

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)= 0.516

PEAK FLOW (cms)= 0.024 (i)
 TIME TO PEAK (hrs)= 6.750
 RUNOFF VOLUME (mm)= 4.121
 TOTAL RAINFALL (mm)= 54.000
 RUNOFF COEFFICIENT = 0.076

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

 | CALIB |
 | STANDHYD (0110) | Area (ha)= 1.01
 | ID= 1 DT= 5.0 min | Total Imp(%)= 39.00 Dir. Conn.(%)= 39.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.39	0.62
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	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	8.08
over (min)	5.00	30.00
Storage Coeff. (min)=	3.09 (ii)	26.71 (ii)
Unit Hyd. Tpeak (min)=	5.00	30.00
Unit Hyd. peak (cms)=	0.27	0.04

TOTALS

PEAK FLOW (cms)=	0.05	0.01	0.055 (iii)
TIME TO PEAK (hrs)=	6.17	6.50	6.17
RUNOFF VOLUME (mm)=	53.00	9.35	26.36
TOTAL RAINFALL (mm)=	54.00	54.00	54.00
RUNOFF COEFFICIENT =	0.98	0.17	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 ( 0006) |
| 1 + 2 = 3 |
-----
      AREA   QPEAK   TPEAK   R.V.
      (ha)   (cms)   (hrs)   (mm)
ID1= 1 ( 0110):  1.01  0.055  6.17  26.36
+ ID2= 2 ( 0111):  5.27  0.024  6.75   4.12
=====
ID = 3 ( 0006):  6.28  0.063  6.17   7.70
  
```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| CALIB |
| NASHYD ( 0141) |
| ID= 1 DT= 5.0 min |
-----
      Area (ha)= 7.22   Curve Number (CN)= 64.0
      Ia (mm)= 15.20  # of Linear Res.(N)= 3.00
      U.H. Tp(hrs)= 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 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)= 0.627

```

PEAK FLOW (cms)= 0.077 (i)
TIME TO PEAK (hrs)= 6.667
RUNOFF VOLUME (mm)= 8.286
TOTAL RAINFALL (mm)= 54.000
RUNOFF COEFFICIENT = 0.153
  
```

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

```

-----
| CALIB |
| STANDHYD ( 0140) |
| ID= 1 DT= 5.0 min |
-----
      Area (ha)= 0.76
      Total Imp(%)= 38.00   Dir. Conn.(%)= 38.00
  
```

```

      IMPERVIOUS   PERVIOUS (i)
Surface Area (ha)= 0.29   0.47
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 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)= 2.84 (ii) 26.46 (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 0.041 (iii)
TIME TO PEAK (hrs)= 6.17 6.50 6.17
RUNOFF VOLUME (mm)= 53.00 9.35 25.92
TOTAL RAINFALL (mm)= 54.00 54.00 54.00
RUNOFF COEFFICIENT = 0.98 0.17 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 ( 0015) |
| 1 + 2 = 3 |
-----
ID1= 1 ( 0140): AREA QPEAK TPEAK R.V.
                (ha) (cms) (hrs) (mm)
+ ID2= 2 ( 0141): 0.76 0.041 6.17 25.92
                  7.22 0.077 6.67 8.29
=====
ID = 3 ( 0015): 7.98 0.092 6.67 9.96

```

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
-----
U.H. Tp(hrs)= 0.17

```

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		

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)= 3.161

PEAK FLOW (cms)= 0.288 (i)
 TIME TO PEAK (hrs)= 6.250
 RUNOFF VOLUME (mm)= 9.249
 TOTAL RAINFALL (mm)= 54.000
 RUNOFF COEFFICIENT = 0.171

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

 | CALIB |
 | STANDHYD (0150) | Area (ha)= 1.35
 | ID= 1 DT= 5.0 min | Total Imp(%)= 39.00 Dir. Conn.(%)= 39.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.53	0.82
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	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	8.08
over (min)	5.00	30.00
Storage Coeff. (min)=	3.37 (ii)	26.99 (ii)
Unit Hyd. Tpeak (min)=	5.00	30.00
Unit Hyd. peak (cms)=	0.26	0.04

TOTALS

PEAK FLOW (cms)=	0.07	0.01	0.074 (iii)
TIME TO PEAK (hrs)=	6.17	6.50	6.17
RUNOFF VOLUME (mm)=	53.00	9.35	26.36
TOTAL RAINFALL (mm)=	54.00	54.00	54.00
RUNOFF COEFFICIENT =	0.98	0.17	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 |
-----
      AREA   QPEAK   TPEAK   R.V.
      (ha)   (cms)   (hrs)   (mm)
ID1= 1 ( 0150):  1.35  0.074  6.17  26.36
+ ID2= 2 ( 0151): 14.07  0.288  6.25   9.25
=====
ID = 3 ( 0018): 15.42  0.356  6.17  10.75
  
```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| 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)= 1.23
  
```

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 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)= 1.113

```

PEAK FLOW (cms)= 0.138 (i)
TIME TO PEAK (hrs)= 7.833
RUNOFF VOLUME (mm)= 5.944
TOTAL RAINFALL (mm)= 54.000
RUNOFF COEFFICIENT = 0.110
  
```

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

```

-----
| CALIB |
| STANDHYD ( 0260) |
| ID= 1 DT= 5.0 min |
-----
      Area (ha)= 3.40
      Total Imp(%)= 40.00   Dir. Conn.(%)= 40.00
  
```

```

      IMPERVIOUS   PERVIOUS (i)
Surface Area (ha)= 1.36   2.04
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 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 18.20
over (min) 5.00 25.00
Storage Coeff. (min)= 4.45 (ii) 21.52 (ii)
Unit Hyd. Tpeak (min)= 5.00 25.00
Unit Hyd. peak (cms)= 0.23 0.05

TOTALS
PEAK FLOW (cms)= 0.17 0.06 0.221 (iii)
TIME TO PEAK (hrs)= 6.17 6.42 6.17
RUNOFF VOLUME (mm)= 53.00 18.58 32.35
TOTAL RAINFALL (mm)= 54.00 54.00 54.00
RUNOFF COEFFICIENT = 0.98 0.34 0.60

***** 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 |
-----
ID1= 1 ( 0260): AREA QPEAK TPEAK R.V.
                (ha) (cms) (hrs) (mm)
+ ID2= 2 ( 0261): 3.40 0.221 6.17 32.35
                  35.85 0.138 7.83 5.94
=====
ID = 3 ( 0051): 39.25 0.229 6.17 8.23

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| CALIB |
| NASHYD ( 0101) | Area (ha)= 7.90 Curve Number (CN)= 62.0
| ID= 1 DT= 5.0 min | Ia (mm)= 16.60 # of Linear Res.(N)= 3.00
-----
U.H. Tp(hrs)= 0.34

```

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)= 0.887

PEAK FLOW (cms)= 0.081 (i)
 TIME TO PEAK (hrs)= 6.500
 RUNOFF VOLUME (mm)= 7.243
 TOTAL RAINFALL (mm)= 54.000
 RUNOFF COEFFICIENT = 0.134

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

 | CALIB |
 | STANDHYD (0100) | Area (ha)= 0.91
 | ID= 1 DT= 5.0 min | Total Imp(%)= 62.00 Dir. Conn.(%)= 62.00

	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	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 13.20
 over (min) 5.00 25.00
 Storage Coeff. (min)= 2.99 (ii) 22.74 (ii)
 Unit Hyd. Tpeak (min)= 5.00 25.00
 Unit Hyd. peak (cms)= 0.28 0.05

TOTALS

PEAK FLOW (cms)= 0.07 0.01 0.078 (iii)
 TIME TO PEAK (hrs)= 6.17 6.42 6.17
 RUNOFF VOLUME (mm)= 53.00 13.79 38.08
 TOTAL RAINFALL (mm)= 54.00 54.00 54.00
 RUNOFF COEFFICIENT = 0.98 0.26 0.71

***** 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  0.078  6.17  38.08
+ ID2= 2 ( 0101):  7.90  0.081  6.50   7.24
=====
ID = 3 ( 0003):  8.81  0.125  6.17  10.43
  
```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| CALIB |
| NASHYD ( 0231) |
| ID= 1 DT= 5.0 min |
-----
      Area (ha)= 33.58   Curve Number (CN)= 59.0
      Ia (mm)= 18.50   # of Linear Res.(N)= 3.00
      U.H. Tp(hrs)= 0.29
  
```

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)= 4.423

```

PEAK FLOW (cms)= 0.289 (i)
TIME TO PEAK (hrs)= 6.417
RUNOFF VOLUME (mm)= 5.942
TOTAL RAINFALL (mm)= 54.000
RUNOFF COEFFICIENT = 0.110
  
```

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

```

-----
| CALIB |
| STANDHYD ( 0230) |
| ID= 1 DT= 5.0 min |
-----
      Area (ha)= 3.07
      Total Imp(%)= 58.00   Dir. Conn.(%)= 58.00
  
```

```

      IMPERVIOUS   PERVIOUS (i)
Surface Area (ha)= 1.78   1.29
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 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 10.30
over (min) 5.00 30.00
Storage Coeff. (min)= 4.31 (ii) 25.75 (ii)
Unit Hyd. Tpeak (min)= 5.00 30.00
Unit Hyd. peak (cms)= 0.23 0.04

TOTALS
PEAK FLOW (cms)= 0.23 0.02 0.242 (iii)
TIME TO PEAK (hrs)= 6.17 6.50 6.17
RUNOFF VOLUME (mm)= 53.00 11.73 35.66
TOTAL RAINFALL (mm)= 54.00 54.00
RUNOFF COEFFICIENT = 0.98 0.22 0.66

***** 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.

```

-----
| ADD HYD ( 0042) |
| 1 + 2 = 3 |
-----
ID1= 1 ( 0230): AREA QPEAK TPEAK R.V.
                (ha) (cms) (hrs) (mm)
+ ID2= 2 ( 0231): 33.58 0.289 6.42 5.94
=====
ID = 3 ( 0042): 36.65 0.423 6.17 8.43

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| CALIB |
| NASHYD ( 0221) | Area (ha)= 14.91 Curve Number (CN)= 58.0
| ID= 1 DT= 5.0 min | Ia (mm)= 19.10 # 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		

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)= 1.424

PEAK FLOW (cms)= 0.101 (i)
 TIME TO PEAK (hrs)= 6.667
 RUNOFF VOLUME (mm)= 5.565
 TOTAL RAINFALL (mm)= 54.000
 RUNOFF COEFFICIENT = 0.103

(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

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	45.00
over (min)	5.00	5.00
Storage Coeff. (min)=	2.96 (ii)	4.83 (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	0.113 (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 ( 0039) |
| 1 + 2 = 3 |
-----
      AREA   QPEAK   TPEAK   R.V.
      (ha)   (cms)   (hrs)   (mm)
ID1= 1 ( 0220):  0.88  0.113  6.17  52.91
+ ID2= 2 ( 0221): 14.91  0.101  6.67   5.57
=====
ID = 3 ( 0039): 15.79  0.153  6.17   8.20
  
```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| CALIB |
| NASHYD ( 0161) |
| ID= 1 DT= 5.0 min |
-----
      Area (ha)= 131.28   Curve Number (CN)= 75.0
      Ia (mm)= 8.60     # of Linear Res.(N)= 3.00
      U.H. Tp(hrs)= 0.94
  
```

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)= 5.334

```

PEAK FLOW (cms)= 1.884 (i)
TIME TO PEAK (hrs)= 7.167
RUNOFF VOLUME (mm)= 15.847
TOTAL RAINFALL (mm)= 54.000
RUNOFF COEFFICIENT = 0.293
  
```

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

```

-----
| CALIB |
| STANDHYD ( 0160) |
| ID= 1 DT= 5.0 min |
-----
      Area (ha)= 3.05
      Total Imp(%)= 39.00   Dir. Conn.(%)= 39.00
  
```

```

      IMPERVIOUS   PERVIOUS (i)
Surface Area (ha)= 1.19   1.86
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 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)= 4.30 (ii) 27.92 (ii)
Unit Hyd. Tpeak (min)= 5.00 30.00
Unit Hyd. peak (cms)= 0.23 0.04

TOTALS
PEAK FLOW (cms)= 0.15 0.02 0.167 (iii)
TIME TO PEAK (hrs)= 6.17 6.50 6.17
RUNOFF VOLUME (mm)= 53.00 9.35 26.37
TOTAL RAINFALL (mm)= 54.00 54.00 54.00
RUNOFF COEFFICIENT = 0.98 0.17 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 ( 0021) |
| 1 + 2 = 3 |
-----
ID1= 1 ( 0160): AREA QPEAK TPEAK R.V.
                 (ha) (cms) (hrs) (mm)
+ ID2= 2 ( 0161): 3.05 0.167 6.17 26.37
                  131.28 1.884 7.17 15.85
=====
ID = 3 ( 0021): 134.33 1.916 7.17 16.09

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| CALIB |
| NASHYD ( 0271) | Area (ha)= 26.76 Curve Number (CN)= 60.0
| ID= 1 DT= 5.0 min | Ia (mm)= 18.70 # of Linear Res.(N)= 3.00
-----
U.H. Tp(hrs)= 0.22

```

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)= 4.646

PEAK FLOW (cms)= 0.274 (i)
 TIME TO PEAK (hrs)= 6.333
 RUNOFF VOLUME (mm)= 6.081
 TOTAL RAINFALL (mm)= 54.000
 RUNOFF COEFFICIENT = 0.113

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

 | CALIB |
 | STANDHYD (0270) | Area (ha)= 3.95
 | ID= 1 DT= 5.0 min | Total Imp(%)= 55.00 Dir. Conn.(%)= 55.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	2.17	1.78
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 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

Max.Eff.Inten.(mm/hr)=	46.22	8.66
over (min)	5.00	30.00
Storage Coeff. (min)=	4.65 (ii)	27.63 (ii)
Unit Hyd. Tpeak (min)=	5.00	30.00
Unit Hyd. peak (cms)=	0.22	0.04

TOTALS

PEAK FLOW (cms)=	0.28	0.03	0.293 (iii)
TIME TO PEAK (hrs)=	6.17	6.50	6.17
RUNOFF VOLUME (mm)=	53.00	9.98	33.64
TOTAL RAINFALL (mm)=	54.00	54.00	54.00
RUNOFF COEFFICIENT =	0.98	0.18	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 ( 0054) |
| 1 + 2 = 3 |
-----
          AREA    QPEAK    TPEAK    R.V.
          (ha)    (cms)    (hrs)    (mm)
ID1= 1 ( 0270):    3.95    0.293    6.17    33.64
+ ID2= 2 ( 0271):    26.76    0.274    6.33    6.08
=====
ID = 3 ( 0054):    30.71    0.511    6.17    9.63

```

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
  V  V  I  SSSSS  UUUUU  A  A  LLLLL

000  TTTTT  TTTTT  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  0
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\b5791b03-420a-41ab-984f-bb3a452da3b5\s

Summary filename:

C:\Users\caeh076182\AppData\Local\Civica\XH5\18e334db-11e6-4c2c-9e9b-68ade393f174\b5791b03-420a-41ab-984f-bb3a452da3b5\s

DATE: 12-14-2022

TIME: 03:30:14

USER:

COMMENTS: _____

