	2.34	5.833	66.77	8.917	3.59	12.00	1.56
2.833	2.34	5.917	66.77	9.000	3.59	12.08	1.56
2.917	2.34	6.000	66.77	9.083	3.59	12.17	1.56
3.000	2.34	6.083	66.77	9.167	3.59		
3.083	2.34	6.167	66.77	9.250	2.34		

Unit Hyd Qpeak (cms)= 1.418

PEAK FLOW (cms)= 0.624 (i)
 TIME TO PEAK (hrs)= 7.750
 RUNOFF VOLUME (mm)= 18.557
 TOTAL RAINFALL (mm)= 78.000
 RUNOFF COEFFICIENT = 0.238

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

1.250	2.03	4.333	4.21	7.417	4.99	10.50	2.65
1.333	2.03	4.417	4.21	7.500	4.99	10.58	2.65
1.417	2.03	4.500	4.21	7.583	4.99	10.67	2.65
1.500	2.03	4.583	4.21	7.667	4.99	10.75	1.72
1.583	2.03	4.667	4.21	7.750	4.37	10.83	1.72
1.667	2.03	4.750	5.30	7.833	4.37	10.92	1.72
1.750	2.03	4.833	5.30	7.917	4.37	11.00	1.72
1.833	2.03	4.917	5.30	8.000	4.37	11.08	1.72
1.917	2.03	5.000	5.30	8.083	4.37	11.17	1.72
2.000	2.03	5.083	5.30	8.167	4.37	11.25	1.56
2.083	2.03	5.167	5.30	8.250	3.43	11.33	1.56
2.167	2.03	5.250	8.42	8.333	3.43	11.42	1.56
2.250	2.65	5.333	8.42	8.417	3.43	11.50	1.56
2.333	2.65	5.417	8.42	8.500	3.43	11.58	1.56
2.417	2.65	5.500	8.42	8.583	3.43	11.67	1.56
2.500	2.65	5.583	8.42	8.667	3.43	11.75	1.56
2.583	2.65	5.667	8.42	8.750	3.59	11.83	1.56
2.667	2.65	5.750	66.77	8.833	3.59	11.92	1.56
2.750	2.34	5.833	66.77	8.917	3.59	12.00	1.56
2.833	2.34	5.917	66.77	9.000	3.59	12.08	1.56
2.917	2.34	6.000	66.77	9.083	3.59	12.17	1.56
3.000	2.34	6.083	66.77	9.167	3.59		
3.083	2.34	6.167	66.77	9.250	2.34		

ADD HYD (0060)	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
1 + 2 = 3				
ID1= 1 (0016):	760.92	6.154	9.58	29.84
+ ID2= 2 (0193):	48.63	0.624	7.75	18.56
=====				
ID = 3 (0060):	809.55	6.549	9.33	29.16

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB	Area (ha)	Curve Number (CN)
NASHYD (0191)	147.11	67.0
ID= 1 DT= 5.0 min	Ia (mm)= 13.40	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)= 1.83	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.34	6.250	17.00	9.33	2.34
0.167	0.00	3.250	3.12	6.333	17.00	9.42	2.34
0.250	2.34	3.333	3.12	6.417	17.00	9.50	2.34
0.333	2.34	3.417	3.12	6.500	17.00	9.58	2.34
0.417	2.34	3.500	3.12	6.583	17.00	9.67	2.34
0.500	2.34	3.583	3.12	6.667	17.00	9.75	1.87
0.583	2.34	3.667	3.12	6.750	7.49	9.83	1.87
0.667	2.34	3.750	3.12	6.833	7.49	9.92	1.87
0.750	1.09	3.833	3.12	6.917	7.49	10.00	1.87
0.833	1.09	3.917	3.12	7.000	7.49	10.08	1.87
0.917	1.09	4.000	3.12	7.083	7.49	10.17	1.87
1.000	1.09	4.083	3.12	7.167	7.49	10.25	2.65
1.083	1.09	4.167	3.12	7.250	4.99	10.33	2.65
1.167	1.09	4.250	4.21	7.333	4.99	10.42	2.65

Unit Hyd Qpeak (cms)= 3.070

PEAK FLOW (cms)= 1.797 (i)
 TIME TO PEAK (hrs)= 8.333
 RUNOFF VOLUME (mm)= 21.998
 TOTAL RAINFALL (mm)= 78.000
 RUNOFF COEFFICIENT = 0.282

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	Area (ha)	Total Imp(%)	Dir. Conn.(%)
STANDHYD (0190)	2.29	46.00	46.00
ID= 1 DT= 5.0 min			

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)	1.05	1.24
Dep. Storage (mm)	1.00	5.00
Average Slope (%)	1.00	2.00
Length (m)	123.53	40.00
Mannings n	0.013	0.350

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.34	6.250	17.00	9.33	2.34
0.167	0.00	3.250	3.12	6.333	17.00	9.42	2.34
0.250	2.34	3.333	3.12	6.417	17.00	9.50	2.34
0.333	2.34	3.417	3.12	6.500	17.00	9.58	2.34
0.417	2.34	3.500	3.12	6.583	17.00	9.67	2.34
0.500	2.34	3.583	3.12	6.667	17.00	9.75	1.87
0.583	2.34	3.667	3.12	6.750	7.49	9.83	1.87
0.667	2.34	3.750	3.12	6.833	7.49	9.92	1.87
0.750	1.09	3.833	3.12	6.917	7.49	10.00	1.87
0.833	1.09	3.917	3.12	7.000	7.49	10.08	1.87
0.917	1.09	4.000	3.12	7.083	7.49	10.17	1.87
1.000	1.09	4.083	3.12	7.167	7.49	10.25	2.65
1.083	1.09	4.167	3.12	7.250	4.99	10.33	2.65
1.167	1.09	4.250	4.21	7.333	4.99	10.42	2.65
1.250	2.03	4.333	4.21	7.417	4.99	10.50	2.65
1.333	2.03	4.417	4.21	7.500	4.99	10.58	2.65
1.417	2.03	4.500	4.21	7.583	4.99	10.67	2.65
1.500	2.03	4.583	4.21	7.667	4.99	10.75	1.72
1.583	2.03	4.667	4.21	7.750	4.37	10.83	1.72
1.667	2.03	4.750	5.30	7.833	4.37	10.92	1.72
1.750	2.03	4.833	5.30	7.917	4.37	11.00	1.72
1.833	2.03	4.917	5.30	8.000	4.37	11.08	1.72
1.917	2.03	5.000	5.30	8.083	4.37	11.17	1.72
2.000	2.03	5.083	5.30	8.167	4.37	11.25	1.56
2.083	2.03	5.167	5.30	8.250	3.43	11.33	1.56
2.167	2.03	5.250	8.42	8.333	3.43	11.42	1.56
2.250	2.65	5.333	8.42	8.417	3.43	11.50	1.56
2.333	2.65	5.417	8.42	8.500	3.43	11.58	1.56
2.417	2.65	5.500	8.42	8.583	3.43	11.67	1.56
2.500	2.65	5.583	8.42	8.667	3.43	11.75	1.56
2.583	2.65	5.667	8.42	8.750	3.59	11.83	1.56
2.667	2.65	5.750	66.77	8.833	3.59	11.92	1.56
2.750	2.34	5.833	66.77	8.917	3.59	12.00	1.56
2.833	2.34	5.917	66.77	9.000	3.59	12.08	1.56
2.917	2.34	6.000	66.77	9.083	3.59	12.17	1.56
3.000	2.34	6.083	66.77	9.167	3.59		
3.083	2.34	6.167	66.77	9.250	2.34		

Max.Eff.Inten.(mm/hr)= 66.77 19.16
over (min) 5.00 25.00
Storage Coeff. (min)= 3.41 (ii) 20.13 (ii)
Unit Hyd. Tpeak (min)= 5.00 25.00
Unit Hyd. peak (cms)= 0.26 0.05

TOTALS

PEAK FLOW (cms)= 0.20 0.04 0.226 (iii)
TIME TO PEAK (hrs)= 6.17 6.42 6.17
RUNOFF VOLUME (mm)= 77.00 20.14 46.29

TOTAL RAINFALL (mm)= 78.00 78.00 78.00
RUNOFF COEFFICIENT = 0.99 0.26 0.59

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 57.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0030)	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0190):	2.29	0.226	6.17	46.29
+ ID2= 2 (0191):	147.11	1.797	8.33	22.00
=====				
ID = 3 (0030):	149.40	1.814	8.33	22.37

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB	Area (ha)	Curve Number (CN)
NASHYD (0192)	276.67	67.0
ID= 1 DT= 5.0 min	Ia (mm)= 9.40	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)= 4.85	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.34	6.250	17.00	9.33	2.34
0.167	0.00	3.250	3.12	6.333	17.00	9.42	2.34
0.250	2.34	3.333	3.12	6.417	17.00	9.50	2.34
0.333	2.34	3.417	3.12	6.500	17.00	9.58	2.34
0.417	2.34	3.500	3.12	6.583	17.00	9.67	2.34
0.500	2.34	3.583	3.12	6.667	17.00	9.75	1.87
0.583	2.34	3.667	3.12	6.750	7.49	9.83	1.87
0.667	2.34	3.750	3.12	6.833	7.49	9.92	1.87
0.750	1.09	3.833	3.12	6.917	7.49	10.00	1.87
0.833	1.09	3.917	3.12	7.000	7.49	10.08	1.87
0.917	1.09	4.000	3.12	7.083	7.49	10.17	1.87
1.000	1.09	4.083	3.12	7.167	7.49	10.25	2.65
1.083	1.09	4.167	3.12	7.250	4.99	10.33	2.65
1.167	1.09	4.250	4.21	7.333	4.99	10.42	2.65

1.250	2.03	4.333	4.21	7.417	4.99	10.50	2.65
1.333	2.03	4.417	4.21	7.500	4.99	10.58	2.65
1.417	2.03	4.500	4.21	7.583	4.99	10.67	2.65
1.500	2.03	4.583	4.21	7.667	4.99	10.75	1.72
1.583	2.03	4.667	4.21	7.750	4.37	10.83	1.72
1.667	2.03	4.750	5.30	7.833	4.37	10.92	1.72
1.750	2.03	4.833	5.30	7.917	4.37	11.00	1.72
1.833	2.03	4.917	5.30	8.000	4.37	11.08	1.72
1.917	2.03	5.000	5.30	8.083	4.37	11.17	1.72
2.000	2.03	5.083	5.30	8.167	4.37	11.25	1.56
2.083	2.03	5.167	5.30	8.250	3.43	11.33	1.56
2.167	2.03	5.250	8.42	8.333	3.43	11.42	1.56
2.250	2.65	5.333	8.42	8.417	3.43	11.50	1.56
2.333	2.65	5.417	8.42	8.500	3.43	11.58	1.56
2.417	2.65	5.500	8.42	8.583	3.43	11.67	1.56
2.500	2.65	5.583	8.42	8.667	3.43	11.75	1.56
2.583	2.65	5.667	8.42	8.750	3.59	11.83	1.56
2.667	2.65	5.750	66.77	8.833	3.59	11.92	1.56
2.750	2.34	5.833	66.77	8.917	3.59	12.00	1.56
2.833	2.34	5.917	66.77	9.000	3.59	12.08	1.56
2.917	2.34	6.000	66.77	9.083	3.59	12.17	1.56
3.000	2.34	6.083	66.77	9.167	3.59		
3.083	2.34	6.167	66.77	9.250	2.34		

Unit Hyd Qpeak (cms)= 2.179

PEAK FLOW (cms)= 1.826 (i)
 TIME TO PEAK (hrs)= 12.167
 RUNOFF VOLUME (mm)= 24.294
 TOTAL RAINFALL (mm)= 78.000
 RUNOFF COEFFICIENT = 0.311

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0061)	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0192):	276.67	1.826	12.17	24.29
+ ID2= 2 (0030):	149.40	1.814	8.33	22.37
ID = 3 (0061):	426.07	2.948	9.50	23.62

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

V V I SSSSS U U A L (v 6.2.2006)
 V V I SS U U A A L
 V V I SS U U A A A A L
 V V I SS U U A A L
 VV I SSSSS UUUU A A LLLLL

000 TTTT TTTT H H Y Y M M 000 TM
 O O T T H H Y Y MM MM O O
 O O T T H H Y M M O O
 000 T T H H Y M M 000

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***** D E T A I L E D O U T P U T *****

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.2\VO2\voindat

Output filename:
 C:\Users\caeh076182\AppData\Local\Civica\XH5\18e334db-11e6-4c2c-9e9b-68ade393f174\31efcd28-1f86-4bd0-b3be-7306f4c57891\s

Summary filename:
 C:\Users\caeh076182\AppData\Local\Civica\XH5\18e334db-11e6-4c2c-9e9b-68ade393f174\31efcd28-1f86-4bd0-b3be-7306f4c57891\s

DATE: 12-14-2022 TIME: 02:56:49

USER:

COMMENTS: _____

 ** SIMULATION : 12SCS025 **

READ STORM	Filename: C:\Users\caeh076182\AppData\Local\Temp\4057dc77-ff29-4e2b-baf3-03ff24407828\ae7facb4
Ptotal= 90.00 mm	Comments: 12SCS025

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.17	0.00	3.33	3.60	6.50	19.62	9.67	2.70
0.33	2.70	3.50	3.60	6.67	19.62	9.83	2.16
0.50	2.70	3.67	3.60	6.83	8.64	10.00	2.16
0.67	2.70	3.83	3.60	7.00	8.64	10.17	2.16
0.83	1.26	4.00	3.60	7.17	8.64	10.33	3.06
1.00	1.26	4.17	3.60	7.33	5.76	10.50	3.06
1.17	1.26	4.33	4.86	7.50	5.76	10.67	3.06
1.33	2.34	4.50	4.86	7.67	5.76	10.83	1.98
1.50	2.34	4.67	4.86	7.83	5.04	11.00	1.98
1.67	2.34	4.83	6.12	8.00	5.04	11.17	1.98
1.83	2.34	5.00	6.12	8.17	5.04	11.33	1.80
2.00	2.34	5.17	6.12	8.33	3.96	11.50	1.80
2.17	2.34	5.33	9.72	8.50	3.96	11.67	1.80
2.33	3.06	5.50	9.72	8.67	3.96	11.83	1.80
2.50	3.06	5.67	9.72	8.83	4.14	12.00	1.80
2.67	3.06	5.83	77.04	9.00	4.14	12.17	1.80
2.83	2.70	6.00	77.04	9.17	4.14		
3.00	2.70	6.17	77.04	9.33	2.70		
3.17	2.70	6.33	19.62	9.50	2.70		

1.250	2.34	4.333	4.86	7.417	5.76	10.50	3.06
1.333	2.34	4.417	4.86	7.500	5.76	10.58	3.06
1.417	2.34	4.500	4.86	7.583	5.76	10.67	3.06
1.500	2.34	4.583	4.86	7.667	5.76	10.75	1.98
1.583	2.34	4.667	4.86	7.750	5.04	10.83	1.98
1.667	2.34	4.750	6.12	7.833	5.04	10.92	1.98
1.750	2.34	4.833	6.12	7.917	5.04	11.00	1.98
1.833	2.34	4.917	6.12	8.000	5.04	11.08	1.98
1.917	2.34	5.000	6.12	8.083	5.04	11.17	1.98
2.000	2.34	5.083	6.12	8.167	5.04	11.25	1.80
2.083	2.34	5.167	6.12	8.250	3.96	11.33	1.80
2.167	2.34	5.250	9.72	8.333	3.96	11.42	1.80
2.250	3.06	5.333	9.72	8.417	3.96	11.50	1.80
2.333	3.06	5.417	9.72	8.500	3.96	11.58	1.80
2.417	3.06	5.500	9.72	8.583	3.96	11.67	1.80
2.500	3.06	5.583	9.72	8.667	3.96	11.75	1.80
2.583	3.06	5.667	9.72	8.750	4.14	11.83	1.80
2.667	3.06	5.750	77.04	8.833	4.14	11.92	1.80
2.750	2.70	5.833	77.04	8.917	4.14	12.00	1.80
2.833	2.70	5.917	77.04	9.000	4.14	12.08	1.80
2.917	2.70	6.000	77.04	9.083	4.14	12.17	1.80
3.000	2.70	6.083	77.04	9.167	4.14		
3.083	2.70	6.167	77.04	9.250	2.70		

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| CALIB |
| NASHYD ( 0101) | Area (ha)= 7.90 Curve Number (CN)= 62.0
| ID= 1 DT= 5.0 min | Ia (mm)= 16.80 # of Linear Res.(N)= 3.00
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| U.H. Tp(hrs)= 0.46

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.70	6.250	19.62	9.33	2.70
0.167	0.00	3.250	3.60	6.333	19.62	9.42	2.70
0.250	2.70	3.333	3.60	6.417	19.62	9.50	2.70
0.333	2.70	3.417	3.60	6.500	19.62	9.58	2.70
0.417	2.70	3.500	3.60	6.583	19.62	9.67	2.70
0.500	2.70	3.583	3.60	6.667	19.62	9.75	2.16
0.583	2.70	3.667	3.60	6.750	8.64	9.83	2.16
0.667	2.70	3.750	3.60	6.833	8.64	9.92	2.16
0.750	1.26	3.833	3.60	6.917	8.64	10.00	2.16
0.833	1.26	3.917	3.60	7.000	8.64	10.08	2.16
0.917	1.26	4.000	3.60	7.083	8.64	10.17	2.16
1.000	1.26	4.083	3.60	7.167	8.64	10.25	3.06
1.083	1.26	4.167	3.60	7.250	5.76	10.33	3.06
1.167	1.26	4.250	4.86	7.333	5.76	10.42	3.06

Unit Hyd Qpeak (cms)= 0.656

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PEAK FLOW (cms)= 0.258 (i)
TIME TO PEAK (hrs)= 6.583
RUNOFF VOLUME (mm)= 23.409
TOTAL RAINFALL (mm)= 90.000
RUNOFF COEFFICIENT = 0.260

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(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| CALIB |
| STANDHYD ( 0100) | Area (ha)= 0.91
| ID= 1 DT= 5.0 min | Total Imp(%)= 61.00 Dir. Conn.(%)= 61.00
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	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.56	0.35
Dep. Storage (mm)=	1.00	5.00
Average Slope (%)=	1.00	2.00
Length (m)=	77.68	40.00
Mannings n =	0.013	0.360

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.70	6.250	19.62	9.33	2.70
0.167	0.00	3.250	3.60	6.333	19.62	9.42	2.70
0.250	2.70	3.333	3.60	6.417	19.62	9.50	2.70
0.333	2.70	3.417	3.60	6.500	19.62	9.58	2.70
0.417	2.70	3.500	3.60	6.583	19.62	9.67	2.70
0.500	2.70	3.583	3.60	6.667	19.62	9.75	2.16
0.583	2.70	3.667	3.60	6.750	8.64	9.83	2.16
0.667	2.70	3.750	3.60	6.833	8.64	9.92	2.16
0.750	1.26	3.833	3.60	6.917	8.64	10.00	2.16
0.833	1.26	3.917	3.60	7.000	8.64	10.08	2.16
0.917	1.26	4.000	3.60	7.083	8.64	10.17	2.16
1.000	1.26	4.083	3.60	7.167	8.64	10.25	3.06
1.083	1.26	4.167	3.60	7.250	5.76	10.33	3.06
1.167	1.26	4.250	4.86	7.333	5.76	10.42	3.06
1.250	2.34	4.333	4.86	7.417	5.76	10.50	3.06
1.333	2.34	4.417	4.86	7.500	5.76	10.58	3.06
1.417	2.34	4.500	4.86	7.583	5.76	10.67	3.06
1.500	2.34	4.583	4.86	7.667	5.76	10.75	1.98
1.583	2.34	4.667	4.86	7.750	5.04	10.83	1.98
1.667	2.34	4.750	6.12	7.833	5.04	10.92	1.98
1.750	2.34	4.833	6.12	7.917	5.04	11.00	1.98
1.833	2.34	4.917	6.12	8.000	5.04	11.08	1.98
1.917	2.34	5.000	6.12	8.083	5.04	11.17	1.98
2.000	2.34	5.083	6.12	8.167	5.04	11.25	1.80
2.083	2.34	5.167	6.12	8.250	3.96	11.33	1.80
2.167	2.34	5.250	9.72	8.333	3.96	11.42	1.80
2.250	3.06	5.333	9.72	8.417	3.96	11.50	1.80
2.333	3.06	5.417	9.72	8.500	3.96	11.58	1.80
2.417	3.06	5.500	9.72	8.583	3.96	11.67	1.80
2.500	3.06	5.583	9.72	8.667	3.96	11.75	1.80
2.583	3.06	5.667	9.72	8.750	4.14	11.83	1.80
2.667	3.06	5.750	77.04	8.833	4.14	11.92	1.80
2.750	2.70	5.833	77.04	8.917	4.14	12.00	1.80
2.833	2.70	5.917	77.04	9.000	4.14	12.08	1.80
2.917	2.70	6.000	77.04	9.083	4.14	12.17	1.80
3.000	2.70	6.083	77.04	9.167	4.14		
3.083	2.70	6.167	77.04	9.250	2.70		

Max.Eff.Inten.(mm/hr)= 77.04 35.25
over (min) 5.00 20.00
Storage Coeff. (min)= 2.44 (ii) 15.77 (ii)
Unit Hyd. Tpeak (min)= 5.00 20.00
Unit Hyd. peak (cms)= 0.30 0.07

PEAK FLOW (cms)= 0.12 0.02
TIME TO PEAK (hrs)= 6.17 6.33
RUNOFF VOLUME (mm)= 89.00 34.39

TOTALS
0.140 (iii)
6.17
67.69

TOTAL RAINFALL (mm)= 90.00 90.00 90.00
RUNOFF COEFFICIENT = 0.99 0.38 0.75

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 67.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0003)	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0100):	0.91	0.140	6.17	67.69
+ ID2= 2 (0101):	7.90	0.258	6.58	23.41
=====				
ID = 3 (0003):	8.81	0.305	6.58	27.98

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB	Area (ha)	Curve Number (CN)
NASHYD (0111)	5.33	54.0
ID= 1 DT= 5.0 min	Ia (mm)= 22.80	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)= 0.38	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.70	6.250	19.62	9.33	2.70
0.167	0.00	3.250	3.60	6.333	19.62	9.42	2.70
0.250	2.70	3.333	3.60	6.417	19.62	9.50	2.70
0.333	2.70	3.417	3.60	6.500	19.62	9.58	2.70
0.417	2.70	3.500	3.60	6.583	19.62	9.67	2.70
0.500	2.70	3.583	3.60	6.667	19.62	9.75	2.16
0.583	2.70	3.667	3.60	6.750	8.64	9.83	2.16
0.667	2.70	3.750	3.60	6.833	8.64	9.92	2.16
0.750	1.26	3.833	3.60	6.917	8.64	10.00	2.16
0.833	1.26	3.917	3.60	7.000	8.64	10.08	2.16
0.917	1.26	4.000	3.60	7.083	8.64	10.17	2.16
1.000	1.26	4.083	3.60	7.167	8.64	10.25	3.06
1.083	1.26	4.167	3.60	7.250	5.76	10.33	3.06
1.167	1.26	4.250	4.86	7.333	5.76	10.42	3.06

1.250	2.34	4.333	4.86	7.417	5.76	10.50	3.06
1.333	2.34	4.417	4.86	7.500	5.76	10.58	3.06
1.417	2.34	4.500	4.86	7.583	5.76	10.67	3.06
1.500	2.34	4.583	4.86	7.667	5.76	10.75	1.98
1.583	2.34	4.667	4.86	7.750	5.04	10.83	1.98
1.667	2.34	4.750	6.12	7.833	5.04	10.92	1.98
1.750	2.34	4.833	6.12	7.917	5.04	11.00	1.98
1.833	2.34	4.917	6.12	8.000	5.04	11.08	1.98
1.917	2.34	5.000	6.12	8.083	5.04	11.17	1.98
2.000	2.34	5.083	6.12	8.167	5.04	11.25	1.80
2.083	2.34	5.167	6.12	8.250	3.96	11.33	1.80
2.167	2.34	5.250	9.72	8.333	3.96	11.42	1.80
2.250	3.06	5.333	9.72	8.417	3.96	11.50	1.80
2.333	3.06	5.417	9.72	8.500	3.96	11.58	1.80
2.417	3.06	5.500	9.72	8.583	3.96	11.67	1.80
2.500	3.06	5.583	9.72	8.667	3.96	11.75	1.80
2.583	3.06	5.667	9.72	8.750	4.14	11.83	1.80
2.667	3.06	5.750	77.04	8.833	4.14	11.92	1.80
2.750	2.70	5.833	77.04	8.917	4.14	12.00	1.80
2.833	2.70	5.917	77.04	9.000	4.14	12.08	1.80
2.917	2.70	6.000	77.04	9.083	4.14	12.17	1.80
3.000	2.70	6.083	77.04	9.167	4.14		
3.083	2.70	6.167	77.04	9.250	2.70		

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.70	6.250	19.62	9.33	2.70
0.167	0.00	3.250	3.60	6.333	19.62	9.42	2.70
0.250	2.70	3.333	3.60	6.417	19.62	9.50	2.70
0.333	2.70	3.417	3.60	6.500	19.62	9.58	2.70
0.417	2.70	3.500	3.60	6.583	19.62	9.67	2.70
0.500	2.70	3.583	3.60	6.667	19.62	9.75	2.16
0.583	2.70	3.667	3.60	6.750	8.64	9.83	2.16
0.667	2.70	3.750	3.60	6.833	8.64	9.92	2.16
0.750	1.26	3.833	3.60	6.917	8.64	10.00	2.16
0.833	1.26	3.917	3.60	7.000	8.64	10.08	2.16
0.917	1.26	4.000	3.60	7.083	8.64	10.17	2.16
1.000	1.26	4.083	3.60	7.167	8.64	10.25	3.06
1.083	1.26	4.167	3.60	7.250	5.76	10.33	3.06
1.167	1.26	4.250	4.86	7.333	5.76	10.42	3.06
1.250	2.34	4.333	4.86	7.417	5.76	10.50	3.06
1.333	2.34	4.417	4.86	7.500	5.76	10.58	3.06
1.417	2.34	4.500	4.86	7.583	5.76	10.67	3.06
1.500	2.34	4.583	4.86	7.667	5.76	10.75	1.98
1.583	2.34	4.667	4.86	7.750	5.04	10.83	1.98
1.667	2.34	4.750	6.12	7.833	5.04	10.92	1.98
1.750	2.34	4.833	6.12	7.917	5.04	11.00	1.98
1.833	2.34	4.917	6.12	8.000	5.04	11.08	1.98
1.917	2.34	5.000	6.12	8.083	5.04	11.17	1.98
2.000	2.34	5.083	6.12	8.167	5.04	11.25	1.80
2.083	2.34	5.167	6.12	8.250	3.96	11.33	1.80
2.167	2.34	5.250	9.72	8.333	3.96	11.42	1.80
2.250	3.06	5.333	9.72	8.417	3.96	11.50	1.80
2.333	3.06	5.417	9.72	8.500	3.96	11.58	1.80
2.417	3.06	5.500	9.72	8.583	3.96	11.67	1.80
2.500	3.06	5.583	9.72	8.667	3.96	11.75	1.80
2.583	3.06	5.667	9.72	8.750	4.14	11.83	1.80
2.667	3.06	5.750	77.04	8.833	4.14	11.92	1.80
2.750	2.70	5.833	77.04	8.917	4.14	12.00	1.80
2.833	2.70	5.917	77.04	9.000	4.14	12.08	1.80
2.917	2.70	6.000	77.04	9.083	4.14	12.17	1.80
3.000	2.70	6.083	77.04	9.167	4.14		
3.083	2.70	6.167	77.04	9.250	2.70		

Unit Hyd Qpeak (cms)= 0.536

PEAK FLOW (cms)= 0.122 (i)
 TIME TO PEAK (hrs)= 6.500
 RUNOFF VOLUME (mm)= 15.922
 TOTAL RAINFALL (mm)= 90.000
 RUNOFF COEFFICIENT = 0.177

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	Area (ha)= 1.01		
STANDHYD (0110)	Total Imp(%)= 30.00	Dir. Conn.(%)= 30.00	
ID= 1 DT= 5.0 min			

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.30	0.71
Dep. Storage (mm)=	1.00	5.00
Average Slope (%)=	1.00	2.00
Length (m)=	81.96	40.00
Mannings n =	0.013	0.350

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

Max.Eff.Inten.(mm/hr)=	77.04	23.51
over (min)	5.00	20.00
Storage Coeff. (min)=	2.52 (ii)	17.93 (ii)
Unit Hyd. Tpeak (min)=	5.00	20.00
Unit Hyd. peak (cms)=	0.29	0.06

TOTALS

PEAK FLOW (cms)=	0.06	0.03	0.092 (iii)
TIME TO PEAK (hrs)=	6.17	6.33	6.17
RUNOFF VOLUME (mm)=	89.00	24.67	43.96

TOTAL RAINFALL (mm)= 90.00 90.00 90.00
 RUNOFF COEFFICIENT = 0.99 0.27 0.49

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
 CN* = 55.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
 THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

1.250	2.34	4.333	4.86	7.417	5.76	10.50	3.06
1.333	2.34	4.417	4.86	7.500	5.76	10.58	3.06
1.417	2.34	4.500	4.86	7.583	5.76	10.67	3.06
1.500	2.34	4.583	4.86	7.667	5.76	10.75	1.98
1.583	2.34	4.667	4.86	7.750	5.04	10.83	1.98
1.667	2.34	4.750	6.12	7.833	5.04	10.92	1.98
1.750	2.34	4.833	6.12	7.917	5.04	11.00	1.98
1.833	2.34	4.917	6.12	8.000	5.04	11.08	1.98
1.917	2.34	5.000	6.12	8.083	5.04	11.17	1.98
2.000	2.34	5.083	6.12	8.167	5.04	11.25	1.80
2.083	2.34	5.167	6.12	8.250	3.96	11.33	1.80
2.167	2.34	5.250	9.72	8.333	3.96	11.42	1.80
2.250	3.06	5.333	9.72	8.417	3.96	11.50	1.80
2.333	3.06	5.417	9.72	8.500	3.96	11.58	1.80
2.417	3.06	5.500	9.72	8.583	3.96	11.67	1.80
2.500	3.06	5.583	9.72	8.667	3.96	11.75	1.80
2.583	3.06	5.667	9.72	8.750	4.14	11.83	1.80
2.667	3.06	5.750	77.04	8.833	4.14	11.92	1.80
2.750	2.70	5.833	77.04	8.917	4.14	12.00	1.80
2.833	2.70	5.917	77.04	9.000	4.14	12.08	1.80
2.917	2.70	6.000	77.04	9.083	4.14	12.17	1.80
3.000	2.70	6.083	77.04	9.167	4.14		
3.083	2.70	6.167	77.04	9.250	2.70		

ADD HYD (0006)	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
1 + 2 = 3				
ID1= 1 (0110):	1.01	0.092	6.17	43.96
+ ID2= 2 (0111):	5.33	0.122	6.50	15.92
=====				
ID = 3 (0006):	6.34	0.167	6.42	20.39

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB	Area (ha)	Curve Number (CN)
NASHYD (0121)	2.33	54.0
ID= 1 DT= 5.0 min	Ia (mm)= 22.80	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)= 0.67	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

Unit Hyd Qpeak (cms)= 0.133

PEAK FLOW (cms)= 0.039 (i)
 TIME TO PEAK (hrs)= 6.917
 RUNOFF VOLUME (mm)= 15.924
 TOTAL RAINFALL (mm)= 90.000
 RUNOFF COEFFICIENT = 0.177

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

----- TRANSFORMED HYETOGRAPH -----							
TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.70	6.250	19.62	9.33	2.70
0.167	0.00	3.250	3.60	6.333	19.62	9.42	2.70
0.250	2.70	3.333	3.60	6.417	19.62	9.50	2.70
0.333	2.70	3.417	3.60	6.500	19.62	9.58	2.70
0.417	2.70	3.500	3.60	6.583	19.62	9.67	2.70
0.500	2.70	3.583	3.60	6.667	19.62	9.75	2.16
0.583	2.70	3.667	3.60	6.750	8.64	9.83	2.16
0.667	2.70	3.750	3.60	6.833	8.64	9.92	2.16
0.750	1.26	3.833	3.60	6.917	8.64	10.00	2.16
0.833	1.26	3.917	3.60	7.000	8.64	10.08	2.16
0.917	1.26	4.000	3.60	7.083	8.64	10.17	2.16
1.000	1.26	4.083	3.60	7.167	8.64	10.25	3.06
1.083	1.26	4.167	3.60	7.250	5.76	10.33	3.06
1.167	1.26	4.250	4.86	7.333	5.76	10.42	3.06

CALIB	Area (ha)	Total Imp(%)	Dir. Conn.(%)
STANDHYD (0120)	0.82	32.00	32.00
ID= 1 DT= 5.0 min			

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)	0.26	0.56
Dep. Storage (mm)	1.00	5.00
Average Slope (%)	1.00	2.00
Length (m)	73.80	40.00
Mannings n	0.013	0.350

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.70	6.250	19.62	9.33	2.70
0.167	0.00	3.250	3.60	6.333	19.62	9.42	2.70
0.250	2.70	3.333	3.60	6.417	19.62	9.50	2.70
0.333	2.70	3.417	3.60	6.500	19.62	9.58	2.70
0.417	2.70	3.500	3.60	6.583	19.62	9.67	2.70
0.500	2.70	3.583	3.60	6.667	19.62	9.75	2.16
0.583	2.70	3.667	3.60	6.750	8.64	9.83	2.16
0.667	2.70	3.750	3.60	6.833	8.64	9.92	2.16
0.750	1.26	3.833	3.60	6.917	8.64	10.00	2.16
0.833	1.26	3.917	3.60	7.000	8.64	10.08	2.16
0.917	1.26	4.000	3.60	7.083	8.64	10.17	2.16
1.000	1.26	4.083	3.60	7.167	8.64	10.25	3.06
1.083	1.26	4.167	3.60	7.250	5.76	10.33	3.06
1.167	1.26	4.250	4.86	7.333	5.76	10.42	3.06
1.250	2.34	4.333	4.86	7.417	5.76	10.50	3.06
1.333	2.34	4.417	4.86	7.500	5.76	10.58	3.06
1.417	2.34	4.500	4.86	7.583	5.76	10.67	3.06
1.500	2.34	4.583	4.86	7.667	5.76	10.75	1.98
1.583	2.34	4.667	4.86	7.750	5.04	10.83	1.98
1.667	2.34	4.750	6.12	7.833	5.04	10.92	1.98
1.750	2.34	4.833	6.12	7.917	5.04	11.00	1.98
1.833	2.34	4.917	6.12	8.000	5.04	11.08	1.98
1.917	2.34	5.000	6.12	8.083	5.04	11.17	1.98
2.000	2.34	5.083	6.12	8.167	5.04	11.25	1.80
2.083	2.34	5.167	6.12	8.250	3.96	11.33	1.80
2.167	2.34	5.250	9.72	8.333	3.96	11.42	1.80
2.250	3.06	5.333	9.72	8.417	3.96	11.50	1.80
2.333	3.06	5.417	9.72	8.500	3.96	11.58	1.80
2.417	3.06	5.500	9.72	8.583	3.96	11.67	1.80
2.500	3.06	5.583	9.72	8.667	3.96	11.75	1.80
2.583	3.06	5.667	9.72	8.750	4.14	11.83	1.80
2.667	3.06	5.750	77.04	8.833	4.14	11.92	1.80
2.750	2.70	5.833	77.04	8.917	4.14	12.00	1.80
2.833	2.70	5.917	77.04	9.000	4.14	12.08	1.80
2.917	2.70	6.000	77.04	9.083	4.14	12.17	1.80
3.000	2.70	6.083	77.04	9.167	4.14		
3.083	2.70	6.167	77.04	9.250	2.70		

Max.Eff.Inten.(mm/hr)= 77.04 23.51
over (min) 5.00 20.00
Storage Coeff. (min)= 2.36 (ii) 17.77 (ii)
Unit Hyd. Tpeak (min)= 5.00 20.00
Unit Hyd. peak (cms)= 0.30 0.06

PEAK FLOW (cms)= 0.06 0.03
TIME TO PEAK (hrs)= 6.17 6.33
RUNOFF VOLUME (mm)= 89.00 24.67

TOTALS
0.077 (iii)
6.17
45.25

TOTAL RAINFALL (mm)= 90.00 90.00 90.00
RUNOFF COEFFICIENT = 0.99 0.27 0.50

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 55.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0009)	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0120):	0.82	0.077	6.17	45.25
+ ID2= 2 (0121):	2.33	0.039	6.92	15.92
=====				
ID = 3 (0009):	3.15	0.088	6.17	23.56

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB	Area (ha)	Curve Number (CN)
NASHYD (0131)	10.63	54.0
ID= 1 DT= 5.0 min	Ia (mm)= 22.80	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)= 0.69	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.70	6.250	19.62	9.33	2.70
0.167	0.00	3.250	3.60	6.333	19.62	9.42	2.70
0.250	2.70	3.333	3.60	6.417	19.62	9.50	2.70
0.333	2.70	3.417	3.60	6.500	19.62	9.58	2.70
0.417	2.70	3.500	3.60	6.583	19.62	9.67	2.70
0.500	2.70	3.583	3.60	6.667	19.62	9.75	2.16
0.583	2.70	3.667	3.60	6.750	8.64	9.83	2.16
0.667	2.70	3.750	3.60	6.833	8.64	9.92	2.16
0.750	1.26	3.833	3.60	6.917	8.64	10.00	2.16
0.833	1.26	3.917	3.60	7.000	8.64	10.08	2.16
0.917	1.26	4.000	3.60	7.083	8.64	10.17	2.16
1.000	1.26	4.083	3.60	7.167	8.64	10.25	3.06
1.083	1.26	4.167	3.60	7.250	5.76	10.33	3.06
1.167	1.26	4.250	4.86	7.333	5.76	10.42	3.06

1.250	2.34	4.333	4.86	7.417	5.76	10.50	3.06
1.333	2.34	4.417	4.86	7.500	5.76	10.58	3.06
1.417	2.34	4.500	4.86	7.583	5.76	10.67	3.06
1.500	2.34	4.583	4.86	7.667	5.76	10.75	1.98
1.583	2.34	4.667	4.86	7.750	5.04	10.83	1.98
1.667	2.34	4.750	6.12	7.833	5.04	10.92	1.98
1.750	2.34	4.833	6.12	7.917	5.04	11.00	1.98
1.833	2.34	4.917	6.12	8.000	5.04	11.08	1.98
1.917	2.34	5.000	6.12	8.083	5.04	11.17	1.98
2.000	2.34	5.083	6.12	8.167	5.04	11.25	1.80
2.083	2.34	5.167	6.12	8.250	3.96	11.33	1.80
2.167	2.34	5.250	9.72	8.333	3.96	11.42	1.80
2.250	3.06	5.333	9.72	8.417	3.96	11.50	1.80
2.333	3.06	5.417	9.72	8.500	3.96	11.58	1.80
2.417	3.06	5.500	9.72	8.583	3.96	11.67	1.80
2.500	3.06	5.583	9.72	8.667	3.96	11.75	1.80
2.583	3.06	5.667	9.72	8.750	4.14	11.83	1.80
2.667	3.06	5.750	77.04	8.833	4.14	11.92	1.80
2.750	2.70	5.833	77.04	8.917	4.14	12.00	1.80
2.833	2.70	5.917	77.04	9.000	4.14	12.08	1.80
2.917	2.70	6.000	77.04	9.083	4.14	12.17	1.80
3.000	2.70	6.083	77.04	9.167	4.14		
3.083	2.70	6.167	77.04	9.250	2.70		

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.70	6.250	19.62	9.33	2.70
0.167	0.00	3.250	3.60	6.333	19.62	9.42	2.70
0.250	2.70	3.333	3.60	6.417	19.62	9.50	2.70
0.333	2.70	3.417	3.60	6.500	19.62	9.58	2.70
0.417	2.70	3.500	3.60	6.583	19.62	9.67	2.70
0.500	2.70	3.583	3.60	6.667	19.62	9.75	2.16
0.583	2.70	3.667	3.60	6.750	8.64	9.83	2.16
0.667	2.70	3.750	3.60	6.833	8.64	9.92	2.16
0.750	1.26	3.833	3.60	6.917	8.64	10.00	2.16
0.833	1.26	3.917	3.60	7.000	8.64	10.08	2.16
0.917	1.26	4.000	3.60	7.083	8.64	10.17	2.16
1.000	1.26	4.083	3.60	7.167	8.64	10.25	3.06
1.083	1.26	4.167	3.60	7.250	5.76	10.33	3.06
1.167	1.26	4.250	4.86	7.333	5.76	10.42	3.06
1.250	2.34	4.333	4.86	7.417	5.76	10.50	3.06
1.333	2.34	4.417	4.86	7.500	5.76	10.58	3.06
1.417	2.34	4.500	4.86	7.583	5.76	10.67	3.06
1.500	2.34	4.583	4.86	7.667	5.76	10.75	1.98
1.583	2.34	4.667	4.86	7.750	5.04	10.83	1.98
1.667	2.34	4.750	6.12	7.833	5.04	10.92	1.98
1.750	2.34	4.833	6.12	7.917	5.04	11.00	1.98
1.833	2.34	4.917	6.12	8.000	5.04	11.08	1.98
1.917	2.34	5.000	6.12	8.083	5.04	11.17	1.98
2.000	2.34	5.083	6.12	8.167	5.04	11.25	1.80
2.083	2.34	5.167	6.12	8.250	3.96	11.33	1.80
2.167	2.34	5.250	9.72	8.333	3.96	11.42	1.80
2.250	3.06	5.333	9.72	8.417	3.96	11.50	1.80
2.333	3.06	5.417	9.72	8.500	3.96	11.58	1.80
2.417	3.06	5.500	9.72	8.583	3.96	11.67	1.80
2.500	3.06	5.583	9.72	8.667	3.96	11.75	1.80
2.583	3.06	5.667	9.72	8.750	4.14	11.83	1.80
2.667	3.06	5.750	77.04	8.833	4.14	11.92	1.80
2.750	2.70	5.833	77.04	8.917	4.14	12.00	1.80
2.833	2.70	5.917	77.04	9.000	4.14	12.08	1.80
2.917	2.70	6.000	77.04	9.083	4.14	12.17	1.80
3.000	2.70	6.083	77.04	9.167	4.14		
3.083	2.70	6.167	77.04	9.250	2.70		

Unit Hyd Qpeak (cms)= 0.588

PEAK FLOW (cms)= 0.173 (i)
 TIME TO PEAK (hrs)= 6.917
 RUNOFF VOLUME (mm)= 15.925
 TOTAL RAINFALL (mm)= 90.000
 RUNOFF COEFFICIENT = 0.177

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	Area (ha)= 1.57
STANDHYD (0130)	Total Imp(%)= 34.00 Dir. Conn.(%)= 34.00
ID= 1 DT= 5.0 min	

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.53	1.04
Dep. Storage (mm)=	1.00	5.00
Average Slope (%)=	1.00	2.00
Length (m)=	102.35	40.00
Mannings n =	0.013	0.350

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

Max.Eff.Inten.(mm/hr)=	77.04	23.51
over (min)	5.00	20.00
Storage Coeff. (min)=	2.88 (ii)	18.29 (ii)
Unit Hyd. Tpeak (min)=	5.00	20.00
Unit Hyd. peak (cms)=	0.28	0.06

TOTALS

PEAK FLOW (cms)=	0.11	0.05	0.153 (iii)
TIME TO PEAK (hrs)=	6.17	6.33	6.17
RUNOFF VOLUME (mm)=	89.00	24.67	46.54

TOTAL RAINFALL (mm)= 90.00 90.00 90.00
 RUNOFF COEFFICIENT = 0.99 0.27 0.52

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
 CN* = 55.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
 THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

1.250	2.34	4.333	4.86	7.417	5.76	10.50	3.06
1.333	2.34	4.417	4.86	7.500	5.76	10.58	3.06
1.417	2.34	4.500	4.86	7.583	5.76	10.67	3.06
1.500	2.34	4.583	4.86	7.667	5.76	10.75	1.98
1.583	2.34	4.667	4.86	7.750	5.04	10.83	1.98
1.667	2.34	4.750	6.12	7.833	5.04	10.92	1.98
1.750	2.34	4.833	6.12	7.917	5.04	11.00	1.98
1.833	2.34	4.917	6.12	8.000	5.04	11.08	1.98
1.917	2.34	5.000	6.12	8.083	5.04	11.17	1.98
2.000	2.34	5.083	6.12	8.167	5.04	11.25	1.80
2.083	2.34	5.167	6.12	8.250	3.96	11.33	1.80
2.167	2.34	5.250	9.72	8.333	3.96	11.42	1.80
2.250	3.06	5.333	9.72	8.417	3.96	11.50	1.80
2.333	3.06	5.417	9.72	8.500	3.96	11.58	1.80
2.417	3.06	5.500	9.72	8.583	3.96	11.67	1.80
2.500	3.06	5.583	9.72	8.667	3.96	11.75	1.80
2.583	3.06	5.667	9.72	8.750	4.14	11.83	1.80
2.667	3.06	5.750	77.04	8.833	4.14	11.92	1.80
2.750	2.70	5.833	77.04	8.917	4.14	12.00	1.80
2.833	2.70	5.917	77.04	9.000	4.14	12.08	1.80
2.917	2.70	6.000	77.04	9.083	4.14	12.17	1.80
3.000	2.70	6.083	77.04	9.167	4.14		
3.083	2.70	6.167	77.04	9.250	2.70		

ADD HYD (0012)	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
1 + 2 = 3				
ID1= 1 (0130):	1.57	0.153	6.17	46.54
+ ID2= 2 (0131):	10.63	0.173	6.92	15.92
=====				
ID = 3 (0012):	12.20	0.218	6.67	19.86

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB	Area (ha)	Curve Number (CN)
NASHYD (0141)	7.22	65.0
ID= 1 DT= 5.0 min	Ia (mm)= 14.60	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)= 0.54	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

Unit Hyd Qpeak (cms)= 0.511

PEAK FLOW (cms)= 0.252 (i)
 TIME TO PEAK (hrs)= 6.667
 RUNOFF VOLUME (mm)= 26.794
 TOTAL RAINFALL (mm)= 90.000
 RUNOFF COEFFICIENT = 0.298

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

----- TRANSFORMED HYETOGRAPH -----							
TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.70	6.250	19.62	9.33	2.70
0.167	0.00	3.250	3.60	6.333	19.62	9.42	2.70
0.250	2.70	3.333	3.60	6.417	19.62	9.50	2.70
0.333	2.70	3.417	3.60	6.500	19.62	9.58	2.70
0.417	2.70	3.500	3.60	6.583	19.62	9.67	2.70
0.500	2.70	3.583	3.60	6.667	19.62	9.75	2.16
0.583	2.70	3.667	3.60	6.750	8.64	9.83	2.16
0.667	2.70	3.750	3.60	6.833	8.64	9.92	2.16
0.750	1.26	3.833	3.60	6.917	8.64	10.00	2.16
0.833	1.26	3.917	3.60	7.000	8.64	10.08	2.16
0.917	1.26	4.000	3.60	7.083	8.64	10.17	2.16
1.000	1.26	4.083	3.60	7.167	8.64	10.25	3.06
1.083	1.26	4.167	3.60	7.250	5.76	10.33	3.06
1.167	1.26	4.250	4.86	7.333	5.76	10.42	3.06

CALIB	Area (ha)	Total Imp(%)	Dir. Conn.(%)
STANDHYD (0140)	0.76	26.00	26.00
ID= 1 DT= 5.0 min			

IMPERVIOUS PERVIOUS (i)
 Surface Area (ha)= 0.20 0.56
 Dep. Storage (mm)= 1.00 5.00
 Average Slope (%)= 1.00 2.00
 Length (m)= 71.35 40.00
 Mannings n = 0.013 0.350

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.70	6.250	19.62	9.33	2.70
0.167	0.00	3.250	3.60	6.333	19.62	9.42	2.70
0.250	2.70	3.333	3.60	6.417	19.62	9.50	2.70
0.333	2.70	3.417	3.60	6.500	19.62	9.58	2.70
0.417	2.70	3.500	3.60	6.583	19.62	9.67	2.70
0.500	2.70	3.583	3.60	6.667	19.62	9.75	2.16
0.583	2.70	3.667	3.60	6.750	8.64	9.83	2.16
0.667	2.70	3.750	3.60	6.833	8.64	9.92	2.16
0.750	1.26	3.833	3.60	6.917	8.64	10.00	2.16
0.833	1.26	3.917	3.60	7.000	8.64	10.08	2.16
0.917	1.26	4.000	3.60	7.083	8.64	10.17	2.16
1.000	1.26	4.083	3.60	7.167	8.64	10.25	3.06
1.083	1.26	4.167	3.60	7.250	5.76	10.33	3.06
1.167	1.26	4.250	4.86	7.333	5.76	10.42	3.06
1.250	2.34	4.333	4.86	7.417	5.76	10.50	3.06
1.333	2.34	4.417	4.86	7.500	5.76	10.58	3.06
1.417	2.34	4.500	4.86	7.583	5.76	10.67	3.06
1.500	2.34	4.583	4.86	7.667	5.76	10.75	1.98
1.583	2.34	4.667	4.86	7.750	5.04	10.83	1.98
1.667	2.34	4.750	6.12	7.833	5.04	10.92	1.98
1.750	2.34	4.833	6.12	7.917	5.04	11.00	1.98
1.833	2.34	4.917	6.12	8.000	5.04	11.08	1.98
1.917	2.34	5.000	6.12	8.083	5.04	11.17	1.98
2.000	2.34	5.083	6.12	8.167	5.04	11.25	1.80
2.083	2.34	5.167	6.12	8.250	3.96	11.33	1.80
2.167	2.34	5.250	9.72	8.333	3.96	11.42	1.80
2.250	3.06	5.333	9.72	8.417	3.96	11.50	1.80
2.333	3.06	5.417	9.72	8.500	3.96	11.58	1.80
2.417	3.06	5.500	9.72	8.583	3.96	11.67	1.80
2.500	3.06	5.583	9.72	8.667	3.96	11.75	1.80
2.583	3.06	5.667	9.72	8.750	4.14	11.83	1.80
2.667	3.06	5.750	77.04	8.833	4.14	11.92	1.80
2.750	2.70	5.833	77.04	8.917	4.14	12.00	1.80
2.833	2.70	5.917	77.04	9.000	4.14	12.08	1.80
2.917	2.70	6.000	77.04	9.083	4.14	12.17	1.80
3.000	2.70	6.083	77.04	9.167	4.14		
3.083	2.70	6.167	77.04	9.250	2.70		

Max.Eff.Inten.(mm/hr)= 77.04 23.51
over (min) 5.00 20.00
Storage Coeff. (min)= 2.32 (ii) 17.73 (ii)
Unit Hyd. Tpeak (min)= 5.00 20.00
Unit Hyd. peak (cms)= 0.30 0.06

TOTALS
PEAK FLOW (cms)= 0.04 0.03 0.064 (iii)
TIME TO PEAK (hrs)= 6.17 6.33 6.17
RUNOFF VOLUME (mm)= 89.00 24.67 41.39

TOTAL RAINFALL (mm)= 90.00 90.00 90.00
RUNOFF COEFFICIENT = 0.99 0.27 0.46

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 55.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0015)	AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0140):	0.76	0.064	6.17	41.39
+ ID2= 2 (0141):	7.22	0.252	6.67	26.79
=====				
ID = 3 (0015):	7.98	0.280	6.67	28.18

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB	Area	(ha)=	Curve Number	(CN)=
NASHYD (0151)	14.07	14.07	66.0	66.0
ID= 1 DT= 5.0 min	14.20	14.20	3.00	3.00
	U.H. Tp	(hrs)=		
	0.18	0.18		

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.70	6.250	19.62	9.33	2.70
0.167	0.00	3.250	3.60	6.333	19.62	9.42	2.70
0.250	2.70	3.333	3.60	6.417	19.62	9.50	2.70
0.333	2.70	3.417	3.60	6.500	19.62	9.58	2.70
0.417	2.70	3.500	3.60	6.583	19.62	9.67	2.70
0.500	2.70	3.583	3.60	6.667	19.62	9.75	2.16
0.583	2.70	3.667	3.60	6.750	8.64	9.83	2.16
0.667	2.70	3.750	3.60	6.833	8.64	9.92	2.16
0.750	1.26	3.833	3.60	6.917	8.64	10.00	2.16
0.833	1.26	3.917	3.60	7.000	8.64	10.08	2.16
0.917	1.26	4.000	3.60	7.083	8.64	10.17	2.16
1.000	1.26	4.083	3.60	7.167	8.64	10.25	3.06
1.083	1.26	4.167	3.60	7.250	5.76	10.33	3.06
1.167	1.26	4.250	4.86	7.333	5.76	10.42	3.06

1.250	2.34	4.333	4.86	7.417	5.76	10.50	3.06
1.333	2.34	4.417	4.86	7.500	5.76	10.58	3.06
1.417	2.34	4.500	4.86	7.583	5.76	10.67	3.06
1.500	2.34	4.583	4.86	7.667	5.76	10.75	1.98
1.583	2.34	4.667	4.86	7.750	5.04	10.83	1.98
1.667	2.34	4.750	6.12	7.833	5.04	10.92	1.98
1.750	2.34	4.833	6.12	7.917	5.04	11.00	1.98
1.833	2.34	4.917	6.12	8.000	5.04	11.08	1.98
1.917	2.34	5.000	6.12	8.083	5.04	11.17	1.98
2.000	2.34	5.083	6.12	8.167	5.04	11.25	1.80
2.083	2.34	5.167	6.12	8.250	3.96	11.33	1.80
2.167	2.34	5.250	9.72	8.333	3.96	11.42	1.80
2.250	3.06	5.333	9.72	8.417	3.96	11.50	1.80
2.333	3.06	5.417	9.72	8.500	3.96	11.58	1.80
2.417	3.06	5.500	9.72	8.583	3.96	11.67	1.80
2.500	3.06	5.583	9.72	8.667	3.96	11.75	1.80
2.583	3.06	5.667	9.72	8.750	4.14	11.83	1.80
2.667	3.06	5.750	77.04	8.833	4.14	11.92	1.80
2.750	2.70	5.833	77.04	8.917	4.14	12.00	1.80
2.833	2.70	5.917	77.04	9.000	4.14	12.08	1.80
2.917	2.70	6.000	77.04	9.083	4.14	12.17	1.80
3.000	2.70	6.083	77.04	9.167	4.14		
3.083	2.70	6.167	77.04	9.250	2.70		

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.70	6.250	19.62	9.33	2.70
0.167	0.00	3.250	3.60	6.333	19.62	9.42	2.70
0.250	2.70	3.333	3.60	6.417	19.62	9.50	2.70
0.333	2.70	3.417	3.60	6.500	19.62	9.58	2.70
0.417	2.70	3.500	3.60	6.583	19.62	9.67	2.70
0.500	2.70	3.583	3.60	6.667	19.62	9.75	2.16
0.583	2.70	3.667	3.60	6.750	8.64	9.83	2.16
0.667	2.70	3.750	3.60	6.833	8.64	9.92	2.16
0.750	1.26	3.833	3.60	6.917	8.64	10.00	2.16
0.833	1.26	3.917	3.60	7.000	8.64	10.08	2.16
0.917	1.26	4.000	3.60	7.083	8.64	10.17	2.16
1.000	1.26	4.083	3.60	7.167	8.64	10.25	3.06
1.083	1.26	4.167	3.60	7.250	5.76	10.33	3.06
1.167	1.26	4.250	4.86	7.333	5.76	10.42	3.06
1.250	2.34	4.333	4.86	7.417	5.76	10.50	3.06
1.333	2.34	4.417	4.86	7.500	5.76	10.58	3.06
1.417	2.34	4.500	4.86	7.583	5.76	10.67	3.06
1.500	2.34	4.583	4.86	7.667	5.76	10.75	1.98
1.583	2.34	4.667	4.86	7.750	5.04	10.83	1.98
1.667	2.34	4.750	6.12	7.833	5.04	10.92	1.98
1.750	2.34	4.833	6.12	7.917	5.04	11.00	1.98
1.833	2.34	4.917	6.12	8.000	5.04	11.08	1.98
1.917	2.34	5.000	6.12	8.083	5.04	11.17	1.98
2.000	2.34	5.083	6.12	8.167	5.04	11.25	1.80
2.083	2.34	5.167	6.12	8.250	3.96	11.33	1.80
2.167	2.34	5.250	9.72	8.333	3.96	11.42	1.80
2.250	3.06	5.333	9.72	8.417	3.96	11.50	1.80
2.333	3.06	5.417	9.72	8.500	3.96	11.58	1.80
2.417	3.06	5.500	9.72	8.583	3.96	11.67	1.80
2.500	3.06	5.583	9.72	8.667	3.96	11.75	1.80
2.583	3.06	5.667	9.72	8.750	4.14	11.83	1.80
2.667	3.06	5.750	77.04	8.833	4.14	11.92	1.80
2.750	2.70	5.833	77.04	8.917	4.14	12.00	1.80
2.833	2.70	5.917	77.04	9.000	4.14	12.08	1.80
2.917	2.70	6.000	77.04	9.083	4.14	12.17	1.80
3.000	2.70	6.083	77.04	9.167	4.14		
3.083	2.70	6.167	77.04	9.250	2.70		

Unit Hyd Qpeak (cms)= 2.986

PEAK FLOW (cms)= 0.930 (i)
 TIME TO PEAK (hrs)= 6.167
 RUNOFF VOLUME (mm)= 27.724
 TOTAL RAINFALL (mm)= 90.000
 RUNOFF COEFFICIENT = 0.308

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	Area (ha)= 1.35
STANDHYD (0150)	Total Imp(%)= 26.00 Dir. Conn.(%)= 26.00
ID= 1 DT= 5.0 min	

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.35	1.00
Dep. Storage (mm)=	1.00	5.00
Average Slope (%)=	1.00	2.00
Length (m)=	94.72	40.00
Mannings n =	0.013	0.350

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

Max.Eff.Inten.(mm/hr)=	77.04	23.51
over (min)	5.00	20.00
Storage Coeff. (min)=	2.74 (ii)	18.16 (ii)
Unit Hyd. Tpeak (min)=	5.00	20.00
Unit Hyd. peak (cms)=	0.28	0.06

TOTALS

PEAK FLOW (cms)=	0.08	0.04	0.113 (iii)
TIME TO PEAK (hrs)=	6.17	6.33	6.17
RUNOFF VOLUME (mm)=	89.00	24.67	41.39

TOTAL RAINFALL (mm)= 90.00 90.00 90.00
 RUNOFF COEFFICIENT = 0.99 0.27 0.46

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
 CN* = 55.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
 THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

1.250	2.34	4.333	4.86	7.417	5.76	10.50	3.06
1.333	2.34	4.417	4.86	7.500	5.76	10.58	3.06
1.417	2.34	4.500	4.86	7.583	5.76	10.67	3.06
1.500	2.34	4.583	4.86	7.667	5.76	10.75	1.98
1.583	2.34	4.667	4.86	7.750	5.04	10.83	1.98
1.667	2.34	4.750	6.12	7.833	5.04	10.92	1.98
1.750	2.34	4.833	6.12	7.917	5.04	11.00	1.98
1.833	2.34	4.917	6.12	8.000	5.04	11.08	1.98
1.917	2.34	5.000	6.12	8.083	5.04	11.17	1.98
2.000	2.34	5.083	6.12	8.167	5.04	11.25	1.80
2.083	2.34	5.167	6.12	8.250	3.96	11.33	1.80
2.167	2.34	5.250	9.72	8.333	3.96	11.42	1.80
2.250	3.06	5.333	9.72	8.417	3.96	11.50	1.80
2.333	3.06	5.417	9.72	8.500	3.96	11.58	1.80
2.417	3.06	5.500	9.72	8.583	3.96	11.67	1.80
2.500	3.06	5.583	9.72	8.667	3.96	11.75	1.80
2.583	3.06	5.667	9.72	8.750	4.14	11.83	1.80
2.667	3.06	5.750	77.04	8.833	4.14	11.92	1.80
2.750	2.70	5.833	77.04	8.917	4.14	12.00	1.80
2.833	2.70	5.917	77.04	9.000	4.14	12.08	1.80
2.917	2.70	6.000	77.04	9.083	4.14	12.17	1.80
3.000	2.70	6.083	77.04	9.167	4.14		
3.083	2.70	6.167	77.04	9.250	2.70		

ADD HYD (0018)	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
1 + 2 = 3				
ID1= 1 (0150):	1.35	0.113	6.17	41.39
+ ID2= 2 (0151):	14.07	0.930	6.17	27.72
=====				
ID = 3 (0018):	15.42	1.043	6.17	28.92

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB	Area (ha)	Curve Number (CN)
NASHYD (0161)	131.28	75.0
ID= 1 DT= 5.0 min	Ia (mm)= 8.60	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)= 0.95	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

Unit Hyd Qpeak (cms)= 5.278

PEAK FLOW (cms)= 4.930 (i)
 TIME TO PEAK (hrs)= 7.083
 RUNOFF VOLUME (mm)= 39.899
 TOTAL RAINFALL (mm)= 90.000
 RUNOFF COEFFICIENT = 0.443

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

----- TRANSFORMED HYETOGRAPH -----							
TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.70	6.250	19.62	9.33	2.70
0.167	0.00	3.250	3.60	6.333	19.62	9.42	2.70
0.250	2.70	3.333	3.60	6.417	19.62	9.50	2.70
0.333	2.70	3.417	3.60	6.500	19.62	9.58	2.70
0.417	2.70	3.500	3.60	6.583	19.62	9.67	2.70
0.500	2.70	3.583	3.60	6.667	19.62	9.75	2.16
0.583	2.70	3.667	3.60	6.750	8.64	9.83	2.16
0.667	2.70	3.750	3.60	6.833	8.64	9.92	2.16
0.750	1.26	3.833	3.60	6.917	8.64	10.00	2.16
0.833	1.26	3.917	3.60	7.000	8.64	10.08	2.16
0.917	1.26	4.000	3.60	7.083	8.64	10.17	2.16
1.000	1.26	4.083	3.60	7.167	8.64	10.25	3.06
1.083	1.26	4.167	3.60	7.250	5.76	10.33	3.06
1.167	1.26	4.250	4.86	7.333	5.76	10.42	3.06

CALIB	Area (ha)	Total Imp(%)	Dir. Conn.(%)
STANDHYD (0160)	3.05	28.00	28.00
ID= 1 DT= 5.0 min			

IMPERVIOUS PVIOUS (i)
 Surface Area (ha)= 0.85 2.20
 Dep. Storage (mm)= 1.00 5.00
 Average Slope (%)= 1.00 2.00
 Length (m)= 142.49 40.00
 Mannings n = 0.013 0.350

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.70	6.250	19.62	9.33	2.70
0.167	0.00	3.250	3.60	6.333	19.62	9.42	2.70
0.250	2.70	3.333	3.60	6.417	19.62	9.50	2.70
0.333	2.70	3.417	3.60	6.500	19.62	9.58	2.70
0.417	2.70	3.500	3.60	6.583	19.62	9.67	2.70
0.500	2.70	3.583	3.60	6.667	19.62	9.75	2.16
0.583	2.70	3.667	3.60	6.750	8.64	9.83	2.16
0.667	2.70	3.750	3.60	6.833	8.64	9.92	2.16
0.750	1.26	3.833	3.60	6.917	8.64	10.00	2.16
0.833	1.26	3.917	3.60	7.000	8.64	10.08	2.16
0.917	1.26	4.000	3.60	7.083	8.64	10.17	2.16
1.000	1.26	4.083	3.60	7.167	8.64	10.25	3.06
1.083	1.26	4.167	3.60	7.250	5.76	10.33	3.06
1.167	1.26	4.250	4.86	7.333	5.76	10.42	3.06
1.250	2.34	4.333	4.86	7.417	5.76	10.50	3.06
1.333	2.34	4.417	4.86	7.500	5.76	10.58	3.06
1.417	2.34	4.500	4.86	7.583	5.76	10.67	3.06
1.500	2.34	4.583	4.86	7.667	5.76	10.75	1.98
1.583	2.34	4.667	4.86	7.750	5.04	10.83	1.98
1.667	2.34	4.750	6.12	7.833	5.04	10.92	1.98
1.750	2.34	4.833	6.12	7.917	5.04	11.00	1.98
1.833	2.34	4.917	6.12	8.000	5.04	11.08	1.98
1.917	2.34	5.000	6.12	8.083	5.04	11.17	1.98
2.000	2.34	5.083	6.12	8.167	5.04	11.25	1.80
2.083	2.34	5.167	6.12	8.250	3.96	11.33	1.80
2.167	2.34	5.250	9.72	8.333	3.96	11.42	1.80
2.250	3.06	5.333	9.72	8.417	3.96	11.50	1.80
2.333	3.06	5.417	9.72	8.500	3.96	11.58	1.80
2.417	3.06	5.500	9.72	8.583	3.96	11.67	1.80
2.500	3.06	5.583	9.72	8.667	3.96	11.75	1.80
2.583	3.06	5.667	9.72	8.750	4.14	11.83	1.80
2.667	3.06	5.750	77.04	8.833	4.14	11.92	1.80
2.750	2.70	5.833	77.04	8.917	4.14	12.00	1.80
2.833	2.70	5.917	77.04	9.000	4.14	12.08	1.80
2.917	2.70	6.000	77.04	9.083	4.14	12.17	1.80
3.000	2.70	6.083	77.04	9.167	4.14		
3.083	2.70	6.167	77.04	9.250	2.70		

Max.Eff.Inten.(mm/hr)= 77.04 23.51
over (min) 5.00 20.00
Storage Coeff. (min)= 3.51 (ii) 18.92 (ii)
Unit Hyd. Tpeak (min)= 5.00 20.00
Unit Hyd. peak (cms)= 0.26 0.06

TOTALS
PEAK FLOW (cms)= 0.18 0.10 0.264 (iii)
TIME TO PEAK (hrs)= 6.17 6.33 6.17
RUNOFF VOLUME (mm)= 89.00 24.67 42.68

TOTAL RAINFALL (mm)= 90.00 90.00 90.00
RUNOFF COEFFICIENT = 0.99 0.27 0.47

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 55.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0021)	AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0160):	3.05	0.264	6.17	42.68
+ ID2= 2 (0161):	131.28	4.930	7.08	39.90
=====				
ID = 3 (0021):	134.33	4.990	7.08	39.96

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB	Area	(ha)	Curve Number	(CN)=
NASHYD (0171)	32.39		59.0	
ID= 1 DT= 5.0 min	Ia	(mm)= 19.10	# of Linear Res.(N)=	3.00
		U.H. Tp(hrs)=	0.89	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.70	6.250	19.62	9.33	2.70
0.167	0.00	3.250	3.60	6.333	19.62	9.42	2.70
0.250	2.70	3.333	3.60	6.417	19.62	9.50	2.70
0.333	2.70	3.417	3.60	6.500	19.62	9.58	2.70
0.417	2.70	3.500	3.60	6.583	19.62	9.67	2.70
0.500	2.70	3.583	3.60	6.667	19.62	9.75	2.16
0.583	2.70	3.667	3.60	6.750	8.64	9.83	2.16
0.667	2.70	3.750	3.60	6.833	8.64	9.92	2.16
0.750	1.26	3.833	3.60	6.917	8.64	10.00	2.16
0.833	1.26	3.917	3.60	7.000	8.64	10.08	2.16
0.917	1.26	4.000	3.60	7.083	8.64	10.17	2.16
1.000	1.26	4.083	3.60	7.167	8.64	10.25	3.06
1.083	1.26	4.167	3.60	7.250	5.76	10.33	3.06
1.167	1.26	4.250	4.86	7.333	5.76	10.42	3.06

1.250	2.34	4.333	4.86	7.417	5.76	10.50	3.06
1.333	2.34	4.417	4.86	7.500	5.76	10.58	3.06
1.417	2.34	4.500	4.86	7.583	5.76	10.67	3.06
1.500	2.34	4.583	4.86	7.667	5.76	10.75	1.98
1.583	2.34	4.667	4.86	7.750	5.04	10.83	1.98
1.667	2.34	4.750	6.12	7.833	5.04	10.92	1.98
1.750	2.34	4.833	6.12	7.917	5.04	11.00	1.98
1.833	2.34	4.917	6.12	8.000	5.04	11.08	1.98
1.917	2.34	5.000	6.12	8.083	5.04	11.17	1.98
2.000	2.34	5.083	6.12	8.167	5.04	11.25	1.80
2.083	2.34	5.167	6.12	8.250	3.96	11.33	1.80
2.167	2.34	5.250	9.72	8.333	3.96	11.42	1.80
2.250	3.06	5.333	9.72	8.417	3.96	11.50	1.80
2.333	3.06	5.417	9.72	8.500	3.96	11.58	1.80
2.417	3.06	5.500	9.72	8.583	3.96	11.67	1.80
2.500	3.06	5.583	9.72	8.667	3.96	11.75	1.80
2.583	3.06	5.667	9.72	8.750	4.14	11.83	1.80
2.667	3.06	5.750	77.04	8.833	4.14	11.92	1.80
2.750	2.70	5.833	77.04	8.917	4.14	12.00	1.80
2.833	2.70	5.917	77.04	9.000	4.14	12.08	1.80
2.917	2.70	6.000	77.04	9.083	4.14	12.17	1.80
3.000	2.70	6.083	77.04	9.167	4.14		
3.083	2.70	6.167	77.04	9.250	2.70		

0.333	2.70	3.417	3.60	6.500	19.62	9.58	2.70
0.417	2.70	3.500	3.60	6.583	19.62	9.67	2.70
0.500	2.70	3.583	3.60	6.667	19.62	9.75	2.16
0.583	2.70	3.667	3.60	6.750	8.64	9.83	2.16
0.667	2.70	3.750	3.60	6.833	8.64	9.92	2.16
0.750	1.26	3.833	3.60	6.917	8.64	10.00	2.16
0.833	1.26	3.917	3.60	7.000	8.64	10.08	2.16
0.917	1.26	4.000	3.60	7.083	8.64	10.17	2.16
1.000	1.26	4.083	3.60	7.167	8.64	10.25	3.06
1.083	1.26	4.167	3.60	7.250	5.76	10.33	3.06
1.167	1.26	4.250	4.86	7.333	5.76	10.42	3.06
1.250	2.34	4.333	4.86	7.417	5.76	10.50	3.06
1.333	2.34	4.417	4.86	7.500	5.76	10.58	3.06
1.417	2.34	4.500	4.86	7.583	5.76	10.67	3.06
1.500	2.34	4.583	4.86	7.667	5.76	10.75	1.98
1.583	2.34	4.667	4.86	7.750	5.04	10.83	1.98
1.667	2.34	4.750	6.12	7.833	5.04	10.92	1.98
1.750	2.34	4.833	6.12	7.917	5.04	11.00	1.98
1.833	2.34	4.917	6.12	8.000	5.04	11.08	1.98
1.917	2.34	5.000	6.12	8.083	5.04	11.17	1.98
2.000	2.34	5.083	6.12	8.167	5.04	11.25	1.80
2.083	2.34	5.167	6.12	8.250	3.96	11.33	1.80
2.167	2.34	5.250	9.72	8.333	3.96	11.42	1.80
2.250	3.06	5.333	9.72	8.417	3.96	11.50	1.80
2.333	3.06	5.417	9.72	8.500	3.96	11.58	1.80
2.417	3.06	5.500	9.72	8.583	3.96	11.67	1.80
2.500	3.06	5.583	9.72	8.667	3.96	11.75	1.80
2.583	3.06	5.667	9.72	8.750	4.14	11.83	1.80
2.667	3.06	5.750	77.04	8.833	4.14	11.92	1.80
2.750	2.70	5.833	77.04	8.917	4.14	12.00	1.80
2.833	2.70	5.917	77.04	9.000	4.14	12.08	1.80
2.917	2.70	6.000	77.04	9.083	4.14	12.17	1.80
3.000	2.70	6.083	77.04	9.167	4.14		
3.083	2.70	6.167	77.04	9.250	2.70		

Unit Hyd Qpeak (cms)= 1.390

PEAK FLOW (cms)= 0.594 (i)
 TIME TO PEAK (hrs)= 7.167
 RUNOFF VOLUME (mm)= 20.318
 TOTAL RAINFALL (mm)= 90.000
 RUNOFF COEFFICIENT = 0.226

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | NASHYD (0180) | Area (ha)= 2.46 Curve Number (CN)= 55.0
 | ID= 1 DT= 5.0 min | Ia (mm)= 22.60 # of Linear Res.(N)= 3.00

 U.H. Tp(hrs)= 0.99

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.70	6.250	19.62	9.33	2.70
0.167	0.00	3.250	3.60	6.333	19.62	9.42	2.70
0.250	2.70	3.333	3.60	6.417	19.62	9.50	2.70

Unit Hyd Qpeak (cms)= 0.095

PEAK FLOW (cms)= 0.033 (i)
 TIME TO PEAK (hrs)= 7.333
 RUNOFF VOLUME (mm)= 16.505
 TOTAL RAINFALL (mm)= 90.000
 RUNOFF COEFFICIENT = 0.183

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | STANDHYD (0181) | Area (ha)= 1.21
 | ID= 1 DT= 5.0 min | Total Imp(%)= 28.00 Dir. Conn.(%)= 28.00

3.083 2.70 | 6.167 77.04 | 9.250 2.70 |

IMPERVIOUS PERVIOUS (i)
 Surface Area (ha)= 0.34 0.87
 Dep. Storage (mm)= 1.00 5.00
 Average Slope (%)= 1.00 2.00
 Length (m)= 89.96 40.00
 Mannings n = 0.013 0.350

Max.Eff.Inten.(mm/hr)= 77.04 23.51
 over (min) 5.00 20.00
 Storage Coeff. (min)= 2.66 (ii) 18.07 (ii)
 Unit Hyd. Tpeak (min)= 5.00 20.00
 Unit Hyd. peak (cms)= 0.29 0.06

TOTALS

PEAK FLOW (cms)= 0.07 0.04 0.105 (iii)
 TIME TO PEAK (hrs)= 6.17 6.33 6.17
 RUNOFF VOLUME (mm)= 89.00 24.67 42.68
 TOTAL RAINFALL (mm)= 90.00 90.00 90.00
 RUNOFF COEFFICIENT = 0.99 0.27 0.47

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.70	6.250	19.62	9.33	2.70
0.167	0.00	3.250	3.60	6.333	19.62	9.42	2.70
0.250	2.70	3.333	3.60	6.417	19.62	9.50	2.70
0.333	2.70	3.417	3.60	6.500	19.62	9.58	2.70
0.417	2.70	3.500	3.60	6.583	19.62	9.67	2.70
0.500	2.70	3.583	3.60	6.667	19.62	9.75	2.16
0.583	2.70	3.667	3.60	6.750	8.64	9.83	2.16
0.667	2.70	3.750	3.60	6.833	8.64	9.92	2.16
0.750	1.26	3.833	3.60	6.917	8.64	10.00	2.16
0.833	1.26	3.917	3.60	7.000	8.64	10.08	2.16
0.917	1.26	4.000	3.60	7.083	8.64	10.17	2.16
1.000	1.26	4.083	3.60	7.167	8.64	10.25	3.06
1.083	1.26	4.167	3.60	7.250	5.76	10.33	3.06
1.167	1.26	4.250	4.86	7.333	5.76	10.42	3.06
1.250	2.34	4.333	4.86	7.417	5.76	10.50	3.06
1.333	2.34	4.417	4.86	7.500	5.76	10.58	3.06
1.417	2.34	4.500	4.86	7.583	5.76	10.67	3.06
1.500	2.34	4.583	4.86	7.667	5.76	10.75	1.98
1.583	2.34	4.667	4.86	7.750	5.04	10.83	1.98
1.667	2.34	4.750	6.12	7.833	5.04	10.92	1.98
1.750	2.34	4.833	6.12	7.917	5.04	11.00	1.98
1.833	2.34	4.917	6.12	8.000	5.04	11.08	1.98
1.917	2.34	5.000	6.12	8.083	5.04	11.17	1.98
2.000	2.34	5.083	6.12	8.167	5.04	11.25	1.80
2.083	2.34	5.167	6.12	8.250	3.96	11.33	1.80
2.167	2.34	5.250	9.72	8.333	3.96	11.42	1.80
2.250	3.06	5.333	9.72	8.417	3.96	11.50	1.80
2.333	3.06	5.417	9.72	8.500	3.96	11.58	1.80
2.417	3.06	5.500	9.72	8.583	3.96	11.67	1.80
2.500	3.06	5.583	9.72	8.667	3.96	11.75	1.80
2.583	3.06	5.667	9.72	8.750	4.14	11.83	1.80
2.667	3.06	5.750	77.04	8.833	4.14	11.92	1.80
2.750	2.70	5.833	77.04	8.917	4.14	12.00	1.80
2.833	2.70	5.917	77.04	9.000	4.14	12.08	1.80
2.917	2.70	6.000	77.04	9.083	4.14	12.17	1.80
3.000	2.70	6.083	77.04	9.167	4.14		

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 55.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0027)				
1 + 2 = 3				
	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0180):	2.46	0.033	7.33	16.51
+ ID2= 2 (0181):	1.21	0.105	6.17	42.68
=====				
ID = 3 (0027):	3.67	0.110	6.17	25.13

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ADD HYD (0062)				
1 + 2 = 3				
	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0171):	32.39	0.594	7.17	20.32
+ ID2= 2 (0027):	3.67	0.110	6.17	25.13
=====				
ID = 3 (0062):	36.06	0.648	7.17	20.81

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB	
STANDHYD (0170)	
Area	(ha)=
3.33	

|ID= 1 DT= 5.0 min | Total Imp(%)= 29.00 Dir. Conn.(%)= 29.00

3.000	2.70	6.083	77.04	9.167	4.14
3.083	2.70	6.167	77.04	9.250	2.70

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.97	2.36
Dep. Storage (mm)=	1.00	5.00
Average Slope (%)=	1.00	2.00
Length (m)=	149.09	40.00
Mannings n =	0.013	0.350

Max.Eff.Inten.(mm/hr)=	77.04	23.51
over (min)	5.00	20.00
Storage Coeff. (min)=	3.60 (ii)	19.01 (ii)
Unit Hyd. Tpeak (min)=	5.00	20.00
Unit Hyd. peak (cms)=	0.25	0.06