```

-----
*****
** SIMULATION : 12SCS005 **
*****

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-----
| READ STORM | Filename: C:\Users\caeh076182\AppData
|             |   ata\Local\Temp\
|             |   396a18b2-a47a-4edb-9128-76c3e2947350\2ac052e1
| Ptotal= 68.40 mm | Comments: 12SCS005
-----

```

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	2.74	6.50	14.91	9.67	2.05
0.33	2.05	3.50	2.74	6.67	14.91	9.83	1.64
0.50	2.05	3.67	2.74	6.83	6.57	10.00	1.64
0.67	2.05	3.83	2.74	7.00	6.57	10.17	1.64
0.83	0.96	4.00	2.74	7.17	6.57	10.33	2.33
1.00	0.96	4.17	2.74	7.33	4.38	10.50	2.33
1.17	0.96	4.33	3.69	7.50	4.38	10.67	2.33
1.33	1.78	4.50	3.69	7.67	4.38	10.83	1.50
1.50	1.78	4.67	3.69	7.83	3.83	11.00	1.50
1.67	1.78	4.83	4.65	8.00	3.83	11.17	1.50
1.83	1.78	5.00	4.65	8.17	3.83	11.33	1.37
2.00	1.78	5.17	4.65	8.33	3.01	11.50	1.37
2.17	1.78	5.33	7.39	8.50	3.01	11.67	1.37
2.33	2.33	5.50	7.39	8.67	3.01	11.83	1.37
2.50	2.33	5.67	7.39	8.83	3.15	12.00	1.37
2.67	2.33	5.83	58.55	9.00	3.15	12.17	1.37
2.83	2.05	6.00	58.55	9.17	3.15		
3.00	2.05	6.17	58.55	9.33	2.05		
3.17	2.05	6.33	14.91	9.50	2.05		

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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.

(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	2.05	6.250	14.91	9.33	2.05
0.167	0.00	3.250	2.74	6.333	14.91	9.42	2.05
0.250	2.05	3.333	2.74	6.417	14.91	9.50	2.05
0.333	2.05	3.417	2.74	6.500	14.91	9.58	2.05
0.417	2.05	3.500	2.74	6.583	14.91	9.67	2.05
0.500	2.05	3.583	2.74	6.667	14.91	9.75	1.64
0.583	2.05	3.667	2.74	6.750	6.57	9.83	1.64
0.667	2.05	3.750	2.74	6.833	6.57	9.92	1.64
0.750	0.96	3.833	2.74	6.917	6.57	10.00	1.64
0.833	0.96	3.917	2.74	7.000	6.57	10.08	1.64
0.917	0.96	4.000	2.74	7.083	6.57	10.17	1.64
1.000	0.96	4.083	2.74	7.167	6.57	10.25	2.33
1.083	0.96	4.167	2.74	7.250	4.38	10.33	2.33
1.167	0.96	4.250	3.69	7.333	4.38	10.42	2.33
1.250	1.78	4.333	3.69	7.417	4.38	10.50	2.33
1.333	1.78	4.417	3.69	7.500	4.38	10.58	2.33
1.417	1.78	4.500	3.69	7.583	4.38	10.67	2.33
1.500	1.78	4.583	3.69	7.667	4.38	10.75	1.50
1.583	1.78	4.667	3.69	7.750	3.83	10.83	1.50
1.667	1.78	4.750	4.65	7.833	3.83	10.92	1.50
1.750	1.78	4.833	4.65	7.917	3.83	11.00	1.50
1.833	1.78	4.917	4.65	8.000	3.83	11.08	1.50
1.917	1.78	5.000	4.65	8.083	3.83	11.17	1.50
2.000	1.78	5.083	4.65	8.167	3.83	11.25	1.37
2.083	1.78	5.167	4.65	8.250	3.01	11.33	1.37
2.167	1.78	5.250	7.39	8.333	3.01	11.42	1.37
2.250	2.33	5.333	7.39	8.417	3.01	11.50	1.37
2.333	2.33	5.417	7.39	8.500	3.01	11.58	1.37
2.417	2.33	5.500	7.39	8.583	3.01	11.67	1.37
2.500	2.33	5.583	7.39	8.667	3.01	11.75	1.37
2.583	2.33	5.667	7.39	8.750	3.15	11.83	1.37
2.667	2.33	5.750	58.55	8.833	3.15	11.92	1.37
2.750	2.05	5.833	58.55	8.917	3.15	12.00	1.37
2.833	2.05	5.917	58.55	9.000	3.15	12.08	1.37
2.917	2.05	6.000	58.55	9.083	3.15	12.17	1.37
3.000	2.05	6.083	58.55	9.167	3.15		
3.083	2.05	6.167	58.55	9.250	2.05		

Unit Hyd Qpeak (cms)= 1.073

PEAK FLOW (cms)= 0.124 (i)
 TIME TO PEAK (hrs)= 6.667
 RUNOFF VOLUME (mm)= 8.683
 TOTAL RAINFALL (mm)= 68.400
 RUNOFF COEFFICIENT = 0.127

CALIB			
STANDHYD (0240)		Area (ha)=	0.88
ID= 1 DT= 5.0 min		Total Imp(%)=	44.00 Dir. Conn.(%)= 44.00

	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

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	2.05	6.250	14.91	9.33	2.05
0.167	0.00	3.250	2.74	6.333	14.91	9.42	2.05
0.250	2.05	3.333	2.74	6.417	14.91	9.50	2.05
0.333	2.05	3.417	2.74	6.500	14.91	9.58	2.05
0.417	2.05	3.500	2.74	6.583	14.91	9.67	2.05
0.500	2.05	3.583	2.74	6.667	14.91	9.75	1.64
0.583	2.05	3.667	2.74	6.750	6.57	9.83	1.64
0.667	2.05	3.750	2.74	6.833	6.57	9.92	1.64
0.750	0.96	3.833	2.74	6.917	6.57	10.00	1.64
0.833	0.96	3.917	2.74	7.000	6.57	10.08	1.64
0.917	0.96	4.000	2.74	7.083	6.57	10.17	1.64
1.000	0.96	4.083	2.74	7.167	6.57	10.25	2.33
1.083	0.96	4.167	2.74	7.250	4.38	10.33	2.33
1.167	0.96	4.250	3.69	7.333	4.38	10.42	2.33
1.250	1.78	4.333	3.69	7.417	4.38	10.50	2.33
1.333	1.78	4.417	3.69	7.500	4.38	10.58	2.33
1.417	1.78	4.500	3.69	7.583	4.38	10.67	2.33
1.500	1.78	4.583	3.69	7.667	4.38	10.75	1.50
1.583	1.78	4.667	3.69	7.750	3.83	10.83	1.50
1.667	1.78	4.750	4.65	7.833	3.83	10.92	1.50
1.750	1.78	4.833	4.65	7.917	3.83	11.00	1.50
1.833	1.78	4.917	4.65	8.000	3.83	11.08	1.50
1.917	1.78	5.000	4.65	8.083	3.83	11.17	1.50
2.000	1.78	5.083	4.65	8.167	3.83	11.25	1.37
2.083	1.78	5.167	4.65	8.250	3.01	11.33	1.37
2.167	1.78	5.250	7.39	8.333	3.01	11.42	1.37
2.250	2.33	5.333	7.39	8.417	3.01	11.50	1.37
2.333	2.33	5.417	7.39	8.500	3.01	11.58	1.37
2.417	2.33	5.500	7.39	8.583	3.01	11.67	1.37
2.500	2.33	5.583	7.39	8.667	3.01	11.75	1.37
2.583	2.33	5.667	7.39	8.750	3.15	11.83	1.37
2.667	2.33	5.750	58.55	8.833	3.15	11.92	1.37
2.750	2.05	5.833	58.55	8.917	3.15	12.00	1.37
2.833	2.05	5.917	58.55	9.000	3.15	12.08	1.37
2.917	2.05	6.000	58.55	9.083	3.15	12.17	1.37
3.000	2.05	6.083	58.55	9.167	3.15		
3.083	2.05	6.167	58.55	9.250	2.05		

2.500	2.33	5.583	7.39	8.667	3.01	11.75	1.37
2.583	2.33	5.667	7.39	8.750	3.15	11.83	1.37
2.667	2.33	5.750	58.55	8.833	3.15	11.92	1.37
2.750	2.05	5.833	58.55	8.917	3.15	12.00	1.37
2.833	2.05	5.917	58.55	9.000	3.15	12.08	1.37
2.917	2.05	6.000	58.55	9.083	3.15	12.17	1.37
3.000	2.05	6.083	58.55	9.167	3.15		
3.083	2.05	6.167	58.55	9.250	2.05		

Max.Eff.Inten.(mm/hr)= 58.55 13.99
over (min) 5.00 25.00
Storage Coeff. (min)= 2.70 (ii) 21.67 (ii)
Unit Hyd. Tpeak (min)= 5.00 25.00
Unit Hyd. peak (cms)= 0.29 0.05

TOTALS
PEAK FLOW (cms)= 0.06 0.01 0.071 (iii)
TIME TO PEAK (hrs)= 6.17 6.42 6.17
RUNOFF VOLUME (mm)= 67.40 14.82 37.94
TOTAL RAINFALL (mm)= 68.40 68.40 68.40
RUNOFF COEFFICIENT = 0.99 0.22 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 (0045)	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
1 + 2 = 3				
ID1= 1 (0240):	0.88	0.071	6.17	37.94
+ ID2= 2 (0241):	11.24	0.124	6.67	8.68
=====				
ID = 3 (0045):	12.12	0.150	6.58	10.81

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	2.05	6.250	14.91	9.33	2.05
0.167	0.00	3.250	2.74	6.333	14.91	9.42	2.05
0.250	2.05	3.333	2.74	6.417	14.91	9.50	2.05
0.333	2.05	3.417	2.74	6.500	14.91	9.58	2.05
0.417	2.05	3.500	2.74	6.583	14.91	9.67	2.05
0.500	2.05	3.583	2.74	6.667	14.91	9.75	1.64
0.583	2.05	3.667	2.74	6.750	6.57	9.83	1.64
0.667	2.05	3.750	2.74	6.833	6.57	9.92	1.64
0.750	0.96	3.833	2.74	6.917	6.57	10.00	1.64
0.833	0.96	3.917	2.74	7.000	6.57	10.08	1.64
0.917	0.96	4.000	2.74	7.083	6.57	10.17	1.64
1.000	0.96	4.083	2.74	7.167	6.57	10.25	2.33
1.083	0.96	4.167	2.74	7.250	4.38	10.33	2.33
1.167	0.96	4.250	3.69	7.333	4.38	10.42	2.33
1.250	1.78	4.333	3.69	7.417	4.38	10.50	2.33
1.333	1.78	4.417	3.69	7.500	4.38	10.58	2.33
1.417	1.78	4.500	3.69	7.583	4.38	10.67	2.33
1.500	1.78	4.583	3.69	7.667	4.38	10.75	1.50
1.583	1.78	4.667	3.69	7.750	3.83	10.83	1.50
1.667	1.78	4.750	4.65	7.833	3.83	10.92	1.50
1.750	1.78	4.833	4.65	7.917	3.83	11.00	1.50
1.833	1.78	4.917	4.65	8.000	3.83	11.08	1.50
1.917	1.78	5.000	4.65	8.083	3.83	11.17	1.50
2.000	1.78	5.083	4.65	8.167	3.83	11.25	1.37
2.083	1.78	5.167	4.65	8.250	3.01	11.33	1.37
2.167	1.78	5.250	7.39	8.333	3.01	11.42	1.37
2.250	2.33	5.333	7.39	8.417	3.01	11.50	1.37
2.333	2.33	5.417	7.39	8.500	3.01	11.58	1.37
2.417	2.33	5.500	7.39	8.583	3.01	11.67	1.37
2.500	2.33	5.583	7.39	8.667	3.01	11.75	1.37
2.583	2.33	5.667	7.39	8.750	3.15	11.83	1.37
2.667	2.33	5.750	58.55	8.833	3.15	11.92	1.37
2.750	2.05	5.833	58.55	8.917	3.15	12.00	1.37
2.833	2.05	5.917	58.55	9.000	3.15	12.08	1.37
2.917	2.05	6.000	58.55	9.083	3.15	12.17	1.37
3.000	2.05	6.083	58.55	9.167	3.15		
3.083	2.05	6.167	58.55	9.250	2.05		

Unit Hyd Qpeak (cms)= 0.641

PEAK FLOW (cms)= 0.180 (i)
TIME TO PEAK (hrs)= 6.500
RUNOFF VOLUME (mm)= 17.703
TOTAL RAINFALL (mm)= 68.400
RUNOFF COEFFICIENT = 0.259

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

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| CALIB |
| STANDHYD ( 0280) | Area (ha)= 0.90
| ID= 1 DT= 5.0 min | Total Imp(%)= 99.00 Dir. Conn.(%)= 99.00
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          IMPERVIOUS   PERVIOUS (i)
Surface Area (ha)= 0.89   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

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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	2.05	6.250	14.91	9.33	2.05
0.167	0.00	3.250	2.74	6.333	14.91	9.42	2.05
0.250	2.05	3.333	2.74	6.417	14.91	9.50	2.05
0.333	2.05	3.417	2.74	6.500	14.91	9.58	2.05
0.417	2.05	3.500	2.74	6.583	14.91	9.67	2.05
0.500	2.05	3.583	2.74	6.667	14.91	9.75	1.64
0.583	2.05	3.667	2.74	6.750	6.57	9.83	1.64
0.667	2.05	3.750	2.74	6.833	6.57	9.92	1.64
0.750	0.96	3.833	2.74	6.917	6.57	10.00	1.64
0.833	0.96	3.917	2.74	7.000	6.57	10.08	1.64
0.917	0.96	4.000	2.74	7.083	6.57	10.17	1.64
1.000	0.96	4.083	2.74	7.167	6.57	10.25	2.33
1.083	0.96	4.167	2.74	7.250	4.38	10.33	2.33
1.167	0.96	4.250	3.69	7.333	4.38	10.42	2.33
1.250	1.78	4.333	3.69	7.417	4.38	10.50	2.33
1.333	1.78	4.417	3.69	7.500	4.38	10.58	2.33
1.417	1.78	4.500	3.69	7.583	4.38	10.67	2.33
1.500	1.78	4.583	3.69	7.667	4.38	10.75	1.50
1.583	1.78	4.667	3.69	7.750	3.83	10.83	1.50
1.667	1.78	4.750	4.65	7.833	3.83	10.92	1.50
1.750	1.78	4.833	4.65	7.917	3.83	11.00	1.50
1.833	1.78	4.917	4.65	8.000	3.83	11.08	1.50
1.917	1.78	5.000	4.65	8.083	3.83	11.17	1.50
2.000	1.78	5.083	4.65	8.167	3.83	11.25	1.37
2.083	1.78	5.167	4.65	8.250	3.01	11.33	1.37
2.167	1.78	5.250	7.39	8.333	3.01	11.42	1.37
2.250	2.33	5.333	7.39	8.417	3.01	11.50	1.37
2.333	2.33	5.417	7.39	8.500	3.01	11.58	1.37
2.417	2.33	5.500	7.39	8.583	3.01	11.67	1.37

2.500	2.33	5.583	7.39	8.667	3.01	11.75	1.37
2.583	2.33	5.667	7.39	8.750	3.15	11.83	1.37
2.667	2.33	5.750	58.55	8.833	3.15	11.92	1.37
2.750	2.05	5.833	58.55	8.917	3.15	12.00	1.37
2.833	2.05	5.917	58.55	9.000	3.15	12.08	1.37
2.917	2.05	6.000	58.55	9.083	3.15	12.17	1.37
3.000	2.05	6.083	58.55	9.167	3.15		
3.083	2.05	6.167	58.55	9.250	2.05		

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Max.Eff.Inten.(mm/hr)= 58.55   57.58
over (min) = 5.00   5.00
Storage Coeff. (min)= 2.72 (ii)   4.42 (ii)
Unit Hyd. Tpeak (min)= 5.00   5.00
Unit Hyd. peak (cms)= 0.29   0.23

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*TOTALS*
PEAK FLOW (cms)= 0.14   0.00   0.146 (iii)
TIME TO PEAK (hrs)= 6.17   6.17   6.17
RUNOFF VOLUME (mm)= 67.40   58.61   67.31
TOTAL RAINFALL (mm)= 68.40   68.40   68.40
RUNOFF COEFFICIENT = 0.99   0.86   0.98

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***** 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.

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-----
| ADD HYD ( 0057) |
| 1 + 2 = 3 |
-----
          AREA   QPEAK   TPEAK   R.V.
          (ha)   (cms)   (hrs)   (mm)
ID1= 1 ( 0280):  0.90  0.146  6.17  67.31
+ ID2= 2 ( 0281):  6.71  0.180  6.50  17.70
=====
ID = 3 ( 0057):  7.61  0.263  6.17  23.57
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NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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| CALIB |
| NASHYD ( 0131) | Area (ha)= 10.63 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)= 0.65

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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	2.05	6.250	14.91	9.33	2.05
0.167	0.00	3.250	2.74	6.333	14.91	9.42	2.05
0.250	2.05	3.333	2.74	6.417	14.91	9.50	2.05
0.333	2.05	3.417	2.74	6.500	14.91	9.58	2.05
0.417	2.05	3.500	2.74	6.583	14.91	9.67	2.05
0.500	2.05	3.583	2.74	6.667	14.91	9.75	1.64
0.583	2.05	3.667	2.74	6.750	6.57	9.83	1.64
0.667	2.05	3.750	2.74	6.833	6.57	9.92	1.64
0.750	0.96	3.833	2.74	6.917	6.57	10.00	1.64
0.833	0.96	3.917	2.74	7.000	6.57	10.08	1.64
0.917	0.96	4.000	2.74	7.083	6.57	10.17	1.64
1.000	0.96	4.083	2.74	7.167	6.57	10.25	2.33
1.083	0.96	4.167	2.74	7.250	4.38	10.33	2.33
1.167	0.96	4.250	3.69	7.333	4.38	10.42	2.33
1.250	1.78	4.333	3.69	7.417	4.38	10.50	2.33
1.333	1.78	4.417	3.69	7.500	4.38	10.58	2.33
1.417	1.78	4.500	3.69	7.583	4.38	10.67	2.33
1.500	1.78	4.583	3.69	7.667	4.38	10.75	1.50
1.583	1.78	4.667	3.69	7.750	3.83	10.83	1.50
1.667	1.78	4.750	4.65	7.833	3.83	10.92	1.50
1.750	1.78	4.833	4.65	7.917	3.83	11.00	1.50
1.833	1.78	4.917	4.65	8.000	3.83	11.08	1.50
1.917	1.78	5.000	4.65	8.083	3.83	11.17	1.50
2.000	1.78	5.083	4.65	8.167	3.83	11.25	1.37
2.083	1.78	5.167	4.65	8.250	3.01	11.33	1.37
2.167	1.78	5.250	7.39	8.333	3.01	11.42	1.37
2.250	2.33	5.333	7.39	8.417	3.01	11.50	1.37
2.333	2.33	5.417	7.39	8.500	3.01	11.58	1.37
2.417	2.33	5.500	7.39	8.583	3.01	11.67	1.37
2.500	2.33	5.583	7.39	8.667	3.01	11.75	1.37
2.583	2.33	5.667	7.39	8.750	3.15	11.83	1.37
2.667	2.33	5.750	58.55	8.833	3.15	11.92	1.37
2.750	2.05	5.833	58.55	8.917	3.15	12.00	1.37
2.833	2.05	5.917	58.55	9.000	3.15	12.08	1.37
2.917	2.05	6.000	58.55	9.083	3.15	12.17	1.37
3.000	2.05	6.083	58.55	9.167	3.15		
3.083	2.05	6.167	58.55	9.250	2.05		

Unit Hyd Qpeak (cms)= 0.625

PEAK FLOW (cms)= 0.086 (i)
 TIME TO PEAK (hrs)= 7.000
 RUNOFF VOLUME (mm)= 8.271
 TOTAL RAINFALL (mm)= 68.400
 RUNOFF COEFFICIENT = 0.121

CALIB			
STANDHYD (0130)	Area (ha)=	1.57	
ID= 1 DT= 5.0 min	Total Imp(%)=	42.00	Dir. Conn.(%)= 42.00

	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

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	2.05	6.250	14.91	9.33	2.05
0.167	0.00	3.250	2.74	6.333	14.91	9.42	2.05
0.250	2.05	3.333	2.74	6.417	14.91	9.50	2.05
0.333	2.05	3.417	2.74	6.500	14.91	9.58	2.05
0.417	2.05	3.500	2.74	6.583	14.91	9.67	2.05
0.500	2.05	3.583	2.74	6.667	14.91	9.75	1.64
0.583	2.05	3.667	2.74	6.750	6.57	9.83	1.64
0.667	2.05	3.750	2.74	6.833	6.57	9.92	1.64
0.750	0.96	3.833	2.74	6.917	6.57	10.00	1.64
0.833	0.96	3.917	2.74	7.000	6.57	10.08	1.64
0.917	0.96	4.000	2.74	7.083	6.57	10.17	1.64
1.000	0.96	4.083	2.74	7.167	6.57	10.25	2.33
1.083	0.96	4.167	2.74	7.250	4.38	10.33	2.33
1.167	0.96	4.250	3.69	7.333	4.38	10.42	2.33
1.250	1.78	4.333	3.69	7.417	4.38	10.50	2.33
1.333	1.78	4.417	3.69	7.500	4.38	10.58	2.33
1.417	1.78	4.500	3.69	7.583	4.38	10.67	2.33
1.500	1.78	4.583	3.69	7.667	4.38	10.75	1.50
1.583	1.78	4.667	3.69	7.750	3.83	10.83	1.50
1.667	1.78	4.750	4.65	7.833	3.83	10.92	1.50
1.750	1.78	4.833	4.65	7.917	3.83	11.00	1.50
1.833	1.78	4.917	4.65	8.000	3.83	11.08	1.50
1.917	1.78	5.000	4.65	8.083	3.83	11.17	1.50
2.000	1.78	5.083	4.65	8.167	3.83	11.25	1.37
2.083	1.78	5.167	4.65	8.250	3.01	11.33	1.37
2.167	1.78	5.250	7.39	8.333	3.01	11.42	1.37
2.250	2.33	5.333	7.39	8.417	3.01	11.50	1.37
2.333	2.33	5.417	7.39	8.500	3.01	11.58	1.37
2.417	2.33	5.500	7.39	8.583	3.01	11.67	1.37
2.500	2.33	5.583	7.39	8.667	3.01	11.75	1.37
2.583	2.33	5.667	7.39	8.750	3.15	11.83	1.37
2.667	2.33	5.750	58.55	8.833	3.15	11.92	1.37
2.750	2.05	5.833	58.55	8.917	3.15	12.00	1.37
2.833	2.05	5.917	58.55	9.000	3.15	12.08	1.37
2.917	2.05	6.000	58.55	9.083	3.15	12.17	1.37
3.000	2.05	6.083	58.55	9.167	3.15		
3.083	2.05	6.167	58.55	9.250	2.05		

2.500	2.33	5.583	7.39	8.667	3.01	11.75	1.37
2.583	2.33	5.667	7.39	8.750	3.15	11.83	1.37
2.667	2.33	5.750	58.55	8.833	3.15	11.92	1.37
2.750	2.05	5.833	58.55	8.917	3.15	12.00	1.37
2.833	2.05	5.917	58.55	9.000	3.15	12.08	1.37
2.917	2.05	6.000	58.55	9.083	3.15	12.17	1.37
3.000	2.05	6.083	58.55	9.167	3.15		
3.083	2.05	6.167	58.55	9.250	2.05		

Max.Eff.Inten.(mm/hr)= 58.55 13.99
over (min) 5.00 25.00
Storage Coeff. (min)= 3.21 (ii) 22.18 (ii)
Unit Hyd. Tpeak (min)= 5.00 25.00
Unit Hyd. peak (cms)= 0.27 0.05

TOTALS
PEAK FLOW (cms)= 0.11 0.02 0.123 (iii)
TIME TO PEAK (hrs)= 6.17 6.42 6.17
RUNOFF VOLUME (mm)= 67.40 14.82 36.90
TOTAL RAINFALL (mm)= 68.40 68.40 68.40
RUNOFF COEFFICIENT = 0.99 0.22 0.54

***** 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	0.123	6.17	36.90
+ ID2= 2 (0131):	10.63	0.086	7.00	8.27
=====				
ID = 3 (0012):	12.20	0.140	6.17	11.95

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB	Area (ha)	Curve Number (CN)
NASHYD (0180)	2.46	56.0
ID= 1 DT= 5.0 min	Ia (mm)= 22.20	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)= 1.36	

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	2.05	6.250	14.91	9.33	2.05
0.167	0.00	3.250	2.74	6.333	14.91	9.42	2.05
0.250	2.05	3.333	2.74	6.417	14.91	9.50	2.05
0.333	2.05	3.417	2.74	6.500	14.91	9.58	2.05
0.417	2.05	3.500	2.74	6.583	14.91	9.67	2.05
0.500	2.05	3.583	2.74	6.667	14.91	9.75	1.64
0.583	2.05	3.667	2.74	6.750	6.57	9.83	1.64
0.667	2.05	3.750	2.74	6.833	6.57	9.92	1.64
0.750	0.96	3.833	2.74	6.917	6.57	10.00	1.64
0.833	0.96	3.917	2.74	7.000	6.57	10.08	1.64
0.917	0.96	4.000	2.74	7.083	6.57	10.17	1.64
1.000	0.96	4.083	2.74	7.167	6.57	10.25	2.33
1.083	0.96	4.167	2.74	7.250	4.38	10.33	2.33
1.167	0.96	4.250	3.69	7.333	4.38	10.42	2.33
1.250	1.78	4.333	3.69	7.417	4.38	10.50	2.33
1.333	1.78	4.417	3.69	7.500	4.38	10.58	2.33
1.417	1.78	4.500	3.69	7.583	4.38	10.67	2.33
1.500	1.78	4.583	3.69	7.667	4.38	10.75	1.50
1.583	1.78	4.667	3.69	7.750	3.83	10.83	1.50
1.667	1.78	4.750	4.65	7.833	3.83	10.92	1.50
1.750	1.78	4.833	4.65	7.917	3.83	11.00	1.50
1.833	1.78	4.917	4.65	8.000	3.83	11.08	1.50
1.917	1.78	5.000	4.65	8.083	3.83	11.17	1.50
2.000	1.78	5.083	4.65	8.167	3.83	11.25	1.37
2.083	1.78	5.167	4.65	8.250	3.01	11.33	1.37
2.167	1.78	5.250	7.39	8.333	3.01	11.42	1.37
2.250	2.33	5.333	7.39	8.417	3.01	11.50	1.37
2.333	2.33	5.417	7.39	8.500	3.01	11.58	1.37
2.417	2.33	5.500	7.39	8.583	3.01	11.67	1.37
2.500	2.33	5.583	7.39	8.667	3.01	11.75	1.37
2.583	2.33	5.667	7.39	8.750	3.15	11.83	1.37
2.667	2.33	5.750	58.55	8.833	3.15	11.92	1.37
2.750	2.05	5.833	58.55	8.917	3.15	12.00	1.37
2.833	2.05	5.917	58.55	9.000	3.15	12.08	1.37
2.917	2.05	6.000	58.55	9.083	3.15	12.17	1.37
3.000	2.05	6.083	58.55	9.167	3.15		
3.083	2.05	6.167	58.55	9.250	2.05		

Unit Hyd Qpeak (cms)= 0.069

PEAK FLOW (cms)= 0.013 (i)
TIME TO PEAK (hrs)= 8.000
RUNOFF VOLUME (mm)= 8.683
TOTAL RAINFALL (mm)= 68.400
RUNOFF COEFFICIENT = 0.127

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

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| CALIB |
| STANDHYD ( 0181) | Area (ha)= 1.21
| ID= 1 DT= 5.0 min | Total Imp(%)= 40.00 Dir. Conn.(%)= 40.00
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          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

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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	2.05	6.250	14.91	9.33	2.05
0.167	0.00	3.250	2.74	6.333	14.91	9.42	2.05
0.250	2.05	3.333	2.74	6.417	14.91	9.50	2.05
0.333	2.05	3.417	2.74	6.500	14.91	9.58	2.05
0.417	2.05	3.500	2.74	6.583	14.91	9.67	2.05
0.500	2.05	3.583	2.74	6.667	14.91	9.75	1.64
0.583	2.05	3.667	2.74	6.750	6.57	9.83	1.64
0.667	2.05	3.750	2.74	6.833	6.57	9.92	1.64
0.750	0.96	3.833	2.74	6.917	6.57	10.00	1.64
0.833	0.96	3.917	2.74	7.000	6.57	10.08	1.64
0.917	0.96	4.000	2.74	7.083	6.57	10.17	1.64
1.000	0.96	4.083	2.74	7.167	6.57	10.25	2.33
1.083	0.96	4.167	2.74	7.250	4.38	10.33	2.33
1.167	0.96	4.250	3.69	7.333	4.38	10.42	2.33
1.250	1.78	4.333	3.69	7.417	4.38	10.50	2.33
1.333	1.78	4.417	3.69	7.500	4.38	10.58	2.33
1.417	1.78	4.500	3.69	7.583	4.38	10.67	2.33
1.500	1.78	4.583	3.69	7.667	4.38	10.75	1.50
1.583	1.78	4.667	3.69	7.750	3.83	10.83	1.50
1.667	1.78	4.750	4.65	7.833	3.83	10.92	1.50
1.750	1.78	4.833	4.65	7.917	3.83	11.00	1.50
1.833	1.78	4.917	4.65	8.000	3.83	11.08	1.50
1.917	1.78	5.000	4.65	8.083	3.83	11.17	1.50
2.000	1.78	5.083	4.65	8.167	3.83	11.25	1.37
2.083	1.78	5.167	4.65	8.250	3.01	11.33	1.37
2.167	1.78	5.250	7.39	8.333	3.01	11.42	1.37
2.250	2.33	5.333	7.39	8.417	3.01	11.50	1.37
2.333	2.33	5.417	7.39	8.500	3.01	11.58	1.37
2.417	2.33	5.500	7.39	8.583	3.01	11.67	1.37

2.500	2.33	5.583	7.39	8.667	3.01	11.75	1.37
2.583	2.33	5.667	7.39	8.750	3.15	11.83	1.37
2.667	2.33	5.750	58.55	8.833	3.15	11.92	1.37
2.750	2.05	5.833	58.55	8.917	3.15	12.00	1.37
2.833	2.05	5.917	58.55	9.000	3.15	12.08	1.37
2.917	2.05	6.000	58.55	9.083	3.15	12.17	1.37
3.000	2.05	6.083	58.55	9.167	3.15		
3.083	2.05	6.167	58.55	9.250	2.05		

```

Max.Eff.Inten.(mm/hr)= 58.55   13.99
over (min) = 5.00   25.00
Storage Coeff. (min)= 2.97 (ii)   21.94 (ii)
Unit Hyd. Tpeak (min)= 5.00   25.00
Unit Hyd. peak (cms)= 0.28   0.05

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TOTALS

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PEAK FLOW (cms)= 0.08   0.02   0.091 (iii)
TIME TO PEAK (hrs)= 6.17   6.42   6.17
RUNOFF VOLUME (mm)= 67.40   14.82   35.84
TOTAL RAINFALL (mm)= 68.40   68.40   68.40
RUNOFF COEFFICIENT = 0.99   0.22   0.52

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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 ( 0027) |
| 1 + 2 = 3 |
-----
          AREA   QPEAK   TPEAK   R.V.
          (ha)   (cms)   (hrs)   (mm)
ID1= 1 ( 0180): 2.46  0.013  8.00  8.68
+ ID2= 2 ( 0181): 1.21  0.091  6.17  35.84
=====
ID = 3 ( 0027): 3.67  0.092  6.17  17.64
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NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| CALIB |
| NASHYD ( 0171) | Area (ha)= 32.39 Curve Number (CN)= 60.0
| ID= 1 DT= 5.0 min | Ia (mm)= 18.20 # of Linear Res.(N)= 3.00
-----
          U.H. Tp(hrs)= 0.91

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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	2.05	6.250	14.91	9.33	2.05
0.167	0.00	3.250	2.74	6.333	14.91	9.42	2.05
0.250	2.05	3.333	2.74	6.417	14.91	9.50	2.05
0.333	2.05	3.417	2.74	6.500	14.91	9.58	2.05
0.417	2.05	3.500	2.74	6.583	14.91	9.67	2.05
0.500	2.05	3.583	2.74	6.667	14.91	9.75	1.64
0.583	2.05	3.667	2.74	6.750	6.57	9.83	1.64
0.667	2.05	3.750	2.74	6.833	6.57	9.92	1.64
0.750	0.96	3.833	2.74	6.917	6.57	10.00	1.64
0.833	0.96	3.917	2.74	7.000	6.57	10.08	1.64
0.917	0.96	4.000	2.74	7.083	6.57	10.17	1.64
1.000	0.96	4.083	2.74	7.167	6.57	10.25	2.33
1.083	0.96	4.167	2.74	7.250	4.38	10.33	2.33
1.167	0.96	4.250	3.69	7.333	4.38	10.42	2.33
1.250	1.78	4.333	3.69	7.417	4.38	10.50	2.33
1.333	1.78	4.417	3.69	7.500	4.38	10.58	2.33
1.417	1.78	4.500	3.69	7.583	4.38	10.67	2.33
1.500	1.78	4.583	3.69	7.667	4.38	10.75	1.50
1.583	1.78	4.667	3.69	7.750	3.83	10.83	1.50
1.667	1.78	4.750	4.65	7.833	3.83	10.92	1.50
1.750	1.78	4.833	4.65	7.917	3.83	11.00	1.50
1.833	1.78	4.917	4.65	8.000	3.83	11.08	1.50
1.917	1.78	5.000	4.65	8.083	3.83	11.17	1.50
2.000	1.78	5.083	4.65	8.167	3.83	11.25	1.37
2.083	1.78	5.167	4.65	8.250	3.01	11.33	1.37
2.167	1.78	5.250	7.39	8.333	3.01	11.42	1.37
2.250	2.33	5.333	7.39	8.417	3.01	11.50	1.37
2.333	2.33	5.417	7.39	8.500	3.01	11.58	1.37
2.417	2.33	5.500	7.39	8.583	3.01	11.67	1.37
2.500	2.33	5.583	7.39	8.667	3.01	11.75	1.37
2.583	2.33	5.667	7.39	8.750	3.15	11.83	1.37
2.667	2.33	5.750	58.55	8.833	3.15	11.92	1.37
2.750	2.05	5.833	58.55	8.917	3.15	12.00	1.37
2.833	2.05	5.917	58.55	9.000	3.15	12.08	1.37
2.917	2.05	6.000	58.55	9.083	3.15	12.17	1.37
3.000	2.05	6.083	58.55	9.167	3.15		
3.083	2.05	6.167	58.55	9.250	2.05		

Unit Hyd Qpeak (cms)= 1.359

PEAK FLOW (cms)= 0.315 (i)

TIME TO PEAK (hrs)= 7.250

RUNOFF VOLUME (mm)= 11.479

TOTAL RAINFALL (mm)= 68.400

RUNOFF COEFFICIENT = 0.168

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

ADD HYD (0062)		AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3		(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0171):		32.39	0.315	7.25	11.48
+ ID2= 2 (0027):		3.67	0.092	6.17	17.64
=====					
ID = 3 (0062):		36.06	0.340	7.17	12.11

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB		Area (ha)=	3.33
STANDHYD (0170)		Total Imp(%)=	42.00
ID= 1 DT= 5.0 min		Dir. Conn.(%)=	42.00

	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	2.05	6.250	14.91	9.33	2.05
0.167	0.00	3.250	2.74	6.333	14.91	9.42	2.05
0.250	2.05	3.333	2.74	6.417	14.91	9.50	2.05
0.333	2.05	3.417	2.74	6.500	14.91	9.58	2.05
0.417	2.05	3.500	2.74	6.583	14.91	9.67	2.05
0.500	2.05	3.583	2.74	6.667	14.91	9.75	1.64
0.583	2.05	3.667	2.74	6.750	6.57	9.83	1.64
0.667	2.05	3.750	2.74	6.833	6.57	9.92	1.64
0.750	0.96	3.833	2.74	6.917	6.57	10.00	1.64
0.833	0.96	3.917	2.74	7.000	6.57	10.08	1.64
0.917	0.96	4.000	2.74	7.083	6.57	10.17	1.64
1.000	0.96	4.083	2.74	7.167	6.57	10.25	2.33
1.083	0.96	4.167	2.74	7.250	4.38	10.33	2.33
1.167	0.96	4.250	3.69	7.333	4.38	10.42	2.33
1.250	1.78	4.333	3.69	7.417	4.38	10.50	2.33
1.333	1.78	4.417	3.69	7.500	4.38	10.58	2.33
1.417	1.78	4.500	3.69	7.583	4.38	10.67	2.33

1.500	1.78	4.583	3.69	7.667	4.38	10.75	1.50
1.583	1.78	4.667	3.69	7.750	3.83	10.83	1.50
1.667	1.78	4.750	4.65	7.833	3.83	10.92	1.50
1.750	1.78	4.833	4.65	7.917	3.83	11.00	1.50
1.833	1.78	4.917	4.65	8.000	3.83	11.08	1.50
1.917	1.78	5.000	4.65	8.083	3.83	11.17	1.50
2.000	1.78	5.083	4.65	8.167	3.83	11.25	1.37
2.083	1.78	5.167	4.65	8.250	3.01	11.33	1.37
2.167	1.78	5.250	7.39	8.333	3.01	11.42	1.37
2.250	2.33	5.333	7.39	8.417	3.01	11.50	1.37
2.333	2.33	5.417	7.39	8.500	3.01	11.58	1.37
2.417	2.33	5.500	7.39	8.583	3.01	11.67	1.37
2.500	2.33	5.583	7.39	8.667	3.01	11.75	1.37
2.583	2.33	5.667	7.39	8.750	3.15	11.83	1.37
2.667	2.33	5.750	58.55	8.833	3.15	11.92	1.37
2.750	2.05	5.833	58.55	8.917	3.15	12.00	1.37
2.833	2.05	5.917	58.55	9.000	3.15	12.08	1.37
2.917	2.05	6.000	58.55	9.083	3.15	12.17	1.37
3.000	2.05	6.083	58.55	9.167	3.15		
3.083	2.05	6.167	58.55	9.250	2.05		

Max.Eff.Inten.(mm/hr)= 58.55 13.99
over (min) 5.00 25.00
Storage Coeff. (min)= 4.02 (ii) 22.99 (ii)
Unit Hyd. Tpeak (min)= 5.00 25.00
Unit Hyd. peak (cms)= 0.24 0.05