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

			TOTALS
PEAK FLOW (cms)=	0.21	0.10	0.294 (iii)
TIME TO PEAK (hrs)=	6.17	6.33	6.17
RUNOFF VOLUME (mm)=	89.00	24.67	43.33
TOTAL RAINFALL (mm)=	90.00	90.00	90.00
RUNOFF COEFFICIENT =	0.99	0.27	0.48

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.70	6.250	19.62	9.33	2.70
0.167	0.00	3.250	3.60	6.333	19.62	9.42	2.70
0.250	2.70	3.333	3.60	6.417	19.62	9.50	2.70
0.333	2.70	3.417	3.60	6.500	19.62	9.58	2.70
0.417	2.70	3.500	3.60	6.583	19.62	9.67	2.70
0.500	2.70	3.583	3.60	6.667	19.62	9.75	2.16
0.583	2.70	3.667	3.60	6.750	8.64	9.83	2.16
0.667	2.70	3.750	3.60	6.833	8.64	9.92	2.16
0.750	1.26	3.833	3.60	6.917	8.64	10.00	2.16
0.833	1.26	3.917	3.60	7.000	8.64	10.08	2.16
0.917	1.26	4.000	3.60	7.083	8.64	10.17	2.16
1.000	1.26	4.083	3.60	7.167	8.64	10.25	3.06
1.083	1.26	4.167	3.60	7.250	5.76	10.33	3.06
1.167	1.26	4.250	4.86	7.333	5.76	10.42	3.06
1.250	2.34	4.333	4.86	7.417	5.76	10.50	3.06
1.333	2.34	4.417	4.86	7.500	5.76	10.58	3.06
1.417	2.34	4.500	4.86	7.583	5.76	10.67	3.06
1.500	2.34	4.583	4.86	7.667	5.76	10.75	1.98
1.583	2.34	4.667	4.86	7.750	5.04	10.83	1.98
1.667	2.34	4.750	6.12	7.833	5.04	10.92	1.98
1.750	2.34	4.833	6.12	7.917	5.04	11.00	1.98
1.833	2.34	4.917	6.12	8.000	5.04	11.08	1.98
1.917	2.34	5.000	6.12	8.083	5.04	11.17	1.98
2.000	2.34	5.083	6.12	8.167	5.04	11.25	1.80
2.083	2.34	5.167	6.12	8.250	3.96	11.33	1.80
2.167	2.34	5.250	9.72	8.333	3.96	11.42	1.80
2.250	3.06	5.333	9.72	8.417	3.96	11.50	1.80
2.333	3.06	5.417	9.72	8.500	3.96	11.58	1.80
2.417	3.06	5.500	9.72	8.583	3.96	11.67	1.80
2.500	3.06	5.583	9.72	8.667	3.96	11.75	1.80
2.583	3.06	5.667	9.72	8.750	4.14	11.83	1.80
2.667	3.06	5.750	77.04	8.833	4.14	11.92	1.80
2.750	2.70	5.833	77.04	8.917	4.14	12.00	1.80
2.833	2.70	5.917	77.04	9.000	4.14	12.08	1.80
2.917	2.70	6.000	77.04	9.083	4.14	12.17	1.80

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 55.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ADD HYD (0024)				
1 + 2 = 3				
ID1= 1 (0170):	3.33	0.294	6.17	43.33
+ ID2= 2 (0062):	36.06	0.648	7.17	20.81
=====				
ID = 3 (0024):	39.39	0.711	7.08	22.71

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

	Area	(ha)=	Curve Number	(CN)=
CALIB				
NASHYD (0221)	14.91		59.0	
ID= 1 DT= 5.0 min	Ia	(mm)= 18.90	# of Linear Res.(N)= 3.00	
-----	U.H. Tp(hrs)=	0.41		

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.70	6.250	19.62	9.33	2.70
0.167	0.00	3.250	3.60	6.333	19.62	9.42	2.70

0.250	2.70	3.333	3.60	6.417	19.62	9.50	2.70
0.333	2.70	3.417	3.60	6.500	19.62	9.58	2.70
0.417	2.70	3.500	3.60	6.583	19.62	9.67	2.70
0.500	2.70	3.583	3.60	6.667	19.62	9.75	2.16
0.583	2.70	3.667	3.60	6.750	8.64	9.83	2.16
0.667	2.70	3.750	3.60	6.833	8.64	9.92	2.16
0.750	1.26	3.833	3.60	6.917	8.64	10.00	2.16
0.833	1.26	3.917	3.60	7.000	8.64	10.08	2.16
0.917	1.26	4.000	3.60	7.083	8.64	10.17	2.16
1.000	1.26	4.083	3.60	7.167	8.64	10.25	3.06
1.083	1.26	4.167	3.60	7.250	5.76	10.33	3.06
1.167	1.26	4.250	4.86	7.333	5.76	10.42	3.06
1.250	2.34	4.333	4.86	7.417	5.76	10.50	3.06
1.333	2.34	4.417	4.86	7.500	5.76	10.58	3.06
1.417	2.34	4.500	4.86	7.583	5.76	10.67	3.06
1.500	2.34	4.583	4.86	7.667	5.76	10.75	1.98
1.583	2.34	4.667	4.86	7.750	5.04	10.83	1.98
1.667	2.34	4.750	6.12	7.833	5.04	10.92	1.98
1.750	2.34	4.833	6.12	7.917	5.04	11.00	1.98
1.833	2.34	4.917	6.12	8.000	5.04	11.08	1.98
1.917	2.34	5.000	6.12	8.083	5.04	11.17	1.98
2.000	2.34	5.083	6.12	8.167	5.04	11.25	1.80
2.083	2.34	5.167	6.12	8.250	3.96	11.33	1.80
2.167	2.34	5.250	9.72	8.333	3.96	11.42	1.80
2.250	3.06	5.333	9.72	8.417	3.96	11.50	1.80
2.333	3.06	5.417	9.72	8.500	3.96	11.58	1.80
2.417	3.06	5.500	9.72	8.583	3.96	11.67	1.80
2.500	3.06	5.583	9.72	8.667	3.96	11.75	1.80
2.583	3.06	5.667	9.72	8.750	4.14	11.83	1.80
2.667	3.06	5.750	77.04	8.833	4.14	11.92	1.80
2.750	2.70	5.833	77.04	8.917	4.14	12.00	1.80
2.833	2.70	5.917	77.04	9.000	4.14	12.08	1.80
2.917	2.70	6.000	77.04	9.083	4.14	12.17	1.80
3.000	2.70	6.083	77.04	9.167	4.14		
3.083	2.70	6.167	77.04	9.250	2.70		

Unit Hyd Qpeak (cms)= 1.389

PEAK FLOW (cms)= 0.442 (i)
 TIME TO PEAK (hrs)= 6.500
 RUNOFF VOLUME (mm)= 20.414
 TOTAL RAINFALL (mm)= 90.000
 RUNOFF COEFFICIENT = 0.227

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

|ID= 1 DT= 5.0 min | Total Imp(%)= 99.00 Dir. Conn.(%)= 99.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.87	0.01
Dep. Storage	(mm)=	1.00	5.00
Average Slope	(%)=	1.00	2.00
Length	(m)=	76.42	40.00
Mannings n	=	0.013	0.350

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.70	6.250	19.62	9.33	2.70
0.167	0.00	3.250	3.60	6.333	19.62	9.42	2.70
0.250	2.70	3.333	3.60	6.417	19.62	9.50	2.70
0.333	2.70	3.417	3.60	6.500	19.62	9.58	2.70
0.417	2.70	3.500	3.60	6.583	19.62	9.67	2.70
0.500	2.70	3.583	3.60	6.667	19.62	9.75	2.16
0.583	2.70	3.667	3.60	6.750	8.64	9.83	2.16
0.667	2.70	3.750	3.60	6.833	8.64	9.92	2.16
0.750	1.26	3.833	3.60	6.917	8.64	10.00	2.16
0.833	1.26	3.917	3.60	7.000	8.64	10.08	2.16
0.917	1.26	4.000	3.60	7.083	8.64	10.17	2.16
1.000	1.26	4.083	3.60	7.167	8.64	10.25	3.06
1.083	1.26	4.167	3.60	7.250	5.76	10.33	3.06
1.167	1.26	4.250	4.86	7.333	5.76	10.42	3.06
1.250	2.34	4.333	4.86	7.417	5.76	10.50	3.06
1.333	2.34	4.417	4.86	7.500	5.76	10.58	3.06
1.417	2.34	4.500	4.86	7.583	5.76	10.67	3.06
1.500	2.34	4.583	4.86	7.667	5.76	10.75	1.98
1.583	2.34	4.667	4.86	7.750	5.04	10.83	1.98
1.667	2.34	4.750	6.12	7.833	5.04	10.92	1.98
1.750	2.34	4.833	6.12	7.917	5.04	11.00	1.98
1.833	2.34	4.917	6.12	8.000	5.04	11.08	1.98
1.917	2.34	5.000	6.12	8.083	5.04	11.17	1.98
2.000	2.34	5.083	6.12	8.167	5.04	11.25	1.80
2.083	2.34	5.167	6.12	8.250	3.96	11.33	1.80
2.167	2.34	5.250	9.72	8.333	3.96	11.42	1.80
2.250	3.06	5.333	9.72	8.417	3.96	11.50	1.80
2.333	3.06	5.417	9.72	8.500	3.96	11.58	1.80
2.417	3.06	5.500	9.72	8.583	3.96	11.67	1.80
2.500	3.06	5.583	9.72	8.667	3.96	11.75	1.80
2.583	3.06	5.667	9.72	8.750	4.14	11.83	1.80
2.667	3.06	5.750	77.04	8.833	4.14	11.92	1.80
2.750	2.70	5.833	77.04	8.917	4.14	12.00	1.80
2.833	2.70	5.917	77.04	9.000	4.14	12.08	1.80
2.917	2.70	6.000	77.04	9.083	4.14	12.17	1.80
3.000	2.70	6.083	77.04	9.167	4.14		
3.083	2.70	6.167	77.04	9.250	2.70		

 | CALIB |
 | STANDHYD (0220) | Area (ha)= 0.88

3.000	2.70	6.083	77.04	9.167	4.14
3.083	2.70	6.167	77.04	9.250	2.70

Max.Eff.Inten.(mm/hr)=	77.04	76.30
over (min)	5.00	5.00
Storage Coeff. (min)=	2.41 (ii)	3.94 (ii)
Unit Hyd. Tpeak (min)=	5.00	5.00
Unit Hyd. peak (cms)=	0.30	0.24

TOTALS

PEAK FLOW (cms)=	0.19	0.00	0.188 (iii)
TIME TO PEAK (hrs)=	6.17	6.17	6.17
RUNOFF VOLUME (mm)=	89.00	80.11	88.91
TOTAL RAINFALL (mm)=	90.00	90.00	90.00
RUNOFF COEFFICIENT =	0.99	0.89	0.99

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 98.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0039)	AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0220):	0.88	0.188	6.17	88.91
+ ID2= 2 (0221):	14.91	0.442	6.50	20.41
ID = 3 (0039):	15.79	0.490	6.50	24.23

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB	Area (ha)=	33.58	Curve Number (CN)=	58.0
NASHYD (0231)	Ia (mm)=	18.60	# of Linear Res.(N)=	3.00
ID= 1 DT= 5.0 min	U.H. Tp(hrs)=	0.31		

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.70	6.250	19.62	9.33	2.70
0.167	0.00	3.250	3.60	6.333	19.62	9.42	2.70

0.250	2.70	3.333	3.60	6.417	19.62	9.50	2.70
0.333	2.70	3.417	3.60	6.500	19.62	9.58	2.70
0.417	2.70	3.500	3.60	6.583	19.62	9.67	2.70
0.500	2.70	3.583	3.60	6.667	19.62	9.75	2.16
0.583	2.70	3.667	3.60	6.750	8.64	9.83	2.16
0.667	2.70	3.750	3.60	6.833	8.64	9.92	2.16
0.750	1.26	3.833	3.60	6.917	8.64	10.00	2.16
0.833	1.26	3.917	3.60	7.000	8.64	10.08	2.16
0.917	1.26	4.000	3.60	7.083	8.64	10.17	2.16
1.000	1.26	4.083	3.60	7.167	8.64	10.25	3.06
1.083	1.26	4.167	3.60	7.250	5.76	10.33	3.06
1.167	1.26	4.250	4.86	7.333	5.76	10.42	3.06
1.250	2.34	4.333	4.86	7.417	5.76	10.50	3.06
1.333	2.34	4.417	4.86	7.500	5.76	10.58	3.06
1.417	2.34	4.500	4.86	7.583	5.76	10.67	3.06
1.500	2.34	4.583	4.86	7.667	5.76	10.75	1.98
1.583	2.34	4.667	4.86	7.750	5.04	10.83	1.98
1.667	2.34	4.750	6.12	7.833	5.04	10.92	1.98
1.750	2.34	4.833	6.12	7.917	5.04	11.00	1.98
1.833	2.34	4.917	6.12	8.000	5.04	11.08	1.98
1.917	2.34	5.000	6.12	8.083	5.04	11.17	1.98
2.000	2.34	5.083	6.12	8.167	5.04	11.25	1.80
2.083	2.34	5.167	6.12	8.250	3.96	11.33	1.80
2.167	2.34	5.250	9.72	8.333	3.96	11.42	1.80
2.250	3.06	5.333	9.72	8.417	3.96	11.50	1.80
2.333	3.06	5.417	9.72	8.500	3.96	11.58	1.80
2.417	3.06	5.500	9.72	8.583	3.96	11.67	1.80
2.500	3.06	5.583	9.72	8.667	3.96	11.75	1.80
2.583	3.06	5.667	9.72	8.750	4.14	11.83	1.80
2.667	3.06	5.750	77.04	8.833	4.14	11.92	1.80
2.750	2.70	5.833	77.04	8.917	4.14	12.00	1.80
2.833	2.70	5.917	77.04	9.000	4.14	12.08	1.80
2.917	2.70	6.000	77.04	9.083	4.14	12.17	1.80
3.000	2.70	6.083	77.04	9.167	4.14		
3.083	2.70	6.167	77.04	9.250	2.70		

Unit Hyd Qpeak (cms)= 4.137

PEAK FLOW (cms)=	1.148 (i)
TIME TO PEAK (hrs)=	6.333
RUNOFF VOLUME (mm)=	19.959
TOTAL RAINFALL (mm)=	90.000
RUNOFF COEFFICIENT =	0.222

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	Area (ha)=	3.07
STANDHYD (0230)		

|ID= 1 DT= 5.0 min | Total Imp(%)= 42.00 Dir. Conn.(%)= 42.00

3.000 2.70 | 6.083 77.04 | 9.167 4.14 |
 3.083 2.70 | 6.167 77.04 | 9.250 2.70 |

IMPERVIOUS PERVIOUS (i)
 Surface Area (ha)= 1.29 1.78
 Dep. Storage (mm)= 1.00 5.00
 Average Slope (%)= 1.00 2.00
 Length (m)= 143.00 40.00
 Mannings n = 0.013 0.350

Max.Eff.Inten.(mm/hr)= 77.04 30.59
 over (min) 5.00 20.00
 Storage Coeff. (min)= 3.51 (ii) 17.39 (ii)
 Unit Hyd. Tpeak (min)= 5.00 20.00
 Unit Hyd. peak (cms)= 0.26 0.06

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

TOTALS
 PEAK FLOW (cms)= 0.28 0.10 0.361 (iii)
 TIME TO PEAK (hrs)= 6.17 6.33 6.17
 RUNOFF VOLUME (mm)= 89.00 30.02 54.79
 TOTAL RAINFALL (mm)= 90.00 90.00 90.00
 RUNOFF COEFFICIENT = 0.99 0.33 0.61

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.70	6.250	19.62	9.33	2.70
0.167	0.00	3.250	3.60	6.333	19.62	9.42	2.70
0.250	2.70	3.333	3.60	6.417	19.62	9.50	2.70
0.333	2.70	3.417	3.60	6.500	19.62	9.58	2.70
0.417	2.70	3.500	3.60	6.583	19.62	9.67	2.70
0.500	2.70	3.583	3.60	6.667	19.62	9.75	2.16
0.583	2.70	3.667	3.60	6.750	8.64	9.83	2.16
0.667	2.70	3.750	3.60	6.833	8.64	9.92	2.16
0.750	1.26	3.833	3.60	6.917	8.64	10.00	2.16
0.833	1.26	3.917	3.60	7.000	8.64	10.08	2.16
0.917	1.26	4.000	3.60	7.083	8.64	10.17	2.16
1.000	1.26	4.083	3.60	7.167	8.64	10.25	3.06
1.083	1.26	4.167	3.60	7.250	5.76	10.33	3.06
1.167	1.26	4.250	4.86	7.333	5.76	10.42	3.06
1.250	2.34	4.333	4.86	7.417	5.76	10.50	3.06
1.333	2.34	4.417	4.86	7.500	5.76	10.58	3.06
1.417	2.34	4.500	4.86	7.583	5.76	10.67	3.06
1.500	2.34	4.583	4.86	7.667	5.76	10.75	1.98
1.583	2.34	4.667	4.86	7.750	5.04	10.83	1.98
1.667	2.34	4.750	6.12	7.833	5.04	10.92	1.98
1.750	2.34	4.833	6.12	7.917	5.04	11.00	1.98
1.833	2.34	4.917	6.12	8.000	5.04	11.08	1.98
1.917	2.34	5.000	6.12	8.083	5.04	11.17	1.98
2.000	2.34	5.083	6.12	8.167	5.04	11.25	1.80
2.083	2.34	5.167	6.12	8.250	3.96	11.33	1.80
2.167	2.34	5.250	9.72	8.333	3.96	11.42	1.80
2.250	3.06	5.333	9.72	8.417	3.96	11.50	1.80
2.333	3.06	5.417	9.72	8.500	3.96	11.58	1.80
2.417	3.06	5.500	9.72	8.583	3.96	11.67	1.80
2.500	3.06	5.583	9.72	8.667	3.96	11.75	1.80
2.583	3.06	5.667	9.72	8.750	4.14	11.83	1.80
2.667	3.06	5.750	77.04	8.833	4.14	11.92	1.80
2.750	2.70	5.833	77.04	8.917	4.14	12.00	1.80
2.833	2.70	5.917	77.04	9.000	4.14	12.08	1.80
2.917	2.70	6.000	77.04	9.083	4.14	12.17	1.80

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
 CN* = 62.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
 THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ADD HYD (0042)				
1 + 2 = 3				

ID1= 1 (0230):	3.07	0.361	6.17	54.79
+ ID2= 2 (0231):	33.58	1.148	6.33	19.96
=====				
ID = 3 (0042):	36.65	1.331	6.33	22.88

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

	Area	(ha)	Curve Number	(CN)=
CALIB				
NASHYD (0241)	11.24		56.0	
ID= 1 DT= 5.0 min	22.20		# of Linear Res.(N)=	3.00

	U.H. Tp(hrs)=	0.41		

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.70	6.250	19.62	9.33	2.70
0.167	0.00	3.250	3.60	6.333	19.62	9.42	2.70

0.250	2.70	3.333	3.60	6.417	19.62	9.50	2.70
0.333	2.70	3.417	3.60	6.500	19.62	9.58	2.70
0.417	2.70	3.500	3.60	6.583	19.62	9.67	2.70
0.500	2.70	3.583	3.60	6.667	19.62	9.75	2.16
0.583	2.70	3.667	3.60	6.750	8.64	9.83	2.16
0.667	2.70	3.750	3.60	6.833	8.64	9.92	2.16
0.750	1.26	3.833	3.60	6.917	8.64	10.00	2.16
0.833	1.26	3.917	3.60	7.000	8.64	10.08	2.16
0.917	1.26	4.000	3.60	7.083	8.64	10.17	2.16
1.000	1.26	4.083	3.60	7.167	8.64	10.25	3.06
1.083	1.26	4.167	3.60	7.250	5.76	10.33	3.06
1.167	1.26	4.250	4.86	7.333	5.76	10.42	3.06
1.250	2.34	4.333	4.86	7.417	5.76	10.50	3.06
1.333	2.34	4.417	4.86	7.500	5.76	10.58	3.06
1.417	2.34	4.500	4.86	7.583	5.76	10.67	3.06
1.500	2.34	4.583	4.86	7.667	5.76	10.75	1.98
1.583	2.34	4.667	4.86	7.750	5.04	10.83	1.98
1.667	2.34	4.750	6.12	7.833	5.04	10.92	1.98
1.750	2.34	4.833	6.12	7.917	5.04	11.00	1.98
1.833	2.34	4.917	6.12	8.000	5.04	11.08	1.98
1.917	2.34	5.000	6.12	8.083	5.04	11.17	1.98
2.000	2.34	5.083	6.12	8.167	5.04	11.25	1.80
2.083	2.34	5.167	6.12	8.250	3.96	11.33	1.80
2.167	2.34	5.250	9.72	8.333	3.96	11.42	1.80
2.250	3.06	5.333	9.72	8.417	3.96	11.50	1.80
2.333	3.06	5.417	9.72	8.500	3.96	11.58	1.80
2.417	3.06	5.500	9.72	8.583	3.96	11.67	1.80
2.500	3.06	5.583	9.72	8.667	3.96	11.75	1.80
2.583	3.06	5.667	9.72	8.750	4.14	11.83	1.80
2.667	3.06	5.750	77.04	8.833	4.14	11.92	1.80
2.750	2.70	5.833	77.04	8.917	4.14	12.00	1.80
2.833	2.70	5.917	77.04	9.000	4.14	12.08	1.80
2.917	2.70	6.000	77.04	9.083	4.14	12.17	1.80
3.000	2.70	6.083	77.04	9.167	4.14		
3.083	2.70	6.167	77.04	9.250	2.70		

Unit Hyd Qpeak (cms)= 1.047

PEAK FLOW (cms)= 0.268 (i)
 TIME TO PEAK (hrs)= 6.583
 RUNOFF VOLUME (mm)= 17.191
 TOTAL RAINFALL (mm)= 90.000
 RUNOFF COEFFICIENT = 0.191

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

|ID= 1 DT= 5.0 min | Total Imp(%)= 37.00 Dir. Conn.(%)= 37.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.33	0.55
Dep. Storage	(mm)=	1.00	5.00
Average Slope	(%)=	1.00	2.00
Length	(m)=	76.58	40.00
Mannings n	=	0.013	0.350

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.70	6.250	19.62	9.33	2.70
0.167	0.00	3.250	3.60	6.333	19.62	9.42	2.70
0.250	2.70	3.333	3.60	6.417	19.62	9.50	2.70
0.333	2.70	3.417	3.60	6.500	19.62	9.58	2.70
0.417	2.70	3.500	3.60	6.583	19.62	9.67	2.70
0.500	2.70	3.583	3.60	6.667	19.62	9.75	2.16
0.583	2.70	3.667	3.60	6.750	8.64	9.83	2.16
0.667	2.70	3.750	3.60	6.833	8.64	9.92	2.16
0.750	1.26	3.833	3.60	6.917	8.64	10.00	2.16
0.833	1.26	3.917	3.60	7.000	8.64	10.08	2.16
0.917	1.26	4.000	3.60	7.083	8.64	10.17	2.16
1.000	1.26	4.083	3.60	7.167	8.64	10.25	3.06
1.083	1.26	4.167	3.60	7.250	5.76	10.33	3.06
1.167	1.26	4.250	4.86	7.333	5.76	10.42	3.06
1.250	2.34	4.333	4.86	7.417	5.76	10.50	3.06
1.333	2.34	4.417	4.86	7.500	5.76	10.58	3.06
1.417	2.34	4.500	4.86	7.583	5.76	10.67	3.06
1.500	2.34	4.583	4.86	7.667	5.76	10.75	1.98
1.583	2.34	4.667	4.86	7.750	5.04	10.83	1.98
1.667	2.34	4.750	6.12	7.833	5.04	10.92	1.98
1.750	2.34	4.833	6.12	7.917	5.04	11.00	1.98
1.833	2.34	4.917	6.12	8.000	5.04	11.08	1.98
1.917	2.34	5.000	6.12	8.083	5.04	11.17	1.98
2.000	2.34	5.083	6.12	8.167	5.04	11.25	1.80
2.083	2.34	5.167	6.12	8.250	3.96	11.33	1.80
2.167	2.34	5.250	9.72	8.333	3.96	11.42	1.80
2.250	3.06	5.333	9.72	8.417	3.96	11.50	1.80
2.333	3.06	5.417	9.72	8.500	3.96	11.58	1.80
2.417	3.06	5.500	9.72	8.583	3.96	11.67	1.80
2.500	3.06	5.583	9.72	8.667	3.96	11.75	1.80
2.583	3.06	5.667	9.72	8.750	4.14	11.83	1.80
2.667	3.06	5.750	77.04	8.833	4.14	11.92	1.80
2.750	2.70	5.833	77.04	8.917	4.14	12.00	1.80
2.833	2.70	5.917	77.04	9.000	4.14	12.08	1.80
2.917	2.70	6.000	77.04	9.083	4.14	12.17	1.80
3.000	2.70	6.083	77.04	9.167	4.14		
3.083	2.70	6.167	77.04	9.250	2.70		

 | CALIB |
 | STANDHYD (0240) | Area (ha)= 0.88

3.000	2.70	6.083	77.04	9.167	4.14
3.083	2.70	6.167	77.04	9.250	2.70

Max.Eff.Inten.(mm/hr)=	77.04	23.51
over (min)	5.00	20.00
Storage Coeff. (min)=	2.42 (ii)	17.83 (ii)
Unit Hyd. Tpeak (min)=	5.00	20.00
Unit Hyd. peak (cms)=	0.30	0.06

TOTALS

PEAK FLOW (cms)=	0.07	0.03	0.091 (iii)
TIME TO PEAK (hrs)=	6.17	6.33	6.17
RUNOFF VOLUME (mm)=	89.00	24.67	48.46
TOTAL RAINFALL (mm)=	90.00	90.00	90.00
RUNOFF COEFFICIENT =	0.99	0.27	0.54

0.250	2.70	3.333	3.60	6.417	19.62	9.50	2.70
0.333	2.70	3.417	3.60	6.500	19.62	9.58	2.70
0.417	2.70	3.500	3.60	6.583	19.62	9.67	2.70
0.500	2.70	3.583	3.60	6.667	19.62	9.75	2.16
0.583	2.70	3.667	3.60	6.750	8.64	9.83	2.16
0.667	2.70	3.750	3.60	6.833	8.64	9.92	2.16
0.750	1.26	3.833	3.60	6.917	8.64	10.00	2.16
0.833	1.26	3.917	3.60	7.000	8.64	10.08	2.16
0.917	1.26	4.000	3.60	7.083	8.64	10.17	2.16
1.000	1.26	4.083	3.60	7.167	8.64	10.25	3.06
1.083	1.26	4.167	3.60	7.250	5.76	10.33	3.06
1.167	1.26	4.250	4.86	7.333	5.76	10.42	3.06
1.250	2.34	4.333	4.86	7.417	5.76	10.50	3.06
1.333	2.34	4.417	4.86	7.500	5.76	10.58	3.06
1.417	2.34	4.500	4.86	7.583	5.76	10.67	3.06
1.500	2.34	4.583	4.86	7.667	5.76	10.75	1.98
1.583	2.34	4.667	4.86	7.750	5.04	10.83	1.98
1.667	2.34	4.750	6.12	7.833	5.04	10.92	1.98
1.750	2.34	4.833	6.12	7.917	5.04	11.00	1.98
1.833	2.34	4.917	6.12	8.000	5.04	11.08	1.98
1.917	2.34	5.000	6.12	8.083	5.04	11.17	1.98
2.000	2.34	5.083	6.12	8.167	5.04	11.25	1.80
2.083	2.34	5.167	6.12	8.250	3.96	11.33	1.80
2.167	2.34	5.250	9.72	8.333	3.96	11.42	1.80
2.250	3.06	5.333	9.72	8.417	3.96	11.50	1.80
2.333	3.06	5.417	9.72	8.500	3.96	11.58	1.80
2.417	3.06	5.500	9.72	8.583	3.96	11.67	1.80
2.500	3.06	5.583	9.72	8.667	3.96	11.75	1.80
2.583	3.06	5.667	9.72	8.750	4.14	11.83	1.80
2.667	3.06	5.750	77.04	8.833	4.14	11.92	1.80
2.750	2.70	5.833	77.04	8.917	4.14	12.00	1.80
2.833	2.70	5.917	77.04	9.000	4.14	12.08	1.80
2.917	2.70	6.000	77.04	9.083	4.14	12.17	1.80
3.000	2.70	6.083	77.04	9.167	4.14		
3.083	2.70	6.167	77.04	9.250	2.70		

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 55.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0045)	AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0240):	0.88	0.091	6.17	48.46
+ ID2= 2 (0241):	11.24	0.268	6.58	17.19
ID = 3 (0045):	12.12	0.307	6.50	19.46

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB	Area (ha)=	16.61	Curve Number (CN)=	51.0
NASHYD (0251)	Ia (mm)=	24.70	# of Linear Res.(N)=	3.00
ID= 1 DT= 5.0 min	U.H. Tp(hrs)=	0.51		

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.70	6.250	19.62	9.33	2.70
0.167	0.00	3.250	3.60	6.333	19.62	9.42	2.70

Unit Hyd Qpeak (cms)= 1.244

PEAK FLOW (cms)=	0.274 (i)
TIME TO PEAK (hrs)=	6.750
RUNOFF VOLUME (mm)=	13.784
TOTAL RAINFALL (mm)=	90.000
RUNOFF COEFFICIENT =	0.153

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	Area (ha)=	0.93
STANDHYD (0250)		

|ID= 1 DT= 5.0 min | Total Imp(%)= 26.00 Dir. Conn.(%)= 26.00

3.000 2.70 | 6.083 77.04 | 9.167 4.14 |
 3.083 2.70 | 6.167 77.04 | 9.250 2.70 |

IMPERVIOUS PERVIOUS (i)
 Surface Area (ha)= 0.24 0.69
 Dep. Storage (mm)= 1.00 5.00
 Average Slope (%)= 1.00 2.00
 Length (m)= 78.76 40.00
 Mannings n = 0.013 0.350

Max.Eff.Inten.(mm/hr)= 77.04 32.39
 over (min) 5.00 20.00
 Storage Coeff. (min)= 2.46 (ii) 16.02 (ii)
 Unit Hyd. Tpeak (min)= 5.00 20.00
 Unit Hyd. peak (cms)= 0.30 0.06

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

TOTALS
 PEAK FLOW (cms)= 0.05 0.04 0.088 (iii)
 TIME TO PEAK (hrs)= 6.17 6.33 6.17
 RUNOFF VOLUME (mm)= 89.00 31.71 46.59
 TOTAL RAINFALL (mm)= 90.00 90.00 90.00
 RUNOFF COEFFICIENT = 0.99 0.35 0.52

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.70	6.250	19.62	9.33	2.70
0.167	0.00	3.250	3.60	6.333	19.62	9.42	2.70
0.250	2.70	3.333	3.60	6.417	19.62	9.50	2.70
0.333	2.70	3.417	3.60	6.500	19.62	9.58	2.70
0.417	2.70	3.500	3.60	6.583	19.62	9.67	2.70
0.500	2.70	3.583	3.60	6.667	19.62	9.75	2.16
0.583	2.70	3.667	3.60	6.750	8.64	9.83	2.16
0.667	2.70	3.750	3.60	6.833	8.64	9.92	2.16
0.750	1.26	3.833	3.60	6.917	8.64	10.00	2.16
0.833	1.26	3.917	3.60	7.000	8.64	10.08	2.16
0.917	1.26	4.000	3.60	7.083	8.64	10.17	2.16
1.000	1.26	4.083	3.60	7.167	8.64	10.25	3.06
1.083	1.26	4.167	3.60	7.250	5.76	10.33	3.06
1.167	1.26	4.250	4.86	7.333	5.76	10.42	3.06
1.250	2.34	4.333	4.86	7.417	5.76	10.50	3.06
1.333	2.34	4.417	4.86	7.500	5.76	10.58	3.06
1.417	2.34	4.500	4.86	7.583	5.76	10.67	3.06
1.500	2.34	4.583	4.86	7.667	5.76	10.75	1.98
1.583	2.34	4.667	4.86	7.750	5.04	10.83	1.98
1.667	2.34	4.750	6.12	7.833	5.04	10.92	1.98
1.750	2.34	4.833	6.12	7.917	5.04	11.00	1.98
1.833	2.34	4.917	6.12	8.000	5.04	11.08	1.98
1.917	2.34	5.000	6.12	8.083	5.04	11.17	1.98
2.000	2.34	5.083	6.12	8.167	5.04	11.25	1.80
2.083	2.34	5.167	6.12	8.250	3.96	11.33	1.80
2.167	2.34	5.250	9.72	8.333	3.96	11.42	1.80
2.250	3.06	5.333	9.72	8.417	3.96	11.50	1.80
2.333	3.06	5.417	9.72	8.500	3.96	11.58	1.80
2.417	3.06	5.500	9.72	8.583	3.96	11.67	1.80
2.500	3.06	5.583	9.72	8.667	3.96	11.75	1.80
2.583	3.06	5.667	9.72	8.750	4.14	11.83	1.80
2.667	3.06	5.750	77.04	8.833	4.14	11.92	1.80
2.750	2.70	5.833	77.04	8.917	4.14	12.00	1.80
2.833	2.70	5.917	77.04	9.000	4.14	12.08	1.80
2.917	2.70	6.000	77.04	9.083	4.14	12.17	1.80

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
 CN* = 64.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
 THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ADD HYD (0048)				
1 + 2 = 3				
ID1= 1 (0250):	0.93	0.088	6.17	46.59
+ ID2= 2 (0251):	16.61	0.274	6.75	13.78
=====				
ID = 3 (0048):	17.54	0.312	6.67	15.52

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB				
NASHYD (0261)	Area (ha)=	35.85	Curve Number (CN)=	59.0
ID= 1 DT= 5.0 min	Ia (mm)=	18.50	# of Linear Res.(N)=	3.00
-----	U.H. Tp(hrs)=	1.24		

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.70	6.250	19.62	9.33	2.70
0.167	0.00	3.250	3.60	6.333	19.62	9.42	2.70

0.250	2.70	3.333	3.60	6.417	19.62	9.50	2.70
0.333	2.70	3.417	3.60	6.500	19.62	9.58	2.70
0.417	2.70	3.500	3.60	6.583	19.62	9.67	2.70
0.500	2.70	3.583	3.60	6.667	19.62	9.75	2.16
0.583	2.70	3.667	3.60	6.750	8.64	9.83	2.16
0.667	2.70	3.750	3.60	6.833	8.64	9.92	2.16
0.750	1.26	3.833	3.60	6.917	8.64	10.00	2.16
0.833	1.26	3.917	3.60	7.000	8.64	10.08	2.16
0.917	1.26	4.000	3.60	7.083	8.64	10.17	2.16
1.000	1.26	4.083	3.60	7.167	8.64	10.25	3.06
1.083	1.26	4.167	3.60	7.250	5.76	10.33	3.06
1.167	1.26	4.250	4.86	7.333	5.76	10.42	3.06
1.250	2.34	4.333	4.86	7.417	5.76	10.50	3.06
1.333	2.34	4.417	4.86	7.500	5.76	10.58	3.06
1.417	2.34	4.500	4.86	7.583	5.76	10.67	3.06
1.500	2.34	4.583	4.86	7.667	5.76	10.75	1.98
1.583	2.34	4.667	4.86	7.750	5.04	10.83	1.98
1.667	2.34	4.750	6.12	7.833	5.04	10.92	1.98
1.750	2.34	4.833	6.12	7.917	5.04	11.00	1.98
1.833	2.34	4.917	6.12	8.000	5.04	11.08	1.98
1.917	2.34	5.000	6.12	8.083	5.04	11.17	1.98
2.000	2.34	5.083	6.12	8.167	5.04	11.25	1.80
2.083	2.34	5.167	6.12	8.250	3.96	11.33	1.80
2.167	2.34	5.250	9.72	8.333	3.96	11.42	1.80
2.250	3.06	5.333	9.72	8.417	3.96	11.50	1.80
2.333	3.06	5.417	9.72	8.500	3.96	11.58	1.80
2.417	3.06	5.500	9.72	8.583	3.96	11.67	1.80
2.500	3.06	5.583	9.72	8.667	3.96	11.75	1.80
2.583	3.06	5.667	9.72	8.750	4.14	11.83	1.80
2.667	3.06	5.750	77.04	8.833	4.14	11.92	1.80
2.750	2.70	5.833	77.04	8.917	4.14	12.00	1.80
2.833	2.70	5.917	77.04	9.000	4.14	12.08	1.80
2.917	2.70	6.000	77.04	9.083	4.14	12.17	1.80
3.000	2.70	6.083	77.04	9.167	4.14		
3.083	2.70	6.167	77.04	9.250	2.70		

Unit Hyd Qpeak (cms)= 1.104

PEAK FLOW (cms)= 0.531 (i)
 TIME TO PEAK (hrs)= 7.583
 RUNOFF VOLUME (mm)= 20.613
 TOTAL RAINFALL (mm)= 90.000
 RUNOFF COEFFICIENT = 0.229

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

|ID= 1 DT= 5.0 min | Total Imp(%)= 27.00 Dir. Conn.(%)= 27.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.92	2.48
Dep. Storage (mm)=	1.00	5.00
Average Slope (%)=	1.00	2.00
Length (m)=	150.51	40.00
Mannings n =	0.013	0.350

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.70	6.250	19.62	9.33	2.70
0.167	0.00	3.250	3.60	6.333	19.62	9.42	2.70
0.250	2.70	3.333	3.60	6.417	19.62	9.50	2.70
0.333	2.70	3.417	3.60	6.500	19.62	9.58	2.70
0.417	2.70	3.500	3.60	6.583	19.62	9.67	2.70
0.500	2.70	3.583	3.60	6.667	19.62	9.75	2.16
0.583	2.70	3.667	3.60	6.750	8.64	9.83	2.16
0.667	2.70	3.750	3.60	6.833	8.64	9.92	2.16
0.750	1.26	3.833	3.60	6.917	8.64	10.00	2.16
0.833	1.26	3.917	3.60	7.000	8.64	10.08	2.16
0.917	1.26	4.000	3.60	7.083	8.64	10.17	2.16
1.000	1.26	4.083	3.60	7.167	8.64	10.25	3.06
1.083	1.26	4.167	3.60	7.250	5.76	10.33	3.06
1.167	1.26	4.250	4.86	7.333	5.76	10.42	3.06
1.250	2.34	4.333	4.86	7.417	5.76	10.50	3.06
1.333	2.34	4.417	4.86	7.500	5.76	10.58	3.06
1.417	2.34	4.500	4.86	7.583	5.76	10.67	3.06
1.500	2.34	4.583	4.86	7.667	5.76	10.75	1.98
1.583	2.34	4.667	4.86	7.750	5.04	10.83	1.98
1.667	2.34	4.750	6.12	7.833	5.04	10.92	1.98
1.750	2.34	4.833	6.12	7.917	5.04	11.00	1.98
1.833	2.34	4.917	6.12	8.000	5.04	11.08	1.98
1.917	2.34	5.000	6.12	8.083	5.04	11.17	1.98
2.000	2.34	5.083	6.12	8.167	5.04	11.25	1.80
2.083	2.34	5.167	6.12	8.250	3.96	11.33	1.80
2.167	2.34	5.250	9.72	8.333	3.96	11.42	1.80
2.250	3.06	5.333	9.72	8.417	3.96	11.50	1.80
2.333	3.06	5.417	9.72	8.500	3.96	11.58	1.80
2.417	3.06	5.500	9.72	8.583	3.96	11.67	1.80
2.500	3.06	5.583	9.72	8.667	3.96	11.75	1.80
2.583	3.06	5.667	9.72	8.750	4.14	11.83	1.80
2.667	3.06	5.750	77.04	8.833	4.14	11.92	1.80
2.750	2.70	5.833	77.04	8.917	4.14	12.00	1.80
2.833	2.70	5.917	77.04	9.000	4.14	12.08	1.80
2.917	2.70	6.000	77.04	9.083	4.14	12.17	1.80
3.000	2.70	6.083	77.04	9.167	4.14		
3.083	2.70	6.167	77.04	9.250	2.70		

 | CALIB |
 | STANDHYD (0260) | Area (ha)= 3.40

3.000	2.70	6.083	77.04	9.167	4.14
3.083	2.70	6.167	77.04	9.250	2.70

Max.Eff.Inten.(mm/hr)= 77.04 45.26
 over (min) 5.00 20.00
 Storage Coeff. (min)= 3.62 (ii) 15.48 (ii)
 Unit Hyd. Tpeak (min)= 5.00 20.00
 Unit Hyd. peak (cms)= 0.25 0.07

TOTALS

PEAK FLOW (cms)= 0.20 0.22 0.392 (iii)
 TIME TO PEAK (hrs)= 6.17 6.33 6.17
 RUNOFF VOLUME (mm)= 89.00 43.73 55.95
 TOTAL RAINFALL (mm)= 90.00 90.00 90.00
 RUNOFF COEFFICIENT = 0.99 0.49 0.62

0.250	2.70	3.333	3.60	6.417	19.62	9.50	2.70
0.333	2.70	3.417	3.60	6.500	19.62	9.58	2.70
0.417	2.70	3.500	3.60	6.583	19.62	9.67	2.70
0.500	2.70	3.583	3.60	6.667	19.62	9.75	2.16
0.583	2.70	3.667	3.60	6.750	8.64	9.83	2.16
0.667	2.70	3.750	3.60	6.833	8.64	9.92	2.16
0.750	1.26	3.833	3.60	6.917	8.64	10.00	2.16
0.833	1.26	3.917	3.60	7.000	8.64	10.08	2.16
0.917	1.26	4.000	3.60	7.083	8.64	10.17	2.16
1.000	1.26	4.083	3.60	7.167	8.64	10.25	3.06
1.083	1.26	4.167	3.60	7.250	5.76	10.33	3.06
1.167	1.26	4.250	4.86	7.333	5.76	10.42	3.06
1.250	2.34	4.333	4.86	7.417	5.76	10.50	3.06
1.333	2.34	4.417	4.86	7.500	5.76	10.58	3.06
1.417	2.34	4.500	4.86	7.583	5.76	10.67	3.06
1.500	2.34	4.583	4.86	7.667	5.76	10.75	1.98
1.583	2.34	4.667	4.86	7.750	5.04	10.83	1.98
1.667	2.34	4.750	6.12	7.833	5.04	10.92	1.98
1.750	2.34	4.833	6.12	7.917	5.04	11.00	1.98
1.833	2.34	4.917	6.12	8.000	5.04	11.08	1.98
1.917	2.34	5.000	6.12	8.083	5.04	11.17	1.98
2.000	2.34	5.083	6.12	8.167	5.04	11.25	1.80
2.083	2.34	5.167	6.12	8.250	3.96	11.33	1.80
2.167	2.34	5.250	9.72	8.333	3.96	11.42	1.80
2.250	3.06	5.333	9.72	8.417	3.96	11.50	1.80
2.333	3.06	5.417	9.72	8.500	3.96	11.58	1.80
2.417	3.06	5.500	9.72	8.583	3.96	11.67	1.80
2.500	3.06	5.583	9.72	8.667	3.96	11.75	1.80
2.583	3.06	5.667	9.72	8.750	4.14	11.83	1.80
2.667	3.06	5.750	77.04	8.833	4.14	11.92	1.80
2.750	2.70	5.833	77.04	8.917	4.14	12.00	1.80
2.833	2.70	5.917	77.04	9.000	4.14	12.08	1.80
2.917	2.70	6.000	77.04	9.083	4.14	12.17	1.80
3.000	2.70	6.083	77.04	9.167	4.14		
3.083	2.70	6.167	77.04	9.250	2.70		

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
 CN* = 76.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
 THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0051)	AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0260):	3.40	0.392	6.17	55.95
+ ID2= 2 (0261):	35.85	0.531	7.58	20.61
ID = 3 (0051):	39.25	0.584	7.50	23.67

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB	Area (ha)=	26.76	Curve Number (CN)=	59.0
NASHYD (0271)	Ia (mm)=	18.90	# of Linear Res.(N)=	3.00
ID= 1 DT= 5.0 min	U.H. Tp(hrs)=	0.23		

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.70	6.250	19.62	9.33	2.70
0.167	0.00	3.250	3.60	6.333	19.62	9.42	2.70

Unit Hyd Qpeak (cms)= 4.444

PEAK FLOW (cms)= 1.117 (i)
 TIME TO PEAK (hrs)= 6.250
 RUNOFF VOLUME (mm)= 20.394
 TOTAL RAINFALL (mm)= 90.000
 RUNOFF COEFFICIENT = 0.227

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	Area (ha)=	3.95
STANDHYD (0270)		

|ID= 1 DT= 5.0 min | Total Imp(%)= 31.00 Dir. Conn.(%)= 31.00

3.000 2.70 | 6.083 77.04 | 9.167 4.14 |
 3.083 2.70 | 6.167 77.04 | 9.250 2.70 |

IMPERVIOUS PERVIOUS (i)
 Surface Area (ha)= 1.22 2.73
 Dep. Storage (mm)= 1.00 5.00
 Average Slope (%)= 1.00 2.00
 Length (m)= 162.31 40.00
 Mannings n = 0.013 0.350

Max.Eff.Inten.(mm/hr)= 77.04 26.45
 over (min) 5.00 20.00
 Storage Coeff. (min)= 3.79 (ii) 18.49 (ii)
 Unit Hyd. Tpeak (min)= 5.00 20.00
 Unit Hyd. peak (cms)= 0.25 0.06

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

TOTALS
 PEAK FLOW (cms)= 0.26 0.13 0.370 (iii)
 TIME TO PEAK (hrs)= 6.17 6.33 6.17
 RUNOFF VOLUME (mm)= 89.00 26.12 45.61
 TOTAL RAINFALL (mm)= 90.00 90.00 90.00
 RUNOFF COEFFICIENT = 0.99 0.29 0.51

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.70	6.250	19.62	9.33	2.70
0.167	0.00	3.250	3.60	6.333	19.62	9.42	2.70
0.250	2.70	3.333	3.60	6.417	19.62	9.50	2.70
0.333	2.70	3.417	3.60	6.500	19.62	9.58	2.70
0.417	2.70	3.500	3.60	6.583	19.62	9.67	2.70
0.500	2.70	3.583	3.60	6.667	19.62	9.75	2.16
0.583	2.70	3.667	3.60	6.750	8.64	9.83	2.16
0.667	2.70	3.750	3.60	6.833	8.64	9.92	2.16
0.750	1.26	3.833	3.60	6.917	8.64	10.00	2.16
0.833	1.26	3.917	3.60	7.000	8.64	10.08	2.16
0.917	1.26	4.000	3.60	7.083	8.64	10.17	2.16
1.000	1.26	4.083	3.60	7.167	8.64	10.25	3.06
1.083	1.26	4.167	3.60	7.250	5.76	10.33	3.06
1.167	1.26	4.250	4.86	7.333	5.76	10.42	3.06
1.250	2.34	4.333	4.86	7.417	5.76	10.50	3.06
1.333	2.34	4.417	4.86	7.500	5.76	10.58	3.06
1.417	2.34	4.500	4.86	7.583	5.76	10.67	3.06
1.500	2.34	4.583	4.86	7.667	5.76	10.75	1.98
1.583	2.34	4.667	4.86	7.750	5.04	10.83	1.98
1.667	2.34	4.750	6.12	7.833	5.04	10.92	1.98
1.750	2.34	4.833	6.12	7.917	5.04	11.00	1.98
1.833	2.34	4.917	6.12	8.000	5.04	11.08	1.98
1.917	2.34	5.000	6.12	8.083	5.04	11.17	1.98
2.000	2.34	5.083	6.12	8.167	5.04	11.25	1.80
2.083	2.34	5.167	6.12	8.250	3.96	11.33	1.80
2.167	2.34	5.250	9.72	8.333	3.96	11.42	1.80
2.250	3.06	5.333	9.72	8.417	3.96	11.50	1.80
2.333	3.06	5.417	9.72	8.500	3.96	11.58	1.80
2.417	3.06	5.500	9.72	8.583	3.96	11.67	1.80
2.500	3.06	5.583	9.72	8.667	3.96	11.75	1.80
2.583	3.06	5.667	9.72	8.750	4.14	11.83	1.80
2.667	3.06	5.750	77.04	8.833	4.14	11.92	1.80
2.750	2.70	5.833	77.04	8.917	4.14	12.00	1.80
2.833	2.70	5.917	77.04	9.000	4.14	12.08	1.80
2.917	2.70	6.000	77.04	9.083	4.14	12.17	1.80

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
 CN* = 57.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
 THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ADD HYD (0054)				
1 + 2 = 3				

ID1= 1 (0270):	3.95	0.370	6.17	45.61
+ ID2= 2 (0271):	26.76	1.117	6.25	20.39
=====				
ID = 3 (0054):	30.71	1.371	6.17	23.64

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

	Area	(ha)=	Curve Number	(CN)=
CALIB				
NASHYD (0281)	6.71		67.0	
ID= 1 DT= 5.0 min	Ia	(mm)= 12.90	# of Linear Res.(N)= 3.00	
-----	U.H. Tp(hrs)=	0.43		

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.70	6.250	19.62	9.33	2.70
0.167	0.00	3.250	3.60	6.333	19.62	9.42	2.70

0.250	2.70	3.333	3.60	6.417	19.62	9.50	2.70
0.333	2.70	3.417	3.60	6.500	19.62	9.58	2.70
0.417	2.70	3.500	3.60	6.583	19.62	9.67	2.70
0.500	2.70	3.583	3.60	6.667	19.62	9.75	2.16
0.583	2.70	3.667	3.60	6.750	8.64	9.83	2.16
0.667	2.70	3.750	3.60	6.833	8.64	9.92	2.16
0.750	1.26	3.833	3.60	6.917	8.64	10.00	2.16
0.833	1.26	3.917	3.60	7.000	8.64	10.08	2.16
0.917	1.26	4.000	3.60	7.083	8.64	10.17	2.16
1.000	1.26	4.083	3.60	7.167	8.64	10.25	3.06
1.083	1.26	4.167	3.60	7.250	5.76	10.33	3.06
1.167	1.26	4.250	4.86	7.333	5.76	10.42	3.06
1.250	2.34	4.333	4.86	7.417	5.76	10.50	3.06
1.333	2.34	4.417	4.86	7.500	5.76	10.58	3.06
1.417	2.34	4.500	4.86	7.583	5.76	10.67	3.06
1.500	2.34	4.583	4.86	7.667	5.76	10.75	1.98
1.583	2.34	4.667	4.86	7.750	5.04	10.83	1.98
1.667	2.34	4.750	6.12	7.833	5.04	10.92	1.98
1.750	2.34	4.833	6.12	7.917	5.04	11.00	1.98
1.833	2.34	4.917	6.12	8.000	5.04	11.08	1.98
1.917	2.34	5.000	6.12	8.083	5.04	11.17	1.98
2.000	2.34	5.083	6.12	8.167	5.04	11.25	1.80
2.083	2.34	5.167	6.12	8.250	3.96	11.33	1.80
2.167	2.34	5.250	9.72	8.333	3.96	11.42	1.80
2.250	3.06	5.333	9.72	8.417	3.96	11.50	1.80
2.333	3.06	5.417	9.72	8.500	3.96	11.58	1.80
2.417	3.06	5.500	9.72	8.583	3.96	11.67	1.80
2.500	3.06	5.583	9.72	8.667	3.96	11.75	1.80
2.583	3.06	5.667	9.72	8.750	4.14	11.83	1.80
2.667	3.06	5.750	77.04	8.833	4.14	11.92	1.80
2.750	2.70	5.833	77.04	8.917	4.14	12.00	1.80
2.833	2.70	5.917	77.04	9.000	4.14	12.08	1.80
2.917	2.70	6.000	77.04	9.083	4.14	12.17	1.80
3.000	2.70	6.083	77.04	9.167	4.14		
3.083	2.70	6.167	77.04	9.250	2.70		

Unit Hyd Qpeak (cms)= 0.596

PEAK FLOW (cms)= 0.298 (i)
 TIME TO PEAK (hrs)= 6.500
 RUNOFF VOLUME (mm)= 29.395
 TOTAL RAINFALL (mm)= 90.000
 RUNOFF COEFFICIENT = 0.327

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

|ID= 1 DT= 5.0 min | Total Imp(%)= 51.00 Dir. Conn.(%)= 51.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.46	0.44
Dep. Storage	(mm)=	1.00	5.00
Average Slope	(%)=	1.00	2.00
Length	(m)=	77.64	40.00
Mannings n	=	0.013	0.350

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.70	6.250	19.62	9.33	2.70
0.167	0.00	3.250	3.60	6.333	19.62	9.42	2.70
0.250	2.70	3.333	3.60	6.417	19.62	9.50	2.70
0.333	2.70	3.417	3.60	6.500	19.62	9.58	2.70
0.417	2.70	3.500	3.60	6.583	19.62	9.67	2.70
0.500	2.70	3.583	3.60	6.667	19.62	9.75	2.16
0.583	2.70	3.667	3.60	6.750	8.64	9.83	2.16
0.667	2.70	3.750	3.60	6.833	8.64	9.92	2.16
0.750	1.26	3.833	3.60	6.917	8.64	10.00	2.16
0.833	1.26	3.917	3.60	7.000	8.64	10.08	2.16
0.917	1.26	4.000	3.60	7.083	8.64	10.17	2.16
1.000	1.26	4.083	3.60	7.167	8.64	10.25	3.06
1.083	1.26	4.167	3.60	7.250	5.76	10.33	3.06
1.167	1.26	4.250	4.86	7.333	5.76	10.42	3.06
1.250	2.34	4.333	4.86	7.417	5.76	10.50	3.06
1.333	2.34	4.417	4.86	7.500	5.76	10.58	3.06
1.417	2.34	4.500	4.86	7.583	5.76	10.67	3.06
1.500	2.34	4.583	4.86	7.667	5.76	10.75	1.98
1.583	2.34	4.667	4.86	7.750	5.04	10.83	1.98
1.667	2.34	4.750	6.12	7.833	5.04	10.92	1.98
1.750	2.34	4.833	6.12	7.917	5.04	11.00	1.98
1.833	2.34	4.917	6.12	8.000	5.04	11.08	1.98
1.917	2.34	5.000	6.12	8.083	5.04	11.17	1.98
2.000	2.34	5.083	6.12	8.167	5.04	11.25	1.80
2.083	2.34	5.167	6.12	8.250	3.96	11.33	1.80
2.167	2.34	5.250	9.72	8.333	3.96	11.42	1.80
2.250	3.06	5.333	9.72	8.417	3.96	11.50	1.80
2.333	3.06	5.417	9.72	8.500	3.96	11.58	1.80
2.417	3.06	5.500	9.72	8.583	3.96	11.67	1.80
2.500	3.06	5.583	9.72	8.667	3.96	11.75	1.80
2.583	3.06	5.667	9.72	8.750	4.14	11.83	1.80
2.667	3.06	5.750	77.04	8.833	4.14	11.92	1.80
2.750	2.70	5.833	77.04	8.917	4.14	12.00	1.80
2.833	2.70	5.917	77.04	9.000	4.14	12.08	1.80
2.917	2.70	6.000	77.04	9.083	4.14	12.17	1.80

 | CALIB |
 | STANDHYD (0280) | Area (ha)= 0.90

3.000	2.70	6.083	77.04	9.167	4.14
3.083	2.70	6.167	77.04	9.250	2.70

Max.Eff.Inten.(mm/hr)= 77.04 40.53
over (min) 5.00 15.00
Storage Coeff. (min)= 2.44 (ii) 14.83 (ii)
Unit Hyd. Tpeak (min)= 5.00 15.00
Unit Hyd. peak (cms)= 0.30 0.08

TOTALS

PEAK FLOW (cms)= 0.10 0.04 0.133 (iii)
TIME TO PEAK (hrs)= 6.17 6.25 6.17
RUNOFF VOLUME (mm)= 89.00 39.31 64.64
TOTAL RAINFALL (mm)= 90.00 90.00 90.00
RUNOFF COEFFICIENT = 0.99 0.44 0.72

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 72.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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-----
| ADD HYD ( 0057) |
| 1 + 2 = 3 |
-----
| AREA QPEAK TPEAK R.V. |
| (ha) (cms) (hrs) (mm) |
-----
ID1= 1 ( 0280): 0.90 0.133 6.17 64.64
+ ID2= 2 ( 0281): 6.71 0.298 6.50 29.40
=====
ID = 3 ( 0057): 7.61 0.348 6.42 33.56
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NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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| CALIB |
| NASHYD ( 0201) | Area (ha)= 30.53 Curve Number (CN)= 71.0
| ID= 1 DT= 5.0 min | Ia (mm)= 10.70 # of Linear Res.(N)= 3.00
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| U.H. Tp(hrs)= 0.78 |
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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.70	6.250	19.62	9.33	2.70
0.167	0.00	3.250	3.60	6.333	19.62	9.42	2.70

0.250	2.70	3.333	3.60	6.417	19.62	9.50	2.70
0.333	2.70	3.417	3.60	6.500	19.62	9.58	2.70
0.417	2.70	3.500	3.60	6.583	19.62	9.67	2.70
0.500	2.70	3.583	3.60	6.667	19.62	9.75	2.16
0.583	2.70	3.667	3.60	6.750	8.64	9.83	2.16
0.667	2.70	3.750	3.60	6.833	8.64	9.92	2.16
0.750	1.26	3.833	3.60	6.917	8.64	10.00	2.16
0.833	1.26	3.917	3.60	7.000	8.64	10.08	2.16
0.917	1.26	4.000	3.60	7.083	8.64	10.17	2.16
1.000	1.26	4.083	3.60	7.167	8.64	10.25	3.06
1.083	1.26	4.167	3.60	7.250	5.76	10.33	3.06
1.167	1.26	4.250	4.86	7.333	5.76	10.42	3.06
1.250	2.34	4.333	4.86	7.417	5.76	10.50	3.06
1.333	2.34	4.417	4.86	7.500	5.76	10.58	3.06
1.417	2.34	4.500	4.86	7.583	5.76	10.67	3.06
1.500	2.34	4.583	4.86	7.667	5.76	10.75	1.98
1.583	2.34	4.667	4.86	7.750	5.04	10.83	1.98
1.667	2.34	4.750	6.12	7.833	5.04	10.92	1.98
1.750	2.34	4.833	6.12	7.917	5.04	11.00	1.98
1.833	2.34	4.917	6.12	8.000	5.04	11.08	1.98
1.917	2.34	5.000	6.12	8.083	5.04	11.17	1.98
2.000	2.34	5.083	6.12	8.167	5.04	11.25	1.80
2.083	2.34	5.167	6.12	8.250	3.96	11.33	1.80
2.167	2.34	5.250	9.72	8.333	3.96	11.42	1.80
2.250	3.06	5.333	9.72	8.417	3.96	11.50	1.80
2.333	3.06	5.417	9.72	8.500	3.96	11.58	1.80
2.417	3.06	5.500	9.72	8.583	3.96	11.67	1.80
2.500	3.06	5.583	9.72	8.667	3.96	11.75	1.80
2.583	3.06	5.667	9.72	8.750	4.14	11.83	1.80
2.667	3.06	5.750	77.04	8.833	4.14	11.92	1.80
2.750	2.70	5.833	77.04	8.917	4.14	12.00	1.80
2.833	2.70	5.917	77.04	9.000	4.14	12.08	1.80
2.917	2.70	6.000	77.04	9.083	4.14	12.17	1.80
3.000	2.70	6.083	77.04	9.167	4.14		
3.083	2.70	6.167	77.04	9.250	2.70		

Unit Hyd Qpeak (cms)= 1.495

PEAK FLOW (cms)= 1.116 (i)
TIME TO PEAK (hrs)= 6.917
RUNOFF VOLUME (mm)= 34.354
TOTAL RAINFALL (mm)= 90.000
RUNOFF COEFFICIENT = 0.382

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| CALIB |
| STANDHYD ( 0200) | Area (ha)= 5.18
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|ID= 1 DT= 5.0 min | Total Imp(%)= 33.00 Dir. Conn.(%)= 33.00

3.000	2.70	6.083	77.04	9.167	4.14
3.083	2.70	6.167	77.04	9.250	2.70

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	1.71	3.47
Dep. Storage (mm)=	1.00	5.00
Average Slope (%)=	1.00	2.00
Length (m)=	185.83	40.00
Mannings n =	0.013	0.350

Max.Eff.Inten.(mm/hr)=	77.04	40.53
over (min)	5.00	20.00
Storage Coeff. (min)=	4.11 (ii)	16.51 (ii)
Unit Hyd. Tpeak (min)=	5.00	20.00
Unit Hyd. peak (cms)=	0.24	0.06

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

			TOTALS
PEAK FLOW (cms)=	0.37	0.27	0.600 (iii)
TIME TO PEAK (hrs)=	6.17	6.33	6.17
RUNOFF VOLUME (mm)=	89.00	39.31	55.71
TOTAL RAINFALL (mm)=	90.00	90.00	90.00
RUNOFF COEFFICIENT =	0.99	0.44	0.62

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.70	6.250	19.62	9.33	2.70
0.167	0.00	3.250	3.60	6.333	19.62	9.42	2.70
0.250	2.70	3.333	3.60	6.417	19.62	9.50	2.70
0.333	2.70	3.417	3.60	6.500	19.62	9.58	2.70
0.417	2.70	3.500	3.60	6.583	19.62	9.67	2.70
0.500	2.70	3.583	3.60	6.667	19.62	9.75	2.16
0.583	2.70	3.667	3.60	6.750	8.64	9.83	2.16
0.667	2.70	3.750	3.60	6.833	8.64	9.92	2.16
0.750	1.26	3.833	3.60	6.917	8.64	10.00	2.16
0.833	1.26	3.917	3.60	7.000	8.64	10.08	2.16
0.917	1.26	4.000	3.60	7.083	8.64	10.17	2.16
1.000	1.26	4.083	3.60	7.167	8.64	10.25	3.06
1.083	1.26	4.167	3.60	7.250	5.76	10.33	3.06
1.167	1.26	4.250	4.86	7.333	5.76	10.42	3.06
1.250	2.34	4.333	4.86	7.417	5.76	10.50	3.06
1.333	2.34	4.417	4.86	7.500	5.76	10.58	3.06
1.417	2.34	4.500	4.86	7.583	5.76	10.67	3.06
1.500	2.34	4.583	4.86	7.667	5.76	10.75	1.98
1.583	2.34	4.667	4.86	7.750	5.04	10.83	1.98
1.667	2.34	4.750	6.12	7.833	5.04	10.92	1.98
1.750	2.34	4.833	6.12	7.917	5.04	11.00	1.98
1.833	2.34	4.917	6.12	8.000	5.04	11.08	1.98
1.917	2.34	5.000	6.12	8.083	5.04	11.17	1.98
2.000	2.34	5.083	6.12	8.167	5.04	11.25	1.80
2.083	2.34	5.167	6.12	8.250	3.96	11.33	1.80
2.167	2.34	5.250	9.72	8.333	3.96	11.42	1.80
2.250	3.06	5.333	9.72	8.417	3.96	11.50	1.80
2.333	3.06	5.417	9.72	8.500	3.96	11.58	1.80
2.417	3.06	5.500	9.72	8.583	3.96	11.67	1.80
2.500	3.06	5.583	9.72	8.667	3.96	11.75	1.80
2.583	3.06	5.667	9.72	8.750	4.14	11.83	1.80
2.667	3.06	5.750	77.04	8.833	4.14	11.92	1.80
2.750	2.70	5.833	77.04	8.917	4.14	12.00	1.80
2.833	2.70	5.917	77.04	9.000	4.14	12.08	1.80
2.917	2.70	6.000	77.04	9.083	4.14	12.17	1.80

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 72.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ADD HYD (0033)				
1 + 2 = 3				
ID1= 1 (0200):	5.18	0.600	6.17	55.71
+ ID2= 2 (0201):	30.53	1.116	6.92	34.35
=====				
ID = 3 (0033):	35.71	1.292	6.67	37.45

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB				
NASHYD (0211)	Area (ha)=	2.02	Curve Number (CN)=	72.0
ID= 1 DT= 5.0 min	Ia (mm)=	10.50	# of Linear Res.(N)=	3.00
-----	U.H. Tp(hrs)=	0.16		

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.70	6.250	19.62	9.33	2.70
0.167	0.00	3.250	3.60	6.333	19.62	9.42	2.70

0.250	2.70	3.333	3.60	6.417	19.62	9.50	2.70
0.333	2.70	3.417	3.60	6.500	19.62	9.58	2.70
0.417	2.70	3.500	3.60	6.583	19.62	9.67	2.70
0.500	2.70	3.583	3.60	6.667	19.62	9.75	2.16
0.583	2.70	3.667	3.60	6.750	8.64	9.83	2.16
0.667	2.70	3.750	3.60	6.833	8.64	9.92	2.16
0.750	1.26	3.833	3.60	6.917	8.64	10.00	2.16
0.833	1.26	3.917	3.60	7.000	8.64	10.08	2.16
0.917	1.26	4.000	3.60	7.083	8.64	10.17	2.16
1.000	1.26	4.083	3.60	7.167	8.64	10.25	3.06
1.083	1.26	4.167	3.60	7.250	5.76	10.33	3.06
1.167	1.26	4.250	4.86	7.333	5.76	10.42	3.06
1.250	2.34	4.333	4.86	7.417	5.76	10.50	3.06
1.333	2.34	4.417	4.86	7.500	5.76	10.58	3.06
1.417	2.34	4.500	4.86	7.583	5.76	10.67	3.06
1.500	2.34	4.583	4.86	7.667	5.76	10.75	1.98
1.583	2.34	4.667	4.86	7.750	5.04	10.83	1.98
1.667	2.34	4.750	6.12	7.833	5.04	10.92	1.98
1.750	2.34	4.833	6.12	7.917	5.04	11.00	1.98
1.833	2.34	4.917	6.12	8.000	5.04	11.08	1.98
1.917	2.34	5.000	6.12	8.083	5.04	11.17	1.98
2.000	2.34	5.083	6.12	8.167	5.04	11.25	1.80
2.083	2.34	5.167	6.12	8.250	3.96	11.33	1.80
2.167	2.34	5.250	9.72	8.333	3.96	11.42	1.80
2.250	3.06	5.333	9.72	8.417	3.96	11.50	1.80
2.333	3.06	5.417	9.72	8.500	3.96	11.58	1.80
2.417	3.06	5.500	9.72	8.583	3.96	11.67	1.80
2.500	3.06	5.583	9.72	8.667	3.96	11.75	1.80
2.583	3.06	5.667	9.72	8.750	4.14	11.83	1.80
2.667	3.06	5.750	77.04	8.833	4.14	11.92	1.80
2.750	2.70	5.833	77.04	8.917	4.14	12.00	1.80
2.833	2.70	5.917	77.04	9.000	4.14	12.08	1.80
2.917	2.70	6.000	77.04	9.083	4.14	12.17	1.80
3.000	2.70	6.083	77.04	9.167	4.14		
3.083	2.70	6.167	77.04	9.250	2.70		

Unit Hyd Qpeak (cms)= 0.482

PEAK FLOW (cms)= 0.186 (i)
 TIME TO PEAK (hrs)= 6.167
 RUNOFF VOLUME (mm)= 35.292
 TOTAL RAINFALL (mm)= 90.000
 RUNOFF COEFFICIENT = 0.392

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

|ID= 1 DT= 5.0 min | Total Imp(%)= 30.00 Dir. Conn.(%)= 30.00

 IMPERVIOUS PERVIOUS (i)
 Surface Area (ha)= 0.17 0.40
 Dep. Storage (mm)= 1.00 5.00
 Average Slope (%)= 1.00 2.00
 Length (m)= 61.73 40.00
 Mannings n = 0.013 0.350

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.70	6.250	19.62	9.33	2.70
0.167	0.00	3.250	3.60	6.333	19.62	9.42	2.70
0.250	2.70	3.333	3.60	6.417	19.62	9.50	2.70
0.333	2.70	3.417	3.60	6.500	19.62	9.58	2.70
0.417	2.70	3.500	3.60	6.583	19.62	9.67	2.70
0.500	2.70	3.583	3.60	6.667	19.62	9.75	2.16
0.583	2.70	3.667	3.60	6.750	8.64	9.83	2.16
0.667	2.70	3.750	3.60	6.833	8.64	9.92	2.16
0.750	1.26	3.833	3.60	6.917	8.64	10.00	2.16
0.833	1.26	3.917	3.60	7.000	8.64	10.08	2.16
0.917	1.26	4.000	3.60	7.083	8.64	10.17	2.16
1.000	1.26	4.083	3.60	7.167	8.64	10.25	3.06
1.083	1.26	4.167	3.60	7.250	5.76	10.33	3.06
1.167	1.26	4.250	4.86	7.333	5.76	10.42	3.06
1.250	2.34	4.333	4.86	7.417	5.76	10.50	3.06
1.333	2.34	4.417	4.86	7.500	5.76	10.58	3.06
1.417	2.34	4.500	4.86	7.583	5.76	10.67	3.06
1.500	2.34	4.583	4.86	7.667	5.76	10.75	1.98
1.583	2.34	4.667	4.86	7.750	5.04	10.83	1.98
1.667	2.34	4.750	6.12	7.833	5.04	10.92	1.98
1.750	2.34	4.833	6.12	7.917	5.04	11.00	1.98
1.833	2.34	4.917	6.12	8.000	5.04	11.08	1.98
1.917	2.34	5.000	6.12	8.083	5.04	11.17	1.98
2.000	2.34	5.083	6.12	8.167	5.04	11.25	1.80
2.083	2.34	5.167	6.12	8.250	3.96	11.33	1.80
2.167	2.34	5.250	9.72	8.333	3.96	11.42	1.80
2.250	3.06	5.333	9.72	8.417	3.96	11.50	1.80
2.333	3.06	5.417	9.72	8.500	3.96	11.58	1.80
2.417	3.06	5.500	9.72	8.583	3.96	11.67	1.80
2.500	3.06	5.583	9.72	8.667	3.96	11.75	1.80
2.583	3.06	5.667	9.72	8.750	4.14	11.83	1.80
2.667	3.06	5.750	77.04	8.833	4.14	11.92	1.80
2.750	2.70	5.833	77.04	8.917	4.14	12.00	1.80
2.833	2.70	5.917	77.04	9.000	4.14	12.08	1.80
2.917	2.70	6.000	77.04	9.083	4.14	12.17	1.80
3.000	2.70	6.083	77.04	9.167	4.14		
3.083	2.70	6.167	77.04	9.250	2.70		

 | CALIB |
 | STANDHYD (0210) | Area (ha)= 0.57

3.000	2.70	6.083	77.04	9.167	4.14
3.083	2.70	6.167	77.04	9.250	2.70

Max.Eff.Inten.(mm/hr)= 77.04 37.29
 over (min) 5.00 15.00
 Storage Coeff. (min)= 2.12 (ii) 14.94 (ii)
 Unit Hyd. Tpeak (min)= 5.00 15.00
 Unit Hyd. peak (cms)= 0.31 0.08

TOTALS

PEAK FLOW (cms)= 0.04 0.03 0.065 (iii)
 TIME TO PEAK (hrs)= 6.08 6.25 6.17
 RUNOFF VOLUME (mm)= 89.00 36.29 52.09
 TOTAL RAINFALL (mm)= 90.00 90.00 90.00
 RUNOFF COEFFICIENT = 0.99 0.40 0.58

0.250	2.70	3.333	3.60	6.417	19.62	9.50	2.70
0.333	2.70	3.417	3.60	6.500	19.62	9.58	2.70
0.417	2.70	3.500	3.60	6.583	19.62	9.67	2.70
0.500	2.70	3.583	3.60	6.667	19.62	9.75	2.16
0.583	2.70	3.667	3.60	6.750	8.64	9.83	2.16
0.667	2.70	3.750	3.60	6.833	8.64	9.92	2.16
0.750	1.26	3.833	3.60	6.917	8.64	10.00	2.16
0.833	1.26	3.917	3.60	7.000	8.64	10.08	2.16
0.917	1.26	4.000	3.60	7.083	8.64	10.17	2.16
1.000	1.26	4.083	3.60	7.167	8.64	10.25	3.06
1.083	1.26	4.167	3.60	7.250	5.76	10.33	3.06
1.167	1.26	4.250	4.86	7.333	5.76	10.42	3.06
1.250	2.34	4.333	4.86	7.417	5.76	10.50	3.06
1.333	2.34	4.417	4.86	7.500	5.76	10.58	3.06
1.417	2.34	4.500	4.86	7.583	5.76	10.67	3.06
1.500	2.34	4.583	4.86	7.667	5.76	10.75	1.98
1.583	2.34	4.667	4.86	7.750	5.04	10.83	1.98
1.667	2.34	4.750	6.12	7.833	5.04	10.92	1.98
1.750	2.34	4.833	6.12	7.917	5.04	11.00	1.98
1.833	2.34	4.917	6.12	8.000	5.04	11.08	1.98
1.917	2.34	5.000	6.12	8.083	5.04	11.17	1.98
2.000	2.34	5.083	6.12	8.167	5.04	11.25	1.80
2.083	2.34	5.167	6.12	8.250	3.96	11.33	1.80
2.167	2.34	5.250	9.72	8.333	3.96	11.42	1.80
2.250	3.06	5.333	9.72	8.417	3.96	11.50	1.80
2.333	3.06	5.417	9.72	8.500	3.96	11.58	1.80
2.417	3.06	5.500	9.72	8.583	3.96	11.67	1.80
2.500	3.06	5.583	9.72	8.667	3.96	11.75	1.80
2.583	3.06	5.667	9.72	8.750	4.14	11.83	1.80
2.667	3.06	5.750	77.04	8.833	4.14	11.92	1.80
2.750	2.70	5.833	77.04	8.917	4.14	12.00	1.80
2.833	2.70	5.917	77.04	9.000	4.14	12.08	1.80
2.917	2.70	6.000	77.04	9.083	4.14	12.17	1.80
3.000	2.70	6.083	77.04	9.167	4.14		
3.083	2.70	6.167	77.04	9.250	2.70		

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0036)	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
1 + 2 = 3				
ID1= 1 (0210):	0.57	0.065	6.17	52.09
+ ID2= 2 (0211):	2.02	0.186	6.17	35.29
ID = 3 (0036):	2.59	0.251	6.17	38.99

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB	Area (ha)= 496.69	Curve Number (CN)= 74.0
NASHYD (0195)	Ia (mm)= 9.20	# of Linear Res.(N)= 3.00
ID= 1 DT= 5.0 min	U.H. Tp(hrs)= 4.78	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.70	6.250	19.62	9.33	2.70
0.167	0.00	3.250	3.60	6.333	19.62	9.42	2.70

Unit Hyd Qpeak (cms)= 3.969

PEAK FLOW (cms)= 5.265 (i)
 TIME TO PEAK (hrs)= 11.917
 RUNOFF VOLUME (mm)= 38.394
 TOTAL RAINFALL (mm)= 90.000
 RUNOFF COEFFICIENT = 0.427

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	Area (ha)= 65.48	Curve Number (CN)= 73.0
NASHYD (0196)		

|ID= 1 DT= 5.0 min | Ia (mm)= 9.60 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.56

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

```

----- TRANSFORMED HYETOGRAPH -----
  TIME RAIN | TIME RAIN | TIME RAIN | TIME RAIN
  hrs mm/hr | hrs mm/hr | hrs mm/hr | hrs mm/hr
0.083 0.00 | 3.167 2.70 | 6.250 19.62 | 9.33 2.70
0.167 0.00 | 3.250 3.60 | 6.333 19.62 | 9.42 2.70
0.250 2.70 | 3.333 3.60 | 6.417 19.62 | 9.50 2.70
0.333 2.70 | 3.417 3.60 | 6.500 19.62 | 9.58 2.70
0.417 2.70 | 3.500 3.60 | 6.583 19.62 | 9.67 2.70
0.500 2.70 | 3.583 3.60 | 6.667 19.62 | 9.75 2.16
0.583 2.70 | 3.667 3.60 | 6.750 8.64 | 9.83 2.16
0.667 2.70 | 3.750 3.60 | 6.833 8.64 | 9.92 2.16
0.750 1.26 | 3.833 3.60 | 6.917 8.64 | 10.00 2.16
0.833 1.26 | 3.917 3.60 | 7.000 8.64 | 10.08 2.16
0.917 1.26 | 4.000 3.60 | 7.083 8.64 | 10.17 2.16
1.000 1.26 | 4.083 3.60 | 7.167 8.64 | 10.25 3.06
1.083 1.26 | 4.167 3.60 | 7.250 5.76 | 10.33 3.06
1.167 1.26 | 4.250 4.86 | 7.333 5.76 | 10.42 3.06
1.250 2.34 | 4.333 4.86 | 7.417 5.76 | 10.50 3.06
1.333 2.34 | 4.417 4.86 | 7.500 5.76 | 10.58 3.06
1.417 2.34 | 4.500 4.86 | 7.583 5.76 | 10.67 3.06
1.500 2.34 | 4.583 4.86 | 7.667 5.76 | 10.75 1.98
1.583 2.34 | 4.667 4.86 | 7.750 5.04 | 10.83 1.98
1.667 2.34 | 4.750 6.12 | 7.833 5.04 | 10.92 1.98
1.750 2.34 | 4.833 6.12 | 7.917 5.04 | 11.00 1.98
1.833 2.34 | 4.917 6.12 | 8.000 5.04 | 11.08 1.98
1.917 2.34 | 5.000 6.12 | 8.083 5.04 | 11.17 1.98
2.000 2.34 | 5.083 6.12 | 8.167 5.04 | 11.25 1.80
2.083 2.34 | 5.167 6.12 | 8.250 3.96 | 11.33 1.80
2.167 2.34 | 5.250 9.72 | 8.333 3.96 | 11.42 1.80
2.250 3.06 | 5.333 9.72 | 8.417 3.96 | 11.50 1.80
2.333 3.06 | 5.417 9.72 | 8.500 3.96 | 11.58 1.80
2.417 3.06 | 5.500 9.72 | 8.583 3.96 | 11.67 1.80
2.500 3.06 | 5.583 9.72 | 8.667 3.96 | 11.75 1.80
2.583 3.06 | 5.667 9.72 | 8.750 4.14 | 11.83 1.80
2.667 3.06 | 5.750 77.04 | 8.833 4.14 | 11.92 1.80
2.750 2.70 | 5.833 77.04 | 8.917 4.14 | 12.00 1.80
2.833 2.70 | 5.917 77.04 | 9.000 4.14 | 12.08 1.80
2.917 2.70 | 6.000 77.04 | 9.083 4.14 | 12.17 1.80
3.000 2.70 | 6.083 77.04 | 9.167 4.14 |
3.083 2.70 | 6.167 77.04 | 9.250 2.70 |
  