PEAK FLOW (cms)= 0.23 0.05
TIME TO PEAK (hrs)= 6.17 6.42
RUNOFF VOLUME (mm)= 67.40 14.82 36.90
TOTAL RAINFALL (mm)= 68.40 68.40 68.40
RUNOFF COEFFICIENT = 0.99 0.22 0.54

TOTALS
0.259 (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 (0024)				
1 + 2 = 3				
	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0170):	3.33	0.259	6.17	36.90
+ ID2= 2 (0062):	36.06	0.340	7.17	12.11
=====				

ID = 3 (0024): 39.39 0.401 6.17 14.20

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
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.05	6.250	14.91	9.33	2.05
0.167	0.00	3.250	2.74	6.333	14.91	9.42	2.05
0.250	2.05	3.333	2.74	6.417	14.91	9.50	2.05
0.333	2.05	3.417	2.74	6.500	14.91	9.58	2.05
0.417	2.05	3.500	2.74	6.583	14.91	9.67	2.05
0.500	2.05	3.583	2.74	6.667	14.91	9.75	1.64
0.583	2.05	3.667	2.74	6.750	6.57	9.83	1.64
0.667	2.05	3.750	2.74	6.833	6.57	9.92	1.64
0.750	0.96	3.833	2.74	6.917	6.57	10.00	1.64
0.833	0.96	3.917	2.74	7.000	6.57	10.08	1.64
0.917	0.96	4.000	2.74	7.083	6.57	10.17	1.64
1.000	0.96	4.083	2.74	7.167	6.57	10.25	2.33
1.083	0.96	4.167	2.74	7.250	4.38	10.33	2.33
1.167	0.96	4.250	3.69	7.333	4.38	10.42	2.33
1.250	1.78	4.333	3.69	7.417	4.38	10.50	2.33
1.333	1.78	4.417	3.69	7.500	4.38	10.58	2.33
1.417	1.78	4.500	3.69	7.583	4.38	10.67	2.33
1.500	1.78	4.583	3.69	7.667	4.38	10.75	1.50
1.583	1.78	4.667	3.69	7.750	3.83	10.83	1.50
1.667	1.78	4.750	4.65	7.833	3.83	10.92	1.50
1.750	1.78	4.833	4.65	7.917	3.83	11.00	1.50
1.833	1.78	4.917	4.65	8.000	3.83	11.08	1.50
1.917	1.78	5.000	4.65	8.083	3.83	11.17	1.50
2.000	1.78	5.083	4.65	8.167	3.83	11.25	1.37
2.083	1.78	5.167	4.65	8.250	3.01	11.33	1.37
2.167	1.78	5.250	7.39	8.333	3.01	11.42	1.37
2.250	2.33	5.333	7.39	8.417	3.01	11.50	1.37
2.333	2.33	5.417	7.39	8.500	3.01	11.58	1.37
2.417	2.33	5.500	7.39	8.583	3.01	11.67	1.37
2.500	2.33	5.583	7.39	8.667	3.01	11.75	1.37
2.583	2.33	5.667	7.39	8.750	3.15	11.83	1.37
2.667	2.33	5.750	58.55	8.833	3.15	11.92	1.37
2.750	2.05	5.833	58.55	8.917	3.15	12.00	1.37
2.833	2.05	5.917	58.55	9.000	3.15	12.08	1.37

2.917	2.05	6.000	58.55	9.083	3.15	12.17	1.37
3.000	2.05	6.083	58.55	9.167	3.15		
3.083	2.05	6.167	58.55	9.250	2.05		

1.500	1.78	4.583	3.69	7.667	4.38	10.75	1.50
1.583	1.78	4.667	3.69	7.750	3.83	10.83	1.50
1.667	1.78	4.750	4.65	7.833	3.83	10.92	1.50
1.750	1.78	4.833	4.65	7.917	3.83	11.00	1.50
1.833	1.78	4.917	4.65	8.000	3.83	11.08	1.50
1.917	1.78	5.000	4.65	8.083	3.83	11.17	1.50
2.000	1.78	5.083	4.65	8.167	3.83	11.25	1.37
2.083	1.78	5.167	4.65	8.250	3.01	11.33	1.37
2.167	1.78	5.250	7.39	8.333	3.01	11.42	1.37
2.250	2.33	5.333	7.39	8.417	3.01	11.50	1.37
2.333	2.33	5.417	7.39	8.500	3.01	11.58	1.37
2.417	2.33	5.500	7.39	8.583	3.01	11.67	1.37
2.500	2.33	5.583	7.39	8.667	3.01	11.75	1.37
2.583	2.33	5.667	7.39	8.750	3.15	11.83	1.37
2.667	2.33	5.750	58.55	8.833	3.15	11.92	1.37
2.750	2.05	5.833	58.55	8.917	3.15	12.00	1.37
2.833	2.05	5.917	58.55	9.000	3.15	12.08	1.37
2.917	2.05	6.000	58.55	9.083	3.15	12.17	1.37
3.000	2.05	6.083	58.55	9.167	3.15		
3.083	2.05	6.167	58.55	9.250	2.05		

Unit Hyd Qpeak (cms)= 2.549

PEAK FLOW (cms)= 1.182 (i)
 TIME TO PEAK (hrs)= 8.917
 RUNOFF VOLUME (mm)= 16.796
 TOTAL RAINFALL (mm)= 68.400
 RUNOFF COEFFICIENT = 0.246

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

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-----
| CALIB |
| STANDBY ( 0190) | Area (ha)= 1.71
| ID= 1 DT= 5.0 min | Total Imp(%)= 72.00 Dir. Conn.(%)= 72.00
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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

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 2.05 | 6.250 14.91 | 9.33 2.05
0.167 0.00 | 3.250 2.74 | 6.333 14.91 | 9.42 2.05
0.250 2.05 | 3.333 2.74 | 6.417 14.91 | 9.50 2.05
0.333 2.05 | 3.417 2.74 | 6.500 14.91 | 9.58 2.05
0.417 2.05 | 3.500 2.74 | 6.583 14.91 | 9.67 2.05
0.500 2.05 | 3.583 2.74 | 6.667 14.91 | 9.75 1.64
0.583 2.05 | 3.667 2.74 | 6.750 6.57 | 9.83 1.64
0.667 2.05 | 3.750 2.74 | 6.833 6.57 | 9.92 1.64
0.750 0.96 | 3.833 2.74 | 6.917 6.57 | 10.00 1.64
0.833 0.96 | 3.917 2.74 | 7.000 6.57 | 10.08 1.64
0.917 0.96 | 4.000 2.74 | 7.083 6.57 | 10.17 1.64
1.000 0.96 | 4.083 2.74 | 7.167 6.57 | 10.25 2.33
1.083 0.96 | 4.167 2.74 | 7.250 4.38 | 10.33 2.33
1.167 0.96 | 4.250 3.69 | 7.333 4.38 | 10.42 2.33
1.250 1.78 | 4.333 3.69 | 7.417 4.38 | 10.50 2.33
1.333 1.78 | 4.417 3.69 | 7.500 4.38 | 10.58 2.33
1.417 1.78 | 4.500 3.69 | 7.583 4.38 | 10.67 2.33
  
```

Max.Eff.Inten.(mm/hr)= 58.55 16.98
 over (min) 5.00 25.00
 Storage Coeff. (min)= 3.29 (ii) 20.84 (ii)
 Unit Hyd. Tpeak (min)= 5.00 25.00
 Unit Hyd. peak (cms)= 0.27 0.05

TOTALS

PEAK FLOW (cms)=	0.20	0.01	0.211 (iii)
TIME TO PEAK (hrs)=	6.17	6.42	6.17
RUNOFF VOLUME (mm)=	67.40	17.80	53.51
TOTAL RAINFALL (mm)=	68.40	68.40	68.40
RUNOFF COEFFICIENT =	0.99	0.26	0.78

***** 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 | AREA QPEAK TPEAK R.V.
| | (ha) (cms) (hrs) (mm)
-----
ID1= 1 ( 0190): 1.71 0.211 6.17 53.51
+ ID2= 2 ( 0191): 146.82 1.182 8.92 16.80
=====
  
```

ID = 3 (0030): 148.53 1.195 8.92 17.22

2.917	2.05	6.000	58.55	9.083	3.15	12.17	1.37
3.000	2.05	6.083	58.55	9.167	3.15		
3.083	2.05	6.167	58.55	9.250	2.05		

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
  
```

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	2.05	6.250	14.91	9.33	2.05
0.167	0.00	3.250	2.74	6.333	14.91	9.42	2.05
0.250	2.05	3.333	2.74	6.417	14.91	9.50	2.05
0.333	2.05	3.417	2.74	6.500	14.91	9.58	2.05
0.417	2.05	3.500	2.74	6.583	14.91	9.67	2.05
0.500	2.05	3.583	2.74	6.667	14.91	9.75	1.64
0.583	2.05	3.667	2.74	6.750	6.57	9.83	1.64
0.667	2.05	3.750	2.74	6.833	6.57	9.92	1.64
0.750	0.96	3.833	2.74	6.917	6.57	10.00	1.64
0.833	0.96	3.917	2.74	7.000	6.57	10.08	1.64
0.917	0.96	4.000	2.74	7.083	6.57	10.17	1.64
1.000	0.96	4.083	2.74	7.167	6.57	10.25	2.33
1.083	0.96	4.167	2.74	7.250	4.38	10.33	2.33
1.167	0.96	4.250	3.69	7.333	4.38	10.42	2.33
1.250	1.78	4.333	3.69	7.417	4.38	10.50	2.33
1.333	1.78	4.417	3.69	7.500	4.38	10.58	2.33
1.417	1.78	4.500	3.69	7.583	4.38	10.67	2.33
1.500	1.78	4.583	3.69	7.667	4.38	10.75	1.50
1.583	1.78	4.667	3.69	7.750	3.83	10.83	1.50
1.667	1.78	4.750	4.65	7.833	3.83	10.92	1.50
1.750	1.78	4.833	4.65	7.917	3.83	11.00	1.50
1.833	1.78	4.917	4.65	8.000	3.83	11.08	1.50
1.917	1.78	5.000	4.65	8.083	3.83	11.17	1.50
2.000	1.78	5.083	4.65	8.167	3.83	11.25	1.37
2.083	1.78	5.167	4.65	8.250	3.01	11.33	1.37
2.167	1.78	5.250	7.39	8.333	3.01	11.42	1.37
2.250	2.33	5.333	7.39	8.417	3.01	11.50	1.37
2.333	2.33	5.417	7.39	8.500	3.01	11.58	1.37
2.417	2.33	5.500	7.39	8.583	3.01	11.67	1.37
2.500	2.33	5.583	7.39	8.667	3.01	11.75	1.37
2.583	2.33	5.667	7.39	8.750	3.15	11.83	1.37
2.667	2.33	5.750	58.55	8.833	3.15	11.92	1.37
2.750	2.05	5.833	58.55	8.917	3.15	12.00	1.37
2.833	2.05	5.917	58.55	9.000	3.15	12.08	1.37

Unit Hyd Qpeak (cms)= 4.392

PEAK FLOW (cms)= 2.292 (i)
 TIME TO PEAK (hrs)= 9.083
 RUNOFF VOLUME (mm)= 18.178
 TOTAL RAINFALL (mm)= 68.400
 RUNOFF COEFFICIENT = 0.266

(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 2.292   9.08   18.18
+ ID2= 2 ( 0030): 148.53 1.195   8.92   17.22
=====
ID = 3 ( 0061): 425.66 3.484   9.00   17.84
  
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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
-----
U.H. Tp(hrs)= 3.71
  
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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	2.05	6.250	14.91	9.33	2.05
0.167	0.00	3.250	2.74	6.333	14.91	9.42	2.05
0.250	2.05	3.333	2.74	6.417	14.91	9.50	2.05
0.333	2.05	3.417	2.74	6.500	14.91	9.58	2.05
0.417	2.05	3.500	2.74	6.583	14.91	9.67	2.05
0.500	2.05	3.583	2.74	6.667	14.91	9.75	1.64
0.583	2.05	3.667	2.74	6.750	6.57	9.83	1.64
0.667	2.05	3.750	2.74	6.833	6.57	9.92	1.64
0.750	0.96	3.833	2.74	6.917	6.57	10.00	1.64
0.833	0.96	3.917	2.74	7.000	6.57	10.08	1.64
0.917	0.96	4.000	2.74	7.083	6.57	10.17	1.64

1.000	0.96	4.083	2.74	7.167	6.57	10.25	2.33
1.083	0.96	4.167	2.74	7.250	4.38	10.33	2.33
1.167	0.96	4.250	3.69	7.333	4.38	10.42	2.33
1.250	1.78	4.333	3.69	7.417	4.38	10.50	2.33
1.333	1.78	4.417	3.69	7.500	4.38	10.58	2.33
1.417	1.78	4.500	3.69	7.583	4.38	10.67	2.33
1.500	1.78	4.583	3.69	7.667	4.38	10.75	1.50
1.583	1.78	4.667	3.69	7.750	3.83	10.83	1.50
1.667	1.78	4.750	4.65	7.833	3.83	10.92	1.50
1.750	1.78	4.833	4.65	7.917	3.83	11.00	1.50
1.833	1.78	4.917	4.65	8.000	3.83	11.08	1.50
1.917	1.78	5.000	4.65	8.083	3.83	11.17	1.50
2.000	1.78	5.083	4.65	8.167	3.83	11.25	1.37
2.083	1.78	5.167	4.65	8.250	3.01	11.33	1.37
2.167	1.78	5.250	7.39	8.333	3.01	11.42	1.37
2.250	2.33	5.333	7.39	8.417	3.01	11.50	1.37
2.333	2.33	5.417	7.39	8.500	3.01	11.58	1.37
2.417	2.33	5.500	7.39	8.583	3.01	11.67	1.37
2.500	2.33	5.583	7.39	8.667	3.01	11.75	1.37
2.583	2.33	5.667	7.39	8.750	3.15	11.83	1.37
2.667	2.33	5.750	58.55	8.833	3.15	11.92	1.37
2.750	2.05	5.833	58.55	8.917	3.15	12.00	1.37
2.833	2.05	5.917	58.55	9.000	3.15	12.08	1.37
2.917	2.05	6.000	58.55	9.083	3.15	12.17	1.37
3.000	2.05	6.083	58.55	9.167	3.15		
3.083	2.05	6.167	58.55	9.250	2.05		

0.083	0.00	3.167	2.05	6.250	14.91	9.33	2.05
0.167	0.00	3.250	2.74	6.333	14.91	9.42	2.05
0.250	2.05	3.333	2.74	6.417	14.91	9.50	2.05
0.333	2.05	3.417	2.74	6.500	14.91	9.58	2.05
0.417	2.05	3.500	2.74	6.583	14.91	9.67	2.05
0.500	2.05	3.583	2.74	6.667	14.91	9.75	1.64
0.583	2.05	3.667	2.74	6.750	6.57	9.83	1.64
0.667	2.05	3.750	2.74	6.833	6.57	9.92	1.64
0.750	0.96	3.833	2.74	6.917	6.57	10.00	1.64
0.833	0.96	3.917	2.74	7.000	6.57	10.08	1.64
0.917	0.96	4.000	2.74	7.083	6.57	10.17	1.64
1.000	0.96	4.083	2.74	7.167	6.57	10.25	2.33
1.083	0.96	4.167	2.74	7.250	4.38	10.33	2.33
1.167	0.96	4.250	3.69	7.333	4.38	10.42	2.33
1.250	1.78	4.333	3.69	7.417	4.38	10.50	2.33
1.333	1.78	4.417	3.69	7.500	4.38	10.58	2.33
1.417	1.78	4.500	3.69	7.583	4.38	10.67	2.33
1.500	1.78	4.583	3.69	7.667	4.38	10.75	1.50
1.583	1.78	4.667	3.69	7.750	3.83	10.83	1.50
1.667	1.78	4.750	4.65	7.833	3.83	10.92	1.50
1.750	1.78	4.833	4.65	7.917	3.83	11.00	1.50
1.833	1.78	4.917	4.65	8.000	3.83	11.08	1.50
1.917	1.78	5.000	4.65	8.083	3.83	11.17	1.50
2.000	1.78	5.083	4.65	8.167	3.83	11.25	1.37
2.083	1.78	5.167	4.65	8.250	3.01	11.33	1.37
2.167	1.78	5.250	7.39	8.333	3.01	11.42	1.37
2.250	2.33	5.333	7.39	8.417	3.01	11.50	1.37
2.333	2.33	5.417	7.39	8.500	3.01	11.58	1.37
2.417	2.33	5.500	7.39	8.583	3.01	11.67	1.37
2.500	2.33	5.583	7.39	8.667	3.01	11.75	1.37
2.583	2.33	5.667	7.39	8.750	3.15	11.83	1.37
2.667	2.33	5.750	58.55	8.833	3.15	11.92	1.37
2.750	2.05	5.833	58.55	8.917	3.15	12.00	1.37
2.833	2.05	5.917	58.55	9.000	3.15	12.08	1.37
2.917	2.05	6.000	58.55	9.083	3.15	12.17	1.37
3.000	2.05	6.083	58.55	9.167	3.15		
3.083	2.05	6.167	58.55	9.250	2.05		

Unit Hyd Qpeak (cms)= 5.114

PEAK FLOW (cms)= 3.910 (i)
 TIME TO PEAK (hrs)= 10.750
 RUNOFF VOLUME (mm)= 23.609
 TOTAL RAINFALL (mm)= 68.400
 RUNOFF COEFFICIENT = 0.345

(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

Unit Hyd Qpeak (cms)= 2.046

PEAK FLOW (cms)= 0.795 (i)
 TIME TO PEAK (hrs)= 6.750
 RUNOFF VOLUME (mm)= 20.621
 TOTAL RAINFALL (mm)= 68.400
 RUNOFF COEFFICIENT = 0.301

(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

2.833	2.05	5.917	58.55	9.000	3.15	12.08	1.37
2.917	2.05	6.000	58.55	9.083	3.15	12.17	1.37
3.000	2.05	6.083	58.55	9.167	3.15		
3.083	2.05	6.167	58.55	9.250	2.05		

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

Max.Eff.Inten.(mm/hr)=	58.55	25.57
over (min)	5.00	20.00
Storage Coeff. (min)=	4.59 (ii)	19.49 (ii)
Unit Hyd. Tpeak (min)=	5.00	20.00
Unit Hyd. peak (cms)=	0.23	0.06

TOTALS
 0.448 (iii)

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

PEAK FLOW (cms)=	0.33	0.14	0.448 (iii)
TIME TO PEAK (hrs)=	6.17	6.33	6.17
RUNOFF VOLUME (mm)=	67.40	24.78	41.40
TOTAL RAINFALL (mm)=	68.40	68.40	68.40
RUNOFF COEFFICIENT =	0.99	0.36	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	2.05	6.250	14.91	9.33	2.05
0.167	0.00	3.250	2.74	6.333	14.91	9.42	2.05
0.250	2.05	3.333	2.74	6.417	14.91	9.50	2.05
0.333	2.05	3.417	2.74	6.500	14.91	9.58	2.05
0.417	2.05	3.500	2.74	6.583	14.91	9.67	2.05
0.500	2.05	3.583	2.74	6.667	14.91	9.75	1.64
0.583	2.05	3.667	2.74	6.750	6.57	9.83	1.64
0.667	2.05	3.750	2.74	6.833	6.57	9.92	1.64
0.750	0.96	3.833	2.74	6.917	6.57	10.00	1.64
0.833	0.96	3.917	2.74	7.000	6.57	10.08	1.64
0.917	0.96	4.000	2.74	7.083	6.57	10.17	1.64
1.000	0.96	4.083	2.74	7.167	6.57	10.25	2.33
1.083	0.96	4.167	2.74	7.250	4.38	10.33	2.33
1.167	0.96	4.250	3.69	7.333	4.38	10.42	2.33
1.250	1.78	4.333	3.69	7.417	4.38	10.50	2.33
1.333	1.78	4.417	3.69	7.500	4.38	10.58	2.33
1.417	1.78	4.500	3.69	7.583	4.38	10.67	2.33
1.500	1.78	4.583	3.69	7.667	4.38	10.75	1.50
1.583	1.78	4.667	3.69	7.750	3.83	10.83	1.50
1.667	1.78	4.750	4.65	7.833	3.83	10.92	1.50
1.750	1.78	4.833	4.65	7.917	3.83	11.00	1.50
1.833	1.78	4.917	4.65	8.000	3.83	11.08	1.50
1.917	1.78	5.000	4.65	8.083	3.83	11.17	1.50
2.000	1.78	5.083	4.65	8.167	3.83	11.25	1.37
2.083	1.78	5.167	4.65	8.250	3.01	11.33	1.37
2.167	1.78	5.250	7.39	8.333	3.01	11.42	1.37
2.250	2.33	5.333	7.39	8.417	3.01	11.50	1.37
2.333	2.33	5.417	7.39	8.500	3.01	11.58	1.37
2.417	2.33	5.500	7.39	8.583	3.01	11.67	1.37
2.500	2.33	5.583	7.39	8.667	3.01	11.75	1.37
2.583	2.33	5.667	7.39	8.750	3.15	11.83	1.37
2.667	2.33	5.750	58.55	8.833	3.15	11.92	1.37
2.750	2.05	5.833	58.55	8.917	3.15	12.00	1.37

***** 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 (ha) QPEAK (cms) TPEAK (hrs) R.V. (mm)
 ID1= 1 (0200): 5.18 0.448 6.17 41.40
 + ID2= 2 (0201): 30.53 0.795 6.75 20.62
 ID = 3 (0033): 35.71 0.977 6.67 23.64

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

 | 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

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	2.05	6.250	14.91	9.33	2.05
0.167	0.00	3.250	2.74	6.333	14.91	9.42	2.05
0.250	2.05	3.333	2.74	6.417	14.91	9.50	2.05
0.333	2.05	3.417	2.74	6.500	14.91	9.58	2.05
0.417	2.05	3.500	2.74	6.583	14.91	9.67	2.05
0.500	2.05	3.583	2.74	6.667	14.91	9.75	1.64
0.583	2.05	3.667	2.74	6.750	6.57	9.83	1.64
0.667	2.05	3.750	2.74	6.833	6.57	9.92	1.64
0.750	0.96	3.833	2.74	6.917	6.57	10.00	1.64
0.833	0.96	3.917	2.74	7.000	6.57	10.08	1.64
0.917	0.96	4.000	2.74	7.083	6.57	10.17	1.64
1.000	0.96	4.083	2.74	7.167	6.57	10.25	2.33
1.083	0.96	4.167	2.74	7.250	4.38	10.33	2.33
1.167	0.96	4.250	3.69	7.333	4.38	10.42	2.33
1.250	1.78	4.333	3.69	7.417	4.38	10.50	2.33
1.333	1.78	4.417	3.69	7.500	4.38	10.58	2.33
1.417	1.78	4.500	3.69	7.583	4.38	10.67	2.33
1.500	1.78	4.583	3.69	7.667	4.38	10.75	1.50
1.583	1.78	4.667	3.69	7.750	3.83	10.83	1.50
1.667	1.78	4.750	4.65	7.833	3.83	10.92	1.50
1.750	1.78	4.833	4.65	7.917	3.83	11.00	1.50
1.833	1.78	4.917	4.65	8.000	3.83	11.08	1.50
1.917	1.78	5.000	4.65	8.083	3.83	11.17	1.50
2.000	1.78	5.083	4.65	8.167	3.83	11.25	1.37
2.083	1.78	5.167	4.65	8.250	3.01	11.33	1.37
2.167	1.78	5.250	7.39	8.333	3.01	11.42	1.37
2.250	2.33	5.333	7.39	8.417	3.01	11.50	1.37
2.333	2.33	5.417	7.39	8.500	3.01	11.58	1.37
2.417	2.33	5.500	7.39	8.583	3.01	11.67	1.37
2.500	2.33	5.583	7.39	8.667	3.01	11.75	1.37
2.583	2.33	5.667	7.39	8.750	3.15	11.83	1.37
2.667	2.33	5.750	58.55	8.833	3.15	11.92	1.37
2.750	2.05	5.833	58.55	8.917	3.15	12.00	1.37

0.083	0.00	3.167	2.05	6.250	14.91	9.33	2.05
0.167	0.00	3.250	2.74	6.333	14.91	9.42	2.05
0.250	2.05	3.333	2.74	6.417	14.91	9.50	2.05
0.333	2.05	3.417	2.74	6.500	14.91	9.58	2.05
0.417	2.05	3.500	2.74	6.583	14.91	9.67	2.05
0.500	2.05	3.583	2.74	6.667	14.91	9.75	1.64
0.583	2.05	3.667	2.74	6.750	6.57	9.83	1.64
0.667	2.05	3.750	2.74	6.833	6.57	9.92	1.64
0.750	0.96	3.833	2.74	6.917	6.57	10.00	1.64
0.833	0.96	3.917	2.74	7.000	6.57	10.08	1.64
0.917	0.96	4.000	2.74	7.083	6.57	10.17	1.64
1.000	0.96	4.083	2.74	7.167	6.57	10.25	2.33
1.083	0.96	4.167	2.74	7.250	4.38	10.33	2.33
1.167	0.96	4.250	3.69	7.333	4.38	10.42	2.33
1.250	1.78	4.333	3.69	7.417	4.38	10.50	2.33
1.333	1.78	4.417	3.69	7.500	4.38	10.58	2.33
1.417	1.78	4.500	3.69	7.583	4.38	10.67	2.33
1.500	1.78	4.583	3.69	7.667	4.38	10.75	1.50
1.583	1.78	4.667	3.69	7.750	3.83	10.83	1.50
1.667	1.78	4.750	4.65	7.833	3.83	10.92	1.50
1.750	1.78	4.833	4.65	7.917	3.83	11.00	1.50
1.833	1.78	4.917	4.65	8.000	3.83	11.08	1.50
1.917	1.78	5.000	4.65	8.083	3.83	11.17	1.50
2.000	1.78	5.083	4.65	8.167	3.83	11.25	1.37
2.083	1.78	5.167	4.65	8.250	3.01	11.33	1.37
2.167	1.78	5.250	7.39	8.333	3.01	11.42	1.37
2.250	2.33	5.333	7.39	8.417	3.01	11.50	1.37
2.333	2.33	5.417	7.39	8.500	3.01	11.58	1.37
2.417	2.33	5.500	7.39	8.583	3.01	11.67	1.37
2.500	2.33	5.583	7.39	8.667	3.01	11.75	1.37
2.583	2.33	5.667	7.39	8.750	3.15	11.83	1.37
2.667	2.33	5.750	58.55	8.833	3.15	11.92	1.37
2.750	2.05	5.833	58.55	8.917	3.15	12.00	1.37
2.833	2.05	5.917	58.55	9.000	3.15	12.08	1.37
2.917	2.05	6.000	58.55	9.083	3.15	12.17	1.37
3.000	2.05	6.083	58.55	9.167	3.15		
3.083	2.05	6.167	58.55	9.250	2.05		

Unit Hyd Qpeak (cms)= 3.678

PEAK FLOW (cms)= 1.610 (i)
 TIME TO PEAK (hrs)= 6.833
 RUNOFF VOLUME (mm)= 21.577
 TOTAL RAINFALL (mm)= 68.400
 RUNOFF COEFFICIENT = 0.315

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

CALIB
 STANDHYD (0210)
 ID= 1 DT= 5.0 min
 Area (ha)= 0.57
 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
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.05	6.250	14.91	9.33	2.05
0.167	0.00	3.250	2.74	6.333	14.91	9.42	2.05
0.250	2.05	3.333	2.74	6.417	14.91	9.50	2.05
0.333	2.05	3.417	2.74	6.500	14.91	9.58	2.05
0.417	2.05	3.500	2.74	6.583	14.91	9.67	2.05
0.500	2.05	3.583	2.74	6.667	14.91	9.75	1.64
0.583	2.05	3.667	2.74	6.750	6.57	9.83	1.64
0.667	2.05	3.750	2.74	6.833	6.57	9.92	1.64
0.750	0.96	3.833	2.74	6.917	6.57	10.00	1.64
0.833	0.96	3.917	2.74	7.000	6.57	10.08	1.64
0.917	0.96	4.000	2.74	7.083	6.57	10.17	1.64
1.000	0.96	4.083	2.74	7.167	6.57	10.25	2.33
1.083	0.96	4.167	2.74	7.250	4.38	10.33	2.33
1.167	0.96	4.250	3.69	7.333	4.38	10.42	2.33
1.250	1.78	4.333	3.69	7.417	4.38	10.50	2.33
1.333	1.78	4.417	3.69	7.500	4.38	10.58	2.33
1.417	1.78	4.500	3.69	7.583	4.38	10.67	2.33
1.500	1.78	4.583	3.69	7.667	4.38	10.75	1.50
1.583	1.78	4.667	3.69	7.750	3.83	10.83	1.50
1.667	1.78	4.750	4.65	7.833	3.83	10.92	1.50
1.750	1.78	4.833	4.65	7.917	3.83	11.00	1.50
1.833	1.78	4.917	4.65	8.000	3.83	11.08	1.50
1.917	1.78	5.000	4.65	8.083	3.83	11.17	1.50
2.000	1.78	5.083	4.65	8.167	3.83	11.25	1.37
2.083	1.78	5.167	4.65	8.250	3.01	11.33	1.37
2.167	1.78	5.250	7.39	8.333	3.01	11.42	1.37
2.250	2.33	5.333	7.39	8.417	3.01	11.50	1.37
2.333	2.33	5.417	7.39	8.500	3.01	11.58	1.37
2.417	2.33	5.500	7.39	8.583	3.01	11.67	1.37
2.500	2.33	5.583	7.39	8.667	3.01	11.75	1.37
2.583	2.33	5.667	7.39	8.750	3.15	11.83	1.37
2.667	2.33	5.750	58.55	8.833	3.15	11.92	1.37
2.750	2.05	5.833	58.55	8.917	3.15	12.00	1.37

2.833	2.05	5.917	58.55	9.000	3.15	12.08	1.37
2.917	2.05	6.000	58.55	9.083	3.15	12.17	1.37
3.000	2.05	6.083	58.55	9.167	3.15		
3.083	2.05	6.167	58.55	9.250	2.05		

Max.Eff.Inten.(mm/hr)= 58.55 21.97
over (min) 5.00 20.00
Storage Coeff. (min)= 2.37 (ii) 18.20 (ii)
Unit Hyd. Tpeak (min)= 5.00 20.00
Unit Hyd. peak (cms)= 0.30 0.06

PEAK FLOW (cms)= 0.04 0.01
TIME TO PEAK (hrs)= 6.17 6.33
RUNOFF VOLUME (mm)= 67.40 22.64
TOTAL RAINFALL (mm)= 68.40 68.40
RUNOFF COEFFICIENT = 0.99 0.33

TOTALS

0.048 (iii)

***** 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.

1.083	0.96	4.167	2.74	7.250	4.38	10.33	2.33
1.167	0.96	4.250	3.69	7.333	4.38	10.42	2.33
1.250	1.78	4.333	3.69	7.417	4.38	10.50	2.33
1.333	1.78	4.417	3.69	7.500	4.38	10.58	2.33
1.417	1.78	4.500	3.69	7.583	4.38	10.67	2.33
1.500	1.78	4.583	3.69	7.667	4.38	10.75	1.50
1.583	1.78	4.667	3.69	7.750	3.83	10.83	1.50
1.667	1.78	4.750	4.65	7.833	3.83	10.92	1.50
1.750	1.78	4.833	4.65	7.917	3.83	11.00	1.50
1.833	1.78	4.917	4.65	8.000	3.83	11.08	1.50
1.917	1.78	5.000	4.65	8.083	3.83	11.17	1.50
2.000	1.78	5.083	4.65	8.167	3.83	11.25	1.37
2.083	1.78	5.167	4.65	8.250	3.01	11.33	1.37
2.167	1.78	5.250	7.39	8.333	3.01	11.42	1.37
2.250	2.33	5.333	7.39	8.417	3.01	11.50	1.37
2.333	2.33	5.417	7.39	8.500	3.01	11.58	1.37
2.417	2.33	5.500	7.39	8.583	3.01	11.67	1.37
2.500	2.33	5.583	7.39	8.667	3.01	11.75	1.37
2.583	2.33	5.667	7.39	8.750	3.15	11.83	1.37
2.667	2.33	5.750	58.55	8.833	3.15	11.92	1.37
2.750	2.05	5.833	58.55	8.917	3.15	12.00	1.37
2.833	2.05	5.917	58.55	9.000	3.15	12.08	1.37
2.917	2.05	6.000	58.55	9.083	3.15	12.17	1.37
3.000	2.05	6.083	58.55	9.167	3.15		
3.083	2.05	6.167	58.55	9.250	2.05		

| 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

U.H. Tp(hrs)= 0.15

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	2.05	6.250	14.91	9.33	2.05
0.167	0.00	3.250	2.74	6.333	14.91	9.42	2.05
0.250	2.05	3.333	2.74	6.417	14.91	9.50	2.05
0.333	2.05	3.417	2.74	6.500	14.91	9.58	2.05
0.417	2.05	3.500	2.74	6.583	14.91	9.67	2.05
0.500	2.05	3.583	2.74	6.667	14.91	9.75	1.64
0.583	2.05	3.667	2.74	6.750	6.57	9.83	1.64
0.667	2.05	3.750	2.74	6.833	6.57	9.92	1.64
0.750	0.96	3.833	2.74	6.917	6.57	10.00	1.64
0.833	0.96	3.917	2.74	7.000	6.57	10.08	1.64
0.917	0.96	4.000	2.74	7.083	6.57	10.17	1.64
1.000	0.96	4.083	2.74	7.167	6.57	10.25	2.33

Unit Hyd Qpeak (cms)= 0.517

PEAK FLOW (cms)= 0.114 (i)
TIME TO PEAK (hrs)= 6.167
RUNOFF VOLUME (mm)= 21.333
TOTAL RAINFALL (mm)= 68.400
RUNOFF COEFFICIENT = 0.312

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

| ADD HYD (0036) |
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.

ID1= 1 (0210): 0.57 0.048 6.17 40.08
+ ID2= 2 (0211): 2.03 0.114 6.17 21.33
=====

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ID = 3 (0036): 2.60 0.162 6.17 25.44