```

Unit Hyd Qpeak (cms)= 4.466

PEAK FLOW (cms)= 3.223 (i)

TIME TO PEAK (hrs)= 6.667
 RUNOFF VOLUME (mm)= 37.076
 TOTAL RAINFALL (mm)= 90.000
 RUNOFF COEFFICIENT = 0.412

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```

-----
| ADD HYD ( 0059) |
| 1 + 2 = 3 |
-----
              AREA   QPEAK   TPEAK   R.V.
              (ha)   (cms)   (hrs)   (mm)
ID1= 1 ( 0195): 496.69 5.265 11.92 38.39
+ ID2= 2 ( 0196): 65.48 3.223 6.67 37.08
=====
ID = 3 ( 0059): 562.17 5.530 11.67 38.24
  
```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| ADD HYD ( 0059) |
| 3 + 2 = 1 |
-----
              AREA   QPEAK   TPEAK   R.V.
              (ha)   (cms)   (hrs)   (mm)
ID1= 3 ( 0059): 562.17 5.530 11.67 38.24
+ ID2= 2 ( 0033): 35.71 1.292 6.67 37.45
=====
ID = 1 ( 0059): 597.88 5.690 11.50 38.19
  
```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| ADD HYD ( 0059) |
| 1 + 2 = 3 |
-----
              AREA   QPEAK   TPEAK   R.V.
              (ha)   (cms)   (hrs)   (mm)
ID1= 1 ( 0059): 597.88 5.690 11.50 38.19
+ ID2= 2 ( 0036): 2.59 0.251 6.17 38.99
=====
ID = 3 ( 0059): 600.47 5.699 11.50 38.20
  
```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| CALIB |
| NASHYD ( 0194) | Area (ha)= 160.45 Curve Number (CN)= 74.0
|ID= 1 DT= 5.0 min | Ia (mm)= 9.10 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 1.95
  
```


NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

RUNOFF COEFFICIENT = 0.427

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.70	6.250	19.62	9.33	2.70
0.167	0.00	3.250	3.60	6.333	19.62	9.42	2.70
0.250	2.70	3.333	3.60	6.417	19.62	9.50	2.70
0.333	2.70	3.417	3.60	6.500	19.62	9.58	2.70
0.417	2.70	3.500	3.60	6.583	19.62	9.67	2.70
0.500	2.70	3.583	3.60	6.667	19.62	9.75	2.16
0.583	2.70	3.667	3.60	6.750	8.64	9.83	2.16
0.667	2.70	3.750	3.60	6.833	8.64	9.92	2.16
0.750	1.26	3.833	3.60	6.917	8.64	10.00	2.16
0.833	1.26	3.917	3.60	7.000	8.64	10.08	2.16
0.917	1.26	4.000	3.60	7.083	8.64	10.17	2.16
1.000	1.26	4.083	3.60	7.167	8.64	10.25	3.06
1.083	1.26	4.167	3.60	7.250	5.76	10.33	3.06
1.167	1.26	4.250	4.86	7.333	5.76	10.42	3.06
1.250	2.34	4.333	4.86	7.417	5.76	10.50	3.06
1.333	2.34	4.417	4.86	7.500	5.76	10.58	3.06
1.417	2.34	4.500	4.86	7.583	5.76	10.67	3.06
1.500	2.34	4.583	4.86	7.667	5.76	10.75	1.98
1.583	2.34	4.667	4.86	7.750	5.04	10.83	1.98
1.667	2.34	4.750	6.12	7.833	5.04	10.92	1.98
1.750	2.34	4.833	6.12	7.917	5.04	11.00	1.98
1.833	2.34	4.917	6.12	8.000	5.04	11.08	1.98
1.917	2.34	5.000	6.12	8.083	5.04	11.17	1.98
2.000	2.34	5.083	6.12	8.167	5.04	11.25	1.80
2.083	2.34	5.167	6.12	8.250	3.96	11.33	1.80
2.167	2.34	5.250	9.72	8.333	3.96	11.42	1.80
2.250	3.06	5.333	9.72	8.417	3.96	11.50	1.80
2.333	3.06	5.417	9.72	8.500	3.96	11.58	1.80
2.417	3.06	5.500	9.72	8.583	3.96	11.67	1.80
2.500	3.06	5.583	9.72	8.667	3.96	11.75	1.80
2.583	3.06	5.667	9.72	8.750	4.14	11.83	1.80
2.667	3.06	5.750	77.04	8.833	4.14	11.92	1.80
2.750	2.70	5.833	77.04	8.917	4.14	12.00	1.80
2.833	2.70	5.917	77.04	9.000	4.14	12.08	1.80
2.917	2.70	6.000	77.04	9.083	4.14	12.17	1.80
3.000	2.70	6.083	77.04	9.167	4.14		
3.083	2.70	6.167	77.04	9.250	2.70		

Unit Hyd Qpeak (cms)= 3.143

PEAK FLOW (cms)= 3.392 (i)

TIME TO PEAK (hrs)= 8.333

RUNOFF VOLUME (mm)= 38.466

TOTAL RAINFALL (mm)= 90.000

	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ADD HYD (0016)				
1 + 2 = 3				
ID1= 1 (0194):	160.45	3.392	8.33	38.47
+ ID2= 2 (0059):	600.47	5.699	11.50	38.20
=====				
ID = 3 (0016):	760.92	7.913	9.50	38.25

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

	Area	(ha)=	Curve Number	(CN)=
CALIB				
NASHYD (0193)	48.63		64.0	
ID= 1 DT= 5.0 min	Ia	(mm)= 16.40	# of Linear Res.(N)= 3.00	
-----	U.H. Tp(hrs)=	1.31		

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.70	6.250	19.62	9.33	2.70
0.167	0.00	3.250	3.60	6.333	19.62	9.42	2.70
0.250	2.70	3.333	3.60	6.417	19.62	9.50	2.70
0.333	2.70	3.417	3.60	6.500	19.62	9.58	2.70
0.417	2.70	3.500	3.60	6.583	19.62	9.67	2.70
0.500	2.70	3.583	3.60	6.667	19.62	9.75	2.16
0.583	2.70	3.667	3.60	6.750	8.64	9.83	2.16
0.667	2.70	3.750	3.60	6.833	8.64	9.92	2.16
0.750	1.26	3.833	3.60	6.917	8.64	10.00	2.16
0.833	1.26	3.917	3.60	7.000	8.64	10.08	2.16
0.917	1.26	4.000	3.60	7.083	8.64	10.17	2.16
1.000	1.26	4.083	3.60	7.167	8.64	10.25	3.06
1.083	1.26	4.167	3.60	7.250	5.76	10.33	3.06
1.167	1.26	4.250	4.86	7.333	5.76	10.42	3.06
1.250	2.34	4.333	4.86	7.417	5.76	10.50	3.06
1.333	2.34	4.417	4.86	7.500	5.76	10.58	3.06
1.417	2.34	4.500	4.86	7.583	5.76	10.67	3.06
1.500	2.34	4.583	4.86	7.667	5.76	10.75	1.98
1.583	2.34	4.667	4.86	7.750	5.04	10.83	1.98
1.667	2.34	4.750	6.12	7.833	5.04	10.92	1.98
1.750	2.34	4.833	6.12	7.917	5.04	11.00	1.98

1.833	2.34	4.917	6.12	8.000	5.04	11.08	1.98
1.917	2.34	5.000	6.12	8.083	5.04	11.17	1.98
2.000	2.34	5.083	6.12	8.167	5.04	11.25	1.80
2.083	2.34	5.167	6.12	8.250	3.96	11.33	1.80
2.167	2.34	5.250	9.72	8.333	3.96	11.42	1.80
2.250	3.06	5.333	9.72	8.417	3.96	11.50	1.80
2.333	3.06	5.417	9.72	8.500	3.96	11.58	1.80
2.417	3.06	5.500	9.72	8.583	3.96	11.67	1.80
2.500	3.06	5.583	9.72	8.667	3.96	11.75	1.80
2.583	3.06	5.667	9.72	8.750	4.14	11.83	1.80
2.667	3.06	5.750	77.04	8.833	4.14	11.92	1.80
2.750	2.70	5.833	77.04	8.917	4.14	12.00	1.80
2.833	2.70	5.917	77.04	9.000	4.14	12.08	1.80
2.917	2.70	6.000	77.04	9.083	4.14	12.17	1.80
3.000	2.70	6.083	77.04	9.167	4.14		
3.083	2.70	6.167	77.04	9.250	2.70		

Unit Hyd Qpeak (cms)= 1.418

PEAK FLOW (cms)= 0.859 (i)
 TIME TO PEAK (hrs)= 7.667
 RUNOFF VOLUME (mm)= 25.023
 TOTAL RAINFALL (mm)= 90.000
 RUNOFF COEFFICIENT = 0.278

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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-----
| ADD HYD ( 0060) |
| 1 + 2 = 3 |
-----

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	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0016):	760.92	7.913	9.50	38.25
+ ID2= 2 (0193):	48.63	0.859	7.67	25.02
=====				
ID = 3 (0060):	809.55	8.450	9.17	37.46

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| CALIB |
| NASHYD ( 0191) |
| ID= 1 DT= 5.0 min |
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Area (ha)	Curve Number (CN)	# of Linear Res. (N)	U.H. Tp (hrs)
147.11	67.0	3.00	1.83

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.70	6.250	19.62	9.33	2.70
0.167	0.00	3.250	3.60	6.333	19.62	9.42	2.70
0.250	2.70	3.333	3.60	6.417	19.62	9.50	2.70
0.333	2.70	3.417	3.60	6.500	19.62	9.58	2.70
0.417	2.70	3.500	3.60	6.583	19.62	9.67	2.70
0.500	2.70	3.583	3.60	6.667	19.62	9.75	2.16
0.583	2.70	3.667	3.60	6.750	8.64	9.83	2.16
0.667	2.70	3.750	3.60	6.833	8.64	9.92	2.16
0.750	1.26	3.833	3.60	6.917	8.64	10.00	2.16
0.833	1.26	3.917	3.60	7.000	8.64	10.08	2.16
0.917	1.26	4.000	3.60	7.083	8.64	10.17	2.16
1.000	1.26	4.083	3.60	7.167	8.64	10.25	3.06
1.083	1.26	4.167	3.60	7.250	5.76	10.33	3.06
1.167	1.26	4.250	4.86	7.333	5.76	10.42	3.06
1.250	2.34	4.333	4.86	7.417	5.76	10.50	3.06
1.333	2.34	4.417	4.86	7.500	5.76	10.58	3.06
1.417	2.34	4.500	4.86	7.583	5.76	10.67	3.06
1.500	2.34	4.583	4.86	7.667	5.76	10.75	1.98
1.583	2.34	4.667	4.86	7.750	5.04	10.83	1.98
1.667	2.34	4.750	6.12	7.833	5.04	10.92	1.98
1.750	2.34	4.833	6.12	7.917	5.04	11.00	1.98
1.833	2.34	4.917	6.12	8.000	5.04	11.08	1.98
1.917	2.34	5.000	6.12	8.083	5.04	11.17	1.98
2.000	2.34	5.083	6.12	8.167	5.04	11.25	1.80
2.083	2.34	5.167	6.12	8.250	3.96	11.33	1.80
2.167	2.34	5.250	9.72	8.333	3.96	11.42	1.80
2.250	3.06	5.333	9.72	8.417	3.96	11.50	1.80
2.333	3.06	5.417	9.72	8.500	3.96	11.58	1.80
2.417	3.06	5.500	9.72	8.583	3.96	11.67	1.80
2.500	3.06	5.583	9.72	8.667	3.96	11.75	1.80
2.583	3.06	5.667	9.72	8.750	4.14	11.83	1.80
2.667	3.06	5.750	77.04	8.833	4.14	11.92	1.80
2.750	2.70	5.833	77.04	8.917	4.14	12.00	1.80
2.833	2.70	5.917	77.04	9.000	4.14	12.08	1.80
2.917	2.70	6.000	77.04	9.083	4.14	12.17	1.80
3.000	2.70	6.083	77.04	9.167	4.14		
3.083	2.70	6.167	77.04	9.250	2.70		

Unit Hyd Qpeak (cms)= 3.070

PEAK FLOW (cms)= 2.407 (i)
 TIME TO PEAK (hrs)= 8.333
 RUNOFF VOLUME (mm)= 29.090
 TOTAL RAINFALL (mm)= 90.000
 RUNOFF COEFFICIENT = 0.323

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```

-----
| CALIB |
| STANDHYD ( 0190) | Area (ha)= 2.29
| ID= 1 DT= 5.0 min | Total Imp(%)= 46.00 Dir. Conn.(%)= 46.00
-----

```

2.667	3.06	5.750	77.04	8.833	4.14	11.92	1.80
2.750	2.70	5.833	77.04	8.917	4.14	12.00	1.80
2.833	2.70	5.917	77.04	9.000	4.14	12.08	1.80
2.917	2.70	6.000	77.04	9.083	4.14	12.17	1.80
3.000	2.70	6.083	77.04	9.167	4.14		
3.083	2.70	6.167	77.04	9.250	2.70		

```

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 1.05 1.24
Dep. Storage (mm)= 1.00 5.00
Average Slope (%)= 1.00 2.00
Length (m)= 123.53 40.00
Mannings n = 0.013 0.350

```

```

Max.Eff.Inten.(mm/hr)= 77.04 26.45
over (min) 5.00 20.00
Storage Coeff. (min)= 3.22 (ii) 17.92 (ii)
Unit Hyd. Tpeak (min)= 5.00 20.00
Unit Hyd. peak (cms)= 0.27 0.06

```

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

```

*TOTALS*
PEAK FLOW (cms)= 0.23 0.06 0.275 (iii)
TIME TO PEAK (hrs)= 6.17 6.33 6.17
RUNOFF VOLUME (mm)= 89.00 26.12 55.04
TOTAL RAINFALL (mm)= 90.00 90.00 90.00
RUNOFF COEFFICIENT = 0.99 0.29 0.61

```

```

----- TRANSFORMED HYETOGRAPH -----

```

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.70	6.250	19.62	9.33	2.70
0.167	0.00	3.250	3.60	6.333	19.62	9.42	2.70
0.250	2.70	3.333	3.60	6.417	19.62	9.50	2.70
0.333	2.70	3.417	3.60	6.500	19.62	9.58	2.70
0.417	2.70	3.500	3.60	6.583	19.62	9.67	2.70
0.500	2.70	3.583	3.60	6.667	19.62	9.75	2.16
0.583	2.70	3.667	3.60	6.750	8.64	9.83	2.16
0.667	2.70	3.750	3.60	6.833	8.64	9.92	2.16
0.750	1.26	3.833	3.60	6.917	8.64	10.00	2.16
0.833	1.26	3.917	3.60	7.000	8.64	10.08	2.16
0.917	1.26	4.000	3.60	7.083	8.64	10.17	2.16
1.000	1.26	4.083	3.60	7.167	8.64	10.25	3.06
1.083	1.26	4.167	3.60	7.250	5.76	10.33	3.06
1.167	1.26	4.250	4.86	7.333	5.76	10.42	3.06
1.250	2.34	4.333	4.86	7.417	5.76	10.50	3.06
1.333	2.34	4.417	4.86	7.500	5.76	10.58	3.06
1.417	2.34	4.500	4.86	7.583	5.76	10.67	3.06
1.500	2.34	4.583	4.86	7.667	5.76	10.75	1.98
1.583	2.34	4.667	4.86	7.750	5.04	10.83	1.98
1.667	2.34	4.750	6.12	7.833	5.04	10.92	1.98
1.750	2.34	4.833	6.12	7.917	5.04	11.00	1.98
1.833	2.34	4.917	6.12	8.000	5.04	11.08	1.98
1.917	2.34	5.000	6.12	8.083	5.04	11.17	1.98
2.000	2.34	5.083	6.12	8.167	5.04	11.25	1.80
2.083	2.34	5.167	6.12	8.250	3.96	11.33	1.80
2.167	2.34	5.250	9.72	8.333	3.96	11.42	1.80
2.250	3.06	5.333	9.72	8.417	3.96	11.50	1.80
2.333	3.06	5.417	9.72	8.500	3.96	11.58	1.80
2.417	3.06	5.500	9.72	8.583	3.96	11.67	1.80
2.500	3.06	5.583	9.72	8.667	3.96	11.75	1.80
2.583	3.06	5.667	9.72	8.750	4.14	11.83	1.80

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 57.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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-----
| ADD HYD ( 0030) |
| 1 + 2 = 3 |
-----

```

	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0190):	2.29	0.275	6.17	55.04
+ ID2= 2 (0191):	147.11	2.407	8.33	29.09
=====				
ID = 3 (0030):	149.40	2.428	8.33	29.49

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| CALIB |
| NASHYD ( 0192) | Area (ha)= 276.67 Curve Number (CN)= 67.0
| ID= 1 DT= 5.0 min | Ia (mm)= 9.40 # of Linear Res.(N)= 3.00
-----
U.H. Tp(hrs)= 4.85

```

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.70	6.250	19.62	9.33	2.70
0.167	0.00	3.250	3.60	6.333	19.62	9.42	2.70
0.250	2.70	3.333	3.60	6.417	19.62	9.50	2.70
0.333	2.70	3.417	3.60	6.500	19.62	9.58	2.70
0.417	2.70	3.500	3.60	6.583	19.62	9.67	2.70
0.500	2.70	3.583	3.60	6.667	19.62	9.75	2.16
0.583	2.70	3.667	3.60	6.750	8.64	9.83	2.16
0.667	2.70	3.750	3.60	6.833	8.64	9.92	2.16
0.750	1.26	3.833	3.60	6.917	8.64	10.00	2.16
0.833	1.26	3.917	3.60	7.000	8.64	10.08	2.16
0.917	1.26	4.000	3.60	7.083	8.64	10.17	2.16
1.000	1.26	4.083	3.60	7.167	8.64	10.25	3.06
1.083	1.26	4.167	3.60	7.250	5.76	10.33	3.06
1.167	1.26	4.250	4.86	7.333	5.76	10.42	3.06
1.250	2.34	4.333	4.86	7.417	5.76	10.50	3.06
1.333	2.34	4.417	4.86	7.500	5.76	10.58	3.06
1.417	2.34	4.500	4.86	7.583	5.76	10.67	3.06
1.500	2.34	4.583	4.86	7.667	5.76	10.75	1.98
1.583	2.34	4.667	4.86	7.750	5.04	10.83	1.98
1.667	2.34	4.750	6.12	7.833	5.04	10.92	1.98
1.750	2.34	4.833	6.12	7.917	5.04	11.00	1.98
1.833	2.34	4.917	6.12	8.000	5.04	11.08	1.98
1.917	2.34	5.000	6.12	8.083	5.04	11.17	1.98
2.000	2.34	5.083	6.12	8.167	5.04	11.25	1.80
2.083	2.34	5.167	6.12	8.250	3.96	11.33	1.80
2.167	2.34	5.250	9.72	8.333	3.96	11.42	1.80
2.250	3.06	5.333	9.72	8.417	3.96	11.50	1.80
2.333	3.06	5.417	9.72	8.500	3.96	11.58	1.80
2.417	3.06	5.500	9.72	8.583	3.96	11.67	1.80
2.500	3.06	5.583	9.72	8.667	3.96	11.75	1.80
2.583	3.06	5.667	9.72	8.750	4.14	11.83	1.80
2.667	3.06	5.750	77.04	8.833	4.14	11.92	1.80
2.750	2.70	5.833	77.04	8.917	4.14	12.00	1.80
2.833	2.70	5.917	77.04	9.000	4.14	12.08	1.80
2.917	2.70	6.000	77.04	9.083	4.14	12.17	1.80
3.000	2.70	6.083	77.04	9.167	4.14		
3.083	2.70	6.167	77.04	9.250	2.70		

Unit Hyd Qpeak (cms)= 2.179

PEAK FLOW (cms)= 2.377 (i)
 TIME TO PEAK (hrs)= 12.083
 RUNOFF VOLUME (mm)= 31.581
 TOTAL RAINFALL (mm)= 90.000
 RUNOFF COEFFICIENT = 0.351

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```

-----
| ADD HYD ( 0061) |
| 1 + 2 = 3 |
-----
ID1= 1 ( 0192): 276.67 2.377 12.08 31.58
+ ID2= 2 ( 0030): 149.40 2.428 8.33 29.49
-----
ID = 3 ( 0061): 426.07 3.887 9.42 30.85
-----
NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
-----

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V V I SSSSS U U A L (v 6.2.2006)
V V I SS U U AAA L
V V I SS U U AAAAA L
V V I SS U U A A L
VV I SSSSS UUUU A A LLLL

000 TTTT TTTT H H Y Y M M 000 TM
O O T T H H Y Y MM MM O O
O O T T H H Y M M O O
000 T T H H Y M M 000

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***** D E T A I L E D O U T P U T *****

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.2\VO2\voindat
 Output filename:
 C:\Users\caeh076182\AppData\Local\Civica\XH5\18e334db-11e6-4c2c-9e9b-68ade393f174\c
 e06a702-5e2f-40de-a54a-1f51377ec029\s
 Summary filename:
 C:\Users\caeh076182\AppData\Local\Civica\XH5\18e334db-11e6-4c2c-9e9b-68ade393f174\c
 e06a702-5e2f-40de-a54a-1f51377ec029\s

DATE: 12-14-2022 TIME: 02:56:54

USER:

COMMENTS: _____

 ** SIMULATION : 12SCS050 **

 | READ STORM | Filename: C:\Users\caeh076182\AppData
 | | ata\Local\Temp\
 | | 4057dc77-ff29-4e2b-baf3-03fff24407828\6a19ef7c
 | Ptotal= 99.60 mm | Comments: 12SCS050

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.17	0.00	3.33	3.98	6.50	21.71	9.67	2.99
0.33	2.99	3.50	3.98	6.67	21.71	9.83	2.39
0.50	2.99	3.67	3.98	6.83	9.56	10.00	2.39
0.67	2.99	3.83	3.98	7.00	9.56	10.17	2.39
0.83	1.39	4.00	3.98	7.17	9.56	10.33	3.39
1.00	1.39	4.17	3.98	7.33	6.37	10.50	3.39
1.17	1.39	4.33	5.38	7.50	6.37	10.67	3.39
1.33	2.59	4.50	5.38	7.67	6.37	10.83	2.19
1.50	2.59	4.67	5.38	7.83	5.58	11.00	2.19
1.67	2.59	4.83	6.77	8.00	5.58	11.17	2.19
1.83	2.59	5.00	6.77	8.17	5.58	11.33	1.99
2.00	2.59	5.17	6.77	8.33	4.38	11.50	1.99
2.17	2.59	5.33	10.76	8.50	4.38	11.67	1.99
2.33	3.39	5.50	10.76	8.67	4.38	11.83	1.99
2.50	3.39	5.67	10.76	8.83	4.58	12.00	1.99
2.67	3.39	5.83	85.26	9.00	4.58	12.17	1.99
2.83	2.99	6.00	85.26	9.17	4.58		
3.00	2.99	6.17	85.26	9.33	2.99		
3.17	2.99	6.33	21.71	9.50	2.99		

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.99	6.250	21.71	9.33	2.99
0.167	0.00	3.250	3.98	6.333	21.71	9.42	2.99
0.250	2.99	3.333	3.98	6.417	21.71	9.50	2.99
0.333	2.99	3.417	3.98	6.500	21.71	9.58	2.99
0.417	2.99	3.500	3.98	6.583	21.71	9.67	2.99
0.500	2.99	3.583	3.98	6.667	21.71	9.75	2.39
0.583	2.99	3.667	3.98	6.750	9.56	9.83	2.39
0.667	2.99	3.750	3.98	6.833	9.56	9.92	2.39
0.750	1.39	3.833	3.98	6.917	9.56	10.00	2.39
0.833	1.39	3.917	3.98	7.000	9.56	10.08	2.39
0.917	1.39	4.000	3.98	7.083	9.56	10.17	2.39
1.000	1.39	4.083	3.98	7.167	9.56	10.25	3.39
1.083	1.39	4.167	3.98	7.250	6.37	10.33	3.39
1.167	1.39	4.250	5.38	7.333	6.37	10.42	3.39
1.250	2.59	4.333	5.38	7.417	6.37	10.50	3.39
1.333	2.59	4.417	5.38	7.500	6.37	10.58	3.39
1.417	2.59	4.500	5.38	7.583	6.37	10.67	3.39
1.500	2.59	4.583	5.38	7.667	6.37	10.75	2.19
1.583	2.59	4.667	5.38	7.750	5.58	10.83	2.19
1.667	2.59	4.750	6.77	7.833	5.58	10.92	2.19
1.750	2.59	4.833	6.77	7.917	5.58	11.00	2.19
1.833	2.59	4.917	6.77	8.000	5.58	11.08	2.19
1.917	2.59	5.000	6.77	8.083	5.58	11.17	2.19
2.000	2.59	5.083	6.77	8.167	5.58	11.25	1.99
2.083	2.59	5.167	6.77	8.250	4.38	11.33	1.99
2.167	2.59	5.250	10.76	8.333	4.38	11.42	1.99
2.250	3.39	5.333	10.76	8.417	4.38	11.50	1.99
2.333	3.39	5.417	10.76	8.500	4.38	11.58	1.99
2.417	3.39	5.500	10.76	8.583	4.38	11.67	1.99
2.500	3.39	5.583	10.76	8.667	4.38	11.75	1.99
2.583	3.39	5.667	10.76	8.750	4.58	11.83	1.99
2.667	3.39	5.750	85.26	8.833	4.58	11.92	1.99
2.750	2.99	5.833	85.26	8.917	4.58	12.00	1.99
2.833	2.99	5.917	85.26	9.000	4.58	12.08	1.99
2.917	2.99	6.000	85.26	9.083	4.58	12.17	1.99
3.000	2.99	6.083	85.26	9.167	4.58		
3.083	2.99	6.167	85.26	9.250	2.99		

 | CALIB |
 | NASHYD (0101) | Area (ha)= 7.90 Curve Number (CN)= 62.0
 | ID= 1 DT= 5.0 min | Ia (mm)= 16.80 # of Linear Res.(N)= 3.00

 U.H. Tp(hrs)= 0.46

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

Unit Hyd Qpeak (cms)= 0.656

PEAK FLOW (cms)= 0.322 (i)
 TIME TO PEAK (hrs)= 6.583
 RUNOFF VOLUME (mm)= 28.746
 TOTAL RAINFALL (mm)= 99.600
 RUNOFF COEFFICIENT = 0.289

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```

-----
| CALIB |
| STANDHYD ( 0100) | Area (ha)= 0.91
| ID= 1 DT= 5.0 min | Total Imp(%)= 61.00 Dir. Conn.(%)= 61.00
-----

```

2.667	3.39	5.750	85.26	8.833	4.58	11.92	1.99
2.750	2.99	5.833	85.26	8.917	4.58	12.00	1.99
2.833	2.99	5.917	85.26	9.000	4.58	12.08	1.99
2.917	2.99	6.000	85.26	9.083	4.58	12.17	1.99
3.000	2.99	6.083	85.26	9.167	4.58		
3.083	2.99	6.167	85.26	9.250	2.99		

```

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 0.56 0.35
Dep. Storage (mm)= 1.00 5.00
Average Slope (%)= 1.00 2.00
Length (m)= 77.68 40.00
Mannings n = 0.013 0.360

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```

Max.Eff.Inten.(mm/hr)= 85.26 41.76
over (min) 5.00 15.00
Storage Coeff. (min)= 2.34 (ii) 14.80 (ii)
Unit Hyd. Tpeak (min)= 5.00 15.00
Unit Hyd. peak (cms)= 0.30 0.08

```

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

```

*TOTALS*
PEAK FLOW (cms)= 0.13 0.03 0.160 (iii)
TIME TO PEAK (hrs)= 6.17 6.25 6.17
RUNOFF VOLUME (mm)= 98.60 40.73 76.02
TOTAL RAINFALL (mm)= 99.60 99.60 99.60
RUNOFF COEFFICIENT = 0.99 0.41 0.76

```

```

----- TRANSFORMED HYETOGRAPH -----

```

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.99	6.250	21.71	9.33	2.99
0.167	0.00	3.250	3.98	6.333	21.71	9.42	2.99
0.250	2.99	3.333	3.98	6.417	21.71	9.50	2.99
0.333	2.99	3.417	3.98	6.500	21.71	9.58	2.99
0.417	2.99	3.500	3.98	6.583	21.71	9.67	2.99
0.500	2.99	3.583	3.98	6.667	21.71	9.75	2.39
0.583	2.99	3.667	3.98	6.750	9.56	9.83	2.39
0.667	2.99	3.750	3.98	6.833	9.56	9.92	2.39
0.750	1.39	3.833	3.98	6.917	9.56	10.00	2.39
0.833	1.39	3.917	3.98	7.000	9.56	10.08	2.39
0.917	1.39	4.000	3.98	7.083	9.56	10.17	2.39
1.000	1.39	4.083	3.98	7.167	9.56	10.25	3.39
1.083	1.39	4.167	3.98	7.250	6.37	10.33	3.39
1.167	1.39	4.250	5.38	7.333	6.37	10.42	3.39
1.250	2.59	4.333	5.38	7.417	6.37	10.50	3.39
1.333	2.59	4.417	5.38	7.500	6.37	10.58	3.39
1.417	2.59	4.500	5.38	7.583	6.37	10.67	3.39
1.500	2.59	4.583	5.38	7.667	6.37	10.75	2.19
1.583	2.59	4.667	5.38	7.750	5.58	10.83	2.19
1.667	2.59	4.750	6.77	7.833	5.58	10.92	2.19
1.750	2.59	4.833	6.77	7.917	5.58	11.00	2.19
1.833	2.59	4.917	6.77	8.000	5.58	11.08	2.19
1.917	2.59	5.000	6.77	8.083	5.58	11.17	2.19
2.000	2.59	5.083	6.77	8.167	5.58	11.25	1.99
2.083	2.59	5.167	6.77	8.250	4.38	11.33	1.99
2.167	2.59	5.250	10.76	8.333	4.38	11.42	1.99
2.250	3.39	5.333	10.76	8.417	4.38	11.50	1.99
2.333	3.39	5.417	10.76	8.500	4.38	11.58	1.99
2.417	3.39	5.500	10.76	8.583	4.38	11.67	1.99
2.500	3.39	5.583	10.76	8.667	4.38	11.75	1.99
2.583	3.39	5.667	10.76	8.750	4.58	11.83	1.99

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 67.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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-----
| ADD HYD ( 0003) |
| 1 + 2 = 3 |
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	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0100):	0.91	0.160	6.17	76.02
+ ID2= 2 (0101):	7.90	0.322	6.58	28.75
=====				
ID = 3 (0003):	8.81	0.375	6.50	33.63

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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| CALIB |
| NASHYD ( 0111) | Area (ha)= 5.33 Curve Number (CN)= 54.0
| ID= 1 DT= 5.0 min | Ia (mm)= 22.80 # of Linear Res.(N)= 3.00
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U.H. Tp(hrs)= 0.38

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.99	6.250	21.71	9.33	2.99
0.167	0.00	3.250	3.98	6.333	21.71	9.42	2.99
0.250	2.99	3.333	3.98	6.417	21.71	9.50	2.99
0.333	2.99	3.417	3.98	6.500	21.71	9.58	2.99
0.417	2.99	3.500	3.98	6.583	21.71	9.67	2.99
0.500	2.99	3.583	3.98	6.667	21.71	9.75	2.39
0.583	2.99	3.667	3.98	6.750	9.56	9.83	2.39
0.667	2.99	3.750	3.98	6.833	9.56	9.92	2.39
0.750	1.39	3.833	3.98	6.917	9.56	10.00	2.39
0.833	1.39	3.917	3.98	7.000	9.56	10.08	2.39
0.917	1.39	4.000	3.98	7.083	9.56	10.17	2.39
1.000	1.39	4.083	3.98	7.167	9.56	10.25	3.39
1.083	1.39	4.167	3.98	7.250	6.37	10.33	3.39
1.167	1.39	4.250	5.38	7.333	6.37	10.42	3.39
1.250	2.59	4.333	5.38	7.417	6.37	10.50	3.39
1.333	2.59	4.417	5.38	7.500	6.37	10.58	3.39
1.417	2.59	4.500	5.38	7.583	6.37	10.67	3.39
1.500	2.59	4.583	5.38	7.667	6.37	10.75	2.19
1.583	2.59	4.667	5.38	7.750	5.58	10.83	2.19
1.667	2.59	4.750	6.77	7.833	5.58	10.92	2.19
1.750	2.59	4.833	6.77	7.917	5.58	11.00	2.19
1.833	2.59	4.917	6.77	8.000	5.58	11.08	2.19
1.917	2.59	5.000	6.77	8.083	5.58	11.17	2.19
2.000	2.59	5.083	6.77	8.167	5.58	11.25	1.99
2.083	2.59	5.167	6.77	8.250	4.38	11.33	1.99
2.167	2.59	5.250	10.76	8.333	4.38	11.42	1.99
2.250	3.39	5.333	10.76	8.417	4.38	11.50	1.99
2.333	3.39	5.417	10.76	8.500	4.38	11.58	1.99
2.417	3.39	5.500	10.76	8.583	4.38	11.67	1.99
2.500	3.39	5.583	10.76	8.667	4.38	11.75	1.99
2.583	3.39	5.667	10.76	8.750	4.58	11.83	1.99
2.667	3.39	5.750	85.26	8.833	4.58	11.92	1.99
2.750	2.99	5.833	85.26	8.917	4.58	12.00	1.99
2.833	2.99	5.917	85.26	9.000	4.58	12.08	1.99
2.917	2.99	6.000	85.26	9.083	4.58	12.17	1.99
3.000	2.99	6.083	85.26	9.167	4.58		
3.083	2.99	6.167	85.26	9.250	2.99		

Unit Hyd Qpeak (cms)= 0.536

PEAK FLOW (cms)= 0.159 (i)
 TIME TO PEAK (hrs)= 6.500
 RUNOFF VOLUME (mm)= 20.116
 TOTAL RAINFALL (mm)= 99.600
 RUNOFF COEFFICIENT = 0.202

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| CALIB |
| STANDHYD ( 0110) | Area (ha)= 1.01
| ID= 1 DT= 5.0 min | Total Imp(%)= 30.00 Dir. Conn.(%)= 30.00
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                IMPERVIOUS    PERVIOUS (i)
Surface Area    (ha)=         0.30         0.71
Dep. Storage    (mm)=         1.00         5.00
Average Slope    (%)=         1.00         2.00
Length          (m)=        81.96        40.00
Mannings n      =          0.013        0.350

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.99	6.250	21.71	9.33	2.99
0.167	0.00	3.250	3.98	6.333	21.71	9.42	2.99
0.250	2.99	3.333	3.98	6.417	21.71	9.50	2.99
0.333	2.99	3.417	3.98	6.500	21.71	9.58	2.99
0.417	2.99	3.500	3.98	6.583	21.71	9.67	2.99
0.500	2.99	3.583	3.98	6.667	21.71	9.75	2.39
0.583	2.99	3.667	3.98	6.750	9.56	9.83	2.39
0.667	2.99	3.750	3.98	6.833	9.56	9.92	2.39
0.750	1.39	3.833	3.98	6.917	9.56	10.00	2.39
0.833	1.39	3.917	3.98	7.000	9.56	10.08	2.39
0.917	1.39	4.000	3.98	7.083	9.56	10.17	2.39
1.000	1.39	4.083	3.98	7.167	9.56	10.25	3.39
1.083	1.39	4.167	3.98	7.250	6.37	10.33	3.39
1.167	1.39	4.250	5.38	7.333	6.37	10.42	3.39
1.250	2.59	4.333	5.38	7.417	6.37	10.50	3.39
1.333	2.59	4.417	5.38	7.500	6.37	10.58	3.39
1.417	2.59	4.500	5.38	7.583	6.37	10.67	3.39
1.500	2.59	4.583	5.38	7.667	6.37	10.75	2.19
1.583	2.59	4.667	5.38	7.750	5.58	10.83	2.19
1.667	2.59	4.750	6.77	7.833	5.58	10.92	2.19
1.750	2.59	4.833	6.77	7.917	5.58	11.00	2.19
1.833	2.59	4.917	6.77	8.000	5.58	11.08	2.19
1.917	2.59	5.000	6.77	8.083	5.58	11.17	2.19
2.000	2.59	5.083	6.77	8.167	5.58	11.25	1.99
2.083	2.59	5.167	6.77	8.250	4.38	11.33	1.99
2.167	2.59	5.250	10.76	8.333	4.38	11.42	1.99
2.250	3.39	5.333	10.76	8.417	4.38	11.50	1.99
2.333	3.39	5.417	10.76	8.500	4.38	11.58	1.99
2.417	3.39	5.500	10.76	8.583	4.38	11.67	1.99
2.500	3.39	5.583	10.76	8.667	4.38	11.75	1.99
2.583	3.39	5.667	10.76	8.750	4.58	11.83	1.99

2.667	3.39	5.750	85.26	8.833	4.58	11.92	1.99
2.750	2.99	5.833	85.26	8.917	4.58	12.00	1.99
2.833	2.99	5.917	85.26	9.000	4.58	12.08	1.99
2.917	2.99	6.000	85.26	9.083	4.58	12.17	1.99
3.000	2.99	6.083	85.26	9.167	4.58		
3.083	2.99	6.167	85.26	9.250	2.99		

Max.Eff.Inten.(mm/hr)= 85.26 29.93
over (min) 5.00 20.00
Storage Coeff. (min)= 2.42 (ii) 16.41 (ii)
Unit Hyd. Tpeak (min)= 5.00 20.00
Unit Hyd. peak (cms)= 0.30 0.06

TOTALS

PEAK FLOW (cms)= 0.07 0.04 0.106 (iii)
TIME TO PEAK (hrs)= 6.17 6.33 6.17
RUNOFF VOLUME (mm)= 98.60 29.59 50.28
TOTAL RAINFALL (mm)= 99.60 99.60 99.60
RUNOFF COEFFICIENT = 0.99 0.30 0.50

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 55.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0006)	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0110):	1.01	0.106	6.17	50.28
+ ID2= 2 (0111):	5.33	0.159	6.50	20.12
ID = 3 (0006):	6.34	0.214	6.42	24.92

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB	Area (ha)	Curve Number (CN)	# of Linear Res.(N)
NASHYD (0121)	2.33	54.0	3.00
ID= 1 DT= 5.0 min	Ia (mm)= 22.80	U.H. Tp(hrs)= 0.67	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.99	6.250	21.71	9.33	2.99
0.167	0.00	3.250	3.98	6.333	21.71	9.42	2.99
0.250	2.99	3.333	3.98	6.417	21.71	9.50	2.99
0.333	2.99	3.417	3.98	6.500	21.71	9.58	2.99
0.417	2.99	3.500	3.98	6.583	21.71	9.67	2.99
0.500	2.99	3.583	3.98	6.667	21.71	9.75	2.39
0.583	2.99	3.667	3.98	6.750	9.56	9.83	2.39
0.667	2.99	3.750	3.98	6.833	9.56	9.92	2.39
0.750	1.39	3.833	3.98	6.917	9.56	10.00	2.39
0.833	1.39	3.917	3.98	7.000	9.56	10.08	2.39
0.917	1.39	4.000	3.98	7.083	9.56	10.17	2.39
1.000	1.39	4.083	3.98	7.167	9.56	10.25	3.39
1.083	1.39	4.167	3.98	7.250	6.37	10.33	3.39
1.167	1.39	4.250	5.38	7.333	6.37	10.42	3.39
1.250	2.59	4.333	5.38	7.417	6.37	10.50	3.39
1.333	2.59	4.417	5.38	7.500	6.37	10.58	3.39
1.417	2.59	4.500	5.38	7.583	6.37	10.67	3.39
1.500	2.59	4.583	5.38	7.667	6.37	10.75	2.19
1.583	2.59	4.667	5.38	7.750	5.58	10.83	2.19
1.667	2.59	4.750	6.77	7.833	5.58	10.92	2.19
1.750	2.59	4.833	6.77	7.917	5.58	11.00	2.19
1.833	2.59	4.917	6.77	8.000	5.58	11.08	2.19
1.917	2.59	5.000	6.77	8.083	5.58	11.17	2.19
2.000	2.59	5.083	6.77	8.167	5.58	11.25	1.99
2.083	2.59	5.167	6.77	8.250	4.38	11.33	1.99
2.167	2.59	5.250	10.76	8.333	4.38	11.42	1.99
2.250	3.39	5.333	10.76	8.417	4.38	11.50	1.99
2.333	3.39	5.417	10.76	8.500	4.38	11.58	1.99
2.417	3.39	5.500	10.76	8.583	4.38	11.67	1.99
2.500	3.39	5.583	10.76	8.667	4.38	11.75	1.99
2.583	3.39	5.667	10.76	8.750	4.58	11.83	1.99
2.667	3.39	5.750	85.26	8.833	4.58	11.92	1.99
2.750	2.99	5.833	85.26	8.917	4.58	12.00	1.99
2.833	2.99	5.917	85.26	9.000	4.58	12.08	1.99
2.917	2.99	6.000	85.26	9.083	4.58	12.17	1.99
3.000	2.99	6.083	85.26	9.167	4.58		
3.083	2.99	6.167	85.26	9.250	2.99		

Unit Hyd Qpeak (cms)= 0.133

PEAK FLOW (cms)= 0.050 (i)
TIME TO PEAK (hrs)= 6.917
RUNOFF VOLUME (mm)= 20.118
TOTAL RAINFALL (mm)= 99.600
RUNOFF COEFFICIENT = 0.202

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.


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| CALIB |
| STANDHYD ( 0120) | Area (ha)= 0.82
| ID= 1 DT= 5.0 min | Total Imp(%)= 32.00 Dir. Conn.(%)= 32.00
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2.667	3.39	5.750	85.26	8.833	4.58	11.92	1.99
2.750	2.99	5.833	85.26	8.917	4.58	12.00	1.99
2.833	2.99	5.917	85.26	9.000	4.58	12.08	1.99
2.917	2.99	6.000	85.26	9.083	4.58	12.17	1.99
3.000	2.99	6.083	85.26	9.167	4.58		
3.083	2.99	6.167	85.26	9.250	2.99		

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IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 0.26 0.56
Dep. Storage (mm)= 1.00 5.00
Average Slope (%)= 1.00 2.00
Length (m)= 73.80 40.00
Mannings n = 0.013 0.350

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Max.Eff.Inten.(mm/hr)= 85.26 29.93
over (min) 5.00 20.00
Storage Coeff. (min)= 2.27 (ii) 16.26 (ii)
Unit Hyd. Tpeak (min)= 5.00 20.00
Unit Hyd. peak (cms)= 0.30 0.06

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

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*TOTALS*
PEAK FLOW (cms)= 0.06 0.03 0.089 (iii)
TIME TO PEAK (hrs)= 6.08 6.33 6.17
RUNOFF VOLUME (mm)= 98.60 29.59 51.66
TOTAL RAINFALL (mm)= 99.60 99.60 99.60
RUNOFF COEFFICIENT = 0.99 0.30 0.52

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----- TRANSFORMED HYETOGRAPH -----

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TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.99	6.250	21.71	9.33	2.99
0.167	0.00	3.250	3.98	6.333	21.71	9.42	2.99
0.250	2.99	3.333	3.98	6.417	21.71	9.50	2.99
0.333	2.99	3.417	3.98	6.500	21.71	9.58	2.99
0.417	2.99	3.500	3.98	6.583	21.71	9.67	2.99
0.500	2.99	3.583	3.98	6.667	21.71	9.75	2.39
0.583	2.99	3.667	3.98	6.750	9.56	9.83	2.39
0.667	2.99	3.750	3.98	6.833	9.56	9.92	2.39
0.750	1.39	3.833	3.98	6.917	9.56	10.00	2.39
0.833	1.39	3.917	3.98	7.000	9.56	10.08	2.39
0.917	1.39	4.000	3.98	7.083	9.56	10.17	2.39
1.000	1.39	4.083	3.98	7.167	9.56	10.25	3.39
1.083	1.39	4.167	3.98	7.250	6.37	10.33	3.39
1.167	1.39	4.250	5.38	7.333	6.37	10.42	3.39
1.250	2.59	4.333	5.38	7.417	6.37	10.50	3.39
1.333	2.59	4.417	5.38	7.500	6.37	10.58	3.39
1.417	2.59	4.500	5.38	7.583	6.37	10.67	3.39
1.500	2.59	4.583	5.38	7.667	6.37	10.75	2.19
1.583	2.59	4.667	5.38	7.750	5.58	10.83	2.19
1.667	2.59	4.750	6.77	7.833	5.58	10.92	2.19
1.750	2.59	4.833	6.77	7.917	5.58	11.00	2.19
1.833	2.59	4.917	6.77	8.000	5.58	11.08	2.19
1.917	2.59	5.000	6.77	8.083	5.58	11.17	2.19
2.000	2.59	5.083	6.77	8.167	5.58	11.25	1.99
2.083	2.59	5.167	6.77	8.250	4.38	11.33	1.99
2.167	2.59	5.250	10.76	8.333	4.38	11.42	1.99
2.250	3.39	5.333	10.76	8.417	4.38	11.50	1.99
2.333	3.39	5.417	10.76	8.500	4.38	11.58	1.99
2.417	3.39	5.500	10.76	8.583	4.38	11.67	1.99
2.500	3.39	5.583	10.76	8.667	4.38	11.75	1.99
2.583	3.39	5.667	10.76	8.750	4.58	11.83	1.99

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 55.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| ADD HYD ( 0009) |
| 1 + 2 = 3 |
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	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0120):	0.82	0.089	6.17	51.66
+ ID2= 2 (0121):	2.33	0.050	6.92	20.12
=====				
ID = 3 (0009):	3.15	0.104	6.17	28.33

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| CALIB |
| NASHYD ( 0131) | Area (ha)= 10.63 Curve Number (CN)= 54.0
| ID= 1 DT= 5.0 min | Ia (mm)= 22.80 # of Linear Res.(N)= 3.00
-----
U.H. Tp(hrs)= 0.69

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.99	6.250	21.71	9.33	2.99
0.167	0.00	3.250	3.98	6.333	21.71	9.42	2.99
0.250	2.99	3.333	3.98	6.417	21.71	9.50	2.99
0.333	2.99	3.417	3.98	6.500	21.71	9.58	2.99
0.417	2.99	3.500	3.98	6.583	21.71	9.67	2.99
0.500	2.99	3.583	3.98	6.667	21.71	9.75	2.39
0.583	2.99	3.667	3.98	6.750	9.56	9.83	2.39
0.667	2.99	3.750	3.98	6.833	9.56	9.92	2.39
0.750	1.39	3.833	3.98	6.917	9.56	10.00	2.39
0.833	1.39	3.917	3.98	7.000	9.56	10.08	2.39
0.917	1.39	4.000	3.98	7.083	9.56	10.17	2.39
1.000	1.39	4.083	3.98	7.167	9.56	10.25	3.39
1.083	1.39	4.167	3.98	7.250	6.37	10.33	3.39
1.167	1.39	4.250	5.38	7.333	6.37	10.42	3.39
1.250	2.59	4.333	5.38	7.417	6.37	10.50	3.39
1.333	2.59	4.417	5.38	7.500	6.37	10.58	3.39
1.417	2.59	4.500	5.38	7.583	6.37	10.67	3.39
1.500	2.59	4.583	5.38	7.667	6.37	10.75	2.19
1.583	2.59	4.667	5.38	7.750	5.58	10.83	2.19
1.667	2.59	4.750	6.77	7.833	5.58	10.92	2.19
1.750	2.59	4.833	6.77	7.917	5.58	11.00	2.19
1.833	2.59	4.917	6.77	8.000	5.58	11.08	2.19
1.917	2.59	5.000	6.77	8.083	5.58	11.17	2.19
2.000	2.59	5.083	6.77	8.167	5.58	11.25	1.99
2.083	2.59	5.167	6.77	8.250	4.38	11.33	1.99
2.167	2.59	5.250	10.76	8.333	4.38	11.42	1.99
2.250	3.39	5.333	10.76	8.417	4.38	11.50	1.99
2.333	3.39	5.417	10.76	8.500	4.38	11.58	1.99
2.417	3.39	5.500	10.76	8.583	4.38	11.67	1.99
2.500	3.39	5.583	10.76	8.667	4.38	11.75	1.99
2.583	3.39	5.667	10.76	8.750	4.58	11.83	1.99
2.667	3.39	5.750	85.26	8.833	4.58	11.92	1.99
2.750	2.99	5.833	85.26	8.917	4.58	12.00	1.99
2.833	2.99	5.917	85.26	9.000	4.58	12.08	1.99
2.917	2.99	6.000	85.26	9.083	4.58	12.17	1.99
3.000	2.99	6.083	85.26	9.167	4.58		
3.083	2.99	6.167	85.26	9.250	2.99		

Unit Hyd Qpeak (cms)= 0.588

PEAK FLOW (cms)= 0.225 (i)
 TIME TO PEAK (hrs)= 6.917
 RUNOFF VOLUME (mm)= 20.118
 TOTAL RAINFALL (mm)= 99.600
 RUNOFF COEFFICIENT = 0.202

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB			
STANDHYD (0130)		Area (ha)=	1.57
ID= 1 DT= 5.0 min		Total Imp(%)=	34.00 Dir. Conn.(%)= 34.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.53	1.04
Dep. Storage (mm)=	1.00	5.00
Average Slope (%)=	1.00	2.00
Length (m)=	102.35	40.00
Mannings n =	0.013	0.350

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.99	6.250	21.71	9.33	2.99
0.167	0.00	3.250	3.98	6.333	21.71	9.42	2.99
0.250	2.99	3.333	3.98	6.417	21.71	9.50	2.99
0.333	2.99	3.417	3.98	6.500	21.71	9.58	2.99
0.417	2.99	3.500	3.98	6.583	21.71	9.67	2.99
0.500	2.99	3.583	3.98	6.667	21.71	9.75	2.39
0.583	2.99	3.667	3.98	6.750	9.56	9.83	2.39
0.667	2.99	3.750	3.98	6.833	9.56	9.92	2.39
0.750	1.39	3.833	3.98	6.917	9.56	10.00	2.39
0.833	1.39	3.917	3.98	7.000	9.56	10.08	2.39
0.917	1.39	4.000	3.98	7.083	9.56	10.17	2.39
1.000	1.39	4.083	3.98	7.167	9.56	10.25	3.39
1.083	1.39	4.167	3.98	7.250	6.37	10.33	3.39
1.167	1.39	4.250	5.38	7.333	6.37	10.42	3.39
1.250	2.59	4.333	5.38	7.417	6.37	10.50	3.39
1.333	2.59	4.417	5.38	7.500	6.37	10.58	3.39
1.417	2.59	4.500	5.38	7.583	6.37	10.67	3.39
1.500	2.59	4.583	5.38	7.667	6.37	10.75	2.19
1.583	2.59	4.667	5.38	7.750	5.58	10.83	2.19
1.667	2.59	4.750	6.77	7.833	5.58	10.92	2.19
1.750	2.59	4.833	6.77	7.917	5.58	11.00	2.19
1.833	2.59	4.917	6.77	8.000	5.58	11.08	2.19
1.917	2.59	5.000	6.77	8.083	5.58	11.17	2.19
2.000	2.59	5.083	6.77	8.167	5.58	11.25	1.99
2.083	2.59	5.167	6.77	8.250	4.38	11.33	1.99
2.167	2.59	5.250	10.76	8.333	4.38	11.42	1.99
2.250	3.39	5.333	10.76	8.417	4.38	11.50	1.99
2.333	3.39	5.417	10.76	8.500	4.38	11.58	1.99
2.417	3.39	5.500	10.76	8.583	4.38	11.67	1.99
2.500	3.39	5.583	10.76	8.667	4.38	11.75	1.99
2.583	3.39	5.667	10.76	8.750	4.58	11.83	1.99
2.667	3.39	5.750	85.26	8.833	4.58	11.92	1.99
2.750	2.99	5.833	85.26	8.917	4.58	12.00	1.99
2.833	2.99	5.917	85.26	9.000	4.58	12.08	1.99
2.917	2.99	6.000	85.26	9.083	4.58	12.17	1.99
3.000	2.99	6.083	85.26	9.167	4.58		
3.083	2.99	6.167	85.26	9.250	2.99		

2.667	3.39	5.750	85.26	8.833	4.58	11.92	1.99
2.750	2.99	5.833	85.26	8.917	4.58	12.00	1.99
2.833	2.99	5.917	85.26	9.000	4.58	12.08	1.99
2.917	2.99	6.000	85.26	9.083	4.58	12.17	1.99
3.000	2.99	6.083	85.26	9.167	4.58		
3.083	2.99	6.167	85.26	9.250	2.99		

Max.Eff.Inten.(mm/hr)= 85.26 29.93
over (min) 5.00 20.00
Storage Coeff. (min)= 2.76 (ii) 16.75 (ii)
Unit Hyd. Tpeak (min)= 5.00 20.00
Unit Hyd. peak (cms)= 0.28 0.06

TOTALS

PEAK FLOW (cms)= 0.13 0.06 0.176 (iii)
TIME TO PEAK (hrs)= 6.17 6.33 6.17
RUNOFF VOLUME (mm)= 98.60 29.59 53.05
TOTAL RAINFALL (mm)= 99.60 99.60 99.60
RUNOFF COEFFICIENT = 0.99 0.30 0.53

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 55.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0012)	AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0130):	1.57	0.176	6.17	53.05
+ ID2= 2 (0131):	10.63	0.225	6.92	20.12
ID = 3 (0012):	12.20	0.276	6.67	24.36

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB	Area	(ha)	Curve Number	(CN)=
NASHYD (0141)	7.22		65.0	
ID= 1 DT= 5.0 min	Ia	(mm)=	# of Linear Res.(N)=	3.00
	U.H. Tp	(hrs)=		0.54

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.99	6.250	21.71	9.33	2.99
0.167	0.00	3.250	3.98	6.333	21.71	9.42	2.99
0.250	2.99	3.333	3.98	6.417	21.71	9.50	2.99
0.333	2.99	3.417	3.98	6.500	21.71	9.58	2.99
0.417	2.99	3.500	3.98	6.583	21.71	9.67	2.99
0.500	2.99	3.583	3.98	6.667	21.71	9.75	2.39
0.583	2.99	3.667	3.98	6.750	9.56	9.83	2.39
0.667	2.99	3.750	3.98	6.833	9.56	9.92	2.39
0.750	1.39	3.833	3.98	6.917	9.56	10.00	2.39
0.833	1.39	3.917	3.98	7.000	9.56	10.08	2.39
0.917	1.39	4.000	3.98	7.083	9.56	10.17	2.39
1.000	1.39	4.083	3.98	7.167	9.56	10.25	3.39
1.083	1.39	4.167	3.98	7.250	6.37	10.33	3.39
1.167	1.39	4.250	5.38	7.333	6.37	10.42	3.39
1.250	2.59	4.333	5.38	7.417	6.37	10.50	3.39
1.333	2.59	4.417	5.38	7.500	6.37	10.58	3.39
1.417	2.59	4.500	5.38	7.583	6.37	10.67	3.39
1.500	2.59	4.583	5.38	7.667	6.37	10.75	2.19
1.583	2.59	4.667	5.38	7.750	5.58	10.83	2.19
1.667	2.59	4.750	6.77	7.833	5.58	10.92	2.19
1.750	2.59	4.833	6.77	7.917	5.58	11.00	2.19
1.833	2.59	4.917	6.77	8.000	5.58	11.08	2.19
1.917	2.59	5.000	6.77	8.083	5.58	11.17	2.19
2.000	2.59	5.083	6.77	8.167	5.58	11.25	1.99
2.083	2.59	5.167	6.77	8.250	4.38	11.33	1.99
2.167	2.59	5.250	10.76	8.333	4.38	11.42	1.99
2.250	3.39	5.333	10.76	8.417	4.38	11.50	1.99
2.333	3.39	5.417	10.76	8.500	4.38	11.58	1.99
2.417	3.39	5.500	10.76	8.583	4.38	11.67	1.99
2.500	3.39	5.583	10.76	8.667	4.38	11.75	1.99
2.583	3.39	5.667	10.76	8.750	4.58	11.83	1.99
2.667	3.39	5.750	85.26	8.833	4.58	11.92	1.99
2.750	2.99	5.833	85.26	8.917	4.58	12.00	1.99
2.833	2.99	5.917	85.26	9.000	4.58	12.08	1.99
2.917	2.99	6.000	85.26	9.083	4.58	12.17	1.99
3.000	2.99	6.083	85.26	9.167	4.58		
3.083	2.99	6.167	85.26	9.250	2.99		

Unit Hyd Qpeak (cms)= 0.511

PEAK FLOW (cms)= 0.310 (i)
TIME TO PEAK (hrs)= 6.667
RUNOFF VOLUME (mm)= 32.578
TOTAL RAINFALL (mm)= 99.600
RUNOFF COEFFICIENT = 0.327

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| CALIB |
| STANDHYD ( 0140) | Area (ha)= 0.76
| ID= 1 DT= 5.0 min | Total Imp(%)= 26.00 Dir. Conn.(%)= 26.00
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2.667	3.39	5.750	85.26	8.833	4.58	11.92	1.99
2.750	2.99	5.833	85.26	8.917	4.58	12.00	1.99
2.833	2.99	5.917	85.26	9.000	4.58	12.08	1.99
2.917	2.99	6.000	85.26	9.083	4.58	12.17	1.99
3.000	2.99	6.083	85.26	9.167	4.58		
3.083	2.99	6.167	85.26	9.250	2.99		

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IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 0.20 0.56
Dep. Storage (mm)= 1.00 5.00
Average Slope (%)= 1.00 2.00
Length (m)= 71.35 40.00
Mannings n = 0.013 0.350

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Max.Eff.Inten.(mm/hr)= 85.26 29.93
over (min) 5.00 20.00
Storage Coeff. (min)= 2.22 (ii) 16.22 (ii)
Unit Hyd. Tpeak (min)= 5.00 20.00
Unit Hyd. peak (cms)= 0.30 0.06

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

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*TOTALS*
PEAK FLOW (cms)= 0.05 0.03 0.074 (iii)
TIME TO PEAK (hrs)= 6.08 6.33 6.17
RUNOFF VOLUME (mm)= 98.60 29.59 47.52
TOTAL RAINFALL (mm)= 99.60 99.60 99.60
RUNOFF COEFFICIENT = 0.99 0.30 0.48

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----- TRANSFORMED HYETOGRAPH -----

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TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.99	6.250	21.71	9.33	2.99
0.167	0.00	3.250	3.98	6.333	21.71	9.42	2.99
0.250	2.99	3.333	3.98	6.417	21.71	9.50	2.99
0.333	2.99	3.417	3.98	6.500	21.71	9.58	2.99
0.417	2.99	3.500	3.98	6.583	21.71	9.67	2.99
0.500	2.99	3.583	3.98	6.667	21.71	9.75	2.39
0.583	2.99	3.667	3.98	6.750	9.56	9.83	2.39
0.667	2.99	3.750	3.98	6.833	9.56	9.92	2.39
0.750	1.39	3.833	3.98	6.917	9.56	10.00	2.39
0.833	1.39	3.917	3.98	7.000	9.56	10.08	2.39
0.917	1.39	4.000	3.98	7.083	9.56	10.17	2.39
1.000	1.39	4.083	3.98	7.167	9.56	10.25	3.39
1.083	1.39	4.167	3.98	7.250	6.37	10.33	3.39
1.167	1.39	4.250	5.38	7.333	6.37	10.42	3.39
1.250	2.59	4.333	5.38	7.417	6.37	10.50	3.39
1.333	2.59	4.417	5.38	7.500	6.37	10.58	3.39
1.417	2.59	4.500	5.38	7.583	6.37	10.67	3.39
1.500	2.59	4.583	5.38	7.667	6.37	10.75	2.19
1.583	2.59	4.667	5.38	7.750	5.58	10.83	2.19
1.667	2.59	4.750	6.77	7.833	5.58	10.92	2.19
1.750	2.59	4.833	6.77	7.917	5.58	11.00	2.19
1.833	2.59	4.917	6.77	8.000	5.58	11.08	2.19
1.917	2.59	5.000	6.77	8.083	5.58	11.17	2.19
2.000	2.59	5.083	6.77	8.167	5.58	11.25	1.99
2.083	2.59	5.167	6.77	8.250	4.38	11.33	1.99
2.167	2.59	5.250	10.76	8.333	4.38	11.42	1.99
2.250	3.39	5.333	10.76	8.417	4.38	11.50	1.99
2.333	3.39	5.417	10.76	8.500	4.38	11.58	1.99
2.417	3.39	5.500	10.76	8.583	4.38	11.67	1.99
2.500	3.39	5.583	10.76	8.667	4.38	11.75	1.99
2.583	3.39	5.667	10.76	8.750	4.58	11.83	1.99

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 55.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| ADD HYD ( 0015) |
| 1 + 2 = 3 |
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	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0140):	0.76	0.074	6.17	47.52
+ ID2= 2 (0141):	7.22	0.310	6.67	32.58
=====				
ID = 3 (0015):	7.98	0.343	6.67	34.00

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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| CALIB |
| NASHYD ( 0151) | Area (ha)= 14.07 Curve Number (CN)= 66.0
| ID= 1 DT= 5.0 min | Ia (mm)= 14.20 # of Linear Res.(N)= 3.00
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U.H. Tp(hrs)= 0.18

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.99	6.250	21.71	9.33	2.99
0.167	0.00	3.250	3.98	6.333	21.71	9.42	2.99
0.250	2.99	3.333	3.98	6.417	21.71	9.50	2.99
0.333	2.99	3.417	3.98	6.500	21.71	9.58	2.99
0.417	2.99	3.500	3.98	6.583	21.71	9.67	2.99
0.500	2.99	3.583	3.98	6.667	21.71	9.75	2.39
0.583	2.99	3.667	3.98	6.750	9.56	9.83	2.39
0.667	2.99	3.750	3.98	6.833	9.56	9.92	2.39
0.750	1.39	3.833	3.98	6.917	9.56	10.00	2.39
0.833	1.39	3.917	3.98	7.000	9.56	10.08	2.39
0.917	1.39	4.000	3.98	7.083	9.56	10.17	2.39
1.000	1.39	4.083	3.98	7.167	9.56	10.25	3.39
1.083	1.39	4.167	3.98	7.250	6.37	10.33	3.39
1.167	1.39	4.250	5.38	7.333	6.37	10.42	3.39
1.250	2.59	4.333	5.38	7.417	6.37	10.50	3.39
1.333	2.59	4.417	5.38	7.500	6.37	10.58	3.39
1.417	2.59	4.500	5.38	7.583	6.37	10.67	3.39
1.500	2.59	4.583	5.38	7.667	6.37	10.75	2.19
1.583	2.59	4.667	5.38	7.750	5.58	10.83	2.19
1.667	2.59	4.750	6.77	7.833	5.58	10.92	2.19
1.750	2.59	4.833	6.77	7.917	5.58	11.00	2.19
1.833	2.59	4.917	6.77	8.000	5.58	11.08	2.19
1.917	2.59	5.000	6.77	8.083	5.58	11.17	2.19
2.000	2.59	5.083	6.77	8.167	5.58	11.25	1.99
2.083	2.59	5.167	6.77	8.250	4.38	11.33	1.99
2.167	2.59	5.250	10.76	8.333	4.38	11.42	1.99
2.250	3.39	5.333	10.76	8.417	4.38	11.50	1.99
2.333	3.39	5.417	10.76	8.500	4.38	11.58	1.99
2.417	3.39	5.500	10.76	8.583	4.38	11.67	1.99
2.500	3.39	5.583	10.76	8.667	4.38	11.75	1.99
2.583	3.39	5.667	10.76	8.750	4.58	11.83	1.99
2.667	3.39	5.750	85.26	8.833	4.58	11.92	1.99
2.750	2.99	5.833	85.26	8.917	4.58	12.00	1.99
2.833	2.99	5.917	85.26	9.000	4.58	12.08	1.99
2.917	2.99	6.000	85.26	9.083	4.58	12.17	1.99
3.000	2.99	6.083	85.26	9.167	4.58		
3.083	2.99	6.167	85.26	9.250	2.99		

Unit Hyd Qpeak (cms)= 2.986

PEAK FLOW (cms)= 1.144 (i)
 TIME TO PEAK (hrs)= 6.167
 RUNOFF VOLUME (mm)= 33.629
 TOTAL RAINFALL (mm)= 99.600
 RUNOFF COEFFICIENT = 0.338

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB			
STANDHYD (0150)		Area (ha)=	1.35
ID= 1 DT= 5.0 min		Total Imp(%)=	26.00 Dir. Conn.(%)= 26.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.35	1.00
Dep. Storage (mm)=	1.00	5.00
Average Slope (%)=	1.00	2.00
Length (m)=	94.72	40.00
Mannings n =	0.013	0.350

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.99	6.250	21.71	9.33	2.99
0.167	0.00	3.250	3.98	6.333	21.71	9.42	2.99
0.250	2.99	3.333	3.98	6.417	21.71	9.50	2.99
0.333	2.99	3.417	3.98	6.500	21.71	9.58	2.99
0.417	2.99	3.500	3.98	6.583	21.71	9.67	2.99
0.500	2.99	3.583	3.98	6.667	21.71	9.75	2.39
0.583	2.99	3.667	3.98	6.750	9.56	9.83	2.39
0.667	2.99	3.750	3.98	6.833	9.56	9.92	2.39
0.750	1.39	3.833	3.98	6.917	9.56	10.00	2.39
0.833	1.39	3.917	3.98	7.000	9.56	10.08	2.39
0.917	1.39	4.000	3.98	7.083	9.56	10.17	2.39
1.000	1.39	4.083	3.98	7.167	9.56	10.25	3.39
1.083	1.39	4.167	3.98	7.250	6.37	10.33	3.39
1.167	1.39	4.250	5.38	7.333	6.37	10.42	3.39
1.250	2.59	4.333	5.38	7.417	6.37	10.50	3.39
1.333	2.59	4.417	5.38	7.500	6.37	10.58	3.39
1.417	2.59	4.500	5.38	7.583	6.37	10.67	3.39
1.500	2.59	4.583	5.38	7.667	6.37	10.75	2.19
1.583	2.59	4.667	5.38	7.750	5.58	10.83	2.19
1.667	2.59	4.750	6.77	7.833	5.58	10.92	2.19
1.750	2.59	4.833	6.77	7.917	5.58	11.00	2.19
1.833	2.59	4.917	6.77	8.000	5.58	11.08	2.19
1.917	2.59	5.000	6.77	8.083	5.58	11.17	2.19
2.000	2.59	5.083	6.77	8.167	5.58	11.25	1.99
2.083	2.59	5.167	6.77	8.250	4.38	11.33	1.99
2.167	2.59	5.250	10.76	8.333	4.38	11.42	1.99
2.250	3.39	5.333	10.76	8.417	4.38	11.50	1.99
2.333	3.39	5.417	10.76	8.500	4.38	11.58	1.99
2.417	3.39	5.500	10.76	8.583	4.38	11.67	1.99
2.500	3.39	5.583	10.76	8.667	4.38	11.75	1.99
2.583	3.39	5.667	10.76	8.750	4.58	11.83	1.99
2.667	3.39	5.750	85.26	8.833	4.58	11.92	1.99
2.750	2.99	5.833	85.26	8.917	4.58	12.00	1.99
2.833	2.99	5.917	85.26	9.000	4.58	12.08	1.99
2.917	2.99	6.000	85.26	9.083	4.58	12.17	1.99
3.000	2.99	6.083	85.26	9.167	4.58		
3.083	2.99	6.167	85.26	9.250	2.99		

2.667	3.39	5.750	85.26	8.833	4.58	11.92	1.99
2.750	2.99	5.833	85.26	8.917	4.58	12.00	1.99
2.833	2.99	5.917	85.26	9.000	4.58	12.08	1.99
2.917	2.99	6.000	85.26	9.083	4.58	12.17	1.99
3.000	2.99	6.083	85.26	9.167	4.58		
3.083	2.99	6.167	85.26	9.250	2.99		

Max.Eff.Inten.(mm/hr)= 85.26 29.93
over (min) 5.00 20.00
Storage Coeff. (min)= 2.64 (ii) 16.63 (ii)
Unit Hyd. Tpeak (min)= 5.00 20.00
Unit Hyd. peak (cms)= 0.29 0.06

TOTALS

PEAK FLOW (cms)= 0.08 0.06 0.131 (iii)
TIME TO PEAK (hrs)= 6.17 6.33 6.17
RUNOFF VOLUME (mm)= 98.60 29.59 47.53
TOTAL RAINFALL (mm)= 99.60 99.60 99.60
RUNOFF COEFFICIENT = 0.99 0.30 0.48

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 55.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0018)	AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0150):	1.35	0.131	6.17	47.53
+ ID2= 2 (0151):	14.07	1.144	6.17	33.63
=====				
ID = 3 (0018):	15.42	1.275	6.17	34.85

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB	Area	(ha)	Curve Number	(CN)=
NASHYD (0161)	131.28		75.0	
ID= 1 DT= 5.0 min	8.60		# of Linear Res.(N)=	3.00
	U.H. Tp(hrs)=	0.95		

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.99	6.250	21.71	9.33	2.99
0.167	0.00	3.250	3.98	6.333	21.71	9.42	2.99
0.250	2.99	3.333	3.98	6.417	21.71	9.50	2.99
0.333	2.99	3.417	3.98	6.500	21.71	9.58	2.99
0.417	2.99	3.500	3.98	6.583	21.71	9.67	2.99
0.500	2.99	3.583	3.98	6.667	21.71	9.75	2.39
0.583	2.99	3.667	3.98	6.750	9.56	9.83	2.39
0.667	2.99	3.750	3.98	6.833	9.56	9.92	2.39
0.750	1.39	3.833	3.98	6.917	9.56	10.00	2.39
0.833	1.39	3.917	3.98	7.000	9.56	10.08	2.39
0.917	1.39	4.000	3.98	7.083	9.56	10.17	2.39
1.000	1.39	4.083	3.98	7.167	9.56	10.25	3.39
1.083	1.39	4.167	3.98	7.250	6.37	10.33	3.39
1.167	1.39	4.250	5.38	7.333	6.37	10.42	3.39
1.250	2.59	4.333	5.38	7.417	6.37	10.50	3.39
1.333	2.59	4.417	5.38	7.500	6.37	10.58	3.39
1.417	2.59	4.500	5.38	7.583	6.37	10.67	3.39
1.500	2.59	4.583	5.38	7.667	6.37	10.75	2.19
1.583	2.59	4.667	5.38	7.750	5.58	10.83	2.19
1.667	2.59	4.750	6.77	7.833	5.58	10.92	2.19
1.750	2.59	4.833	6.77	7.917	5.58	11.00	2.19
1.833	2.59	4.917	6.77	8.000	5.58	11.08	2.19
1.917	2.59	5.000	6.77	8.083	5.58	11.17	2.19
2.000	2.59	5.083	6.77	8.167	5.58	11.25	1.99
2.083	2.59	5.167	6.77	8.250	4.38	11.33	1.99
2.167	2.59	5.250	10.76	8.333	4.38	11.42	1.99
2.250	3.39	5.333	10.76	8.417	4.38	11.50	1.99
2.333	3.39	5.417	10.76	8.500	4.38	11.58	1.99
2.417	3.39	5.500	10.76	8.583	4.38	11.67	1.99
2.500	3.39	5.583	10.76	8.667	4.38	11.75	1.99
2.583	3.39	5.667	10.76	8.750	4.58	11.83	1.99
2.667	3.39	5.750	85.26	8.833	4.58	11.92	1.99
2.750	2.99	5.833	85.26	8.917	4.58	12.00	1.99
2.833	2.99	5.917	85.26	9.000	4.58	12.08	1.99
2.917	2.99	6.000	85.26	9.083	4.58	12.17	1.99
3.000	2.99	6.083	85.26	9.167	4.58		
3.083	2.99	6.167	85.26	9.250	2.99		

Unit Hyd Qpeak (cms)= 5.278

PEAK FLOW (cms)= 5.863 (i)
TIME TO PEAK (hrs)= 7.083
RUNOFF VOLUME (mm)= 47.140
TOTAL RAINFALL (mm)= 99.600
RUNOFF COEFFICIENT = 0.473

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| CALIB |
| STANDHYD ( 0160) | Area (ha)= 3.05
| ID= 1 DT= 5.0 min | Total Imp(%)= 28.00 Dir. Conn.(%)= 28.00
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2.667	3.39	5.750	85.26	8.833	4.58	11.92	1.99
2.750	2.99	5.833	85.26	8.917	4.58	12.00	1.99
2.833	2.99	5.917	85.26	9.000	4.58	12.08	1.99
2.917	2.99	6.000	85.26	9.083	4.58	12.17	1.99
3.000	2.99	6.083	85.26	9.167	4.58		
3.083	2.99	6.167	85.26	9.250	2.99		

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IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 0.85 2.20
Dep. Storage (mm)= 1.00 5.00
Average Slope (%)= 1.00 2.00
Length (m)= 142.49 40.00
Mannings n = 0.013 0.350

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Max.Eff.Inten.(mm/hr)= 85.26 29.93
over (min) 5.00 20.00
Storage Coeff. (min)= 3.37 (ii) 17.36 (ii)
Unit Hyd. Tpeak (min)= 5.00 20.00
Unit Hyd. peak (cms)= 0.26 0.06

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

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*TOTALS*
PEAK FLOW (cms)= 0.20 0.12 0.305 (iii)
TIME TO PEAK (hrs)= 6.17 6.33 6.17
RUNOFF VOLUME (mm)= 98.60 29.59 48.91
TOTAL RAINFALL (mm)= 99.60 99.60 99.60
RUNOFF COEFFICIENT = 0.99 0.30 0.49

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----- TRANSFORMED HYETOGRAPH -----

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TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.99	6.250	21.71	9.33	2.99
0.167	0.00	3.250	3.98	6.333	21.71	9.42	2.99
0.250	2.99	3.333	3.98	6.417	21.71	9.50	2.99
0.333	2.99	3.417	3.98	6.500	21.71	9.58	2.99
0.417	2.99	3.500	3.98	6.583	21.71	9.67	2.99
0.500	2.99	3.583	3.98	6.667	21.71	9.75	2.39
0.583	2.99	3.667	3.98	6.750	9.56	9.83	2.39
0.667	2.99	3.750	3.98	6.833	9.56	9.92	2.39
0.750	1.39	3.833	3.98	6.917	9.56	10.00	2.39
0.833	1.39	3.917	3.98	7.000	9.56	10.08	2.39
0.917	1.39	4.000	3.98	7.083	9.56	10.17	2.39
1.000	1.39	4.083	3.98	7.167	9.56	10.25	3.39
1.083	1.39	4.167	3.98	7.250	6.37	10.33	3.39
1.167	1.39	4.250	5.38	7.333	6.37	10.42	3.39
1.250	2.59	4.333	5.38	7.417	6.37	10.50	3.39
1.333	2.59	4.417	5.38	7.500	6.37	10.58	3.39
1.417	2.59	4.500	5.38	7.583	6.37	10.67	3.39
1.500	2.59	4.583	5.38	7.667	6.37	10.75	2.19
1.583	2.59	4.667	5.38	7.750	5.58	10.83	2.19
1.667	2.59	4.750	6.77	7.833	5.58	10.92	2.19
1.750	2.59	4.833	6.77	7.917	5.58	11.00	2.19
1.833	2.59	4.917	6.77	8.000	5.58	11.08	2.19
1.917	2.59	5.000	6.77	8.083	5.58	11.17	2.19
2.000	2.59	5.083	6.77	8.167	5.58	11.25	1.99
2.083	2.59	5.167	6.77	8.250	4.38	11.33	1.99
2.167	2.59	5.250	10.76	8.333	4.38	11.42	1.99
2.250	3.39	5.333	10.76	8.417	4.38	11.50	1.99
2.333	3.39	5.417	10.76	8.500	4.38	11.58	1.99
2.417	3.39	5.500	10.76	8.583	4.38	11.67	1.99
2.500	3.39	5.583	10.76	8.667	4.38	11.75	1.99
2.583	3.39	5.667	10.76	8.750	4.58	11.83	1.99

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 55.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| ADD HYD ( 0021) |
| 1 + 2 = 3 |
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	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0160):	3.05	0.305	6.17	48.91
+ ID2= 2 (0161):	131.28	5.863	7.08	47.14
=====				
ID = 3 (0021):	134.33	5.931	7.08	47.18

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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| CALIB |
| NASHYD ( 0171) | Area (ha)= 32.39 Curve Number (CN)= 59.0
| ID= 1 DT= 5.0 min | Ia (mm)= 19.10 # of Linear Res.(N)= 3.00
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U.H. Tp(hrs)= 0.89

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.99	6.250	21.71	9.33	2.99
0.167	0.00	3.250	3.98	6.333	21.71	9.42	2.99
0.250	2.99	3.333	3.98	6.417	21.71	9.50	2.99
0.333	2.99	3.417	3.98	6.500	21.71	9.58	2.99
0.417	2.99	3.500	3.98	6.583	21.71	9.67	2.99
0.500	2.99	3.583	3.98	6.667	21.71	9.75	2.39
0.583	2.99	3.667	3.98	6.750	9.56	9.83	2.39
0.667	2.99	3.750	3.98	6.833	9.56	9.92	2.39
0.750	1.39	3.833	3.98	6.917	9.56	10.00	2.39
0.833	1.39	3.917	3.98	7.000	9.56	10.08	2.39
0.917	1.39	4.000	3.98	7.083	9.56	10.17	2.39
1.000	1.39	4.083	3.98	7.167	9.56	10.25	3.39
1.083	1.39	4.167	3.98	7.250	6.37	10.33	3.39
1.167	1.39	4.250	5.38	7.333	6.37	10.42	3.39
1.250	2.59	4.333	5.38	7.417	6.37	10.50	3.39
1.333	2.59	4.417	5.38	7.500	6.37	10.58	3.39
1.417	2.59	4.500	5.38	7.583	6.37	10.67	3.39
1.500	2.59	4.583	5.38	7.667	6.37	10.75	2.19
1.583	2.59	4.667	5.38	7.750	5.58	10.83	2.19
1.667	2.59	4.750	6.77	7.833	5.58	10.92	2.19
1.750	2.59	4.833	6.77	7.917	5.58	11.00	2.19
1.833	2.59	4.917	6.77	8.000	5.58	11.08	2.19
1.917	2.59	5.000	6.77	8.083	5.58	11.17	2.19
2.000	2.59	5.083	6.77	8.167	5.58	11.25	1.99
2.083	2.59	5.167	6.77	8.250	4.38	11.33	1.99
2.167	2.59	5.250	10.76	8.333	4.38	11.42	1.99
2.250	3.39	5.333	10.76	8.417	4.38	11.50	1.99
2.333	3.39	5.417	10.76	8.500	4.38	11.58	1.99
2.417	3.39	5.500	10.76	8.583	4.38	11.67	1.99
2.500	3.39	5.583	10.76	8.667	4.38	11.75	1.99
2.583	3.39	5.667	10.76	8.750	4.58	11.83	1.99
2.667	3.39	5.750	85.26	8.833	4.58	11.92	1.99
2.750	2.99	5.833	85.26	8.917	4.58	12.00	1.99
2.833	2.99	5.917	85.26	9.000	4.58	12.08	1.99
2.917	2.99	6.000	85.26	9.083	4.58	12.17	1.99
3.000	2.99	6.083	85.26	9.167	4.58		
3.083	2.99	6.167	85.26	9.250	2.99		