```

-----
| ADD HYD ( 0059) |
| 1 + 2 = 3 |
-----
          AREA   QPEAK   TPEAK   R.V.
          (ha)   (cms)   (hrs)   (mm)
ID1= 1 ( 0195): 496.70  3.910  10.75  23.61
+ ID2= 2 ( 0196): 65.48  1.610  6.83   21.58
=====
ID = 3 ( 0059): 562.18  4.138  10.67  23.37

```

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): 562.18  4.138  10.67  23.37
+ ID2= 2 ( 0033): 35.71  0.977  6.67   23.64
=====
ID = 1 ( 0059): 597.89  4.262  10.67  23.39

```

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): 597.89  4.262  10.67  23.39
+ ID2= 2 ( 0036): 2.60  0.162  6.17   25.44
=====
ID = 3 ( 0059): 600.49  4.272  10.67  23.40

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| CALIB |
| NASHYD ( 0194) |
| ID= 1 DT= 5.0 min |
-----
Area (ha)= 160.45 Curve Number (CN)= 74.0
Ia (mm)= 9.10 # of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 2.14

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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 2.05 | 6.250 14.91 | 9.33 2.05
0.167 0.00 | 3.250 2.74 | 6.333 14.91 | 9.42 2.05
0.250 2.05 | 3.333 2.74 | 6.417 14.91 | 9.50 2.05

```

0.333	2.05	3.417	2.74	6.500	14.91	9.58	2.05
0.417	2.05	3.500	2.74	6.583	14.91	9.67	2.05
0.500	2.05	3.583	2.74	6.667	14.91	9.75	1.64
0.583	2.05	3.667	2.74	6.750	6.57	9.83	1.64
0.667	2.05	3.750	2.74	6.833	6.57	9.92	1.64
0.750	0.96	3.833	2.74	6.917	6.57	10.00	1.64
0.833	0.96	3.917	2.74	7.000	6.57	10.08	1.64
0.917	0.96	4.000	2.74	7.083	6.57	10.17	1.64
1.000	0.96	4.083	2.74	7.167	6.57	10.25	2.33
1.083	0.96	4.167	2.74	7.250	4.38	10.33	2.33
1.167	0.96	4.250	3.69	7.333	4.38	10.42	2.33
1.250	1.78	4.333	3.69	7.417	4.38	10.50	2.33
1.333	1.78	4.417	3.69	7.500	4.38	10.58	2.33
1.417	1.78	4.500	3.69	7.583	4.38	10.67	2.33
1.500	1.78	4.583	3.69	7.667	4.38	10.75	1.50
1.583	1.78	4.667	3.69	7.750	3.83	10.83	1.50
1.667	1.78	4.750	4.65	7.833	3.83	10.92	1.50
1.750	1.78	4.833	4.65	7.917	3.83	11.00	1.50
1.833	1.78	4.917	4.65	8.000	3.83	11.08	1.50
1.917	1.78	5.000	4.65	8.083	3.83	11.17	1.50
2.000	1.78	5.083	4.65	8.167	3.83	11.25	1.37
2.083	1.78	5.167	4.65	8.250	3.01	11.33	1.37
2.167	1.78	5.250	7.39	8.333	3.01	11.42	1.37
2.250	2.33	5.333	7.39	8.417	3.01	11.50	1.37
2.333	2.33	5.417	7.39	8.500	3.01	11.58	1.37
2.417	2.33	5.500	7.39	8.583	3.01	11.67	1.37
2.500	2.33	5.583	7.39	8.667	3.01	11.75	1.37
2.583	2.33	5.667	7.39	8.750	3.15	11.83	1.37
2.667	2.33	5.750	58.55	8.833	3.15	11.92	1.37
2.750	2.05	5.833	58.55	8.917	3.15	12.00	1.37
2.833	2.05	5.917	58.55	9.000	3.15	12.08	1.37
2.917	2.05	6.000	58.55	9.083	3.15	12.17	1.37
3.000	2.05	6.083	58.55	9.167	3.15		
3.083	2.05	6.167	58.55	9.250	2.05		

Unit Hyd Qpeak (cms)= 2.864

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PEAK FLOW (cms)= 1.914 (i)
TIME TO PEAK (hrs)= 8.667
RUNOFF VOLUME (mm)= 23.673
TOTAL RAINFALL (mm)= 68.400
RUNOFF COEFFICIENT = 0.346

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

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-----
| ADD HYD ( 0016) |
| 1 + 2 = 3 |
-----
          AREA   QPEAK   TPEAK   R.V.

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	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0194):	160.45	1.914	8.67	23.67
+ ID2= 2 (0059):	600.49	4.272	10.67	23.40
=====				
ID = 3 (0016):	760.94	5.932	9.58	23.46

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB		Area (ha)	Curve Number (CN)
NASHYD (0193)		48.62	66.0
ID= 1 DT= 5.0 min	Ia (mm)	15.10	# of Linear Res.(N)= 3.00
U.H. Tp(hrs)		1.78	

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	2.05	6.250	14.91	9.33	2.05
0.167	0.00	3.250	2.74	6.333	14.91	9.42	2.05
0.250	2.05	3.333	2.74	6.417	14.91	9.50	2.05
0.333	2.05	3.417	2.74	6.500	14.91	9.58	2.05
0.417	2.05	3.500	2.74	6.583	14.91	9.67	2.05
0.500	2.05	3.583	2.74	6.667	14.91	9.75	1.64
0.583	2.05	3.667	2.74	6.750	6.57	9.83	1.64
0.667	2.05	3.750	2.74	6.833	6.57	9.92	1.64
0.750	0.96	3.833	2.74	6.917	6.57	10.00	1.64
0.833	0.96	3.917	2.74	7.000	6.57	10.08	1.64
0.917	0.96	4.000	2.74	7.083	6.57	10.17	1.64
1.000	0.96	4.083	2.74	7.167	6.57	10.25	2.33
1.083	0.96	4.167	2.74	7.250	4.38	10.33	2.33
1.167	0.96	4.250	3.69	7.333	4.38	10.42	2.33
1.250	1.78	4.333	3.69	7.417	4.38	10.50	2.33
1.333	1.78	4.417	3.69	7.500	4.38	10.58	2.33
1.417	1.78	4.500	3.69	7.583	4.38	10.67	2.33
1.500	1.78	4.583	3.69	7.667	4.38	10.75	1.50
1.583	1.78	4.667	3.69	7.750	3.83	10.83	1.50
1.667	1.78	4.750	4.65	7.833	3.83	10.92	1.50
1.750	1.78	4.833	4.65	7.917	3.83	11.00	1.50
1.833	1.78	4.917	4.65	8.000	3.83	11.08	1.50
1.917	1.78	5.000	4.65	8.083	3.83	11.17	1.50
2.000	1.78	5.083	4.65	8.167	3.83	11.25	1.37
2.083	1.78	5.167	4.65	8.250	3.01	11.33	1.37
2.167	1.78	5.250	7.39	8.333	3.01	11.42	1.37
2.250	2.33	5.333	7.39	8.417	3.01	11.50	1.37
2.333	2.33	5.417	7.39	8.500	3.01	11.58	1.37
2.417	2.33	5.500	7.39	8.583	3.01	11.67	1.37
2.500	2.33	5.583	7.39	8.667	3.01	11.75	1.37

2.583	2.33	5.667	7.39	8.750	3.15	11.83	1.37
2.667	2.33	5.750	58.55	8.833	3.15	11.92	1.37
2.750	2.05	5.833	58.55	8.917	3.15	12.00	1.37
2.833	2.05	5.917	58.55	9.000	3.15	12.08	1.37
2.917	2.05	6.000	58.55	9.083	3.15	12.17	1.37
3.000	2.05	6.083	58.55	9.167	3.15		
3.083	2.05	6.167	58.55	9.250	2.05		

Unit Hyd Qpeak (cms)= 1.043

PEAK FLOW (cms)	0.414 (i)
TIME TO PEAK (hrs)	8.333
RUNOFF VOLUME (mm)	15.427
TOTAL RAINFALL (mm)	68.400
RUNOFF COEFFICIENT	0.226

(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):	760.94	5.932	9.58	23.46
+ ID2= 2 (0193):	48.62	0.414	8.33	15.43
=====				
ID = 3 (0060):	809.56	6.287	9.50	22.97

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)	24.90	# 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	2.05	6.250	14.91	9.33	2.05
0.167	0.00	3.250	2.74	6.333	14.91	9.42	2.05
0.250	2.05	3.333	2.74	6.417	14.91	9.50	2.05
0.333	2.05	3.417	2.74	6.500	14.91	9.58	2.05
0.417	2.05	3.500	2.74	6.583	14.91	9.67	2.05
0.500	2.05	3.583	2.74	6.667	14.91	9.75	1.64
0.583	2.05	3.667	2.74	6.750	6.57	9.83	1.64

0.667	2.05	3.750	2.74	6.833	6.57	9.92	1.64
0.750	0.96	3.833	2.74	6.917	6.57	10.00	1.64
0.833	0.96	3.917	2.74	7.000	6.57	10.08	1.64
0.917	0.96	4.000	2.74	7.083	6.57	10.17	1.64
1.000	0.96	4.083	2.74	7.167	6.57	10.25	2.33
1.083	0.96	4.167	2.74	7.250	4.38	10.33	2.33
1.167	0.96	4.250	3.69	7.333	4.38	10.42	2.33
1.250	1.78	4.333	3.69	7.417	4.38	10.50	2.33
1.333	1.78	4.417	3.69	7.500	4.38	10.58	2.33
1.417	1.78	4.500	3.69	7.583	4.38	10.67	2.33
1.500	1.78	4.583	3.69	7.667	4.38	10.75	1.50
1.583	1.78	4.667	3.69	7.750	3.83	10.83	1.50
1.667	1.78	4.750	4.65	7.833	3.83	10.92	1.50
1.750	1.78	4.833	4.65	7.917	3.83	11.00	1.50
1.833	1.78	4.917	4.65	8.000	3.83	11.08	1.50
1.917	1.78	5.000	4.65	8.083	3.83	11.17	1.50
2.000	1.78	5.083	4.65	8.167	3.83	11.25	1.37
2.083	1.78	5.167	4.65	8.250	3.01	11.33	1.37
2.167	1.78	5.250	7.39	8.333	3.01	11.42	1.37
2.250	2.33	5.333	7.39	8.417	3.01	11.50	1.37
2.333	2.33	5.417	7.39	8.500	3.01	11.58	1.37
2.417	2.33	5.500	7.39	8.583	3.01	11.67	1.37
2.500	2.33	5.583	7.39	8.667	3.01	11.75	1.37
2.583	2.33	5.667	7.39	8.750	3.15	11.83	1.37
2.667	2.33	5.750	58.55	8.833	3.15	11.92	1.37
2.750	2.05	5.833	58.55	8.917	3.15	12.00	1.37
2.833	2.05	5.917	58.55	9.000	3.15	12.08	1.37
2.917	2.05	6.000	58.55	9.083	3.15	12.17	1.37
3.000	2.05	6.083	58.55	9.167	3.15		
3.083	2.05	6.167	58.55	9.250	2.05		

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	2.05	6.250	14.91	9.33	2.05
0.167	0.00	3.250	2.74	6.333	14.91	9.42	2.05
0.250	2.05	3.333	2.74	6.417	14.91	9.50	2.05
0.333	2.05	3.417	2.74	6.500	14.91	9.58	2.05
0.417	2.05	3.500	2.74	6.583	14.91	9.67	2.05
0.500	2.05	3.583	2.74	6.667	14.91	9.75	1.64
0.583	2.05	3.667	2.74	6.750	6.57	9.83	1.64
0.667	2.05	3.750	2.74	6.833	6.57	9.92	1.64
0.750	0.96	3.833	2.74	6.917	6.57	10.00	1.64
0.833	0.96	3.917	2.74	7.000	6.57	10.08	1.64
0.917	0.96	4.000	2.74	7.083	6.57	10.17	1.64
1.000	0.96	4.083	2.74	7.167	6.57	10.25	2.33
1.083	0.96	4.167	2.74	7.250	4.38	10.33	2.33
1.167	0.96	4.250	3.69	7.333	4.38	10.42	2.33
1.250	1.78	4.333	3.69	7.417	4.38	10.50	2.33
1.333	1.78	4.417	3.69	7.500	4.38	10.58	2.33
1.417	1.78	4.500	3.69	7.583	4.38	10.67	2.33
1.500	1.78	4.583	3.69	7.667	4.38	10.75	1.50
1.583	1.78	4.667	3.69	7.750	3.83	10.83	1.50
1.667	1.78	4.750	4.65	7.833	3.83	10.92	1.50
1.750	1.78	4.833	4.65	7.917	3.83	11.00	1.50
1.833	1.78	4.917	4.65	8.000	3.83	11.08	1.50
1.917	1.78	5.000	4.65	8.083	3.83	11.17	1.50
2.000	1.78	5.083	4.65	8.167	3.83	11.25	1.37
2.083	1.78	5.167	4.65	8.250	3.01	11.33	1.37
2.167	1.78	5.250	7.39	8.333	3.01	11.42	1.37
2.250	2.33	5.333	7.39	8.417	3.01	11.50	1.37
2.333	2.33	5.417	7.39	8.500	3.01	11.58	1.37
2.417	2.33	5.500	7.39	8.583	3.01	11.67	1.37
2.500	2.33	5.583	7.39	8.667	3.01	11.75	1.37
2.583	2.33	5.667	7.39	8.750	3.15	11.83	1.37
2.667	2.33	5.750	58.55	8.833	3.15	11.92	1.37
2.750	2.05	5.833	58.55	8.917	3.15	12.00	1.37
2.833	2.05	5.917	58.55	9.000	3.15	12.08	1.37
2.917	2.05	6.000	58.55	9.083	3.15	12.17	1.37
3.000	2.05	6.083	58.55	9.167	3.15		
3.083	2.05	6.167	58.55	9.250	2.05		

Unit Hyd Qpeak (cms)= 1.269

PEAK FLOW (cms)= 0.118 (i)
TIME TO PEAK (hrs)= 6.833
RUNOFF VOLUME (mm)= 6.580
TOTAL RAINFALL (mm)= 68.400
RUNOFF COEFFICIENT = 0.096

(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

Max.Eff.Inten.(mm/hr)= 58.55 18.70
over (min) 5.00 20.00

Storage Coeff. (min)= 2.74 (ii) 19.63 (ii)
 Unit Hyd. Tpeak (min)= 5.00 20.00
 Unit Hyd. peak (cms)= 0.28 0.06

TOTALS

PEAK FLOW (cms)= 0.06 0.02 0.078 (iii)
 TIME TO PEAK (hrs)= 6.17 6.33 6.17
 RUNOFF VOLUME (mm)= 67.40 19.49 39.12
 TOTAL RAINFALL (mm)= 68.40 68.40 68.40
 RUNOFF COEFFICIENT = 0.99 0.28 0.57

0.667	2.05	3.750	2.74	6.833	6.57	9.92	1.64
0.750	0.96	3.833	2.74	6.917	6.57	10.00	1.64
0.833	0.96	3.917	2.74	7.000	6.57	10.08	1.64
0.917	0.96	4.000	2.74	7.083	6.57	10.17	1.64
1.000	0.96	4.083	2.74	7.167	6.57	10.25	2.33
1.083	0.96	4.167	2.74	7.250	4.38	10.33	2.33
1.167	0.96	4.250	3.69	7.333	4.38	10.42	2.33
1.250	1.78	4.333	3.69	7.417	4.38	10.50	2.33
1.333	1.78	4.417	3.69	7.500	4.38	10.58	2.33
1.417	1.78	4.500	3.69	7.583	4.38	10.67	2.33
1.500	1.78	4.583	3.69	7.667	4.38	10.75	1.50
1.583	1.78	4.667	3.69	7.750	3.83	10.83	1.50
1.667	1.78	4.750	4.65	7.833	3.83	10.92	1.50
1.750	1.78	4.833	4.65	7.917	3.83	11.00	1.50
1.833	1.78	4.917	4.65	8.000	3.83	11.08	1.50
1.917	1.78	5.000	4.65	8.083	3.83	11.17	1.50
2.000	1.78	5.083	4.65	8.167	3.83	11.25	1.37
2.083	1.78	5.167	4.65	8.250	3.01	11.33	1.37
2.167	1.78	5.250	7.39	8.333	3.01	11.42	1.37
2.250	2.33	5.333	7.39	8.417	3.01	11.50	1.37
2.333	2.33	5.417	7.39	8.500	3.01	11.58	1.37
2.417	2.33	5.500	7.39	8.583	3.01	11.67	1.37
2.500	2.33	5.583	7.39	8.667	3.01	11.75	1.37
2.583	2.33	5.667	7.39	8.750	3.15	11.83	1.37
2.667	2.33	5.750	58.55	8.833	3.15	11.92	1.37
2.750	2.05	5.833	58.55	8.917	3.15	12.00	1.37
2.833	2.05	5.917	58.55	9.000	3.15	12.08	1.37
2.917	2.05	6.000	58.55	9.083	3.15	12.17	1.37
3.000	2.05	6.083	58.55	9.167	3.15		
3.083	2.05	6.167	58.55	9.250	2.05		

***** 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)	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
1 + 2 = 3				
ID1= 1 (0250):	0.93	0.078	6.17	39.12
+ ID2= 2 (0251):	16.61	0.118	6.83	6.58
=====				
ID = 3 (0048):	17.54	0.143	6.67	8.31

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB	Area (ha)	Curve Number (CN)
NASHYD (0121)	2.40	54.0
ID= 1 DT= 5.0 min	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 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	2.05	6.250	14.91	9.33	2.05
0.167	0.00	3.250	2.74	6.333	14.91	9.42	2.05
0.250	2.05	3.333	2.74	6.417	14.91	9.50	2.05
0.333	2.05	3.417	2.74	6.500	14.91	9.58	2.05
0.417	2.05	3.500	2.74	6.583	14.91	9.67	2.05
0.500	2.05	3.583	2.74	6.667	14.91	9.75	1.64
0.583	2.05	3.667	2.74	6.750	6.57	9.83	1.64

Unit Hyd Qpeak (cms)= 0.183

PEAK FLOW (cms)= 0.021 (i)
 TIME TO PEAK (hrs)= 6.833
 RUNOFF VOLUME (mm)= 7.715
 TOTAL RAINFALL (mm)= 68.400
 RUNOFF COEFFICIENT = 0.113

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

CALIB	Area (ha)	Dir. Conn.(%)
STANDHYD (0120)	0.82	
ID= 1 DT= 5.0 min	Total Imp(%)= 40.00	Dir. Conn.(%)= 40.00

	IMPERVIOUS (ha)	PERVIOUS (i)
Surface Area	0.33	0.49
Dep. Storage	1.00	5.00

Average Slope (%)= 1.00 2.00
 Length (m)= 73.80 40.00
 Mannings n = 0.013 0.350

Storage Coeff. (min)= 2.64 (ii) 21.61 (ii)
 Unit Hyd. Tpeak (min)= 5.00 25.00
 Unit Hyd. peak (cms)= 0.29 0.05

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

TOTALS
 PEAK FLOW (cms)= 0.05 0.01 0.062 (iii)
 TIME TO PEAK (hrs)= 6.17 6.42 6.17
 RUNOFF VOLUME (mm)= 67.40 14.82 35.84
 TOTAL RAINFALL (mm)= 68.40 68.40 68.40
 RUNOFF COEFFICIENT = 0.99 0.22 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	2.05	6.250	14.91	9.33	2.05
0.167	0.00	3.250	2.74	6.333	14.91	9.42	2.05
0.250	2.05	3.333	2.74	6.417	14.91	9.50	2.05
0.333	2.05	3.417	2.74	6.500	14.91	9.58	2.05
0.417	2.05	3.500	2.74	6.583	14.91	9.67	2.05
0.500	2.05	3.583	2.74	6.667	14.91	9.75	1.64
0.583	2.05	3.667	2.74	6.750	6.57	9.83	1.64
0.667	2.05	3.750	2.74	6.833	6.57	9.92	1.64
0.750	0.96	3.833	2.74	6.917	6.57	10.00	1.64
0.833	0.96	3.917	2.74	7.000	6.57	10.08	1.64
0.917	0.96	4.000	2.74	7.083	6.57	10.17	1.64
1.000	0.96	4.083	2.74	7.167	6.57	10.25	2.33
1.083	0.96	4.167	2.74	7.250	4.38	10.33	2.33
1.167	0.96	4.250	3.69	7.333	4.38	10.42	2.33
1.250	1.78	4.333	3.69	7.417	4.38	10.50	2.33
1.333	1.78	4.417	3.69	7.500	4.38	10.58	2.33
1.417	1.78	4.500	3.69	7.583	4.38	10.67	2.33
1.500	1.78	4.583	3.69	7.667	4.38	10.75	1.50
1.583	1.78	4.667	3.69	7.750	3.83	10.83	1.50
1.667	1.78	4.750	4.65	7.833	3.83	10.92	1.50
1.750	1.78	4.833	4.65	7.917	3.83	11.00	1.50
1.833	1.78	4.917	4.65	8.000	3.83	11.08	1.50
1.917	1.78	5.000	4.65	8.083	3.83	11.17	1.50
2.000	1.78	5.083	4.65	8.167	3.83	11.25	1.37
2.083	1.78	5.167	4.65	8.250	3.01	11.33	1.37
2.167	1.78	5.250	7.39	8.333	3.01	11.42	1.37
2.250	2.33	5.333	7.39	8.417	3.01	11.50	1.37
2.333	2.33	5.417	7.39	8.500	3.01	11.58	1.37
2.417	2.33	5.500	7.39	8.583	3.01	11.67	1.37
2.500	2.33	5.583	7.39	8.667	3.01	11.75	1.37
2.583	2.33	5.667	7.39	8.750	3.15	11.83	1.37
2.667	2.33	5.750	58.55	8.833	3.15	11.92	1.37
2.750	2.05	5.833	58.55	8.917	3.15	12.00	1.37
2.833	2.05	5.917	58.55	9.000	3.15	12.08	1.37
2.917	2.05	6.000	58.55	9.083	3.15	12.17	1.37
3.000	2.05	6.083	58.55	9.167	3.15		
3.083	2.05	6.167	58.55	9.250	2.05		

Max.Eff.Inten.(mm/hr)= 58.55 13.99
 over (min) 5.00 25.00

***** 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)
1 + 2 = 3				
ID1= 1 (0120):	0.82	0.062	6.17	35.84
+ ID2= 2 (0121):	2.40	0.021	6.83	7.72
=====				
ID = 3 (0009):	3.22	0.068	6.17	14.88

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB	Area (ha)	Curve Number (CN)
NASHYD (0111)	5.27	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	2.05	6.250	14.91	9.33	2.05
0.167	0.00	3.250	2.74	6.333	14.91	9.42	2.05
0.250	2.05	3.333	2.74	6.417	14.91	9.50	2.05
0.333	2.05	3.417	2.74	6.500	14.91	9.58	2.05
0.417	2.05	3.500	2.74	6.583	14.91	9.67	2.05
0.500	2.05	3.583	2.74	6.667	14.91	9.75	1.64
0.583	2.05	3.667	2.74	6.750	6.57	9.83	1.64

0.667	2.05	3.750	2.74	6.833	6.57	9.92	1.64
0.750	0.96	3.833	2.74	6.917	6.57	10.00	1.64
0.833	0.96	3.917	2.74	7.000	6.57	10.08	1.64
0.917	0.96	4.000	2.74	7.083	6.57	10.17	1.64
1.000	0.96	4.083	2.74	7.167	6.57	10.25	2.33
1.083	0.96	4.167	2.74	7.250	4.38	10.33	2.33
1.167	0.96	4.250	3.69	7.333	4.38	10.42	2.33
1.250	1.78	4.333	3.69	7.417	4.38	10.50	2.33
1.333	1.78	4.417	3.69	7.500	4.38	10.58	2.33
1.417	1.78	4.500	3.69	7.583	4.38	10.67	2.33
1.500	1.78	4.583	3.69	7.667	4.38	10.75	1.50
1.583	1.78	4.667	3.69	7.750	3.83	10.83	1.50
1.667	1.78	4.750	4.65	7.833	3.83	10.92	1.50
1.750	1.78	4.833	4.65	7.917	3.83	11.00	1.50
1.833	1.78	4.917	4.65	8.000	3.83	11.08	1.50
1.917	1.78	5.000	4.65	8.083	3.83	11.17	1.50
2.000	1.78	5.083	4.65	8.167	3.83	11.25	1.37
2.083	1.78	5.167	4.65	8.250	3.01	11.33	1.37
2.167	1.78	5.250	7.39	8.333	3.01	11.42	1.37
2.250	2.33	5.333	7.39	8.417	3.01	11.50	1.37
2.333	2.33	5.417	7.39	8.500	3.01	11.58	1.37
2.417	2.33	5.500	7.39	8.583	3.01	11.67	1.37
2.500	2.33	5.583	7.39	8.667	3.01	11.75	1.37
2.583	2.33	5.667	7.39	8.750	3.15	11.83	1.37
2.667	2.33	5.750	58.55	8.833	3.15	11.92	1.37
2.750	2.05	5.833	58.55	8.917	3.15	12.00	1.37
2.833	2.05	5.917	58.55	9.000	3.15	12.08	1.37
2.917	2.05	6.000	58.55	9.083	3.15	12.17	1.37
3.000	2.05	6.083	58.55	9.167	3.15		
3.083	2.05	6.167	58.55	9.250	2.05		

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	2.05	6.250	14.91	9.33	2.05
0.167	0.00	3.250	2.74	6.333	14.91	9.42	2.05
0.250	2.05	3.333	2.74	6.417	14.91	9.50	2.05
0.333	2.05	3.417	2.74	6.500	14.91	9.58	2.05
0.417	2.05	3.500	2.74	6.583	14.91	9.67	2.05
0.500	2.05	3.583	2.74	6.667	14.91	9.75	1.64
0.583	2.05	3.667	2.74	6.750	6.57	9.83	1.64
0.667	2.05	3.750	2.74	6.833	6.57	9.92	1.64
0.750	0.96	3.833	2.74	6.917	6.57	10.00	1.64
0.833	0.96	3.917	2.74	7.000	6.57	10.08	1.64
0.917	0.96	4.000	2.74	7.083	6.57	10.17	1.64
1.000	0.96	4.083	2.74	7.167	6.57	10.25	2.33
1.083	0.96	4.167	2.74	7.250	4.38	10.33	2.33
1.167	0.96	4.250	3.69	7.333	4.38	10.42	2.33
1.250	1.78	4.333	3.69	7.417	4.38	10.50	2.33
1.333	1.78	4.417	3.69	7.500	4.38	10.58	2.33
1.417	1.78	4.500	3.69	7.583	4.38	10.67	2.33
1.500	1.78	4.583	3.69	7.667	4.38	10.75	1.50
1.583	1.78	4.667	3.69	7.750	3.83	10.83	1.50
1.667	1.78	4.750	4.65	7.833	3.83	10.92	1.50
1.750	1.78	4.833	4.65	7.917	3.83	11.00	1.50
1.833	1.78	4.917	4.65	8.000	3.83	11.08	1.50
1.917	1.78	5.000	4.65	8.083	3.83	11.17	1.50
2.000	1.78	5.083	4.65	8.167	3.83	11.25	1.37
2.083	1.78	5.167	4.65	8.250	3.01	11.33	1.37
2.167	1.78	5.250	7.39	8.333	3.01	11.42	1.37
2.250	2.33	5.333	7.39	8.417	3.01	11.50	1.37
2.333	2.33	5.417	7.39	8.500	3.01	11.58	1.37
2.417	2.33	5.500	7.39	8.583	3.01	11.67	1.37