Unit Hyd Qpeak (cms)= 1.390

PEAK FLOW (cms)= 0.750 (i)
 TIME TO PEAK (hrs)= 7.167
 RUNOFF VOLUME (mm)= 25.214
 TOTAL RAINFALL (mm)= 99.600
 RUNOFF COEFFICIENT = 0.253

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| CALIB |
| NASHYD ( 0180) | Area (ha)= 2.46 Curve Number (CN)= 55.0
| ID= 1 DT= 5.0 min | Ia (mm)= 22.60 # of Linear Res.(N)= 3.00
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U.H. Tp(hrs)= 0.99

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.99	6.250	21.71	9.33	2.99
0.167	0.00	3.250	3.98	6.333	21.71	9.42	2.99
0.250	2.99	3.333	3.98	6.417	21.71	9.50	2.99
0.333	2.99	3.417	3.98	6.500	21.71	9.58	2.99
0.417	2.99	3.500	3.98	6.583	21.71	9.67	2.99
0.500	2.99	3.583	3.98	6.667	21.71	9.75	2.39
0.583	2.99	3.667	3.98	6.750	9.56	9.83	2.39
0.667	2.99	3.750	3.98	6.833	9.56	9.92	2.39
0.750	1.39	3.833	3.98	6.917	9.56	10.00	2.39
0.833	1.39	3.917	3.98	7.000	9.56	10.08	2.39
0.917	1.39	4.000	3.98	7.083	9.56	10.17	2.39
1.000	1.39	4.083	3.98	7.167	9.56	10.25	3.39
1.083	1.39	4.167	3.98	7.250	6.37	10.33	3.39
1.167	1.39	4.250	5.38	7.333	6.37	10.42	3.39
1.250	2.59	4.333	5.38	7.417	6.37	10.50	3.39
1.333	2.59	4.417	5.38	7.500	6.37	10.58	3.39
1.417	2.59	4.500	5.38	7.583	6.37	10.67	3.39
1.500	2.59	4.583	5.38	7.667	6.37	10.75	2.19
1.583	2.59	4.667	5.38	7.750	5.58	10.83	2.19
1.667	2.59	4.750	6.77	7.833	5.58	10.92	2.19
1.750	2.59	4.833	6.77	7.917	5.58	11.00	2.19
1.833	2.59	4.917	6.77	8.000	5.58	11.08	2.19
1.917	2.59	5.000	6.77	8.083	5.58	11.17	2.19
2.000	2.59	5.083	6.77	8.167	5.58	11.25	1.99
2.083	2.59	5.167	6.77	8.250	4.38	11.33	1.99
2.167	2.59	5.250	10.76	8.333	4.38	11.42	1.99
2.250	3.39	5.333	10.76	8.417	4.38	11.50	1.99
2.333	3.39	5.417	10.76	8.500	4.38	11.58	1.99
2.417	3.39	5.500	10.76	8.583	4.38	11.67	1.99
2.500	3.39	5.583	10.76	8.667	4.38	11.75	1.99
2.583	3.39	5.667	10.76	8.750	4.58	11.83	1.99
2.667	3.39	5.750	85.26	8.833	4.58	11.92	1.99
2.750	2.99	5.833	85.26	8.917	4.58	12.00	1.99
2.833	2.99	5.917	85.26	9.000	4.58	12.08	1.99
2.917	2.99	6.000	85.26	9.083	4.58	12.17	1.99
3.000	2.99	6.083	85.26	9.167	4.58		
3.083	2.99	6.167	85.26	9.250	2.99		

Unit Hyd Qpeak (cms)= 0.095

PEAK FLOW (cms)= 0.042 (i)
 TIME TO PEAK (hrs)= 7.333
 RUNOFF VOLUME (mm)= 20.816
 TOTAL RAINFALL (mm)= 99.600
 RUNOFF COEFFICIENT = 0.209

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

1.750	2.59	4.833	6.77	7.917	5.58	11.00	2.19
1.833	2.59	4.917	6.77	8.000	5.58	11.08	2.19
1.917	2.59	5.000	6.77	8.083	5.58	11.17	2.19
2.000	2.59	5.083	6.77	8.167	5.58	11.25	1.99
2.083	2.59	5.167	6.77	8.250	4.38	11.33	1.99
2.167	2.59	5.250	10.76	8.333	4.38	11.42	1.99
2.250	3.39	5.333	10.76	8.417	4.38	11.50	1.99
2.333	3.39	5.417	10.76	8.500	4.38	11.58	1.99
2.417	3.39	5.500	10.76	8.583	4.38	11.67	1.99
2.500	3.39	5.583	10.76	8.667	4.38	11.75	1.99
2.583	3.39	5.667	10.76	8.750	4.58	11.83	1.99
2.667	3.39	5.750	85.26	8.833	4.58	11.92	1.99
2.750	2.99	5.833	85.26	8.917	4.58	12.00	1.99
2.833	2.99	5.917	85.26	9.000	4.58	12.08	1.99
2.917	2.99	6.000	85.26	9.083	4.58	12.17	1.99
3.000	2.99	6.083	85.26	9.167	4.58		
3.083	2.99	6.167	85.26	9.250	2.99		

 | CALIB |
 | STANDHYD (0181) | Area (ha)= 1.21
 | ID= 1 DT= 5.0 min | Total Imp(%)= 28.00 Dir. Conn.(%)= 28.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.34	0.87
Dep. Storage (mm)=	1.00	5.00
Average Slope (%)=	1.00	2.00
Length (m)=	89.96	40.00
Mannings n =	0.013	0.350

Max.Eff.Inten.(mm/hr)= 85.26 29.93
 over (min) 5.00 20.00
 Storage Coeff. (min)= 2.56 (ii) 16.55 (ii)
 Unit Hyd. Tpeak (min)= 5.00 20.00
 Unit Hyd. peak (cms)= 0.29 0.06

TOTALS

PEAK FLOW (cms)= 0.08 0.05 0.122 (iii)
 TIME TO PEAK (hrs)= 6.17 6.33 6.17
 RUNOFF VOLUME (mm)= 98.60 29.59 48.91
 TOTAL RAINFALL (mm)= 99.60 99.60 99.60
 RUNOFF COEFFICIENT = 0.99 0.30 0.49

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.99	6.250	21.71	9.33	2.99
0.167	0.00	3.250	3.98	6.333	21.71	9.42	2.99
0.250	2.99	3.333	3.98	6.417	21.71	9.50	2.99
0.333	2.99	3.417	3.98	6.500	21.71	9.58	2.99
0.417	2.99	3.500	3.98	6.583	21.71	9.67	2.99
0.500	2.99	3.583	3.98	6.667	21.71	9.75	2.39
0.583	2.99	3.667	3.98	6.750	9.56	9.83	2.39
0.667	2.99	3.750	3.98	6.833	9.56	9.92	2.39
0.750	1.39	3.833	3.98	6.917	9.56	10.00	2.39
0.833	1.39	3.917	3.98	7.000	9.56	10.08	2.39
0.917	1.39	4.000	3.98	7.083	9.56	10.17	2.39
1.000	1.39	4.083	3.98	7.167	9.56	10.25	3.39
1.083	1.39	4.167	3.98	7.250	6.37	10.33	3.39
1.167	1.39	4.250	5.38	7.333	6.37	10.42	3.39
1.250	2.59	4.333	5.38	7.417	6.37	10.50	3.39
1.333	2.59	4.417	5.38	7.500	6.37	10.58	3.39
1.417	2.59	4.500	5.38	7.583	6.37	10.67	3.39
1.500	2.59	4.583	5.38	7.667	6.37	10.75	2.19
1.583	2.59	4.667	5.38	7.750	5.58	10.83	2.19
1.667	2.59	4.750	6.77	7.833	5.58	10.92	2.19

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
 CN* = 55.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
 THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | ADD HYD (0027) |
 | 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
 (ha) (cms) (hrs) (mm)
 ID1= 1 (0180): 2.46 0.042 7.33 20.82
 + ID2= 2 (0181): 1.21 0.122 6.17 48.91
 =====
 ID = 3 (0027): 3.67 0.129 6.17 30.08

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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| ADD HYD ( 0062) |
| 1 + 2 = 3 |
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	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0171):	32.39	0.750	7.17	25.21
+ ID2= 2 (0027):	3.67	0.129	6.17	30.08
=====				
ID = 3 (0062):	36.06	0.817	7.17	25.71

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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| CALIB |
| STANDHYD ( 0170) |
| ID= 1 DT= 5.0 min |
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	Area (ha)=	3.33
Total Imp(%)=	29.00	Dir. Conn.(%)= 29.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.97	2.36
Dep. Storage (mm)=	1.00	5.00
Average Slope (%)=	1.00	2.00
Length (m)=	149.09	40.00
Mannings n =	0.013	0.350

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

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---- TRANSFORMED HYETOGRAPH ----
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TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.99	6.250	21.71	9.33	2.99
0.167	0.00	3.250	3.98	6.333	21.71	9.42	2.99
0.250	2.99	3.333	3.98	6.417	21.71	9.50	2.99
0.333	2.99	3.417	3.98	6.500	21.71	9.58	2.99
0.417	2.99	3.500	3.98	6.583	21.71	9.67	2.99
0.500	2.99	3.583	3.98	6.667	21.71	9.75	2.39
0.583	2.99	3.667	3.98	6.750	9.56	9.83	2.39
0.667	2.99	3.750	3.98	6.833	9.56	9.92	2.39
0.750	1.39	3.833	3.98	6.917	9.56	10.00	2.39
0.833	1.39	3.917	3.98	7.000	9.56	10.08	2.39
0.917	1.39	4.000	3.98	7.083	9.56	10.17	2.39
1.000	1.39	4.083	3.98	7.167	9.56	10.25	3.39
1.083	1.39	4.167	3.98	7.250	6.37	10.33	3.39
1.167	1.39	4.250	5.38	7.333	6.37	10.42	3.39
1.250	2.59	4.333	5.38	7.417	6.37	10.50	3.39
1.333	2.59	4.417	5.38	7.500	6.37	10.58	3.39
1.417	2.59	4.500	5.38	7.583	6.37	10.67	3.39
1.500	2.59	4.583	5.38	7.667	6.37	10.75	2.19
1.583	2.59	4.667	5.38	7.750	5.58	10.83	2.19

1.667	2.59	4.750	6.77	7.833	5.58	10.92	2.19
1.750	2.59	4.833	6.77	7.917	5.58	11.00	2.19
1.833	2.59	4.917	6.77	8.000	5.58	11.08	2.19
1.917	2.59	5.000	6.77	8.083	5.58	11.17	2.19
2.000	2.59	5.083	6.77	8.167	5.58	11.25	1.99
2.083	2.59	5.167	6.77	8.250	4.38	11.33	1.99
2.167	2.59	5.250	10.76	8.333	4.38	11.42	1.99
2.250	3.39	5.333	10.76	8.417	4.38	11.50	1.99
2.333	3.39	5.417	10.76	8.500	4.38	11.58	1.99
2.417	3.39	5.500	10.76	8.583	4.38	11.67	1.99
2.500	3.39	5.583	10.76	8.667	4.38	11.75	1.99
2.583	3.39	5.667	10.76	8.750	4.58	11.83	1.99
2.667	3.39	5.750	85.26	8.833	4.58	11.92	1.99
2.750	2.99	5.833	85.26	8.917	4.58	12.00	1.99
2.833	2.99	5.917	85.26	9.000	4.58	12.08	1.99
2.917	2.99	6.000	85.26	9.083	4.58	12.17	1.99
3.000	2.99	6.083	85.26	9.167	4.58		
3.083	2.99	6.167	85.26	9.250	2.99		

Max.Eff.Inten.(mm/hr)=	85.26	29.93
over (min)	5.00	20.00
Storage Coeff. (min)=	3.46 (ii)	17.45 (ii)
Unit Hyd. Tpeak (min)=	5.00	20.00
Unit Hyd. peak (cms)=	0.26	0.06

TOTALS

PEAK FLOW (cms)=	0.23	0.13	0.339 (iii)
TIME TO PEAK (hrs)=	6.17	6.33	6.17
RUNOFF VOLUME (mm)=	98.60	29.59	49.60
TOTAL RAINFALL (mm)=	99.60	99.60	99.60
RUNOFF COEFFICIENT =	0.99	0.30	0.50

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 55.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| ADD HYD ( 0024) |
| 1 + 2 = 3 |
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	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0170):	3.33	0.339	6.17	49.60
+ ID2= 2 (0062):	36.06	0.817	7.17	25.71
=====				
ID = 3 (0024):	39.39	0.890	7.08	27.73

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

3.083 2.99 | 6.167 85.26 | 9.250 2.99 |

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| CALIB |
| NASHYD ( 0221) | Area (ha)= 14.91 Curve Number (CN)= 59.0
| ID= 1 DT= 5.0 min | Ia (mm)= 18.90 # of Linear Res.(N)= 3.00
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| U.H. Tp(hrs)= 0.41

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

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Unit Hyd Qpeak (cms)= 1.389
PEAK FLOW (cms)= 0.561 (i)
TIME TO PEAK (hrs)= 6.500
RUNOFF VOLUME (mm)= 25.317
TOTAL RAINFALL (mm)= 99.600
RUNOFF COEFFICIENT = 0.254

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(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.99	6.250	21.71	9.33	2.99
0.167	0.00	3.250	3.98	6.333	21.71	9.42	2.99
0.250	2.99	3.333	3.98	6.417	21.71	9.50	2.99
0.333	2.99	3.417	3.98	6.500	21.71	9.58	2.99
0.417	2.99	3.500	3.98	6.583	21.71	9.67	2.99
0.500	2.99	3.583	3.98	6.667	21.71	9.75	2.39
0.583	2.99	3.667	3.98	6.750	9.56	9.83	2.39
0.667	2.99	3.750	3.98	6.833	9.56	9.92	2.39
0.750	1.39	3.833	3.98	6.917	9.56	10.00	2.39
0.833	1.39	3.917	3.98	7.000	9.56	10.08	2.39
0.917	1.39	4.000	3.98	7.083	9.56	10.17	2.39
1.000	1.39	4.083	3.98	7.167	9.56	10.25	3.39
1.083	1.39	4.167	3.98	7.250	6.37	10.33	3.39
1.167	1.39	4.250	5.38	7.333	6.37	10.42	3.39
1.250	2.59	4.333	5.38	7.417	6.37	10.50	3.39
1.333	2.59	4.417	5.38	7.500	6.37	10.58	3.39
1.417	2.59	4.500	5.38	7.583	6.37	10.67	3.39
1.500	2.59	4.583	5.38	7.667	6.37	10.75	2.19
1.583	2.59	4.667	5.38	7.750	5.58	10.83	2.19
1.667	2.59	4.750	6.77	7.833	5.58	10.92	2.19
1.750	2.59	4.833	6.77	7.917	5.58	11.00	2.19
1.833	2.59	4.917	6.77	8.000	5.58	11.08	2.19
1.917	2.59	5.000	6.77	8.083	5.58	11.17	2.19
2.000	2.59	5.083	6.77	8.167	5.58	11.25	1.99
2.083	2.59	5.167	6.77	8.250	4.38	11.33	1.99
2.167	2.59	5.250	10.76	8.333	4.38	11.42	1.99
2.250	3.39	5.333	10.76	8.417	4.38	11.50	1.99
2.333	3.39	5.417	10.76	8.500	4.38	11.58	1.99
2.417	3.39	5.500	10.76	8.583	4.38	11.67	1.99
2.500	3.39	5.583	10.76	8.667	4.38	11.75	1.99
2.583	3.39	5.667	10.76	8.750	4.58	11.83	1.99
2.667	3.39	5.750	85.26	8.833	4.58	11.92	1.99
2.750	2.99	5.833	85.26	8.917	4.58	12.00	1.99
2.833	2.99	5.917	85.26	9.000	4.58	12.08	1.99
2.917	2.99	6.000	85.26	9.083	4.58	12.17	1.99
3.000	2.99	6.083	85.26	9.167	4.58		

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| CALIB |
| STANDHYD ( 0220) | Area (ha)= 0.88
| ID= 1 DT= 5.0 min | Total Imp(%)= 99.00 Dir. Conn.(%)= 99.00
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IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 0.87 0.01
Dep. Storage (mm)= 1.00 5.00
Average Slope (%)= 1.00 2.00
Length (m)= 76.42 40.00
Mannings n = 0.013 0.350

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.99	6.250	21.71	9.33	2.99
0.167	0.00	3.250	3.98	6.333	21.71	9.42	2.99
0.250	2.99	3.333	3.98	6.417	21.71	9.50	2.99
0.333	2.99	3.417	3.98	6.500	21.71	9.58	2.99
0.417	2.99	3.500	3.98	6.583	21.71	9.67	2.99
0.500	2.99	3.583	3.98	6.667	21.71	9.75	2.39
0.583	2.99	3.667	3.98	6.750	9.56	9.83	2.39
0.667	2.99	3.750	3.98	6.833	9.56	9.92	2.39
0.750	1.39	3.833	3.98	6.917	9.56	10.00	2.39
0.833	1.39	3.917	3.98	7.000	9.56	10.08	2.39
0.917	1.39	4.000	3.98	7.083	9.56	10.17	2.39
1.000	1.39	4.083	3.98	7.167	9.56	10.25	3.39
1.083	1.39	4.167	3.98	7.250	6.37	10.33	3.39
1.167	1.39	4.250	5.38	7.333	6.37	10.42	3.39
1.250	2.59	4.333	5.38	7.417	6.37	10.50	3.39
1.333	2.59	4.417	5.38	7.500	6.37	10.58	3.39
1.417	2.59	4.500	5.38	7.583	6.37	10.67	3.39
1.500	2.59	4.583	5.38	7.667	6.37	10.75	2.19
1.583	2.59	4.667	5.38	7.750	5.58	10.83	2.19

1.667	2.59	4.750	6.77	7.833	5.58	10.92	2.19
1.750	2.59	4.833	6.77	7.917	5.58	11.00	2.19
1.833	2.59	4.917	6.77	8.000	5.58	11.08	2.19
1.917	2.59	5.000	6.77	8.083	5.58	11.17	2.19
2.000	2.59	5.083	6.77	8.167	5.58	11.25	1.99
2.083	2.59	5.167	6.77	8.250	4.38	11.33	1.99
2.167	2.59	5.250	10.76	8.333	4.38	11.42	1.99
2.250	3.39	5.333	10.76	8.417	4.38	11.50	1.99
2.333	3.39	5.417	10.76	8.500	4.38	11.58	1.99
2.417	3.39	5.500	10.76	8.583	4.38	11.67	1.99
2.500	3.39	5.583	10.76	8.667	4.38	11.75	1.99
2.583	3.39	5.667	10.76	8.750	4.58	11.83	1.99
2.667	3.39	5.750	85.26	8.833	4.58	11.92	1.99
2.750	2.99	5.833	85.26	8.917	4.58	12.00	1.99
2.833	2.99	5.917	85.26	9.000	4.58	12.08	1.99
2.917	2.99	6.000	85.26	9.083	4.58	12.17	1.99
3.000	2.99	6.083	85.26	9.167	4.58		
3.083	2.99	6.167	85.26	9.250	2.99		

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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| CALIB |
| NASHYD ( 0231) | Area (ha)= 33.58 Curve Number (CN)= 58.0
| ID= 1 DT= 5.0 min | Ia (mm)= 18.60 # of Linear Res.(N)= 3.00
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U.H. Tp(hrs)= 0.31

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.99	6.250	21.71	9.33	2.99
0.167	0.00	3.250	3.98	6.333	21.71	9.42	2.99
0.250	2.99	3.333	3.98	6.417	21.71	9.50	2.99
0.333	2.99	3.417	3.98	6.500	21.71	9.58	2.99
0.417	2.99	3.500	3.98	6.583	21.71	9.67	2.99
0.500	2.99	3.583	3.98	6.667	21.71	9.75	2.39
0.583	2.99	3.667	3.98	6.750	9.56	9.83	2.39
0.667	2.99	3.750	3.98	6.833	9.56	9.92	2.39
0.750	1.39	3.833	3.98	6.917	9.56	10.00	2.39
0.833	1.39	3.917	3.98	7.000	9.56	10.08	2.39
0.917	1.39	4.000	3.98	7.083	9.56	10.17	2.39
1.000	1.39	4.083	3.98	7.167	9.56	10.25	3.39
1.083	1.39	4.167	3.98	7.250	6.37	10.33	3.39
1.167	1.39	4.250	5.38	7.333	6.37	10.42	3.39
1.250	2.59	4.333	5.38	7.417	6.37	10.50	3.39
1.333	2.59	4.417	5.38	7.500	6.37	10.58	3.39
1.417	2.59	4.500	5.38	7.583	6.37	10.67	3.39
1.500	2.59	4.583	5.38	7.667	6.37	10.75	2.19
1.583	2.59	4.667	5.38	7.750	5.58	10.83	2.19
1.667	2.59	4.750	6.77	7.833	5.58	10.92	2.19
1.750	2.59	4.833	6.77	7.917	5.58	11.00	2.19
1.833	2.59	4.917	6.77	8.000	5.58	11.08	2.19
1.917	2.59	5.000	6.77	8.083	5.58	11.17	2.19
2.000	2.59	5.083	6.77	8.167	5.58	11.25	1.99
2.083	2.59	5.167	6.77	8.250	4.38	11.33	1.99
2.167	2.59	5.250	10.76	8.333	4.38	11.42	1.99
2.250	3.39	5.333	10.76	8.417	4.38	11.50	1.99
2.333	3.39	5.417	10.76	8.500	4.38	11.58	1.99
2.417	3.39	5.500	10.76	8.583	4.38	11.67	1.99
2.500	3.39	5.583	10.76	8.667	4.38	11.75	1.99
2.583	3.39	5.667	10.76	8.750	4.58	11.83	1.99
2.667	3.39	5.750	85.26	8.833	4.58	11.92	1.99
2.750	2.99	5.833	85.26	8.917	4.58	12.00	1.99
2.833	2.99	5.917	85.26	9.000	4.58	12.08	1.99
2.917	2.99	6.000	85.26	9.083	4.58	12.17	1.99
3.000	2.99	6.083	85.26	9.167	4.58		

Max.Eff.Inten.(mm/hr)= 85.26 84.59
over (min) 5.00 5.00
Storage Coeff. (min)= 2.32 (ii) 3.78 (ii)
Unit Hyd. Tpeak (min)= 5.00 5.00
Unit Hyd. peak (cms)= 0.30 0.25

TOTALS

PEAK FLOW (cms)= 0.21 0.00 0.208 (iii)
TIME TO PEAK (hrs)= 6.17 6.17 6.17
RUNOFF VOLUME (mm)= 98.60 89.69 98.51
TOTAL RAINFALL (mm)= 99.60 99.60 99.60
RUNOFF COEFFICIENT = 0.99 0.90 0.99

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 98.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```

-----
| ADD HYD ( 0039) |
| 1 + 2 = 3 |
-----
          AREA   QPEAK   TPEAK   R.V.
          (ha)   (cms)   (hrs)   (mm)
ID1= 1 ( 0220):  0.88  0.208  6.17  98.51
+ ID2= 2 ( 0221): 14.91  0.561  6.50  25.32
=====
ID = 3 ( 0039): 15.79  0.614  6.50  29.40

```

3.083 2.99 | 6.167 85.26 | 9.250 2.99 |

Unit Hyd Qpeak (cms)= 4.137

PEAK FLOW (cms)= 1.461 (i)
 TIME TO PEAK (hrs)= 6.333
 RUNOFF VOLUME (mm)= 24.756
 TOTAL RAINFALL (mm)= 99.600
 RUNOFF COEFFICIENT = 0.249

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

1.667	2.59	4.750	6.77	7.833	5.58	10.92	2.19
1.750	2.59	4.833	6.77	7.917	5.58	11.00	2.19
1.833	2.59	4.917	6.77	8.000	5.58	11.08	2.19
1.917	2.59	5.000	6.77	8.083	5.58	11.17	2.19
2.000	2.59	5.083	6.77	8.167	5.58	11.25	1.99
2.083	2.59	5.167	6.77	8.250	4.38	11.33	1.99
2.167	2.59	5.250	10.76	8.333	4.38	11.42	1.99
2.250	3.39	5.333	10.76	8.417	4.38	11.50	1.99
2.333	3.39	5.417	10.76	8.500	4.38	11.58	1.99
2.417	3.39	5.500	10.76	8.583	4.38	11.67	1.99
2.500	3.39	5.583	10.76	8.667	4.38	11.75	1.99
2.583	3.39	5.667	10.76	8.750	4.58	11.83	1.99
2.667	3.39	5.750	85.26	8.833	4.58	11.92	1.99
2.750	2.99	5.833	85.26	8.917	4.58	12.00	1.99
2.833	2.99	5.917	85.26	9.000	4.58	12.08	1.99
2.917	2.99	6.000	85.26	9.083	4.58	12.17	1.99
3.000	2.99	6.083	85.26	9.167	4.58		
3.083	2.99	6.167	85.26	9.250	2.99		

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| CALIB |
| STANDHYD ( 0230) | Area (ha)= 3.07
| ID= 1 DT= 5.0 min | Total Imp(%)= 42.00 Dir. Conn.(%)= 42.00
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	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	1.29	1.78
Dep. Storage (mm)=	1.00	5.00
Average Slope (%)=	1.00	2.00
Length (m)=	143.00	40.00
Mannings n =	0.013	0.350

Max.Eff.Inten.(mm/hr)=	85.26	36.46
over (min)	5.00	20.00
Storage Coeff. (min)=	3.37 (ii)	16.31 (ii)
Unit Hyd. Tpeak (min)=	5.00	20.00
Unit Hyd. peak (cms)=	0.26	0.06

TOTALS

PEAK FLOW (cms)=	0.31	0.12	0.412 (iii)
TIME TO PEAK (hrs)=	6.17	6.33	6.17
RUNOFF VOLUME (mm)=	98.60	35.76	62.15
TOTAL RAINFALL (mm)=	99.60	99.60	99.60
RUNOFF COEFFICIENT =	0.99	0.36	0.62

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.99	6.250	21.71	9.33	2.99
0.167	0.00	3.250	3.98	6.333	21.71	9.42	2.99
0.250	2.99	3.333	3.98	6.417	21.71	9.50	2.99
0.333	2.99	3.417	3.98	6.500	21.71	9.58	2.99
0.417	2.99	3.500	3.98	6.583	21.71	9.67	2.99
0.500	2.99	3.583	3.98	6.667	21.71	9.75	2.39
0.583	2.99	3.667	3.98	6.750	9.56	9.83	2.39
0.667	2.99	3.750	3.98	6.833	9.56	9.92	2.39
0.750	1.39	3.833	3.98	6.917	9.56	10.00	2.39
0.833	1.39	3.917	3.98	7.000	9.56	10.08	2.39
0.917	1.39	4.000	3.98	7.083	9.56	10.17	2.39
1.000	1.39	4.083	3.98	7.167	9.56	10.25	3.39
1.083	1.39	4.167	3.98	7.250	6.37	10.33	3.39
1.167	1.39	4.250	5.38	7.333	6.37	10.42	3.39
1.250	2.59	4.333	5.38	7.417	6.37	10.50	3.39
1.333	2.59	4.417	5.38	7.500	6.37	10.58	3.39
1.417	2.59	4.500	5.38	7.583	6.37	10.67	3.39
1.500	2.59	4.583	5.38	7.667	6.37	10.75	2.19
1.583	2.59	4.667	5.38	7.750	5.58	10.83	2.19

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 62.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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-----
| ADD HYD ( 0042) |
| 1 + 2 = 3 |
-----
ID1= 1 ( 0230): 3.07 0.412 6.17 62.15
+ ID2= 2 ( 0231): 33.58 1.461 6.33 24.76
=====
ID = 3 ( 0042): 36.65 1.674 6.33 27.89
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NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

3.083 2.99 | 6.167 85.26 | 9.250 2.99 |

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-----
| CALIB |
| NASHYD ( 0241) | Area (ha)= 11.24 Curve Number (CN)= 56.0
| ID= 1 DT= 5.0 min | Ia (mm)= 22.20 # of Linear Res.(N)= 3.00
-----
| U.H. Tp(hrs)= 0.41

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

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-----
Unit Hyd Qpeak (cms)= 1.047
PEAK FLOW (cms)= 0.348 (i)
TIME TO PEAK (hrs)= 6.500
RUNOFF VOLUME (mm)= 21.627
TOTAL RAINFALL (mm)= 99.600
RUNOFF COEFFICIENT = 0.217

```

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.99	6.250	21.71	9.33	2.99
0.167	0.00	3.250	3.98	6.333	21.71	9.42	2.99
0.250	2.99	3.333	3.98	6.417	21.71	9.50	2.99
0.333	2.99	3.417	3.98	6.500	21.71	9.58	2.99
0.417	2.99	3.500	3.98	6.583	21.71	9.67	2.99
0.500	2.99	3.583	3.98	6.667	21.71	9.75	2.39
0.583	2.99	3.667	3.98	6.750	9.56	9.83	2.39
0.667	2.99	3.750	3.98	6.833	9.56	9.92	2.39
0.750	1.39	3.833	3.98	6.917	9.56	10.00	2.39
0.833	1.39	3.917	3.98	7.000	9.56	10.08	2.39
0.917	1.39	4.000	3.98	7.083	9.56	10.17	2.39
1.000	1.39	4.083	3.98	7.167	9.56	10.25	3.39
1.083	1.39	4.167	3.98	7.250	6.37	10.33	3.39
1.167	1.39	4.250	5.38	7.333	6.37	10.42	3.39
1.250	2.59	4.333	5.38	7.417	6.37	10.50	3.39
1.333	2.59	4.417	5.38	7.500	6.37	10.58	3.39
1.417	2.59	4.500	5.38	7.583	6.37	10.67	3.39
1.500	2.59	4.583	5.38	7.667	6.37	10.75	2.19
1.583	2.59	4.667	5.38	7.750	5.58	10.83	2.19
1.667	2.59	4.750	6.77	7.833	5.58	10.92	2.19
1.750	2.59	4.833	6.77	7.917	5.58	11.00	2.19
1.833	2.59	4.917	6.77	8.000	5.58	11.08	2.19
1.917	2.59	5.000	6.77	8.083	5.58	11.17	2.19
2.000	2.59	5.083	6.77	8.167	5.58	11.25	1.99
2.083	2.59	5.167	6.77	8.250	4.38	11.33	1.99
2.167	2.59	5.250	10.76	8.333	4.38	11.42	1.99
2.250	3.39	5.333	10.76	8.417	4.38	11.50	1.99
2.333	3.39	5.417	10.76	8.500	4.38	11.58	1.99
2.417	3.39	5.500	10.76	8.583	4.38	11.67	1.99
2.500	3.39	5.583	10.76	8.667	4.38	11.75	1.99
2.583	3.39	5.667	10.76	8.750	4.58	11.83	1.99
2.667	3.39	5.750	85.26	8.833	4.58	11.92	1.99
2.750	2.99	5.833	85.26	8.917	4.58	12.00	1.99
2.833	2.99	5.917	85.26	9.000	4.58	12.08	1.99
2.917	2.99	6.000	85.26	9.083	4.58	12.17	1.99
3.000	2.99	6.083	85.26	9.167	4.58		

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| CALIB |
| STANDHYD ( 0240) | Area (ha)= 0.88
| ID= 1 DT= 5.0 min | Total Imp(%)= 37.00 Dir. Conn.(%)= 37.00
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-----
IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 0.33 0.55
Dep. Storage (mm)= 1.00 5.00
Average Slope (%)= 1.00 2.00
Length (m)= 76.58 40.00
Mannings n = 0.013 0.350

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.99	6.250	21.71	9.33	2.99
0.167	0.00	3.250	3.98	6.333	21.71	9.42	2.99
0.250	2.99	3.333	3.98	6.417	21.71	9.50	2.99
0.333	2.99	3.417	3.98	6.500	21.71	9.58	2.99
0.417	2.99	3.500	3.98	6.583	21.71	9.67	2.99
0.500	2.99	3.583	3.98	6.667	21.71	9.75	2.39
0.583	2.99	3.667	3.98	6.750	9.56	9.83	2.39
0.667	2.99	3.750	3.98	6.833	9.56	9.92	2.39
0.750	1.39	3.833	3.98	6.917	9.56	10.00	2.39
0.833	1.39	3.917	3.98	7.000	9.56	10.08	2.39
0.917	1.39	4.000	3.98	7.083	9.56	10.17	2.39
1.000	1.39	4.083	3.98	7.167	9.56	10.25	3.39
1.083	1.39	4.167	3.98	7.250	6.37	10.33	3.39
1.167	1.39	4.250	5.38	7.333	6.37	10.42	3.39
1.250	2.59	4.333	5.38	7.417	6.37	10.50	3.39
1.333	2.59	4.417	5.38	7.500	6.37	10.58	3.39
1.417	2.59	4.500	5.38	7.583	6.37	10.67	3.39
1.500	2.59	4.583	5.38	7.667	6.37	10.75	2.19
1.583	2.59	4.667	5.38	7.750	5.58	10.83	2.19

1.667	2.59	4.750	6.77	7.833	5.58	10.92	2.19
1.750	2.59	4.833	6.77	7.917	5.58	11.00	2.19
1.833	2.59	4.917	6.77	8.000	5.58	11.08	2.19
1.917	2.59	5.000	6.77	8.083	5.58	11.17	2.19
2.000	2.59	5.083	6.77	8.167	5.58	11.25	1.99
2.083	2.59	5.167	6.77	8.250	4.38	11.33	1.99
2.167	2.59	5.250	10.76	8.333	4.38	11.42	1.99
2.250	3.39	5.333	10.76	8.417	4.38	11.50	1.99
2.333	3.39	5.417	10.76	8.500	4.38	11.58	1.99
2.417	3.39	5.500	10.76	8.583	4.38	11.67	1.99
2.500	3.39	5.583	10.76	8.667	4.38	11.75	1.99
2.583	3.39	5.667	10.76	8.750	4.58	11.83	1.99
2.667	3.39	5.750	85.26	8.833	4.58	11.92	1.99
2.750	2.99	5.833	85.26	8.917	4.58	12.00	1.99
2.833	2.99	5.917	85.26	9.000	4.58	12.08	1.99
2.917	2.99	6.000	85.26	9.083	4.58	12.17	1.99
3.000	2.99	6.083	85.26	9.167	4.58		
3.083	2.99	6.167	85.26	9.250	2.99		

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| CALIB |
| NASHYD ( 0251) | Area (ha)= 16.61 Curve Number (CN)= 51.0
| ID= 1 DT= 5.0 min | Ia (mm)= 24.70 # of Linear Res.(N)= 3.00
-----
U.H. Tp(hrs)= 0.51

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.99	6.250	21.71	9.33	2.99
0.167	0.00	3.250	3.98	6.333	21.71	9.42	2.99
0.250	2.99	3.333	3.98	6.417	21.71	9.50	2.99
0.333	2.99	3.417	3.98	6.500	21.71	9.58	2.99
0.417	2.99	3.500	3.98	6.583	21.71	9.67	2.99
0.500	2.99	3.583	3.98	6.667	21.71	9.75	2.39
0.583	2.99	3.667	3.98	6.750	9.56	9.83	2.39
0.667	2.99	3.750	3.98	6.833	9.56	9.92	2.39
0.750	1.39	3.833	3.98	6.917	9.56	10.00	2.39
0.833	1.39	3.917	3.98	7.000	9.56	10.08	2.39
0.917	1.39	4.000	3.98	7.083	9.56	10.17	2.39
1.000	1.39	4.083	3.98	7.167	9.56	10.25	3.39
1.083	1.39	4.167	3.98	7.250	6.37	10.33	3.39
1.167	1.39	4.250	5.38	7.333	6.37	10.42	3.39
1.250	2.59	4.333	5.38	7.417	6.37	10.50	3.39
1.333	2.59	4.417	5.38	7.500	6.37	10.58	3.39
1.417	2.59	4.500	5.38	7.583	6.37	10.67	3.39
1.500	2.59	4.583	5.38	7.667	6.37	10.75	2.19
1.583	2.59	4.667	5.38	7.750	5.58	10.83	2.19
1.667	2.59	4.750	6.77	7.833	5.58	10.92	2.19
1.750	2.59	4.833	6.77	7.917	5.58	11.00	2.19
1.833	2.59	4.917	6.77	8.000	5.58	11.08	2.19
1.917	2.59	5.000	6.77	8.083	5.58	11.17	2.19
2.000	2.59	5.083	6.77	8.167	5.58	11.25	1.99
2.083	2.59	5.167	6.77	8.250	4.38	11.33	1.99
2.167	2.59	5.250	10.76	8.333	4.38	11.42	1.99
2.250	3.39	5.333	10.76	8.417	4.38	11.50	1.99
2.333	3.39	5.417	10.76	8.500	4.38	11.58	1.99
2.417	3.39	5.500	10.76	8.583	4.38	11.67	1.99
2.500	3.39	5.583	10.76	8.667	4.38	11.75	1.99
2.583	3.39	5.667	10.76	8.750	4.58	11.83	1.99
2.667	3.39	5.750	85.26	8.833	4.58	11.92	1.99
2.750	2.99	5.833	85.26	8.917	4.58	12.00	1.99
2.833	2.99	5.917	85.26	9.000	4.58	12.08	1.99
2.917	2.99	6.000	85.26	9.083	4.58	12.17	1.99
3.000	2.99	6.083	85.26	9.167	4.58		

Max.Eff.Inten.(mm/hr)= 85.26 29.93
over (min) 5.00 20.00
Storage Coeff. (min)= 2.32 (ii) 16.31 (ii)
Unit Hyd. Tpeak (min)= 5.00 20.00
Unit Hyd. peak (cms)= 0.30 0.06

TOTALS

PEAK FLOW (cms)= 0.08 0.03 0.104 (iii)
TIME TO PEAK (hrs)= 6.17 6.33 6.17
RUNOFF VOLUME (mm)= 98.60 29.59 55.12
TOTAL RAINFALL (mm)= 99.60 99.60 99.60
RUNOFF COEFFICIENT = 0.99 0.30 0.55

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 55.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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-----
| ADD HYD ( 0045) |
| 1 + 2 = 3 |
-----
AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)
ID1= 1 ( 0240): 0.88 0.104 6.17 55.12
+ ID2= 2 ( 0241): 11.24 0.348 6.50 21.63
=====
ID = 3 ( 0045): 12.12 0.393 6.50 24.06

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3.083 2.99 | 6.167 85.26 | 9.250 2.99 |

Unit Hyd Qpeak (cms)= 1.244

PEAK FLOW (cms)= 0.359 (i)
 TIME TO PEAK (hrs)= 6.750
 RUNOFF VOLUME (mm)= 17.589
 TOTAL RAINFALL (mm)= 99.600
 RUNOFF COEFFICIENT = 0.177

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

1.667	2.59	4.750	6.77	7.833	5.58	10.92	2.19
1.750	2.59	4.833	6.77	7.917	5.58	11.00	2.19
1.833	2.59	4.917	6.77	8.000	5.58	11.08	2.19
1.917	2.59	5.000	6.77	8.083	5.58	11.17	2.19
2.000	2.59	5.083	6.77	8.167	5.58	11.25	1.99
2.083	2.59	5.167	6.77	8.250	4.38	11.33	1.99
2.167	2.59	5.250	10.76	8.333	4.38	11.42	1.99
2.250	3.39	5.333	10.76	8.417	4.38	11.50	1.99
2.333	3.39	5.417	10.76	8.500	4.38	11.58	1.99
2.417	3.39	5.500	10.76	8.583	4.38	11.67	1.99
2.500	3.39	5.583	10.76	8.667	4.38	11.75	1.99
2.583	3.39	5.667	10.76	8.750	4.58	11.83	1.99
2.667	3.39	5.750	85.26	8.833	4.58	11.92	1.99
2.750	2.99	5.833	85.26	8.917	4.58	12.00	1.99
2.833	2.99	5.917	85.26	9.000	4.58	12.08	1.99
2.917	2.99	6.000	85.26	9.083	4.58	12.17	1.99
3.000	2.99	6.083	85.26	9.167	4.58		
3.083	2.99	6.167	85.26	9.250	2.99		

 | CALIB |
 | STANDHYD (0250) | Area (ha)= 0.93
 | ID= 1 DT= 5.0 min | Total Imp(%)= 26.00 Dir. Conn.(%)= 26.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.24	0.69
Dep. Storage (mm)=	1.00	5.00
Average Slope (%)=	1.00	2.00
Length (m)=	78.76	40.00
Mannings n =	0.013	0.350

Max.Eff.Inten.(mm/hr)=	85.26	38.51
over (min)	5.00	20.00
Storage Coeff. (min)=	2.36 (ii)	15.01 (ii)
Unit Hyd. Tpeak (min)=	5.00	20.00
Unit Hyd. peak (cms)=	0.30	0.07

TOTALS

PEAK FLOW (cms)=	0.06	0.05	0.103 (iii)
TIME TO PEAK (hrs)=	6.17	6.33	6.17
RUNOFF VOLUME (mm)=	98.60	37.68	53.51
TOTAL RAINFALL (mm)=	99.60	99.60	99.60
RUNOFF COEFFICIENT =	0.99	0.38	0.54

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.99	6.250	21.71	9.33	2.99
0.167	0.00	3.250	3.98	6.333	21.71	9.42	2.99
0.250	2.99	3.333	3.98	6.417	21.71	9.50	2.99
0.333	2.99	3.417	3.98	6.500	21.71	9.58	2.99
0.417	2.99	3.500	3.98	6.583	21.71	9.67	2.99
0.500	2.99	3.583	3.98	6.667	21.71	9.75	2.39
0.583	2.99	3.667	3.98	6.750	9.56	9.83	2.39
0.667	2.99	3.750	3.98	6.833	9.56	9.92	2.39
0.750	1.39	3.833	3.98	6.917	9.56	10.00	2.39
0.833	1.39	3.917	3.98	7.000	9.56	10.08	2.39
0.917	1.39	4.000	3.98	7.083	9.56	10.17	2.39
1.000	1.39	4.083	3.98	7.167	9.56	10.25	3.39
1.083	1.39	4.167	3.98	7.250	6.37	10.33	3.39
1.167	1.39	4.250	5.38	7.333	6.37	10.42	3.39
1.250	2.59	4.333	5.38	7.417	6.37	10.50	3.39
1.333	2.59	4.417	5.38	7.500	6.37	10.58	3.39
1.417	2.59	4.500	5.38	7.583	6.37	10.67	3.39
1.500	2.59	4.583	5.38	7.667	6.37	10.75	2.19
1.583	2.59	4.667	5.38	7.750	5.58	10.83	2.19

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
 CN* = 64.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | ADD HYD (0048) |
 | 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)
 ID1= 1 (0250): 0.93 0.103 6.17 53.51
 + ID2= 2 (0251): 16.61 0.359 6.75 17.59
 =====
 ID = 3 (0048): 17.54 0.405 6.67 19.49
 =====

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

3.083 2.99 | 6.167 85.26 | 9.250 2.99 |

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-----
| CALIB |
| NASHYD ( 0261) | Area (ha)= 35.85 Curve Number (CN)= 59.0
| ID= 1 DT= 5.0 min | Ia (mm)= 18.50 # of Linear Res.(N)= 3.00
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U.H. Tp(hrs)= 1.24
  
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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

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Unit Hyd Qpeak (cms)= 1.104
PEAK FLOW (cms)= 0.668 (i)
TIME TO PEAK (hrs)= 7.583
RUNOFF VOLUME (mm)= 25.532
TOTAL RAINFALL (mm)= 99.600
RUNOFF COEFFICIENT = 0.256
  
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(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.99	6.250	21.71	9.33	2.99
0.167	0.00	3.250	3.98	6.333	21.71	9.42	2.99
0.250	2.99	3.333	3.98	6.417	21.71	9.50	2.99
0.333	2.99	3.417	3.98	6.500	21.71	9.58	2.99
0.417	2.99	3.500	3.98	6.583	21.71	9.67	2.99
0.500	2.99	3.583	3.98	6.667	21.71	9.75	2.39
0.583	2.99	3.667	3.98	6.750	9.56	9.83	2.39
0.667	2.99	3.750	3.98	6.833	9.56	9.92	2.39
0.750	1.39	3.833	3.98	6.917	9.56	10.00	2.39
0.833	1.39	3.917	3.98	7.000	9.56	10.08	2.39
0.917	1.39	4.000	3.98	7.083	9.56	10.17	2.39
1.000	1.39	4.083	3.98	7.167	9.56	10.25	3.39
1.083	1.39	4.167	3.98	7.250	6.37	10.33	3.39
1.167	1.39	4.250	5.38	7.333	6.37	10.42	3.39
1.250	2.59	4.333	5.38	7.417	6.37	10.50	3.39
1.333	2.59	4.417	5.38	7.500	6.37	10.58	3.39
1.417	2.59	4.500	5.38	7.583	6.37	10.67	3.39
1.500	2.59	4.583	5.38	7.667	6.37	10.75	2.19
1.583	2.59	4.667	5.38	7.750	5.58	10.83	2.19
1.667	2.59	4.750	6.77	7.833	5.58	10.92	2.19
1.750	2.59	4.833	6.77	7.917	5.58	11.00	2.19
1.833	2.59	4.917	6.77	8.000	5.58	11.08	2.19
1.917	2.59	5.000	6.77	8.083	5.58	11.17	2.19
2.000	2.59	5.083	6.77	8.167	5.58	11.25	1.99
2.083	2.59	5.167	6.77	8.250	4.38	11.33	1.99
2.167	2.59	5.250	10.76	8.333	4.38	11.42	1.99
2.250	3.39	5.333	10.76	8.417	4.38	11.50	1.99
2.333	3.39	5.417	10.76	8.500	4.38	11.58	1.99
2.417	3.39	5.500	10.76	8.583	4.38	11.67	1.99
2.500	3.39	5.583	10.76	8.667	4.38	11.75	1.99
2.583	3.39	5.667	10.76	8.750	4.58	11.83	1.99
2.667	3.39	5.750	85.26	8.833	4.58	11.92	1.99
2.750	2.99	5.833	85.26	8.917	4.58	12.00	1.99
2.833	2.99	5.917	85.26	9.000	4.58	12.08	1.99
2.917	2.99	6.000	85.26	9.083	4.58	12.17	1.99
3.000	2.99	6.083	85.26	9.167	4.58		

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| CALIB |
| STANDHYD ( 0260) | Area (ha)= 3.40
| ID= 1 DT= 5.0 min | Total Imp(%)= 27.00 Dir. Conn.(%)= 27.00
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IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 0.92 2.48
Dep. Storage (mm)= 1.00 5.00
Average Slope (%)= 1.00 2.00
Length (m)= 150.51 40.00
Mannings n = 0.013 0.350
  
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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.99	6.250	21.71	9.33	2.99
0.167	0.00	3.250	3.98	6.333	21.71	9.42	2.99
0.250	2.99	3.333	3.98	6.417	21.71	9.50	2.99
0.333	2.99	3.417	3.98	6.500	21.71	9.58	2.99
0.417	2.99	3.500	3.98	6.583	21.71	9.67	2.99
0.500	2.99	3.583	3.98	6.667	21.71	9.75	2.39
0.583	2.99	3.667	3.98	6.750	9.56	9.83	2.39
0.667	2.99	3.750	3.98	6.833	9.56	9.92	2.39
0.750	1.39	3.833	3.98	6.917	9.56	10.00	2.39
0.833	1.39	3.917	3.98	7.000	9.56	10.08	2.39
0.917	1.39	4.000	3.98	7.083	9.56	10.17	2.39
1.000	1.39	4.083	3.98	7.167	9.56	10.25	3.39
1.083	1.39	4.167	3.98	7.250	6.37	10.33	3.39
1.167	1.39	4.250	5.38	7.333	6.37	10.42	3.39
1.250	2.59	4.333	5.38	7.417	6.37	10.50	3.39
1.333	2.59	4.417	5.38	7.500	6.37	10.58	3.39
1.417	2.59	4.500	5.38	7.583	6.37	10.67	3.39
1.500	2.59	4.583	5.38	7.667	6.37	10.75	2.19
1.583	2.59	4.667	5.38	7.750	5.58	10.83	2.19

1.667	2.59	4.750	6.77	7.833	5.58	10.92	2.19
1.750	2.59	4.833	6.77	7.917	5.58	11.00	2.19
1.833	2.59	4.917	6.77	8.000	5.58	11.08	2.19
1.917	2.59	5.000	6.77	8.083	5.58	11.17	2.19
2.000	2.59	5.083	6.77	8.167	5.58	11.25	1.99
2.083	2.59	5.167	6.77	8.250	4.38	11.33	1.99
2.167	2.59	5.250	10.76	8.333	4.38	11.42	1.99
2.250	3.39	5.333	10.76	8.417	4.38	11.50	1.99
2.333	3.39	5.417	10.76	8.500	4.38	11.58	1.99
2.417	3.39	5.500	10.76	8.583	4.38	11.67	1.99
2.500	3.39	5.583	10.76	8.667	4.38	11.75	1.99
2.583	3.39	5.667	10.76	8.750	4.58	11.83	1.99
2.667	3.39	5.750	85.26	8.833	4.58	11.92	1.99
2.750	2.99	5.833	85.26	8.917	4.58	12.00	1.99
2.833	2.99	5.917	85.26	9.000	4.58	12.08	1.99
2.917	2.99	6.000	85.26	9.083	4.58	12.17	1.99
3.000	2.99	6.083	85.26	9.167	4.58		
3.083	2.99	6.167	85.26	9.250	2.99		

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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| CALIB |
| NASHYD ( 0271) | Area (ha)= 26.76 Curve Number (CN)= 59.0
| ID= 1 DT= 5.0 min | Ia (mm)= 18.90 # of Linear Res.(N)= 3.00
-----
U.H. Tp(hrs)= 0.23

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

Max.Eff.Inten.(mm/hr)= 85.26 52.88
over (min) 5.00 15.00
Storage Coeff. (min)= 3.48 (ii) 14.62 (ii)
Unit Hyd. Tpeak (min)= 5.00 15.00
Unit Hyd. peak (cms)= 0.26 0.08

TOTALS

PEAK FLOW (cms)= 0.22 0.27 0.480 (iii)
TIME TO PEAK (hrs)= 6.17 6.25 6.17
RUNOFF VOLUME (mm)= 98.60 51.19 63.99
TOTAL RAINFALL (mm)= 99.60 99.60
RUNOFF COEFFICIENT = 0.99 0.51 0.64

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 76.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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-----
| ADD HYD ( 0051) |
| 1 + 2 = 3 |
-----
          AREA   QPEAK   TPEAK   R.V.
          (ha)   (cms)   (hrs)   (mm)
ID1= 1 ( 0260):  3.40  0.480  6.17  63.99
+ ID2= 2 ( 0261): 35.85  0.668  7.58  25.53
=====
ID = 3 ( 0051):  39.25  0.725  7.50  28.86

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----- TRANSFORMED HYETOGRAPH -----

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TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.99	6.250	21.71	9.33	2.99
0.167	0.00	3.250	3.98	6.333	21.71	9.42	2.99
0.250	2.99	3.333	3.98	6.417	21.71	9.50	2.99
0.333	2.99	3.417	3.98	6.500	21.71	9.58	2.99
0.417	2.99	3.500	3.98	6.583	21.71	9.67	2.99
0.500	2.99	3.583	3.98	6.667	21.71	9.75	2.39
0.583	2.99	3.667	3.98	6.750	9.56	9.83	2.39
0.667	2.99	3.750	3.98	6.833	9.56	9.92	2.39
0.750	1.39	3.833	3.98	6.917	9.56	10.00	2.39
0.833	1.39	3.917	3.98	7.000	9.56	10.08	2.39
0.917	1.39	4.000	3.98	7.083	9.56	10.17	2.39
1.000	1.39	4.083	3.98	7.167	9.56	10.25	3.39
1.083	1.39	4.167	3.98	7.250	6.37	10.33	3.39
1.167	1.39	4.250	5.38	7.333	6.37	10.42	3.39
1.250	2.59	4.333	5.38	7.417	6.37	10.50	3.39
1.333	2.59	4.417	5.38	7.500	6.37	10.58	3.39
1.417	2.59	4.500	5.38	7.583	6.37	10.67	3.39
1.500	2.59	4.583	5.38	7.667	6.37	10.75	2.19
1.583	2.59	4.667	5.38	7.750	5.58	10.83	2.19
1.667	2.59	4.750	6.77	7.833	5.58	10.92	2.19
1.750	2.59	4.833	6.77	7.917	5.58	11.00	2.19
1.833	2.59	4.917	6.77	8.000	5.58	11.08	2.19
1.917	2.59	5.000	6.77	8.083	5.58	11.17	2.19
2.000	2.59	5.083	6.77	8.167	5.58	11.25	1.99
2.083	2.59	5.167	6.77	8.250	4.38	11.33	1.99
2.167	2.59	5.250	10.76	8.333	4.38	11.42	1.99
2.250	3.39	5.333	10.76	8.417	4.38	11.50	1.99
2.333	3.39	5.417	10.76	8.500	4.38	11.58	1.99
2.417	3.39	5.500	10.76	8.583	4.38	11.67	1.99
2.500	3.39	5.583	10.76	8.667	4.38	11.75	1.99
2.583	3.39	5.667	10.76	8.750	4.58	11.83	1.99
2.667	3.39	5.750	85.26	8.833	4.58	11.92	1.99
2.750	2.99	5.833	85.26	8.917	4.58	12.00	1.99
2.833	2.99	5.917	85.26	9.000	4.58	12.08	1.99
2.917	2.99	6.000	85.26	9.083	4.58	12.17	1.99
3.000	2.99	6.083	85.26	9.167	4.58		

3.083 2.99 | 6.167 85.26 | 9.250 2.99 |

Unit Hyd Qpeak (cms)= 4.444

PEAK FLOW (cms)= 1.417 (i)
 TIME TO PEAK (hrs)= 6.250
 RUNOFF VOLUME (mm)= 25.292
 TOTAL RAINFALL (mm)= 99.600
 RUNOFF COEFFICIENT = 0.254

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

1.667	2.59	4.750	6.77	7.833	5.58	10.92	2.19
1.750	2.59	4.833	6.77	7.917	5.58	11.00	2.19
1.833	2.59	4.917	6.77	8.000	5.58	11.08	2.19
1.917	2.59	5.000	6.77	8.083	5.58	11.17	2.19
2.000	2.59	5.083	6.77	8.167	5.58	11.25	1.99
2.083	2.59	5.167	6.77	8.250	4.38	11.33	1.99
2.167	2.59	5.250	10.76	8.333	4.38	11.42	1.99
2.250	3.39	5.333	10.76	8.417	4.38	11.50	1.99
2.333	3.39	5.417	10.76	8.500	4.38	11.58	1.99
2.417	3.39	5.500	10.76	8.583	4.38	11.67	1.99
2.500	3.39	5.583	10.76	8.667	4.38	11.75	1.99
2.583	3.39	5.667	10.76	8.750	4.58	11.83	1.99
2.667	3.39	5.750	85.26	8.833	4.58	11.92	1.99
2.750	2.99	5.833	85.26	8.917	4.58	12.00	1.99
2.833	2.99	5.917	85.26	9.000	4.58	12.08	1.99
2.917	2.99	6.000	85.26	9.083	4.58	12.17	1.99
3.000	2.99	6.083	85.26	9.167	4.58		
3.083	2.99	6.167	85.26	9.250	2.99		

 | CALIB |
 | STANDHYD (0270) | Area (ha)= 3.95
 | ID= 1 DT= 5.0 min | Total Imp(%)= 31.00 Dir. Conn.(%)= 31.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	1.22	2.73
Dep. Storage (mm)=	1.00	5.00
Average Slope (%)=	1.00	2.00
Length (m)=	162.31	40.00
Mannings n =	0.013	0.350

Max.Eff.Inten.(mm/hr)=	85.26	31.70
over (min)	5.00	20.00
Storage Coeff. (min)=	3.64 (ii)	17.32 (ii)
Unit Hyd. Tpeak (min)=	5.00	20.00
Unit Hyd. peak (cms)=	0.25	0.06

TOTALS

PEAK FLOW (cms)=	0.29	0.16	0.426 (iii)
TIME TO PEAK (hrs)=	6.17	6.33	6.17
RUNOFF VOLUME (mm)=	98.60	31.27	52.14
TOTAL RAINFALL (mm)=	99.60	99.60	99.60
RUNOFF COEFFICIENT =	0.99	0.31	0.52

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.99	6.250	21.71	9.33	2.99
0.167	0.00	3.250	3.98	6.333	21.71	9.42	2.99
0.250	2.99	3.333	3.98	6.417	21.71	9.50	2.99
0.333	2.99	3.417	3.98	6.500	21.71	9.58	2.99
0.417	2.99	3.500	3.98	6.583	21.71	9.67	2.99
0.500	2.99	3.583	3.98	6.667	21.71	9.75	2.39
0.583	2.99	3.667	3.98	6.750	9.56	9.83	2.39
0.667	2.99	3.750	3.98	6.833	9.56	9.92	2.39
0.750	1.39	3.833	3.98	6.917	9.56	10.00	2.39
0.833	1.39	3.917	3.98	7.000	9.56	10.08	2.39
0.917	1.39	4.000	3.98	7.083	9.56	10.17	2.39
1.000	1.39	4.083	3.98	7.167	9.56	10.25	3.39
1.083	1.39	4.167	3.98	7.250	6.37	10.33	3.39
1.167	1.39	4.250	5.38	7.333	6.37	10.42	3.39
1.250	2.59	4.333	5.38	7.417	6.37	10.50	3.39
1.333	2.59	4.417	5.38	7.500	6.37	10.58	3.39
1.417	2.59	4.500	5.38	7.583	6.37	10.67	3.39
1.500	2.59	4.583	5.38	7.667	6.37	10.75	2.19
1.583	2.59	4.667	5.38	7.750	5.58	10.83	2.19

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
 CN* = 57.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | ADD HYD (0054) |
 | 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)
 ID1= 1 (0270): 3.95 0.426 6.17 52.14
 + ID2= 2 (0271): 26.76 1.417 6.25 25.29
 =====
 ID = 3 (0054): 30.71 1.713 6.17 28.74

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

3.083 2.99 | 6.167 85.26 | 9.250 2.99 |

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-----
| CALIB |
| NASHYD ( 0281) | Area (ha)= 6.71 Curve Number (CN)= 67.0
| ID= 1 DT= 5.0 min | Ia (mm)= 12.90 # of Linear Res.(N)= 3.00
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| U.H. Tp(hrs)= 0.43

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

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Unit Hyd Qpeak (cms)= 0.596
PEAK FLOW (cms)= 0.364 (i)
TIME TO PEAK (hrs)= 6.500
RUNOFF VOLUME (mm)= 35.486
TOTAL RAINFALL (mm)= 99.600
RUNOFF COEFFICIENT = 0.356

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(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.99	6.250	21.71	9.33	2.99
0.167	0.00	3.250	3.98	6.333	21.71	9.42	2.99
0.250	2.99	3.333	3.98	6.417	21.71	9.50	2.99
0.333	2.99	3.417	3.98	6.500	21.71	9.58	2.99
0.417	2.99	3.500	3.98	6.583	21.71	9.67	2.99
0.500	2.99	3.583	3.98	6.667	21.71	9.75	2.39
0.583	2.99	3.667	3.98	6.750	9.56	9.83	2.39
0.667	2.99	3.750	3.98	6.833	9.56	9.92	2.39
0.750	1.39	3.833	3.98	6.917	9.56	10.00	2.39
0.833	1.39	3.917	3.98	7.000	9.56	10.08	2.39
0.917	1.39	4.000	3.98	7.083	9.56	10.17	2.39
1.000	1.39	4.083	3.98	7.167	9.56	10.25	3.39
1.083	1.39	4.167	3.98	7.250	6.37	10.33	3.39
1.167	1.39	4.250	5.38	7.333	6.37	10.42	3.39
1.250	2.59	4.333	5.38	7.417	6.37	10.50	3.39
1.333	2.59	4.417	5.38	7.500	6.37	10.58	3.39
1.417	2.59	4.500	5.38	7.583	6.37	10.67	3.39
1.500	2.59	4.583	5.38	7.667	6.37	10.75	2.19
1.583	2.59	4.667	5.38	7.750	5.58	10.83	2.19
1.667	2.59	4.750	6.77	7.833	5.58	10.92	2.19
1.750	2.59	4.833	6.77	7.917	5.58	11.00	2.19
1.833	2.59	4.917	6.77	8.000	5.58	11.08	2.19
1.917	2.59	5.000	6.77	8.083	5.58	11.17	2.19
2.000	2.59	5.083	6.77	8.167	5.58	11.25	1.99
2.083	2.59	5.167	6.77	8.250	4.38	11.33	1.99
2.167	2.59	5.250	10.76	8.333	4.38	11.42	1.99
2.250	3.39	5.333	10.76	8.417	4.38	11.50	1.99
2.333	3.39	5.417	10.76	8.500	4.38	11.58	1.99
2.417	3.39	5.500	10.76	8.583	4.38	11.67	1.99
2.500	3.39	5.583	10.76	8.667	4.38	11.75	1.99
2.583	3.39	5.667	10.76	8.750	4.58	11.83	1.99
2.667	3.39	5.750	85.26	8.833	4.58	11.92	1.99
2.750	2.99	5.833	85.26	8.917	4.58	12.00	1.99
2.833	2.99	5.917	85.26	9.000	4.58	12.08	1.99
2.917	2.99	6.000	85.26	9.083	4.58	12.17	1.99
3.000	2.99	6.083	85.26	9.167	4.58		

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| CALIB |
| STANDHYD ( 0280) | Area (ha)= 0.90
| ID= 1 DT= 5.0 min | Total Imp(%)= 51.00 Dir. Conn.(%)= 51.00
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IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 0.46 0.44
Dep. Storage (mm)= 1.00 5.00
Average Slope (%)= 1.00 2.00
Length (m)= 77.64 40.00
Mannings n = 0.013 0.350

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.99	6.250	21.71	9.33	2.99
0.167	0.00	3.250	3.98	6.333	21.71	9.42	2.99
0.250	2.99	3.333	3.98	6.417	21.71	9.50	2.99
0.333	2.99	3.417	3.98	6.500	21.71	9.58	2.99
0.417	2.99	3.500	3.98	6.583	21.71	9.67	2.99
0.500	2.99	3.583	3.98	6.667	21.71	9.75	2.39
0.583	2.99	3.667	3.98	6.750	9.56	9.83	2.39
0.667	2.99	3.750	3.98	6.833	9.56	9.92	2.39
0.750	1.39	3.833	3.98	6.917	9.56	10.00	2.39
0.833	1.39	3.917	3.98	7.000	9.56	10.08	2.39
0.917	1.39	4.000	3.98	7.083	9.56	10.17	2.39
1.000	1.39	4.083	3.98	7.167	9.56	10.25	3.39
1.083	1.39	4.167	3.98	7.250	6.37	10.33	3.39
1.167	1.39	4.250	5.38	7.333	6.37	10.42	3.39
1.250	2.59	4.333	5.38	7.417	6.37	10.50	3.39
1.333	2.59	4.417	5.38	7.500	6.37	10.58	3.39
1.417	2.59	4.500	5.38	7.583	6.37	10.67	3.39
1.500	2.59	4.583	5.38	7.667	6.37	10.75	2.19
1.583	2.59	4.667	5.38	7.750	5.58	10.83	2.19

1.667	2.59	4.750	6.77	7.833	5.58	10.92	2.19
1.750	2.59	4.833	6.77	7.917	5.58	11.00	2.19
1.833	2.59	4.917	6.77	8.000	5.58	11.08	2.19
1.917	2.59	5.000	6.77	8.083	5.58	11.17	2.19
2.000	2.59	5.083	6.77	8.167	5.58	11.25	1.99
2.083	2.59	5.167	6.77	8.250	4.38	11.33	1.99
2.167	2.59	5.250	10.76	8.333	4.38	11.42	1.99
2.250	3.39	5.333	10.76	8.417	4.38	11.50	1.99
2.333	3.39	5.417	10.76	8.500	4.38	11.58	1.99
2.417	3.39	5.500	10.76	8.583	4.38	11.67	1.99
2.500	3.39	5.583	10.76	8.667	4.38	11.75	1.99
2.583	3.39	5.667	10.76	8.750	4.58	11.83	1.99
2.667	3.39	5.750	85.26	8.833	4.58	11.92	1.99
2.750	2.99	5.833	85.26	8.917	4.58	12.00	1.99
2.833	2.99	5.917	85.26	9.000	4.58	12.08	1.99
2.917	2.99	6.000	85.26	9.083	4.58	12.17	1.99
3.000	2.99	6.083	85.26	9.167	4.58		
3.083	2.99	6.167	85.26	9.250	2.99		

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| CALIB |
| NASHYD ( 0201) | Area (ha)= 30.53 Curve Number (CN)= 71.0
| ID= 1 DT= 5.0 min | Ia (mm)= 10.70 # of Linear Res.(N)= 3.00
-----
U.H. Tp(hrs)= 0.78

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.99	6.250	21.71	9.33	2.99
0.167	0.00	3.250	3.98	6.333	21.71	9.42	2.99
0.250	2.99	3.333	3.98	6.417	21.71	9.50	2.99
0.333	2.99	3.417	3.98	6.500	21.71	9.58	2.99
0.417	2.99	3.500	3.98	6.583	21.71	9.67	2.99
0.500	2.99	3.583	3.98	6.667	21.71	9.75	2.39
0.583	2.99	3.667	3.98	6.750	9.56	9.83	2.39
0.667	2.99	3.750	3.98	6.833	9.56	9.92	2.39
0.750	1.39	3.833	3.98	6.917	9.56	10.00	2.39
0.833	1.39	3.917	3.98	7.000	9.56	10.08	2.39
0.917	1.39	4.000	3.98	7.083	9.56	10.17	2.39
1.000	1.39	4.083	3.98	7.167	9.56	10.25	3.39
1.083	1.39	4.167	3.98	7.250	6.37	10.33	3.39
1.167	1.39	4.250	5.38	7.333	6.37	10.42	3.39
1.250	2.59	4.333	5.38	7.417	6.37	10.50	3.39
1.333	2.59	4.417	5.38	7.500	6.37	10.58	3.39
1.417	2.59	4.500	5.38	7.583	6.37	10.67	3.39
1.500	2.59	4.583	5.38	7.667	6.37	10.75	2.19
1.583	2.59	4.667	5.38	7.750	5.58	10.83	2.19
1.667	2.59	4.750	6.77	7.833	5.58	10.92	2.19
1.750	2.59	4.833	6.77	7.917	5.58	11.00	2.19
1.833	2.59	4.917	6.77	8.000	5.58	11.08	2.19
1.917	2.59	5.000	6.77	8.083	5.58	11.17	2.19
2.000	2.59	5.083	6.77	8.167	5.58	11.25	1.99
2.083	2.59	5.167	6.77	8.250	4.38	11.33	1.99
2.167	2.59	5.250	10.76	8.333	4.38	11.42	1.99
2.250	3.39	5.333	10.76	8.417	4.38	11.50	1.99
2.333	3.39	5.417	10.76	8.500	4.38	11.58	1.99
2.417	3.39	5.500	10.76	8.583	4.38	11.67	1.99
2.500	3.39	5.583	10.76	8.667	4.38	11.75	1.99
2.583	3.39	5.667	10.76	8.750	4.58	11.83	1.99
2.667	3.39	5.750	85.26	8.833	4.58	11.92	1.99
2.750	2.99	5.833	85.26	8.917	4.58	12.00	1.99
2.833	2.99	5.917	85.26	9.000	4.58	12.08	1.99
2.917	2.99	6.000	85.26	9.083	4.58	12.17	1.99
3.000	2.99	6.083	85.26	9.167	4.58		

Max.Eff.Inten.(mm/hr)= 85.26 47.67
over (min) 5.00 15.00
Storage Coeff. (min)= 2.34 (ii) 13.95 (ii)
Unit Hyd. Tpeak (min)= 5.00 15.00
Unit Hyd. peak (cms)= 0.30 0.08

TOTALS

PEAK FLOW (cms)= 0.11 0.04 0.151 (iii)
TIME TO PEAK (hrs)= 6.17 6.25 6.17
RUNOFF VOLUME (mm)= 98.60 46.28 72.95
TOTAL RAINFALL (mm)= 99.60 99.60
RUNOFF COEFFICIENT = 0.99 0.46 0.73

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 72.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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-----
| ADD HYD ( 0057) |
| 1 + 2 = 3 |
-----
          AREA   QPEAK   TPEAK   R.V.
          (ha)   (cms)   (hrs)   (mm)
-----
ID1= 1 ( 0280):  0.90  0.151  6.17  72.95
+ ID2= 2 ( 0281):  6.71  0.364  6.50  35.49
=====
ID = 3 ( 0057):  7.61  0.422  6.42  39.92

```

3.083 2.99 | 6.167 85.26 | 9.250 2.99 |

Unit Hyd Qpeak (cms)= 1.495

PEAK FLOW (cms)= 1.344 (i)
 TIME TO PEAK (hrs)= 6.917
 RUNOFF VOLUME (mm)= 41.024
 TOTAL RAINFALL (mm)= 99.600
 RUNOFF COEFFICIENT = 0.412

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

1.667	2.59	4.750	6.77	7.833	5.58	10.92	2.19
1.750	2.59	4.833	6.77	7.917	5.58	11.00	2.19
1.833	2.59	4.917	6.77	8.000	5.58	11.08	2.19
1.917	2.59	5.000	6.77	8.083	5.58	11.17	2.19
2.000	2.59	5.083	6.77	8.167	5.58	11.25	1.99
2.083	2.59	5.167	6.77	8.250	4.38	11.33	1.99
2.167	2.59	5.250	10.76	8.333	4.38	11.42	1.99
2.250	3.39	5.333	10.76	8.417	4.38	11.50	1.99
2.333	3.39	5.417	10.76	8.500	4.38	11.58	1.99
2.417	3.39	5.500	10.76	8.583	4.38	11.67	1.99
2.500	3.39	5.583	10.76	8.667	4.38	11.75	1.99
2.583	3.39	5.667	10.76	8.750	4.58	11.83	1.99
2.667	3.39	5.750	85.26	8.833	4.58	11.92	1.99
2.750	2.99	5.833	85.26	8.917	4.58	12.00	1.99
2.833	2.99	5.917	85.26	9.000	4.58	12.08	1.99
2.917	2.99	6.000	85.26	9.083	4.58	12.17	1.99
3.000	2.99	6.083	85.26	9.167	4.58		
3.083	2.99	6.167	85.26	9.250	2.99		

 | CALIB |
 | STANDHYD (0200) | Area (ha)= 5.18
 | ID= 1 DT= 5.0 min | Total Imp(%)= 33.00 Dir. Conn.(%)= 33.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	1.71	3.47
Dep. Storage (mm)=	1.00	5.00
Average Slope (%)=	1.00	2.00
Length (m)=	185.83	40.00
Mannings n =	0.013	0.350

Max.Eff.Inten.(mm/hr)=	85.26	47.67
over (min)	5.00	20.00
Storage Coeff. (min)=	3.95 (ii)	15.56 (ii)
Unit Hyd. Tpeak (min)=	5.00	20.00
Unit Hyd. peak (cms)=	0.24	0.07

TOTALS

PEAK FLOW (cms)=	0.40	0.32	0.691 (iii)
TIME TO PEAK (hrs)=	6.17	6.33	6.17
RUNOFF VOLUME (mm)=	98.60	46.28	63.54
TOTAL RAINFALL (mm)=	99.60	99.60	99.60
RUNOFF COEFFICIENT =	0.99	0.46	0.64

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.99	6.250	21.71	9.33	2.99
0.167	0.00	3.250	3.98	6.333	21.71	9.42	2.99
0.250	2.99	3.333	3.98	6.417	21.71	9.50	2.99
0.333	2.99	3.417	3.98	6.500	21.71	9.58	2.99
0.417	2.99	3.500	3.98	6.583	21.71	9.67	2.99
0.500	2.99	3.583	3.98	6.667	21.71	9.75	2.39
0.583	2.99	3.667	3.98	6.750	9.56	9.83	2.39
0.667	2.99	3.750	3.98	6.833	9.56	9.92	2.39
0.750	1.39	3.833	3.98	6.917	9.56	10.00	2.39
0.833	1.39	3.917	3.98	7.000	9.56	10.08	2.39
0.917	1.39	4.000	3.98	7.083	9.56	10.17	2.39
1.000	1.39	4.083	3.98	7.167	9.56	10.25	3.39
1.083	1.39	4.167	3.98	7.250	6.37	10.33	3.39
1.167	1.39	4.250	5.38	7.333	6.37	10.42	3.39
1.250	2.59	4.333	5.38	7.417	6.37	10.50	3.39
1.333	2.59	4.417	5.38	7.500	6.37	10.58	3.39
1.417	2.59	4.500	5.38	7.583	6.37	10.67	3.39
1.500	2.59	4.583	5.38	7.667	6.37	10.75	2.19
1.583	2.59	4.667	5.38	7.750	5.58	10.83	2.19

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
 CN* = 72.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | ADD HYD (0033) |
 | 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)
 ID1= 1 (0200): 5.18 0.691 6.17 63.54
 + ID2= 2 (0201): 30.53 1.344 6.92 41.02

 ID = 3 (0033): 35.71 1.548 6.67 44.29

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

3.083 2.99 | 6.167 85.26 | 9.250 2.99 |

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-----
| CALIB |
| NASHYD ( 0211) | Area (ha)= 2.02 Curve Number (CN)= 72.0
| ID= 1 DT= 5.0 min | Ia (mm)= 10.50 # of Linear Res.(N)= 3.00
-----
U.H. Tp(hrs)= 0.16
  
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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

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-----
Unit Hyd Qpeak (cms)= 0.482
PEAK FLOW (cms)= 0.223 (i)
TIME TO PEAK (hrs)= 6.167
RUNOFF VOLUME (mm)= 42.065
TOTAL RAINFALL (mm)= 99.600
RUNOFF COEFFICIENT = 0.422
  
```

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.99	6.250	21.71	9.33	2.99
0.167	0.00	3.250	3.98	6.333	21.71	9.42	2.99
0.250	2.99	3.333	3.98	6.417	21.71	9.50	2.99
0.333	2.99	3.417	3.98	6.500	21.71	9.58	2.99
0.417	2.99	3.500	3.98	6.583	21.71	9.67	2.99
0.500	2.99	3.583	3.98	6.667	21.71	9.75	2.39
0.583	2.99	3.667	3.98	6.750	9.56	9.83	2.39
0.667	2.99	3.750	3.98	6.833	9.56	9.92	2.39
0.750	1.39	3.833	3.98	6.917	9.56	10.00	2.39
0.833	1.39	3.917	3.98	7.000	9.56	10.08	2.39
0.917	1.39	4.000	3.98	7.083	9.56	10.17	2.39
1.000	1.39	4.083	3.98	7.167	9.56	10.25	3.39
1.083	1.39	4.167	3.98	7.250	6.37	10.33	3.39
1.167	1.39	4.250	5.38	7.333	6.37	10.42	3.39
1.250	2.59	4.333	5.38	7.417	6.37	10.50	3.39
1.333	2.59	4.417	5.38	7.500	6.37	10.58	3.39
1.417	2.59	4.500	5.38	7.583	6.37	10.67	3.39
1.500	2.59	4.583	5.38	7.667	6.37	10.75	2.19
1.583	2.59	4.667	5.38	7.750	5.58	10.83	2.19
1.667	2.59	4.750	6.77	7.833	5.58	10.92	2.19
1.750	2.59	4.833	6.77	7.917	5.58	11.00	2.19
1.833	2.59	4.917	6.77	8.000	5.58	11.08	2.19
1.917	2.59	5.000	6.77	8.083	5.58	11.17	2.19
2.000	2.59	5.083	6.77	8.167	5.58	11.25	1.99
2.083	2.59	5.167	6.77	8.250	4.38	11.33	1.99
2.167	2.59	5.250	10.76	8.333	4.38	11.42	1.99
2.250	3.39	5.333	10.76	8.417	4.38	11.50	1.99
2.333	3.39	5.417	10.76	8.500	4.38	11.58	1.99
2.417	3.39	5.500	10.76	8.583	4.38	11.67	1.99
2.500	3.39	5.583	10.76	8.667	4.38	11.75	1.99
2.583	3.39	5.667	10.76	8.750	4.58	11.83	1.99
2.667	3.39	5.750	85.26	8.833	4.58	11.92	1.99
2.750	2.99	5.833	85.26	8.917	4.58	12.00	1.99
2.833	2.99	5.917	85.26	9.000	4.58	12.08	1.99
2.917	2.99	6.000	85.26	9.083	4.58	12.17	1.99
3.000	2.99	6.083	85.26	9.167	4.58		

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-----
| CALIB |
| STANDHYD ( 0210) | Area (ha)= 0.57
| ID= 1 DT= 5.0 min | Total Imp(%)= 30.00 Dir. Conn.(%)= 30.00
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-----
IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 0.17 0.40
Dep. Storage (mm)= 1.00 5.00
Average Slope (%)= 1.00 2.00
Length (m)= 61.73 40.00
Mannings n = 0.013 0.350
  
```

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.99	6.250	21.71	9.33	2.99
0.167	0.00	3.250	3.98	6.333	21.71	9.42	2.99
0.250	2.99	3.333	3.98	6.417	21.71	9.50	2.99
0.333	2.99	3.417	3.98	6.500	21.71	9.58	2.99
0.417	2.99	3.500	3.98	6.583	21.71	9.67	2.99
0.500	2.99	3.583	3.98	6.667	21.71	9.75	2.39
0.583	2.99	3.667	3.98	6.750	9.56	9.83	2.39
0.667	2.99	3.750	3.98	6.833	9.56	9.92	2.39
0.750	1.39	3.833	3.98	6.917	9.56	10.00	2.39
0.833	1.39	3.917	3.98	7.000	9.56	10.08	2.39
0.917	1.39	4.000	3.98	7.083	9.56	10.17	2.39
1.000	1.39	4.083	3.98	7.167	9.56	10.25	3.39
1.083	1.39	4.167	3.98	7.250	6.37	10.33	3.39
1.167	1.39	4.250	5.38	7.333	6.37	10.42	3.39
1.250	2.59	4.333	5.38	7.417	6.37	10.50	3.39
1.333	2.59	4.417	5.38	7.500	6.37	10.58	3.39
1.417	2.59	4.500	5.38	7.583	6.37	10.67	3.39
1.500	2.59	4.583	5.38	7.667	6.37	10.75	2.19
1.583	2.59	4.667	5.38	7.750	5.58	10.83	2.19

1.667	2.59	4.750	6.77	7.833	5.58	10.92	2.19
1.750	2.59	4.833	6.77	7.917	5.58	11.00	2.19
1.833	2.59	4.917	6.77	8.000	5.58	11.08	2.19
1.917	2.59	5.000	6.77	8.083	5.58	11.17	2.19
2.000	2.59	5.083	6.77	8.167	5.58	11.25	1.99
2.083	2.59	5.167	6.77	8.250	4.38	11.33	1.99
2.167	2.59	5.250	10.76	8.333	4.38	11.42	1.99
2.250	3.39	5.333	10.76	8.417	4.38	11.50	1.99
2.333	3.39	5.417	10.76	8.500	4.38	11.58	1.99
2.417	3.39	5.500	10.76	8.583	4.38	11.67	1.99
2.500	3.39	5.583	10.76	8.667	4.38	11.75	1.99
2.583	3.39	5.667	10.76	8.750	4.58	11.83	1.99
2.667	3.39	5.750	85.26	8.833	4.58	11.92	1.99
2.750	2.99	5.833	85.26	8.917	4.58	12.00	1.99
2.833	2.99	5.917	85.26	9.000	4.58	12.08	1.99
2.917	2.99	6.000	85.26	9.083	4.58	12.17	1.99
3.000	2.99	6.083	85.26	9.167	4.58		
3.083	2.99	6.167	85.26	9.250	2.99		

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| CALIB |
| NASHYD ( 0195) | Area (ha)= 496.69 Curve Number (CN)= 74.0
| ID= 1 DT= 5.0 min | Ia (mm)= 9.20 # of Linear Res.(N)= 3.00
-----
U.H. Tp(hrs)= 4.78

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.99	6.250	21.71	9.33	2.99
0.167	0.00	3.250	3.98	6.333	21.71	9.42	2.99
0.250	2.99	3.333	3.98	6.417	21.71	9.50	2.99
0.333	2.99	3.417	3.98	6.500	21.71	9.58	2.99
0.417	2.99	3.500	3.98	6.583	21.71	9.67	2.99
0.500	2.99	3.583	3.98	6.667	21.71	9.75	2.39
0.583	2.99	3.667	3.98	6.750	9.56	9.83	2.39
0.667	2.99	3.750	3.98	6.833	9.56	9.92	2.39
0.750	1.39	3.833	3.98	6.917	9.56	10.00	2.39
0.833	1.39	3.917	3.98	7.000	9.56	10.08	2.39
0.917	1.39	4.000	3.98	7.083	9.56	10.17	2.39
1.000	1.39	4.083	3.98	7.167	9.56	10.25	3.39
1.083	1.39	4.167	3.98	7.250	6.37	10.33	3.39
1.167	1.39	4.250	5.38	7.333	6.37	10.42	3.39
1.250	2.59	4.333	5.38	7.417	6.37	10.50	3.39
1.333	2.59	4.417	5.38	7.500	6.37	10.58	3.39
1.417	2.59	4.500	5.38	7.583	6.37	10.67	3.39
1.500	2.59	4.583	5.38	7.667	6.37	10.75	2.19
1.583	2.59	4.667	5.38	7.750	5.58	10.83	2.19
1.667	2.59	4.750	6.77	7.833	5.58	10.92	2.19
1.750	2.59	4.833	6.77	7.917	5.58	11.00	2.19
1.833	2.59	4.917	6.77	8.000	5.58	11.08	2.19
1.917	2.59	5.000	6.77	8.083	5.58	11.17	2.19
2.000	2.59	5.083	6.77	8.167	5.58	11.25	1.99
2.083	2.59	5.167	6.77	8.250	4.38	11.33	1.99
2.167	2.59	5.250	10.76	8.333	4.38	11.42	1.99
2.250	3.39	5.333	10.76	8.417	4.38	11.50	1.99
2.333	3.39	5.417	10.76	8.500	4.38	11.58	1.99
2.417	3.39	5.500	10.76	8.583	4.38	11.67	1.99
2.500	3.39	5.583	10.76	8.667	4.38	11.75	1.99
2.583	3.39	5.667	10.76	8.750	4.58	11.83	1.99
2.667	3.39	5.750	85.26	8.833	4.58	11.92	1.99
2.750	2.99	5.833	85.26	8.917	4.58	12.00	1.99
2.833	2.99	5.917	85.26	9.000	4.58	12.08	1.99
2.917	2.99	6.000	85.26	9.083	4.58	12.17	1.99
3.000	2.99	6.083	85.26	9.167	4.58		

Max.Eff.Inten.(mm/hr)= 85.26 44.05
over (min) 5.00 15.00
Storage Coeff. (min)= 2.04 (ii) 14.03 (ii)
Unit Hyd. Tpeak (min)= 5.00 15.00
Unit Hyd. peak (cms)= 0.31 0.08

TOTALS

PEAK FLOW (cms)= 0.04 0.04 0.075 (iii)
TIME TO PEAK (hrs)= 6.08 6.25 6.17
RUNOFF VOLUME (mm)= 98.60 42.88 59.58
TOTAL RAINFALL (mm)= 99.60 99.60
RUNOFF COEFFICIENT = 0.99 0.43 0.60

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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-----
| ADD HYD ( 0036) |
| 1 + 2 = 3 |
-----

```

	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0210):	0.57	0.075	6.17	59.58
+ ID2= 2 (0211):	2.02	0.223	6.17	42.06
=====				
ID = 3 (0036):	2.59	0.298	6.17	45.92

3.083 2.99 | 6.167 85.26 | 9.250 2.99 |

Unit Hyd Qpeak (cms)= 3.969

PEAK FLOW (cms)= 6.246 (i)
 TIME TO PEAK (hrs)= 11.917
 RUNOFF VOLUME (mm)= 45.491
 TOTAL RAINFALL (mm)= 99.600
 RUNOFF COEFFICIENT = 0.457

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

2.167	2.59	5.250	10.76	8.333	4.38	11.42	1.99
2.250	3.39	5.333	10.76	8.417	4.38	11.50	1.99
2.333	3.39	5.417	10.76	8.500	4.38	11.58	1.99
2.417	3.39	5.500	10.76	8.583	4.38	11.67	1.99
2.500	3.39	5.583	10.76	8.667	4.38	11.75	1.99
2.583	3.39	5.667	10.76	8.750	4.58	11.83	1.99
2.667	3.39	5.750	85.26	8.833	4.58	11.92	1.99
2.750	2.99	5.833	85.26	8.917	4.58	12.00	1.99
2.833	2.99	5.917	85.26	9.000	4.58	12.08	1.99
2.917	2.99	6.000	85.26	9.083	4.58	12.17	1.99
3.000	2.99	6.083	85.26	9.167	4.58		
3.083	2.99	6.167	85.26	9.250	2.99		

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-----
| CALIB |
| NASHYD ( 0196) | Area (ha)= 65.48 Curve Number (CN)= 73.0
| ID= 1 DT= 5.0 min | Ia (mm)= 9.60 # of Linear Res.(N)= 3.00
|-----| U.H. Tp(hrs)= 0.56
  
```

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.99	6.250	21.71	9.33	2.99
0.167	0.00	3.250	3.98	6.333	21.71	9.42	2.99
0.250	2.99	3.333	3.98	6.417	21.71	9.50	2.99
0.333	2.99	3.417	3.98	6.500	21.71	9.58	2.99
0.417	2.99	3.500	3.98	6.583	21.71	9.67	2.99
0.500	2.99	3.583	3.98	6.667	21.71	9.75	2.39
0.583	2.99	3.667	3.98	6.750	9.56	9.83	2.39
0.667	2.99	3.750	3.98	6.833	9.56	9.92	2.39
0.750	1.39	3.833	3.98	6.917	9.56	10.00	2.39
0.833	1.39	3.917	3.98	7.000	9.56	10.08	2.39
0.917	1.39	4.000	3.98	7.083	9.56	10.17	2.39
1.000	1.39	4.083	3.98	7.167	9.56	10.25	3.39
1.083	1.39	4.167	3.98	7.250	6.37	10.33	3.39
1.167	1.39	4.250	5.38	7.333	6.37	10.42	3.39
1.250	2.59	4.333	5.38	7.417	6.37	10.50	3.39
1.333	2.59	4.417	5.38	7.500	6.37	10.58	3.39
1.417	2.59	4.500	5.38	7.583	6.37	10.67	3.39
1.500	2.59	4.583	5.38	7.667	6.37	10.75	2.19
1.583	2.59	4.667	5.38	7.750	5.58	10.83	2.19
1.667	2.59	4.750	6.77	7.833	5.58	10.92	2.19
1.750	2.59	4.833	6.77	7.917	5.58	11.00	2.19
1.833	2.59	4.917	6.77	8.000	5.58	11.08	2.19
1.917	2.59	5.000	6.77	8.083	5.58	11.17	2.19
2.000	2.59	5.083	6.77	8.167	5.58	11.25	1.99
2.083	2.59	5.167	6.77	8.250	4.38	11.33	1.99

Unit Hyd Qpeak (cms)= 4.466

PEAK FLOW (cms)= 3.856 (i)
 TIME TO PEAK (hrs)= 6.667
 RUNOFF VOLUME (mm)= 44.033
 TOTAL RAINFALL (mm)= 99.600
 RUNOFF COEFFICIENT = 0.442

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```

-----
| ADD HYD ( 0059) |
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
|-----| (ha) (cms) (hrs) (mm)
ID1= 1 ( 0195): 496.69 6.246 11.92 45.49
+ ID2= 2 ( 0196): 65.48 3.856 6.67 44.03
=====
ID = 3 ( 0059): 562.17 6.555 11.58 45.32
  
```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| ADD HYD ( 0059) |
| 3 + 2 = 1 | AREA QPEAK TPEAK R.V.
|-----| (ha) (cms) (hrs) (mm)
ID1= 3 ( 0059): 562.17 6.555 11.58 45.32
+ ID2= 2 ( 0033): 35.71 1.548 6.67 44.29
=====
ID = 1 ( 0059): 597.88 6.743 11.50 45.26
  
```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

| ADD HYD ( 0059) |
| 1 + 2 = 3 |
-----
      AREA   QPEAK   TPEAK   R.V.
      (ha)   (cms)   (hrs)   (mm)
ID1= 1 ( 0059):  597.88  6.743  11.50  45.26
+ ID2= 2 ( 0036):   2.59  0.298   6.17  45.92
=====
ID = 3 ( 0059):  600.47  6.753  11.42  45.26

```

```

      2.417  3.39 | 5.500  10.76 | 8.583  4.38 | 11.67  1.99
      2.500  3.39 | 5.583  10.76 | 8.667  4.38 | 11.75  1.99
      2.583  3.39 | 5.667  10.76 | 8.750  4.58 | 11.83  1.99
      2.667  3.39 | 5.750  85.26 | 8.833  4.58 | 11.92  1.99
      2.750  2.99 | 5.833  85.26 | 8.917  4.58 | 12.00  1.99
      2.833  2.99 | 5.917  85.26 | 9.000  4.58 | 12.08  1.99
      2.917  2.99 | 6.000  85.26 | 9.083  4.58 | 12.17  1.99
      3.000  2.99 | 6.083  85.26 | 9.167  4.58 |
      3.083  2.99 | 6.167  85.26 | 9.250  2.99 |

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| CALIB |
| NASHYD ( 0194) | Area (ha)= 160.45 Curve Number (CN)= 74.0
| ID= 1 DT= 5.0 min | Ia (mm)= 9.10 # of Linear Res.(N)= 3.00
-----
U.H. Tp(hrs)= 1.95

```

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

Unit Hyd Qpeak (cms)= 3.143

```

PEAK FLOW (cms)= 4.040 (i)
TIME TO PEAK (hrs)= 8.333
RUNOFF VOLUME (mm)= 45.566
TOTAL RAINFALL (mm)= 99.600
RUNOFF COEFFICIENT = 0.457

```

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.99	6.250	21.71	9.33	2.99
0.167	0.00	3.250	3.98	6.333	21.71	9.42	2.99
0.250	2.99	3.333	3.98	6.417	21.71	9.50	2.99
0.333	2.99	3.417	3.98	6.500	21.71	9.58	2.99
0.417	2.99	3.500	3.98	6.583	21.71	9.67	2.99
0.500	2.99	3.583	3.98	6.667	21.71	9.75	2.39
0.583	2.99	3.667	3.98	6.750	9.56	9.83	2.39
0.667	2.99	3.750	3.98	6.833	9.56	9.92	2.39
0.750	1.39	3.833	3.98	6.917	9.56	10.00	2.39
0.833	1.39	3.917	3.98	7.000	9.56	10.08	2.39
0.917	1.39	4.000	3.98	7.083	9.56	10.17	2.39
1.000	1.39	4.083	3.98	7.167	9.56	10.25	3.39
1.083	1.39	4.167	3.98	7.250	6.37	10.33	3.39
1.167	1.39	4.250	5.38	7.333	6.37	10.42	3.39
1.250	2.59	4.333	5.38	7.417	6.37	10.50	3.39
1.333	2.59	4.417	5.38	7.500	6.37	10.58	3.39
1.417	2.59	4.500	5.38	7.583	6.37	10.67	3.39
1.500	2.59	4.583	5.38	7.667	6.37	10.75	2.19
1.583	2.59	4.667	5.38	7.750	5.58	10.83	2.19
1.667	2.59	4.750	6.77	7.833	5.58	10.92	2.19
1.750	2.59	4.833	6.77	7.917	5.58	11.00	2.19
1.833	2.59	4.917	6.77	8.000	5.58	11.08	2.19
1.917	2.59	5.000	6.77	8.083	5.58	11.17	2.19
2.000	2.59	5.083	6.77	8.167	5.58	11.25	1.99
2.083	2.59	5.167	6.77	8.250	4.38	11.33	1.99
2.167	2.59	5.250	10.76	8.333	4.38	11.42	1.99
2.250	3.39	5.333	10.76	8.417	4.38	11.50	1.99
2.333	3.39	5.417	10.76	8.500	4.38	11.58	1.99

```

-----
| ADD HYD ( 0016) |
| 1 + 2 = 3 |
-----
      AREA   QPEAK   TPEAK   R.V.
      (ha)   (cms)   (hrs)   (mm)
ID1= 1 ( 0194):  160.45  4.040   8.33  45.57
+ ID2= 2 ( 0059):  600.47  6.753  11.42  45.26
=====
ID = 3 ( 0016):  760.92  9.392   9.50  45.33

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| CALIB |
| NASHYD ( 0193) | Area (ha)= 48.63 Curve Number (CN)= 64.0
| ID= 1 DT= 5.0 min | Ia (mm)= 16.40 # of Linear Res.(N)= 3.00
-----
U.H. Tp(hrs)= 1.31

```

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.99	6.250	21.71	9.33	2.99
0.167	0.00	3.250	3.98	6.333	21.71	9.42	2.99
0.250	2.99	3.333	3.98	6.417	21.71	9.50	2.99
0.333	2.99	3.417	3.98	6.500	21.71	9.58	2.99
0.417	2.99	3.500	3.98	6.583	21.71	9.67	2.99

0.500	2.99	3.583	3.98	6.667	21.71	9.75	2.39
0.583	2.99	3.667	3.98	6.750	9.56	9.83	2.39
0.667	2.99	3.750	3.98	6.833	9.56	9.92	2.39
0.750	1.39	3.833	3.98	6.917	9.56	10.00	2.39
0.833	1.39	3.917	3.98	7.000	9.56	10.08	2.39
0.917	1.39	4.000	3.98	7.083	9.56	10.17	2.39
1.000	1.39	4.083	3.98	7.167	9.56	10.25	3.39
1.083	1.39	4.167	3.98	7.250	6.37	10.33	3.39
1.167	1.39	4.250	5.38	7.333	6.37	10.42	3.39
1.250	2.59	4.333	5.38	7.417	6.37	10.50	3.39
1.333	2.59	4.417	5.38	7.500	6.37	10.58	3.39
1.417	2.59	4.500	5.38	7.583	6.37	10.67	3.39
1.500	2.59	4.583	5.38	7.667	6.37	10.75	2.19
1.583	2.59	4.667	5.38	7.750	5.58	10.83	2.19
1.667	2.59	4.750	6.77	7.833	5.58	10.92	2.19
1.750	2.59	4.833	6.77	7.917	5.58	11.00	2.19
1.833	2.59	4.917	6.77	8.000	5.58	11.08	2.19
1.917	2.59	5.000	6.77	8.083	5.58	11.17	2.19
2.000	2.59	5.083	6.77	8.167	5.58	11.25	1.99
2.083	2.59	5.167	6.77	8.250	4.38	11.33	1.99
2.167	2.59	5.250	10.76	8.333	4.38	11.42	1.99
2.250	3.39	5.333	10.76	8.417	4.38	11.50	1.99
2.333	3.39	5.417	10.76	8.500	4.38	11.58	1.99
2.417	3.39	5.500	10.76	8.583	4.38	11.67	1.99
2.500	3.39	5.583	10.76	8.667	4.38	11.75	1.99
2.583	3.39	5.667	10.76	8.750	4.58	11.83	1.99
2.667	3.39	5.750	85.26	8.833	4.58	11.92	1.99
2.750	2.99	5.833	85.26	8.917	4.58	12.00	1.99
2.833	2.99	5.917	85.26	9.000	4.58	12.08	1.99
2.917	2.99	6.000	85.26	9.083	4.58	12.17	1.99
3.000	2.99	6.083	85.26	9.167	4.58		
3.083	2.99	6.167	85.26	9.250	2.99		

+ ID2= 2 (0193): 48.63 1.065 7.67 30.62
 =====
 ID = 3 (0060): 809.55 10.054 9.17 44.44

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

 | CALIB |
 | NASHYD (0191) | Area (ha)= 147.11 Curve Number (CN)= 67.0
 | ID= 1 DT= 5.0 min | Ia (mm)= 13.40 # of Linear Res.(N)= 3.00

 U.H. Tp(hrs)= 1.83

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.99	6.250	21.71	9.33	2.99
0.167	0.00	3.250	3.98	6.333	21.71	9.42	2.99
0.250	2.99	3.333	3.98	6.417	21.71	9.50	2.99
0.333	2.99	3.417	3.98	6.500	21.71	9.58	2.99
0.417	2.99	3.500	3.98	6.583	21.71	9.67	2.99
0.500	2.99	3.583	3.98	6.667	21.71	9.75	2.39
0.583	2.99	3.667	3.98	6.750	9.56	9.83	2.39
0.667	2.99	3.750	3.98	6.833	9.56	9.92	2.39
0.750	1.39	3.833	3.98	6.917	9.56	10.00	2.39
0.833	1.39	3.917	3.98	7.000	9.56	10.08	2.39
0.917	1.39	4.000	3.98	7.083	9.56	10.17	2.39
1.000	1.39	4.083	3.98	7.167	9.56	10.25	3.39
1.083	1.39	4.167	3.98	7.250	6.37	10.33	3.39
1.167	1.39	4.250	5.38	7.333	6.37	10.42	3.39
1.250	2.59	4.333	5.38	7.417	6.37	10.50	3.39
1.333	2.59	4.417	5.38	7.500	6.37	10.58	3.39
1.417	2.59	4.500	5.38	7.583	6.37	10.67	3.39
1.500	2.59	4.583	5.38	7.667	6.37	10.75	2.19
1.583	2.59	4.667	5.38	7.750	5.58	10.83	2.19
1.667	2.59	4.750	6.77	7.833	5.58	10.92	2.19
1.750	2.59	4.833	6.77	7.917	5.58	11.00	2.19
1.833	2.59	4.917	6.77	8.000	5.58	11.08	2.19
1.917	2.59	5.000	6.77	8.083	5.58	11.17	2.19
2.000	2.59	5.083	6.77	8.167	5.58	11.25	1.99
2.083	2.59	5.167	6.77	8.250	4.38	11.33	1.99
2.167	2.59	5.250	10.76	8.333	4.38	11.42	1.99
2.250	3.39	5.333	10.76	8.417	4.38	11.50	1.99
2.333	3.39	5.417	10.76	8.500	4.38	11.58	1.99
2.417	3.39	5.500	10.76	8.583	4.38	11.67	1.99
2.500	3.39	5.583	10.76	8.667	4.38	11.75	1.99
2.583	3.39	5.667	10.76	8.750	4.58	11.83	1.99
2.667	3.39	5.750	85.26	8.833	4.58	11.92	1.99

Unit Hyd Qpeak (cms)= 1.418

PEAK FLOW (cms)= 1.065 (i)
 TIME TO PEAK (hrs)= 7.667
 RUNOFF VOLUME (mm)= 30.619
 TOTAL RAINFALL (mm)= 99.600
 RUNOFF COEFFICIENT = 0.307

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | ADD HYD (0060) |
 | 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
 (ha) (cms) (hrs) (mm)
 ID1= 1 (0016): 760.92 9.392 9.50 45.33

2.750	2.99	5.833	85.26	8.917	4.58	12.00	1.99
2.833	2.99	5.917	85.26	9.000	4.58	12.08	1.99
2.917	2.99	6.000	85.26	9.083	4.58	12.17	1.99
3.000	2.99	6.083	85.26	9.167	4.58		
3.083	2.99	6.167	85.26	9.250	2.99		

1.333	2.59	4.417	5.38	7.500	6.37	10.58	3.39
1.417	2.59	4.500	5.38	7.583	6.37	10.67	3.39
1.500	2.59	4.583	5.38	7.667	6.37	10.75	2.19
1.583	2.59	4.667	5.38	7.750	5.58	10.83	2.19
1.667	2.59	4.750	6.77	7.833	5.58	10.92	2.19
1.750	2.59	4.833	6.77	7.917	5.58	11.00	2.19
1.833	2.59	4.917	6.77	8.000	5.58	11.08	2.19
1.917	2.59	5.000	6.77	8.083	5.58	11.17	2.19
2.000	2.59	5.083	6.77	8.167	5.58	11.25	1.99
2.083	2.59	5.167	6.77	8.250	4.38	11.33	1.99
2.167	2.59	5.250	10.76	8.333	4.38	11.42	1.99
2.250	3.39	5.333	10.76	8.417	4.38	11.50	1.99
2.333	3.39	5.417	10.76	8.500	4.38	11.58	1.99
2.417	3.39	5.500	10.76	8.583	4.38	11.67	1.99
2.500	3.39	5.583	10.76	8.667	4.38	11.75	1.99
2.583	3.39	5.667	10.76	8.750	4.58	11.83	1.99
2.667	3.39	5.750	85.26	8.833	4.58	11.92	1.99
2.750	2.99	5.833	85.26	8.917	4.58	12.00	1.99
2.833	2.99	5.917	85.26	9.000	4.58	12.08	1.99
2.917	2.99	6.000	85.26	9.083	4.58	12.17	1.99
3.000	2.99	6.083	85.26	9.167	4.58		
3.083	2.99	6.167	85.26	9.250	2.99		

Unit Hyd Qpeak (cms)= 3.070

PEAK FLOW (cms)= 2.934 (i)
 TIME TO PEAK (hrs)= 8.250
 RUNOFF VOLUME (mm)= 35.165
 TOTAL RAINFALL (mm)= 99.600
 RUNOFF COEFFICIENT = 0.353

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	
STANDHYD (0190)	Area (ha)= 2.29
ID= 1 DT= 5.0 min	Total Imp(%)= 46.00 Dir. Conn.(%)= 46.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	1.05	1.24
Dep. Storage (mm)=	1.00	5.00
Average Slope (%)=	1.00	2.00
Length (m)=	123.53	40.00
Mannings n =	0.013	0.350

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.99	6.250	21.71	9.33	2.99
0.167	0.00	3.250	3.98	6.333	21.71	9.42	2.99
0.250	2.99	3.333	3.98	6.417	21.71	9.50	2.99
0.333	2.99	3.417	3.98	6.500	21.71	9.58	2.99
0.417	2.99	3.500	3.98	6.583	21.71	9.67	2.99
0.500	2.99	3.583	3.98	6.667	21.71	9.75	2.39
0.583	2.99	3.667	3.98	6.750	9.56	9.83	2.39
0.667	2.99	3.750	3.98	6.833	9.56	9.92	2.39
0.750	1.39	3.833	3.98	6.917	9.56	10.00	2.39
0.833	1.39	3.917	3.98	7.000	9.56	10.08	2.39
0.917	1.39	4.000	3.98	7.083	9.56	10.17	2.39
1.000	1.39	4.083	3.98	7.167	9.56	10.25	3.39
1.083	1.39	4.167	3.98	7.250	6.37	10.33	3.39
1.167	1.39	4.250	5.38	7.333	6.37	10.42	3.39
1.250	2.59	4.333	5.38	7.417	6.37	10.50	3.39

Max.Eff.Inten.(mm/hr)= 85.26 31.70
 over (min) 5.00 20.00
 Storage Coeff. (min)= 3.09 (ii) 16.77 (ii)
 Unit Hyd. Tpeak (min)= 5.00 20.00
 Unit Hyd. peak (cms)= 0.27 0.06

TOTALS

PEAK FLOW (cms)= 0.25 0.07 0.312 (iii)
 TIME TO PEAK (hrs)= 6.17 6.33 6.17
 RUNOFF VOLUME (mm)= 98.60 31.27 62.24
 TOTAL RAINFALL (mm)= 99.60 99.60 99.60
 RUNOFF COEFFICIENT = 0.99 0.31 0.62

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
 CN* = 57.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
 THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0030)				
1 + 2 = 3				

ID1= 1 (0190):	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
	2.29	0.312	6.17	62.24

+ ID2= 2 (0191): 147.11 2.934 8.25 35.16
 ID = 3 (0030): 149.40 2.958 8.25 35.58

2.750	2.99	5.833	85.26	8.917	4.58	12.00	1.99
2.833	2.99	5.917	85.26	9.000	4.58	12.08	1.99
2.917	2.99	6.000	85.26	9.083	4.58	12.17	1.99
3.000	2.99	6.083	85.26	9.167	4.58		
3.083	2.99	6.167	85.26	9.250	2.99		

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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| CALIB |
| NASHYD ( 0192) | Area (ha)= 276.67 Curve Number (CN)= 67.0
| ID= 1 DT= 5.0 min | Ia (mm)= 9.40 # of Linear Res.(N)= 3.00
-----
U.H. Tp(hrs)= 4.85
  
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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.99	6.250	21.71	9.33	2.99
0.167	0.00	3.250	3.98	6.333	21.71	9.42	2.99
0.250	2.99	3.333	3.98	6.417	21.71	9.50	2.99
0.333	2.99	3.417	3.98	6.500	21.71	9.58	2.99
0.417	2.99	3.500	3.98	6.583	21.71	9.67	2.99
0.500	2.99	3.583	3.98	6.667	21.71	9.75	2.39
0.583	2.99	3.667	3.98	6.750	9.56	9.83	2.39
0.667	2.99	3.750	3.98	6.833	9.56	9.92	2.39
0.750	1.39	3.833	3.98	6.917	9.56	10.00	2.39
0.833	1.39	3.917	3.98	7.000	9.56	10.08	2.39
0.917	1.39	4.000	3.98	7.083	9.56	10.17	2.39
1.000	1.39	4.083	3.98	7.167	9.56	10.25	3.39
1.083	1.39	4.167	3.98	7.250	6.37	10.33	3.39
1.167	1.39	4.250	5.38	7.333	6.37	10.42	3.39
1.250	2.59	4.333	5.38	7.417	6.37	10.50	3.39
1.333	2.59	4.417	5.38	7.500	6.37	10.58	3.39
1.417	2.59	4.500	5.38	7.583	6.37	10.67	3.39
1.500	2.59	4.583	5.38	7.667	6.37	10.75	2.19
1.583	2.59	4.667	5.38	7.750	5.58	10.83	2.19
1.667	2.59	4.750	6.77	7.833	5.58	10.92	2.19
1.750	2.59	4.833	6.77	7.917	5.58	11.00	2.19
1.833	2.59	4.917	6.77	8.000	5.58	11.08	2.19
1.917	2.59	5.000	6.77	8.083	5.58	11.17	2.19
2.000	2.59	5.083	6.77	8.167	5.58	11.25	1.99
2.083	2.59	5.167	6.77	8.250	4.38	11.33	1.99
2.167	2.59	5.250	10.76	8.333	4.38	11.42	1.99
2.250	3.39	5.333	10.76	8.417	4.38	11.50	1.99
2.333	3.39	5.417	10.76	8.500	4.38	11.58	1.99
2.417	3.39	5.500	10.76	8.583	4.38	11.67	1.99
2.500	3.39	5.583	10.76	8.667	4.38	11.75	1.99
2.583	3.39	5.667	10.76	8.750	4.58	11.83	1.99
2.667	3.39	5.750	85.26	8.833	4.58	11.92	1.99

Unit Hyd Qpeak (cms)= 2.179

PEAK FLOW (cms)= 2.848 (i)
 TIME TO PEAK (hrs)= 12.083
 RUNOFF VOLUME (mm)= 37.788
 TOTAL RAINFALL (mm)= 99.600
 RUNOFF COEFFICIENT = 0.379

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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-----
| ADD HYD ( 0061) |
| 1 + 2 = 3 |
-----
          AREA   QPEAK   TPEAK   R.V.
          (ha)   (cms)   (hrs)   (mm)
ID1= 1 ( 0192): 276.67 2.848 12.08 37.79
+ ID2= 2 ( 0030): 149.40 2.958 8.25 35.58
-----
ID = 3 ( 0061): 426.07 4.694 9.33 37.01
  
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NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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V V I SSSSS U U A L (v 6.2.2006)
V V I SS U U A A L
V V I SS U U A A A A L
V V I SS U U A A L
VV I SSSSS UUUU A A LLLLL

000 TTTT TTTT H H Y Y M M 000 TM
O O T T H H Y Y MM MM O O
O O T T H H Y M M O O
000 T T H H Y M M 000

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***** D E T A I L E D O U T P U T *****

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.2\VO2\voin.dat

2.83	3.24	6.00	92.45	9.17	4.97
3.00	3.24	6.17	92.45	9.33	3.24
3.17	3.24	6.33	23.54	9.50	3.24

Output filename:

C:\Users\caeh076182\AppData\Local\Civica\XH5\18e334db-11e6-4c2c-9e9b-68ade393f174\3e7a358-9ccc-422a-922a-733f918f79c8\s

Summary filename:

C:\Users\caeh076182\AppData\Local\Civica\XH5\18e334db-11e6-4c2c-9e9b-68ade393f174\3e7a358-9ccc-422a-922a-733f918f79c8\s

DATE: 12-14-2022

TIME: 02:56:56

USER:

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

COMMENTS: _____

 ** SIMULATION : 12SCS100 **

READ STORM	Filename: C:\Users\caeh076182\AppData\Local\Temp\4057dc77-ff29-4e2b-baf3-03fff24407828\b3f68784
Ptotal=108.00 mm	Comments: 12SCS100

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.17	0.00	3.33	4.32	6.50	23.54	9.67	3.24
0.33	3.24	3.50	4.32	6.67	23.54	9.83	2.59
0.50	3.24	3.67	4.32	6.83	10.37	10.00	2.59
0.67	3.24	3.83	4.32	7.00	10.37	10.17	2.59
0.83	1.51	4.00	4.32	7.17	10.37	10.33	3.67
1.00	1.51	4.17	4.32	7.33	6.91	10.50	3.67
1.17	1.51	4.33	5.83	7.50	6.91	10.67	3.67
1.33	2.81	4.50	5.83	7.67	6.91	10.83	2.38
1.50	2.81	4.67	5.83	7.83	6.05	11.00	2.38
1.67	2.81	4.83	7.34	8.00	6.05	11.17	2.38
1.83	2.81	5.00	7.34	8.17	6.05	11.33	2.16
2.00	2.81	5.17	7.34	8.33	4.75	11.50	2.16
2.17	2.81	5.33	11.66	8.50	4.75	11.67	2.16
2.33	3.67	5.50	11.66	8.67	4.75	11.83	2.16
2.50	3.67	5.67	11.66	8.83	4.97	12.00	2.16
2.67	3.67	5.83	92.45	9.00	4.97	12.17	2.16

CALIB	Area (ha)=	7.90	Curve Number (CN)=	62.0
NASHYD (0101)	Ia (mm)=	16.80	# of Linear Res.(N)=	3.00
ID= 1 DT= 5.0 min	U.H. Tp(hrs)=	0.46		

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	3.24	6.250	23.54	9.33	3.24
0.167	0.00	3.250	4.32	6.333	23.54	9.42	3.24
0.250	3.24	3.333	4.32	6.417	23.54	9.50	3.24
0.333	3.24	3.417	4.32	6.500	23.54	9.58	3.24
0.417	3.24	3.500	4.32	6.583	23.54	9.67	3.24
0.500	3.24	3.583	4.32	6.667	23.54	9.75	2.59
0.583	3.24	3.667	4.32	6.750	10.37	9.83	2.59
0.667	3.24	3.750	4.32	6.833	10.37	9.92	2.59
0.750	1.51	3.833	4.32	6.917	10.37	10.00	2.59
0.833	1.51	3.917	4.32	7.000	10.37	10.08	2.59
0.917	1.51	4.000	4.32	7.083	10.37	10.17	2.59
1.000	1.51	4.083	4.32	7.167	10.37	10.25	3.67
1.083	1.51	4.167	4.32	7.250	6.91	10.33	3.67
1.167	1.51	4.250	5.83	7.333	6.91	10.42	3.67
1.250	2.81	4.333	5.83	7.417	6.91	10.50	3.67
1.333	2.81	4.417	5.83	7.500	6.91	10.58	3.67
1.417	2.81	4.500	5.83	7.583	6.91	10.67	3.67
1.500	2.81	4.583	5.83	7.667	6.91	10.75	2.38
1.583	2.81	4.667	5.83	7.750	6.05	10.83	2.38
1.667	2.81	4.750	7.34	7.833	6.05	10.92	2.38
1.750	2.81	4.833	7.34	7.917	6.05	11.00	2.38
1.833	2.81	4.917	7.34	8.000	6.05	11.08	2.38
1.917	2.81	5.000	7.34	8.083	6.05	11.17	2.38
2.000	2.81	5.083	7.34	8.167	6.05	11.25	2.16
2.083	2.81	5.167	7.34	8.250	4.75	11.33	2.16
2.167	2.81	5.250	11.66	8.333	4.75	11.42	2.16
2.250	3.67	5.333	11.66	8.417	4.75	11.50	2.16
2.333	3.67	5.417	11.66	8.500	4.75	11.58	2.16
2.417	3.67	5.500	11.66	8.583	4.75	11.67	2.16
2.500	3.67	5.583	11.66	8.667	4.75	11.75	2.16
2.583	3.67	5.667	11.66	8.750	4.97	11.83	2.16
2.667	3.67	5.750	92.45	8.833	4.97	11.92	2.16

2.750	3.24	5.833	92.45	8.917	4.97	12.00	2.16
2.833	3.24	5.917	92.45	9.000	4.97	12.08	2.16
2.917	3.24	6.000	92.45	9.083	4.97	12.17	2.16
3.000	3.24	6.083	92.45	9.167	4.97		
3.083	3.24	6.167	92.45	9.250	3.24		

1.333	2.81	4.417	5.83	7.500	6.91	10.58	3.67
1.417	2.81	4.500	5.83	7.583	6.91	10.67	3.67
1.500	2.81	4.583	5.83	7.667	6.91	10.75	2.38
1.583	2.81	4.667	5.83	7.750	6.05	10.83	2.38
1.667	2.81	4.750	7.34	7.833	6.05	10.92	2.38
1.750	2.81	4.833	7.34	7.917	6.05	11.00	2.38
1.833	2.81	4.917	7.34	8.000	6.05	11.08	2.38
1.917	2.81	5.000	7.34	8.083	6.05	11.17	2.38
2.000	2.81	5.083	7.34	8.167	6.05	11.25	2.16
2.083	2.81	5.167	7.34	8.250	4.75	11.33	2.16
2.167	2.81	5.250	11.66	8.333	4.75	11.42	2.16
2.250	3.67	5.333	11.66	8.417	4.75	11.50	2.16
2.333	3.67	5.417	11.66	8.500	4.75	11.58	2.16
2.417	3.67	5.500	11.66	8.583	4.75	11.67	2.16
2.500	3.67	5.583	11.66	8.667	4.75	11.75	2.16
2.583	3.67	5.667	11.66	8.750	4.97	11.83	2.16
2.667	3.67	5.750	92.45	8.833	4.97	11.92	2.16
2.750	3.24	5.833	92.45	8.917	4.97	12.00	2.16
2.833	3.24	5.917	92.45	9.000	4.97	12.08	2.16
2.917	3.24	6.000	92.45	9.083	4.97	12.17	2.16
3.000	3.24	6.083	92.45	9.167	4.97		
3.083	3.24	6.167	92.45	9.250	3.24		

Unit Hyd Qpeak (cms)= 0.656

PEAK FLOW (cms)= 0.382 (i)

TIME TO PEAK (hrs)= 6.583

RUNOFF VOLUME (mm)= 33.688

TOTAL RAINFALL (mm)= 108.000

RUNOFF COEFFICIENT = 0.312

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	
STANDHYD (0100)	Area (ha)= 0.91
ID= 1 DT= 5.0 min	Total Imp(%)= 61.00 Dir. Conn.(%)= 61.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.56	0.35
Dep. Storage (mm)=	1.00	5.00
Average Slope (%)=	1.00	2.00
Length (m)=	77.68	40.00
Mannings n =	0.013	0.360

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	3.24	6.250	23.54	9.33	3.24
0.167	0.00	3.250	4.32	6.333	23.54	9.42	3.24
0.250	3.24	3.333	4.32	6.417	23.54	9.50	3.24
0.333	3.24	3.417	4.32	6.500	23.54	9.58	3.24
0.417	3.24	3.500	4.32	6.583	23.54	9.67	3.24
0.500	3.24	3.583	4.32	6.667	23.54	9.75	2.59
0.583	3.24	3.667	4.32	6.750	10.37	9.83	2.59
0.667	3.24	3.750	4.32	6.833	10.37	9.92	2.59
0.750	1.51	3.833	4.32	6.917	10.37	10.00	2.59
0.833	1.51	3.917	4.32	7.000	10.37	10.08	2.59
0.917	1.51	4.000	4.32	7.083	10.37	10.17	2.59
1.000	1.51	4.083	4.32	7.167	10.37	10.25	3.67
1.083	1.51	4.167	4.32	7.250	6.91	10.33	3.67
1.167	1.51	4.250	5.83	7.333	6.91	10.42	3.67
1.250	2.81	4.333	5.83	7.417	6.91	10.50	3.67

Max.Eff.Inten.(mm/hr)=	92.45	47.68
over (min)	5.00	15.00
Storage Coeff. (min)=	2.27 (ii)	14.08 (ii)
Unit Hyd. Tpeak (min)=	5.00	15.00
Unit Hyd. peak (cms)=	0.30	0.08

TOTALS

PEAK FLOW (cms)=	0.14	0.04	0.176 (iii)
TIME TO PEAK (hrs)=	6.08	6.25	6.17
RUNOFF VOLUME (mm)=	107.00	46.51	83.40
TOTAL RAINFALL (mm)=	108.00	108.00	108.00
RUNOFF COEFFICIENT =	0.99	0.43	0.77

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 67.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0003)				
1 + 2 = 3	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0100):	0.91	0.176	6.17	83.40

+ ID2= 2 (0101): 7.90 0.382 6.58 33.69
 =====
 ID = 3 (0003): 8.81 0.441 6.50 38.82

2.750	3.24	5.833	92.45	8.917	4.97	12.00	2.16
2.833	3.24	5.917	92.45	9.000	4.97	12.08	2.16
2.917	3.24	6.000	92.45	9.083	4.97	12.17	2.16
3.000	3.24	6.083	92.45	9.167	4.97		
3.083	3.24	6.167	92.45	9.250	3.24		

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

 | CALIB |
 | NASHYD (0111) | Area (ha)= 5.33 Curve Number (CN)= 54.0
 | ID= 1 DT= 5.0 min | Ia (mm)= 22.80 # of Linear Res.(N)= 3.00

 U.H. Tp(hrs)= 0.38

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	3.24	6.250	23.54	9.33	3.24
0.167	0.00	3.250	4.32	6.333	23.54	9.42	3.24
0.250	3.24	3.333	4.32	6.417	23.54	9.50	3.24
0.333	3.24	3.417	4.32	6.500	23.54	9.58	3.24
0.417	3.24	3.500	4.32	6.583	23.54	9.67	3.24
0.500	3.24	3.583	4.32	6.667	23.54	9.75	2.59
0.583	3.24	3.667	4.32	6.750	10.37	9.83	2.59
0.667	3.24	3.750	4.32	6.833	10.37	9.92	2.59
0.750	1.51	3.833	4.32	6.917	10.37	10.00	2.59
0.833	1.51	3.917	4.32	7.000	10.37	10.08	2.59
0.917	1.51	4.000	4.32	7.083	10.37	10.17	2.59
1.000	1.51	4.083	4.32	7.167	10.37	10.25	3.67
1.083	1.51	4.167	4.32	7.250	6.91	10.33	3.67
1.167	1.51	4.250	5.83	7.333	6.91	10.42	3.67
1.250	2.81	4.333	5.83	7.417	6.91	10.50	3.67
1.333	2.81	4.417	5.83	7.500	6.91	10.58	3.67
1.417	2.81	4.500	5.83	7.583	6.91	10.67	3.67
1.500	2.81	4.583	5.83	7.667	6.91	10.75	2.38
1.583	2.81	4.667	5.83	7.750	6.05	10.83	2.38
1.667	2.81	4.750	7.34	7.833	6.05	10.92	2.38
1.750	2.81	4.833	7.34	7.917	6.05	11.00	2.38
1.833	2.81	4.917	7.34	8.000	6.05	11.08	2.38
1.917	2.81	5.000	7.34	8.083	6.05	11.17	2.38
2.000	2.81	5.083	7.34	8.167	6.05	11.25	2.16
2.083	2.81	5.167	7.34	8.250	4.75	11.33	2.16
2.167	2.81	5.250	11.66	8.333	4.75	11.42	2.16
2.250	3.67	5.333	11.66	8.417	4.75	11.50	2.16
2.333	3.67	5.417	11.66	8.500	4.75	11.58	2.16
2.417	3.67	5.500	11.66	8.583	4.75	11.67	2.16
2.500	3.67	5.583	11.66	8.667	4.75	11.75	2.16
2.583	3.67	5.667	11.66	8.750	4.97	11.83	2.16
2.667	3.67	5.750	92.45	8.833	4.97	11.92	2.16

Unit Hyd Qpeak (cms)= 0.536

PEAK FLOW (cms)= 0.194 (i)
 TIME TO PEAK (hrs)= 6.500
 RUNOFF VOLUME (mm)= 24.067
 TOTAL RAINFALL (mm)= 108.000
 RUNOFF COEFFICIENT = 0.223

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | STANDHYD (0110) | Area (ha)= 1.01
 | ID= 1 DT= 5.0 min | Total Imp(%)= 30.00 Dir. Conn.(%)= 30.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.30	0.71
Dep. Storage (mm)=	1.00	5.00
Average Slope (%)=	1.00	2.00
Length (m)=	81.96	40.00
Mannings n =	0.013	0.350

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	3.24	6.250	23.54	9.33	3.24
0.167	0.00	3.250	4.32	6.333	23.54	9.42	3.24
0.250	3.24	3.333	4.32	6.417	23.54	9.50	3.24
0.333	3.24	3.417	4.32	6.500	23.54	9.58	3.24
0.417	3.24	3.500	4.32	6.583	23.54	9.67	3.24
0.500	3.24	3.583	4.32	6.667	23.54	9.75	2.59
0.583	3.24	3.667	4.32	6.750	10.37	9.83	2.59
0.667	3.24	3.750	4.32	6.833	10.37	9.92	2.59
0.750	1.51	3.833	4.32	6.917	10.37	10.00	2.59
0.833	1.51	3.917	4.32	7.000	10.37	10.08	2.59
0.917	1.51	4.000	4.32	7.083	10.37	10.17	2.59
1.000	1.51	4.083	4.32	7.167	10.37	10.25	3.67
1.083	1.51	4.167	4.32	7.250	6.91	10.33	3.67
1.167	1.51	4.250	5.83	7.333	6.91	10.42	3.67
1.250	2.81	4.333	5.83	7.417	6.91	10.50	3.67

1.333	2.81	4.417	5.83	7.500	6.91	10.58	3.67
1.417	2.81	4.500	5.83	7.583	6.91	10.67	3.67
1.500	2.81	4.583	5.83	7.667	6.91	10.75	2.38
1.583	2.81	4.667	5.83	7.750	6.05	10.83	2.38
1.667	2.81	4.750	7.34	7.833	6.05	10.92	2.38
1.750	2.81	4.833	7.34	7.917	6.05	11.00	2.38
1.833	2.81	4.917	7.34	8.000	6.05	11.08	2.38
1.917	2.81	5.000	7.34	8.083	6.05	11.17	2.38
2.000	2.81	5.083	7.34	8.167	6.05	11.25	2.16
2.083	2.81	5.167	7.34	8.250	4.75	11.33	2.16
2.167	2.81	5.250	11.66	8.333	4.75	11.42	2.16
2.250	3.67	5.333	11.66	8.417	4.75	11.50	2.16
2.333	3.67	5.417	11.66	8.500	4.75	11.58	2.16
2.417	3.67	5.500	11.66	8.583	4.75	11.67	2.16
2.500	3.67	5.583	11.66	8.667	4.75	11.75	2.16
2.583	3.67	5.667	11.66	8.750	4.97	11.83	2.16
2.667	3.67	5.750	92.45	8.833	4.97	11.92	2.16
2.750	3.24	5.833	92.45	8.917	4.97	12.00	2.16
2.833	3.24	5.917	92.45	9.000	4.97	12.08	2.16
2.917	3.24	6.000	92.45	9.083	4.97	12.17	2.16
3.000	3.24	6.083	92.45	9.167	4.97		
3.083	3.24	6.167	92.45	9.250	3.24		

Max.Eff.Inten.(mm/hr)= 92.45 34.55
over (min) 5.00 20.00
Storage Coeff. (min)= 2.34 (ii) 15.55 (ii)
Unit Hyd. Tpeak (min)= 5.00 20.00
Unit Hyd. peak (cms)= 0.30 0.07

TOTALS

PEAK FLOW (cms)= 0.08 0.05 0.118 (iii)
TIME TO PEAK (hrs)= 6.17 6.33 6.17
RUNOFF VOLUME (mm)= 107.00 34.13 55.98
TOTAL RAINFALL (mm)= 108.00 108.00 108.00
RUNOFF COEFFICIENT = 0.99 0.32 0.52

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 55.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| ADD HYD (0006) |
1 + 2 = 3

AREA	QPEAK	TPEAK	R.V.
(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0110):	1.01	0.118	6.17 55.98

+ ID2= 2 (0111): 5.33 0.194 6.50 24.07
=====

ID = 3 (0006): 6.34 0.257 6.42 29.15

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| CALIB |
| NASHYD (0121) | Area (ha)= 2.33 Curve Number (CN)= 54.0
| ID= 1 DT= 5.0 min | Ia (mm)= 22.80 # of Linear Res.(N)= 3.00

U.H. Tp(hrs)= 0.67

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	3.24	6.250	23.54	9.33	3.24
0.167	0.00	3.250	4.32	6.333	23.54	9.42	3.24
0.250	3.24	3.333	4.32	6.417	23.54	9.50	3.24
0.333	3.24	3.417	4.32	6.500	23.54	9.58	3.24
0.417	3.24	3.500	4.32	6.583	23.54	9.67	3.24
0.500	3.24	3.583	4.32	6.667	23.54	9.75	2.59
0.583	3.24	3.667	4.32	6.750	10.37	9.83	2.59
0.667	3.24	3.750	4.32	6.833	10.37	9.92	2.59
0.750	1.51	3.833	4.32	6.917	10.37	10.00	2.59
0.833	1.51	3.917	4.32	7.000	10.37	10.08	2.59
0.917	1.51	4.000	4.32	7.083	10.37	10.17	2.59
1.000	1.51	4.083	4.32	7.167	10.37	10.25	3.67
1.083	1.51	4.167	4.32	7.250	6.91	10.33	3.67
1.167	1.51	4.250	5.83	7.333	6.91	10.42	3.67
1.250	2.81	4.333	5.83	7.417	6.91	10.50	3.67
1.333	2.81	4.417	5.83	7.500	6.91	10.58	3.67
1.417	2.81	4.500	5.83	7.583	6.91	10.67	3.67
1.500	2.81	4.583	5.83	7.667	6.91	10.75	2.38
1.583	2.81	4.667	5.83	7.750	6.05	10.83	2.38
1.667	2.81	4.750	7.34	7.833	6.05	10.92	2.38
1.750	2.81	4.833	7.34	7.917	6.05	11.00	2.38
1.833	2.81	4.917	7.34	8.000	6.05	11.08	2.38
1.917	2.81	5.000	7.34	8.083	6.05	11.17	2.38
2.000	2.81	5.083	7.34	8.167	6.05	11.25	2.16
2.083	2.81	5.167	7.34	8.250	4.75	11.33	2.16
2.167	2.81	5.250	11.66	8.333	4.75	11.42	2.16
2.250	3.67	5.333	11.66	8.417	4.75	11.50	2.16
2.333	3.67	5.417	11.66	8.500	4.75	11.58	2.16
2.417	3.67	5.500	11.66	8.583	4.75	11.67	2.16
2.500	3.67	5.583	11.66	8.667	4.75	11.75	2.16
2.583	3.67	5.667	11.66	8.750	4.97	11.83	2.16
2.667	3.67	5.750	92.45	8.833	4.97	11.92	2.16

2.750	3.24	5.833	92.45	8.917	4.97	12.00	2.16
2.833	3.24	5.917	92.45	9.000	4.97	12.08	2.16
2.917	3.24	6.000	92.45	9.083	4.97	12.17	2.16
3.000	3.24	6.083	92.45	9.167	4.97		
3.083	3.24	6.167	92.45	9.250	3.24		

1.333	2.81	4.417	5.83	7.500	6.91	10.58	3.67
1.417	2.81	4.500	5.83	7.583	6.91	10.67	3.67
1.500	2.81	4.583	5.83	7.667	6.91	10.75	2.38
1.583	2.81	4.667	5.83	7.750	6.05	10.83	2.38
1.667	2.81	4.750	7.34	7.833	6.05	10.92	2.38
1.750	2.81	4.833	7.34	7.917	6.05	11.00	2.38
1.833	2.81	4.917	7.34	8.000	6.05	11.08	2.38
1.917	2.81	5.000	7.34	8.083	6.05	11.17	2.38
2.000	2.81	5.083	7.34	8.167	6.05	11.25	2.16
2.083	2.81	5.167	7.34	8.250	4.75	11.33	2.16
2.167	2.81	5.250	11.66	8.333	4.75	11.42	2.16
2.250	3.67	5.333	11.66	8.417	4.75	11.50	2.16
2.333	3.67	5.417	11.66	8.500	4.75	11.58	2.16
2.417	3.67	5.500	11.66	8.583	4.75	11.67	2.16
2.500	3.67	5.583	11.66	8.667	4.75	11.75	2.16
2.583	3.67	5.667	11.66	8.750	4.97	11.83	2.16
2.667	3.67	5.750	92.45	8.833	4.97	11.92	2.16
2.750	3.24	5.833	92.45	8.917	4.97	12.00	2.16
2.833	3.24	5.917	92.45	9.000	4.97	12.08	2.16
2.917	3.24	6.000	92.45	9.083	4.97	12.17	2.16
3.000	3.24	6.083	92.45	9.167	4.97		
3.083	3.24	6.167	92.45	9.250	3.24		

Unit Hyd Qpeak (cms)= 0.133

PEAK FLOW (cms)= 0.061 (i)
 TIME TO PEAK (hrs)= 6.917
 RUNOFF VOLUME (mm)= 24.070
 TOTAL RAINFALL (mm)= 108.000
 RUNOFF COEFFICIENT = 0.223

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| CALIB |
| STANDHYD ( 0120) | Area (ha)= 0.82
| ID= 1 DT= 5.0 min | Total Imp(%)= 32.00 Dir. Conn.(%)= 32.00
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	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.26	0.56
Dep. Storage (mm)=	1.00	5.00
Average Slope (%)=	1.00	2.00
Length (m)=	73.80	40.00
Mannings n =	0.013	0.350

Max.Eff.Inten.(mm/hr)=	92.45	34.55
over (min)	5.00	20.00
Storage Coeff. (min)=	2.20 (ii)	15.41 (ii)
Unit Hyd. Tpeak (min)=	5.00	20.00
Unit Hyd. peak (cms)=	0.30	0.07

TOTALS

PEAK FLOW (cms)=	0.07	0.04	0.099 (iii)
TIME TO PEAK (hrs)=	6.08	6.33	6.17
RUNOFF VOLUME (mm)=	107.00	34.13	57.44
TOTAL RAINFALL (mm)=	108.00	108.00	108.00
RUNOFF COEFFICIENT =	0.99	0.32	0.53

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

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----- TRANSFORMED HYETOGRAPH -----
TIME RAIN | TIME RAIN | TIME RAIN | TIME RAIN
hrs mm/hr | hrs mm/hr | hrs mm/hr | hrs mm/hr
0.083 0.00 | 3.167 3.24 | 6.250 23.54 | 9.33 3.24
0.167 0.00 | 3.250 4.32 | 6.333 23.54 | 9.42 3.24
0.250 3.24 | 3.333 4.32 | 6.417 23.54 | 9.50 3.24
0.333 3.24 | 3.417 4.32 | 6.500 23.54 | 9.58 3.24
0.417 3.24 | 3.500 4.32 | 6.583 23.54 | 9.67 3.24
0.500 3.24 | 3.583 4.32 | 6.667 23.54 | 9.75 2.59
0.583 3.24 | 3.667 4.32 | 6.750 10.37 | 9.83 2.59
0.667 3.24 | 3.750 4.32 | 6.833 10.37 | 9.92 2.59
0.750 1.51 | 3.833 4.32 | 6.917 10.37 | 10.00 2.59
0.833 1.51 | 3.917 4.32 | 7.000 10.37 | 10.08 2.59
0.917 1.51 | 4.000 4.32 | 7.083 10.37 | 10.17 2.59
1.000 1.51 | 4.083 4.32 | 7.167 10.37 | 10.25 3.67
1.083 1.51 | 4.167 4.32 | 7.250 6.91 | 10.33 3.67
1.167 1.51 | 4.250 5.83 | 7.333 6.91 | 10.42 3.67
1.250 2.81 | 4.333 5.83 | 7.417 6.91 | 10.50 3.67
  
```

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
 CN* = 55.0 Ia = Dep. Storage (Above)
 (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
 THAN THE STORAGE COEFFICIENT.
 (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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-----
| ADD HYD ( 0009) |
| 1 + 2 = 3 |
-----
ID1= 1 ( 0120): AREA QPEAK TPEAK R.V.
                  (ha) (cms) (hrs) (mm)
                  0.82 0.099 6.17 57.44
  
```

+ ID2= 2 (0121): 2.33 0.061 6.92 24.07
 =====
 ID = 3 (0009): 3.15 0.119 6.17 32.76

2.750	3.24	5.833	92.45	8.917	4.97	12.00	2.16
2.833	3.24	5.917	92.45	9.000	4.97	12.08	2.16
2.917	3.24	6.000	92.45	9.083	4.97	12.17	2.16
3.000	3.24	6.083	92.45	9.167	4.97		
3.083	3.24	6.167	92.45	9.250	3.24		

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

 | CALIB |
 | NASHYD (0131) | Area (ha)= 10.63 Curve Number (CN)= 54.0
 | ID= 1 DT= 5.0 min | Ia (mm)= 22.80 # of Linear Res.(N)= 3.00

 U.H. Tp(hrs)= 0.69

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	3.24	6.250	23.54	9.33	3.24
0.167	0.00	3.250	4.32	6.333	23.54	9.42	3.24
0.250	3.24	3.333	4.32	6.417	23.54	9.50	3.24
0.333	3.24	3.417	4.32	6.500	23.54	9.58	3.24
0.417	3.24	3.500	4.32	6.583	23.54	9.67	3.24
0.500	3.24	3.583	4.32	6.667	23.54	9.75	2.59
0.583	3.24	3.667	4.32	6.750	10.37	9.83	2.59
0.667	3.24	3.750	4.32	6.833	10.37	9.92	2.59
0.750	1.51	3.833	4.32	6.917	10.37	10.00	2.59
0.833	1.51	3.917	4.32	7.000	10.37	10.08	2.59
0.917	1.51	4.000	4.32	7.083	10.37	10.17	2.59
1.000	1.51	4.083	4.32	7.167	10.37	10.25	3.67
1.083	1.51	4.167	4.32	7.250	6.91	10.33	3.67
1.167	1.51	4.250	5.83	7.333	6.91	10.42	3.67
1.250	2.81	4.333	5.83	7.417	6.91	10.50	3.67
1.333	2.81	4.417	5.83	7.500	6.91	10.58	3.67
1.417	2.81	4.500	5.83	7.583	6.91	10.67	3.67
1.500	2.81	4.583	5.83	7.667	6.91	10.75	2.38
1.583	2.81	4.667	5.83	7.750	6.05	10.83	2.38
1.667	2.81	4.750	7.34	7.833	6.05	10.92	2.38
1.750	2.81	4.833	7.34	7.917	6.05	11.00	2.38
1.833	2.81	4.917	7.34	8.000	6.05	11.08	2.38
1.917	2.81	5.000	7.34	8.083	6.05	11.17	2.38
2.000	2.81	5.083	7.34	8.167	6.05	11.25	2.16
2.083	2.81	5.167	7.34	8.250	4.75	11.33	2.16
2.167	2.81	5.250	11.66	8.333	4.75	11.42	2.16
2.250	3.67	5.333	11.66	8.417	4.75	11.50	2.16
2.333	3.67	5.417	11.66	8.500	4.75	11.58	2.16
2.417	3.67	5.500	11.66	8.583	4.75	11.67	2.16
2.500	3.67	5.583	11.66	8.667	4.75	11.75	2.16
2.583	3.67	5.667	11.66	8.750	4.97	11.83	2.16
2.667	3.67	5.750	92.45	8.833	4.97	11.92	2.16

Unit Hyd Qpeak (cms)= 0.588

PEAK FLOW (cms)= 0.274 (i)
 TIME TO PEAK (hrs)= 6.917
 RUNOFF VOLUME (mm)= 24.070
 TOTAL RAINFALL (mm)= 108.000
 RUNOFF COEFFICIENT = 0.223

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | STANDHYD (0130) | Area (ha)= 1.57
 | ID= 1 DT= 5.0 min | Total Imp(%)= 34.00 Dir. Conn.(%)= 34.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.53	1.04
Dep. Storage (mm)=	1.00	5.00
Average Slope (%)=	1.00	2.00
Length (m)=	102.35	40.00
Mannings n =	0.013	0.350

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	3.24	6.250	23.54	9.33	3.24
0.167	0.00	3.250	4.32	6.333	23.54	9.42	3.24
0.250	3.24	3.333	4.32	6.417	23.54	9.50	3.24
0.333	3.24	3.417	4.32	6.500	23.54	9.58	3.24
0.417	3.24	3.500	4.32	6.583	23.54	9.67	3.24
0.500	3.24	3.583	4.32	6.667	23.54	9.75	2.59
0.583	3.24	3.667	4.32	6.750	10.37	9.83	2.59
0.667	3.24	3.750	4.32	6.833	10.37	9.92	2.59
0.750	1.51	3.833	4.32	6.917	10.37	10.00	2.59
0.833	1.51	3.917	4.32	7.000	10.37	10.08	2.59
0.917	1.51	4.000	4.32	7.083	10.37	10.17	2.59
1.000	1.51	4.083	4.32	7.167	10.37	10.25	3.67
1.083	1.51	4.167	4.32	7.250	6.91	10.33	3.67
1.167	1.51	4.250	5.83	7.333	6.91	10.42	3.67
1.250	2.81	4.333	5.83	7.417	6.91	10.50	3.67

1.333	2.81	4.417	5.83	7.500	6.91	10.58	3.67
1.417	2.81	4.500	5.83	7.583	6.91	10.67	3.67
1.500	2.81	4.583	5.83	7.667	6.91	10.75	2.38
1.583	2.81	4.667	5.83	7.750	6.05	10.83	2.38
1.667	2.81	4.750	7.34	7.833	6.05	10.92	2.38
1.750	2.81	4.833	7.34	7.917	6.05	11.00	2.38
1.833	2.81	4.917	7.34	8.000	6.05	11.08	2.38
1.917	2.81	5.000	7.34	8.083	6.05	11.17	2.38
2.000	2.81	5.083	7.34	8.167	6.05	11.25	2.16
2.083	2.81	5.167	7.34	8.250	4.75	11.33	2.16
2.167	2.81	5.250	11.66	8.333	4.75	11.42	2.16
2.250	3.67	5.333	11.66	8.417	4.75	11.50	2.16
2.333	3.67	5.417	11.66	8.500	4.75	11.58	2.16
2.417	3.67	5.500	11.66	8.583	4.75	11.67	2.16
2.500	3.67	5.583	11.66	8.667	4.75	11.75	2.16
2.583	3.67	5.667	11.66	8.750	4.97	11.83	2.16
2.667	3.67	5.750	92.45	8.833	4.97	11.92	2.16
2.750	3.24	5.833	92.45	8.917	4.97	12.00	2.16
2.833	3.24	5.917	92.45	9.000	4.97	12.08	2.16
2.917	3.24	6.000	92.45	9.083	4.97	12.17	2.16
3.000	3.24	6.083	92.45	9.167	4.97		
3.083	3.24	6.167	92.45	9.250	3.24		

Max.Eff.Inten.(mm/hr)= 92.45 34.55
over (min) 5.00 20.00
Storage Coeff. (min)= 2.67 (ii) 15.88 (ii)
Unit Hyd. Tpeak (min)= 5.00 20.00
Unit Hyd. peak (cms)= 0.29 0.07

TOTALS

PEAK FLOW (cms)= 0.14 0.07 0.196 (iii)
TIME TO PEAK (hrs)= 6.17 6.33 6.17
RUNOFF VOLUME (mm)= 107.00 34.13 58.90
TOTAL RAINFALL (mm)= 108.00 108.00 108.00
RUNOFF COEFFICIENT = 0.99 0.32 0.55

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 55.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| ADD HYD (0012) |
1 + 2 = 3
ID1= 1 (0130):

AREA	QPEAK	TPEAK	R.V.
(ha)	(cms)	(hrs)	(mm)
1.57	0.196	6.17	58.90

+ ID2= 2 (0131): 10.63 0.274 6.92 24.07
=====

ID = 3 (0012): 12.20 0.332 6.67 28.55

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| CALIB |
| NASHYD (0141) | Area (ha)= 7.22 Curve Number (CN)= 65.0
| ID= 1 DT= 5.0 min | Ia (mm)= 14.60 # of Linear Res.(N)= 3.00

U.H. Tp(hrs)= 0.54

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	3.24	6.250	23.54	9.33	3.24
0.167	0.00	3.250	4.32	6.333	23.54	9.42	3.24
0.250	3.24	3.333	4.32	6.417	23.54	9.50	3.24
0.333	3.24	3.417	4.32	6.500	23.54	9.58	3.24
0.417	3.24	3.500	4.32	6.583	23.54	9.67	3.24
0.500	3.24	3.583	4.32	6.667	23.54	9.75	2.59
0.583	3.24	3.667	4.32	6.750	10.37	9.83	2.59
0.667	3.24	3.750	4.32	6.833	10.37	9.92	2.59
0.750	1.51	3.833	4.32	6.917	10.37	10.00	2.59
0.833	1.51	3.917	4.32	7.000	10.37	10.08	2.59
0.917	1.51	4.000	4.32	7.083	10.37	10.17	2.59
1.000	1.51	4.083	4.32	7.167	10.37	10.25	3.67
1.083	1.51	4.167	4.32	7.250	6.91	10.33	3.67
1.167	1.51	4.250	5.83	7.333	6.91	10.42	3.67
1.250	2.81	4.333	5.83	7.417	6.91	10.50	3.67
1.333	2.81	4.417	5.83	7.500	6.91	10.58	3.67
1.417	2.81	4.500	5.83	7.583	6.91	10.67	3.67
1.500	2.81	4.583	5.83	7.667	6.91	10.75	2.38
1.583	2.81	4.667	5.83	7.750	6.05	10.83	2.38
1.667	2.81	4.750	7.34	7.833	6.05	10.92	2.38
1.750	2.81	4.833	7.34	7.917	6.05	11.00	2.38
1.833	2.81	4.917	7.34	8.000	6.05	11.08	2.38
1.917	2.81	5.000	7.34	8.083	6.05	11.17	2.38
2.000	2.81	5.083	7.34	8.167	6.05	11.25	2.16
2.083	2.81	5.167	7.34	8.250	4.75	11.33	2.16
2.167	2.81	5.250	11.66	8.333	4.75	11.42	2.16
2.250	3.67	5.333	11.66	8.417	4.75	11.50	2.16
2.333	3.67	5.417	11.66	8.500	4.75	11.58	2.16
2.417	3.67	5.500	11.66	8.583	4.75	11.67	2.16
2.500	3.67	5.583	11.66	8.667	4.75	11.75	2.16
2.583	3.67	5.667	11.66	8.750	4.97	11.83	2.16
2.667	3.67	5.750	92.45	8.833	4.97	11.92	2.16

2.750	3.24	5.833	92.45	8.917	4.97	12.00	2.16
2.833	3.24	5.917	92.45	9.000	4.97	12.08	2.16
2.917	3.24	6.000	92.45	9.083	4.97	12.17	2.16
3.000	3.24	6.083	92.45	9.167	4.97		
3.083	3.24	6.167	92.45	9.250	3.24		

1.333	2.81	4.417	5.83	7.500	6.91	10.58	3.67
1.417	2.81	4.500	5.83	7.583	6.91	10.67	3.67
1.500	2.81	4.583	5.83	7.667	6.91	10.75	2.38
1.583	2.81	4.667	5.83	7.750	6.05	10.83	2.38
1.667	2.81	4.750	7.34	7.833	6.05	10.92	2.38
1.750	2.81	4.833	7.34	7.917	6.05	11.00	2.38
1.833	2.81	4.917	7.34	8.000	6.05	11.08	2.38
1.917	2.81	5.000	7.34	8.083	6.05	11.17	2.38
2.000	2.81	5.083	7.34	8.167	6.05	11.25	2.16
2.083	2.81	5.167	7.34	8.250	4.75	11.33	2.16
2.167	2.81	5.250	11.66	8.333	4.75	11.42	2.16
2.250	3.67	5.333	11.66	8.417	4.75	11.50	2.16
2.333	3.67	5.417	11.66	8.500	4.75	11.58	2.16
2.417	3.67	5.500	11.66	8.583	4.75	11.67	2.16
2.500	3.67	5.583	11.66	8.667	4.75	11.75	2.16
2.583	3.67	5.667	11.66	8.750	4.97	11.83	2.16
2.667	3.67	5.750	92.45	8.833	4.97	11.92	2.16
2.750	3.24	5.833	92.45	8.917	4.97	12.00	2.16
2.833	3.24	5.917	92.45	9.000	4.97	12.08	2.16
2.917	3.24	6.000	92.45	9.083	4.97	12.17	2.16
3.000	3.24	6.083	92.45	9.167	4.97		
3.083	3.24	6.167	92.45	9.250	3.24		

Unit Hyd Qpeak (cms)= 0.511

PEAK FLOW (cms)= 0.364 (i)

TIME TO PEAK (hrs)= 6.667

RUNOFF VOLUME (mm)= 37.899

TOTAL RAINFALL (mm)= 108.000

RUNOFF COEFFICIENT = 0.351

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	
STANDHYD (0140)	Area (ha)= 0.76
ID= 1 DT= 5.0 min	Total Imp(%)= 26.00 Dir. Conn.(%)= 26.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.20	0.56
Dep. Storage (mm)=	1.00	5.00
Average Slope (%)=	1.00	2.00
Length (m)=	71.35	40.00
Mannings n =	0.013	0.350

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	3.24	6.250	23.54	9.33	3.24
0.167	0.00	3.250	4.32	6.333	23.54	9.42	3.24
0.250	3.24	3.333	4.32	6.417	23.54	9.50	3.24
0.333	3.24	3.417	4.32	6.500	23.54	9.58	3.24
0.417	3.24	3.500	4.32	6.583	23.54	9.67	3.24
0.500	3.24	3.583	4.32	6.667	23.54	9.75	2.59
0.583	3.24	3.667	4.32	6.750	10.37	9.83	2.59
0.667	3.24	3.750	4.32	6.833	10.37	9.92	2.59
0.750	1.51	3.833	4.32	6.917	10.37	10.00	2.59
0.833	1.51	3.917	4.32	7.000	10.37	10.08	2.59
0.917	1.51	4.000	4.32	7.083	10.37	10.17	2.59
1.000	1.51	4.083	4.32	7.167	10.37	10.25	3.67
1.083	1.51	4.167	4.32	7.250	6.91	10.33	3.67
1.167	1.51	4.250	5.83	7.333	6.91	10.42	3.67
1.250	2.81	4.333	5.83	7.417	6.91	10.50	3.67

Max.Eff.Inten.(mm/hr)=	92.45	34.55
over (min)	5.00	20.00
Storage Coeff. (min)=	2.15 (ii)	15.36 (ii)
Unit Hyd. Tpeak (min)=	5.00	20.00
Unit Hyd. peak (cms)=	0.31	0.07

TOTALS

PEAK FLOW (cms)=	0.05	0.04	0.083 (iii)
TIME TO PEAK (hrs)=	6.08	6.33	6.17
RUNOFF VOLUME (mm)=	107.00	34.13	53.06
TOTAL RAINFALL (mm)=	108.00	108.00	108.00
RUNOFF COEFFICIENT =	0.99	0.32	0.49

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 55.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0015)				
1 + 2 = 3	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0140):	0.76	0.083	6.17	53.06

+ ID2= 2 (0141): 7.22 0.364 6.67 37.90
 =====
 ID = 3 (0015): 7.98 0.401 6.67 39.34

2.750	3.24	5.833	92.45	8.917	4.97	12.00	2.16
2.833	3.24	5.917	92.45	9.000	4.97	12.08	2.16
2.917	3.24	6.000	92.45	9.083	4.97	12.17	2.16
3.000	3.24	6.083	92.45	9.167	4.97		
3.083	3.24	6.167	92.45	9.250	3.24		

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

 | CALIB |
 | NASHYD (0151) | Area (ha)= 14.07 Curve Number (CN)= 66.0
 | ID= 1 DT= 5.0 min | Ia (mm)= 14.20 # of Linear Res.(N)= 3.00

 U.H. Tp(hrs)= 0.18

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	3.24	6.250	23.54	9.33	3.24
0.167	0.00	3.250	4.32	6.333	23.54	9.42	3.24
0.250	3.24	3.333	4.32	6.417	23.54	9.50	3.24
0.333	3.24	3.417	4.32	6.500	23.54	9.58	3.24
0.417	3.24	3.500	4.32	6.583	23.54	9.67	3.24
0.500	3.24	3.583	4.32	6.667	23.54	9.75	2.59
0.583	3.24	3.667	4.32	6.750	10.37	9.83	2.59
0.667	3.24	3.750	4.32	6.833	10.37	9.92	2.59
0.750	1.51	3.833	4.32	6.917	10.37	10.00	2.59
0.833	1.51	3.917	4.32	7.000	10.37	10.08	2.59
0.917	1.51	4.000	4.32	7.083	10.37	10.17	2.59
1.000	1.51	4.083	4.32	7.167	10.37	10.25	3.67
1.083	1.51	4.167	4.32	7.250	6.91	10.33	3.67
1.167	1.51	4.250	5.83	7.333	6.91	10.42	3.67
1.250	2.81	4.333	5.83	7.417	6.91	10.50	3.67
1.333	2.81	4.417	5.83	7.500	6.91	10.58	3.67
1.417	2.81	4.500	5.83	7.583	6.91	10.67	3.67
1.500	2.81	4.583	5.83	7.667	6.91	10.75	2.38
1.583	2.81	4.667	5.83	7.750	6.05	10.83	2.38
1.667	2.81	4.750	7.34	7.833	6.05	10.92	2.38
1.750	2.81	4.833	7.34	7.917	6.05	11.00	2.38
1.833	2.81	4.917	7.34	8.000	6.05	11.08	2.38
1.917	2.81	5.000	7.34	8.083	6.05	11.17	2.38
2.000	2.81	5.083	7.34	8.167	6.05	11.25	2.16
2.083	2.81	5.167	7.34	8.250	4.75	11.33	2.16
2.167	2.81	5.250	11.66	8.333	4.75	11.42	2.16
2.250	3.67	5.333	11.66	8.417	4.75	11.50	2.16
2.333	3.67	5.417	11.66	8.500	4.75	11.58	2.16
2.417	3.67	5.500	11.66	8.583	4.75	11.67	2.16
2.500	3.67	5.583	11.66	8.667	4.75	11.75	2.16
2.583	3.67	5.667	11.66	8.750	4.97	11.83	2.16
2.667	3.67	5.750	92.45	8.833	4.97	11.92	2.16

Unit Hyd Qpeak (cms)= 2.986

PEAK FLOW (cms)= 1.341 (i)
 TIME TO PEAK (hrs)= 6.167
 RUNOFF VOLUME (mm)= 39.053
 TOTAL RAINFALL (mm)= 108.000
 RUNOFF COEFFICIENT = 0.362

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | STANDHYD (0150) | Area (ha)= 1.35
 | ID= 1 DT= 5.0 min | Total Imp(%)= 26.00 Dir. Conn.(%)= 26.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.35	1.00
Dep. Storage (mm)=	1.00	5.00
Average Slope (%)=	1.00	2.00
Length (m)=	94.72	40.00
Mannings n =	0.013	0.350

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	3.24	6.250	23.54	9.33	3.24
0.167	0.00	3.250	4.32	6.333	23.54	9.42	3.24
0.250	3.24	3.333	4.32	6.417	23.54	9.50	3.24
0.333	3.24	3.417	4.32	6.500	23.54	9.58	3.24
0.417	3.24	3.500	4.32	6.583	23.54	9.67	3.24
0.500	3.24	3.583	4.32	6.667	23.54	9.75	2.59
0.583	3.24	3.667	4.32	6.750	10.37	9.83	2.59
0.667	3.24	3.750	4.32	6.833	10.37	9.92	2.59
0.750	1.51	3.833	4.32	6.917	10.37	10.00	2.59
0.833	1.51	3.917	4.32	7.000	10.37	10.08	2.59
0.917	1.51	4.000	4.32	7.083	10.37	10.17	2.59
1.000	1.51	4.083	4.32	7.167	10.37	10.25	3.67
1.083	1.51	4.167	4.32	7.250	6.91	10.33	3.67
1.167	1.51	4.250	5.83	7.333	6.91	10.42	3.67
1.250	2.81	4.333	5.83	7.417	6.91	10.50	3.67

1.333	2.81	4.417	5.83	7.500	6.91	10.58	3.67
1.417	2.81	4.500	5.83	7.583	6.91	10.67	3.67
1.500	2.81	4.583	5.83	7.667	6.91	10.75	2.38
1.583	2.81	4.667	5.83	7.750	6.05	10.83	2.38
1.667	2.81	4.750	7.34	7.833	6.05	10.92	2.38
1.750	2.81	4.833	7.34	7.917	6.05	11.00	2.38
1.833	2.81	4.917	7.34	8.000	6.05	11.08	2.38
1.917	2.81	5.000	7.34	8.083	6.05	11.17	2.38
2.000	2.81	5.083	7.34	8.167	6.05	11.25	2.16
2.083	2.81	5.167	7.34	8.250	4.75	11.33	2.16
2.167	2.81	5.250	11.66	8.333	4.75	11.42	2.16
2.250	3.67	5.333	11.66	8.417	4.75	11.50	2.16
2.333	3.67	5.417	11.66	8.500	4.75	11.58	2.16
2.417	3.67	5.500	11.66	8.583	4.75	11.67	2.16
2.500	3.67	5.583	11.66	8.667	4.75	11.75	2.16
2.583	3.67	5.667	11.66	8.750	4.97	11.83	2.16
2.667	3.67	5.750	92.45	8.833	4.97	11.92	2.16
2.750	3.24	5.833	92.45	8.917	4.97	12.00	2.16
2.833	3.24	5.917	92.45	9.000	4.97	12.08	2.16
2.917	3.24	6.000	92.45	9.083	4.97	12.17	2.16
3.000	3.24	6.083	92.45	9.167	4.97		
3.083	3.24	6.167	92.45	9.250	3.24		

Max.Eff.Inten.(mm/hr)= 92.45 34.55
over (min) 5.00 20.00
Storage Coeff. (min)= 2.55 (ii) 15.76 (ii)
Unit Hyd. Tpeak (min)= 5.00 20.00
Unit Hyd. peak (cms)= 0.29 0.07

TOTALS

PEAK FLOW (cms)= 0.09 0.07 0.147 (iii)
TIME TO PEAK (hrs)= 6.17 6.33 6.17
RUNOFF VOLUME (mm)= 107.00 34.13 53.07
TOTAL RAINFALL (mm)= 108.00 108.00 108.00
RUNOFF COEFFICIENT = 0.99 0.32 0.49

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 55.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| ADD HYD (0018) |
1 + 2 = 3

ID1= 1 (0150):	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
	1.35	0.147	6.17	53.07