2.500	2.33	5.583	7.39	8.667	3.01	11.75	1.37
2.583	2.33	5.667	7.39	8.750	3.15	11.83	1.37
2.667	2.33	5.750	58.55	8.833	3.15	11.92	1.37
2.750	2.05	5.833	58.55	8.917	3.15	12.00	1.37
2.833	2.05	5.917	58.55	9.000	3.15	12.08	1.37
2.917	2.05	6.000	58.55	9.083	3.15	12.17	1.37
3.000	2.05	6.083	58.55	9.167	3.15		
3.083	2.05	6.167	58.55	9.250	2.05		

Unit Hyd Qpeak (cms)= 0.516

PEAK FLOW (cms)= 0.056 (i)
TIME TO PEAK (hrs)= 6.667
RUNOFF VOLUME (mm)= 8.270
TOTAL RAINFALL (mm)= 68.400
RUNOFF COEFFICIENT = 0.121

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

| CALIB |
| STANDHYD (0110) | Area (ha)= 1.01
| ID= 1 DT= 5.0 min | Total Imp(%)= 39.00 Dir. Conn.(%)= 39.00

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 0.39 0.62
Dep. Storage (mm)= 1.00 5.00

Max.Eff.Inten.(mm/hr)= 58.55 13.99
over (min) 5.00 25.00

Storage Coeff. (min)= 2.81 (ii) 21.78 (ii)
 Unit Hyd. Tpeak (min)= 5.00 25.00
 Unit Hyd. peak (cms)= 0.28 0.05

TOTALS

PEAK FLOW (cms)= 0.06 0.01 0.075 (iii)
 TIME TO PEAK (hrs)= 6.17 6.42 6.17
 RUNOFF VOLUME (mm)= 67.40 14.82 35.31
 TOTAL RAINFALL (mm)= 68.40 68.40 68.40
 RUNOFF COEFFICIENT = 0.99 0.22 0.52

0.667	2.05	3.750	2.74	6.833	6.57	9.92	1.64
0.750	0.96	3.833	2.74	6.917	6.57	10.00	1.64
0.833	0.96	3.917	2.74	7.000	6.57	10.08	1.64
0.917	0.96	4.000	2.74	7.083	6.57	10.17	1.64
1.000	0.96	4.083	2.74	7.167	6.57	10.25	2.33
1.083	0.96	4.167	2.74	7.250	4.38	10.33	2.33
1.167	0.96	4.250	3.69	7.333	4.38	10.42	2.33
1.250	1.78	4.333	3.69	7.417	4.38	10.50	2.33
1.333	1.78	4.417	3.69	7.500	4.38	10.58	2.33
1.417	1.78	4.500	3.69	7.583	4.38	10.67	2.33
1.500	1.78	4.583	3.69	7.667	4.38	10.75	1.50
1.583	1.78	4.667	3.69	7.750	3.83	10.83	1.50
1.667	1.78	4.750	4.65	7.833	3.83	10.92	1.50
1.750	1.78	4.833	4.65	7.917	3.83	11.00	1.50
1.833	1.78	4.917	4.65	8.000	3.83	11.08	1.50
1.917	1.78	5.000	4.65	8.083	3.83	11.17	1.50
2.000	1.78	5.083	4.65	8.167	3.83	11.25	1.37
2.083	1.78	5.167	4.65	8.250	3.01	11.33	1.37
2.167	1.78	5.250	7.39	8.333	3.01	11.42	1.37
2.250	2.33	5.333	7.39	8.417	3.01	11.50	1.37
2.333	2.33	5.417	7.39	8.500	3.01	11.58	1.37
2.417	2.33	5.500	7.39	8.583	3.01	11.67	1.37
2.500	2.33	5.583	7.39	8.667	3.01	11.75	1.37
2.583	2.33	5.667	7.39	8.750	3.15	11.83	1.37
2.667	2.33	5.750	58.55	8.833	3.15	11.92	1.37
2.750	2.05	5.833	58.55	8.917	3.15	12.00	1.37
2.833	2.05	5.917	58.55	9.000	3.15	12.08	1.37
2.917	2.05	6.000	58.55	9.083	3.15	12.17	1.37
3.000	2.05	6.083	58.55	9.167	3.15		
3.083	2.05	6.167	58.55	9.250	2.05		

***** 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)
1 + 2 = 3				
ID1= 1 (0110):	1.01	0.075	6.17	35.31
+ ID2= 2 (0111):	5.27	0.056	6.67	8.27
=====				
ID = 3 (0006):	6.28	0.100	6.17	12.62

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB	Area (ha)	Curve Number (CN)
NASHYD (0141)	7.22	64.0
ID= 1 DT= 5.0 min	Ia (mm)= 15.20	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)= 0.44	

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	2.05	6.250	14.91	9.33	2.05
0.167	0.00	3.250	2.74	6.333	14.91	9.42	2.05
0.250	2.05	3.333	2.74	6.417	14.91	9.50	2.05
0.333	2.05	3.417	2.74	6.500	14.91	9.58	2.05
0.417	2.05	3.500	2.74	6.583	14.91	9.67	2.05
0.500	2.05	3.583	2.74	6.667	14.91	9.75	1.64
0.583	2.05	3.667	2.74	6.750	6.57	9.83	1.64

Unit Hyd Qpeak (cms)= 0.627

PEAK FLOW (cms)= 0.143 (i)
 TIME TO PEAK (hrs)= 6.583
 RUNOFF VOLUME (mm)= 14.433
 TOTAL RAINFALL (mm)= 68.400
 RUNOFF COEFFICIENT = 0.211

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

CALIB	Area (ha)	Dir. Conn.(%)
STANDHYD (0140)	0.76	
ID= 1 DT= 5.0 min	Total Imp(%)= 38.00	Dir. Conn.(%)= 38.00

Surface Area (ha)	IMPERVIOUS	PERVIOUS (i)
0.29	0.29	0.47
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

Storage Coeff. (min)= 2.58 (ii) 21.55 (ii)
 Unit Hyd. Tpeak (min)= 5.00 25.00
 Unit Hyd. peak (cms)= 0.29 0.05

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

TOTALS
 PEAK FLOW (cms)= 0.05 0.01 0.055 (iii)
 TIME TO PEAK (hrs)= 6.17 6.42 6.17
 RUNOFF VOLUME (mm)= 67.40 14.82 34.78
 TOTAL RAINFALL (mm)= 68.40 68.40 68.40
 RUNOFF COEFFICIENT = 0.99 0.22 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	2.05	6.250	14.91	9.33	2.05
0.167	0.00	3.250	2.74	6.333	14.91	9.42	2.05
0.250	2.05	3.333	2.74	6.417	14.91	9.50	2.05
0.333	2.05	3.417	2.74	6.500	14.91	9.58	2.05
0.417	2.05	3.500	2.74	6.583	14.91	9.67	2.05
0.500	2.05	3.583	2.74	6.667	14.91	9.75	1.64
0.583	2.05	3.667	2.74	6.750	6.57	9.83	1.64
0.667	2.05	3.750	2.74	6.833	6.57	9.92	1.64
0.750	0.96	3.833	2.74	6.917	6.57	10.00	1.64
0.833	0.96	3.917	2.74	7.000	6.57	10.08	1.64
0.917	0.96	4.000	2.74	7.083	6.57	10.17	1.64
1.000	0.96	4.083	2.74	7.167	6.57	10.25	2.33
1.083	0.96	4.167	2.74	7.250	4.38	10.33	2.33
1.167	0.96	4.250	3.69	7.333	4.38	10.42	2.33
1.250	1.78	4.333	3.69	7.417	4.38	10.50	2.33
1.333	1.78	4.417	3.69	7.500	4.38	10.58	2.33
1.417	1.78	4.500	3.69	7.583	4.38	10.67	2.33
1.500	1.78	4.583	3.69	7.667	4.38	10.75	1.50
1.583	1.78	4.667	3.69	7.750	3.83	10.83	1.50
1.667	1.78	4.750	4.65	7.833	3.83	10.92	1.50
1.750	1.78	4.833	4.65	7.917	3.83	11.00	1.50
1.833	1.78	4.917	4.65	8.000	3.83	11.08	1.50
1.917	1.78	5.000	4.65	8.083	3.83	11.17	1.50
2.000	1.78	5.083	4.65	8.167	3.83	11.25	1.37
2.083	1.78	5.167	4.65	8.250	3.01	11.33	1.37
2.167	1.78	5.250	7.39	8.333	3.01	11.42	1.37
2.250	2.33	5.333	7.39	8.417	3.01	11.50	1.37
2.333	2.33	5.417	7.39	8.500	3.01	11.58	1.37
2.417	2.33	5.500	7.39	8.583	3.01	11.67	1.37
2.500	2.33	5.583	7.39	8.667	3.01	11.75	1.37
2.583	2.33	5.667	7.39	8.750	3.15	11.83	1.37
2.667	2.33	5.750	58.55	8.833	3.15	11.92	1.37
2.750	2.05	5.833	58.55	8.917	3.15	12.00	1.37
2.833	2.05	5.917	58.55	9.000	3.15	12.08	1.37
2.917	2.05	6.000	58.55	9.083	3.15	12.17	1.37
3.000	2.05	6.083	58.55	9.167	3.15		
3.083	2.05	6.167	58.55	9.250	2.05		

Max.Eff.Inten.(mm/hr)= 58.55 13.99
 over (min) 5.00 25.00

***** 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 (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
1 + 2 = 3				
ID1= 1 (0140):	0.76	0.055	6.17	34.78
+ ID2= 2 (0141):	7.22	0.143	6.58	14.43
ID = 3 (0015):	7.98	0.165	6.58	16.37

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB	Area (ha)	Curve Number (CN)
NASHYD (0151)	14.07	66.0
ID= 1 DT= 5.0 min	Ia (mm)= 14.20	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)= 0.17	

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	2.05	6.250	14.91	9.33	2.05
0.167	0.00	3.250	2.74	6.333	14.91	9.42	2.05
0.250	2.05	3.333	2.74	6.417	14.91	9.50	2.05
0.333	2.05	3.417	2.74	6.500	14.91	9.58	2.05
0.417	2.05	3.500	2.74	6.583	14.91	9.67	2.05
0.500	2.05	3.583	2.74	6.667	14.91	9.75	1.64
0.583	2.05	3.667	2.74	6.750	6.57	9.83	1.64

0.667	2.05	3.750	2.74	6.833	6.57	9.92	1.64
0.750	0.96	3.833	2.74	6.917	6.57	10.00	1.64
0.833	0.96	3.917	2.74	7.000	6.57	10.08	1.64
0.917	0.96	4.000	2.74	7.083	6.57	10.17	1.64
1.000	0.96	4.083	2.74	7.167	6.57	10.25	2.33
1.083	0.96	4.167	2.74	7.250	4.38	10.33	2.33
1.167	0.96	4.250	3.69	7.333	4.38	10.42	2.33
1.250	1.78	4.333	3.69	7.417	4.38	10.50	2.33
1.333	1.78	4.417	3.69	7.500	4.38	10.58	2.33
1.417	1.78	4.500	3.69	7.583	4.38	10.67	2.33
1.500	1.78	4.583	3.69	7.667	4.38	10.75	1.50
1.583	1.78	4.667	3.69	7.750	3.83	10.83	1.50
1.667	1.78	4.750	4.65	7.833	3.83	10.92	1.50
1.750	1.78	4.833	4.65	7.917	3.83	11.00	1.50
1.833	1.78	4.917	4.65	8.000	3.83	11.08	1.50
1.917	1.78	5.000	4.65	8.083	3.83	11.17	1.50
2.000	1.78	5.083	4.65	8.167	3.83	11.25	1.37
2.083	1.78	5.167	4.65	8.250	3.01	11.33	1.37
2.167	1.78	5.250	7.39	8.333	3.01	11.42	1.37
2.250	2.33	5.333	7.39	8.417	3.01	11.50	1.37
2.333	2.33	5.417	7.39	8.500	3.01	11.58	1.37
2.417	2.33	5.500	7.39	8.583	3.01	11.67	1.37
2.500	2.33	5.583	7.39	8.667	3.01	11.75	1.37
2.583	2.33	5.667	7.39	8.750	3.15	11.83	1.37
2.667	2.33	5.750	58.55	8.833	3.15	11.92	1.37
2.750	2.05	5.833	58.55	8.917	3.15	12.00	1.37
2.833	2.05	5.917	58.55	9.000	3.15	12.08	1.37
2.917	2.05	6.000	58.55	9.083	3.15	12.17	1.37
3.000	2.05	6.083	58.55	9.167	3.15		
3.083	2.05	6.167	58.55	9.250	2.05		

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	2.05	6.250	14.91	9.33	2.05
0.167	0.00	3.250	2.74	6.333	14.91	9.42	2.05
0.250	2.05	3.333	2.74	6.417	14.91	9.50	2.05
0.333	2.05	3.417	2.74	6.500	14.91	9.58	2.05
0.417	2.05	3.500	2.74	6.583	14.91	9.67	2.05
0.500	2.05	3.583	2.74	6.667	14.91	9.75	1.64
0.583	2.05	3.667	2.74	6.750	6.57	9.83	1.64
0.667	2.05	3.750	2.74	6.833	6.57	9.92	1.64
0.750	0.96	3.833	2.74	6.917	6.57	10.00	1.64
0.833	0.96	3.917	2.74	7.000	6.57	10.08	1.64
0.917	0.96	4.000	2.74	7.083	6.57	10.17	1.64
1.000	0.96	4.083	2.74	7.167	6.57	10.25	2.33
1.083	0.96	4.167	2.74	7.250	4.38	10.33	2.33
1.167	0.96	4.250	3.69	7.333	4.38	10.42	2.33
1.250	1.78	4.333	3.69	7.417	4.38	10.50	2.33
1.333	1.78	4.417	3.69	7.500	4.38	10.58	2.33
1.417	1.78	4.500	3.69	7.583	4.38	10.67	2.33
1.500	1.78	4.583	3.69	7.667	4.38	10.75	1.50
1.583	1.78	4.667	3.69	7.750	3.83	10.83	1.50
1.667	1.78	4.750	4.65	7.833	3.83	10.92	1.50
1.750	1.78	4.833	4.65	7.917	3.83	11.00	1.50
1.833	1.78	4.917	4.65	8.000	3.83	11.08	1.50
1.917	1.78	5.000	4.65	8.083	3.83	11.17	1.50
2.000	1.78	5.083	4.65	8.167	3.83	11.25	1.37
2.083	1.78	5.167	4.65	8.250	3.01	11.33	1.37
2.167	1.78	5.250	7.39	8.333	3.01	11.42	1.37
2.250	2.33	5.333	7.39	8.417	3.01	11.50	1.37
2.333	2.33	5.417	7.39	8.500	3.01	11.58	1.37
2.417	2.33	5.500	7.39	8.583	3.01	11.67	1.37
2.500	2.33	5.583	7.39	8.667	3.01	11.75	1.37
2.583	2.33	5.667	7.39	8.750	3.15	11.83	1.37
2.667	2.33	5.750	58.55	8.833	3.15	11.92	1.37
2.750	2.05	5.833	58.55	8.917	3.15	12.00	1.37
2.833	2.05	5.917	58.55	9.000	3.15	12.08	1.37
2.917	2.05	6.000	58.55	9.083	3.15	12.17	1.37
3.000	2.05	6.083	58.55	9.167	3.15		
3.083	2.05	6.167	58.55	9.250	2.05		

Unit Hyd Qpeak (cms)= 3.161

PEAK FLOW (cms)= 0.522 (i)
TIME TO PEAK (hrs)= 6.167
RUNOFF VOLUME (mm)= 15.818
TOTAL RAINFALL (mm)= 68.400
RUNOFF COEFFICIENT = 0.231

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

| CALIB |
| STANDHYD (0150) | Area (ha)= 1.35
| ID= 1 DT= 5.0 min | Total Imp(%)= 39.00 Dir. Conn.(%)= 39.00

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 0.53 0.82
Dep. Storage (mm)= 1.00 5.00

Max.Eff.Inten.(mm/hr)= 58.55 13.99
over (min) 5.00 25.00

Storage Coeff. (min)= 3.06 (ii) 22.03 (ii)
 Unit Hyd. Tpeak (min)= 5.00 25.00
 Unit Hyd. peak (cms)= 0.27 0.05

PEAK FLOW (cms)= 0.09 0.02 0.100 (iii)
 TIME TO PEAK (hrs)= 6.17 6.42 6.17
 RUNOFF VOLUME (mm)= 67.40 14.82 35.32
 TOTAL RAINFALL (mm)= 68.40 68.40 68.40
 RUNOFF COEFFICIENT = 0.99 0.22 0.52

TOTALS

0.667	2.05	3.750	2.74	6.833	6.57	9.92	1.64
0.750	0.96	3.833	2.74	6.917	6.57	10.00	1.64
0.833	0.96	3.917	2.74	7.000	6.57	10.08	1.64
0.917	0.96	4.000	2.74	7.083	6.57	10.17	1.64
1.000	0.96	4.083	2.74	7.167	6.57	10.25	2.33
1.083	0.96	4.167	2.74	7.250	4.38	10.33	2.33
1.167	0.96	4.250	3.69	7.333	4.38	10.42	2.33
1.250	1.78	4.333	3.69	7.417	4.38	10.50	2.33
1.333	1.78	4.417	3.69	7.500	4.38	10.58	2.33
1.417	1.78	4.500	3.69	7.583	4.38	10.67	2.33
1.500	1.78	4.583	3.69	7.667	4.38	10.75	1.50
1.583	1.78	4.667	3.69	7.750	3.83	10.83	1.50
1.667	1.78	4.750	4.65	7.833	3.83	10.92	1.50
1.750	1.78	4.833	4.65	7.917	3.83	11.00	1.50
1.833	1.78	4.917	4.65	8.000	3.83	11.08	1.50
1.917	1.78	5.000	4.65	8.083	3.83	11.17	1.50
2.000	1.78	5.083	4.65	8.167	3.83	11.25	1.37
2.083	1.78	5.167	4.65	8.250	3.01	11.33	1.37
2.167	1.78	5.250	7.39	8.333	3.01	11.42	1.37
2.250	2.33	5.333	7.39	8.417	3.01	11.50	1.37
2.333	2.33	5.417	7.39	8.500	3.01	11.58	1.37
2.417	2.33	5.500	7.39	8.583	3.01	11.67	1.37
2.500	2.33	5.583	7.39	8.667	3.01	11.75	1.37
2.583	2.33	5.667	7.39	8.750	3.15	11.83	1.37
2.667	2.33	5.750	58.55	8.833	3.15	11.92	1.37
2.750	2.05	5.833	58.55	8.917	3.15	12.00	1.37
2.833	2.05	5.917	58.55	9.000	3.15	12.08	1.37
2.917	2.05	6.000	58.55	9.083	3.15	12.17	1.37
3.000	2.05	6.083	58.55	9.167	3.15		
3.083	2.05	6.167	58.55	9.250	2.05		

***** 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 (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
1 + 2 = 3				
ID1= 1 (0150):	1.35	0.100	6.17	35.32
+ ID2= 2 (0151):	14.07	0.522	6.17	15.82
=====				
ID = 3 (0018):	15.42	0.621	6.17	17.53

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB	Area (ha)	Curve Number (CN)
NASHYD (0261)	35.85	59.0
ID= 1 DT= 5.0 min	Ia (mm)= 18.50	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)= 1.23	

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	2.05	6.250	14.91	9.33	2.05
0.167	0.00	3.250	2.74	6.333	14.91	9.42	2.05
0.250	2.05	3.333	2.74	6.417	14.91	9.50	2.05
0.333	2.05	3.417	2.74	6.500	14.91	9.58	2.05
0.417	2.05	3.500	2.74	6.583	14.91	9.67	2.05
0.500	2.05	3.583	2.74	6.667	14.91	9.75	1.64
0.583	2.05	3.667	2.74	6.750	6.57	9.83	1.64

Unit Hyd Qpeak (cms)= 1.113

PEAK FLOW (cms)= 0.271 (i)
 TIME TO PEAK (hrs)= 7.667
 RUNOFF VOLUME (mm)= 10.998
 TOTAL RAINFALL (mm)= 68.400
 RUNOFF COEFFICIENT = 0.161

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

CALIB	Area (ha)	Dir. Conn.(%)
STANDHYD (0260)	3.40	40.00
ID= 1 DT= 5.0 min	Total Imp(%)= 40.00	Dir. Conn.(%)= 40.00

IMPERVIOUS PERVIOUS (i)
 Surface Area (ha)= 1.36 2.04
 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

Storage Coeff. (min)= 4.04 (ii) 18.20 (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)= 0.22 0.11 0.313 (iii)
 TIME TO PEAK (hrs)= 6.17 6.33 6.17
 RUNOFF VOLUME (mm)= 67.40 27.99 43.75
 TOTAL RAINFALL (mm)= 68.40 68.40 68.40
 RUNOFF COEFFICIENT = 0.99 0.41 0.64

---- 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	2.05	6.250	14.91	9.33	2.05
0.167	0.00	3.250	2.74	6.333	14.91	9.42	2.05
0.250	2.05	3.333	2.74	6.417	14.91	9.50	2.05
0.333	2.05	3.417	2.74	6.500	14.91	9.58	2.05
0.417	2.05	3.500	2.74	6.583	14.91	9.67	2.05
0.500	2.05	3.583	2.74	6.667	14.91	9.75	1.64
0.583	2.05	3.667	2.74	6.750	6.57	9.83	1.64
0.667	2.05	3.750	2.74	6.833	6.57	9.92	1.64
0.750	0.96	3.833	2.74	6.917	6.57	10.00	1.64
0.833	0.96	3.917	2.74	7.000	6.57	10.08	1.64
0.917	0.96	4.000	2.74	7.083	6.57	10.17	1.64
1.000	0.96	4.083	2.74	7.167	6.57	10.25	2.33
1.083	0.96	4.167	2.74	7.250	4.38	10.33	2.33
1.167	0.96	4.250	3.69	7.333	4.38	10.42	2.33
1.250	1.78	4.333	3.69	7.417	4.38	10.50	2.33
1.333	1.78	4.417	3.69	7.500	4.38	10.58	2.33
1.417	1.78	4.500	3.69	7.583	4.38	10.67	2.33
1.500	1.78	4.583	3.69	7.667	4.38	10.75	1.50
1.583	1.78	4.667	3.69	7.750	3.83	10.83	1.50
1.667	1.78	4.750	4.65	7.833	3.83	10.92	1.50
1.750	1.78	4.833	4.65	7.917	3.83	11.00	1.50
1.833	1.78	4.917	4.65	8.000	3.83	11.08	1.50
1.917	1.78	5.000	4.65	8.083	3.83	11.17	1.50
2.000	1.78	5.083	4.65	8.167	3.83	11.25	1.37
2.083	1.78	5.167	4.65	8.250	3.01	11.33	1.37
2.167	1.78	5.250	7.39	8.333	3.01	11.42	1.37
2.250	2.33	5.333	7.39	8.417	3.01	11.50	1.37
2.333	2.33	5.417	7.39	8.500	3.01	11.58	1.37
2.417	2.33	5.500	7.39	8.583	3.01	11.67	1.37
2.500	2.33	5.583	7.39	8.667	3.01	11.75	1.37
2.583	2.33	5.667	7.39	8.750	3.15	11.83	1.37
2.667	2.33	5.750	58.55	8.833	3.15	11.92	1.37
2.750	2.05	5.833	58.55	8.917	3.15	12.00	1.37
2.833	2.05	5.917	58.55	9.000	3.15	12.08	1.37
2.917	2.05	6.000	58.55	9.083	3.15	12.17	1.37
3.000	2.05	6.083	58.55	9.167	3.15		
3.083	2.05	6.167	58.55	9.250	2.05		

Max.Eff.Inten.(mm/hr)= 58.55 29.05
 over (min) 5.00 20.00

***** 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 (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
1 + 2 = 3				
ID1= 1 (0260):	3.40	0.313	6.17	43.75
+ ID2= 2 (0261):	35.85	0.271	7.67	11.00
=====				
ID = 3 (0051):	39.25	0.338	6.17	13.83

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB	Area (ha)	Curve Number (CN)
NASHYD (0101)	7.90	62.0
ID= 1 DT= 5.0 min	Ia (mm)= 16.60	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)= 0.34	

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	2.05	6.250	14.91	9.33	2.05
0.167	0.00	3.250	2.74	6.333	14.91	9.42	2.05
0.250	2.05	3.333	2.74	6.417	14.91	9.50	2.05
0.333	2.05	3.417	2.74	6.500	14.91	9.58	2.05
0.417	2.05	3.500	2.74	6.583	14.91	9.67	2.05
0.500	2.05	3.583	2.74	6.667	14.91	9.75	1.64
0.583	2.05	3.667	2.74	6.750	6.57	9.83	1.64

0.667	2.05	3.750	2.74	6.833	6.57	9.92	1.64
0.750	0.96	3.833	2.74	6.917	6.57	10.00	1.64
0.833	0.96	3.917	2.74	7.000	6.57	10.08	1.64
0.917	0.96	4.000	2.74	7.083	6.57	10.17	1.64
1.000	0.96	4.083	2.74	7.167	6.57	10.25	2.33
1.083	0.96	4.167	2.74	7.250	4.38	10.33	2.33
1.167	0.96	4.250	3.69	7.333	4.38	10.42	2.33
1.250	1.78	4.333	3.69	7.417	4.38	10.50	2.33
1.333	1.78	4.417	3.69	7.500	4.38	10.58	2.33
1.417	1.78	4.500	3.69	7.583	4.38	10.67	2.33
1.500	1.78	4.583	3.69	7.667	4.38	10.75	1.50
1.583	1.78	4.667	3.69	7.750	3.83	10.83	1.50
1.667	1.78	4.750	4.65	7.833	3.83	10.92	1.50
1.750	1.78	4.833	4.65	7.917	3.83	11.00	1.50
1.833	1.78	4.917	4.65	8.000	3.83	11.08	1.50
1.917	1.78	5.000	4.65	8.083	3.83	11.17	1.50
2.000	1.78	5.083	4.65	8.167	3.83	11.25	1.37
2.083	1.78	5.167	4.65	8.250	3.01	11.33	1.37
2.167	1.78	5.250	7.39	8.333	3.01	11.42	1.37
2.250	2.33	5.333	7.39	8.417	3.01	11.50	1.37
2.333	2.33	5.417	7.39	8.500	3.01	11.58	1.37
2.417	2.33	5.500	7.39	8.583	3.01	11.67	1.37
2.500	2.33	5.583	7.39	8.667	3.01	11.75	1.37
2.583	2.33	5.667	7.39	8.750	3.15	11.83	1.37
2.667	2.33	5.750	58.55	8.833	3.15	11.92	1.37
2.750	2.05	5.833	58.55	8.917	3.15	12.00	1.37
2.833	2.05	5.917	58.55	9.000	3.15	12.08	1.37
2.917	2.05	6.000	58.55	9.083	3.15	12.17	1.37
3.000	2.05	6.083	58.55	9.167	3.15		
3.083	2.05	6.167	58.55	9.250	2.05		

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	2.05	6.250	14.91	9.33	2.05
0.167	0.00	3.250	2.74	6.333	14.91	9.42	2.05
0.250	2.05	3.333	2.74	6.417	14.91	9.50	2.05
0.333	2.05	3.417	2.74	6.500	14.91	9.58	2.05
0.417	2.05	3.500	2.74	6.583	14.91	9.67	2.05
0.500	2.05	3.583	2.74	6.667	14.91	9.75	1.64
0.583	2.05	3.667	2.74	6.750	6.57	9.83	1.64
0.667	2.05	3.750	2.74	6.833	6.57	9.92	1.64
0.750	0.96	3.833	2.74	6.917	6.57	10.00	1.64
0.833	0.96	3.917	2.74	7.000	6.57	10.08	1.64
0.917	0.96	4.000	2.74	7.083	6.57	10.17	1.64
1.000	0.96	4.083	2.74	7.167	6.57	10.25	2.33
1.083	0.96	4.167	2.74	7.250	4.38	10.33	2.33
1.167	0.96	4.250	3.69	7.333	4.38	10.42	2.33
1.250	1.78	4.333	3.69	7.417	4.38	10.50	2.33
1.333	1.78	4.417	3.69	7.500	4.38	10.58	2.33
1.417	1.78	4.500	3.69	7.583	4.38	10.67	2.33
1.500	1.78	4.583	3.69	7.667	4.38	10.75	1.50
1.583	1.78	4.667	3.69	7.750	3.83	10.83	1.50
1.667	1.78	4.750	4.65	7.833	3.83	10.92	1.50
1.750	1.78	4.833	4.65	7.917	3.83	11.00	1.50
1.833	1.78	4.917	4.65	8.000	3.83	11.08	1.50
1.917	1.78	5.000	4.65	8.083	3.83	11.17	1.50
2.000	1.78	5.083	4.65	8.167	3.83	11.25	1.37
2.083	1.78	5.167	4.65	8.250	3.01	11.33	1.37
2.167	1.78	5.250	7.39	8.333	3.01	11.42	1.37
2.250	2.33	5.333	7.39	8.417	3.01	11.50	1.37
2.333	2.33	5.417	7.39	8.500	3.01	11.58	1.37
2.417	2.33	5.500	7.39	8.583	3.01	11.67	1.37
2.500	2.33	5.583	7.39	8.667	3.01	11.75	1.37
2.583	2.33	5.667	7.39	8.750	3.15	11.83	1.37
2.667	2.33	5.750	58.55	8.833	3.15	11.92	1.37
2.750	2.05	5.833	58.55	8.917	3.15	12.00	1.37
2.833	2.05	5.917	58.55	9.000	3.15	12.08	1.37
2.917	2.05	6.000	58.55	9.083	3.15	12.17	1.37
3.000	2.05	6.083	58.55	9.167	3.15		
3.083	2.05	6.167	58.55	9.250	2.05		

Unit Hyd Qpeak (cms)= 0.887

PEAK FLOW (cms)= 0.159 (i)
TIME TO PEAK (hrs)= 6.417
RUNOFF VOLUME (mm)= 12.930
TOTAL RAINFALL (mm)= 68.400
RUNOFF COEFFICIENT = 0.189

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

| CALIB |
| STANDHYD (0100) | Area (ha)= 0.91
| ID= 1 DT= 5.0 min | Total Imp(%)= 62.00 Dir. Conn.(%)= 62.00

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 0.56 0.35
Dep. Storage (mm)= 1.00 5.00

Max.Eff.Inten.(mm/hr)= 58.55 20.60
over (min) 5.00 20.00

Storage Coeff. (min)= 2.72 (ii) 19.24 (ii)
 Unit Hyd. Tpeak (min)= 5.00 20.00
 Unit Hyd. peak (cms)= 0.29 0.06

PEAK FLOW (cms)= 0.09 0.01 0.103 (iii)
 TIME TO PEAK (hrs)= 6.17 6.33 6.17
 RUNOFF VOLUME (mm)= 67.40 21.32 49.88
 TOTAL RAINFALL (mm)= 68.40 68.40 68.40
 RUNOFF COEFFICIENT = 0.99 0.31 0.73

TOTALS

0.667	2.05	3.750	2.74	6.833	6.57	9.92	1.64
0.750	0.96	3.833	2.74	6.917	6.57	10.00	1.64
0.833	0.96	3.917	2.74	7.000	6.57	10.08	1.64
0.917	0.96	4.000	2.74	7.083	6.57	10.17	1.64
1.000	0.96	4.083	2.74	7.167	6.57	10.25	2.33
1.083	0.96	4.167	2.74	7.250	4.38	10.33	2.33
1.167	0.96	4.250	3.69	7.333	4.38	10.42	2.33
1.250	1.78	4.333	3.69	7.417	4.38	10.50	2.33
1.333	1.78	4.417	3.69	7.500	4.38	10.58	2.33
1.417	1.78	4.500	3.69	7.583	4.38	10.67	2.33
1.500	1.78	4.583	3.69	7.667	4.38	10.75	1.50
1.583	1.78	4.667	3.69	7.750	3.83	10.83	1.50
1.667	1.78	4.750	4.65	7.833	3.83	10.92	1.50
1.750	1.78	4.833	4.65	7.917	3.83	11.00	1.50
1.833	1.78	4.917	4.65	8.000	3.83	11.08	1.50
1.917	1.78	5.000	4.65	8.083	3.83	11.17	1.50
2.000	1.78	5.083	4.65	8.167	3.83	11.25	1.37
2.083	1.78	5.167	4.65	8.250	3.01	11.33	1.37
2.167	1.78	5.250	7.39	8.333	3.01	11.42	1.37
2.250	2.33	5.333	7.39	8.417	3.01	11.50	1.37
2.333	2.33	5.417	7.39	8.500	3.01	11.58	1.37
2.417	2.33	5.500	7.39	8.583	3.01	11.67	1.37
2.500	2.33	5.583	7.39	8.667	3.01	11.75	1.37
2.583	2.33	5.667	7.39	8.750	3.15	11.83	1.37
2.667	2.33	5.750	58.55	8.833	3.15	11.92	1.37
2.750	2.05	5.833	58.55	8.917	3.15	12.00	1.37
2.833	2.05	5.917	58.55	9.000	3.15	12.08	1.37
2.917	2.05	6.000	58.55	9.083	3.15	12.17	1.37
3.000	2.05	6.083	58.55	9.167	3.15		
3.083	2.05	6.167	58.55	9.250	2.05		

***** 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)
1 + 2 = 3				
ID1= 1 (0100):	0.91	0.103	6.17	49.88
+ ID2= 2 (0101):	7.90	0.159	6.42	12.93
=====				
ID = 3 (0003):	8.81	0.209	6.17	16.75

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB	Area (ha)	Curve Number (CN)
NASHYD (0231)	33.58	59.0
ID= 1 DT= 5.0 min	Ia (mm)= 18.50	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)= 0.29	

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	2.05	6.250	14.91	9.33	2.05
0.167	0.00	3.250	2.74	6.333	14.91	9.42	2.05
0.250	2.05	3.333	2.74	6.417	14.91	9.50	2.05
0.333	2.05	3.417	2.74	6.500	14.91	9.58	2.05
0.417	2.05	3.500	2.74	6.583	14.91	9.67	2.05
0.500	2.05	3.583	2.74	6.667	14.91	9.75	1.64
0.583	2.05	3.667	2.74	6.750	6.57	9.83	1.64

Unit Hyd Qpeak (cms)= 4.423

PEAK FLOW (cms)= 0.603 (i)
 TIME TO PEAK (hrs)= 6.333
 RUNOFF VOLUME (mm)= 10.993
 TOTAL RAINFALL (mm)= 68.400
 RUNOFF COEFFICIENT = 0.161

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

CALIB	Area (ha)	Dir. Conn.(%)
STANDHYD (0230)	3.07	
ID= 1 DT= 5.0 min	Total Imp(%)= 58.00	Dir. Conn.(%)= 58.00

	IMPERVIOUS (ha)	PERVIOUS (i)
Surface Area	1.78	1.29
Dep. Storage	1.00	5.00

Average Slope (%)= 1.00 2.00
 Length (m)= 143.00 40.00
 Mannings n = 0.013 0.350

Storage Coeff. (min)= 3.92 (ii) 21.25 (ii)
 Unit Hyd. Tpeak (min)= 5.00 25.00
 Unit Hyd. peak (cms)= 0.24 0.05

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

TOTALS
 PEAK FLOW (cms)= 0.29 0.04 0.318 (iii)
 TIME TO PEAK (hrs)= 6.17 6.42 6.17
 RUNOFF VOLUME (mm)= 67.40 18.35 46.79
 TOTAL RAINFALL (mm)= 68.40 68.40 68.40
 RUNOFF COEFFICIENT = 0.99 0.27 0.68

---- 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	2.05	6.250	14.91	9.33	2.05
0.167	0.00	3.250	2.74	6.333	14.91	9.42	2.05
0.250	2.05	3.333	2.74	6.417	14.91	9.50	2.05
0.333	2.05	3.417	2.74	6.500	14.91	9.58	2.05
0.417	2.05	3.500	2.74	6.583	14.91	9.67	2.05
0.500	2.05	3.583	2.74	6.667	14.91	9.75	1.64
0.583	2.05	3.667	2.74	6.750	6.57	9.83	1.64
0.667	2.05	3.750	2.74	6.833	6.57	9.92	1.64
0.750	0.96	3.833	2.74	6.917	6.57	10.00	1.64
0.833	0.96	3.917	2.74	7.000	6.57	10.08	1.64
0.917	0.96	4.000	2.74	7.083	6.57	10.17	1.64
1.000	0.96	4.083	2.74	7.167	6.57	10.25	2.33
1.083	0.96	4.167	2.74	7.250	4.38	10.33	2.33
1.167	0.96	4.250	3.69	7.333	4.38	10.42	2.33
1.250	1.78	4.333	3.69	7.417	4.38	10.50	2.33
1.333	1.78	4.417	3.69	7.500	4.38	10.58	2.33
1.417	1.78	4.500	3.69	7.583	4.38	10.67	2.33
1.500	1.78	4.583	3.69	7.667	4.38	10.75	1.50
1.583	1.78	4.667	3.69	7.750	3.83	10.83	1.50
1.667	1.78	4.750	4.65	7.833	3.83	10.92	1.50
1.750	1.78	4.833	4.65	7.917	3.83	11.00	1.50
1.833	1.78	4.917	4.65	8.000	3.83	11.08	1.50
1.917	1.78	5.000	4.65	8.083	3.83	11.17	1.50
2.000	1.78	5.083	4.65	8.167	3.83	11.25	1.37
2.083	1.78	5.167	4.65	8.250	3.01	11.33	1.37
2.167	1.78	5.250	7.39	8.333	3.01	11.42	1.37
2.250	2.33	5.333	7.39	8.417	3.01	11.50	1.37
2.333	2.33	5.417	7.39	8.500	3.01	11.58	1.37
2.417	2.33	5.500	7.39	8.583	3.01	11.67	1.37
2.500	2.33	5.583	7.39	8.667	3.01	11.75	1.37
2.583	2.33	5.667	7.39	8.750	3.15	11.83	1.37
2.667	2.33	5.750	58.55	8.833	3.15	11.92	1.37
2.750	2.05	5.833	58.55	8.917	3.15	12.00	1.37
2.833	2.05	5.917	58.55	9.000	3.15	12.08	1.37
2.917	2.05	6.000	58.55	9.083	3.15	12.17	1.37
3.000	2.05	6.083	58.55	9.167	3.15		
3.083	2.05	6.167	58.55	9.250	2.05		

Max.Eff.Inten.(mm/hr)= 58.55 17.54
 over (min) 5.00 25.00

***** 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.

ADD HYD (0042)	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
1 + 2 = 3				
ID1= 1 (0230):	3.07	0.318	6.17	46.79
+ ID2= 2 (0231):	33.58	0.603	6.33	10.99
ID = 3 (0042):	36.65	0.759	6.17	13.99

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB	Area (ha)	Curve Number (CN)
NASHYD (0221)	14.91	58.0
ID= 1 DT= 5.0 min	Ia (mm)= 19.10	# 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	2.05	6.250	14.91	9.33	2.05
0.167	0.00	3.250	2.74	6.333	14.91	9.42	2.05
0.250	2.05	3.333	2.74	6.417	14.91	9.50	2.05
0.333	2.05	3.417	2.74	6.500	14.91	9.58	2.05
0.417	2.05	3.500	2.74	6.583	14.91	9.67	2.05
0.500	2.05	3.583	2.74	6.667	14.91	9.75	1.64
0.583	2.05	3.667	2.74	6.750	6.57	9.83	1.64

0.667	2.05	3.750	2.74	6.833	6.57	9.92	1.64
0.750	0.96	3.833	2.74	6.917	6.57	10.00	1.64
0.833	0.96	3.917	2.74	7.000	6.57	10.08	1.64
0.917	0.96	4.000	2.74	7.083	6.57	10.17	1.64
1.000	0.96	4.083	2.74	7.167	6.57	10.25	2.33
1.083	0.96	4.167	2.74	7.250	4.38	10.33	2.33
1.167	0.96	4.250	3.69	7.333	4.38	10.42	2.33
1.250	1.78	4.333	3.69	7.417	4.38	10.50	2.33
1.333	1.78	4.417	3.69	7.500	4.38	10.58	2.33
1.417	1.78	4.500	3.69	7.583	4.38	10.67	2.33
1.500	1.78	4.583	3.69	7.667	4.38	10.75	1.50
1.583	1.78	4.667	3.69	7.750	3.83	10.83	1.50
1.667	1.78	4.750	4.65	7.833	3.83	10.92	1.50
1.750	1.78	4.833	4.65	7.917	3.83	11.00	1.50
1.833	1.78	4.917	4.65	8.000	3.83	11.08	1.50
1.917	1.78	5.000	4.65	8.083	3.83	11.17	1.50
2.000	1.78	5.083	4.65	8.167	3.83	11.25	1.37
2.083	1.78	5.167	4.65	8.250	3.01	11.33	1.37
2.167	1.78	5.250	7.39	8.333	3.01	11.42	1.37
2.250	2.33	5.333	7.39	8.417	3.01	11.50	1.37
2.333	2.33	5.417	7.39	8.500	3.01	11.58	1.37
2.417	2.33	5.500	7.39	8.583	3.01	11.67	1.37
2.500	2.33	5.583	7.39	8.667	3.01	11.75	1.37
2.583	2.33	5.667	7.39	8.750	3.15	11.83	1.37
2.667	2.33	5.750	58.55	8.833	3.15	11.92	1.37
2.750	2.05	5.833	58.55	8.917	3.15	12.00	1.37
2.833	2.05	5.917	58.55	9.000	3.15	12.08	1.37
2.917	2.05	6.000	58.55	9.083	3.15	12.17	1.37
3.000	2.05	6.083	58.55	9.167	3.15		
3.083	2.05	6.167	58.55	9.250	2.05		

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	2.05	6.250	14.91	9.33	2.05
0.167	0.00	3.250	2.74	6.333	14.91	9.42	2.05
0.250	2.05	3.333	2.74	6.417	14.91	9.50	2.05
0.333	2.05	3.417	2.74	6.500	14.91	9.58	2.05
0.417	2.05	3.500	2.74	6.583	14.91	9.67	2.05
0.500	2.05	3.583	2.74	6.667	14.91	9.75	1.64
0.583	2.05	3.667	2.74	6.750	6.57	9.83	1.64
0.667	2.05	3.750	2.74	6.833	6.57	9.92	1.64
0.750	0.96	3.833	2.74	6.917	6.57	10.00	1.64
0.833	0.96	3.917	2.74	7.000	6.57	10.08	1.64
0.917	0.96	4.000	2.74	7.083	6.57	10.17	1.64
1.000	0.96	4.083	2.74	7.167	6.57	10.25	2.33
1.083	0.96	4.167	2.74	7.250	4.38	10.33	2.33
1.167	0.96	4.250	3.69	7.333	4.38	10.42	2.33
1.250	1.78	4.333	3.69	7.417	4.38	10.50	2.33
1.333	1.78	4.417	3.69	7.500	4.38	10.58	2.33
1.417	1.78	4.500	3.69	7.583	4.38	10.67	2.33
1.500	1.78	4.583	3.69	7.667	4.38	10.75	1.50
1.583	1.78	4.667	3.69	7.750	3.83	10.83	1.50
1.667	1.78	4.750	4.65	7.833	3.83	10.92	1.50
1.750	1.78	4.833	4.65	7.917	3.83	11.00	1.50
1.833	1.78	4.917	4.65	8.000	3.83	11.08	1.50
1.917	1.78	5.000	4.65	8.083	3.83	11.17	1.50
2.000	1.78	5.083	4.65	8.167	3.83	11.25	1.37
2.083	1.78	5.167	4.65	8.250	3.01	11.33	1.37
2.167	1.78	5.250	7.39	8.333	3.01	11.42	1.37
2.250	2.33	5.333	7.39	8.417	3.01	11.50	1.37
2.333	2.33	5.417	7.39	8.500	3.01	11.58	1.37
2.417	2.33	5.500	7.39	8.583	3.01	11.67	1.37
2.500	2.33	5.583	7.39	8.667	3.01	11.75	1.37
2.583	2.33	5.667	7.39	8.750	3.15	11.83	1.37
2.667	2.33	5.750	58.55	8.833	3.15	11.92	1.37
2.750	2.05	5.833	58.55	8.917	3.15	12.00	1.37
2.833	2.05	5.917	58.55	9.000	3.15	12.08	1.37
2.917	2.05	6.000	58.55	9.083	3.15	12.17	1.37
3.000	2.05	6.083	58.55	9.167	3.15		
3.083	2.05	6.167	58.55	9.250	2.05		

Unit Hyd Qpeak (cms)= 1.424

PEAK FLOW (cms)= 0.209 (i)
TIME TO PEAK (hrs)= 6.583
RUNOFF VOLUME (mm)= 10.420
TOTAL RAINFALL (mm)= 68.400
RUNOFF COEFFICIENT = 0.152

(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

Max.Eff.Inten.(mm/hr)= 58.55 57.58
over (min) 5.00 5.00

Storage Coeff. (min)= 2.69 (ii) 4.40 (ii)
 Unit Hyd. Tpeak (min)= 5.00 5.00
 Unit Hyd. peak (cms)= 0.29 0.23

TOTALS

PEAK FLOW (cms)= 0.14 0.00 0.143 (iii)
 TIME TO PEAK (hrs)= 6.17 6.17 6.17
 RUNOFF VOLUME (mm)= 67.40 58.61 67.31
 TOTAL RAINFALL (mm)= 68.40 68.40 68.40
 RUNOFF COEFFICIENT = 0.99 0.86 0.98

0.667	2.05	3.750	2.74	6.833	6.57	9.92	1.64
0.750	0.96	3.833	2.74	6.917	6.57	10.00	1.64
0.833	0.96	3.917	2.74	7.000	6.57	10.08	1.64
0.917	0.96	4.000	2.74	7.083	6.57	10.17	1.64
1.000	0.96	4.083	2.74	7.167	6.57	10.25	2.33
1.083	0.96	4.167	2.74	7.250	4.38	10.33	2.33
1.167	0.96	4.250	3.69	7.333	4.38	10.42	2.33
1.250	1.78	4.333	3.69	7.417	4.38	10.50	2.33
1.333	1.78	4.417	3.69	7.500	4.38	10.58	2.33
1.417	1.78	4.500	3.69	7.583	4.38	10.67	2.33
1.500	1.78	4.583	3.69	7.667	4.38	10.75	1.50
1.583	1.78	4.667	3.69	7.750	3.83	10.83	1.50
1.667	1.78	4.750	4.65	7.833	3.83	10.92	1.50
1.750	1.78	4.833	4.65	7.917	3.83	11.00	1.50
1.833	1.78	4.917	4.65	8.000	3.83	11.08	1.50
1.917	1.78	5.000	4.65	8.083	3.83	11.17	1.50
2.000	1.78	5.083	4.65	8.167	3.83	11.25	1.37
2.083	1.78	5.167	4.65	8.250	3.01	11.33	1.37
2.167	1.78	5.250	7.39	8.333	3.01	11.42	1.37
2.250	2.33	5.333	7.39	8.417	3.01	11.50	1.37
2.333	2.33	5.417	7.39	8.500	3.01	11.58	1.37
2.417	2.33	5.500	7.39	8.583	3.01	11.67	1.37
2.500	2.33	5.583	7.39	8.667	3.01	11.75	1.37
2.583	2.33	5.667	7.39	8.750	3.15	11.83	1.37
2.667	2.33	5.750	58.55	8.833	3.15	11.92	1.37
2.750	2.05	5.833	58.55	8.917	3.15	12.00	1.37
2.833	2.05	5.917	58.55	9.000	3.15	12.08	1.37
2.917	2.05	6.000	58.55	9.083	3.15	12.17	1.37
3.000	2.05	6.083	58.55	9.167	3.15		
3.083	2.05	6.167	58.55	9.250	2.05		

***** 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 (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
1 + 2 = 3				
ID1= 1 (0220):	0.88	0.143	6.17	67.31
+ ID2= 2 (0221):	14.91	0.209	6.58	10.42
=====				
ID = 3 (0039):	15.79	0.251	6.17	13.59

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)= 0.94	

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	2.05	6.250	14.91	9.33	2.05
0.167	0.00	3.250	2.74	6.333	14.91	9.42	2.05
0.250	2.05	3.333	2.74	6.417	14.91	9.50	2.05
0.333	2.05	3.417	2.74	6.500	14.91	9.58	2.05
0.417	2.05	3.500	2.74	6.583	14.91	9.67	2.05
0.500	2.05	3.583	2.74	6.667	14.91	9.75	1.64
0.583	2.05	3.667	2.74	6.750	6.57	9.83	1.64

Unit Hyd Qpeak (cms)= 5.334

PEAK FLOW (cms)= 3.019 (i)
 TIME TO PEAK (hrs)= 7.167
 RUNOFF VOLUME (mm)= 24.753
 TOTAL RAINFALL (mm)= 68.400
 RUNOFF COEFFICIENT = 0.362

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

CALIB	Area (ha)	Dir. Conn.(%)
STANDHYD (0160)	3.05	
ID= 1 DT= 5.0 min	Total Imp(%)= 39.00	Dir. Conn.(%)= 39.00

	IMPERVIOUS (ha)	PERVIOUS (i)
Surface Area	1.19	1.86
Dep. Storage	1.00	5.00

Average Slope (%)= 1.00 2.00
 Length (m)= 142.49 40.00
 Mannings n = 0.013 0.350

Storage Coeff. (min)= 3.91 (ii) 22.88 (ii)
 Unit Hyd. Tpeak (min)= 5.00 25.00
 Unit Hyd. peak (cms)= 0.25 0.05

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

TOTALS
 PEAK FLOW (cms)= 0.19 0.04 0.224 (iii)
 TIME TO PEAK (hrs)= 6.17 6.42 6.17
 RUNOFF VOLUME (mm)= 67.40 14.82 35.32
 TOTAL RAINFALL (mm)= 68.40 68.40 68.40
 RUNOFF COEFFICIENT = 0.99 0.22 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	2.05	6.250	14.91	9.33	2.05
0.167	0.00	3.250	2.74	6.333	14.91	9.42	2.05
0.250	2.05	3.333	2.74	6.417	14.91	9.50	2.05
0.333	2.05	3.417	2.74	6.500	14.91	9.58	2.05
0.417	2.05	3.500	2.74	6.583	14.91	9.67	2.05
0.500	2.05	3.583	2.74	6.667	14.91	9.75	1.64
0.583	2.05	3.667	2.74	6.750	6.57	9.83	1.64
0.667	2.05	3.750	2.74	6.833	6.57	9.92	1.64
0.750	0.96	3.833	2.74	6.917	6.57	10.00	1.64
0.833	0.96	3.917	2.74	7.000	6.57	10.08	1.64
0.917	0.96	4.000	2.74	7.083	6.57	10.17	1.64
1.000	0.96	4.083	2.74	7.167	6.57	10.25	2.33
1.083	0.96	4.167	2.74	7.250	4.38	10.33	2.33
1.167	0.96	4.250	3.69	7.333	4.38	10.42	2.33
1.250	1.78	4.333	3.69	7.417	4.38	10.50	2.33
1.333	1.78	4.417	3.69	7.500	4.38	10.58	2.33
1.417	1.78	4.500	3.69	7.583	4.38	10.67	2.33
1.500	1.78	4.583	3.69	7.667	4.38	10.75	1.50
1.583	1.78	4.667	3.69	7.750	3.83	10.83	1.50
1.667	1.78	4.750	4.65	7.833	3.83	10.92	1.50
1.750	1.78	4.833	4.65	7.917	3.83	11.00	1.50
1.833	1.78	4.917	4.65	8.000	3.83	11.08	1.50
1.917	1.78	5.000	4.65	8.083	3.83	11.17	1.50
2.000	1.78	5.083	4.65	8.167	3.83	11.25	1.37
2.083	1.78	5.167	4.65	8.250	3.01	11.33	1.37
2.167	1.78	5.250	7.39	8.333	3.01	11.42	1.37
2.250	2.33	5.333	7.39	8.417	3.01	11.50	1.37
2.333	2.33	5.417	7.39	8.500	3.01	11.58	1.37
2.417	2.33	5.500	7.39	8.583	3.01	11.67	1.37
2.500	2.33	5.583	7.39	8.667	3.01	11.75	1.37
2.583	2.33	5.667	7.39	8.750	3.15	11.83	1.37
2.667	2.33	5.750	58.55	8.833	3.15	11.92	1.37
2.750	2.05	5.833	58.55	8.917	3.15	12.00	1.37
2.833	2.05	5.917	58.55	9.000	3.15	12.08	1.37
2.917	2.05	6.000	58.55	9.083	3.15	12.17	1.37
3.000	2.05	6.083	58.55	9.167	3.15		
3.083	2.05	6.167	58.55	9.250	2.05		

Max.Eff.Inten.(mm/hr)= 58.55 13.99
 over (min) 5.00 25.00

***** 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	0.224	6.17	35.32
+ ID2= 2 (0161):	131.28	3.019	7.17	24.75
=====				
ID = 3 (0021):	134.33	3.061	7.17	24.99

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB	Area	Curve Number
NASHYD (0271)	(ha)	(CN)=
ID= 1 DT= 5.0 min	26.76	60.0
	Ia (mm)= 18.70	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)= 0.22	

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	2.05	6.250	14.91	9.33	2.05
0.167	0.00	3.250	2.74	6.333	14.91	9.42	2.05
0.250	2.05	3.333	2.74	6.417	14.91	9.50	2.05
0.333	2.05	3.417	2.74	6.500	14.91	9.58	2.05
0.417	2.05	3.500	2.74	6.583	14.91	9.67	2.05
0.500	2.05	3.583	2.74	6.667	14.91	9.75	1.64
0.583	2.05	3.667	2.74	6.750	6.57	9.83	1.64

0.667	2.05	3.750	2.74	6.833	6.57	9.92	1.64
0.750	0.96	3.833	2.74	6.917	6.57	10.00	1.64
0.833	0.96	3.917	2.74	7.000	6.57	10.08	1.64
0.917	0.96	4.000	2.74	7.083	6.57	10.17	1.64
1.000	0.96	4.083	2.74	7.167	6.57	10.25	2.33
1.083	0.96	4.167	2.74	7.250	4.38	10.33	2.33
1.167	0.96	4.250	3.69	7.333	4.38	10.42	2.33
1.250	1.78	4.333	3.69	7.417	4.38	10.50	2.33
1.333	1.78	4.417	3.69	7.500	4.38	10.58	2.33
1.417	1.78	4.500	3.69	7.583	4.38	10.67	2.33
1.500	1.78	4.583	3.69	7.667	4.38	10.75	1.50
1.583	1.78	4.667	3.69	7.750	3.83	10.83	1.50
1.667	1.78	4.750	4.65	7.833	3.83	10.92	1.50
1.750	1.78	4.833	4.65	7.917	3.83	11.00	1.50
1.833	1.78	4.917	4.65	8.000	3.83	11.08	1.50
1.917	1.78	5.000	4.65	8.083	3.83	11.17	1.50
2.000	1.78	5.083	4.65	8.167	3.83	11.25	1.37
2.083	1.78	5.167	4.65	8.250	3.01	11.33	1.37
2.167	1.78	5.250	7.39	8.333	3.01	11.42	1.37
2.250	2.33	5.333	7.39	8.417	3.01	11.50	1.37
2.333	2.33	5.417	7.39	8.500	3.01	11.58	1.37
2.417	2.33	5.500	7.39	8.583	3.01	11.67	1.37