+ ID2= 2 (0151): 14.07 1.341 6.17 39.05
=====

ID = 3 (0018): 15.42 1.488 6.17 40.28

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| CALIB |
| NASHYD (0161) | Area (ha)= 131.28 Curve Number (CN)= 75.0
| ID= 1 DT= 5.0 min | Ia (mm)= 8.60 # of Linear Res.(N)= 3.00

U.H. Tp(hrs)= 0.95

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	3.24	6.250	23.54	9.33	3.24
0.167	0.00	3.250	4.32	6.333	23.54	9.42	3.24
0.250	3.24	3.333	4.32	6.417	23.54	9.50	3.24
0.333	3.24	3.417	4.32	6.500	23.54	9.58	3.24
0.417	3.24	3.500	4.32	6.583	23.54	9.67	3.24
0.500	3.24	3.583	4.32	6.667	23.54	9.75	2.59
0.583	3.24	3.667	4.32	6.750	10.37	9.83	2.59
0.667	3.24	3.750	4.32	6.833	10.37	9.92	2.59
0.750	1.51	3.833	4.32	6.917	10.37	10.00	2.59
0.833	1.51	3.917	4.32	7.000	10.37	10.08	2.59
0.917	1.51	4.000	4.32	7.083	10.37	10.17	2.59
1.000	1.51	4.083	4.32	7.167	10.37	10.25	3.67
1.083	1.51	4.167	4.32	7.250	6.91	10.33	3.67
1.167	1.51	4.250	5.83	7.333	6.91	10.42	3.67
1.250	2.81	4.333	5.83	7.417	6.91	10.50	3.67
1.333	2.81	4.417	5.83	7.500	6.91	10.58	3.67
1.417	2.81	4.500	5.83	7.583	6.91	10.67	3.67
1.500	2.81	4.583	5.83	7.667	6.91	10.75	2.38
1.583	2.81	4.667	5.83	7.750	6.05	10.83	2.38
1.667	2.81	4.750	7.34	7.833	6.05	10.92	2.38
1.750	2.81	4.833	7.34	7.917	6.05	11.00	2.38
1.833	2.81	4.917	7.34	8.000	6.05	11.08	2.38
1.917	2.81	5.000	7.34	8.083	6.05	11.17	2.38
2.000	2.81	5.083	7.34	8.167	6.05	11.25	2.16
2.083	2.81	5.167	7.34	8.250	4.75	11.33	2.16
2.167	2.81	5.250	11.66	8.333	4.75	11.42	2.16
2.250	3.67	5.333	11.66	8.417	4.75	11.50	2.16
2.333	3.67	5.417	11.66	8.500	4.75	11.58	2.16
2.417	3.67	5.500	11.66	8.583	4.75	11.67	2.16
2.500	3.67	5.583	11.66	8.667	4.75	11.75	2.16
2.583	3.67	5.667	11.66	8.750	4.97	11.83	2.16
2.667	3.67	5.750	92.45	8.833	4.97	11.92	2.16

2.750	3.24	5.833	92.45	8.917	4.97	12.00	2.16
2.833	3.24	5.917	92.45	9.000	4.97	12.08	2.16
2.917	3.24	6.000	92.45	9.083	4.97	12.17	2.16
3.000	3.24	6.083	92.45	9.167	4.97		
3.083	3.24	6.167	92.45	9.250	3.24		

1.333	2.81	4.417	5.83	7.500	6.91	10.58	3.67
1.417	2.81	4.500	5.83	7.583	6.91	10.67	3.67
1.500	2.81	4.583	5.83	7.667	6.91	10.75	2.38
1.583	2.81	4.667	5.83	7.750	6.05	10.83	2.38
1.667	2.81	4.750	7.34	7.833	6.05	10.92	2.38
1.750	2.81	4.833	7.34	7.917	6.05	11.00	2.38
1.833	2.81	4.917	7.34	8.000	6.05	11.08	2.38
1.917	2.81	5.000	7.34	8.083	6.05	11.17	2.38
2.000	2.81	5.083	7.34	8.167	6.05	11.25	2.16
2.083	2.81	5.167	7.34	8.250	4.75	11.33	2.16
2.167	2.81	5.250	11.66	8.333	4.75	11.42	2.16
2.250	3.67	5.333	11.66	8.417	4.75	11.50	2.16
2.333	3.67	5.417	11.66	8.500	4.75	11.58	2.16
2.417	3.67	5.500	11.66	8.583	4.75	11.67	2.16
2.500	3.67	5.583	11.66	8.667	4.75	11.75	2.16
2.583	3.67	5.667	11.66	8.750	4.97	11.83	2.16
2.667	3.67	5.750	92.45	8.833	4.97	11.92	2.16
2.750	3.24	5.833	92.45	8.917	4.97	12.00	2.16
2.833	3.24	5.917	92.45	9.000	4.97	12.08	2.16
2.917	3.24	6.000	92.45	9.083	4.97	12.17	2.16
3.000	3.24	6.083	92.45	9.167	4.97		
3.083	3.24	6.167	92.45	9.250	3.24		

Unit Hyd Qpeak (cms)= 5.278

PEAK FLOW (cms)= 6.707 (i)
 TIME TO PEAK (hrs)= 7.083
 RUNOFF VOLUME (mm)= 53.678
 TOTAL RAINFALL (mm)= 108.000
 RUNOFF COEFFICIENT = 0.497

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| CALIB |
| STANDHYD ( 0160) | Area (ha)= 3.05
| ID= 1 DT= 5.0 min | Total Imp(%)= 28.00 Dir. Conn.(%)= 28.00
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	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.85	2.20
Dep. Storage (mm)=	1.00	5.00
Average Slope (%)=	1.00	2.00
Length (m)=	142.49	40.00
Mannings n =	0.013	0.350

Max.Eff.Inten.(mm/hr)=	92.45	34.55
over (min)	5.00	20.00
Storage Coeff. (min)=	3.26 (ii)	16.47 (ii)
Unit Hyd. Tpeak (min)=	5.00	20.00
Unit Hyd. peak (cms)=	0.27	0.06

TOTALS

PEAK FLOW (cms)=	0.22	0.14	0.342 (iii)
TIME TO PEAK (hrs)=	6.17	6.33	6.17
RUNOFF VOLUME (mm)=	107.00	34.13	54.53
TOTAL RAINFALL (mm)=	108.00	108.00	108.00
RUNOFF COEFFICIENT =	0.99	0.32	0.50

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

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----- TRANSFORMED HYETOGRAPH -----
TIME RAIN | TIME RAIN | TIME RAIN | TIME RAIN
hrs mm/hr | hrs mm/hr | hrs mm/hr | hrs mm/hr
0.083 0.00 | 3.167 3.24 | 6.250 23.54 | 9.33 3.24
0.167 0.00 | 3.250 4.32 | 6.333 23.54 | 9.42 3.24
0.250 3.24 | 3.333 4.32 | 6.417 23.54 | 9.50 3.24
0.333 3.24 | 3.417 4.32 | 6.500 23.54 | 9.58 3.24
0.417 3.24 | 3.500 4.32 | 6.583 23.54 | 9.67 3.24
0.500 3.24 | 3.583 4.32 | 6.667 23.54 | 9.75 2.59
0.583 3.24 | 3.667 4.32 | 6.750 10.37 | 9.83 2.59
0.667 3.24 | 3.750 4.32 | 6.833 10.37 | 9.92 2.59
0.750 1.51 | 3.833 4.32 | 6.917 10.37 | 10.00 2.59
0.833 1.51 | 3.917 4.32 | 7.000 10.37 | 10.08 2.59
0.917 1.51 | 4.000 4.32 | 7.083 10.37 | 10.17 2.59
1.000 1.51 | 4.083 4.32 | 7.167 10.37 | 10.25 3.67
1.083 1.51 | 4.167 4.32 | 7.250 6.91 | 10.33 3.67
1.167 1.51 | 4.250 5.83 | 7.333 6.91 | 10.42 3.67
1.250 2.81 | 4.333 5.83 | 7.417 6.91 | 10.50 3.67

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***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
 CN* = 55.0 Ia = Dep. Storage (Above)
 (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
 THAN THE STORAGE COEFFICIENT.
 (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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-----
| ADD HYD ( 0021) |
| 1 + 2 = 3 |
-----
ID1= 1 ( 0160): AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)
3.05 0.342 6.17 54.53

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+ ID2= 2 (0161): 131.28 6.707 7.08 53.68
 ID = 3 (0021): 134.33 6.782 7.08 53.70

2.750	3.24	5.833	92.45	8.917	4.97	12.00	2.16
2.833	3.24	5.917	92.45	9.000	4.97	12.08	2.16
2.917	3.24	6.000	92.45	9.083	4.97	12.17	2.16
3.000	3.24	6.083	92.45	9.167	4.97		
3.083	3.24	6.167	92.45	9.250	3.24		

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| CALIB |
| NASHYD ( 0171) | Area (ha)= 32.39 Curve Number (CN)= 59.0
| ID= 1 DT= 5.0 min | Ia (mm)= 19.10 # of Linear Res.(N)= 3.00
-----
| U.H. Tp(hrs)= 0.89
  
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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	3.24	6.250	23.54	9.33	3.24
0.167	0.00	3.250	4.32	6.333	23.54	9.42	3.24
0.250	3.24	3.333	4.32	6.417	23.54	9.50	3.24
0.333	3.24	3.417	4.32	6.500	23.54	9.58	3.24
0.417	3.24	3.500	4.32	6.583	23.54	9.67	3.24
0.500	3.24	3.583	4.32	6.667	23.54	9.75	2.59
0.583	3.24	3.667	4.32	6.750	10.37	9.83	2.59
0.667	3.24	3.750	4.32	6.833	10.37	9.92	2.59
0.750	1.51	3.833	4.32	6.917	10.37	10.00	2.59
0.833	1.51	3.917	4.32	7.000	10.37	10.08	2.59
0.917	1.51	4.000	4.32	7.083	10.37	10.17	2.59
1.000	1.51	4.083	4.32	7.167	10.37	10.25	3.67
1.083	1.51	4.167	4.32	7.250	6.91	10.33	3.67
1.167	1.51	4.250	5.83	7.333	6.91	10.42	3.67
1.250	2.81	4.333	5.83	7.417	6.91	10.50	3.67
1.333	2.81	4.417	5.83	7.500	6.91	10.58	3.67
1.417	2.81	4.500	5.83	7.583	6.91	10.67	3.67
1.500	2.81	4.583	5.83	7.667	6.91	10.75	2.38
1.583	2.81	4.667	5.83	7.750	6.05	10.83	2.38
1.667	2.81	4.750	7.34	7.833	6.05	10.92	2.38
1.750	2.81	4.833	7.34	7.917	6.05	11.00	2.38
1.833	2.81	4.917	7.34	8.000	6.05	11.08	2.38
1.917	2.81	5.000	7.34	8.083	6.05	11.17	2.38
2.000	2.81	5.083	7.34	8.167	6.05	11.25	2.16
2.083	2.81	5.167	7.34	8.250	4.75	11.33	2.16
2.167	2.81	5.250	11.66	8.333	4.75	11.42	2.16
2.250	3.67	5.333	11.66	8.417	4.75	11.50	2.16
2.333	3.67	5.417	11.66	8.500	4.75	11.58	2.16
2.417	3.67	5.500	11.66	8.583	4.75	11.67	2.16
2.500	3.67	5.583	11.66	8.667	4.75	11.75	2.16
2.583	3.67	5.667	11.66	8.750	4.97	11.83	2.16
2.667	3.67	5.750	92.45	8.833	4.97	11.92	2.16

Unit Hyd Qpeak (cms)= 1.390

PEAK FLOW (cms)= 0.897 (i)
 TIME TO PEAK (hrs)= 7.167
 RUNOFF VOLUME (mm)= 29.777
 TOTAL RAINFALL (mm)= 108.000
 RUNOFF COEFFICIENT = 0.276

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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-----
| CALIB |
| NASHYD ( 0180) | Area (ha)= 2.46 Curve Number (CN)= 55.0
| ID= 1 DT= 5.0 min | Ia (mm)= 22.60 # of Linear Res.(N)= 3.00
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| U.H. Tp(hrs)= 0.99
  
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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	3.24	6.250	23.54	9.33	3.24
0.167	0.00	3.250	4.32	6.333	23.54	9.42	3.24
0.250	3.24	3.333	4.32	6.417	23.54	9.50	3.24
0.333	3.24	3.417	4.32	6.500	23.54	9.58	3.24
0.417	3.24	3.500	4.32	6.583	23.54	9.67	3.24
0.500	3.24	3.583	4.32	6.667	23.54	9.75	2.59
0.583	3.24	3.667	4.32	6.750	10.37	9.83	2.59
0.667	3.24	3.750	4.32	6.833	10.37	9.92	2.59
0.750	1.51	3.833	4.32	6.917	10.37	10.00	2.59
0.833	1.51	3.917	4.32	7.000	10.37	10.08	2.59
0.917	1.51	4.000	4.32	7.083	10.37	10.17	2.59
1.000	1.51	4.083	4.32	7.167	10.37	10.25	3.67
1.083	1.51	4.167	4.32	7.250	6.91	10.33	3.67
1.167	1.51	4.250	5.83	7.333	6.91	10.42	3.67
1.250	2.81	4.333	5.83	7.417	6.91	10.50	3.67
1.333	2.81	4.417	5.83	7.500	6.91	10.58	3.67
1.417	2.81	4.500	5.83	7.583	6.91	10.67	3.67
1.500	2.81	4.583	5.83	7.667	6.91	10.75	2.38
1.583	2.81	4.667	5.83	7.750	6.05	10.83	2.38
1.667	2.81	4.750	7.34	7.833	6.05	10.92	2.38
1.750	2.81	4.833	7.34	7.917	6.05	11.00	2.38
1.833	2.81	4.917	7.34	8.000	6.05	11.08	2.38
1.917	2.81	5.000	7.34	8.083	6.05	11.17	2.38
2.000	2.81	5.083	7.34	8.167	6.05	11.25	2.16
2.083	2.81	5.167	7.34	8.250	4.75	11.33	2.16
2.167	2.81	5.250	11.66	8.333	4.75	11.42	2.16
2.250	3.67	5.333	11.66	8.417	4.75	11.50	2.16
2.333	3.67	5.417	11.66	8.500	4.75	11.58	2.16
2.417	3.67	5.500	11.66	8.583	4.75	11.67	2.16
2.500	3.67	5.583	11.66	8.667	4.75	11.75	2.16
2.583	3.67	5.667	11.66	8.750	4.97	11.83	2.16
2.667	3.67	5.750	92.45	8.833	4.97	11.92	2.16

1.833	2.81	4.917	7.34	8.000	6.05	11.08	2.38
1.917	2.81	5.000	7.34	8.083	6.05	11.17	2.38
2.000	2.81	5.083	7.34	8.167	6.05	11.25	2.16
2.083	2.81	5.167	7.34	8.250	4.75	11.33	2.16
2.167	2.81	5.250	11.66	8.333	4.75	11.42	2.16
2.250	3.67	5.333	11.66	8.417	4.75	11.50	2.16
2.333	3.67	5.417	11.66	8.500	4.75	11.58	2.16
2.417	3.67	5.500	11.66	8.583	4.75	11.67	2.16
2.500	3.67	5.583	11.66	8.667	4.75	11.75	2.16
2.583	3.67	5.667	11.66	8.750	4.97	11.83	2.16
2.667	3.67	5.750	92.45	8.833	4.97	11.92	2.16
2.750	3.24	5.833	92.45	8.917	4.97	12.00	2.16
2.833	3.24	5.917	92.45	9.000	4.97	12.08	2.16
2.917	3.24	6.000	92.45	9.083	4.97	12.17	2.16
3.000	3.24	6.083	92.45	9.167	4.97		
3.083	3.24	6.167	92.45	9.250	3.24		

0.417	3.24	3.500	4.32	6.583	23.54	9.67	3.24
0.500	3.24	3.583	4.32	6.667	23.54	9.75	2.59
0.583	3.24	3.667	4.32	6.750	10.37	9.83	2.59
0.667	3.24	3.750	4.32	6.833	10.37	9.92	2.59
0.750	1.51	3.833	4.32	6.917	10.37	10.00	2.59
0.833	1.51	3.917	4.32	7.000	10.37	10.08	2.59
0.917	1.51	4.000	4.32	7.083	10.37	10.17	2.59
1.000	1.51	4.083	4.32	7.167	10.37	10.25	3.67
1.083	1.51	4.167	4.32	7.250	6.91	10.33	3.67
1.167	1.51	4.250	5.83	7.333	6.91	10.42	3.67
1.250	2.81	4.333	5.83	7.417	6.91	10.50	3.67
1.333	2.81	4.417	5.83	7.500	6.91	10.58	3.67
1.417	2.81	4.500	5.83	7.583	6.91	10.67	3.67
1.500	2.81	4.583	5.83	7.667	6.91	10.75	2.38
1.583	2.81	4.667	5.83	7.750	6.05	10.83	2.38
1.667	2.81	4.750	7.34	7.833	6.05	10.92	2.38
1.750	2.81	4.833	7.34	7.917	6.05	11.00	2.38
1.833	2.81	4.917	7.34	8.000	6.05	11.08	2.38
1.917	2.81	5.000	7.34	8.083	6.05	11.17	2.38
2.000	2.81	5.083	7.34	8.167	6.05	11.25	2.16
2.083	2.81	5.167	7.34	8.250	4.75	11.33	2.16
2.167	2.81	5.250	11.66	8.333	4.75	11.42	2.16
2.250	3.67	5.333	11.66	8.417	4.75	11.50	2.16
2.333	3.67	5.417	11.66	8.500	4.75	11.58	2.16
2.417	3.67	5.500	11.66	8.583	4.75	11.67	2.16
2.500	3.67	5.583	11.66	8.667	4.75	11.75	2.16
2.583	3.67	5.667	11.66	8.750	4.97	11.83	2.16
2.667	3.67	5.750	92.45	8.833	4.97	11.92	2.16
2.750	3.24	5.833	92.45	8.917	4.97	12.00	2.16
2.833	3.24	5.917	92.45	9.000	4.97	12.08	2.16
2.917	3.24	6.000	92.45	9.083	4.97	12.17	2.16
3.000	3.24	6.083	92.45	9.167	4.97		
3.083	3.24	6.167	92.45	9.250	3.24		

Unit Hyd Qpeak (cms)= 0.095

PEAK FLOW (cms)= 0.051 (i)
 TIME TO PEAK (hrs)= 7.333
 RUNOFF VOLUME (mm)= 24.872
 TOTAL RAINFALL (mm)= 108.000
 RUNOFF COEFFICIENT = 0.230

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | STANDHYD (0181) | Area (ha)= 1.21
 | ID= 1 DT= 5.0 min | Total Imp(%)= 28.00 Dir. Conn.(%)= 28.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.34	0.87
Dep. Storage (mm)=	1.00	5.00
Average Slope (%)=	1.00	2.00
Length (m)=	89.96	40.00
Mannings n =	0.013	0.350

Max.Eff.Inten.(mm/hr)=	92.45	34.55
over (min)	5.00	20.00
Storage Coeff. (min)=	2.47 (ii)	15.69 (ii)
Unit Hyd. Tpeak (min)=	5.00	20.00
Unit Hyd. peak (cms)=	0.29	0.07

TOTALS

PEAK FLOW (cms)=	0.09	0.06	0.137 (iii)
TIME TO PEAK (hrs)=	6.17	6.33	6.17
RUNOFF VOLUME (mm)=	107.00	34.13	54.53
TOTAL RAINFALL (mm)=	108.00	108.00	108.00
RUNOFF COEFFICIENT =	0.99	0.32	0.50

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
 CN* = 55.0 Ia = Dep. Storage (Above)

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	3.24	6.250	23.54	9.33	3.24
0.167	0.00	3.250	4.32	6.333	23.54	9.42	3.24
0.250	3.24	3.333	4.32	6.417	23.54	9.50	3.24
0.333	3.24	3.417	4.32	6.500	23.54	9.58	3.24

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
 (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0027)				
1	2	3		
AREA	QPEAK	TPEAK	R.V.	
(ha)	(cms)	(hrs)	(mm)	
ID1= 1 (0180):	2.46	0.051	7.33	24.87
+ ID2= 2 (0181):	1.21	0.137	6.17	54.53
=====				
ID = 3 (0027):	3.67	0.146	6.17	34.65

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ADD HYD (0062)				
1	2	3		
AREA	QPEAK	TPEAK	R.V.	
(ha)	(cms)	(hrs)	(mm)	
ID1= 1 (0171):	32.39	0.897	7.17	29.78
+ ID2= 2 (0027):	3.67	0.146	6.17	34.65
=====				
ID = 3 (0062):	36.06	0.975	7.08	30.27

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB			
STANDHYD (0170)			
ID= 1 DT= 5.0 min	Area (ha)=	3.33	
	Total Imp(%)=	29.00	Dir. Conn.(%)= 29.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.97	2.36
Dep. Storage (mm)=	1.00	5.00
Average Slope (%)=	1.00	2.00
Length (m)=	149.09	40.00
Mannings n =	0.013	0.350

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	3.24	6.250	23.54	9.33	3.24
0.167	0.00	3.250	4.32	6.333	23.54	9.42	3.24
0.250	3.24	3.333	4.32	6.417	23.54	9.50	3.24

0.333	3.24	3.417	4.32	6.500	23.54	9.58	3.24
0.417	3.24	3.500	4.32	6.583	23.54	9.67	3.24
0.500	3.24	3.583	4.32	6.667	23.54	9.75	2.59
0.583	3.24	3.667	4.32	6.750	10.37	9.83	2.59
0.667	3.24	3.750	4.32	6.833	10.37	9.92	2.59
0.750	1.51	3.833	4.32	6.917	10.37	10.00	2.59
0.833	1.51	3.917	4.32	7.000	10.37	10.08	2.59
0.917	1.51	4.000	4.32	7.083	10.37	10.17	2.59
1.000	1.51	4.083	4.32	7.167	10.37	10.25	3.67
1.083	1.51	4.167	4.32	7.250	6.91	10.33	3.67
1.167	1.51	4.250	5.83	7.333	6.91	10.42	3.67
1.250	2.81	4.333	5.83	7.417	6.91	10.50	3.67
1.333	2.81	4.417	5.83	7.500	6.91	10.58	3.67
1.417	2.81	4.500	5.83	7.583	6.91	10.67	3.67
1.500	2.81	4.583	5.83	7.667	6.91	10.75	2.38
1.583	2.81	4.667	5.83	7.750	6.05	10.83	2.38
1.667	2.81	4.750	7.34	7.833	6.05	10.92	2.38
1.750	2.81	4.833	7.34	7.917	6.05	11.00	2.38
1.833	2.81	4.917	7.34	8.000	6.05	11.08	2.38
1.917	2.81	5.000	7.34	8.083	6.05	11.17	2.38
2.000	2.81	5.083	7.34	8.167	6.05	11.25	2.16
2.083	2.81	5.167	7.34	8.250	4.75	11.33	2.16
2.167	2.81	5.250	11.66	8.333	4.75	11.42	2.16
2.250	3.67	5.333	11.66	8.417	4.75	11.50	2.16
2.333	3.67	5.417	11.66	8.500	4.75	11.58	2.16
2.417	3.67	5.500	11.66	8.583	4.75	11.67	2.16
2.500	3.67	5.583	11.66	8.667	4.75	11.75	2.16
2.583	3.67	5.667	11.66	8.750	4.97	11.83	2.16
2.667	3.67	5.750	92.45	8.833	4.97	11.92	2.16
2.750	3.24	5.833	92.45	8.917	4.97	12.00	2.16
2.833	3.24	5.917	92.45	9.000	4.97	12.08	2.16
2.917	3.24	6.000	92.45	9.083	4.97	12.17	2.16
3.000	3.24	6.083	92.45	9.167	4.97		
3.083	3.24	6.167	92.45	9.250	3.24		

Max.Eff.Inten.(mm/hr)=	92.45	34.55
over (min)	5.00	20.00
Storage Coeff. (min)=	3.35 (ii)	16.56 (ii)
Unit Hyd. Tpeak (min)=	5.00	20.00
Unit Hyd. peak (cms)=	0.26	0.06

			TOTALS
PEAK FLOW (cms)=	0.25	0.15	0.379 (iii)
TIME TO PEAK (hrs)=	6.17	6.33	6.17
RUNOFF VOLUME (mm)=	107.00	34.13	55.26
TOTAL RAINFALL (mm)=	108.00	108.00	108.00
RUNOFF COEFFICIENT =	0.99	0.32	0.51

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 55.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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-----
| ADD HYD ( 0024) |
| 1 + 2 = 3 |
-----
| AREA QPEAK TPEAK R.V. |
| (ha) (cms) (hrs) (mm) |
ID1= 1 ( 0170): 3.33 0.379 6.17 55.26
+ ID2= 2 ( 0062): 36.06 0.975 7.08 30.27
=====
ID = 3 ( 0024): 39.39 1.058 7.08 32.39

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NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| CALIB |
| NASHYD ( 0221) | Area (ha)= 14.91 Curve Number (CN)= 59.0
| ID= 1 DT= 5.0 min | Ia (mm)= 18.90 # of Linear Res.(N)= 3.00
| U.H. Tp(hrs)= 0.41 |
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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

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| TRANSFORMED HYETOGRAPH |
| TIME RAIN | TIME RAIN | TIME RAIN | TIME RAIN |
| hrs mm/hr | hrs mm/hr | hrs mm/hr | hrs mm/hr |
0.083 0.00 | 3.167 3.24 | 6.250 23.54 | 9.33 3.24
0.167 0.00 | 3.250 4.32 | 6.333 23.54 | 9.42 3.24
0.250 3.24 | 3.333 4.32 | 6.417 23.54 | 9.50 3.24
0.333 3.24 | 3.417 4.32 | 6.500 23.54 | 9.58 3.24
0.417 3.24 | 3.500 4.32 | 6.583 23.54 | 9.67 3.24
0.500 3.24 | 3.583 4.32 | 6.667 23.54 | 9.75 2.59
0.583 3.24 | 3.667 4.32 | 6.750 10.37 | 9.83 2.59
0.667 3.24 | 3.750 4.32 | 6.833 10.37 | 9.92 2.59
0.750 1.51 | 3.833 4.32 | 6.917 10.37 | 10.00 2.59
0.833 1.51 | 3.917 4.32 | 7.000 10.37 | 10.08 2.59
0.917 1.51 | 4.000 4.32 | 7.083 10.37 | 10.17 2.59
1.000 1.51 | 4.083 4.32 | 7.167 10.37 | 10.25 3.67
1.083 1.51 | 4.167 4.32 | 7.250 6.91 | 10.33 3.67
1.167 1.51 | 4.250 5.83 | 7.333 6.91 | 10.42 3.67
1.250 2.81 | 4.333 5.83 | 7.417 6.91 | 10.50 3.67
1.333 2.81 | 4.417 5.83 | 7.500 6.91 | 10.58 3.67
1.417 2.81 | 4.500 5.83 | 7.583 6.91 | 10.67 3.67
1.500 2.81 | 4.583 5.83 | 7.667 6.91 | 10.75 2.38
1.583 2.81 | 4.667 5.83 | 7.750 6.05 | 10.83 2.38
1.667 2.81 | 4.750 7.34 | 7.833 6.05 | 10.92 2.38

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1.750 2.81 | 4.833 7.34 | 7.917 6.05 | 11.00 2.38
1.833 2.81 | 4.917 7.34 | 8.000 6.05 | 11.08 2.38
1.917 2.81 | 5.000 7.34 | 8.083 6.05 | 11.17 2.38
2.000 2.81 | 5.083 7.34 | 8.167 6.05 | 11.25 2.16
2.083 2.81 | 5.167 7.34 | 8.250 4.75 | 11.33 2.16
2.167 2.81 | 5.250 11.66 | 8.333 4.75 | 11.42 2.16
2.250 3.67 | 5.333 11.66 | 8.417 4.75 | 11.50 2.16
2.333 3.67 | 5.417 11.66 | 8.500 4.75 | 11.58 2.16
2.417 3.67 | 5.500 11.66 | 8.583 4.75 | 11.67 2.16
2.500 3.67 | 5.583 11.66 | 8.667 4.75 | 11.75 2.16
2.583 3.67 | 5.667 11.66 | 8.750 4.97 | 11.83 2.16
2.667 3.67 | 5.750 92.45 | 8.833 4.97 | 11.92 2.16
2.750 3.24 | 5.833 92.45 | 8.917 4.97 | 12.00 2.16
2.833 3.24 | 5.917 92.45 | 9.000 4.97 | 12.08 2.16
2.917 3.24 | 6.000 92.45 | 9.083 4.97 | 12.17 2.16
3.000 3.24 | 6.083 92.45 | 9.167 4.97 |
3.083 3.24 | 6.167 92.45 | 9.250 3.24 |

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Unit Hyd Qpeak (cms)= 1.389

PEAK FLOW (cms)= 0.673 (i)
TIME TO PEAK (hrs)= 6.500
RUNOFF VOLUME (mm)= 29.886
TOTAL RAINFALL (mm)= 108.000
RUNOFF COEFFICIENT = 0.277

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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-----
| CALIB |
| STANDHYD ( 0220) | Area (ha)= 0.88
| ID= 1 DT= 5.0 min | Total Imp(%)= 99.00 Dir. Conn.(%)= 99.00
-----
| IMPERVIOUS PERVIOUS (i) |
Surface Area (ha)= 0.87 0.01
Dep. Storage (mm)= 1.00 5.00
Average Slope (%)= 1.00 2.00
Length (m)= 76.42 40.00
Mannings n = 0.013 0.350

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

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-----
| TRANSFORMED HYETOGRAPH |
| TIME RAIN | TIME RAIN | TIME RAIN | TIME RAIN |
| hrs mm/hr | hrs mm/hr | hrs mm/hr | hrs mm/hr |
0.083 0.00 | 3.167 3.24 | 6.250 23.54 | 9.33 3.24
0.167 0.00 | 3.250 4.32 | 6.333 23.54 | 9.42 3.24
0.250 3.24 | 3.333 4.32 | 6.417 23.54 | 9.50 3.24

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0.333	3.24	3.417	4.32	6.500	23.54	9.58	3.24
0.417	3.24	3.500	4.32	6.583	23.54	9.67	3.24
0.500	3.24	3.583	4.32	6.667	23.54	9.75	2.59
0.583	3.24	3.667	4.32	6.750	10.37	9.83	2.59
0.667	3.24	3.750	4.32	6.833	10.37	9.92	2.59
0.750	1.51	3.833	4.32	6.917	10.37	10.00	2.59
0.833	1.51	3.917	4.32	7.000	10.37	10.08	2.59
0.917	1.51	4.000	4.32	7.083	10.37	10.17	2.59
1.000	1.51	4.083	4.32	7.167	10.37	10.25	3.67
1.083	1.51	4.167	4.32	7.250	6.91	10.33	3.67
1.167	1.51	4.250	5.83	7.333	6.91	10.42	3.67
1.250	2.81	4.333	5.83	7.417	6.91	10.50	3.67
1.333	2.81	4.417	5.83	7.500	6.91	10.58	3.67
1.417	2.81	4.500	5.83	7.583	6.91	10.67	3.67
1.500	2.81	4.583	5.83	7.667	6.91	10.75	2.38
1.583	2.81	4.667	5.83	7.750	6.05	10.83	2.38
1.667	2.81	4.750	7.34	7.833	6.05	10.92	2.38
1.750	2.81	4.833	7.34	7.917	6.05	11.00	2.38
1.833	2.81	4.917	7.34	8.000	6.05	11.08	2.38
1.917	2.81	5.000	7.34	8.083	6.05	11.17	2.38
2.000	2.81	5.083	7.34	8.167	6.05	11.25	2.16
2.083	2.81	5.167	7.34	8.250	4.75	11.33	2.16
2.167	2.81	5.250	11.66	8.333	4.75	11.42	2.16
2.250	3.67	5.333	11.66	8.417	4.75	11.50	2.16
2.333	3.67	5.417	11.66	8.500	4.75	11.58	2.16
2.417	3.67	5.500	11.66	8.583	4.75	11.67	2.16
2.500	3.67	5.583	11.66	8.667	4.75	11.75	2.16
2.583	3.67	5.667	11.66	8.750	4.97	11.83	2.16
2.667	3.67	5.750	92.45	8.833	4.97	11.92	2.16
2.750	3.24	5.833	92.45	8.917	4.97	12.00	2.16
2.833	3.24	5.917	92.45	9.000	4.97	12.08	2.16
2.917	3.24	6.000	92.45	9.083	4.97	12.17	2.16
3.000	3.24	6.083	92.45	9.167	4.97		
3.083	3.24	6.167	92.45	9.250	3.24		

Max.Eff.Inten.(mm/hr)= 92.45 91.83
over (min) 5.00 5.00
Storage Coeff. (min)= 2.24 (ii) 3.66 (ii)
Unit Hyd. Tpeak (min)= 5.00 5.00
Unit Hyd. peak (cms)= 0.30 0.25

TOTALS
PEAK FLOW (cms)= 0.22 0.00 0.226 (iii)
TIME TO PEAK (hrs)= 6.08 6.17 6.17
RUNOFF VOLUME (mm)= 107.00 98.06 106.91
TOTAL RAINFALL (mm)= 108.00 108.00 108.00
RUNOFF COEFFICIENT = 0.99 0.91 0.99

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 98.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| ADD HYD (0039) |
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)
ID1= 1 (0220): 0.88 0.226 6.17 106.91
+ ID2= 2 (0221): 14.91 0.673 6.50 29.89
=====

ID = 3 (0039): 15.79 0.730 6.50 34.18
NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| CALIB |
| NASHYD (0231) | Area (ha)= 33.58 Curve Number (CN)= 58.0
| ID= 1 DT= 5.0 min | Ia (mm)= 18.60 # of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 0.31

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	3.24	6.250	23.54	9.33	3.24
0.167	0.00	3.250	4.32	6.333	23.54	9.42	3.24
0.250	3.24	3.333	4.32	6.417	23.54	9.50	3.24
0.333	3.24	3.417	4.32	6.500	23.54	9.58	3.24
0.417	3.24	3.500	4.32	6.583	23.54	9.67	3.24
0.500	3.24	3.583	4.32	6.667	23.54	9.75	2.59
0.583	3.24	3.667	4.32	6.750	10.37	9.83	2.59
0.667	3.24	3.750	4.32	6.833	10.37	9.92	2.59
0.750	1.51	3.833	4.32	6.917	10.37	10.00	2.59
0.833	1.51	3.917	4.32	7.000	10.37	10.08	2.59
0.917	1.51	4.000	4.32	7.083	10.37	10.17	2.59
1.000	1.51	4.083	4.32	7.167	10.37	10.25	3.67
1.083	1.51	4.167	4.32	7.250	6.91	10.33	3.67
1.167	1.51	4.250	5.83	7.333	6.91	10.42	3.67
1.250	2.81	4.333	5.83	7.417	6.91	10.50	3.67
1.333	2.81	4.417	5.83	7.500	6.91	10.58	3.67
1.417	2.81	4.500	5.83	7.583	6.91	10.67	3.67
1.500	2.81	4.583	5.83	7.667	6.91	10.75	2.38
1.583	2.81	4.667	5.83	7.750	6.05	10.83	2.38
1.667	2.81	4.750	7.34	7.833	6.05	10.92	2.38

1.750	2.81	4.833	7.34	7.917	6.05	11.00	2.38
1.833	2.81	4.917	7.34	8.000	6.05	11.08	2.38
1.917	2.81	5.000	7.34	8.083	6.05	11.17	2.38
2.000	2.81	5.083	7.34	8.167	6.05	11.25	2.16
2.083	2.81	5.167	7.34	8.250	4.75	11.33	2.16
2.167	2.81	5.250	11.66	8.333	4.75	11.42	2.16
2.250	3.67	5.333	11.66	8.417	4.75	11.50	2.16
2.333	3.67	5.417	11.66	8.500	4.75	11.58	2.16
2.417	3.67	5.500	11.66	8.583	4.75	11.67	2.16
2.500	3.67	5.583	11.66	8.667	4.75	11.75	2.16
2.583	3.67	5.667	11.66	8.750	4.97	11.83	2.16
2.667	3.67	5.750	92.45	8.833	4.97	11.92	2.16
2.750	3.24	5.833	92.45	8.917	4.97	12.00	2.16
2.833	3.24	5.917	92.45	9.000	4.97	12.08	2.16
2.917	3.24	6.000	92.45	9.083	4.97	12.17	2.16
3.000	3.24	6.083	92.45	9.167	4.97		
3.083	3.24	6.167	92.45	9.250	3.24		

0.333	3.24	3.417	4.32	6.500	23.54	9.58	3.24
0.417	3.24	3.500	4.32	6.583	23.54	9.67	3.24
0.500	3.24	3.583	4.32	6.667	23.54	9.75	2.59
0.583	3.24	3.667	4.32	6.750	10.37	9.83	2.59
0.667	3.24	3.750	4.32	6.833	10.37	9.92	2.59
0.750	1.51	3.833	4.32	6.917	10.37	10.00	2.59
0.833	1.51	3.917	4.32	7.000	10.37	10.08	2.59
0.917	1.51	4.000	4.32	7.083	10.37	10.17	2.59
1.000	1.51	4.083	4.32	7.167	10.37	10.25	3.67
1.083	1.51	4.167	4.32	7.250	6.91	10.33	3.67
1.167	1.51	4.250	5.83	7.333	6.91	10.42	3.67
1.250	2.81	4.333	5.83	7.417	6.91	10.50	3.67
1.333	2.81	4.417	5.83	7.500	6.91	10.58	3.67
1.417	2.81	4.500	5.83	7.583	6.91	10.67	3.67
1.500	2.81	4.583	5.83	7.667	6.91	10.75	2.38
1.583	2.81	4.667	5.83	7.750	6.05	10.83	2.38
1.667	2.81	4.750	7.34	7.833	6.05	10.92	2.38
1.750	2.81	4.833	7.34	7.917	6.05	11.00	2.38
1.833	2.81	4.917	7.34	8.000	6.05	11.08	2.38
1.917	2.81	5.000	7.34	8.083	6.05	11.17	2.38
2.000	2.81	5.083	7.34	8.167	6.05	11.25	2.16
2.083	2.81	5.167	7.34	8.250	4.75	11.33	2.16
2.167	2.81	5.250	11.66	8.333	4.75	11.42	2.16
2.250	3.67	5.333	11.66	8.417	4.75	11.50	2.16
2.333	3.67	5.417	11.66	8.500	4.75	11.58	2.16
2.417	3.67	5.500	11.66	8.583	4.75	11.67	2.16
2.500	3.67	5.583	11.66	8.667	4.75	11.75	2.16
2.583	3.67	5.667	11.66	8.750	4.97	11.83	2.16
2.667	3.67	5.750	92.45	8.833	4.97	11.92	2.16
2.750	3.24	5.833	92.45	8.917	4.97	12.00	2.16
2.833	3.24	5.917	92.45	9.000	4.97	12.08	2.16
2.917	3.24	6.000	92.45	9.083	4.97	12.17	2.16
3.000	3.24	6.083	92.45	9.167	4.97		
3.083	3.24	6.167	92.45	9.250	3.24		

Unit Hyd Qpeak (cms)= 4.137

PEAK FLOW (cms)= 1.754 (i)
 TIME TO PEAK (hrs)= 6.333
 RUNOFF VOLUME (mm)= 29.231
 TOTAL RAINFALL (mm)= 108.000
 RUNOFF COEFFICIENT = 0.271

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | STANDHYD (0230) | Area (ha)= 3.07
 | ID= 1 DT= 5.0 min | Total Imp(%)= 42.00 Dir. Conn.(%)= 42.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	1.29	1.78
Dep. Storage (mm)=	1.00	5.00
Average Slope (%)=	1.00	2.00
Length (m)=	143.00	40.00
Mannings n =	0.013	0.350

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	3.24	6.250	23.54	9.33	3.24
0.167	0.00	3.250	4.32	6.333	23.54	9.42	3.24
0.250	3.24	3.333	4.32	6.417	23.54	9.50	3.24

Max.Eff.Inten.(mm/hr)=	92.45	41.84
over (min)	5.00	20.00
Storage Coeff. (min)=	3.27 (ii)	15.51 (ii)
Unit Hyd. Tpeak (min)=	5.00	20.00
Unit Hyd. peak (cms)=	0.27	0.07

TOTALS

PEAK FLOW (cms)=	0.33	0.14	0.457 (iii)
TIME TO PEAK (hrs)=	6.17	6.33	6.17
RUNOFF VOLUME (mm)=	107.00	41.01	68.72
TOTAL RAINFALL (mm)=	108.00	108.00	108.00
RUNOFF COEFFICIENT =	0.99	0.38	0.64

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 62.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

1.750	2.81	4.833	7.34	7.917	6.05	11.00	2.38
1.833	2.81	4.917	7.34	8.000	6.05	11.08	2.38
1.917	2.81	5.000	7.34	8.083	6.05	11.17	2.38
2.000	2.81	5.083	7.34	8.167	6.05	11.25	2.16
2.083	2.81	5.167	7.34	8.250	4.75	11.33	2.16
2.167	2.81	5.250	11.66	8.333	4.75	11.42	2.16
2.250	3.67	5.333	11.66	8.417	4.75	11.50	2.16
2.333	3.67	5.417	11.66	8.500	4.75	11.58	2.16
2.417	3.67	5.500	11.66	8.583	4.75	11.67	2.16
2.500	3.67	5.583	11.66	8.667	4.75	11.75	2.16
2.583	3.67	5.667	11.66	8.750	4.97	11.83	2.16
2.667	3.67	5.750	92.45	8.833	4.97	11.92	2.16
2.750	3.24	5.833	92.45	8.917	4.97	12.00	2.16
2.833	3.24	5.917	92.45	9.000	4.97	12.08	2.16
2.917	3.24	6.000	92.45	9.083	4.97	12.17	2.16
3.000	3.24	6.083	92.45	9.167	4.97		
3.083	3.24	6.167	92.45	9.250	3.24		

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-----
| ADD HYD ( 0042) |
| 1 + 2 = 3 |
-----
| AREA QPEAK TPEAK R.V. |
| (ha) (cms) (hrs) (mm) |
ID1= 1 ( 0230): 3.07 0.457 6.17 68.72
+ ID2= 2 ( 0231): 33.58 1.754 6.33 29.23
=====
ID = 3 ( 0042): 36.65 1.994 6.33 32.54

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NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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| CALIB |
| NASHYD ( 0241) | Area (ha)= 11.24 Curve Number (CN)= 56.0
| ID= 1 DT= 5.0 min | Ia (mm)= 22.20 # of Linear Res.(N)= 3.00
| U.H. Tp(hrs)= 0.41 |
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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

Unit Hyd Qpeak (cms)= 1.047

PEAK FLOW (cms)= 0.424 (i)
TIME TO PEAK (hrs)= 6.500
RUNOFF VOLUME (mm)= 25.794
TOTAL RAINFALL (mm)= 108.000
RUNOFF COEFFICIENT = 0.239

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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-----
| TRANSFORMED HYETOGRAPH |
| TIME RAIN | TIME RAIN | TIME RAIN | TIME RAIN |
| hrs mm/hr | hrs mm/hr | hrs mm/hr | hrs mm/hr |
0.083 0.00 | 3.167 3.24 | 6.250 23.54 | 9.33 3.24
0.167 0.00 | 3.250 4.32 | 6.333 23.54 | 9.42 3.24
0.250 3.24 | 3.333 4.32 | 6.417 23.54 | 9.50 3.24
0.333 3.24 | 3.417 4.32 | 6.500 23.54 | 9.58 3.24
0.417 3.24 | 3.500 4.32 | 6.583 23.54 | 9.67 3.24
0.500 3.24 | 3.583 4.32 | 6.667 23.54 | 9.75 2.59
0.583 3.24 | 3.667 4.32 | 6.750 10.37 | 9.83 2.59
0.667 3.24 | 3.750 4.32 | 6.833 10.37 | 9.92 2.59
0.750 1.51 | 3.833 4.32 | 6.917 10.37 | 10.00 2.59
0.833 1.51 | 3.917 4.32 | 7.000 10.37 | 10.08 2.59
0.917 1.51 | 4.000 4.32 | 7.083 10.37 | 10.17 2.59
1.000 1.51 | 4.083 4.32 | 7.167 10.37 | 10.25 3.67
1.083 1.51 | 4.167 4.32 | 7.250 6.91 | 10.33 3.67
1.167 1.51 | 4.250 5.83 | 7.333 6.91 | 10.42 3.67
1.250 2.81 | 4.333 5.83 | 7.417 6.91 | 10.50 3.67
1.333 2.81 | 4.417 5.83 | 7.500 6.91 | 10.58 3.67
1.417 2.81 | 4.500 5.83 | 7.583 6.91 | 10.67 3.67
1.500 2.81 | 4.583 5.83 | 7.667 6.91 | 10.75 2.38
1.583 2.81 | 4.667 5.83 | 7.750 6.05 | 10.83 2.38
1.667 2.81 | 4.750 7.34 | 7.833 6.05 | 10.92 2.38

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| CALIB |
| STANDHYD ( 0240) | Area (ha)= 0.88
| ID= 1 DT= 5.0 min | Total Imp(%)= 37.00 Dir. Conn.(%)= 37.00
-----
| IMPERVIOUS PERVIOUS (i) |
Surface Area (ha)= 0.33 0.55
Dep. Storage (mm)= 1.00 5.00
Average Slope (%)= 1.00 2.00
Length (m)= 76.58 40.00
Mannings n = 0.013 0.350

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

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| TRANSFORMED HYETOGRAPH |
| TIME RAIN | TIME RAIN | TIME RAIN | TIME RAIN |
| hrs mm/hr | hrs mm/hr | hrs mm/hr | hrs mm/hr |
0.083 0.00 | 3.167 3.24 | 6.250 23.54 | 9.33 3.24
0.167 0.00 | 3.250 4.32 | 6.333 23.54 | 9.42 3.24
0.250 3.24 | 3.333 4.32 | 6.417 23.54 | 9.50 3.24

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0.333	3.24	3.417	4.32	6.500	23.54	9.58	3.24
0.417	3.24	3.500	4.32	6.583	23.54	9.67	3.24
0.500	3.24	3.583	4.32	6.667	23.54	9.75	2.59
0.583	3.24	3.667	4.32	6.750	10.37	9.83	2.59
0.667	3.24	3.750	4.32	6.833	10.37	9.92	2.59
0.750	1.51	3.833	4.32	6.917	10.37	10.00	2.59
0.833	1.51	3.917	4.32	7.000	10.37	10.08	2.59
0.917	1.51	4.000	4.32	7.083	10.37	10.17	2.59
1.000	1.51	4.083	4.32	7.167	10.37	10.25	3.67
1.083	1.51	4.167	4.32	7.250	6.91	10.33	3.67
1.167	1.51	4.250	5.83	7.333	6.91	10.42	3.67
1.250	2.81	4.333	5.83	7.417	6.91	10.50	3.67
1.333	2.81	4.417	5.83	7.500	6.91	10.58	3.67
1.417	2.81	4.500	5.83	7.583	6.91	10.67	3.67
1.500	2.81	4.583	5.83	7.667	6.91	10.75	2.38
1.583	2.81	4.667	5.83	7.750	6.05	10.83	2.38
1.667	2.81	4.750	7.34	7.833	6.05	10.92	2.38
1.750	2.81	4.833	7.34	7.917	6.05	11.00	2.38
1.833	2.81	4.917	7.34	8.000	6.05	11.08	2.38
1.917	2.81	5.000	7.34	8.083	6.05	11.17	2.38
2.000	2.81	5.083	7.34	8.167	6.05	11.25	2.16
2.083	2.81	5.167	7.34	8.250	4.75	11.33	2.16
2.167	2.81	5.250	11.66	8.333	4.75	11.42	2.16
2.250	3.67	5.333	11.66	8.417	4.75	11.50	2.16
2.333	3.67	5.417	11.66	8.500	4.75	11.58	2.16
2.417	3.67	5.500	11.66	8.583	4.75	11.67	2.16
2.500	3.67	5.583	11.66	8.667	4.75	11.75	2.16
2.583	3.67	5.667	11.66	8.750	4.97	11.83	2.16
2.667	3.67	5.750	92.45	8.833	4.97	11.92	2.16
2.750	3.24	5.833	92.45	8.917	4.97	12.00	2.16
2.833	3.24	5.917	92.45	9.000	4.97	12.08	2.16
2.917	3.24	6.000	92.45	9.083	4.97	12.17	2.16
3.000	3.24	6.083	92.45	9.167	4.97		
3.083	3.24	6.167	92.45	9.250	3.24		

Max.Eff.Inten.(mm/hr)= 92.45 34.55
over (min) 5.00 20.00
Storage Coeff. (min)= 2.25 (ii) 15.46 (ii)
Unit Hyd. Tpeak (min)= 5.00 20.00
Unit Hyd. peak (cms)= 0.30 0.07

TOTALS
PEAK FLOW (cms)= 0.08 0.04 0.115 (iii)
TIME TO PEAK (hrs)= 6.08 6.33 6.17
RUNOFF VOLUME (mm)= 107.00 34.13 61.08
TOTAL RAINFALL (mm)= 108.00 108.00 108.00
RUNOFF COEFFICIENT = 0.99 0.32 0.57

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 55.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0045)				
1 + 2 = 3				
	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0240):	0.88	0.115	6.17	61.08
+ ID2= 2 (0241):	11.24	0.424	6.50	25.79
=====				
ID = 3 (0045):	12.12	0.475	6.50	28.36

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB				
NASHYD (0251)				
	Area	(ha)=	16.61	Curve Number (CN)= 51.0
ID= 1 DT= 5.0 min	Ia	(mm)=	24.70	# of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 0.51				

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	3.24	6.250	23.54	9.33	3.24
0.167	0.00	3.250	4.32	6.333	23.54	9.42	3.24
0.250	3.24	3.333	4.32	6.417	23.54	9.50	3.24
0.333	3.24	3.417	4.32	6.500	23.54	9.58	3.24
0.417	3.24	3.500	4.32	6.583	23.54	9.67	3.24
0.500	3.24	3.583	4.32	6.667	23.54	9.75	2.59
0.583	3.24	3.667	4.32	6.750	10.37	9.83	2.59
0.667	3.24	3.750	4.32	6.833	10.37	9.92	2.59
0.750	1.51	3.833	4.32	6.917	10.37	10.00	2.59
0.833	1.51	3.917	4.32	7.000	10.37	10.08	2.59
0.917	1.51	4.000	4.32	7.083	10.37	10.17	2.59
1.000	1.51	4.083	4.32	7.167	10.37	10.25	3.67
1.083	1.51	4.167	4.32	7.250	6.91	10.33	3.67
1.167	1.51	4.250	5.83	7.333	6.91	10.42	3.67
1.250	2.81	4.333	5.83	7.417	6.91	10.50	3.67
1.333	2.81	4.417	5.83	7.500	6.91	10.58	3.67
1.417	2.81	4.500	5.83	7.583	6.91	10.67	3.67
1.500	2.81	4.583	5.83	7.667	6.91	10.75	2.38
1.583	2.81	4.667	5.83	7.750	6.05	10.83	2.38
1.667	2.81	4.750	7.34	7.833	6.05	10.92	2.38

1.750	2.81	4.833	7.34	7.917	6.05	11.00	2.38
1.833	2.81	4.917	7.34	8.000	6.05	11.08	2.38
1.917	2.81	5.000	7.34	8.083	6.05	11.17	2.38
2.000	2.81	5.083	7.34	8.167	6.05	11.25	2.16
2.083	2.81	5.167	7.34	8.250	4.75	11.33	2.16
2.167	2.81	5.250	11.66	8.333	4.75	11.42	2.16
2.250	3.67	5.333	11.66	8.417	4.75	11.50	2.16
2.333	3.67	5.417	11.66	8.500	4.75	11.58	2.16
2.417	3.67	5.500	11.66	8.583	4.75	11.67	2.16
2.500	3.67	5.583	11.66	8.667	4.75	11.75	2.16
2.583	3.67	5.667	11.66	8.750	4.97	11.83	2.16
2.667	3.67	5.750	92.45	8.833	4.97	11.92	2.16
2.750	3.24	5.833	92.45	8.917	4.97	12.00	2.16
2.833	3.24	5.917	92.45	9.000	4.97	12.08	2.16
2.917	3.24	6.000	92.45	9.083	4.97	12.17	2.16
3.000	3.24	6.083	92.45	9.167	4.97		
3.083	3.24	6.167	92.45	9.250	3.24		

0.333	3.24	3.417	4.32	6.500	23.54	9.58	3.24
0.417	3.24	3.500	4.32	6.583	23.54	9.67	3.24
0.500	3.24	3.583	4.32	6.667	23.54	9.75	2.59
0.583	3.24	3.667	4.32	6.750	10.37	9.83	2.59
0.667	3.24	3.750	4.32	6.833	10.37	9.92	2.59
0.750	1.51	3.833	4.32	6.917	10.37	10.00	2.59
0.833	1.51	3.917	4.32	7.000	10.37	10.08	2.59
0.917	1.51	4.000	4.32	7.083	10.37	10.17	2.59
1.000	1.51	4.083	4.32	7.167	10.37	10.25	3.67
1.083	1.51	4.167	4.32	7.250	6.91	10.33	3.67
1.167	1.51	4.250	5.83	7.333	6.91	10.42	3.67
1.250	2.81	4.333	5.83	7.417	6.91	10.50	3.67
1.333	2.81	4.417	5.83	7.500	6.91	10.58	3.67
1.417	2.81	4.500	5.83	7.583	6.91	10.67	3.67
1.500	2.81	4.583	5.83	7.667	6.91	10.75	2.38
1.583	2.81	4.667	5.83	7.750	6.05	10.83	2.38
1.667	2.81	4.750	7.34	7.833	6.05	10.92	2.38
1.750	2.81	4.833	7.34	7.917	6.05	11.00	2.38
1.833	2.81	4.917	7.34	8.000	6.05	11.08	2.38
1.917	2.81	5.000	7.34	8.083	6.05	11.17	2.38
2.000	2.81	5.083	7.34	8.167	6.05	11.25	2.16
2.083	2.81	5.167	7.34	8.250	4.75	11.33	2.16
2.167	2.81	5.250	11.66	8.333	4.75	11.42	2.16
2.250	3.67	5.333	11.66	8.417	4.75	11.50	2.16
2.333	3.67	5.417	11.66	8.500	4.75	11.58	2.16
2.417	3.67	5.500	11.66	8.583	4.75	11.67	2.16
2.500	3.67	5.583	11.66	8.667	4.75	11.75	2.16
2.583	3.67	5.667	11.66	8.750	4.97	11.83	2.16
2.667	3.67	5.750	92.45	8.833	4.97	11.92	2.16
2.750	3.24	5.833	92.45	8.917	4.97	12.00	2.16
2.833	3.24	5.917	92.45	9.000	4.97	12.08	2.16
2.917	3.24	6.000	92.45	9.083	4.97	12.17	2.16
3.000	3.24	6.083	92.45	9.167	4.97		
3.083	3.24	6.167	92.45	9.250	3.24		

Unit Hyd Qpeak (cms)= 1.244

PEAK FLOW (cms)= 0.441 (i)
 TIME TO PEAK (hrs)= 6.667
 RUNOFF VOLUME (mm)= 21.197
 TOTAL RAINFALL (mm)= 108.000
 RUNOFF COEFFICIENT = 0.196

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | STANDHYD (0250) | Area (ha)= 0.93
 | ID= 1 DT= 5.0 min | Total Imp(%)= 26.00 Dir. Conn.(%)= 26.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.24	0.69
Dep. Storage	(mm)=	1.00	5.00
Average Slope	(%)=	1.00	2.00
Length	(m)=	78.76	40.00
Mannings n	=	0.013	0.350

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	3.24	6.250	23.54	9.33	3.24
0.167	0.00	3.250	4.32	6.333	23.54	9.42	3.24
0.250	3.24	3.333	4.32	6.417	23.54	9.50	3.24

Max.Eff.Inten.(mm/hr)=	92.45	44.11
over (min)	5.00	15.00
Storage Coeff. (min)=	2.28 (ii)	14.27 (ii)
Unit Hyd. Tpeak (min)=	5.00	15.00
Unit Hyd. peak (cms)=	0.30	0.08

TOTALS

PEAK FLOW (cms)=	0.06	0.06	0.122 (iii)
TIME TO PEAK (hrs)=	6.17	6.25	6.17
RUNOFF VOLUME (mm)=	107.00	43.15	59.74
TOTAL RAINFALL (mm)=	108.00	108.00	108.00
RUNOFF COEFFICIENT =	0.99	0.40	0.55

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 64.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

1.750	2.81	4.833	7.34	7.917	6.05	11.00	2.38
1.833	2.81	4.917	7.34	8.000	6.05	11.08	2.38
1.917	2.81	5.000	7.34	8.083	6.05	11.17	2.38
2.000	2.81	5.083	7.34	8.167	6.05	11.25	2.16
2.083	2.81	5.167	7.34	8.250	4.75	11.33	2.16
2.167	2.81	5.250	11.66	8.333	4.75	11.42	2.16
2.250	3.67	5.333	11.66	8.417	4.75	11.50	2.16
2.333	3.67	5.417	11.66	8.500	4.75	11.58	2.16
2.417	3.67	5.500	11.66	8.583	4.75	11.67	2.16
2.500	3.67	5.583	11.66	8.667	4.75	11.75	2.16
2.583	3.67	5.667	11.66	8.750	4.97	11.83	2.16
2.667	3.67	5.750	92.45	8.833	4.97	11.92	2.16
2.750	3.24	5.833	92.45	8.917	4.97	12.00	2.16
2.833	3.24	5.917	92.45	9.000	4.97	12.08	2.16
2.917	3.24	6.000	92.45	9.083	4.97	12.17	2.16
3.000	3.24	6.083	92.45	9.167	4.97		
3.083	3.24	6.167	92.45	9.250	3.24		

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-----
| ADD HYD ( 0048) |
| 1 + 2 = 3 |
-----
ID1= 1 ( 0250):   AREA   QPEAK   TPEAK   R.V.
                  (ha)    (cms)   (hrs)   (mm)
+ ID2= 2 ( 0251):  0.93    0.122  6.17   59.74
                  16.61   0.441  6.67   21.20
=====
ID = 3 ( 0048):   17.54   0.491  6.67   23.24

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| CALIB |
| NASHYD ( 0261) |
| ID= 1 DT= 5.0 min |
-----
Area (ha)= 35.85 Curve Number (CN)= 59.0
Ia (mm)= 18.50 # of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 1.24

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

Unit Hyd Qpeak (cms)= 1.104

PEAK FLOW (cms)= 0.796 (i)
TIME TO PEAK (hrs)= 7.583
RUNOFF VOLUME (mm)= 30.113
TOTAL RAINFALL (mm)= 108.000
RUNOFF COEFFICIENT = 0.279

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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-----
          ----- TRANSFORMED HYETOGRAPH -----
TIME    RAIN | TIME    RAIN | TIME    RAIN | TIME    RAIN
hrs     mm/hr | hrs     mm/hr | hrs     mm/hr | hrs     mm/hr
0.083   0.00 | 3.167   3.24 | 6.250   23.54 | 9.33    3.24
0.167   0.00 | 3.250   4.32 | 6.333   23.54 | 9.42    3.24
0.250   3.24 | 3.333   4.32 | 6.417   23.54 | 9.50    3.24
0.333   3.24 | 3.417   4.32 | 6.500   23.54 | 9.58    3.24
0.417   3.24 | 3.500   4.32 | 6.583   23.54 | 9.67    3.24
0.500   3.24 | 3.583   4.32 | 6.667   23.54 | 9.75    2.59
0.583   3.24 | 3.667   4.32 | 6.750   10.37 | 9.83    2.59
0.667   3.24 | 3.750   4.32 | 6.833   10.37 | 9.92    2.59
0.750   1.51 | 3.833   4.32 | 6.917   10.37 | 10.00   2.59
0.833   1.51 | 3.917   4.32 | 7.000   10.37 | 10.08   2.59
0.917   1.51 | 4.000   4.32 | 7.083   10.37 | 10.17   2.59
1.000   1.51 | 4.083   4.32 | 7.167   10.37 | 10.25   3.67
1.083   1.51 | 4.167   4.32 | 7.250   6.91  | 10.33   3.67
1.167   1.51 | 4.250   5.83 | 7.333   6.91  | 10.42   3.67
1.250   2.81 | 4.333   5.83 | 7.417   6.91  | 10.50   3.67
1.333   2.81 | 4.417   5.83 | 7.500   6.91  | 10.58   3.67
1.417   2.81 | 4.500   5.83 | 7.583   6.91  | 10.67   3.67
1.500   2.81 | 4.583   5.83 | 7.667   6.91  | 10.75   2.38
1.583   2.81 | 4.667   5.83 | 7.750   6.05  | 10.83   2.38
1.667   2.81 | 4.750   7.34 | 7.833   6.05  | 10.92   2.38

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-----
| CALIB |
| STANDHYD ( 0260) |
| ID= 1 DT= 5.0 min |
-----
Area (ha)= 3.40
Total Imp(%)= 27.00 Dir. Conn.(%)= 27.00
-----
IMPERVIOUS   PERVIOUS (i)
Surface Area (ha)= 0.92   2.48
Dep. Storage (mm)= 1.00  5.00
Average Slope (%)= 1.00  2.00
Length (m)= 150.51  40.00
Mannings n = 0.013  0.350

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

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-----
          ----- TRANSFORMED HYETOGRAPH -----
TIME    RAIN | TIME    RAIN | TIME    RAIN | TIME    RAIN
hrs     mm/hr | hrs     mm/hr | hrs     mm/hr | hrs     mm/hr
0.083   0.00 | 3.167   3.24 | 6.250   23.54 | 9.33    3.24
0.167   0.00 | 3.250   4.32 | 6.333   23.54 | 9.42    3.24
0.250   3.24 | 3.333   4.32 | 6.417   23.54 | 9.50    3.24

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0.333	3.24	3.417	4.32	6.500	23.54	9.58	3.24
0.417	3.24	3.500	4.32	6.583	23.54	9.67	3.24
0.500	3.24	3.583	4.32	6.667	23.54	9.75	2.59
0.583	3.24	3.667	4.32	6.750	10.37	9.83	2.59
0.667	3.24	3.750	4.32	6.833	10.37	9.92	2.59
0.750	1.51	3.833	4.32	6.917	10.37	10.00	2.59
0.833	1.51	3.917	4.32	7.000	10.37	10.08	2.59
0.917	1.51	4.000	4.32	7.083	10.37	10.17	2.59
1.000	1.51	4.083	4.32	7.167	10.37	10.25	3.67
1.083	1.51	4.167	4.32	7.250	6.91	10.33	3.67
1.167	1.51	4.250	5.83	7.333	6.91	10.42	3.67
1.250	2.81	4.333	5.83	7.417	6.91	10.50	3.67
1.333	2.81	4.417	5.83	7.500	6.91	10.58	3.67
1.417	2.81	4.500	5.83	7.583	6.91	10.67	3.67
1.500	2.81	4.583	5.83	7.667	6.91	10.75	2.38
1.583	2.81	4.667	5.83	7.750	6.05	10.83	2.38
1.667	2.81	4.750	7.34	7.833	6.05	10.92	2.38
1.750	2.81	4.833	7.34	7.917	6.05	11.00	2.38
1.833	2.81	4.917	7.34	8.000	6.05	11.08	2.38
1.917	2.81	5.000	7.34	8.083	6.05	11.17	2.38
2.000	2.81	5.083	7.34	8.167	6.05	11.25	2.16
2.083	2.81	5.167	7.34	8.250	4.75	11.33	2.16
2.167	2.81	5.250	11.66	8.333	4.75	11.42	2.16
2.250	3.67	5.333	11.66	8.417	4.75	11.50	2.16
2.333	3.67	5.417	11.66	8.500	4.75	11.58	2.16
2.417	3.67	5.500	11.66	8.583	4.75	11.67	2.16
2.500	3.67	5.583	11.66	8.667	4.75	11.75	2.16
2.583	3.67	5.667	11.66	8.750	4.97	11.83	2.16
2.667	3.67	5.750	92.45	8.833	4.97	11.92	2.16
2.750	3.24	5.833	92.45	8.917	4.97	12.00	2.16
2.833	3.24	5.917	92.45	9.000	4.97	12.08	2.16
2.917	3.24	6.000	92.45	9.083	4.97	12.17	2.16
3.000	3.24	6.083	92.45	9.167	4.97		
3.083	3.24	6.167	92.45	9.250	3.24		

Max.Eff.Inten.(mm/hr)= 92.45 59.70
over (min) 5.00 15.00
Storage Coeff. (min)= 3.37 (ii) 13.99 (ii)
Unit Hyd. Tpeak (min)= 5.00 15.00
Unit Hyd. peak (cms)= 0.26 0.08

TOTALS
PEAK FLOW (cms)= 0.24 0.32 0.539 (iii)
TIME TO PEAK (hrs)= 6.17 6.25 6.17
RUNOFF VOLUME (mm)= 107.00 57.91 71.16
TOTAL RAINFALL (mm)= 108.00 108.00 108.00
RUNOFF COEFFICIENT = 0.99 0.54 0.66

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 76.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0051)				
1 + 2 = 3				
	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0260):	3.40	0.539	6.17	71.16
+ ID2= 2 (0261):	35.85	0.796	7.58	30.11
=====				
ID = 3 (0051):	39.25	0.859	7.50	33.67

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB				
NASHYD (0271)				
Area	(ha)=	26.76	Curve Number	(CN)= 59.0
Ia	(mm)=	18.90	# of Linear Res.(N)=	3.00
ID= 1 DT= 5.0 min	U.H. Tp(hrs)=	0.23		

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	3.24	6.250	23.54	9.33	3.24
0.167	0.00	3.250	4.32	6.333	23.54	9.42	3.24
0.250	3.24	3.333	4.32	6.417	23.54	9.50	3.24
0.333	3.24	3.417	4.32	6.500	23.54	9.58	3.24
0.417	3.24	3.500	4.32	6.583	23.54	9.67	3.24
0.500	3.24	3.583	4.32	6.667	23.54	9.75	2.59
0.583	3.24	3.667	4.32	6.750	10.37	9.83	2.59
0.667	3.24	3.750	4.32	6.833	10.37	9.92	2.59
0.750	1.51	3.833	4.32	6.917	10.37	10.00	2.59
0.833	1.51	3.917	4.32	7.000	10.37	10.08	2.59
0.917	1.51	4.000	4.32	7.083	10.37	10.17	2.59
1.000	1.51	4.083	4.32	7.167	10.37	10.25	3.67
1.083	1.51	4.167	4.32	7.250	6.91	10.33	3.67
1.167	1.51	4.250	5.83	7.333	6.91	10.42	3.67
1.250	2.81	4.333	5.83	7.417	6.91	10.50	3.67
1.333	2.81	4.417	5.83	7.500	6.91	10.58	3.67
1.417	2.81	4.500	5.83	7.583	6.91	10.67	3.67
1.500	2.81	4.583	5.83	7.667	6.91	10.75	2.38
1.583	2.81	4.667	5.83	7.750	6.05	10.83	2.38
1.667	2.81	4.750	7.34	7.833	6.05	10.92	2.38

1.750	2.81	4.833	7.34	7.917	6.05	11.00	2.38
1.833	2.81	4.917	7.34	8.000	6.05	11.08	2.38
1.917	2.81	5.000	7.34	8.083	6.05	11.17	2.38
2.000	2.81	5.083	7.34	8.167	6.05	11.25	2.16
2.083	2.81	5.167	7.34	8.250	4.75	11.33	2.16
2.167	2.81	5.250	11.66	8.333	4.75	11.42	2.16
2.250	3.67	5.333	11.66	8.417	4.75	11.50	2.16
2.333	3.67	5.417	11.66	8.500	4.75	11.58	2.16
2.417	3.67	5.500	11.66	8.583	4.75	11.67	2.16
2.500	3.67	5.583	11.66	8.667	4.75	11.75	2.16
2.583	3.67	5.667	11.66	8.750	4.97	11.83	2.16
2.667	3.67	5.750	92.45	8.833	4.97	11.92	2.16
2.750	3.24	5.833	92.45	8.917	4.97	12.00	2.16
2.833	3.24	5.917	92.45	9.000	4.97	12.08	2.16
2.917	3.24	6.000	92.45	9.083	4.97	12.17	2.16
3.000	3.24	6.083	92.45	9.167	4.97		
3.083	3.24	6.167	92.45	9.250	3.24		

0.333	3.24	3.417	4.32	6.500	23.54	9.58	3.24
0.417	3.24	3.500	4.32	6.583	23.54	9.67	3.24
0.500	3.24	3.583	4.32	6.667	23.54	9.75	2.59
0.583	3.24	3.667	4.32	6.750	10.37	9.83	2.59
0.667	3.24	3.750	4.32	6.833	10.37	9.92	2.59
0.750	1.51	3.833	4.32	6.917	10.37	10.00	2.59
0.833	1.51	3.917	4.32	7.000	10.37	10.08	2.59
0.917	1.51	4.000	4.32	7.083	10.37	10.17	2.59
1.000	1.51	4.083	4.32	7.167	10.37	10.25	3.67
1.083	1.51	4.167	4.32	7.250	6.91	10.33	3.67
1.167	1.51	4.250	5.83	7.333	6.91	10.42	3.67
1.250	2.81	4.333	5.83	7.417	6.91	10.50	3.67
1.333	2.81	4.417	5.83	7.500	6.91	10.58	3.67
1.417	2.81	4.500	5.83	7.583	6.91	10.67	3.67
1.500	2.81	4.583	5.83	7.667	6.91	10.75	2.38
1.583	2.81	4.667	5.83	7.750	6.05	10.83	2.38
1.667	2.81	4.750	7.34	7.833	6.05	10.92	2.38
1.750	2.81	4.833	7.34	7.917	6.05	11.00	2.38
1.833	2.81	4.917	7.34	8.000	6.05	11.08	2.38
1.917	2.81	5.000	7.34	8.083	6.05	11.17	2.38
2.000	2.81	5.083	7.34	8.167	6.05	11.25	2.16
2.083	2.81	5.167	7.34	8.250	4.75	11.33	2.16
2.167	2.81	5.250	11.66	8.333	4.75	11.42	2.16
2.250	3.67	5.333	11.66	8.417	4.75	11.50	2.16
2.333	3.67	5.417	11.66	8.500	4.75	11.58	2.16
2.417	3.67	5.500	11.66	8.583	4.75	11.67	2.16
2.500	3.67	5.583	11.66	8.667	4.75	11.75	2.16
2.583	3.67	5.667	11.66	8.750	4.97	11.83	2.16
2.667	3.67	5.750	92.45	8.833	4.97	11.92	2.16
2.750	3.24	5.833	92.45	8.917	4.97	12.00	2.16
2.833	3.24	5.917	92.45	9.000	4.97	12.08	2.16
2.917	3.24	6.000	92.45	9.083	4.97	12.17	2.16
3.000	3.24	6.083	92.45	9.167	4.97		
3.083	3.24	6.167	92.45	9.250	3.24		

Unit Hyd Qpeak (cms)= 4.444

PEAK FLOW (cms)= 1.699 (i)
 TIME TO PEAK (hrs)= 6.250
 RUNOFF VOLUME (mm)= 29.856
 TOTAL RAINFALL (mm)= 108.000
 RUNOFF COEFFICIENT = 0.276

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | STANDHYD (0270) | Area (ha)= 3.95
 | ID= 1 DT= 5.0 min | Total Imp(%)= 31.00 Dir. Conn.(%)= 31.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	1.22	2.73
Dep. Storage (mm)=	1.00	5.00
Average Slope (%)=	1.00	2.00
Length (m)=	162.31	40.00
Mannings n =	0.013	0.350

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	3.24	6.250	23.54	9.33	3.24
0.167	0.00	3.250	4.32	6.333	23.54	9.42	3.24
0.250	3.24	3.333	4.32	6.417	23.54	9.50	3.24

Max.Eff.Inten.(mm/hr)=	92.45	36.54
over (min)	5.00	20.00
Storage Coeff. (min)=	3.53 (ii)	16.44 (ii)
Unit Hyd. Tpeak (min)=	5.00	20.00
Unit Hyd. peak (cms)=	0.26	0.06

TOTALS

PEAK FLOW (cms)=	0.31	0.19	0.476 (iii)
TIME TO PEAK (hrs)=	6.17	6.33	6.17
RUNOFF VOLUME (mm)=	107.00	36.01	58.01
TOTAL RAINFALL (mm)=	108.00	108.00	108.00
RUNOFF COEFFICIENT =	0.99	0.33	0.54

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 57.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

1.750	2.81	4.833	7.34	7.917	6.05	11.00	2.38
1.833	2.81	4.917	7.34	8.000	6.05	11.08	2.38
1.917	2.81	5.000	7.34	8.083	6.05	11.17	2.38
2.000	2.81	5.083	7.34	8.167	6.05	11.25	2.16
2.083	2.81	5.167	7.34	8.250	4.75	11.33	2.16
2.167	2.81	5.250	11.66	8.333	4.75	11.42	2.16
2.250	3.67	5.333	11.66	8.417	4.75	11.50	2.16
2.333	3.67	5.417	11.66	8.500	4.75	11.58	2.16
2.417	3.67	5.500	11.66	8.583	4.75	11.67	2.16
2.500	3.67	5.583	11.66	8.667	4.75	11.75	2.16
2.583	3.67	5.667	11.66	8.750	4.97	11.83	2.16
2.667	3.67	5.750	92.45	8.833	4.97	11.92	2.16
2.750	3.24	5.833	92.45	8.917	4.97	12.00	2.16
2.833	3.24	5.917	92.45	9.000	4.97	12.08	2.16
2.917	3.24	6.000	92.45	9.083	4.97	12.17	2.16
3.000	3.24	6.083	92.45	9.167	4.97		
3.083	3.24	6.167	92.45	9.250	3.24		

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| ADD HYD ( 0054) |
| 1 + 2 = 3 |
-----
| AREA QPEAK TPEAK R.V. |
| (ha) (cms) (hrs) (mm) |
ID1= 1 ( 0270): 3.95 0.476 6.17 58.01
+ ID2= 2 ( 0271): 26.76 1.699 6.25 29.86
=====
ID = 3 ( 0054): 30.71 2.033 6.17 33.48

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NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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| CALIB |
| NASHYD ( 0281) | Area (ha)= 6.71 Curve Number (CN)= 67.0
| ID= 1 DT= 5.0 min | Ia (mm)= 12.90 # of Linear Res.(N)= 3.00
| U.H. Tp(hrs)= 0.43 |
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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

Unit Hyd Qpeak (cms)= 0.596

PEAK FLOW (cms)= 0.425 (i)
TIME TO PEAK (hrs)= 6.500
RUNOFF VOLUME (mm)= 41.067
TOTAL RAINFALL (mm)= 108.000
RUNOFF COEFFICIENT = 0.380

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| TRANSFORMED HYETOGRAPH |
| TIME RAIN | TIME RAIN | TIME RAIN | TIME RAIN |
| hrs mm/hr | hrs mm/hr | hrs mm/hr | hrs mm/hr |
0.083 0.00 | 3.167 3.24 | 6.250 23.54 | 9.33 3.24
0.167 0.00 | 3.250 4.32 | 6.333 23.54 | 9.42 3.24
0.250 3.24 | 3.333 4.32 | 6.417 23.54 | 9.50 3.24
0.333 3.24 | 3.417 4.32 | 6.500 23.54 | 9.58 3.24
0.417 3.24 | 3.500 4.32 | 6.583 23.54 | 9.67 3.24
0.500 3.24 | 3.583 4.32 | 6.667 23.54 | 9.75 2.59
0.583 3.24 | 3.667 4.32 | 6.750 10.37 | 9.83 2.59
0.667 3.24 | 3.750 4.32 | 6.833 10.37 | 9.92 2.59
0.750 1.51 | 3.833 4.32 | 6.917 10.37 | 10.00 2.59
0.833 1.51 | 3.917 4.32 | 7.000 10.37 | 10.08 2.59
0.917 1.51 | 4.000 4.32 | 7.083 10.37 | 10.17 2.59
1.000 1.51 | 4.083 4.32 | 7.167 10.37 | 10.25 3.67
1.083 1.51 | 4.167 4.32 | 7.250 6.91 | 10.33 3.67
1.167 1.51 | 4.250 5.83 | 7.333 6.91 | 10.42 3.67
1.250 2.81 | 4.333 5.83 | 7.417 6.91 | 10.50 3.67
1.333 2.81 | 4.417 5.83 | 7.500 6.91 | 10.58 3.67
1.417 2.81 | 4.500 5.83 | 7.583 6.91 | 10.67 3.67
1.500 2.81 | 4.583 5.83 | 7.667 6.91 | 10.75 2.38
1.583 2.81 | 4.667 5.83 | 7.750 6.05 | 10.83 2.38
1.667 2.81 | 4.750 7.34 | 7.833 6.05 | 10.92 2.38

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| CALIB |
| STANDHYD ( 0280) | Area (ha)= 0.90
| ID= 1 DT= 5.0 min | Total Imp(%)= 51.00 Dir. Conn.(%)= 51.00
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| IMPERVIOUS PERVIOUS (i) |
Surface Area (ha)= 0.46 0.44
Dep. Storage (mm)= 1.00 5.00
Average Slope (%)= 1.00 2.00
Length (m)= 77.64 40.00
Mannings n = 0.013 0.350

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

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| TRANSFORMED HYETOGRAPH |
| TIME RAIN | TIME RAIN | TIME RAIN | TIME RAIN |
| hrs mm/hr | hrs mm/hr | hrs mm/hr | hrs mm/hr |
0.083 0.00 | 3.167 3.24 | 6.250 23.54 | 9.33 3.24
0.167 0.00 | 3.250 4.32 | 6.333 23.54 | 9.42 3.24
0.250 3.24 | 3.333 4.32 | 6.417 23.54 | 9.50 3.24

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0.333	3.24	3.417	4.32	6.500	23.54	9.58	3.24
0.417	3.24	3.500	4.32	6.583	23.54	9.67	3.24
0.500	3.24	3.583	4.32	6.667	23.54	9.75	2.59
0.583	3.24	3.667	4.32	6.750	10.37	9.83	2.59
0.667	3.24	3.750	4.32	6.833	10.37	9.92	2.59
0.750	1.51	3.833	4.32	6.917	10.37	10.00	2.59
0.833	1.51	3.917	4.32	7.000	10.37	10.08	2.59
0.917	1.51	4.000	4.32	7.083	10.37	10.17	2.59
1.000	1.51	4.083	4.32	7.167	10.37	10.25	3.67
1.083	1.51	4.167	4.32	7.250	6.91	10.33	3.67
1.167	1.51	4.250	5.83	7.333	6.91	10.42	3.67
1.250	2.81	4.333	5.83	7.417	6.91	10.50	3.67
1.333	2.81	4.417	5.83	7.500	6.91	10.58	3.67
1.417	2.81	4.500	5.83	7.583	6.91	10.67	3.67
1.500	2.81	4.583	5.83	7.667	6.91	10.75	2.38
1.583	2.81	4.667	5.83	7.750	6.05	10.83	2.38
1.667	2.81	4.750	7.34	7.833	6.05	10.92	2.38
1.750	2.81	4.833	7.34	7.917	6.05	11.00	2.38
1.833	2.81	4.917	7.34	8.000	6.05	11.08	2.38
1.917	2.81	5.000	7.34	8.083	6.05	11.17	2.38
2.000	2.81	5.083	7.34	8.167	6.05	11.25	2.16
2.083	2.81	5.167	7.34	8.250	4.75	11.33	2.16
2.167	2.81	5.250	11.66	8.333	4.75	11.42	2.16
2.250	3.67	5.333	11.66	8.417	4.75	11.50	2.16
2.333	3.67	5.417	11.66	8.500	4.75	11.58	2.16
2.417	3.67	5.500	11.66	8.583	4.75	11.67	2.16
2.500	3.67	5.583	11.66	8.667	4.75	11.75	2.16
2.583	3.67	5.667	11.66	8.750	4.97	11.83	2.16
2.667	3.67	5.750	92.45	8.833	4.97	11.92	2.16
2.750	3.24	5.833	92.45	8.917	4.97	12.00	2.16
2.833	3.24	5.917	92.45	9.000	4.97	12.08	2.16
2.917	3.24	6.000	92.45	9.083	4.97	12.17	2.16
3.000	3.24	6.083	92.45	9.167	4.97		
3.083	3.24	6.167	92.45	9.250	3.24		

Max.Eff.Inten.(mm/hr)= 92.45 54.11
over (min) 5.00 15.00
Storage Coeff. (min)= 2.26 (ii) 13.31 (ii)
Unit Hyd. Tpeak (min)= 5.00 15.00
Unit Hyd. peak (cms)= 0.30 0.08

TOTALS
PEAK FLOW (cms)= 0.12 0.05 0.167 (iii)
TIME TO PEAK (hrs)= 6.08 6.25 6.17
RUNOFF VOLUME (mm)= 107.00 52.58 80.32
TOTAL RAINFALL (mm)= 108.00 108.00 108.00
RUNOFF COEFFICIENT = 0.99 0.49 0.74

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 72.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0057)				
1 + 2 = 3				
	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0280):	0.90	0.167	6.17	80.32
+ ID2= 2 (0281):	6.71	0.425	6.50	41.07
=====				
ID = 3 (0057):	7.61	0.491	6.42	45.71

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB				
NASHYD (0201)				
Area	(ha)=	30.53	Curve Number	(CN)= 71.0
Ia	(mm)=	10.70	# of Linear Res.(N)=	3.00
ID= 1 DT= 5.0 min	U.H. Tp(hrs)=	0.78		

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	3.24	6.250	23.54	9.33	3.24
0.167	0.00	3.250	4.32	6.333	23.54	9.42	3.24
0.250	3.24	3.333	4.32	6.417	23.54	9.50	3.24
0.333	3.24	3.417	4.32	6.500	23.54	9.58	3.24
0.417	3.24	3.500	4.32	6.583	23.54	9.67	3.24
0.500	3.24	3.583	4.32	6.667	23.54	9.75	2.59
0.583	3.24	3.667	4.32	6.750	10.37	9.83	2.59
0.667	3.24	3.750	4.32	6.833	10.37	9.92	2.59
0.750	1.51	3.833	4.32	6.917	10.37	10.00	2.59
0.833	1.51	3.917	4.32	7.000	10.37	10.08	2.59
0.917	1.51	4.000	4.32	7.083	10.37	10.17	2.59
1.000	1.51	4.083	4.32	7.167	10.37	10.25	3.67
1.083	1.51	4.167	4.32	7.250	6.91	10.33	3.67
1.167	1.51	4.250	5.83	7.333	6.91	10.42	3.67
1.250	2.81	4.333	5.83	7.417	6.91	10.50	3.67
1.333	2.81	4.417	5.83	7.500	6.91	10.58	3.67
1.417	2.81	4.500	5.83	7.583	6.91	10.67	3.67
1.500	2.81	4.583	5.83	7.667	6.91	10.75	2.38
1.583	2.81	4.667	5.83	7.750	6.05	10.83	2.38
1.667	2.81	4.750	7.34	7.833	6.05	10.92	2.38

1.750	2.81	4.833	7.34	7.917	6.05	11.00	2.38
1.833	2.81	4.917	7.34	8.000	6.05	11.08	2.38
1.917	2.81	5.000	7.34	8.083	6.05	11.17	2.38
2.000	2.81	5.083	7.34	8.167	6.05	11.25	2.16
2.083	2.81	5.167	7.34	8.250	4.75	11.33	2.16
2.167	2.81	5.250	11.66	8.333	4.75	11.42	2.16
2.250	3.67	5.333	11.66	8.417	4.75	11.50	2.16
2.333	3.67	5.417	11.66	8.500	4.75	11.58	2.16
2.417	3.67	5.500	11.66	8.583	4.75	11.67	2.16
2.500	3.67	5.583	11.66	8.667	4.75	11.75	2.16
2.583	3.67	5.667	11.66	8.750	4.97	11.83	2.16
2.667	3.67	5.750	92.45	8.833	4.97	11.92	2.16
2.750	3.24	5.833	92.45	8.917	4.97	12.00	2.16
2.833	3.24	5.917	92.45	9.000	4.97	12.08	2.16
2.917	3.24	6.000	92.45	9.083	4.97	12.17	2.16
3.000	3.24	6.083	92.45	9.167	4.97		
3.083	3.24	6.167	92.45	9.250	3.24		

0.333	3.24	3.417	4.32	6.500	23.54	9.58	3.24
0.417	3.24	3.500	4.32	6.583	23.54	9.67	3.24
0.500	3.24	3.583	4.32	6.667	23.54	9.75	2.59
0.583	3.24	3.667	4.32	6.750	10.37	9.83	2.59
0.667	3.24	3.750	4.32	6.833	10.37	9.92	2.59
0.750	1.51	3.833	4.32	6.917	10.37	10.00	2.59
0.833	1.51	3.917	4.32	7.000	10.37	10.08	2.59
0.917	1.51	4.000	4.32	7.083	10.37	10.17	2.59
1.000	1.51	4.083	4.32	7.167	10.37	10.25	3.67
1.083	1.51	4.167	4.32	7.250	6.91	10.33	3.67
1.167	1.51	4.250	5.83	7.333	6.91	10.42	3.67
1.250	2.81	4.333	5.83	7.417	6.91	10.50	3.67
1.333	2.81	4.417	5.83	7.500	6.91	10.58	3.67
1.417	2.81	4.500	5.83	7.583	6.91	10.67	3.67
1.500	2.81	4.583	5.83	7.667	6.91	10.75	2.38
1.583	2.81	4.667	5.83	7.750	6.05	10.83	2.38
1.667	2.81	4.750	7.34	7.833	6.05	10.92	2.38
1.750	2.81	4.833	7.34	7.917	6.05	11.00	2.38
1.833	2.81	4.917	7.34	8.000	6.05	11.08	2.38
1.917	2.81	5.000	7.34	8.083	6.05	11.17	2.38
2.000	2.81	5.083	7.34	8.167	6.05	11.25	2.16
2.083	2.81	5.167	7.34	8.250	4.75	11.33	2.16
2.167	2.81	5.250	11.66	8.333	4.75	11.42	2.16
2.250	3.67	5.333	11.66	8.417	4.75	11.50	2.16
2.333	3.67	5.417	11.66	8.500	4.75	11.58	2.16
2.417	3.67	5.500	11.66	8.583	4.75	11.67	2.16
2.500	3.67	5.583	11.66	8.667	4.75	11.75	2.16
2.583	3.67	5.667	11.66	8.750	4.97	11.83	2.16
2.667	3.67	5.750	92.45	8.833	4.97	11.92	2.16
2.750	3.24	5.833	92.45	8.917	4.97	12.00	2.16
2.833	3.24	5.917	92.45	9.000	4.97	12.08	2.16
2.917	3.24	6.000	92.45	9.083	4.97	12.17	2.16
3.000	3.24	6.083	92.45	9.167	4.97		
3.083	3.24	6.167	92.45	9.250	3.24		

Unit Hyd Qpeak (cms)= 1.495

PEAK FLOW (cms)= 1.552 (i)
 TIME TO PEAK (hrs)= 6.917
 RUNOFF VOLUME (mm)= 47.090
 TOTAL RAINFALL (mm)= 108.000
 RUNOFF COEFFICIENT = 0.436

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | STANDHYD (0200) | Area (ha)= 5.18
 | ID= 1 DT= 5.0 min | Total Imp(%)= 33.00 Dir. Conn.(%)= 33.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	1.71	3.47
Dep. Storage (mm)=	1.00	5.00
Average Slope (%)=	1.00	2.00
Length (m)=	185.83	40.00
Mannings n =	0.013	0.350

Max.Eff.Inten.(mm/hr)=	92.45	54.11
over (min)	5.00	15.00
Storage Coeff. (min)=	3.82 (ii)	14.86 (ii)
Unit Hyd. Tpeak (min)=	5.00	15.00
Unit Hyd. peak (cms)=	0.25	0.08

TOTALS

PEAK FLOW (cms)=	0.44	0.39	0.809 (iii)
TIME TO PEAK (hrs)=	6.17	6.25	6.17
RUNOFF VOLUME (mm)=	107.00	52.58	70.54
TOTAL RAINFALL (mm)=	108.00	108.00	108.00
RUNOFF COEFFICIENT =	0.99	0.49	0.65

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	3.24	6.250	23.54	9.33	3.24
0.167	0.00	3.250	4.32	6.333	23.54	9.42	3.24
0.250	3.24	3.333	4.32	6.417	23.54	9.50	3.24

CN* = 72.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```

-----
| ADD HYD ( 0033) |
| 1 + 2 = 3 |
-----
| AREA QPEAK TPEAK R.V. |
| (ha) (cms) (hrs) (mm) |
ID1= 1 ( 0200): 5.18 0.809 6.17 70.54
+ ID2= 2 ( 0201): 30.53 1.552 6.92 47.09
=====
ID = 3 ( 0033): 35.71 1.766 6.67 50.49

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| CALIB |
| NASHYD ( 0211) | Area (ha)= 2.02 Curve Number (CN)= 72.0
| ID= 1 DT= 5.0 min | Ia (mm)= 10.50 # of Linear Res.(N)= 3.00
-----
| U.H. Tp(hrs)= 0.16 |

```

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

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-----
| TRANSFORMED HYETOGRAPH |
| TIME RAIN | TIME RAIN | TIME RAIN | TIME RAIN |
| hrs mm/hr | hrs mm/hr | hrs mm/hr | hrs mm/hr |
0.083 0.00 | 3.167 3.24 | 6.250 23.54 | 9.33 3.24
0.167 0.00 | 3.250 4.32 | 6.333 23.54 | 9.42 3.24
0.250 3.24 | 3.333 4.32 | 6.417 23.54 | 9.50 3.24
0.333 3.24 | 3.417 4.32 | 6.500 23.54 | 9.58 3.24
0.417 3.24 | 3.500 4.32 | 6.583 23.54 | 9.67 3.24
0.500 3.24 | 3.583 4.32 | 6.667 23.54 | 9.75 2.59
0.583 3.24 | 3.667 4.32 | 6.750 10.37 | 9.83 2.59
0.667 3.24 | 3.750 4.32 | 6.833 10.37 | 9.92 2.59
0.750 1.51 | 3.833 4.32 | 6.917 10.37 | 10.00 2.59
0.833 1.51 | 3.917 4.32 | 7.000 10.37 | 10.08 2.59
0.917 1.51 | 4.000 4.32 | 7.083 10.37 | 10.17 2.59
1.000 1.51 | 4.083 4.32 | 7.167 10.37 | 10.25 3.67
1.083 1.51 | 4.167 4.32 | 7.250 6.91 | 10.33 3.67
1.167 1.51 | 4.250 5.83 | 7.333 6.91 | 10.42 3.67
1.250 2.81 | 4.333 5.83 | 7.417 6.91 | 10.50 3.67
1.333 2.81 | 4.417 5.83 | 7.500 6.91 | 10.58 3.67
1.417 2.81 | 4.500 5.83 | 7.583 6.91 | 10.67 3.67
1.500 2.81 | 4.583 5.83 | 7.667 6.91 | 10.75 2.38
1.583 2.81 | 4.667 5.83 | 7.750 6.05 | 10.83 2.38
1.667 2.81 | 4.750 7.34 | 7.833 6.05 | 10.92 2.38

```

1.750	2.81	4.833	7.34	7.917	6.05	11.00	2.38
1.833	2.81	4.917	7.34	8.000	6.05	11.08	2.38
1.917	2.81	5.000	7.34	8.083	6.05	11.17	2.38
2.000	2.81	5.083	7.34	8.167	6.05	11.25	2.16
2.083	2.81	5.167	7.34	8.250	4.75	11.33	2.16
2.167	2.81	5.250	11.66	8.333	4.75	11.42	2.16
2.250	3.67	5.333	11.66	8.417	4.75	11.50	2.16
2.333	3.67	5.417	11.66	8.500	4.75	11.58	2.16
2.417	3.67	5.500	11.66	8.583	4.75	11.67	2.16
2.500	3.67	5.583	11.66	8.667	4.75	11.75	2.16
2.583	3.67	5.667	11.66	8.750	4.97	11.83	2.16
2.667	3.67	5.750	92.45	8.833	4.97	11.92	2.16
2.750	3.24	5.833	92.45	8.917	4.97	12.00	2.16
2.833	3.24	5.917	92.45	9.000	4.97	12.08	2.16
2.917	3.24	6.000	92.45	9.083	4.97	12.17	2.16
3.000	3.24	6.083	92.45	9.167	4.97		
3.083	3.24	6.167	92.45	9.250	3.24		

Unit Hyd Qpeak (cms)= 0.482

PEAK FLOW (cms)= 0.256 (i)
TIME TO PEAK (hrs)= 6.167
RUNOFF VOLUME (mm)= 48.214
TOTAL RAINFALL (mm)= 108.000
RUNOFF COEFFICIENT = 0.446

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```

-----
| CALIB |
| STANDHYD ( 0210) | Area (ha)= 0.57
| ID= 1 DT= 5.0 min | Total Imp(%)= 30.00 Dir. Conn.(%)= 30.00
-----
| IMPERVIOUS PERVIOUS (i) |
Surface Area (ha)= 0.17 0.40
Dep. Storage (mm)= 1.00 5.00
Average Slope (%)= 1.00 2.00
Length (m)= 61.73 40.00
Mannings n = 0.013 0.350

```

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

```

-----
| TRANSFORMED HYETOGRAPH |
| TIME RAIN | TIME RAIN | TIME RAIN | TIME RAIN |
| hrs mm/hr | hrs mm/hr | hrs mm/hr | hrs mm/hr |
0.083 0.00 | 3.167 3.24 | 6.250 23.54 | 9.33 3.24
0.167 0.00 | 3.250 4.32 | 6.333 23.54 | 9.42 3.24
0.250 3.24 | 3.333 4.32 | 6.417 23.54 | 9.50 3.24

```


0.333	3.24	3.417	4.32	6.500	23.54	9.58	3.24
0.417	3.24	3.500	4.32	6.583	23.54	9.67	3.24
0.500	3.24	3.583	4.32	6.667	23.54	9.75	2.59
0.583	3.24	3.667	4.32	6.750	10.37	9.83	2.59
0.667	3.24	3.750	4.32	6.833	10.37	9.92	2.59
0.750	1.51	3.833	4.32	6.917	10.37	10.00	2.59
0.833	1.51	3.917	4.32	7.000	10.37	10.08	2.59
0.917	1.51	4.000	4.32	7.083	10.37	10.17	2.59
1.000	1.51	4.083	4.32	7.167	10.37	10.25	3.67
1.083	1.51	4.167	4.32	7.250	6.91	10.33	3.67
1.167	1.51	4.250	5.83	7.333	6.91	10.42	3.67
1.250	2.81	4.333	5.83	7.417	6.91	10.50	3.67
1.333	2.81	4.417	5.83	7.500	6.91	10.58	3.67
1.417	2.81	4.500	5.83	7.583	6.91	10.67	3.67
1.500	2.81	4.583	5.83	7.667	6.91	10.75	2.38
1.583	2.81	4.667	5.83	7.750	6.05	10.83	2.38
1.667	2.81	4.750	7.34	7.833	6.05	10.92	2.38
1.750	2.81	4.833	7.34	7.917	6.05	11.00	2.38
1.833	2.81	4.917	7.34	8.000	6.05	11.08	2.38
1.917	2.81	5.000	7.34	8.083	6.05	11.17	2.38
2.000	2.81	5.083	7.34	8.167	6.05	11.25	2.16
2.083	2.81	5.167	7.34	8.250	4.75	11.33	2.16
2.167	2.81	5.250	11.66	8.333	4.75	11.42	2.16
2.250	3.67	5.333	11.66	8.417	4.75	11.50	2.16
2.333	3.67	5.417	11.66	8.500	4.75	11.58	2.16
2.417	3.67	5.500	11.66	8.583	4.75	11.67	2.16
2.500	3.67	5.583	11.66	8.667	4.75	11.75	2.16
2.583	3.67	5.667	11.66	8.750	4.97	11.83	2.16
2.667	3.67	5.750	92.45	8.833	4.97	11.92	2.16
2.750	3.24	5.833	92.45	8.917	4.97	12.00	2.16
2.833	3.24	5.917	92.45	9.000	4.97	12.08	2.16
2.917	3.24	6.000	92.45	9.083	4.97	12.17	2.16
3.000	3.24	6.083	92.45	9.167	4.97		
3.083	3.24	6.167	92.45	9.250	3.24		

Max.Eff.Inten.(mm/hr)= 92.45 50.18
over (min) 5.00 15.00
Storage Coeff. (min)= 1.97 (ii) 13.35 (ii)
Unit Hyd. Tpeak (min)= 5.00 15.00
Unit Hyd. peak (cms)= 0.31 0.08

TOTALS
PEAK FLOW (cms)= 0.04 0.04 0.085 (iii)
TIME TO PEAK (hrs)= 6.08 6.25 6.17
RUNOFF VOLUME (mm)= 107.00 48.86 66.29
TOTAL RAINFALL (mm)= 108.00 108.00 108.00
RUNOFF COEFFICIENT = 0.99 0.45 0.61

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```

-----
| ADD HYD ( 0036) |
| 1 + 2 = 3 |
-----
ID1= 1 ( 0210): 0.57 0.085 6.17 66.29
+ ID2= 2 ( 0211): 2.02 0.256 6.17 48.21
=====
ID = 3 ( 0036): 2.59 0.341 6.17 52.19

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| CALIB |
| NASHYD ( 0195) | Area (ha)= 496.69 Curve Number (CN)= 74.0
| ID= 1 DT= 5.0 min | Ia (mm)= 9.20 # of Linear Res.(N)= 3.00
-----
U.H. Tp(hrs)= 4.78

```

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

```

----- TRANSFORMED HYETOGRAPH -----
TIME RAIN | TIME RAIN | TIME RAIN | TIME RAIN
hrs mm/hr | hrs mm/hr | hrs mm/hr | hrs mm/hr
0.083 0.00 | 3.167 3.24 | 6.250 23.54 | 9.33 3.24
0.167 0.00 | 3.250 4.32 | 6.333 23.54 | 9.42 3.24
0.250 3.24 | 3.333 4.32 | 6.417 23.54 | 9.50 3.24
0.333 3.24 | 3.417 4.32 | 6.500 23.54 | 9.58 3.24
0.417 3.24 | 3.500 4.32 | 6.583 23.54 | 9.67 3.24
0.500 3.24 | 3.583 4.32 | 6.667 23.54 | 9.75 2.59
0.583 3.24 | 3.667 4.32 | 6.750 10.37 | 9.83 2.59
0.667 3.24 | 3.750 4.32 | 6.833 10.37 | 9.92 2.59
0.750 1.51 | 3.833 4.32 | 6.917 10.37 | 10.00 2.59
0.833 1.51 | 3.917 4.32 | 7.000 10.37 | 10.08 2.59
0.917 1.51 | 4.000 4.32 | 7.083 10.37 | 10.17 2.59
1.000 1.51 | 4.083 4.32 | 7.167 10.37 | 10.25 3.67
1.083 1.51 | 4.167 4.32 | 7.250 6.91 | 10.33 3.67
1.167 1.51 | 4.250 5.83 | 7.333 6.91 | 10.42 3.67
1.250 2.81 | 4.333 5.83 | 7.417 6.91 | 10.50 3.67
1.333 2.81 | 4.417 5.83 | 7.500 6.91 | 10.58 3.67
1.417 2.81 | 4.500 5.83 | 7.583 6.91 | 10.67 3.67
1.500 2.81 | 4.583 5.83 | 7.667 6.91 | 10.75 2.38
1.583 2.81 | 4.667 5.83 | 7.750 6.05 | 10.83 2.38
1.667 2.81 | 4.750 7.34 | 7.833 6.05 | 10.92 2.38

```

1.750	2.81	4.833	7.34	7.917	6.05	11.00	2.38
1.833	2.81	4.917	7.34	8.000	6.05	11.08	2.38
1.917	2.81	5.000	7.34	8.083	6.05	11.17	2.38
2.000	2.81	5.083	7.34	8.167	6.05	11.25	2.16
2.083	2.81	5.167	7.34	8.250	4.75	11.33	2.16
2.167	2.81	5.250	11.66	8.333	4.75	11.42	2.16
2.250	3.67	5.333	11.66	8.417	4.75	11.50	2.16
2.333	3.67	5.417	11.66	8.500	4.75	11.58	2.16
2.417	3.67	5.500	11.66	8.583	4.75	11.67	2.16
2.500	3.67	5.583	11.66	8.667	4.75	11.75	2.16
2.583	3.67	5.667	11.66	8.750	4.97	11.83	2.16
2.667	3.67	5.750	92.45	8.833	4.97	11.92	2.16
2.750	3.24	5.833	92.45	8.917	4.97	12.00	2.16
2.833	3.24	5.917	92.45	9.000	4.97	12.08	2.16
2.917	3.24	6.000	92.45	9.083	4.97	12.17	2.16
3.000	3.24	6.083	92.45	9.167	4.97		
3.083	3.24	6.167	92.45	9.250	3.24		

0.833	1.51	3.917	4.32	7.000	10.37	10.08	2.59
0.917	1.51	4.000	4.32	7.083	10.37	10.17	2.59
1.000	1.51	4.083	4.32	7.167	10.37	10.25	3.67
1.083	1.51	4.167	4.32	7.250	6.91	10.33	3.67
1.167	1.51	4.250	5.83	7.333	6.91	10.42	3.67
1.250	2.81	4.333	5.83	7.417	6.91	10.50	3.67
1.333	2.81	4.417	5.83	7.500	6.91	10.58	3.67
1.417	2.81	4.500	5.83	7.583	6.91	10.67	3.67
1.500	2.81	4.583	5.83	7.667	6.91	10.75	2.38
1.583	2.81	4.667	5.83	7.750	6.05	10.83	2.38
1.667	2.81	4.750	7.34	7.833	6.05	10.92	2.38
1.750	2.81	4.833	7.34	7.917	6.05	11.00	2.38
1.833	2.81	4.917	7.34	8.000	6.05	11.08	2.38
1.917	2.81	5.000	7.34	8.083	6.05	11.17	2.38
2.000	2.81	5.083	7.34	8.167	6.05	11.25	2.16
2.083	2.81	5.167	7.34	8.250	4.75	11.33	2.16
2.167	2.81	5.250	11.66	8.333	4.75	11.42	2.16
2.250	3.67	5.333	11.66	8.417	4.75	11.50	2.16
2.333	3.67	5.417	11.66	8.500	4.75	11.58	2.16
2.417	3.67	5.500	11.66	8.583	4.75	11.67	2.16
2.500	3.67	5.583	11.66	8.667	4.75	11.75	2.16
2.583	3.67	5.667	11.66	8.750	4.97	11.83	2.16
2.667	3.67	5.750	92.45	8.833	4.97	11.92	2.16
2.750	3.24	5.833	92.45	8.917	4.97	12.00	2.16
2.833	3.24	5.917	92.45	9.000	4.97	12.08	2.16
2.917	3.24	6.000	92.45	9.083	4.97	12.17	2.16
3.000	3.24	6.083	92.45	9.167	4.97		
3.083	3.24	6.167	92.45	9.250	3.24		

Unit Hyd Qpeak (cms)= 3.969

PEAK FLOW (cms)= 7.133 (i)
 TIME TO PEAK (hrs)= 11.833
 RUNOFF VOLUME (mm)= 51.911
 TOTAL RAINFALL (mm)= 108.000
 RUNOFF COEFFICIENT = 0.481

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

Unit Hyd Qpeak (cms)= 4.466

PEAK FLOW (cms)= 4.430 (i)
 TIME TO PEAK (hrs)= 6.667
 RUNOFF VOLUME (mm)= 50.338
 TOTAL RAINFALL (mm)= 108.000
 RUNOFF COEFFICIENT = 0.466

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | NASHYD (0196) | Area (ha)= 65.48 Curve Number (CN)= 73.0
 | ID= 1 DT= 5.0 min | Ia (mm)= 9.60 # of Linear Res.(N)= 3.00

 U.H. Tp(hrs)= 0.56

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	3.24	6.250	23.54	9.33	3.24
0.167	0.00	3.250	4.32	6.333	23.54	9.42	3.24
0.250	3.24	3.333	4.32	6.417	23.54	9.50	3.24
0.333	3.24	3.417	4.32	6.500	23.54	9.58	3.24
0.417	3.24	3.500	4.32	6.583	23.54	9.67	3.24
0.500	3.24	3.583	4.32	6.667	23.54	9.75	2.59
0.583	3.24	3.667	4.32	6.750	10.37	9.83	2.59
0.667	3.24	3.750	4.32	6.833	10.37	9.92	2.59
0.750	1.51	3.833	4.32	6.917	10.37	10.00	2.59

 | ADD HYD (0059) |
 | 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
 ----- (ha) (cms) (hrs) (mm)
 ID1= 1 (0195): 496.69 7.133 11.83 51.91
 + ID2= 2 (0196): 65.48 4.430 6.67 50.34
 =====
 ID = 3 (0059): 562.17 7.484 11.58 51.73

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| ADD HYD ( 0059) |
| 3 + 2 = 1 |
-----
          AREA   QPEAK   TPEAK   R.V.
          (ha)   (cms)   (hrs)   (mm)
ID1= 3 ( 0059): 562.17 7.484 11.58 51.73
+ ID2= 2 ( 0033): 35.71 1.766 6.67 50.49
=====
ID = 1 ( 0059): 597.88 7.695 11.42 51.65

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| ADD HYD ( 0059) |
| 1 + 2 = 3 |
-----
          AREA   QPEAK   TPEAK   R.V.
          (ha)   (cms)   (hrs)   (mm)
ID1= 1 ( 0059): 597.88 7.695 11.42 51.65
+ ID2= 2 ( 0036): 2.59 0.341 6.17 52.19
=====
ID = 3 ( 0059): 600.47 7.707 11.42 51.66

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| CALIB |
| NASHYD ( 0194) | Area (ha)= 160.45 Curve Number (CN)= 74.0
| ID= 1 DT= 5.0 min | Ia (mm)= 9.10 # of Linear Res.(N)= 3.00
-----
U.H. Tp(hrs)= 1.95

```

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

```

-----
---- TRANSFORMED HYETOGRAPH ----
TIME RAIN | TIME RAIN | TIME RAIN | TIME RAIN
hrs mm/hr | hrs mm/hr | hrs mm/hr | hrs mm/hr
0.083 0.00 | 3.167 3.24 | 6.250 23.54 | 9.33 3.24
0.167 0.00 | 3.250 4.32 | 6.333 23.54 | 9.42 3.24
0.250 3.24 | 3.333 4.32 | 6.417 23.54 | 9.50 3.24
0.333 3.24 | 3.417 4.32 | 6.500 23.54 | 9.58 3.24
0.417 3.24 | 3.500 4.32 | 6.583 23.54 | 9.67 3.24
0.500 3.24 | 3.583 4.32 | 6.667 23.54 | 9.75 2.59
0.583 3.24 | 3.667 4.32 | 6.750 10.37 | 9.83 2.59
0.667 3.24 | 3.750 4.32 | 6.833 10.37 | 9.92 2.59
0.750 1.51 | 3.833 4.32 | 6.917 10.37 | 10.00 2.59
0.833 1.51 | 3.917 4.32 | 7.000 10.37 | 10.08 2.59
0.917 1.51 | 4.000 4.32 | 7.083 10.37 | 10.17 2.59
1.000 1.51 | 4.083 4.32 | 7.167 10.37 | 10.25 3.67

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1.083 1.51 | 4.167 4.32 | 7.250 6.91 | 10.33 3.67
1.167 1.51 | 4.250 5.83 | 7.333 6.91 | 10.42 3.67
1.250 2.81 | 4.333 5.83 | 7.417 6.91 | 10.50 3.67
1.333 2.81 | 4.417 5.83 | 7.500 6.91 | 10.58 3.67
1.417 2.81 | 4.500 5.83 | 7.583 6.91 | 10.67 3.67
1.500 2.81 | 4.583 5.83 | 7.667 6.91 | 10.75 2.38
1.583 2.81 | 4.667 5.83 | 7.750 6.05 | 10.83 2.38
1.667 2.81 | 4.750 7.34 | 7.833 6.05 | 10.92 2.38
1.750 2.81 | 4.833 7.34 | 7.917 6.05 | 11.00 2.38
1.833 2.81 | 4.917 7.34 | 8.000 6.05 | 11.08 2.38
1.917 2.81 | 5.000 7.34 | 8.083 6.05 | 11.17 2.38
2.000 2.81 | 5.083 7.34 | 8.167 6.05 | 11.25 2.16
2.083 2.81 | 5.167 7.34 | 8.250 4.75 | 11.33 2.16
2.167 2.81 | 5.250 11.66 | 8.333 4.75 | 11.42 2.16
2.250 3.67 | 5.333 11.66 | 8.417 4.75 | 11.50 2.16
2.333 3.67 | 5.417 11.66 | 8.500 4.75 | 11.58 2.16
2.417 3.67 | 5.500 11.66 | 8.583 4.75 | 11.67 2.16
2.500 3.67 | 5.583 11.66 | 8.667 4.75 | 11.75 2.16
2.583 3.67 | 5.667 11.66 | 8.750 4.97 | 11.83 2.16
2.667 3.67 | 5.750 92.45 | 8.833 4.97 | 11.92 2.16
2.750 3.24 | 5.833 92.45 | 8.917 4.97 | 12.00 2.16
2.833 3.24 | 5.917 92.45 | 9.000 4.97 | 12.08 2.16
2.917 3.24 | 6.000 92.45 | 9.083 4.97 | 12.17 2.16
3.000 3.24 | 6.083 92.45 | 9.167 4.97 |
3.083 3.24 | 6.167 92.45 | 9.250 3.24 |

```

Unit Hyd Qpeak (cms)= 3.143

PEAK FLOW (cms)= 4.626 (i)
TIME TO PEAK (hrs)= 8.333
RUNOFF VOLUME (mm)= 51.988
TOTAL RAINFALL (mm)= 108.000
RUNOFF COEFFICIENT = 0.481

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```

-----
| ADD HYD ( 0016) |
| 1 + 2 = 3 |
-----
          AREA   QPEAK   TPEAK   R.V.
          (ha)   (cms)   (hrs)   (mm)
ID1= 1 ( 0194): 160.45 4.626 8.33 51.99
+ ID2= 2 ( 0059): 600.47 7.707 11.42 51.66
=====
ID = 3 ( 0016): 760.92 10.731 9.42 51.73

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| CALIB |
 | NASHYD (0193) | Area (ha)= 48.63 Curve Number (CN)= 64.0
 | ID= 1 DT= 5.0 min | Ia (mm)= 16.40 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 1.31

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	3.24	6.250	23.54	9.33	3.24
0.167	0.00	3.250	4.32	6.333	23.54	9.42	3.24
0.250	3.24	3.333	4.32	6.417	23.54	9.50	3.24
0.333	3.24	3.417	4.32	6.500	23.54	9.58	3.24
0.417	3.24	3.500	4.32	6.583	23.54	9.67	3.24
0.500	3.24	3.583	4.32	6.667	23.54	9.75	2.59
0.583	3.24	3.667	4.32	6.750	10.37	9.83	2.59
0.667	3.24	3.750	4.32	6.833	10.37	9.92	2.59
0.750	1.51	3.833	4.32	6.917	10.37	10.00	2.59
0.833	1.51	3.917	4.32	7.000	10.37	10.08	2.59
0.917	1.51	4.000	4.32	7.083	10.37	10.17	2.59
1.000	1.51	4.083	4.32	7.167	10.37	10.25	3.67
1.083	1.51	4.167	4.32	7.250	6.91	10.33	3.67
1.167	1.51	4.250	5.83	7.333	6.91	10.42	3.67
1.250	2.81	4.333	5.83	7.417	6.91	10.50	3.67
1.333	2.81	4.417	5.83	7.500	6.91	10.58	3.67
1.417	2.81	4.500	5.83	7.583	6.91	10.67	3.67
1.500	2.81	4.583	5.83	7.667	6.91	10.75	2.38
1.583	2.81	4.667	5.83	7.750	6.05	10.83	2.38
1.667	2.81	4.750	7.34	7.833	6.05	10.92	2.38
1.750	2.81	4.833	7.34	7.917	6.05	11.00	2.38
1.833	2.81	4.917	7.34	8.000	6.05	11.08	2.38
1.917	2.81	5.000	7.34	8.083	6.05	11.17	2.38
2.000	2.81	5.083	7.34	8.167	6.05	11.25	2.16
2.083	2.81	5.167	7.34	8.250	4.75	11.33	2.16
2.167	2.81	5.250	11.66	8.333	4.75	11.42	2.16
2.250	3.67	5.333	11.66	8.417	4.75	11.50	2.16
2.333	3.67	5.417	11.66	8.500	4.75	11.58	2.16
2.417	3.67	5.500	11.66	8.583	4.75	11.67	2.16
2.500	3.67	5.583	11.66	8.667	4.75	11.75	2.16
2.583	3.67	5.667	11.66	8.750	4.97	11.83	2.16
2.667	3.67	5.750	92.45	8.833	4.97	11.92	2.16
2.750	3.24	5.833	92.45	8.917	4.97	12.00	2.16
2.833	3.24	5.917	92.45	9.000	4.97	12.08	2.16
2.917	3.24	6.000	92.45	9.083	4.97	12.17	2.16
3.000	3.24	6.083	92.45	9.167	4.97		
3.083	3.24	6.167	92.45	9.250	3.24		

Unit Hyd Qpeak (cms)= 1.418

PEAK FLOW (cms)= 1.256 (i)
 TIME TO PEAK (hrs)= 7.667
 RUNOFF VOLUME (mm)= 35.784
 TOTAL RAINFALL (mm)= 108.000
 RUNOFF COEFFICIENT = 0.331

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | ADD HYD (0060) |
 | 1 + 2 = 3 | AREA (ha) QPEAK (cms) TPEAK (hrs) R.V. (mm)

 ID1= 1 (0016): 760.92 10.731 9.42 51.73
 + ID2= 2 (0193): 48.63 1.256 7.67 35.78

 ID = 3 (0060): 809.55 11.509 9.17 50.77

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

 | CALIB |
 | NASHYD (0191) | Area (ha)= 147.11 Curve Number (CN)= 67.0
 | ID= 1 DT= 5.0 min | Ia (mm)= 13.40 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 1.83

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	3.24	6.250	23.54	9.33	3.24
0.167	0.00	3.250	4.32	6.333	23.54	9.42	3.24
0.250	3.24	3.333	4.32	6.417	23.54	9.50	3.24
0.333	3.24	3.417	4.32	6.500	23.54	9.58	3.24
0.417	3.24	3.500	4.32	6.583	23.54	9.67	3.24
0.500	3.24	3.583	4.32	6.667	23.54	9.75	2.59
0.583	3.24	3.667	4.32	6.750	10.37	9.83	2.59
0.667	3.24	3.750	4.32	6.833	10.37	9.92	2.59
0.750	1.51	3.833	4.32	6.917	10.37	10.00	2.59
0.833	1.51	3.917	4.32	7.000	10.37	10.08	2.59
0.917	1.51	4.000	4.32	7.083	10.37	10.17	2.59
1.000	1.51	4.083	4.32	7.167	10.37	10.25	3.67
1.083	1.51	4.167	4.32	7.250	6.91	10.33	3.67
1.167	1.51	4.250	5.83	7.333	6.91	10.42	3.67
1.250	2.81	4.333	5.83	7.417	6.91	10.50	3.67
1.333	2.81	4.417	5.83	7.500	6.91	10.58	3.67

1.417	2.81	4.500	5.83	7.583	6.91	10.67	3.67
1.500	2.81	4.583	5.83	7.667	6.91	10.75	2.38
1.583	2.81	4.667	5.83	7.750	6.05	10.83	2.38
1.667	2.81	4.750	7.34	7.833	6.05	10.92	2.38
1.750	2.81	4.833	7.34	7.917	6.05	11.00	2.38
1.833	2.81	4.917	7.34	8.000	6.05	11.08	2.38
1.917	2.81	5.000	7.34	8.083	6.05	11.17	2.38
2.000	2.81	5.083	7.34	8.167	6.05	11.25	2.16
2.083	2.81	5.167	7.34	8.250	4.75	11.33	2.16
2.167	2.81	5.250	11.66	8.333	4.75	11.42	2.16
2.250	3.67	5.333	11.66	8.417	4.75	11.50	2.16
2.333	3.67	5.417	11.66	8.500	4.75	11.58	2.16
2.417	3.67	5.500	11.66	8.583	4.75	11.67	2.16
2.500	3.67	5.583	11.66	8.667	4.75	11.75	2.16
2.583	3.67	5.667	11.66	8.750	4.97	11.83	2.16
2.667	3.67	5.750	92.45	8.833	4.97	11.92	2.16
2.750	3.24	5.833	92.45	8.917	4.97	12.00	2.16
2.833	3.24	5.917	92.45	9.000	4.97	12.08	2.16
2.917	3.24	6.000	92.45	9.083	4.97	12.17	2.16
3.000	3.24	6.083	92.45	9.167	4.97		
3.083	3.24	6.167	92.45	9.250	3.24		

hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	3.24	6.250	23.54	9.33	3.24
0.167	0.00	3.250	4.32	6.333	23.54	9.42	3.24
0.250	3.24	3.333	4.32	6.417	23.54	9.50	3.24
0.333	3.24	3.417	4.32	6.500	23.54	9.58	3.24
0.417	3.24	3.500	4.32	6.583	23.54	9.67	3.24
0.500	3.24	3.583	4.32	6.667	23.54	9.75	2.59
0.583	3.24	3.667	4.32	6.750	10.37	9.83	2.59
0.667	3.24	3.750	4.32	6.833	10.37	9.92	2.59
0.750	1.51	3.833	4.32	6.917	10.37	10.00	2.59
0.833	1.51	3.917	4.32	7.000	10.37	10.08	2.59
0.917	1.51	4.000	4.32	7.083	10.37	10.17	2.59
1.000	1.51	4.083	4.32	7.167	10.37	10.25	3.67
1.083	1.51	4.167	4.32	7.250	6.91	10.33	3.67
1.167	1.51	4.250	5.83	7.333	6.91	10.42	3.67
1.250	2.81	4.333	5.83	7.417	6.91	10.50	3.67
1.333	2.81	4.417	5.83	7.500	6.91	10.58	3.67
1.417	2.81	4.500	5.83	7.583	6.91	10.67	3.67
1.500	2.81	4.583	5.83	7.667	6.91	10.75	2.38
1.583	2.81	4.667	5.83	7.750	6.05	10.83	2.38
1.667	2.81	4.750	7.34	7.833	6.05	10.92	2.38
1.750	2.81	4.833	7.34	7.917	6.05	11.00	2.38
1.833	2.81	4.917	7.34	8.000	6.05	11.08	2.38
1.917	2.81	5.000	7.34	8.083	6.05	11.17	2.38
2.000	2.81	5.083	7.34	8.167	6.05	11.25	2.16
2.083	2.81	5.167	7.34	8.250	4.75	11.33	2.16
2.167	2.81	5.250	11.66	8.333	4.75	11.42	2.16
2.250	3.67	5.333	11.66	8.417	4.75	11.50	2.16
2.333	3.67	5.417	11.66	8.500	4.75	11.58	2.16
2.417	3.67	5.500	11.66	8.583	4.75	11.67	2.16
2.500	3.67	5.583	11.66	8.667	4.75	11.75	2.16
2.583	3.67	5.667	11.66	8.750	4.97	11.83	2.16
2.667	3.67	5.750	92.45	8.833	4.97	11.92	2.16
2.750	3.24	5.833	92.45	8.917	4.97	12.00	2.16
2.833	3.24	5.917	92.45	9.000	4.97	12.08	2.16
2.917	3.24	6.000	92.45	9.083	4.97	12.17	2.16
3.000	3.24	6.083	92.45	9.167	4.97		
3.083	3.24	6.167	92.45	9.250	3.24		

Unit Hyd Qpeak (cms)= 3.070

PEAK FLOW (cms)= 3.419 (i)
 TIME TO PEAK (hrs)= 8.250
 RUNOFF VOLUME (mm)= 40.733
 TOTAL RAINFALL (mm)= 108.000
 RUNOFF COEFFICIENT = 0.377

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	
STANDHYD (0190)	Area (ha)= 2.29
ID= 1 DT= 5.0 min	Total Imp(%)= 46.00 Dir. Conn.(%)= 46.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	1.05	1.24
Dep. Storage (mm)=	1.00	5.00
Average Slope (%)=	1.00	2.00
Length (m)=	123.53	40.00
Mannings n =	0.013	0.350

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----
 TIME RAIN | TIME RAIN | TIME RAIN | TIME RAIN

Max.Eff.Inten.(mm/hr)=	92.45	36.54
over (min)	5.00	20.00
Storage Coeff. (min)=	2.99 (ii)	15.91 (ii)
Unit Hyd. Tpeak (min)=	5.00	20.00
Unit Hyd. peak (cms)=	0.28	0.07

TOTALS

PEAK FLOW (cms)=	0.27	0.09	0.345 (iii)
TIME TO PEAK (hrs)=	6.17	6.33	6.17
RUNOFF VOLUME (mm)=	107.00	36.01	68.66
TOTAL RAINFALL (mm)=	108.00	108.00	108.00
RUNOFF COEFFICIENT =	0.99	0.33	0.64

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

1.417	2.81	4.500	5.83	7.583	6.91	10.67	3.67
1.500	2.81	4.583	5.83	7.667	6.91	10.75	2.38
1.583	2.81	4.667	5.83	7.750	6.05	10.83	2.38
1.667	2.81	4.750	7.34	7.833	6.05	10.92	2.38
1.750	2.81	4.833	7.34	7.917	6.05	11.00	2.38
1.833	2.81	4.917	7.34	8.000	6.05	11.08	2.38
1.917	2.81	5.000	7.34	8.083	6.05	11.17	2.38
2.000	2.81	5.083	7.34	8.167	6.05	11.25	2.16
2.083	2.81	5.167	7.34	8.250	4.75	11.33	2.16
2.167	2.81	5.250	11.66	8.333	4.75	11.42	2.16
2.250	3.67	5.333	11.66	8.417	4.75	11.50	2.16
2.333	3.67	5.417	11.66	8.500	4.75	11.58	2.16
2.417	3.67	5.500	11.66	8.583	4.75	11.67	2.16
2.500	3.67	5.583	11.66	8.667	4.75	11.75	2.16
2.583	3.67	5.667	11.66	8.750	4.97	11.83	2.16
2.667	3.67	5.750	92.45	8.833	4.97	11.92	2.16
2.750	3.24	5.833	92.45	8.917	4.97	12.00	2.16
2.833	3.24	5.917	92.45	9.000	4.97	12.08	2.16
2.917	3.24	6.000	92.45	9.083	4.97	12.17	2.16
3.000	3.24	6.083	92.45	9.167	4.97		
3.083	3.24	6.167	92.45	9.250	3.24		

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 57.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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-----
| ADD HYD ( 0030) |
| 1 + 2 = 3 |
-----

```

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0190):	2.29	0.345	6.17	68.66
+ ID2= 2 (0191):	147.11	3.419	8.25	40.73
=====				
ID = 3 (0030):	149.40	3.445	8.25	41.16

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| CALIB |
| NASHYD ( 0192) |
| ID= 1 DT= 5.0 min |
-----

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Area (ha)=	276.67	Curve Number (CN)=	67.0
Ia (mm)=	9.40	# of Linear Res.(N)=	3.00
U.H. Tp(hrs)=	4.85		

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

Unit Hyd Qpeak (cms)= 2.179

PEAK FLOW (cms)= 3.278 (i)
 TIME TO PEAK (hrs)= 12.000
 RUNOFF VOLUME (mm)= 43.459
 TOTAL RAINFALL (mm)= 108.000
 RUNOFF COEFFICIENT = 0.402

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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-----
---- TRANSFORMED HYETOGRAPH ----

```

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	3.24	6.250	23.54	9.33	3.24
0.167	0.00	3.250	4.32	6.333	23.54	9.42	3.24
0.250	3.24	3.333	4.32	6.417	23.54	9.50	3.24
0.333	3.24	3.417	4.32	6.500	23.54	9.58	3.24
0.417	3.24	3.500	4.32	6.583	23.54	9.67	3.24
0.500	3.24	3.583	4.32	6.667	23.54	9.75	2.59
0.583	3.24	3.667	4.32	6.750	10.37	9.83	2.59
0.667	3.24	3.750	4.32	6.833	10.37	9.92	2.59
0.750	1.51	3.833	4.32	6.917	10.37	10.00	2.59
0.833	1.51	3.917	4.32	7.000	10.37	10.08	2.59
0.917	1.51	4.000	4.32	7.083	10.37	10.17	2.59
1.000	1.51	4.083	4.32	7.167	10.37	10.25	3.67
1.083	1.51	4.167	4.32	7.250	6.91	10.33	3.67
1.167	1.51	4.250	5.83	7.333	6.91	10.42	3.67
1.250	2.81	4.333	5.83	7.417	6.91	10.50	3.67
1.333	2.81	4.417	5.83	7.500	6.91	10.58	3.67

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-----
| ADD HYD ( 0061) |
| 1 + 2 = 3 |
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	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0192):	276.67	3.278	12.00	43.46
+ ID2= 2 (0030):	149.40	3.445	8.25	41.16
=====				
ID = 3 (0061):	426.07	5.436	9.17	42.65

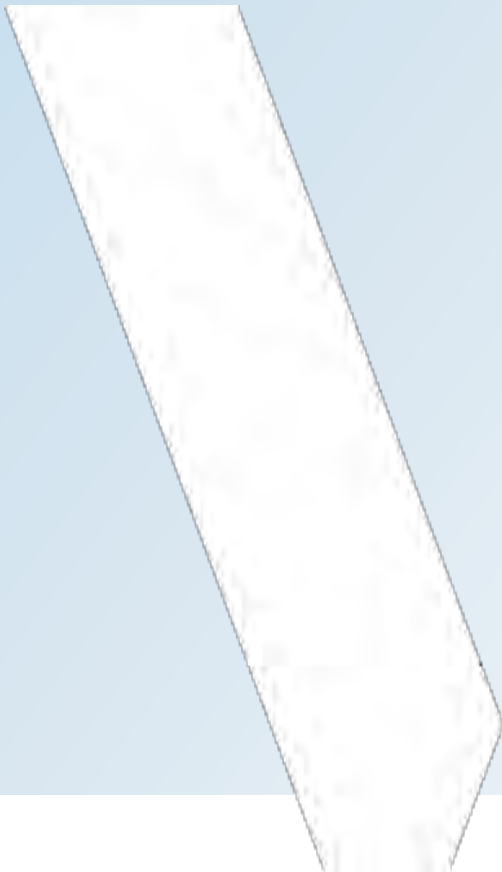
NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

FINISH

APPENDIX

C

Proposed Hydrologic Analysis



Summary of Proposed Conditions Hydrologic Modelling Parameters

HIGHWAY 401 Colborne to Brighton

Sub-Catchment ID	IUH Class	Drainage Area (ha)	Imperviousness (%)					SCS Curve Number	Initial Abstraction (mm)		Manning's 'n'		Time to Peak (hours)	Number of Linear Reservoirs	Flow Length (m)		Slope (%)	
			Direct	+	Indirect	=	Total		Pervious	Impervious	Pervious	Impervious			Pervious	Impervious	Pervious	Impervious
100	Standard	0.91	62	+	0	=	62.0	67	5.0	2.0	0.36	0.013	n/a	n/a	40	77.68	2.0	1.0
101	Nash	7.90	11	+	0	=	11.0	62	16.6	n/a	n/a	n/a	0.34	3.0	n/a	n/a	n/a	n/a
110	Standard	1.01	39	+	0	=	39.0	55	5.0	2.0	0.35	0.013	n/a	n/a	40	81.96	2.0	1.0
111	Nash	5.27	8	+	0	=	8.0	55	22.6	n/a	n/a	n/a	0.39	3.0	n/a	n/a	n/a	n/a
120	Standard	0.82	40	+	0	=	40.0	55	5.0	2.0	0.35	0.013	n/a	n/a	40	73.80	2.0	1.0
121	Nash	2.40	8	+	0	=	8.0	54	23.5	n/a	n/a	n/a	0.50	3.0	n/a	n/a	n/a	n/a
130	Standard	1.57	42	+	0	=	42.0	55	5.0	2.0	0.35	0.013	n/a	n/a	40	102.35	2.0	1.0
131	Nash	10.63	8	+	0	=	8.0	55	22.6	n/a	n/a	n/a	0.65	3.0	n/a	n/a	n/a	n/a
140	Standard	0.76	38	+	0	=	38.0	55	5.0	2.0	0.35	0.013	n/a	n/a	40	71.35	2.0	1.0
141	Nash	7.22	7	+	0	=	7.0	64	15.2	n/a	n/a	n/a	0.44	3.0	n/a	n/a	n/a	n/a
150	Standard	1.35	39	+	0	=	39.0	55	5.0	2.0	0.35	0.013	n/a	n/a	40	94.72	2.0	1.0
151	Nash	14.07	10	+	0	=	10.0	66	14.2	n/a	n/a	n/a	0.17	3.0	n/a	n/a	n/a	n/a
160	Standard	3.05	39	+	0	=	39.0	55	5.0	2.0	0.35	0.013	n/a	n/a	40	142.49	2.0	1.0
161	Nash	131.28	5	+	0	=	5.0	75	8.6	n/a	n/a	n/a	0.94	3.0	n/a	n/a	n/a	n/a
170	Standard	3.33	42	+	0	=	42.0	55	5.0	2.0	0.35	0.013	n/a	n/a	40	149.09	2.0	1.0
171	Nash	32.39	10	+	0	=	10.0	60	18.2	n/a	n/a	n/a	0.91	3.0	n/a	n/a	n/a	n/a
180	Nash	2.46	10	+	0	=	10.0	56	22.2	n/a	n/a	n/a	1.36	3.0	n/a	n/a	n/a	n/a
181	Standard	1.21	40	+	0	=	40.0	55	5.0	2.0	0.35	0.013	n/a	n/a	40	89.96	2.0	1.0
190	Standard	1.71	72	+	0	=	72.0	61	5.0	2.0	0.35	0.013	n/a	n/a	40	106.86	2.0	1.0
191	Nash	146.82	11	+	1	=	11.6	67	13.4	n/a	n/a	n/a	2.20	3.0	n/a	n/a	n/a	n/a
200	Standard	5.18	39	+	0	=	39.0	72	5.0	2.0	0.35	0.013	n/a	n/a	40	185.76	2.0	1.0
201	Nash	30.53	3	+	4	=	7.2	71	10.7	n/a	n/a	n/a	0.57	3.0	n/a	n/a	n/a	n/a
210	Standard	0.57	39	+	0	=	39.0	69	5.0	2.0	0.35	0.013	n/a	n/a	40	61.73	2.0	1.0
211	Nash	2.03	5	+	5	=	10.4	72	10.4	n/a	n/a	n/a	0.15	3.0	n/a	n/a	n/a	n/a
220	Standard	0.88	100	+	0	=	100	98	5.0	2.0	0.35	0.013	n/a	n/a	40	76.42	2.0	1.0
221	Nash	14.91	5	+	0	=	5	58	19.1	n/a	n/a	n/a	0.40	3.0	n/a	n/a	n/a	n/a
230	Standard	3.07	58	+	0	=	58	62	5.0	2.0	0.35	0.013	n/a	n/a	40	143.00	2.0	1.0
231	Nash	33.58	4	+	0	=	4	59	18.5	n/a	n/a	n/a	0.29	3.0	n/a	n/a	n/a	n/a
240	Standard	0.88	44	+	0	=	44	55	5.0	2.0	0.35	0.013	n/a	n/a	40	76.58	2.0	1.0
241	Nash	11.24	10	+	0	=	10	56	22.2	n/a	n/a	n/a	0.40	3.0	n/a	n/a	n/a	n/a
250	Standard	0.93	41	+	0	=	41	64	5.0	2.0	0.35	0.013	n/a	n/a	40	78.76	2.0	1.0
251	Nash	16.61	2	+	0	=	2	51	24.9	n/a	n/a	n/a	0.50	3.0	n/a	n/a	n/a	n/a
260	Standard	3.40	40	+	0	=	40	76	5.0	2.0	0.35	0.013	n/a	n/a	40	150.51	2.0	1.0
261	Nash	35.85	4	+	0	=	4	59	18.5	n/a	n/a	n/a	1.23	3.0	n/a	n/a	n/a	n/a
270	Standard	3.95	55	+	0	=	55	57	5.0	2.0	0.35	0.013	n/a	n/a	40	162.31	2.0	1.0
271	Nash	26.76	11	+	0	=	11	60	18.7	n/a	n/a	n/a	0.22	3.0	n/a	n/a	n/a	n/a
280	Standard	0.90	100	+	0	=	100	98	5.0	2.0	0.35	0.013	n/a	n/a	40	77.64	2.0	1.0
281	Nash	6.71	8	+	0	=	8	68	12.7	n/a	n/a	n/a	0.40	3.0	n/a	n/a	n/a	n/a



Summary of Proposed Conditions Hydrologic Modelling Parameters

HIGHWAY 401 Colborne to Brighton

Sub-Catchment ID	IUH Class	Drainage Area (ha)	Imperviousness (%)					SCS Curve Number	Initial Abstraction (mm)		Manning's 'n'		Time to Peak (hours)	Number of Linear Reservoirs	Flow Length (m)		Slope (%)	
			Direct	+	Indirect	=	Total		Pervious	Impervious	Pervious	Impervious			Pervious	Impervious	Pervious	Impervious
192	Nash	277.13	28	+	2	=	30.2	66	9.7	n/a	n/a	n/a	2.41	3.0	n/a	n/a	n/a	n/a
193	Nash	48.62	19	+	1	=	20.0	66	15.1	n/a	n/a	n/a	1.78	3.0	n/a	n/a	n/a	n/a
194	Nash	160.45	3	+	0	=	3.4	74	9.1	n/a	n/a	n/a	2.14	3.0	n/a	n/a	n/a	n/a
195	Nash	496.70	2	+	0	=	2.2	74	9.2	n/a	n/a	n/a	3.71	3.0	n/a	n/a	n/a	n/a
196	Nash	65.48	1	+	1	=	2.4	72	10.2	n/a	n/a	n/a	0.68	3.0	n/a	n/a	n/a	n/a

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V V I SSSSS U U A L (v 6.2.2006)
V V I SS U U A A L
V V I SS U U A A A A L
V V I SS U U A A L
V V I SSSSS UUUUU A A LLLLL
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000 TTTT TTTT H H Y Y M M 000 TM
O O T T H H Y Y MM MM O O
O O T T H H Y M M O O
000 T T H H Y M M 000
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***** D E T A I L E D O U T P U T *****

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.2\VO2\voin.dat

Output filename:
 C:\Users\caeh076182\AppData\Local\Civica\XH5\18e334db-11e6-4c2c-9e9b-68ade393f174\476d309e-5432-4510-aeb2-ba7ef5d0b997\s
 Summary filename:
 C:\Users\caeh076182\AppData\Local\Civica\XH5\18e334db-11e6-4c2c-9e9b-68ade393f174\476d309e-5432-4510-aeb2-ba7ef5d0b997\s

DATE: 12-14-2022

TIME: 03:30:10

USER:

COMMENTS: _____

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*****
** SIMULATION : 12SCS002 **
*****
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| READ STORM | Filename: C:\Users\caeh076182\AppData
|             | ata\Local\Temp\
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| 396a18b2-a47a-4edb-9128-76c3e2947350\5b85e6a2
| Ptotal= 54.00 mm | Comments: 12SCS002
```

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.17	0.00	3.33	2.16	6.50	11.77	9.67	1.62
0.33	1.62	3.50	2.16	6.67	11.77	9.83	1.30
0.50	1.62	3.67	2.16	6.83	5.18	10.00	1.30
0.67	1.62	3.83	2.16	7.00	5.18	10.17	1.30
0.83	0.76	4.00	2.16	7.17	5.18	10.33	1.84
1.00	0.76	4.17	2.16	7.33	3.46	10.50	1.84
1.17	0.76	4.33	2.92	7.50	3.46	10.67	1.84
1.33	1.40	4.50	2.92	7.67	3.46	10.83	1.19
1.50	1.40	4.67	2.92	7.83	3.02	11.00	1.19
1.67	1.40	4.83	3.67	8.00	3.02	11.17	1.19
1.83	1.40	5.00	3.67	8.17	3.02	11.33	1.08
2.00	1.40	5.17	3.67	8.33	2.38	11.50	1.08
2.17	1.40	5.33	5.83	8.50	2.38	11.67	1.08
2.33	1.84	5.50	5.83	8.67	2.38	11.83	1.08
2.50	1.84	5.67	5.83	8.83	2.48	12.00	1.08
2.67	1.84	5.83	46.22	9.00	2.48	12.17	1.08
2.83	1.62	6.00	46.22	9.17	2.48		
3.00	1.62	6.17	46.22	9.33	1.62		
3.17	1.62	6.33	11.77	9.50	1.62		