2.500	2.33	5.583	7.39	8.667	3.01	11.75	1.37
2.583	2.33	5.667	7.39	8.750	3.15	11.83	1.37
2.667	2.33	5.750	58.55	8.833	3.15	11.92	1.37
2.750	2.05	5.833	58.55	8.917	3.15	12.00	1.37
2.833	2.05	5.917	58.55	9.000	3.15	12.08	1.37
2.917	2.05	6.000	58.55	9.083	3.15	12.17	1.37
3.000	2.05	6.083	58.55	9.167	3.15		
3.083	2.05	6.167	58.55	9.250	2.05		

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	2.05	6.250	14.91	9.33	2.05
0.167	0.00	3.250	2.74	6.333	14.91	9.42	2.05
0.250	2.05	3.333	2.74	6.417	14.91	9.50	2.05
0.333	2.05	3.417	2.74	6.500	14.91	9.58	2.05
0.417	2.05	3.500	2.74	6.583	14.91	9.67	2.05
0.500	2.05	3.583	2.74	6.667	14.91	9.75	1.64
0.583	2.05	3.667	2.74	6.750	6.57	9.83	1.64
0.667	2.05	3.750	2.74	6.833	6.57	9.92	1.64
0.750	0.96	3.833	2.74	6.917	6.57	10.00	1.64
0.833	0.96	3.917	2.74	7.000	6.57	10.08	1.64
0.917	0.96	4.000	2.74	7.083	6.57	10.17	1.64
1.000	0.96	4.083	2.74	7.167	6.57	10.25	2.33
1.083	0.96	4.167	2.74	7.250	4.38	10.33	2.33
1.167	0.96	4.250	3.69	7.333	4.38	10.42	2.33
1.250	1.78	4.333	3.69	7.417	4.38	10.50	2.33
1.333	1.78	4.417	3.69	7.500	4.38	10.58	2.33
1.417	1.78	4.500	3.69	7.583	4.38	10.67	2.33
1.500	1.78	4.583	3.69	7.667	4.38	10.75	1.50
1.583	1.78	4.667	3.69	7.750	3.83	10.83	1.50
1.667	1.78	4.750	4.65	7.833	3.83	10.92	1.50
1.750	1.78	4.833	4.65	7.917	3.83	11.00	1.50
1.833	1.78	4.917	4.65	8.000	3.83	11.08	1.50
1.917	1.78	5.000	4.65	8.083	3.83	11.17	1.50
2.000	1.78	5.083	4.65	8.167	3.83	11.25	1.37
2.083	1.78	5.167	4.65	8.250	3.01	11.33	1.37
2.167	1.78	5.250	7.39	8.333	3.01	11.42	1.37
2.250	2.33	5.333	7.39	8.417	3.01	11.50	1.37
2.333	2.33	5.417	7.39	8.500	3.01	11.58	1.37
2.417	2.33	5.500	7.39	8.583	3.01	11.67	1.37
2.500	2.33	5.583	7.39	8.667	3.01	11.75	1.37
2.583	2.33	5.667	7.39	8.750	3.15	11.83	1.37
2.667	2.33	5.750	58.55	8.833	3.15	11.92	1.37
2.750	2.05	5.833	58.55	8.917	3.15	12.00	1.37
2.833	2.05	5.917	58.55	9.000	3.15	12.08	1.37
2.917	2.05	6.000	58.55	9.083	3.15	12.17	1.37
3.000	2.05	6.083	58.55	9.167	3.15		
3.083	2.05	6.167	58.55	9.250	2.05		

Unit Hyd Qpeak (cms)= 4.646

PEAK FLOW (cms)= 0.581 (i)
TIME TO PEAK (hrs)= 6.250
RUNOFF VOLUME (mm)= 11.262
TOTAL RAINFALL (mm)= 68.400
RUNOFF COEFFICIENT = 0.165

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

| CALIB |
| STANDHYD (0270) | Area (ha)= 3.95
| ID= 1 DT= 5.0 min | Total Imp(%)= 55.00 Dir. Conn.(%)= 55.00

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 2.17 1.78
Dep. Storage (mm)= 1.00 5.00

Max.Eff.Inten.(mm/hr)= 58.55 14.93
over (min) 5.00 25.00

Storage Coeff. (min)= 4.23 (ii) 22.71 (ii)
 Unit Hyd. Tpeak (min)= 5.00 25.00
 Unit Hyd. peak (cms)= 0.24 0.05

TOTALS
 PEAK FLOW (cms)= 0.35 0.04 0.385 (iii)
 TIME TO PEAK (hrs)= 6.17 6.42 6.17
 RUNOFF VOLUME (mm)= 67.40 15.76 44.16
 TOTAL RAINFALL (mm)= 68.40 68.40 68.40
 RUNOFF COEFFICIENT = 0.99 0.23 0.65

***** 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 (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0270):	3.95	0.385	6.17	44.16
+ ID2= 2 (0271):	26.76	0.581	6.25	11.26
=====				
ID = 3 (0054):	30.71	0.890	6.17	15.49

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

FINISH

V V I SSSS 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 SSSS UUUU A A LLLL
 000 TTTT TTTT H H Y Y M M 000 TM
 O O T T H H Y Y M M 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\2
 a14646a-13ae-46db-8e25-91440ba4cd0e\s
 Summary filename:
 C:\Users\caeh076182\AppData\Local\Civica\XH5\18e334db-11e6-4c2c-9e9b-68ade393f174\2
 a14646a-13ae-46db-8e25-91440ba4cd0e\s

DATE: 12-14-2022

TIME: 03:30:08

USER:

COMMENTS: _____

 ** SIMULATION : 12SCS010 **

READ STORM	Filename: C:\Users\caeh076182\AppData\Local\Temp\396a18b2-a47a-4edb-9128-76c3e2947350\aa2a049c
Ptotal= 78.00 mm	Comments: 12SCS010

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.17	0.00	3.33	3.12	6.50	17.00	9.67	2.34
0.33	2.34	3.50	3.12	6.67	17.00	9.83	1.87
0.50	2.34	3.67	3.12	6.83	7.49	10.00	1.87
0.67	2.34	3.83	3.12	7.00	7.49	10.17	1.87
0.83	1.09	4.00	3.12	7.17	7.49	10.33	2.65
1.00	1.09	4.17	3.12	7.33	4.99	10.50	2.65
1.17	1.09	4.33	4.21	7.50	4.99	10.67	2.65
1.33	2.03	4.50	4.21	7.67	4.99	10.83	1.72
1.50	2.03	4.67	4.21	7.83	4.37	11.00	1.72

1.67	2.03	4.83	5.30	8.00	4.37	11.17	1.72
1.83	2.03	5.00	5.30	8.17	4.37	11.33	1.56
2.00	2.03	5.17	5.30	8.33	3.43	11.50	1.56
2.17	2.03	5.33	8.42	8.50	3.43	11.67	1.56
2.33	2.65	5.50	8.42	8.67	3.43	11.83	1.56
2.50	2.65	5.67	8.42	8.83	3.59	12.00	1.56
2.67	2.65	5.83	66.77	9.00	3.59	12.17	1.56
2.83	2.34	6.00	66.77	9.17	3.59		
3.00	2.34	6.17	66.77	9.33	2.34		
3.17	2.34	6.33	17.00	9.50	2.34		

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		

 | 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	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

Unit Hyd Qpeak (cms)= 1.073

PEAK FLOW (cms)= 0.184 (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(%)= 44.00 Dir. Conn.(%)= 44.00

	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

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)= 2.56 (ii) 19.71 (ii)
Unit Hyd. Tpeak (min)= 5.00 20.00
Unit Hyd. peak (cms)= 0.29 0.06

TOTALS

PEAK FLOW (cms)= 0.07 0.02 0.085 (iii)
TIME TO PEAK (hrs)= 6.17 6.33 6.17
RUNOFF VOLUME (mm)= 77.00 18.98 44.49
TOTAL RAINFALL (mm)= 78.00 78.00 78.00
RUNOFF COEFFICIENT = 0.99 0.24 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.

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-----
| ADD HYD ( 0045) |
| 1 + 2 = 3 |
-----
          AREA   QPEAK   TPEAK   R.V.
          (ha)   (cms)   (hrs)   (mm)
ID1= 1 ( 0240):  0.88  0.085  6.17  44.49
+ ID2= 2 ( 0241): 11.24  0.184  6.58  12.19
-----
ID = 3 ( 0045): 12.12  0.215  6.58  14.54
-----
NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
-----
| CALIB |
| NASHYD ( 0281) | Area (ha)= 6.71 Curve Number (CN)= 68.0
| ID= 1 DT= 5.0 min | Ia (mm)= 12.70 # of Linear Res.(N)= 3.00
-----
          U.H. Tp(hrs)= 0.40
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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	2.34	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		

0.750	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)= 0.641

PEAK FLOW (cms)= 0.239 (i)
 TIME TO PEAK (hrs)= 6.500
 RUNOFF VOLUME (mm)= 23.067
 TOTAL RAINFALL (mm)= 78.000
 RUNOFF COEFFICIENT = 0.296

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

 | CALIB |
 | STANDHYD (0280) | Area (ha)= 0.90
 | ID= 1 DT= 5.0 min | Total Imp(%)= 99.00 Dir. Conn.(%)= 99.00

	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

Max.Eff.Inten.(mm/hr)=	66.77	65.92
over (min)	5.00	5.00
Storage Coeff. (min)=	2.58 (ii)	4.19 (ii)
Unit Hyd. Tpeak (min)=	5.00	5.00
Unit Hyd. peak (cms)=	0.29	0.24

TOTALS

PEAK FLOW (cms)=	0.17	0.00	0.167 (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

***** 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.

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

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| ADD HYD ( 0057) |
| 1 + 2 = 3 |
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	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0280):	0.90	0.167	6.17	76.91
+ ID2= 2 (0281):	6.71	0.239	6.50	23.07

ID = 3 (0057):	7.61	0.328	6.17	29.43

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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| CALIB |
| NASHYD ( 0131) |
| ID= 1 DT= 5.0 min |
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Area (ha)=	Curve Number (CN)=
10.63	55.0
Ia (mm)=	# of Linear Res.(N)=
22.60	3.00
U.H. Tp(hrs)=	
0.65	

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	2.34	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)= 0.625

PEAK FLOW (cms)= 0.127 (i)
 TIME TO PEAK (hrs)= 6.917
 RUNOFF VOLUME (mm)= 11.660
 TOTAL RAINFALL (mm)= 78.000
 RUNOFF COEFFICIENT = 0.149

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

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| CALIB |
| STANDHYD ( 0130) |
| ID= 1 DT= 5.0 min |
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Area (ha)=	Total Imp(%)=	Dir. Conn.(%)=
1.57	42.00	42.00

	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

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	2.34	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)= 3.04 (ii) 20.20 (ii)
Unit Hyd. Tpeak (min)= 5.00 25.00
Unit Hyd. peak (cms)= 0.27 0.05

TOTALS

PEAK FLOW (cms)= 0.12 0.03 0.144 (iii)
TIME TO PEAK (hrs)= 6.17 6.42 6.17
RUNOFF VOLUME (mm)= 77.00 18.98 43.34
TOTAL RAINFALL (mm)= 78.00 78.00 78.00
RUNOFF COEFFICIENT = 0.99 0.24 0.56

***** 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 ( 0012) |
| 1 + 2 = 3 |
-----
          AREA   QPEAK   TPEAK   R.V.
          (ha)   (cms)   (hrs)   (mm)
ID1= 1 ( 0130):  1.57  0.144  6.17  43.34
+ ID2= 2 ( 0131): 10.63  0.127  6.92  11.66
-----
ID = 3 ( 0012):  12.20  0.175  6.17  15.74
-----
NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
-----
| CALIB |
| NASHYD ( 0180) | Area (ha)= 2.46 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)= 1.36
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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	2.34	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		

0.750	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)= 0.069

PEAK FLOW (cms)= 0.019 (i)
 TIME TO PEAK (hrs)= 7.917
 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 (0181) | Area (ha)= 1.21
 | ID= 1 DT= 5.0 min | Total Imp(%)= 40.00 Dir. Conn.(%)= 40.00

	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

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)=	0.09	0.02	0.109 (iii)
TIME TO PEAK (hrs)=	6.17	6.33	6.17
RUNOFF VOLUME (mm)=	77.00	18.98	42.18
TOTAL RAINFALL (mm)=	78.00	78.00	78.00
RUNOFF COEFFICIENT =	0.99	0.24	0.54

***** 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.

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

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| ADD HYD ( 0027) |
| 1 + 2 = 3 |
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	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0180):	2.46	0.019	7.92	12.19
+ ID2= 2 (0181):	1.21	0.109	6.17	42.18
=====				
ID = 3 (0027):	3.67	0.111	6.17	22.08

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| CALIB |
| NASHYD ( 0171) |
| ID= 1 DT= 5.0 min |
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Area (ha)=	Curve Number (CN)=
32.39	60.0
Ia (mm)=	# of Linear Res.(N)=
18.20	3.00
U.H. Tp(hrs)=	0.91

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	2.34	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)= 1.359

PEAK FLOW (cms)=	0.441 (i)
TIME TO PEAK (hrs)=	7.250
RUNOFF VOLUME (mm)=	15.607
TOTAL RAINFALL (mm)=	78.000
RUNOFF COEFFICIENT =	0.200

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW 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	0.441	7.25	15.61
+ ID2= 2 (0027):	3.67	0.111	6.17	22.08
=====				
ID = 3 (0062):	36.06	0.475	7.17	16.27

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)=	Dir. Conn.(%)=
3.33	42.00
Total Imp(%)=	42.00

	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	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)= 0.26 0.06 0.303 (iii)
TIME TO PEAK (hrs)= 6.17 6.42 6.17

RUNOFF VOLUME (mm)= 77.00 18.98 43.34
TOTAL RAINFALL (mm)= 78.00 78.00 78.00
RUNOFF COEFFICIENT = 0.99 0.24 0.56

***** 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 0.303 6.17 43.34
+ ID2= 2 (0062): 36.06 0.475 7.17 16.27
=====

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
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		

---- 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)= 2.549

PEAK FLOW (cms)= 1.567 (i)
 TIME TO PEAK (hrs)= 8.833
 RUNOFF VOLUME (mm)= 21.998
 TOTAL RAINFALL (mm)= 78.000
 RUNOFF COEFFICIENT = 0.282

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

CALIB			
STANDHYD (0190)	Area (ha)=	1.71	
ID= 1 DT= 5.0 min	Total Imp(%)=	72.00	Dir. Conn.(%)= 72.00

	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

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

Max.Eff.Inten.(mm/hr)=	66.77	21.70
over (min)	5.00	20.00
Storage Coeff. (min)=	3.12 (ii)	19.04 (ii)
Unit Hyd. Tpeak (min)=	5.00	20.00
Unit Hyd. peak (cms)=	0.27	0.06

TOTALS

PEAK FLOW (cms)=	0.23	0.02	0.245 (iii)
TIME TO PEAK (hrs)=	6.17	6.33	6.17

RUNOFF VOLUME (mm)= 77.00 22.64 61.77
 TOTAL RAINFALL (mm)= 78.00 78.00 78.00
 RUNOFF COEFFICIENT = 0.99 0.29 0.79

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		

***** 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.

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

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0190):	1.71	0.245	6.17	61.77
+ ID2= 2 (0191):	146.82	1.567	8.83	22.00
=====				
ID = 3 (0030):	148.53	1.581	8.83	22.46

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

 | CALIB |
 | NASHYD (0192) |
 | ID= 1 DT= 5.0 min |

Area (ha)= 277.13	Curve Number (CN)= 66.0
Ia (mm)= 9.70	# of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 2.41	

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

Unit Hyd Qpeak (cms)= 4.392

PEAK FLOW (cms)= 2.975 (i)
 TIME TO PEAK (hrs)= 9.083
 RUNOFF VOLUME (mm)= 23.424
 TOTAL RAINFALL (mm)= 78.000
 RUNOFF COEFFICIENT = 0.300

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

 | ADD HYD (0061) |
 | 1 + 2 = 3 |

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0192):	277.13	2.975	9.08	23.42
+ ID2= 2 (0030):	148.53	1.581	8.83	22.46
=====				
ID = 3 (0061):	425.66	4.552	9.00	23.09

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

 | 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
 ----- U.H. Tp(hrs)= 3.71

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)= 5.114

PEAK FLOW (cms)= 4.980 (i)
 TIME TO PEAK (hrs)= 10.667
 RUNOFF VOLUME (mm)= 29.950
 TOTAL RAINFALL (mm)= 78.000
 RUNOFF COEFFICIENT = 0.384

(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	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		

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		

1.083	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)= 2.046

PEAK FLOW (cms)= 1.036 (i)
 TIME TO PEAK (hrs)= 6.667
 RUNOFF VOLUME (mm)= 26.479
 TOTAL RAINFALL (mm)= 78.000
 RUNOFF COEFFICIENT = 0.339

(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	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

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)= 0.37 0.19 0.533 (iii)
 TIME TO PEAK (hrs)= 6.17 6.33 6.17
 RUNOFF VOLUME (mm)= 77.00 31.02 48.95
 TOTAL RAINFALL (mm)= 78.00 78.00 78.00
 RUNOFF COEFFICIENT = 0.99 0.40 0.63

***** 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 (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0200):	5.18	0.533	6.17	48.95
+ ID2= 2 (0201):	30.53	1.036	6.67	26.48
=====				
ID = 3 (0033):	35.71	1.257	6.67	29.74

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		

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB	Area (ha)	Curve Number (CN)
NASHYD (0196)	65.48	72.0
ID= 1 DT= 5.0 min	Ia (mm)= 10.20	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)= 0.68	

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

Unit Hyd Qpeak (cms)= 3.678

PEAK FLOW (cms)= 2.089 (i)
 TIME TO PEAK (hrs)= 6.833
 RUNOFF VOLUME (mm)= 27.595
 TOTAL RAINFALL (mm)= 78.000
 RUNOFF COEFFICIENT = 0.354

(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

CALIB	Area (ha)	Dir. Conn.(%)
STANDHYD (0210)	0.57	39.00
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
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 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)= 0.04 0.02 0.058 (iii)
TIME TO PEAK (hrs)= 6.08 6.33 6.17
RUNOFF VOLUME (mm)= 77.00 28.48 47.39
TOTAL RAINFALL (mm)= 78.00 78.00 78.00
RUNOFF COEFFICIENT = 0.99 0.37 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.

| 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
----- U.H. Tp(hrs)= 0.15

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)= 0.517

PEAK FLOW (cms)= 0.147 (i)

TIME TO PEAK (hrs)= 6.167
 RUNOFF VOLUME (mm)= 27.307
 TOTAL RAINFALL (mm)= 78.000
 RUNOFF COEFFICIENT = 0.350

+ ID2= 2 (0036): 2.60 0.205 6.17 31.71
 =====
 ID = 3 (0059): 600.49 5.425 10.67 29.69

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

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

 | ADD HYD (0036) |
1 + 2 = 3

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0210):	0.57	0.058	6.17	47.39
+ ID2= 2 (0211):	2.03	0.147	6.17	27.31
=====				
ID = 3 (0036):	2.60	0.205	6.17	31.71

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 (0195):	496.70	4.980	10.67	29.95
+ ID2= 2 (0196):	65.48	2.089	6.83	27.60
=====				
ID = 3 (0059):	562.18	5.261	10.58	29.68

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

 | ADD HYD (0059) |
3 + 2 = 1

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 3 (0059):	562.18	5.261	10.58	29.68
+ ID2= 2 (0033):	35.71	1.257	6.67	29.74
=====				
ID = 1 (0059):	597.89	5.413	10.67	29.68

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	5.413	10.67	29.68

 | 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)= 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	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)= 2.864

PEAK FLOW (cms)= 2.447 (i)
 TIME TO PEAK (hrs)= 8.667
 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) |
| 1 + 2 = 3 |
-----
      AREA   QPEAK   TPEAK   R.V.
      (ha)   (cms)   (hrs)   (mm)
ID1= 1 ( 0194): 160.45 2.447   8.67   30.02
+ ID2= 2 ( 0059): 600.49 5.425  10.67  29.69
-----
      ID = 3 ( 0016): 760.94 7.554   9.58   29.76
  