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-----
| CALIB |
| NASHYD ( 0241) | Area (ha)= 11.24 Curve Number (CN)= 56.0
| ID= 1 DT= 5.0 min | Ia (mm)= 22.20 # of Linear Res.(N)= 3.00
|-----| U.H. Tp(hrs)= 0.40
```

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	1.62	6.250	11.77	9.33	1.62
0.167	0.00	3.250	2.16	6.333	11.77	9.42	1.62
0.250	1.62	3.333	2.16	6.417	11.77	9.50	1.62
0.333	1.62	3.417	2.16	6.500	11.77	9.58	1.62
0.417	1.62	3.500	2.16	6.583	11.77	9.67	1.62
0.500	1.62	3.583	2.16	6.667	11.77	9.75	1.30
0.583	1.62	3.667	2.16	6.750	5.18	9.83	1.30
0.667	1.62	3.750	2.16	6.833	5.18	9.92	1.30
0.750	0.76	3.833	2.16	6.917	5.18	10.00	1.30
0.833	0.76	3.917	2.16	7.000	5.18	10.08	1.30
0.917	0.76	4.000	2.16	7.083	5.18	10.17	1.30

1.000	0.76	4.083	2.16	7.167	5.18	10.25	1.84
1.083	0.76	4.167	2.16	7.250	3.46	10.33	1.84
1.167	0.76	4.250	2.92	7.333	3.46	10.42	1.84
1.250	1.40	4.333	2.92	7.417	3.46	10.50	1.84
1.333	1.40	4.417	2.92	7.500	3.46	10.58	1.84
1.417	1.40	4.500	2.92	7.583	3.46	10.67	1.84
1.500	1.40	4.583	2.92	7.667	3.46	10.75	1.19
1.583	1.40	4.667	2.92	7.750	3.02	10.83	1.19
1.667	1.40	4.750	3.67	7.833	3.02	10.92	1.19
1.750	1.40	4.833	3.67	7.917	3.02	11.00	1.19
1.833	1.40	4.917	3.67	8.000	3.02	11.08	1.19
1.917	1.40	5.000	3.67	8.083	3.02	11.17	1.19
2.000	1.40	5.083	3.67	8.167	3.02	11.25	1.08
2.083	1.40	5.167	3.67	8.250	2.38	11.33	1.08
2.167	1.40	5.250	5.83	8.333	2.38	11.42	1.08
2.250	1.84	5.333	5.83	8.417	2.38	11.50	1.08
2.333	1.84	5.417	5.83	8.500	2.38	11.58	1.08
2.417	1.84	5.500	5.83	8.583	2.38	11.67	1.08
2.500	1.84	5.583	5.83	8.667	2.38	11.75	1.08
2.583	1.84	5.667	5.83	8.750	2.48	11.83	1.08
2.667	1.84	5.750	46.22	8.833	2.48	11.92	1.08
2.750	1.62	5.833	46.22	8.917	2.48	12.00	1.08
2.833	1.62	5.917	46.22	9.000	2.48	12.08	1.08
2.917	1.62	6.000	46.22	9.083	2.48	12.17	1.08
3.000	1.62	6.083	46.22	9.167	2.48		
3.083	1.62	6.167	46.22	9.250	1.62		

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	1.62	6.250	11.77	9.33	1.62
0.167	0.00	3.250	2.16	6.333	11.77	9.42	1.62
0.250	1.62	3.333	2.16	6.417	11.77	9.50	1.62
0.333	1.62	3.417	2.16	6.500	11.77	9.58	1.62
0.417	1.62	3.500	2.16	6.583	11.77	9.67	1.62
0.500	1.62	3.583	2.16	6.667	11.77	9.75	1.30
0.583	1.62	3.667	2.16	6.750	5.18	9.83	1.30
0.667	1.62	3.750	2.16	6.833	5.18	9.92	1.30
0.750	0.76	3.833	2.16	6.917	5.18	10.00	1.30
0.833	0.76	3.917	2.16	7.000	5.18	10.08	1.30
0.917	0.76	4.000	2.16	7.083	5.18	10.17	1.30
1.000	0.76	4.083	2.16	7.167	5.18	10.25	1.84
1.083	0.76	4.167	2.16	7.250	3.46	10.33	1.84
1.167	0.76	4.250	2.92	7.333	3.46	10.42	1.84
1.250	1.40	4.333	2.92	7.417	3.46	10.50	1.84
1.333	1.40	4.417	2.92	7.500	3.46	10.58	1.84
1.417	1.40	4.500	2.92	7.583	3.46	10.67	1.84
1.500	1.40	4.583	2.92	7.667	3.46	10.75	1.19
1.583	1.40	4.667	2.92	7.750	3.02	10.83	1.19
1.667	1.40	4.750	3.67	7.833	3.02	10.92	1.19
1.750	1.40	4.833	3.67	7.917	3.02	11.00	1.19
1.833	1.40	4.917	3.67	8.000	3.02	11.08	1.19
1.917	1.40	5.000	3.67	8.083	3.02	11.17	1.19
2.000	1.40	5.083	3.67	8.167	3.02	11.25	1.08
2.083	1.40	5.167	3.67	8.250	2.38	11.33	1.08
2.167	1.40	5.250	5.83	8.333	2.38	11.42	1.08
2.250	1.84	5.333	5.83	8.417	2.38	11.50	1.08
2.333	1.84	5.417	5.83	8.500	2.38	11.58	1.08
2.417	1.84	5.500	5.83	8.583	2.38	11.67	1.08
2.500	1.84	5.583	5.83	8.667	2.38	11.75	1.08
2.583	1.84	5.667	5.83	8.750	2.48	11.83	1.08
2.667	1.84	5.750	46.22	8.833	2.48	11.92	1.08
2.750	1.62	5.833	46.22	8.917	2.48	12.00	1.08
2.833	1.62	5.917	46.22	9.000	2.48	12.08	1.08
2.917	1.62	6.000	46.22	9.083	2.48	12.17	1.08
3.000	1.62	6.083	46.22	9.167	2.48		
3.083	1.62	6.167	46.22	9.250	1.62		

Unit Hyd Qpeak (cms)= 1.073

PEAK FLOW (cms)= 0.055 (i)
 TIME TO PEAK (hrs)= 6.750
 RUNOFF VOLUME (mm)= 4.370
 TOTAL RAINFALL (mm)= 54.000
 RUNOFF COEFFICIENT = 0.081

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	Area (ha)= 0.88
STANDHYD (0240)	Total Imp(%)= 44.00 Dir. Conn.(%)= 44.00
ID= 1 DT= 5.0 min	

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.39	0.49
Dep. Storage (mm)=	1.00	5.00
Average Slope (%)=	1.00	2.00
Length (m)=	76.58	40.00
Mannings n =	0.013	0.350

Max.Eff.Inten.(mm/hr)= 46.22 8.08
 over (min) 5.00 30.00
 Storage Coeff. (min)= 2.96 (ii) 26.58 (ii)
 Unit Hyd. Tpeak (min)= 5.00 30.00
 Unit Hyd. peak (cms)= 0.28 0.04

TOTALS

PEAK FLOW (cms)= 0.05 0.01 0.054 (iii)
 TIME TO PEAK (hrs)= 6.17 6.50 6.17
 RUNOFF VOLUME (mm)= 53.00 9.35 28.54
 TOTAL RAINFALL (mm)= 54.00 54.00 54.00
 RUNOFF COEFFICIENT = 0.98 0.17 0.53

1.000	0.76	4.083	2.16	7.167	5.18	10.25	1.84
1.083	0.76	4.167	2.16	7.250	3.46	10.33	1.84
1.167	0.76	4.250	2.92	7.333	3.46	10.42	1.84
1.250	1.40	4.333	2.92	7.417	3.46	10.50	1.84
1.333	1.40	4.417	2.92	7.500	3.46	10.58	1.84
1.417	1.40	4.500	2.92	7.583	3.46	10.67	1.84
1.500	1.40	4.583	2.92	7.667	3.46	10.75	1.19
1.583	1.40	4.667	2.92	7.750	3.02	10.83	1.19
1.667	1.40	4.750	3.67	7.833	3.02	10.92	1.19
1.750	1.40	4.833	3.67	7.917	3.02	11.00	1.19
1.833	1.40	4.917	3.67	8.000	3.02	11.08	1.19
1.917	1.40	5.000	3.67	8.083	3.02	11.17	1.19
2.000	1.40	5.083	3.67	8.167	3.02	11.25	1.08
2.083	1.40	5.167	3.67	8.250	2.38	11.33	1.08
2.167	1.40	5.250	5.83	8.333	2.38	11.42	1.08
2.250	1.84	5.333	5.83	8.417	2.38	11.50	1.08
2.333	1.84	5.417	5.83	8.500	2.38	11.58	1.08
2.417	1.84	5.500	5.83	8.583	2.38	11.67	1.08
2.500	1.84	5.583	5.83	8.667	2.38	11.75	1.08
2.583	1.84	5.667	5.83	8.750	2.48	11.83	1.08
2.667	1.84	5.750	46.22	8.833	2.48	11.92	1.08
2.750	1.62	5.833	46.22	8.917	2.48	12.00	1.08
2.833	1.62	5.917	46.22	9.000	2.48	12.08	1.08
2.917	1.62	6.000	46.22	9.083	2.48	12.17	1.08
3.000	1.62	6.083	46.22	9.167	2.48		
3.083	1.62	6.167	46.22	9.250	1.62		

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
 CN* = 55.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
 THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0045)	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
1 + 2 = 3				
ID1= 1 (0240):	0.88	0.054	6.17	28.54
+ ID2= 2 (0241):	11.24	0.055	6.75	4.37
ID = 3 (0045):	12.12	0.073	6.67	6.12

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB	Area (ha)	Curve Number (CN)
NASHYD (0281)	6.71	68.0
ID= 1 DT= 5.0 min	Ia (mm)= 12.70	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)= 0.40	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----							
TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	1.62	6.250	11.77	9.33	1.62
0.167	0.00	3.250	2.16	6.333	11.77	9.42	1.62
0.250	1.62	3.333	2.16	6.417	11.77	9.50	1.62
0.333	1.62	3.417	2.16	6.500	11.77	9.58	1.62
0.417	1.62	3.500	2.16	6.583	11.77	9.67	1.62
0.500	1.62	3.583	2.16	6.667	11.77	9.75	1.30
0.583	1.62	3.667	2.16	6.750	5.18	9.83	1.30
0.667	1.62	3.750	2.16	6.833	5.18	9.92	1.30
0.750	0.76	3.833	2.16	6.917	5.18	10.00	1.30
0.833	0.76	3.917	2.16	7.000	5.18	10.08	1.30
0.917	0.76	4.000	2.16	7.083	5.18	10.17	1.30

Unit Hyd Qpeak (cms)= 0.641

PEAK FLOW (cms)= 0.102 (i)
 TIME TO PEAK (hrs)= 6.500
 RUNOFF VOLUME (mm)= 10.604
 TOTAL RAINFALL (mm)= 54.000
 RUNOFF COEFFICIENT = 0.196

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	Area (ha)	Total Imp(%)	Dir. Conn.(%)
STANDHYD (0280)	0.90	99.00	99.00
ID= 1 DT= 5.0 min			

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)	0.89	0.01
Dep. Storage (mm)	1.00	5.00
Average Slope (%)	1.00	2.00
Length (m)	77.64	40.00
Mannings n	0.013	0.350

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	1.62	6.250	11.77	9.33	1.62
0.167	0.00	3.250	2.16	6.333	11.77	9.42	1.62
0.250	1.62	3.333	2.16	6.417	11.77	9.50	1.62
0.333	1.62	3.417	2.16	6.500	11.77	9.58	1.62
0.417	1.62	3.500	2.16	6.583	11.77	9.67	1.62
0.500	1.62	3.583	2.16	6.667	11.77	9.75	1.30
0.583	1.62	3.667	2.16	6.750	5.18	9.83	1.30
0.667	1.62	3.750	2.16	6.833	5.18	9.92	1.30
0.750	0.76	3.833	2.16	6.917	5.18	10.00	1.30
0.833	0.76	3.917	2.16	7.000	5.18	10.08	1.30
0.917	0.76	4.000	2.16	7.083	5.18	10.17	1.30
1.000	0.76	4.083	2.16	7.167	5.18	10.25	1.84
1.083	0.76	4.167	2.16	7.250	3.46	10.33	1.84
1.167	0.76	4.250	2.92	7.333	3.46	10.42	1.84
1.250	1.40	4.333	2.92	7.417	3.46	10.50	1.84
1.333	1.40	4.417	2.92	7.500	3.46	10.58	1.84
1.417	1.40	4.500	2.92	7.583	3.46	10.67	1.84
1.500	1.40	4.583	2.92	7.667	3.46	10.75	1.19
1.583	1.40	4.667	2.92	7.750	3.02	10.83	1.19
1.667	1.40	4.750	3.67	7.833	3.02	10.92	1.19
1.750	1.40	4.833	3.67	7.917	3.02	11.00	1.19
1.833	1.40	4.917	3.67	8.000	3.02	11.08	1.19
1.917	1.40	5.000	3.67	8.083	3.02	11.17	1.19
2.000	1.40	5.083	3.67	8.167	3.02	11.25	1.08
2.083	1.40	5.167	3.67	8.250	2.38	11.33	1.08
2.167	1.40	5.250	5.83	8.333	2.38	11.42	1.08
2.250	1.84	5.333	5.83	8.417	2.38	11.50	1.08
2.333	1.84	5.417	5.83	8.500	2.38	11.58	1.08
2.417	1.84	5.500	5.83	8.583	2.38	11.67	1.08
2.500	1.84	5.583	5.83	8.667	2.38	11.75	1.08
2.583	1.84	5.667	5.83	8.750	2.48	11.83	1.08
2.667	1.84	5.750	46.22	8.833	2.48	11.92	1.08
2.750	1.62	5.833	46.22	8.917	2.48	12.00	1.08
2.833	1.62	5.917	46.22	9.000	2.48	12.08	1.08
2.917	1.62	6.000	46.22	9.083	2.48	12.17	1.08
3.000	1.62	6.083	46.22	9.167	2.48		
3.083	1.62	6.167	46.22	9.250	1.62		

Max.Eff.Inten.(mm/hr)= 46.22 45.00
 over (min) 5.00 5.00
 Storage Coeff. (min)= 2.99 (ii) 4.86 (ii)
 Unit Hyd. Tpeak (min)= 5.00 5.00
 Unit Hyd. peak (cms)= 0.28 0.22

TOTALS

PEAK FLOW (cms)= 0.11 0.00 0.116 (iii)
 TIME TO PEAK (hrs)= 6.17 6.17 6.17
 RUNOFF VOLUME (mm)= 53.00 44.31 52.91
 TOTAL RAINFALL (mm)= 54.00 54.00 54.00
 RUNOFF COEFFICIENT = 0.98 0.82 0.98

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
 CN* = 98.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
 THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0057)	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
1 + 2 = 3				
ID1= 1 (0280):	0.90	0.116	6.17	52.91
+ ID2= 2 (0281):	6.71	0.102	6.50	10.60
=====				
ID = 3 (0057):	7.61	0.175	6.17	15.61

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB	Area (ha)	Curve Number (CN)
NASHYD (0131)	10.63	55.0
ID= 1 DT= 5.0 min	22.60	# of Linear Res.(N)= 3.00

U.H. Tp(hrs)=	0.65	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	1.62	6.250	11.77	9.33	1.62
0.167	0.00	3.250	2.16	6.333	11.77	9.42	1.62
0.250	1.62	3.333	2.16	6.417	11.77	9.50	1.62
0.333	1.62	3.417	2.16	6.500	11.77	9.58	1.62
0.417	1.62	3.500	2.16	6.583	11.77	9.67	1.62
0.500	1.62	3.583	2.16	6.667	11.77	9.75	1.30
0.583	1.62	3.667	2.16	6.750	5.18	9.83	1.30
0.667	1.62	3.750	2.16	6.833	5.18	9.92	1.30
0.750	0.76	3.833	2.16	6.917	5.18	10.00	1.30
0.833	0.76	3.917	2.16	7.000	5.18	10.08	1.30
0.917	0.76	4.000	2.16	7.083	5.18	10.17	1.30

1.000	0.76	4.083	2.16	7.167	5.18	10.25	1.84
1.083	0.76	4.167	2.16	7.250	3.46	10.33	1.84
1.167	0.76	4.250	2.92	7.333	3.46	10.42	1.84
1.250	1.40	4.333	2.92	7.417	3.46	10.50	1.84
1.333	1.40	4.417	2.92	7.500	3.46	10.58	1.84
1.417	1.40	4.500	2.92	7.583	3.46	10.67	1.84
1.500	1.40	4.583	2.92	7.667	3.46	10.75	1.19
1.583	1.40	4.667	2.92	7.750	3.02	10.83	1.19
1.667	1.40	4.750	3.67	7.833	3.02	10.92	1.19
1.750	1.40	4.833	3.67	7.917	3.02	11.00	1.19
1.833	1.40	4.917	3.67	8.000	3.02	11.08	1.19
1.917	1.40	5.000	3.67	8.083	3.02	11.17	1.19
2.000	1.40	5.083	3.67	8.167	3.02	11.25	1.08
2.083	1.40	5.167	3.67	8.250	2.38	11.33	1.08
2.167	1.40	5.250	5.83	8.333	2.38	11.42	1.08
2.250	1.84	5.333	5.83	8.417	2.38	11.50	1.08
2.333	1.84	5.417	5.83	8.500	2.38	11.58	1.08
2.417	1.84	5.500	5.83	8.583	2.38	11.67	1.08
2.500	1.84	5.583	5.83	8.667	2.38	11.75	1.08
2.583	1.84	5.667	5.83	8.750	2.48	11.83	1.08
2.667	1.84	5.750	46.22	8.833	2.48	11.92	1.08
2.750	1.62	5.833	46.22	8.917	2.48	12.00	1.08
2.833	1.62	5.917	46.22	9.000	2.48	12.08	1.08
2.917	1.62	6.000	46.22	9.083	2.48	12.17	1.08
3.000	1.62	6.083	46.22	9.167	2.48		
3.083	1.62	6.167	46.22	9.250	1.62		

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	1.62	6.250	11.77	9.33	1.62
0.167	0.00	3.250	2.16	6.333	11.77	9.42	1.62
0.250	1.62	3.333	2.16	6.417	11.77	9.50	1.62
0.333	1.62	3.417	2.16	6.500	11.77	9.58	1.62
0.417	1.62	3.500	2.16	6.583	11.77	9.67	1.62
0.500	1.62	3.583	2.16	6.667	11.77	9.75	1.30
0.583	1.62	3.667	2.16	6.750	5.18	9.83	1.30
0.667	1.62	3.750	2.16	6.833	5.18	9.92	1.30
0.750	0.76	3.833	2.16	6.917	5.18	10.00	1.30
0.833	0.76	3.917	2.16	7.000	5.18	10.08	1.30
0.917	0.76	4.000	2.16	7.083	5.18	10.17	1.30
1.000	0.76	4.083	2.16	7.167	5.18	10.25	1.84
1.083	0.76	4.167	2.16	7.250	3.46	10.33	1.84
1.167	0.76	4.250	2.92	7.333	3.46	10.42	1.84
1.250	1.40	4.333	2.92	7.417	3.46	10.50	1.84
1.333	1.40	4.417	2.92	7.500	3.46	10.58	1.84
1.417	1.40	4.500	2.92	7.583	3.46	10.67	1.84
1.500	1.40	4.583	2.92	7.667	3.46	10.75	1.19
1.583	1.40	4.667	2.92	7.750	3.02	10.83	1.19
1.667	1.40	4.750	3.67	7.833	3.02	10.92	1.19
1.750	1.40	4.833	3.67	7.917	3.02	11.00	1.19
1.833	1.40	4.917	3.67	8.000	3.02	11.08	1.19
1.917	1.40	5.000	3.67	8.083	3.02	11.17	1.19
2.000	1.40	5.083	3.67	8.167	3.02	11.25	1.08
2.083	1.40	5.167	3.67	8.250	2.38	11.33	1.08
2.167	1.40	5.250	5.83	8.333	2.38	11.42	1.08
2.250	1.84	5.333	5.83	8.417	2.38	11.50	1.08
2.333	1.84	5.417	5.83	8.500	2.38	11.58	1.08
2.417	1.84	5.500	5.83	8.583	2.38	11.67	1.08
2.500	1.84	5.583	5.83	8.667	2.38	11.75	1.08
2.583	1.84	5.667	5.83	8.750	2.48	11.83	1.08
2.667	1.84	5.750	46.22	8.833	2.48	11.92	1.08
2.750	1.62	5.833	46.22	8.917	2.48	12.00	1.08
2.833	1.62	5.917	46.22	9.000	2.48	12.08	1.08
2.917	1.62	6.000	46.22	9.083	2.48	12.17	1.08
3.000	1.62	6.083	46.22	9.167	2.48		
3.083	1.62	6.167	46.22	9.250	1.62		

Unit Hyd Qpeak (cms)= 0.625

PEAK FLOW (cms)= 0.038 (i)
 TIME TO PEAK (hrs)= 7.083
 RUNOFF VOLUME (mm)= 4.121
 TOTAL RAINFALL (mm)= 54.000
 RUNOFF COEFFICIENT = 0.076

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	Area (ha)= 1.57
STANDHYD (0130)	Total Imp(%)= 42.00 Dir. Conn.(%)= 42.00
ID= 1 DT= 5.0 min	

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.66	0.91
Dep. Storage (mm)=	1.00	5.00
Average Slope (%)=	1.00	2.00
Length (m)=	102.35	40.00
Mannings n =	0.013	0.350

Max.Eff.Inten.(mm/hr)=	46.22	8.08
over (min)	5.00	30.00
Storage Coeff. (min)=	3.53 (ii)	27.15 (ii)
Unit Hyd. Tpeak (min)=	5.00	30.00
Unit Hyd. peak (cms)=	0.26	0.04

TOTALS

PEAK FLOW (cms)= 0.08 0.01 0.092 (iii)
 TIME TO PEAK (hrs)= 6.17 6.50 6.17
 RUNOFF VOLUME (mm)= 53.00 9.35 27.67
 TOTAL RAINFALL (mm)= 54.00 54.00 54.00
 RUNOFF COEFFICIENT = 0.98 0.17 0.51

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
 CN* = 55.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
 THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0012)	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
1 + 2 = 3				
ID1= 1 (0130):	1.57	0.092	6.17	27.67
+ ID2= 2 (0131):	10.63	0.038	7.08	4.12
ID = 3 (0012):	12.20	0.096	6.17	7.15

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB	Area (ha)	Curve Number (CN)	# of Linear Res. (N)	U.H. Tp(hrs)
NASHYD (0180)	2.46	56.0	3.00	1.36
ID= 1 DT= 5.0 min	22.20			

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----							
TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	1.62	6.250	11.77	9.33	1.62
0.167	0.00	3.250	2.16	6.333	11.77	9.42	1.62
0.250	1.62	3.333	2.16	6.417	11.77	9.50	1.62
0.333	1.62	3.417	2.16	6.500	11.77	9.58	1.62
0.417	1.62	3.500	2.16	6.583	11.77	9.67	1.62
0.500	1.62	3.583	2.16	6.667	11.77	9.75	1.30
0.583	1.62	3.667	2.16	6.750	5.18	9.83	1.30
0.667	1.62	3.750	2.16	6.833	5.18	9.92	1.30
0.750	0.76	3.833	2.16	6.917	5.18	10.00	1.30
0.833	0.76	3.917	2.16	7.000	5.18	10.08	1.30
0.917	0.76	4.000	2.16	7.083	5.18	10.17	1.30

1.000	0.76	4.083	2.16	7.167	5.18	10.25	1.84
1.083	0.76	4.167	2.16	7.250	3.46	10.33	1.84
1.167	0.76	4.250	2.92	7.333	3.46	10.42	1.84
1.250	1.40	4.333	2.92	7.417	3.46	10.50	1.84
1.333	1.40	4.417	2.92	7.500	3.46	10.58	1.84
1.417	1.40	4.500	2.92	7.583	3.46	10.67	1.84
1.500	1.40	4.583	2.92	7.667	3.46	10.75	1.19
1.583	1.40	4.667	2.92	7.750	3.02	10.83	1.19
1.667	1.40	4.750	3.67	7.833	3.02	10.92	1.19
1.750	1.40	4.833	3.67	7.917	3.02	11.00	1.19
1.833	1.40	4.917	3.67	8.000	3.02	11.08	1.19
1.917	1.40	5.000	3.67	8.083	3.02	11.17	1.19
2.000	1.40	5.083	3.67	8.167	3.02	11.25	1.08
2.083	1.40	5.167	3.67	8.250	2.38	11.33	1.08
2.167	1.40	5.250	5.83	8.333	2.38	11.42	1.08
2.250	1.84	5.333	5.83	8.417	2.38	11.50	1.08
2.333	1.84	5.417	5.83	8.500	2.38	11.58	1.08
2.417	1.84	5.500	5.83	8.583	2.38	11.67	1.08
2.500	1.84	5.583	5.83	8.667	2.38	11.75	1.08
2.583	1.84	5.667	5.83	8.750	2.48	11.83	1.08
2.667	1.84	5.750	46.22	8.833	2.48	11.92	1.08
2.750	1.62	5.833	46.22	8.917	2.48	12.00	1.08
2.833	1.62	5.917	46.22	9.000	2.48	12.08	1.08
2.917	1.62	6.000	46.22	9.083	2.48	12.17	1.08
3.000	1.62	6.083	46.22	9.167	2.48		
3.083	1.62	6.167	46.22	9.250	1.62		

Unit Hyd Qpeak (cms)= 0.069

PEAK FLOW (cms)= 0.006 (i)
 TIME TO PEAK (hrs)= 8.167
 RUNOFF VOLUME (mm)= 4.369
 TOTAL RAINFALL (mm)= 54.000
 RUNOFF COEFFICIENT = 0.081

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	Area (ha)	Total Imp(%)	Dir. Conn.(%)
STANDHYD (0181)	1.21	40.00	40.00
ID= 1 DT= 5.0 min			

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)	0.48	0.73
Dep. Storage (mm)	1.00	5.00
Average Slope (%)	1.00	2.00
Length (m)	89.96	40.00
Mannings n	0.013	0.350

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	1.62	6.250	11.77	9.33	1.62
0.167	0.00	3.250	2.16	6.333	11.77	9.42	1.62
0.250	1.62	3.333	2.16	6.417	11.77	9.50	1.62
0.333	1.62	3.417	2.16	6.500	11.77	9.58	1.62
0.417	1.62	3.500	2.16	6.583	11.77	9.67	1.62
0.500	1.62	3.583	2.16	6.667	11.77	9.75	1.30
0.583	1.62	3.667	2.16	6.750	5.18	9.83	1.30
0.667	1.62	3.750	2.16	6.833	5.18	9.92	1.30
0.750	0.76	3.833	2.16	6.917	5.18	10.00	1.30
0.833	0.76	3.917	2.16	7.000	5.18	10.08	1.30
0.917	0.76	4.000	2.16	7.083	5.18	10.17	1.30
1.000	0.76	4.083	2.16	7.167	5.18	10.25	1.84
1.083	0.76	4.167	2.16	7.250	3.46	10.33	1.84
1.167	0.76	4.250	2.92	7.333	3.46	10.42	1.84
1.250	1.40	4.333	2.92	7.417	3.46	10.50	1.84
1.333	1.40	4.417	2.92	7.500	3.46	10.58	1.84
1.417	1.40	4.500	2.92	7.583	3.46	10.67	1.84
1.500	1.40	4.583	2.92	7.667	3.46	10.75	1.19
1.583	1.40	4.667	2.92	7.750	3.02	10.83	1.19
1.667	1.40	4.750	3.67	7.833	3.02	10.92	1.19
1.750	1.40	4.833	3.67	7.917	3.02	11.00	1.19
1.833	1.40	4.917	3.67	8.000	3.02	11.08	1.19
1.917	1.40	5.000	3.67	8.083	3.02	11.17	1.19
2.000	1.40	5.083	3.67	8.167	3.02	11.25	1.08
2.083	1.40	5.167	3.67	8.250	2.38	11.33	1.08
2.167	1.40	5.250	5.83	8.333	2.38	11.42	1.08
2.250	1.84	5.333	5.83	8.417	2.38	11.50	1.08
2.333	1.84	5.417	5.83	8.500	2.38	11.58	1.08
2.417	1.84	5.500	5.83	8.583	2.38	11.67	1.08
2.500	1.84	5.583	5.83	8.667	2.38	11.75	1.08
2.583	1.84	5.667	5.83	8.750	2.48	11.83	1.08
2.667	1.84	5.750	46.22	8.833	2.48	11.92	1.08
2.750	1.62	5.833	46.22	8.917	2.48	12.00	1.08
2.833	1.62	5.917	46.22	9.000	2.48	12.08	1.08
2.917	1.62	6.000	46.22	9.083	2.48	12.17	1.08
3.000	1.62	6.083	46.22	9.167	2.48		
3.083	1.62	6.167	46.22	9.250	1.62		

Max.Eff.Inten.(mm/hr)= 46.22 8.08
 over (min) 5.00 30.00
 Storage Coeff. (min)= 3.26 (ii) 26.88 (ii)
 Unit Hyd. Tpeak (min)= 5.00 30.00
 Unit Hyd. peak (cms)= 0.27 0.04

TOTALS

PEAK FLOW (cms)= 0.06 0.01 0.068 (iii)
 TIME TO PEAK (hrs)= 6.17 6.50 6.17
 RUNOFF VOLUME (mm)= 53.00 9.35 26.80
 TOTAL RAINFALL (mm)= 54.00 54.00 54.00
 RUNOFF COEFFICIENT = 0.98 0.17 0.50

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
 CN* = 55.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
 THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0027)	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
1 + 2 = 3				
ID1= 1 (0180):	2.46	0.006	8.17	4.37
+ ID2= 2 (0181):	1.21	0.068	6.17	26.80
=====				
ID = 3 (0027):	3.67	0.068	6.17	11.76

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB	Area (ha)	Curve Number (CN)
NASHYD (0171)	32.39	60.0
ID= 1 DT= 5.0 min	Ia (mm)= 18.20	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)= 0.91	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	1.62	6.250	11.77	9.33	1.62
0.167	0.00	3.250	2.16	6.333	11.77	9.42	1.62
0.250	1.62	3.333	2.16	6.417	11.77	9.50	1.62
0.333	1.62	3.417	2.16	6.500	11.77	9.58	1.62
0.417	1.62	3.500	2.16	6.583	11.77	9.67	1.62
0.500	1.62	3.583	2.16	6.667	11.77	9.75	1.30
0.583	1.62	3.667	2.16	6.750	5.18	9.83	1.30
0.667	1.62	3.750	2.16	6.833	5.18	9.92	1.30
0.750	0.76	3.833	2.16	6.917	5.18	10.00	1.30
0.833	0.76	3.917	2.16	7.000	5.18	10.08	1.30
0.917	0.76	4.000	2.16	7.083	5.18	10.17	1.30

1.000	0.76	4.083	2.16	7.167	5.18	10.25	1.84
1.083	0.76	4.167	2.16	7.250	3.46	10.33	1.84
1.167	0.76	4.250	2.92	7.333	3.46	10.42	1.84
1.250	1.40	4.333	2.92	7.417	3.46	10.50	1.84
1.333	1.40	4.417	2.92	7.500	3.46	10.58	1.84
1.417	1.40	4.500	2.92	7.583	3.46	10.67	1.84
1.500	1.40	4.583	2.92	7.667	3.46	10.75	1.19
1.583	1.40	4.667	2.92	7.750	3.02	10.83	1.19
1.667	1.40	4.750	3.67	7.833	3.02	10.92	1.19
1.750	1.40	4.833	3.67	7.917	3.02	11.00	1.19
1.833	1.40	4.917	3.67	8.000	3.02	11.08	1.19
1.917	1.40	5.000	3.67	8.083	3.02	11.17	1.19
2.000	1.40	5.083	3.67	8.167	3.02	11.25	1.08
2.083	1.40	5.167	3.67	8.250	2.38	11.33	1.08
2.167	1.40	5.250	5.83	8.333	2.38	11.42	1.08
2.250	1.84	5.333	5.83	8.417	2.38	11.50	1.08
2.333	1.84	5.417	5.83	8.500	2.38	11.58	1.08
2.417	1.84	5.500	5.83	8.583	2.38	11.67	1.08
2.500	1.84	5.583	5.83	8.667	2.38	11.75	1.08
2.583	1.84	5.667	5.83	8.750	2.48	11.83	1.08
2.667	1.84	5.750	46.22	8.833	2.48	11.92	1.08
2.750	1.62	5.833	46.22	8.917	2.48	12.00	1.08
2.833	1.62	5.917	46.22	9.000	2.48	12.08	1.08
2.917	1.62	6.000	46.22	9.083	2.48	12.17	1.08
3.000	1.62	6.083	46.22	9.167	2.48		
3.083	1.62	6.167	46.22	9.250	1.62		

Unit Hyd Qpeak (cms)= 1.359

PEAK FLOW (cms)= 0.160 (i)
 TIME TO PEAK (hrs)= 7.333
 RUNOFF VOLUME (mm)= 6.248
 TOTAL RAINFALL (mm)= 54.000
 RUNOFF COEFFICIENT = 0.116

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0062)				
1 + 2 = 3				
	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0171):	32.39	0.160	7.33	6.25
+ ID2= 2 (0027):	3.67	0.068	6.17	11.76

ID = 3 (0062):	36.06	0.174	7.33	6.81

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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| CALIB |
| STANDHYD ( 0170) | Area (ha)= 3.33
| ID= 1 DT= 5.0 min | Total Imp(%)= 42.00 Dir. Conn.(%)= 42.00
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	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	1.40	1.93
Dep. Storage (mm)=	1.00	5.00
Average Slope (%)=	1.00	2.00
Length (m)=	149.09	40.00
Mannings n =	0.013	0.350

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	1.62	6.250	11.77	9.33	1.62
0.167	0.00	3.250	2.16	6.333	11.77	9.42	1.62
0.250	1.62	3.333	2.16	6.417	11.77	9.50	1.62
0.333	1.62	3.417	2.16	6.500	11.77	9.58	1.62
0.417	1.62	3.500	2.16	6.583	11.77	9.67	1.62
0.500	1.62	3.583	2.16	6.667	11.77	9.75	1.30
0.583	1.62	3.667	2.16	6.750	5.18	9.83	1.30
0.667	1.62	3.750	2.16	6.833	5.18	9.92	1.30
0.750	0.76	3.833	2.16	6.917	5.18	10.00	1.30
0.833	0.76	3.917	2.16	7.000	5.18	10.08	1.30
0.917	0.76	4.000	2.16	7.083	5.18	10.17	1.30
1.000	0.76	4.083	2.16	7.167	5.18	10.25	1.84
1.083	0.76	4.167	2.16	7.250	3.46	10.33	1.84
1.167	0.76	4.250	2.92	7.333	3.46	10.42	1.84
1.250	1.40	4.333	2.92	7.417	3.46	10.50	1.84
1.333	1.40	4.417	2.92	7.500	3.46	10.58	1.84
1.417	1.40	4.500	2.92	7.583	3.46	10.67	1.84
1.500	1.40	4.583	2.92	7.667	3.46	10.75	1.19
1.583	1.40	4.667	2.92	7.750	3.02	10.83	1.19
1.667	1.40	4.750	3.67	7.833	3.02	10.92	1.19
1.750	1.40	4.833	3.67	7.917	3.02	11.00	1.19
1.833	1.40	4.917	3.67	8.000	3.02	11.08	1.19
1.917	1.40	5.000	3.67	8.083	3.02	11.17	1.19
2.000	1.40	5.083	3.67	8.167	3.02	11.25	1.08
2.083	1.40	5.167	3.67	8.250	2.38	11.33	1.08
2.167	1.40	5.250	5.83	8.333	2.38	11.42	1.08
2.250	1.84	5.333	5.83	8.417	2.38	11.50	1.08
2.333	1.84	5.417	5.83	8.500	2.38	11.58	1.08
2.417	1.84	5.500	5.83	8.583	2.38	11.67	1.08
2.500	1.84	5.583	5.83	8.667	2.38	11.75	1.08
2.583	1.84	5.667	5.83	8.750	2.48	11.83	1.08
2.667	1.84	5.750	46.22	8.833	2.48	11.92	1.08

2.750	1.62	5.833	46.22	8.917	2.48	12.00	1.08
2.833	1.62	5.917	46.22	9.000	2.48	12.08	1.08
2.917	1.62	6.000	46.22	9.083	2.48	12.17	1.08
3.000	1.62	6.083	46.22	9.167	2.48		
3.083	1.62	6.167	46.22	9.250	1.62		

Max.Eff.Inten.(mm/hr)= 46.22 8.08
over (min) 5.00 30.00
Storage Coeff. (min)= 4.42 (ii) 28.04 (ii)
Unit Hyd. Tpeak (min)= 5.00 30.00
Unit Hyd. peak (cms)= 0.23 0.04

TOTALS
PEAK FLOW (cms)= 0.18 0.03 0.194 (iii)
TIME TO PEAK (hrs)= 6.17 6.50 6.17
RUNOFF VOLUME (mm)= 53.00 9.35 27.68
TOTAL RAINFALL (mm)= 54.00 54.00 54.00
RUNOFF COEFFICIENT = 0.98 0.17 0.51

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 55.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0024)	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
1 + 2 = 3				
ID1= 1 (0170):	3.33	0.194	6.17	27.68
+ ID2= 2 (0062):	36.06	0.174	7.33	6.81
ID = 3 (0024):	39.39	0.279	6.17	8.57

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB
NASHYD (0191) | Area (ha)= 146.82 Curve Number (CN)= 67.0
ID= 1 DT= 5.0 min | Ia (mm)= 13.40 # of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 2.20

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
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hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	1.62	6.250	11.77	9.33	1.62
0.167	0.00	3.250	2.16	6.333	11.77	9.42	1.62
0.250	1.62	3.333	2.16	6.417	11.77	9.50	1.62
0.333	1.62	3.417	2.16	6.500	11.77	9.58	1.62
0.417	1.62	3.500	2.16	6.583	11.77	9.67	1.62
0.500	1.62	3.583	2.16	6.667	11.77	9.75	1.30
0.583	1.62	3.667	2.16	6.750	5.18	9.83	1.30
0.667	1.62	3.750	2.16	6.833	5.18	9.92	1.30
0.750	0.76	3.833	2.16	6.917	5.18	10.00	1.30
0.833	0.76	3.917	2.16	7.000	5.18	10.08	1.30
0.917	0.76	4.000	2.16	7.083	5.18	10.17	1.30
1.000	0.76	4.083	2.16	7.167	5.18	10.25	1.84
1.083	0.76	4.167	2.16	7.250	3.46	10.33	1.84
1.167	0.76	4.250	2.92	7.333	3.46	10.42	1.84
1.250	1.40	4.333	2.92	7.417	3.46	10.50	1.84
1.333	1.40	4.417	2.92	7.500	3.46	10.58	1.84
1.417	1.40	4.500	2.92	7.583	3.46	10.67	1.84
1.500	1.40	4.583	2.92	7.667	3.46	10.75	1.19
1.583	1.40	4.667	2.92	7.750	3.02	10.83	1.19
1.667	1.40	4.750	3.67	7.833	3.02	10.92	1.19
1.750	1.40	4.833	3.67	7.917	3.02	11.00	1.19
1.833	1.40	4.917	3.67	8.000	3.02	11.08	1.19
1.917	1.40	5.000	3.67	8.083	3.02	11.17	1.19
2.000	1.40	5.083	3.67	8.167	3.02	11.25	1.08
2.083	1.40	5.167	3.67	8.250	2.38	11.33	1.08
2.167	1.40	5.250	5.83	8.333	2.38	11.42	1.08
2.250	1.84	5.333	5.83	8.417	2.38	11.50	1.08
2.333	1.84	5.417	5.83	8.500	2.38	11.58	1.08
2.417	1.84	5.500	5.83	8.583	2.38	11.67	1.08
2.500	1.84	5.583	5.83	8.667	2.38	11.75	1.08
2.583	1.84	5.667	5.83	8.750	2.48	11.83	1.08
2.667	1.84	5.750	46.22	8.833	2.48	11.92	1.08
2.750	1.62	5.833	46.22	8.917	2.48	12.00	1.08
2.833	1.62	5.917	46.22	9.000	2.48	12.08	1.08
2.917	1.62	6.000	46.22	9.083	2.48	12.17	1.08
3.000	1.62	6.083	46.22	9.167	2.48		
3.083	1.62	6.167	46.22	9.250	1.62		

Unit Hyd Qpeak (cms)= 2.549

PEAK FLOW (cms)= 0.683 (i)
TIME TO PEAK (hrs)= 9.000
RUNOFF VOLUME (mm)= 9.948
TOTAL RAINFALL (mm)= 54.000
RUNOFF COEFFICIENT = 0.184

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| CALIB |
| STANDHYD ( 0190) | Area (ha)= 1.71
| ID= 1 DT= 5.0 min | Total Imp(%)= 72.00 Dir. Conn.(%)= 72.00
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2.750 1.62 | 5.833 46.22 | 8.917 2.48 | 12.00 1.08
2.833 1.62 | 5.917 46.22 | 9.000 2.48 | 12.08 1.08
2.917 1.62 | 6.000 46.22 | 9.083 2.48 | 12.17 1.08
3.000 1.62 | 6.083 46.22 | 9.167 2.48 |
3.083 1.62 | 6.167 46.22 | 9.250 1.62 |

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IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 1.23 0.48
Dep. Storage (mm)= 1.00 5.00
Average Slope (%)= 1.00 2.00
Length (m)= 106.86 40.00
Mannings n = 0.013 0.350

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Max.Eff.Inten.(mm/hr)= 46.22 9.95
over (min) 5.00 30.00
Storage Coeff. (min)= 3.62 (ii) 25.36 (ii)
Unit Hyd. Tpeak (min)= 5.00 30.00
Unit Hyd. peak (cms)= 0.25 0.04

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

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*TOTALS*
PEAK FLOW (cms)= 0.16 0.01 0.163 (iii)
TIME TO PEAK (hrs)= 6.17 6.50 6.17
RUNOFF VOLUME (mm)= 53.00 11.36 41.33
TOTAL RAINFALL (mm)= 54.00 54.00 54.00
RUNOFF COEFFICIENT = 0.98 0.21 0.77

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----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	1.62	6.250	11.77	9.33	1.62
0.167	0.00	3.250	2.16	6.333	11.77	9.42	1.62
0.250	1.62	3.333	2.16	6.417	11.77	9.50	1.62
0.333	1.62	3.417	2.16	6.500	11.77	9.58	1.62
0.417	1.62	3.500	2.16	6.583	11.77	9.67	1.62
0.500	1.62	3.583	2.16	6.667	11.77	9.75	1.30
0.583	1.62	3.667	2.16	6.750	5.18	9.83	1.30
0.667	1.62	3.750	2.16	6.833	5.18	9.92	1.30
0.750	0.76	3.833	2.16	6.917	5.18	10.00	1.30
0.833	0.76	3.917	2.16	7.000	5.18	10.08	1.30
0.917	0.76	4.000	2.16	7.083	5.18	10.17	1.30
1.000	0.76	4.083	2.16	7.167	5.18	10.25	1.84
1.083	0.76	4.167	2.16	7.250	3.46	10.33	1.84
1.167	0.76	4.250	2.92	7.333	3.46	10.42	1.84
1.250	1.40	4.333	2.92	7.417	3.46	10.50	1.84
1.333	1.40	4.417	2.92	7.500	3.46	10.58	1.84
1.417	1.40	4.500	2.92	7.583	3.46	10.67	1.84
1.500	1.40	4.583	2.92	7.667	3.46	10.75	1.19
1.583	1.40	4.667	2.92	7.750	3.02	10.83	1.19
1.667	1.40	4.750	3.67	7.833	3.02	10.92	1.19
1.750	1.40	4.833	3.67	7.917	3.02	11.00	1.19
1.833	1.40	4.917	3.67	8.000	3.02	11.08	1.19
1.917	1.40	5.000	3.67	8.083	3.02	11.17	1.19
2.000	1.40	5.083	3.67	8.167	3.02	11.25	1.08
2.083	1.40	5.167	3.67	8.250	2.38	11.33	1.08
2.167	1.40	5.250	5.83	8.333	2.38	11.42	1.08
2.250	1.84	5.333	5.83	8.417	2.38	11.50	1.08
2.333	1.84	5.417	5.83	8.500	2.38	11.58	1.08
2.417	1.84	5.500	5.83	8.583	2.38	11.67	1.08
2.500	1.84	5.583	5.83	8.667	2.38	11.75	1.08
2.583	1.84	5.667	5.83	8.750	2.48	11.83	1.08
2.667	1.84	5.750	46.22	8.833	2.48	11.92	1.08

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 61.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| ADD HYD ( 0030) |
| 1 + 2 = 3 |
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AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)
ID1= 1 ( 0190): 1.71 0.163 6.17 41.33
+ ID2= 2 ( 0191): 146.82 0.683 9.00 9.95
=====
ID = 3 ( 0030): 148.53 0.693 9.00 10.31
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NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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| CALIB |
| NASHYD ( 0192) | Area (ha)= 277.13 Curve Number (CN)= 66.0
| ID= 1 DT= 5.0 min | Ia (mm)= 9.70 # of Linear Res.(N)= 3.00
-----
U.H. Tp(hrs)= 2.41

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
------	------	------	------	------	------	------	------

hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	1.62	6.250	11.77	9.33	1.62
0.167	0.00	3.250	2.16	6.333	11.77	9.42	1.62
0.250	1.62	3.333	2.16	6.417	11.77	9.50	1.62
0.333	1.62	3.417	2.16	6.500	11.77	9.58	1.62
0.417	1.62	3.500	2.16	6.583	11.77	9.67	1.62
0.500	1.62	3.583	2.16	6.667	11.77	9.75	1.30
0.583	1.62	3.667	2.16	6.750	5.18	9.83	1.30
0.667	1.62	3.750	2.16	6.833	5.18	9.92	1.30
0.750	0.76	3.833	2.16	6.917	5.18	10.00	1.30
0.833	0.76	3.917	2.16	7.000	5.18	10.08	1.30
0.917	0.76	4.000	2.16	7.083	5.18	10.17	1.30
1.000	0.76	4.083	2.16	7.167	5.18	10.25	1.84
1.083	0.76	4.167	2.16	7.250	3.46	10.33	1.84
1.167	0.76	4.250	2.92	7.333	3.46	10.42	1.84
1.250	1.40	4.333	2.92	7.417	3.46	10.50	1.84
1.333	1.40	4.417	2.92	7.500	3.46	10.58	1.84
1.417	1.40	4.500	2.92	7.583	3.46	10.67	1.84
1.500	1.40	4.583	2.92	7.667	3.46	10.75	1.19
1.583	1.40	4.667	2.92	7.750	3.02	10.83	1.19
1.667	1.40	4.750	3.67	7.833	3.02	10.92	1.19
1.750	1.40	4.833	3.67	7.917	3.02	11.00	1.19
1.833	1.40	4.917	3.67	8.000	3.02	11.08	1.19
1.917	1.40	5.000	3.67	8.083	3.02	11.17	1.19
2.000	1.40	5.083	3.67	8.167	3.02	11.25	1.08
2.083	1.40	5.167	3.67	8.250	2.38	11.33	1.08
2.167	1.40	5.250	5.83	8.333	2.38	11.42	1.08
2.250	1.84	5.333	5.83	8.417	2.38	11.50	1.08
2.333	1.84	5.417	5.83	8.500	2.38	11.58	1.08
2.417	1.84	5.500	5.83	8.583	2.38	11.67	1.08
2.500	1.84	5.583	5.83	8.667	2.38	11.75	1.08
2.583	1.84	5.667	5.83	8.750	2.48	11.83	1.08
2.667	1.84	5.750	46.22	8.833	2.48	11.92	1.08
2.750	1.62	5.833	46.22	8.917	2.48	12.00	1.08
2.833	1.62	5.917	46.22	9.000	2.48	12.08	1.08
2.917	1.62	6.000	46.22	9.083	2.48	12.17	1.08
3.000	1.62	6.083	46.22	9.167	2.48		
3.083	1.62	6.167	46.22	9.250	1.62		

Unit Hyd Qpeak (cms)= 4.392

PEAK FLOW (cms)= 1.391 (i)
 TIME TO PEAK (hrs)= 9.250
 RUNOFF VOLUME (mm)= 11.205
 TOTAL RAINFALL (mm)= 54.000
 RUNOFF COEFFICIENT = 0.207

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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-----
| ADD HYD ( 0061) |
| 1 + 2 = 3 |
-----
                AREA   QPEAK   TPEAK   R.V.
                (ha)   (cms)   (hrs)   (mm)
ID1= 1 ( 0192): 277.13 1.391  9.25  11.20
+ ID2= 2 ( 0030): 148.53 0.693  9.00  10.31
=====
ID = 3 ( 0061): 425.66 2.083  9.17  10.89

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NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| CALIB |
| NASHYD ( 0195) | Area (ha)= 496.70 Curve Number (CN)= 74.0
| ID= 1 DT= 5.0 min | Ia (mm)= 9.20 # of Linear Res.(N)= 3.00
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                U.H. Tp(hrs)= 3.71

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

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----- TRANSFORMED HYETOGRAPH -----

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TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	1.62	6.250	11.77	9.33	1.62
0.167	0.00	3.250	2.16	6.333	11.77	9.42	1.62
0.250	1.62	3.333	2.16	6.417	11.77	9.50	1.62
0.333	1.62	3.417	2.16	6.500	11.77	9.58	1.62
0.417	1.62	3.500	2.16	6.583	11.77	9.67	1.62
0.500	1.62	3.583	2.16	6.667	11.77	9.75	1.30
0.583	1.62	3.667	2.16	6.750	5.18	9.83	1.30
0.667	1.62	3.750	2.16	6.833	5.18	9.92	1.30
0.750	0.76	3.833	2.16	6.917	5.18	10.00	1.30
0.833	0.76	3.917	2.16	7.000	5.18	10.08	1.30
0.917	0.76	4.000	2.16	7.083	5.18	10.17	1.30
1.000	0.76	4.083	2.16	7.167	5.18	10.25	1.84
1.083	0.76	4.167	2.16	7.250	3.46	10.33	1.84
1.167	0.76	4.250	2.92	7.333	3.46	10.42	1.84
1.250	1.40	4.333	2.92	7.417	3.46	10.50	1.84
1.333	1.40	4.417	2.92	7.500	3.46	10.58	1.84
1.417	1.40	4.500	2.92	7.583	3.46	10.67	1.84
1.500	1.40	4.583	2.92	7.667	3.46	10.75	1.19
1.583	1.40	4.667	2.92	7.750	3.02	10.83	1.19
1.667	1.40	4.750	3.67	7.833	3.02	10.92	1.19
1.750	1.40	4.833	3.67	7.917	3.02	11.00	1.19
1.833	1.40	4.917	3.67	8.000	3.02	11.08	1.19
1.917	1.40	5.000	3.67	8.083	3.02	11.17	1.19
2.000	1.40	5.083	3.67	8.167	3.02	11.25	1.08
2.083	1.40	5.167	3.67	8.250	2.38	11.33	1.08
2.167	1.40	5.250	5.83	8.333	2.38	11.42	1.08

2.250	1.84	5.333	5.83	8.417	2.38	11.50	1.08
2.333	1.84	5.417	5.83	8.500	2.38	11.58	1.08
2.417	1.84	5.500	5.83	8.583	2.38	11.67	1.08
2.500	1.84	5.583	5.83	8.667	2.38	11.75	1.08
2.583	1.84	5.667	5.83	8.750	2.48	11.83	1.08
2.667	1.84	5.750	46.22	8.833	2.48	11.92	1.08
2.750	1.62	5.833	46.22	8.917	2.48	12.00	1.08
2.833	1.62	5.917	46.22	9.000	2.48	12.08	1.08
2.917	1.62	6.000	46.22	9.083	2.48	12.17	1.08
3.000	1.62	6.083	46.22	9.167	2.48		
3.083	1.62	6.167	46.22	9.250	1.62		

1.333	1.40	4.417	2.92	7.500	3.46	10.58	1.84
1.417	1.40	4.500	2.92	7.583	3.46	10.67	1.84
1.500	1.40	4.583	2.92	7.667	3.46	10.75	1.19
1.583	1.40	4.667	2.92	7.750	3.02	10.83	1.19
1.667	1.40	4.750	3.67	7.833	3.02	10.92	1.19
1.750	1.40	4.833	3.67	7.917	3.02	11.00	1.19
1.833	1.40	4.917	3.67	8.000	3.02	11.08	1.19
1.917	1.40	5.000	3.67	8.083	3.02	11.17	1.19
2.000	1.40	5.083	3.67	8.167	3.02	11.25	1.08
2.083	1.40	5.167	3.67	8.250	2.38	11.33	1.08
2.167	1.40	5.250	5.83	8.333	2.38	11.42	1.08
2.250	1.84	5.333	5.83	8.417	2.38	11.50	1.08
2.333	1.84	5.417	5.83	8.500	2.38	11.58	1.08
2.417	1.84	5.500	5.83	8.583	2.38	11.67	1.08
2.500	1.84	5.583	5.83	8.667	2.38	11.75	1.08
2.583	1.84	5.667	5.83	8.750	2.48	11.83	1.08
2.667	1.84	5.750	46.22	8.833	2.48	11.92	1.08
2.750	1.62	5.833	46.22	8.917	2.48	12.00	1.08
2.833	1.62	5.917	46.22	9.000	2.48	12.08	1.08
2.917	1.62	6.000	46.22	9.083	2.48	12.17	1.08
3.000	1.62	6.083	46.22	9.167	2.48		
3.083	1.62	6.167	46.22	9.250	1.62		

Unit Hyd Qpeak (cms)= 5.114

PEAK FLOW (cms)= 2.460 (i)
 TIME TO PEAK (hrs)= 10.833
 RUNOFF VOLUME (mm)= 14.973
 TOTAL RAINFALL (mm)= 54.000
 RUNOFF COEFFICIENT = 0.277

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | NASHYD (0201) | Area (ha)= 30.53 Curve Number (CN)= 71.0
 | ID= 1 DT= 5.0 min | Ia (mm)= 10.70 # of Linear Res.(N)= 3.00

 U.H. Tp(hrs)= 0.57

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	1.62	6.250	11.77	9.33	1.62
0.167	0.00	3.250	2.16	6.333	11.77	9.42	1.62
0.250	1.62	3.333	2.16	6.417	11.77	9.50	1.62
0.333	1.62	3.417	2.16	6.500	11.77	9.58	1.62
0.417	1.62	3.500	2.16	6.583	11.77	9.67	1.62
0.500	1.62	3.583	2.16	6.667	11.77	9.75	1.30
0.583	1.62	3.667	2.16	6.750	5.18	9.83	1.30
0.667	1.62	3.750	2.16	6.833	5.18	9.92	1.30
0.750	0.76	3.833	2.16	6.917	5.18	10.00	1.30
0.833	0.76	3.917	2.16	7.000	5.18	10.08	1.30
0.917	0.76	4.000	2.16	7.083	5.18	10.17	1.30
1.000	0.76	4.083	2.16	7.167	5.18	10.25	1.84
1.083	0.76	4.167	2.16	7.250	3.46	10.33	1.84
1.167	0.76	4.250	2.92	7.333	3.46	10.42	1.84
1.250	1.40	4.333	2.92	7.417	3.46	10.50	1.84

Unit Hyd Qpeak (cms)= 2.046

PEAK FLOW (cms)= 0.474 (i)
 TIME TO PEAK (hrs)= 6.750
 RUNOFF VOLUME (mm)= 12.750
 TOTAL RAINFALL (mm)= 54.000
 RUNOFF COEFFICIENT = 0.236

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | STANDHYD (0200) | Area (ha)= 5.18
 | ID= 1 DT= 5.0 min | Total Imp(%)= 39.00 Dir. Conn.(%)= 39.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	2.02	3.16
Dep. Storage (mm)=	1.00	5.00
Average Slope (%)=	1.00	2.00
Length (m)=	185.83	40.00
Mannings n =	0.013	0.350

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	1.62	6.250	11.77	9.33	1.62
0.167	0.00	3.250	2.16	6.333	11.77	9.42	1.62
0.250	1.62	3.333	2.16	6.417	11.77	9.50	1.62
0.333	1.62	3.417	2.16	6.500	11.77	9.58	1.62
0.417	1.62	3.500	2.16	6.583	11.77	9.67	1.62
0.500	1.62	3.583	2.16	6.667	11.77	9.75	1.30
0.583	1.62	3.667	2.16	6.750	5.18	9.83	1.30
0.667	1.62	3.750	2.16	6.833	5.18	9.92	1.30
0.750	0.76	3.833	2.16	6.917	5.18	10.00	1.30
0.833	0.76	3.917	2.16	7.000	5.18	10.08	1.30
0.917	0.76	4.000	2.16	7.083	5.18	10.17	1.30
1.000	0.76	4.083	2.16	7.167	5.18	10.25	1.84
1.083	0.76	4.167	2.16	7.250	3.46	10.33	1.84
1.167	0.76	4.250	2.92	7.333	3.46	10.42	1.84
1.250	1.40	4.333	2.92	7.417	3.46	10.50	1.84
1.333	1.40	4.417	2.92	7.500	3.46	10.58	1.84
1.417	1.40	4.500	2.92	7.583	3.46	10.67	1.84
1.500	1.40	4.583	2.92	7.667	3.46	10.75	1.19
1.583	1.40	4.667	2.92	7.750	3.02	10.83	1.19
1.667	1.40	4.750	3.67	7.833	3.02	10.92	1.19
1.750	1.40	4.833	3.67	7.917	3.02	11.00	1.19
1.833	1.40	4.917	3.67	8.000	3.02	11.08	1.19
1.917	1.40	5.000	3.67	8.083	3.02	11.17	1.19
2.000	1.40	5.083	3.67	8.167	3.02	11.25	1.08
2.083	1.40	5.167	3.67	8.250	2.38	11.33	1.08
2.167	1.40	5.250	5.83	8.333	2.38	11.42	1.08
2.250	1.84	5.333	5.83	8.417	2.38	11.50	1.08
2.333	1.84	5.417	5.83	8.500	2.38	11.58	1.08
2.417	1.84	5.500	5.83	8.583	2.38	11.67	1.08
2.500	1.84	5.583	5.83	8.667	2.38	11.75	1.08
2.583	1.84	5.667	5.83	8.750	2.48	11.83	1.08
2.667	1.84	5.750	46.22	8.833	2.48	11.92	1.08
2.750	1.62	5.833	46.22	8.917	2.48	12.00	1.08
2.833	1.62	5.917	46.22	9.000	2.48	12.08	1.08
2.917	1.62	6.000	46.22	9.083	2.48	12.17	1.08
3.000	1.62	6.083	46.22	9.167	2.48		
3.083	1.62	6.167	46.22	9.250	1.62		

Max.Eff.Inten.(mm/hr)= 46.22 15.74
over (min) 5.00 25.00
Storage Coeff. (min)= 5.05 (ii) 23.14 (ii)
Unit Hyd. Tpeak (min)= 5.00 25.00
Unit Hyd. peak (cms)= 0.21 0.05

TOTALS
PEAK FLOW (cms)= 0.26 0.08 0.318 (iii)
TIME TO PEAK (hrs)= 6.17 6.42 6.17
RUNOFF VOLUME (mm)= 53.00 16.25 30.58
TOTAL RAINFALL (mm)= 54.00 54.00 54.00

RUNOFF COEFFICIENT = 0.98 0.30 0.57

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 72.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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-----
| ADD HYD ( 0033) |
| 1 + 2 = 3 |
-----
          AREA   QPEAK   TPEAK   R.V.
          (ha)   (cms)   (hrs)   (mm)
ID1= 1 ( 0200):  5.18  0.318  6.17  30.58
+ ID2= 2 ( 0201): 30.53  0.474  6.75  12.75
-----
ID = 3 ( 0033):  35.71  0.604  6.67  15.34

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NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| CALIB |
| NASHYD ( 0196) | Area (ha)= 65.48 Curve Number (CN)= 72.0
| ID= 1 DT= 5.0 min | Ia (mm)= 10.20 # of Linear Res.(N)= 3.00
-----
          U.H. Tp(hrs)= 0.68

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	1.62	6.250	11.77	9.33	1.62
0.167	0.00	3.250	2.16	6.333	11.77	9.42	1.62
0.250	1.62	3.333	2.16	6.417	11.77	9.50	1.62
0.333	1.62	3.417	2.16	6.500	11.77	9.58	1.62
0.417	1.62	3.500	2.16	6.583	11.77	9.67	1.62
0.500	1.62	3.583	2.16	6.667	11.77	9.75	1.30
0.583	1.62	3.667	2.16	6.750	5.18	9.83	1.30
0.667	1.62	3.750	2.16	6.833	5.18	9.92	1.30
0.750	0.76	3.833	2.16	6.917	5.18	10.00	1.30
0.833	0.76	3.917	2.16	7.000	5.18	10.08	1.30
0.917	0.76	4.000	2.16	7.083	5.18	10.17	1.30
1.000	0.76	4.083	2.16	7.167	5.18	10.25	1.84
1.083	0.76	4.167	2.16	7.250	3.46	10.33	1.84
1.167	0.76	4.250	2.92	7.333	3.46	10.42	1.84
1.250	1.40	4.333	2.92	7.417	3.46	10.50	1.84
1.333	1.40	4.417	2.92	7.500	3.46	10.58	1.84

1.417	1.40	4.500	2.92	7.583	3.46	10.67	1.84
1.500	1.40	4.583	2.92	7.667	3.46	10.75	1.19
1.583	1.40	4.667	2.92	7.750	3.02	10.83	1.19
1.667	1.40	4.750	3.67	7.833	3.02	10.92	1.19
1.750	1.40	4.833	3.67	7.917	3.02	11.00	1.19
1.833	1.40	4.917	3.67	8.000	3.02	11.08	1.19
1.917	1.40	5.000	3.67	8.083	3.02	11.17	1.19
2.000	1.40	5.083	3.67	8.167	3.02	11.25	1.08
2.083	1.40	5.167	3.67	8.250	2.38	11.33	1.08
2.167	1.40	5.250	5.83	8.333	2.38	11.42	1.08
2.250	1.84	5.333	5.83	8.417	2.38	11.50	1.08
2.333	1.84	5.417	5.83	8.500	2.38	11.58	1.08
2.417	1.84	5.500	5.83	8.583	2.38	11.67	1.08
2.500	1.84	5.583	5.83	8.667	2.38	11.75	1.08
2.583	1.84	5.667	5.83	8.750	2.48	11.83	1.08
2.667	1.84	5.750	46.22	8.833	2.48	11.92	1.08
2.750	1.62	5.833	46.22	8.917	2.48	12.00	1.08
2.833	1.62	5.917	46.22	9.000	2.48	12.08	1.08
2.917	1.62	6.000	46.22	9.083	2.48	12.17	1.08
3.000	1.62	6.083	46.22	9.167	2.48		
3.083	1.62	6.167	46.22	9.250	1.62		

	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	1.62	6.250	11.77	9.33	1.62	
0.167	0.00	3.250	2.16	6.333	11.77	9.42	1.62	
0.250	1.62	3.333	2.16	6.417	11.77	9.50	1.62	
0.333	1.62	3.417	2.16	6.500	11.77	9.58	1.62	
0.417	1.62	3.500	2.16	6.583	11.77	9.67	1.62	
0.500	1.62	3.583	2.16	6.667	11.77	9.75	1.30	
0.583	1.62	3.667	2.16	6.750	5.18	9.83	1.30	
0.667	1.62	3.750	2.16	6.833	5.18	9.92	1.30	
0.750	0.76	3.833	2.16	6.917	5.18	10.00	1.30	
0.833	0.76	3.917	2.16	7.000	5.18	10.08	1.30	
0.917	0.76	4.000	2.16	7.083	5.18	10.17	1.30	
1.000	0.76	4.083	2.16	7.167	5.18	10.25	1.84	
1.083	0.76	4.167	2.16	7.250	3.46	10.33	1.84	
1.167	0.76	4.250	2.92	7.333	3.46	10.42	1.84	
1.250	1.40	4.333	2.92	7.417	3.46	10.50	1.84	
1.333	1.40	4.417	2.92	7.500	3.46	10.58	1.84	
1.417	1.40	4.500	2.92	7.583	3.46	10.67	1.84	
1.500	1.40	4.583	2.92	7.667	3.46	10.75	1.19	
1.583	1.40	4.667	2.92	7.750	3.02	10.83	1.19	
1.667	1.40	4.750	3.67	7.833	3.02	10.92	1.19	
1.750	1.40	4.833	3.67	7.917	3.02	11.00	1.19	
1.833	1.40	4.917	3.67	8.000	3.02	11.08	1.19	
1.917	1.40	5.000	3.67	8.083	3.02	11.17	1.19	
2.000	1.40	5.083	3.67	8.167	3.02	11.25	1.08	
2.083	1.40	5.167	3.67	8.250	2.38	11.33	1.08	
2.167	1.40	5.250	5.83	8.333	2.38	11.42	1.08	
2.250	1.84	5.333	5.83	8.417	2.38	11.50	1.08	
2.333	1.84	5.417	5.83	8.500	2.38	11.58	1.08	
2.417	1.84	5.500	5.83	8.583	2.38	11.67	1.08	
2.500	1.84	5.583	5.83	8.667	2.38	11.75	1.08	
2.583	1.84	5.667	5.83	8.750	2.48	11.83	1.08	
2.667	1.84	5.750	46.22	8.833	2.48	11.92	1.08	
2.750	1.62	5.833	46.22	8.917	2.48	12.00	1.08	
2.833	1.62	5.917	46.22	9.000	2.48	12.08	1.08	
2.917	1.62	6.000	46.22	9.083	2.48	12.17	1.08	
3.000	1.62	6.083	46.22	9.167	2.48			
3.083	1.62	6.167	46.22	9.250	1.62			

Unit Hyd Qpeak (cms)= 3.678

PEAK FLOW (cms)= 0.968 (i)
 TIME TO PEAK (hrs)= 6.917
 RUNOFF VOLUME (mm)= 13.455
 TOTAL RAINFALL (mm)= 54.000
 RUNOFF COEFFICIENT = 0.249

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | STANDHYD (0210) | Area (ha)= 0.57
 | ID= 1 DT= 5.0 min | Total Imp(%)= 39.00 Dir. Conn.(%)= 39.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.22	0.35
Dep. Storage (mm)=	1.00	5.00
Average Slope (%)=	1.00	2.00
Length (m)=	61.73	40.00
Mannings n =	0.013	0.350

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----
 TIME RAIN | TIME RAIN | TIME RAIN | TIME RAIN

Max.Eff.Inten.(mm/hr)=	46.22	14.15
over (min)	5.00	25.00
Storage Coeff. (min)=	2.60 (ii)	21.49 (ii)
Unit Hyd. Tpeak (min)=	5.00	25.00
Unit Hyd. peak (cms)=	0.29	0.05

TOTALS

PEAK FLOW (cms)=	0.03	0.01	0.035 (iii)
TIME TO PEAK (hrs)=	6.17	6.42	6.17
RUNOFF VOLUME (mm)=	53.00	14.72	29.63
TOTAL RAINFALL (mm)=	54.00	54.00	54.00
RUNOFF COEFFICIENT =	0.98	0.27	0.55

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

2.417	1.84	5.500	5.83	8.583	2.38	11.67	1.08
2.500	1.84	5.583	5.83	8.667	2.38	11.75	1.08
2.583	1.84	5.667	5.83	8.750	2.48	11.83	1.08
2.667	1.84	5.750	46.22	8.833	2.48	11.92	1.08
2.750	1.62	5.833	46.22	8.917	2.48	12.00	1.08
2.833	1.62	5.917	46.22	9.000	2.48	12.08	1.08
2.917	1.62	6.000	46.22	9.083	2.48	12.17	1.08
3.000	1.62	6.083	46.22	9.167	2.48		
3.083	1.62	6.167	46.22	9.250	1.62		

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| CALIB |
| NASHYD ( 0211) | Area (ha)= 2.03 Curve Number (CN)= 72.0
| ID= 1 DT= 5.0 min | Ia (mm)= 10.40 # of Linear Res.(N)= 3.00
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| U.H. Tp(hrs)= 0.15

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	1.62	6.250	11.77	9.33	1.62
0.167	0.00	3.250	2.16	6.333	11.77	9.42	1.62
0.250	1.62	3.333	2.16	6.417	11.77	9.50	1.62
0.333	1.62	3.417	2.16	6.500	11.77	9.58	1.62
0.417	1.62	3.500	2.16	6.583	11.77	9.67	1.62
0.500	1.62	3.583	2.16	6.667	11.77	9.75	1.30
0.583	1.62	3.667	2.16	6.750	5.18	9.83	1.30
0.667	1.62	3.750	2.16	6.833	5.18	9.92	1.30
0.750	0.76	3.833	2.16	6.917	5.18	10.00	1.30
0.833	0.76	3.917	2.16	7.000	5.18	10.08	1.30
0.917	0.76	4.000	2.16	7.083	5.18	10.17	1.30
1.000	0.76	4.083	2.16	7.167	5.18	10.25	1.84
1.083	0.76	4.167	2.16	7.250	3.46	10.33	1.84
1.167	0.76	4.250	2.92	7.333	3.46	10.42	1.84
1.250	1.40	4.333	2.92	7.417	3.46	10.50	1.84
1.333	1.40	4.417	2.92	7.500	3.46	10.58	1.84
1.417	1.40	4.500	2.92	7.583	3.46	10.67	1.84
1.500	1.40	4.583	2.92	7.667	3.46	10.75	1.19
1.583	1.40	4.667	2.92	7.750	3.02	10.83	1.19
1.667	1.40	4.750	3.67	7.833	3.02	10.92	1.19
1.750	1.40	4.833	3.67	7.917	3.02	11.00	1.19
1.833	1.40	4.917	3.67	8.000	3.02	11.08	1.19
1.917	1.40	5.000	3.67	8.083	3.02	11.17	1.19
2.000	1.40	5.083	3.67	8.167	3.02	11.25	1.08
2.083	1.40	5.167	3.67	8.250	2.38	11.33	1.08
2.167	1.40	5.250	5.83	8.333	2.38	11.42	1.08
2.250	1.84	5.333	5.83	8.417	2.38	11.50	1.08
2.333	1.84	5.417	5.83	8.500	2.38	11.58	1.08

Unit Hyd Qpeak (cms)= 0.517

PEAK FLOW (cms)= 0.069 (i)
 TIME TO PEAK (hrs)= 6.167
 RUNOFF VOLUME (mm)= 13.274
 TOTAL RAINFALL (mm)= 54.000
 RUNOFF COEFFICIENT = 0.246

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| ADD HYD ( 0036) |
| 1 + 2 = 3 |
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	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0210):	0.57	0.035	6.17	29.63
+ ID2= 2 (0211):	2.03	0.069	6.17	13.27
=====				
ID = 3 (0036):	2.60	0.103	6.17	16.86

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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| ADD HYD ( 0059) |
| 1 + 2 = 3 |
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	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0195):	496.70	2.460	10.83	14.97
+ ID2= 2 (0196):	65.48	0.968	6.92	13.46
=====				
ID = 3 (0059):	562.18	2.612	10.83	14.80

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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| ADD HYD ( 0059) |
| 3 + 2 = 1 |
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	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)

ID1= 3 (0059): 562.18 2.612 10.83 14.80
 + ID2= 2 (0033): 35.71 0.604 6.67 15.34
 =====
 ID = 1 (0059): 597.89 2.695 10.75 14.83

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

 | ADD HYD (0059) |
1 + 2 = 3

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0059):	597.89	2.695	10.75	14.83
+ ID2= 2 (0036):	2.60	0.103	6.17	16.86
=====				
ID = 3 (0059):	600.49	2.702	10.67	14.84

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

 | CALIB |
 | NASHYD (0194) |
ID= 1 DT= 5.0 min

Area (ha)=	Curve Number (CN)=
160.45	74.0
Ia (mm)=	# of Linear Res.(N)=
9.10	3.00
U.H. Tp(hrs)=	2.14

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	1.62	6.250	11.77	9.33	1.62
0.167	0.00	3.250	2.16	6.333	11.77	9.42	1.62
0.250	1.62	3.333	2.16	6.417	11.77	9.50	1.62
0.333	1.62	3.417	2.16	6.500	11.77	9.58	1.62
0.417	1.62	3.500	2.16	6.583	11.77	9.67	1.62
0.500	1.62	3.583	2.16	6.667	11.77	9.75	1.30
0.583	1.62	3.667	2.16	6.750	5.18	9.83	1.30
0.667	1.62	3.750	2.16	6.833	5.18	9.92	1.30
0.750	0.76	3.833	2.16	6.917	5.18	10.00	1.30
0.833	0.76	3.917	2.16	7.000	5.18	10.08	1.30
0.917	0.76	4.000	2.16	7.083	5.18	10.17	1.30
1.000	0.76	4.083	2.16	7.167	5.18	10.25	1.84
1.083	0.76	4.167	2.16	7.250	3.46	10.33	1.84
1.167	0.76	4.250	2.92	7.333	3.46	10.42	1.84
1.250	1.40	4.333	2.92	7.417	3.46	10.50	1.84
1.333	1.40	4.417	2.92	7.500	3.46	10.58	1.84
1.417	1.40	4.500	2.92	7.583	3.46	10.67	1.84
1.500	1.40	4.583	2.92	7.667	3.46	10.75	1.19
1.583	1.40	4.667	2.92	7.750	3.02	10.83	1.19

1.667	1.40	4.750	3.67	7.833	3.02	10.92	1.19
1.750	1.40	4.833	3.67	7.917	3.02	11.00	1.19
1.833	1.40	4.917	3.67	8.000	3.02	11.08	1.19
1.917	1.40	5.000	3.67	8.083	3.02	11.17	1.19
2.000	1.40	5.083	3.67	8.167	3.02	11.25	1.08
2.083	1.40	5.167	3.67	8.250	2.38	11.33	1.08
2.167	1.40	5.250	5.83	8.333	2.38	11.42	1.08
2.250	1.84	5.333	5.83	8.417	2.38	11.50	1.08
2.333	1.84	5.417	5.83	8.500	2.38	11.58	1.08
2.417	1.84	5.500	5.83	8.583	2.38	11.67	1.08
2.500	1.84	5.583	5.83	8.667	2.38	11.75	1.08
2.583	1.84	5.667	5.83	8.750	2.48	11.83	1.08
2.667	1.84	5.750	46.22	8.833	2.48	11.92	1.08
2.750	1.62	5.833	46.22	8.917	2.48	12.00	1.08
2.833	1.62	5.917	46.22	9.000	2.48	12.08	1.08
2.917	1.62	6.000	46.22	9.083	2.48	12.17	1.08
3.000	1.62	6.083	46.22	9.167	2.48		
3.083	1.62	6.167	46.22	9.250	1.62		

Unit Hyd Qpeak (cms)= 2.864

PEAK FLOW (cms)= 1.194 (i)
 TIME TO PEAK (hrs)= 8.750
 RUNOFF VOLUME (mm)= 15.029
 TOTAL RAINFALL (mm)= 54.000
 RUNOFF COEFFICIENT = 0.278

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | ADD HYD (0016) |
1 + 2 = 3

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0194):	160.45	1.194	8.75	15.03
+ ID2= 2 (0059):	600.49	2.702	10.67	14.84
=====				
ID = 3 (0016):	760.94	3.732	9.67	14.88

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

 | CALIB |
 | NASHYD (0193) |
ID= 1 DT= 5.0 min

Area (ha)=	Curve Number (CN)=
48.62	66.0
Ia (mm)=	# of Linear Res.(N)=
15.10	3.00
U.H. Tp(hrs)=	1.78

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	1.62	6.250	11.77	9.33	1.62
0.167	0.00	3.250	2.16	6.333	11.77	9.42	1.62
0.250	1.62	3.333	2.16	6.417	11.77	9.50	1.62
0.333	1.62	3.417	2.16	6.500	11.77	9.58	1.62
0.417	1.62	3.500	2.16	6.583	11.77	9.67	1.62
0.500	1.62	3.583	2.16	6.667	11.77	9.75	1.30
0.583	1.62	3.667	2.16	6.750	5.18	9.83	1.30
0.667	1.62	3.750	2.16	6.833	5.18	9.92	1.30
0.750	0.76	3.833	2.16	6.917	5.18	10.00	1.30
0.833	0.76	3.917	2.16	7.000	5.18	10.08	1.30
0.917	0.76	4.000	2.16	7.083	5.18	10.17	1.30
1.000	0.76	4.083	2.16	7.167	5.18	10.25	1.84
1.083	0.76	4.167	2.16	7.250	3.46	10.33	1.84
1.167	0.76	4.250	2.92	7.333	3.46	10.42	1.84
1.250	1.40	4.333	2.92	7.417	3.46	10.50	1.84
1.333	1.40	4.417	2.92	7.500	3.46	10.58	1.84
1.417	1.40	4.500	2.92	7.583	3.46	10.67	1.84
1.500	1.40	4.583	2.92	7.667	3.46	10.75	1.19
1.583	1.40	4.667	2.92	7.750	3.02	10.83	1.19
1.667	1.40	4.750	3.67	7.833	3.02	10.92	1.19
1.750	1.40	4.833	3.67	7.917	3.02	11.00	1.19
1.833	1.40	4.917	3.67	8.000	3.02	11.08	1.19
1.917	1.40	5.000	3.67	8.083	3.02	11.17	1.19
2.000	1.40	5.083	3.67	8.167	3.02	11.25	1.08
2.083	1.40	5.167	3.67	8.250	2.38	11.33	1.08
2.167	1.40	5.250	5.83	8.333	2.38	11.42	1.08
2.250	1.84	5.333	5.83	8.417	2.38	11.50	1.08
2.333	1.84	5.417	5.83	8.500	2.38	11.58	1.08
2.417	1.84	5.500	5.83	8.583	2.38	11.67	1.08
2.500	1.84	5.583	5.83	8.667	2.38	11.75	1.08
2.583	1.84	5.667	5.83	8.750	2.48	11.83	1.08
2.667	1.84	5.750	46.22	8.833	2.48	11.92	1.08
2.750	1.62	5.833	46.22	8.917	2.48	12.00	1.08
2.833	1.62	5.917	46.22	9.000	2.48	12.08	1.08
2.917	1.62	6.000	46.22	9.083	2.48	12.17	1.08
3.000	1.62	6.083	46.22	9.167	2.48		
3.083	1.62	6.167	46.22	9.250	1.62		

Unit Hyd Qpeak (cms)= 1.043
 PEAK FLOW (cms)= 0.231 (i)
 TIME TO PEAK (hrs)= 8.500
 RUNOFF VOLUME (mm)= 8.914
 TOTAL RAINFALL (mm)= 54.000
 RUNOFF COEFFICIENT = 0.165

	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0016):	760.94	3.732	9.67	14.88
+ ID2= 2 (0193):	48.62	0.231	8.50	8.91
=====				
ID = 3 (0060):	809.56	3.934	9.58	14.52

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

	Area	(ha)=	Curve Number	(CN)=
CALIB		16.61		51.0
NASHYD (0251)	Ia	(mm)= 24.90	# of Linear Res.(N)=	3.00
ID= 1 DT= 5.0 min	U.H. Tp	(hrs)= 0.50		

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	1.62	6.250	11.77	9.33	1.62
0.167	0.00	3.250	2.16	6.333	11.77	9.42	1.62
0.250	1.62	3.333	2.16	6.417	11.77	9.50	1.62
0.333	1.62	3.417	2.16	6.500	11.77	9.58	1.62
0.417	1.62	3.500	2.16	6.583	11.77	9.67	1.62
0.500	1.62	3.583	2.16	6.667	11.77	9.75	1.30
0.583	1.62	3.667	2.16	6.750	5.18	9.83	1.30
0.667	1.62	3.750	2.16	6.833	5.18	9.92	1.30
0.750	0.76	3.833	2.16	6.917	5.18	10.00	1.30
0.833	0.76	3.917	2.16	7.000	5.18	10.08	1.30
0.917	0.76	4.000	2.16	7.083	5.18	10.17	1.30
1.000	0.76	4.083	2.16	7.167	5.18	10.25	1.84
1.083	0.76	4.167	2.16	7.250	3.46	10.33	1.84
1.167	0.76	4.250	2.92	7.333	3.46	10.42	1.84
1.250	1.40	4.333	2.92	7.417	3.46	10.50	1.84
1.333	1.40	4.417	2.92	7.500	3.46	10.58	1.84
1.417	1.40	4.500	2.92	7.583	3.46	10.67	1.84
1.500	1.40	4.583	2.92	7.667	3.46	10.75	1.19
1.583	1.40	4.667	2.92	7.750	3.02	10.83	1.19
1.667	1.40	4.750	3.67	7.833	3.02	10.92	1.19
1.750	1.40	4.833	3.67	7.917	3.02	11.00	1.19
1.833	1.40	4.917	3.67	8.000	3.02	11.08	1.19
1.917	1.40	5.000	3.67	8.083	3.02	11.17	1.19

2.000	1.40	5.083	3.67	8.167	3.02	11.25	1.08
2.083	1.40	5.167	3.67	8.250	2.38	11.33	1.08
2.167	1.40	5.250	5.83	8.333	2.38	11.42	1.08
2.250	1.84	5.333	5.83	8.417	2.38	11.50	1.08
2.333	1.84	5.417	5.83	8.500	2.38	11.58	1.08
2.417	1.84	5.500	5.83	8.583	2.38	11.67	1.08
2.500	1.84	5.583	5.83	8.667	2.38	11.75	1.08
2.583	1.84	5.667	5.83	8.750	2.48	11.83	1.08
2.667	1.84	5.750	46.22	8.833	2.48	11.92	1.08
2.750	1.62	5.833	46.22	8.917	2.48	12.00	1.08
2.833	1.62	5.917	46.22	9.000	2.48	12.08	1.08
2.917	1.62	6.000	46.22	9.083	2.48	12.17	1.08
3.000	1.62	6.083	46.22	9.167	2.48		
3.083	1.62	6.167	46.22	9.250	1.62		

0.583	1.62	3.667	2.16	6.750	5.18	9.83	1.30
0.667	1.62	3.750	2.16	6.833	5.18	9.92	1.30
0.750	0.76	3.833	2.16	6.917	5.18	10.00	1.30
0.833	0.76	3.917	2.16	7.000	5.18	10.08	1.30
0.917	0.76	4.000	2.16	7.083	5.18	10.17	1.30
1.000	0.76	4.083	2.16	7.167	5.18	10.25	1.84
1.083	0.76	4.167	2.16	7.250	3.46	10.33	1.84
1.167	0.76	4.250	2.92	7.333	3.46	10.42	1.84
1.250	1.40	4.333	2.92	7.417	3.46	10.50	1.84
1.333	1.40	4.417	2.92	7.500	3.46	10.58	1.84
1.417	1.40	4.500	2.92	7.583	3.46	10.67	1.84
1.500	1.40	4.583	2.92	7.667	3.46	10.75	1.19
1.583	1.40	4.667	2.92	7.750	3.02	10.83	1.19
1.667	1.40	4.750	3.67	7.833	3.02	10.92	1.19
1.750	1.40	4.833	3.67	7.917	3.02	11.00	1.19
1.833	1.40	4.917	3.67	8.000	3.02	11.08	1.19
1.917	1.40	5.000	3.67	8.083	3.02	11.17	1.19
2.000	1.40	5.083	3.67	8.167	3.02	11.25	1.08
2.083	1.40	5.167	3.67	8.250	2.38	11.33	1.08
2.167	1.40	5.250	5.83	8.333	2.38	11.42	1.08
2.250	1.84	5.333	5.83	8.417	2.38	11.50	1.08
2.333	1.84	5.417	5.83	8.500	2.38	11.58	1.08
2.417	1.84	5.500	5.83	8.583	2.38	11.67	1.08
2.500	1.84	5.583	5.83	8.667	2.38	11.75	1.08
2.583	1.84	5.667	5.83	8.750	2.48	11.83	1.08
2.667	1.84	5.750	46.22	8.833	2.48	11.92	1.08
2.750	1.62	5.833	46.22	8.917	2.48	12.00	1.08
2.833	1.62	5.917	46.22	9.000	2.48	12.08	1.08
2.917	1.62	6.000	46.22	9.083	2.48	12.17	1.08
3.000	1.62	6.083	46.22	9.167	2.48		
3.083	1.62	6.167	46.22	9.250	1.62		

Unit Hyd Qpeak (cms)= 1.269

PEAK FLOW (cms)= 0.048 (i)
 TIME TO PEAK (hrs)= 6.917
 RUNOFF VOLUME (mm)= 3.100
 TOTAL RAINFALL (mm)= 54.000
 RUNOFF COEFFICIENT = 0.057

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | STANDHYD (0250) | Area (ha)= 0.93
 | ID= 1 DT= 5.0 min | Total Imp(%)= 41.00 Dir. Conn.(%)= 41.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.38	0.55
Dep. Storage (mm)=	1.00	5.00
Average Slope (%)=	1.00	2.00
Length (m)=	78.76	40.00
Mannings n =	0.013	0.350

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	1.62	6.250	11.77	9.33	1.62
0.167	0.00	3.250	2.16	6.333	11.77	9.42	1.62
0.250	1.62	3.333	2.16	6.417	11.77	9.50	1.62
0.333	1.62	3.417	2.16	6.500	11.77	9.58	1.62
0.417	1.62	3.500	2.16	6.583	11.77	9.67	1.62
0.500	1.62	3.583	2.16	6.667	11.77	9.75	1.30

Max.Eff.Inten.(mm/hr)= 46.22 11.04
 over (min) 5.00 25.00
 Storage Coeff. (min)= 3.01 (ii) 23.87 (ii)
 Unit Hyd. Tpeak (min)= 5.00 25.00
 Unit Hyd. peak (cms)= 0.28 0.05

TOTALS

PEAK FLOW (cms)= 0.05 0.01 0.056 (iii)
 TIME TO PEAK (hrs)= 6.17 6.42 6.17
 RUNOFF VOLUME (mm)= 53.00 12.51 29.10
 TOTAL RAINFALL (mm)= 54.00 54.00 54.00
 RUNOFF COEFFICIENT = 0.98 0.23 0.54

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
 CN* = 64.0 Ia = Dep. Storage (Above)
 (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
 THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```

-----
| ADD HYD ( 0048) |
| 1 + 2 = 3 |
-----
      AREA   QPEAK   TPEAK   R.V.
      (ha)   (cms)   (hrs)   (mm)
ID1= 1 ( 0250):  0.93  0.056  6.17  29.10
+ ID2= 2 ( 0251): 16.61  0.048  6.92   3.10
=====
ID = 3 ( 0048):  17.54  0.063  6.67   4.48
  
```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| CALIB |
| NASHYD ( 0121) |
| ID= 1 DT= 5.0 min |
-----
      Area (ha)= 2.40   Curve Number (CN)= 54.0
      Ia (mm)= 23.50   # of Linear Res.(N)= 3.00
      U.H. Tp(hrs)= 0.50
  
```

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

```

-----
      ---- TRANSFORMED HYETOGRAPH ----
      TIME RAIN | TIME RAIN | TIME RAIN | TIME RAIN
      hrs mm/hr | hrs mm/hr | hrs mm/hr | hrs mm/hr
0.083 0.00 | 3.167 1.62 | 6.250 11.77 | 9.33 1.62
0.167 0.00 | 3.250 2.16 | 6.333 11.77 | 9.42 1.62
0.250 1.62 | 3.333 2.16 | 6.417 11.77 | 9.50 1.62
0.333 1.62 | 3.417 2.16 | 6.500 11.77 | 9.58 1.62
0.417 1.62 | 3.500 2.16 | 6.583 11.77 | 9.67 1.62
0.500 1.62 | 3.583 2.16 | 6.667 11.77 | 9.75 1.30
0.583 1.62 | 3.667 2.16 | 6.750 5.18 | 9.83 1.30
0.667 1.62 | 3.750 2.16 | 6.833 5.18 | 9.92 1.30
0.750 0.76 | 3.833 2.16 | 6.917 5.18 | 10.00 1.30
0.833 0.76 | 3.917 2.16 | 7.000 5.18 | 10.08 1.30
0.917 0.76 | 4.000 2.16 | 7.083 5.18 | 10.17 1.30
1.000 0.76 | 4.083 2.16 | 7.167 5.18 | 10.25 1.84
1.083 0.76 | 4.167 2.16 | 7.250 3.46 | 10.33 1.84
1.167 0.76 | 4.250 2.92 | 7.333 3.46 | 10.42 1.84
1.250 1.40 | 4.333 2.92 | 7.417 3.46 | 10.50 1.84
1.333 1.40 | 4.417 2.92 | 7.500 3.46 | 10.58 1.84
1.417 1.40 | 4.500 2.92 | 7.583 3.46 | 10.67 1.84
1.500 1.40 | 4.583 2.92 | 7.667 3.46 | 10.75 1.19
1.583 1.40 | 4.667 2.92 | 7.750 3.02 | 10.83 1.19
1.667 1.40 | 4.750 3.67 | 7.833 3.02 | 10.92 1.19
1.750 1.40 | 4.833 3.67 | 7.917 3.02 | 11.00 1.19
1.833 1.40 | 4.917 3.67 | 8.000 3.02 | 11.08 1.19
1.917 1.40 | 5.000 3.67 | 8.083 3.02 | 11.17 1.19
  
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2.000 1.40 | 5.083 3.67 | 8.167 3.02 | 11.25 1.08
2.083 1.40 | 5.167 3.67 | 8.250 2.38 | 11.33 1.08
2.167 1.40 | 5.250 5.83 | 8.333 2.38 | 11.42 1.08
2.250 1.84 | 5.333 5.83 | 8.417 2.38 | 11.50 1.08
2.333 1.84 | 5.417 5.83 | 8.500 2.38 | 11.58 1.08
2.417 1.84 | 5.500 5.83 | 8.583 2.38 | 11.67 1.08
2.500 1.84 | 5.583 5.83 | 8.667 2.38 | 11.75 1.08
2.583 1.84 | 5.667 5.83 | 8.750 2.48 | 11.83 1.08
2.667 1.84 | 5.750 46.22 | 8.833 2.48 | 11.92 1.08
2.750 1.62 | 5.833 46.22 | 8.917 2.48 | 12.00 1.08
2.833 1.62 | 5.917 46.22 | 9.000 2.48 | 12.08 1.08
2.917 1.62 | 6.000 46.22 | 9.083 2.48 | 12.17 1.08
3.000 1.62 | 6.083 46.22 | 9.167 2.48 |
3.083 1.62 | 6.167 46.22 | 9.250 1.62 |
  
```

Unit Hyd Qpeak (cms)= 0.183

```

PEAK FLOW (cms)= 0.009 (i)
TIME TO PEAK (hrs)= 6.917
RUNOFF VOLUME (mm)= 3.768
TOTAL RAINFALL (mm)= 54.000
RUNOFF COEFFICIENT = 0.070
  
```

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```

-----
| CALIB |
| STANDHYD ( 0120) |
| ID= 1 DT= 5.0 min |
-----
      Area (ha)= 0.82
      Total Imp(%)= 40.00   Dir. Conn.(%)= 40.00
  
```

```

      IMPERVIOUS   PERVIOUS (i)
Surface Area (ha)= 0.33   0.49
Dep. Storage (mm)= 1.00   5.00
Average Slope (%)= 1.00   2.00
Length (m)= 73.80   40.00
Mannings n = 0.013   0.350
  
```

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

```

-----
      ---- TRANSFORMED HYETOGRAPH ----
      TIME RAIN | TIME RAIN | TIME RAIN | TIME RAIN
      hrs mm/hr | hrs mm/hr | hrs mm/hr | hrs mm/hr
0.083 0.00 | 3.167 1.62 | 6.250 11.77 | 9.33 1.62
0.167 0.00 | 3.250 2.16 | 6.333 11.77 | 9.42 1.62
0.250 1.62 | 3.333 2.16 | 6.417 11.77 | 9.50 1.62
0.333 1.62 | 3.417 2.16 | 6.500 11.77 | 9.58 1.62
0.417 1.62 | 3.500 2.16 | 6.583 11.77 | 9.67 1.62
0.500 1.62 | 3.583 2.16 | 6.667 11.77 | 9.75 1.30
  
```

0.583	1.62	3.667	2.16	6.750	5.18	9.83	1.30
0.667	1.62	3.750	2.16	6.833	5.18	9.92	1.30
0.750	0.76	3.833	2.16	6.917	5.18	10.00	1.30
0.833	0.76	3.917	2.16	7.000	5.18	10.08	1.30
0.917	0.76	4.000	2.16	7.083	5.18	10.17	1.30
1.000	0.76	4.083	2.16	7.167	5.18	10.25	1.84
1.083	0.76	4.167	2.16	7.250	3.46	10.33	1.84
1.167	0.76	4.250	2.92	7.333	3.46	10.42	1.84
1.250	1.40	4.333	2.92	7.417	3.46	10.50	1.84
1.333	1.40	4.417	2.92	7.500	3.46	10.58	1.84
1.417	1.40	4.500	2.92	7.583	3.46	10.67	1.84
1.500	1.40	4.583	2.92	7.667	3.46	10.75	1.19
1.583	1.40	4.667	2.92	7.750	3.02	10.83	1.19
1.667	1.40	4.750	3.67	7.833	3.02	10.92	1.19
1.750	1.40	4.833	3.67	7.917	3.02	11.00	1.19
1.833	1.40	4.917	3.67	8.000	3.02	11.08	1.19
1.917	1.40	5.000	3.67	8.083	3.02	11.17	1.19
2.000	1.40	5.083	3.67	8.167	3.02	11.25	1.08
2.083	1.40	5.167	3.67	8.250	2.38	11.33	1.08
2.167	1.40	5.250	5.83	8.333	2.38	11.42	1.08
2.250	1.84	5.333	5.83	8.417	2.38	11.50	1.08
2.333	1.84	5.417	5.83	8.500	2.38	11.58	1.08
2.417	1.84	5.500	5.83	8.583	2.38	11.67	1.08
2.500	1.84	5.583	5.83	8.667	2.38	11.75	1.08
2.583	1.84	5.667	5.83	8.750	2.48	11.83	1.08
2.667	1.84	5.750	46.22	8.833	2.48	11.92	1.08
2.750	1.62	5.833	46.22	8.917	2.48	12.00	1.08
2.833	1.62	5.917	46.22	9.000	2.48	12.08	1.08
2.917	1.62	6.000	46.22	9.083	2.48	12.17	1.08
3.000	1.62	6.083	46.22	9.167	2.48		
3.083	1.62	6.167	46.22	9.250	1.62		

Max.Eff.Inten.(mm/hr)= 46.22 8.08
over (min) 5.00 30.00
Storage Coeff. (min)= 2.90 (ii) 26.52 (ii)
Unit Hyd. Tpeak (min)= 5.00 30.00
Unit Hyd. peak (cms)= 0.28 0.04

TOTALS
PEAK FLOW (cms)= 0.04 0.01 0.046 (iii)
TIME TO PEAK (hrs)= 6.17 6.50 6.17
RUNOFF VOLUME (mm)= 53.00 9.35 26.79
TOTAL RAINFALL (mm)= 54.00 54.00 54.00
RUNOFF COEFFICIENT = 0.98 0.17 0.50

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 55.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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-----
| ADD HYD ( 0009) |
| 1 + 2 = 3 |
-----
ID1= 1 ( 0120): AREA QPEAK TPEAK R.V.
                (ha) (cms) (hrs) (mm)
+ ID2= 2 ( 0121): 0.82 0.046 6.17 26.79
                  2.40 0.009 6.92 3.77
=====
ID = 3 ( 0009): 3.22 0.047 6.17 9.63

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| CALIB |
| NASHYD ( 0111) | Area (ha)= 5.27 Curve Number (CN)= 55.0
| ID= 1 DT= 5.0 min | Ia (mm)= 22.60 # of Linear Res.(N)= 3.00
-----
U.H. Tp(hrs)= 0.39

```

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

```

----- TRANSFORMED HYETOGRAPH -----
TIME RAIN | TIME RAIN | TIME RAIN | TIME RAIN
hrs mm/hr | hrs mm/hr | hrs mm/hr | hrs mm/hr
0.083 0.00 | 3.167 1.62 | 6.250 11.77 | 9.33 1.62
0.167 0.00 | 3.250 2.16 | 6.333 11.77 | 9.42 1.62
0.250 1.62 | 3.333 2.16 | 6.417 11.77 | 9.50 1.62
0.333 1.62 | 3.417 2.16 | 6.500 11.77 | 9.58 1.62
0.417 1.62 | 3.500 2.16 | 6.583 11.77 | 9.67 1.62
0.500 1.62 | 3.583 2.16 | 6.667 11.77 | 9.75 1.30
0.583 1.62 | 3.667 2.16 | 6.750 5.18 | 9.83 1.30
0.667 1.62 | 3.750 2.16 | 6.833 5.18 | 9.92 1.30
0.750 0.76 | 3.833 2.16 | 6.917 5.18 | 10.00 1.30
0.833 0.76 | 3.917 2.16 | 7.000 5.18 | 10.08 1.30
0.917 0.76 | 4.000 2.16 | 7.083 5.18 | 10.17 1.30
1.000 0.76 | 4.083 2.16 | 7.167 5.18 | 10.25 1.84
1.083 0.76 | 4.167 2.16 | 7.250 3.46 | 10.33 1.84
1.167 0.76 | 4.250 2.92 | 7.333 3.46 | 10.42 1.84
1.250 1.40 | 4.333 2.92 | 7.417 3.46 | 10.50 1.84
1.333 1.40 | 4.417 2.92 | 7.500 3.46 | 10.58 1.84
1.417 1.40 | 4.500 2.92 | 7.583 3.46 | 10.67 1.84
1.500 1.40 | 4.583 2.92 | 7.667 3.46 | 10.75 1.19
1.583 1.40 | 4.667 2.92 | 7.750 3.02 | 10.83 1.19
1.667 1.40 | 4.750 3.67 | 7.833 3.02 | 10.92 1.19
1.750 1.40 | 4.833 3.67 | 7.917 3.02 | 11.00 1.19
1.833 1.40 | 4.917 3.67 | 8.000 3.02 | 11.08 1.19
1.917 1.40 | 5.000 3.67 | 8.083 3.02 | 11.17 1.19

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