```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| CALIB |
| NASHYD ( 0193) | Area (ha)= 48.62 Curve Number (CN)= 66.0
| ID= 1 DT= 5.0 min | Ia (mm)= 15.10 # of Linear Res.(N)= 3.00
-----
      U.H. Tp(hrs)= 1.78
  
```

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		

Unit Hyd Qpeak (cms)= 1.043

PEAK FLOW (cms)= 0.557 (i)
 TIME TO PEAK (hrs)= 8.333
 RUNOFF VOLUME (mm)= 20.420
 TOTAL RAINFALL (mm)= 78.000
 RUNOFF COEFFICIENT = 0.262

(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): 760.94 7.554   9.58   29.76
+ ID2= 2 ( 0193): 48.62 0.557   8.33   20.42
-----
      ID = 3 ( 0060): 809.56 8.028   9.42   29.20
  
```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

3.083 2.34 | 6.167 66.77 | 9.250 2.34 |

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-----
| CALIB |
| NASHYD ( 0251) | Area (ha)= 16.61 Curve Number (CN)= 51.0
| ID= 1 DT= 5.0 min | Ia (mm)= 24.90 # of Linear Res.(N)= 3.00
-----
U.H. Tp(hrs)= 0.50
  
```

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

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Unit Hyd Qpeak (cms)= 1.269
PEAK FLOW (cms)= 0.181 (i)
TIME TO PEAK (hrs)= 6.750
RUNOFF VOLUME (mm)= 9.489
TOTAL RAINFALL (mm)= 78.000
RUNOFF COEFFICIENT = 0.122
  
```

(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
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		

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| CALIB |
| STANDHYD ( 0250) | Area (ha)= 0.93
| ID= 1 DT= 5.0 min | Total Imp(%)= 41.00 Dir. Conn.(%)= 41.00
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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	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		

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| CALIB |
| NASHYD ( 0121) | Area (ha)= 2.40 Curve Number (CN)= 54.0
| ID= 1 DT= 5.0 min | 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	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		

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)= 0.07 0.03 0.092 (iii)
TIME TO PEAK (hrs)= 6.17 6.33 6.17
RUNOFF VOLUME (mm)= 77.00 24.69 46.12
TOTAL RAINFALL (mm)= 78.00 78.00 78.00
RUNOFF COEFFICIENT = 0.99 0.32 0.59

***** 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.

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-----
| ADD HYD ( 0048) |
| 1 + 2 = 3 |
-----
AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)
ID1= 1 ( 0250): 0.93 0.092 6.17 46.12
+ ID2= 2 ( 0251): 16.61 0.181 6.75 9.49
=====
ID = 3 ( 0048): 17.54 0.213 6.67 11.43

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3.083 2.34 | 6.167 66.77 | 9.250 2.34 |

Unit Hyd Qpeak (cms)= 0.183

PEAK FLOW (cms)= 0.031 (i)
 TIME TO PEAK (hrs)= 6.750
 RUNOFF VOLUME (mm)= 10.965
 TOTAL RAINFALL (mm)= 78.000
 RUNOFF COEFFICIENT = 0.141

(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		

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| CALIB |
| STANDHYD ( 0120) | Area (ha)= 0.82
| ID= 1 DT= 5.0 min | Total Imp(%)= 40.00 Dir. Conn.(%)= 40.00
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	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

Max.Eff.Inten.(mm/hr)= 66.77 17.99
 over (min) 5.00 20.00
 Storage Coeff. (min)= 2.50 (ii) 19.65 (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 0.074 (iii)
 TIME TO PEAK (hrs)= 6.17 6.33 6.17
 RUNOFF VOLUME (mm)= 77.00 18.98 42.17
 TOTAL RAINFALL (mm)= 78.00 78.00 78.00
 RUNOFF COEFFICIENT = 0.99 0.24 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	2.34	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

***** 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 (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0120):	0.82	0.074	6.17	42.17
+ ID2= 2 (0121):	2.40	0.031	6.75	10.96
=====				
ID = 3 (0009):	3.22	0.085	6.17	18.91

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

3.083 2.34 | 6.167 66.77 | 9.250 2.34 |

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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
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| U.H. Tp(hrs)= 0.39

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

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Unit Hyd Qpeak (cms)= 0.516
PEAK FLOW (cms)= 0.083 (i)
TIME TO PEAK (hrs)= 6.583
RUNOFF VOLUME (mm)= 11.658
TOTAL RAINFALL (mm)= 78.000
RUNOFF COEFFICIENT = 0.149

```

(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
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		

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| CALIB |
| STANDHYD ( 0110) | Area (ha)= 1.01
| ID= 1 DT= 5.0 min | Total Imp(%)= 39.00 Dir. Conn.(%)= 39.00
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IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 0.39 0.62
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	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		

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| CALIB |
| NASHYD ( 0141) | Area (ha)= 7.22 Curve Number (CN)= 64.0
| ID= 1 DT= 5.0 min | Ia (mm)= 15.20 # of Linear Res.(N)= 3.00
-----
U.H. Tp(hrs)= 0.44

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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	2.34	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		

Max.Eff.Inten.(mm/hr)= 66.77 17.99
over (min) 5.00 20.00
Storage Coeff. (min)= 2.66 (ii) 19.82 (ii)
Unit Hyd. Tpeak (min)= 5.00 20.00
Unit Hyd. peak (cms)= 0.29 0.06

TOTALS

PEAK FLOW (cms)= 0.07 0.02 0.090 (iii)
TIME TO PEAK (hrs)= 6.17 6.33 6.17
RUNOFF VOLUME (mm)= 77.00 18.98 41.59
TOTAL RAINFALL (mm)= 78.00 78.00 78.00
RUNOFF COEFFICIENT = 0.99 0.24 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.

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-----
| ADD HYD ( 0006) |
| 1 + 2 = 3 |
-----
AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)
ID1= 1 ( 0110): 1.01 0.090 6.17 41.59
+ ID2= 2 ( 0111): 5.27 0.083 6.58 11.66
=====
ID = 3 ( 0006): 6.28 0.133 6.17 16.47

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3.083 2.34 | 6.167 66.77 | 9.250 2.34 |

Unit Hyd Qpeak (cms)= 0.627

PEAK FLOW (cms)= 0.196 (i)
 TIME TO PEAK (hrs)= 6.583
 RUNOFF VOLUME (mm)= 19.173
 TOTAL RAINFALL (mm)= 78.000
 RUNOFF COEFFICIENT = 0.246

(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		

 | CALIB |
 | STANDHYD (0140) | Area (ha)= 0.76
 | ID= 1 DT= 5.0 min | Total Imp(%)= 38.00 Dir. Conn.(%)= 38.00

IMPERVIOUS PERVIOUS (i)
 Surface Area (ha)= 0.29 0.47
 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

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

TOTALS

PEAK FLOW (cms)= 0.05 0.02 0.066 (iii)
 TIME TO PEAK (hrs)= 6.17 6.33 6.17
 RUNOFF VOLUME (mm)= 77.00 18.98 41.01
 TOTAL RAINFALL (mm)= 78.00 78.00 78.00
 RUNOFF COEFFICIENT = 0.99 0.24 0.53

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

***** 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	0.066	6.17	41.01
+ ID2= 2 (0141):	7.22	0.196	6.58	19.17
=====				
ID = 3 (0015):	7.98	0.223	6.50	21.25

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

3.083 2.34 | 6.167 66.77 | 9.250 2.34 |

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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
-----
U.H. Tp(hrs)= 0.17
  
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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

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Unit Hyd Qpeak (cms)= 3.161
PEAK FLOW (cms)= 0.706 (i)
TIME TO PEAK (hrs)= 6.167
RUNOFF VOLUME (mm)= 20.837
TOTAL RAINFALL (mm)= 78.000
RUNOFF COEFFICIENT = 0.267
  
```

(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
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		

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| CALIB |
| STANDHYD ( 0150) | Area (ha)= 1.35
| ID= 1 DT= 5.0 min | Total Imp(%)= 39.00 Dir. Conn.(%)= 39.00
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IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 0.53 0.82
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
  
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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	2.34	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		

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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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)= 1.23

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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	2.34	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		

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)= 0.10 0.03 0.117 (iii)
TIME TO PEAK (hrs)= 6.17 6.42 6.17
RUNOFF VOLUME (mm)= 77.00 18.98 41.60
TOTAL RAINFALL (mm)= 78.00 78.00 78.00
RUNOFF COEFFICIENT = 0.99 0.24 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.

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| ADD HYD ( 0018) |
| 1 + 2 = 3 |
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	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0150):	1.35	0.117	6.17	41.60
+ ID2= 2 (0151):	14.07	0.706	6.17	20.84
=====				
ID = 3 (0018):	15.42	0.823	6.17	22.65

3.083 2.34 | 6.167 66.77 | 9.250 2.34 |

Unit Hyd Qpeak (cms)= 1.113

PEAK FLOW (cms)= 0.379 (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.

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		

 | CALIB |
 | STANDHYD (0260) | Area (ha)= 3.40
 | ID= 1 DT= 5.0 min | Total Imp(%)= 40.00 Dir. Conn.(%)= 40.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	1.36	2.04
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)=	0.25	0.14	0.373 (iii)
TIME TO PEAK (hrs)=	6.17	6.33	6.17
RUNOFF VOLUME (mm)=	77.00	34.78	51.67
TOTAL RAINFALL (mm)=	78.00	78.00	78.00
RUNOFF COEFFICIENT =	0.99	0.45	0.66

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

***** 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	0.373	6.17	51.67
+ ID2= 2 (0261):	35.85	0.379	7.67	15.00

ID = 3 (0051):	39.25	0.424	7.58	18.18

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

3.083 2.34 | 6.167 66.77 | 9.250 2.34 |

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-----
| CALIB |
| NASHYD ( 0101) | Area (ha)= 7.90 Curve Number (CN)= 62.0
| ID= 1 DT= 5.0 min | Ia (mm)= 16.60 # of Linear Res.(N)= 3.00
-----
U.H. Tp(hrs)= 0.34
  
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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

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Unit Hyd Qpeak (cms)= 0.887
PEAK FLOW (cms)= 0.222 (i)
TIME TO PEAK (hrs)= 6.417
RUNOFF VOLUME (mm)= 17.363
TOTAL RAINFALL (mm)= 78.000
RUNOFF COEFFICIENT = 0.223
  
```

(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
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		

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| CALIB |
| STANDHYD ( 0100) | Area (ha)= 0.91
| ID= 1 DT= 5.0 min | Total Imp(%)= 62.00 Dir. Conn.(%)= 62.00
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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	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 27.56
over (min) 5.00 20.00
Storage Coeff. (min)= 2.58 (ii) 17.29 (ii)
Unit Hyd. Tpeak (min)= 5.00 20.00
Unit Hyd. peak (cms)= 0.29 0.06

TOTALS
PEAK FLOW (cms)= 0.10 0.02 0.120 (iii)
TIME TO PEAK (hrs)= 6.17 6.33 6.17
RUNOFF VOLUME (mm)= 77.00 26.90 57.95
TOTAL RAINFALL (mm)= 78.00 78.00 78.00
RUNOFF COEFFICIENT = 0.99 0.34 0.74

***** 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	0.120	6.17	57.95
+ ID2= 2 (0101):	7.90	0.222	6.42	17.36
=====				
ID = 3 (0003):	8.81	0.277	6.17	21.56

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| CALIB |
| NASHYD (0231) | Area (ha)= 33.58 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)= 0.29

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)= 4.423

PEAK FLOW (cms)= 0.867 (i)
 TIME TO PEAK (hrs)= 6.333
 RUNOFF VOLUME (mm)= 14.994
 TOTAL RAINFALL (mm)= 78.000
 RUNOFF COEFFICIENT = 0.192

(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		

 | CALIB |
 | STANDHYD (0230) | Area (ha)= 3.07
 | ID= 1 DT= 5.0 min | Total Imp(%)= 58.00 Dir. Conn.(%)= 58.00

IMPERVIOUS PERVIOUS (i)
 Surface Area (ha)= 1.78 1.29
 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)= 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)= 0.33 0.05 0.375 (iii)
 TIME TO PEAK (hrs)= 6.17 6.33 6.17
 RUNOFF VOLUME (mm)= 77.00 23.30 54.44
 TOTAL RAINFALL (mm)= 78.00 78.00 78.00
 RUNOFF COEFFICIENT = 0.99 0.30 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
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

***** 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.

 | ADD HYD (0042) |
 | 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
 |-----| (ha) (cms) (hrs) (mm)
 ID1= 1 (0230): 3.07 0.375 6.17 54.44
 + ID2= 2 (0231): 33.58 0.867 6.33 14.99
 =====
 ID = 3 (0042): 36.65 1.040 6.17 18.30

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

3.083 2.34 | 6.167 66.77 | 9.250 2.34 |

```

-----
| CALIB |
| NASHYD ( 0221) | Area (ha)= 14.91 Curve Number (CN)= 58.0
| ID= 1 DT= 5.0 min | Ia (mm)= 19.10 # of Linear Res.(N)= 3.00
-----
U.H. Tp(hrs)= 0.40
  
```

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

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-----
Unit Hyd Qpeak (cms)= 1.424
PEAK FLOW (cms)= 0.299 (i)
TIME TO PEAK (hrs)= 6.500
RUNOFF VOLUME (mm)= 14.285
TOTAL RAINFALL (mm)= 78.000
RUNOFF COEFFICIENT = 0.183
  
```

(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
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		

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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
  
```

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 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

***** 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	0.163	6.17	76.91
+ ID2= 2 (0221):	14.91	0.299	6.50	14.28
=====				
ID = 3 (0039):	15.79	0.341	6.50	17.77

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)= 0.94

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)= 5.334

PEAK FLOW (cms)= 3.852 (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.

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		

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| CALIB |
| STANDHYD ( 0160) | Area (ha)= 3.05
| ID= 1 DT= 5.0 min | Total Imp(%)= 39.00 Dir. Conn.(%)= 39.00
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	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	1.19	1.86
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)=	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

TOTALS

PEAK FLOW (cms)=	0.22	0.06	0.263 (iii)
TIME TO PEAK (hrs)=	6.17	6.42	6.17
RUNOFF VOLUME (mm)=	77.00	18.98	41.60
TOTAL RAINFALL (mm)=	78.00	78.00	78.00
RUNOFF COEFFICIENT =	0.99	0.24	0.53

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

***** 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 (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0160):	3.05	0.263	6.17	41.60
+ ID2= 2 (0161):	131.28	3.852	7.17	31.26
=====				
ID = 3 (0021):	134.33	3.905	7.08	31.50

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

3.083 2.34 | 6.167 66.77 | 9.250 2.34 |

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| CALIB |
| NASHYD ( 0271) | Area (ha)= 26.76 Curve Number (CN)= 60.0
| ID= 1 DT= 5.0 min | Ia (mm)= 18.70 # of Linear Res.(N)= 3.00
-----
U.H. Tp(hrs)= 0.22
  
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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

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Unit Hyd Qpeak (cms)= 4.646
PEAK FLOW (cms)= 0.834 (i)
TIME TO PEAK (hrs)= 6.250
RUNOFF VOLUME (mm)= 15.360
TOTAL RAINFALL (mm)= 78.000
RUNOFF COEFFICIENT = 0.197
  
```

(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
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		

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| CALIB |
| STANDHYD ( 0270) | Area (ha)= 3.95
| ID= 1 DT= 5.0 min | Total Imp(%)= 55.00 Dir. Conn.(%)= 55.00
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IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 2.17 1.78
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)= 0.40 0.06 0.446 (iii)
TIME TO PEAK (hrs)= 6.17 6.42 6.17
RUNOFF VOLUME (mm)= 77.00 20.14 51.41
TOTAL RAINFALL (mm)= 78.00 78.00 78.00
RUNOFF COEFFICIENT = 0.99 0.26 0.66

***** 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 ( 0054) |
| 1 + 2 = 3 |
-----

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	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0270):	3.95	0.446	6.17	51.41
+ ID2= 2 (0271):	26.76	0.834	6.25	15.36
=====				
ID = 3 (0054):	30.71	1.190	6.17	20.00

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
V V I SSSSS UUUUU 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

Output filename:
C:\Users\caeh076182\AppData\Local\Civica\XH5\18e334db-11e6-4c2c-9e9b-68ade393f174\4
2285dde-e03d-4c2d-b22f-1e744a2cc222\s
Summary filename:
C:\Users\caeh076182\AppData\Local\Civica\XH5\18e334db-11e6-4c2c-9e9b-68ade393f174\4
2285dde-e03d-4c2d-b22f-1e744a2cc222\s

DATE: 12-14-2022

TIME: 03:30:10

USER:

COMMENTS: _____

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*****
** SIMULATION : 12SCS025 **
*****

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READ STORM | Filename: C:\Users\caeh076182\AppData
 | | ata\Local\Temp\
 | | 396a18b2-a47a-4edb-9128-76c3e2947350\ae7facb4
 Ptotal= 90.00 mm | Comments: 12SCS025

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		

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		

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	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

Unit Hyd Qpeak (cms)= 1.073
 PEAK FLOW (cms)= 0.272 (i)
 TIME TO PEAK (hrs)= 6.500
 RUNOFF VOLUME (mm)= 17.190
 TOTAL RAINFALL (mm)= 90.000
 RUNOFF COEFFICIENT = 0.191

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

CALIB |
 STANDHYD (0240) | Area (ha)= 0.88
 ID= 1 DT= 5.0 min | Total Imp(%)= 44.00 Dir. Conn.(%)= 44.00

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

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)= 2.42 (ii) 17.83 (ii)
 Unit Hyd. Tpeak (min)= 5.00 20.00

Unit Hyd. peak (cms)= 0.30 0.06
 TOTALS
 PEAK FLOW (cms)= 0.08 0.02 0.102 (iii)
 TIME TO PEAK (hrs)= 6.17 6.33 6.17
 RUNOFF VOLUME (mm)= 89.00 24.67 52.96
 TOTAL RAINFALL (mm)= 90.00 90.00 90.00
 RUNOFF COEFFICIENT = 0.99 0.27 0.59

***** 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 (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0240):	0.88	0.102	6.17	52.96
+ ID2= 2 (0241):	11.24	0.272	6.50	17.19
ID = 3 (0045):	12.12	0.312	6.50	19.79

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

 | CALIB |
 | NASHYD (0281) | Area (ha)= 6.71 Curve Number (CN)= 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	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		

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		

Unit Hyd Qpeak (cms)= 0.641

PEAK FLOW (cms)= 0.322 (i)
 TIME TO PEAK (hrs)= 6.417
 RUNOFF VOLUME (mm)= 30.354
 TOTAL RAINFALL (mm)= 90.000
 RUNOFF COEFFICIENT = 0.337

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

CALIB	
STANDHYD (0280)	Area (ha)= 0.90
ID= 1 DT= 5.0 min	Total Imp(%)= 99.00 Dir. Conn.(%)= 99.00

	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

Max.Eff.Inten.(mm/hr)=	77.04	76.30
over (min)	5.00	5.00
Storage Coeff. (min)=	2.44 (ii)	3.96 (ii)
Unit Hyd. Tpeak (min)=	5.00	5.00

Unit Hyd. peak (cms)= 0.30 0.24
 PEAK FLOW (cms)= 0.19 0.00
 TIME TO PEAK (hrs)= 6.17 6.17
 RUNOFF VOLUME (mm)= 89.00 80.11
 TOTAL RAINFALL (mm)= 90.00 90.00
 RUNOFF COEFFICIENT = 0.99 0.89

TOTALS
 0.193 (iii)
 6.17
 88.91
 90.00
 0.99

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* = 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	0.193	6.17	88.91
+ ID2= 2 (0281):	6.71	0.322	6.42	30.35
ID = 3 (0057):	7.61	0.417	6.17	37.28

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	Ia (mm)= 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	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

Unit Hyd Qpeak (cms)= 0.625
 PEAK FLOW (cms)= 0.187 (i)
 TIME TO PEAK (hrs)= 6.917
 RUNOFF VOLUME (mm)= 16.506
 TOTAL RAINFALL (mm)= 90.000
 RUNOFF COEFFICIENT = 0.183

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

CALIB	Area (ha)	Dir. Conn.(%)
STANDHYD (0130)	1.57	42.00
ID= 1 DT= 5.0 min	Total Imp(%)= 42.00	Dir. Conn.(%)= 42.00

	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

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)= 2.88 (ii) 18.29 (ii)
 Unit Hyd. Tpeak (min)= 5.00 20.00

Unit Hyd. peak (cms)= 0.28 0.06
 PEAK FLOW (cms)= 0.14 0.04 0.175 (iii)
 TIME TO PEAK (hrs)= 6.17 6.33 6.17
 RUNOFF VOLUME (mm)= 89.00 24.67 51.68
 TOTAL RAINFALL (mm)= 90.00 90.00 90.00
 RUNOFF COEFFICIENT = 0.99 0.27 0.57

TOTALS

***** 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)
ID1= 1 (0130):	1.57	0.175	6.17	51.68
+ ID2= 2 (0131):	10.63	0.187	6.92	16.51
ID = 3 (0012):	12.20	0.238	6.67	21.03

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

	Area	(ha)=	Curve Number	(CN)=
CALIB	2.46		56.0	
NASHYD (0180)	22.20			
ID= 1 DT= 5.0 min				
U.H. Tp(hrs)=	1.36			

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		

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		

Unit Hyd Qpeak (cms)= 0.069

PEAK FLOW (cms)= 0.028 (i)
 TIME TO PEAK (hrs)= 7.833
 RUNOFF VOLUME (mm)= 17.192
 TOTAL RAINFALL (mm)= 90.000
 RUNOFF COEFFICIENT = 0.191

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

CALIB			
STANDHYD (0181)	Area (ha)=	1.21	
ID= 1 DT= 5.0 min	Total Imp(%)=	40.00	Dir. Conn.(%)= 40.00

	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

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
 PEAK FLOW (cms)= 0.10 0.03
 TIME TO PEAK (hrs)= 6.17 6.33
 RUNOFF VOLUME (mm)= 89.00 24.67
 TOTAL RAINFALL (mm)= 90.00 90.00
 RUNOFF COEFFICIENT = 0.99 0.27

TOTALS
 0.131 (iii)
 6.17
 50.40
 90.00
 0.56

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 (0027)	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
1 + 2 = 3				
ID1= 1 (0180):	2.46	0.028	7.83	17.19
+ ID2= 2 (0181):	1.21	0.131	6.17	50.40
ID = 3 (0027):	3.67	0.133	6.17	28.14

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	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

Unit Hyd Qpeak (cms)= 1.359

PEAK FLOW (cms)= 0.621 (i)
 TIME TO PEAK (hrs)= 7.167
 RUNOFF VOLUME (mm)= 21.379
 TOTAL RAINFALL (mm)= 90.000
 RUNOFF COEFFICIENT = 0.238

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

ADD HYD (0062)	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
1 + 2 = 3				
ID1= 1 (0171):	32.39	0.621	7.17	21.38
+ ID2= 2 (0027):	3.67	0.133	6.17	28.14
ID = 3 (0062):	36.06	0.667	7.17	22.07

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

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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	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)= 3.60 (ii) 19.01 (ii)
Unit Hyd. Tpeak (min)= 5.00 20.00
Unit Hyd. peak (cms)= 0.25 0.06

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TOTALS

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PEAK FLOW (cms)= 0.30 0.09 0.370 (iii)
TIME TO PEAK (hrs)= 6.17 6.33 6.17
RUNOFF VOLUME (mm)= 89.00 24.67 51.69
TOTAL RAINFALL (mm)= 90.00 90.00 90.00
RUNOFF COEFFICIENT = 0.99 0.27 0.57

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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 ( 0024) |
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
| | (ha) (cms) (hrs) (mm)
-----
ID1= 1 ( 0170): 3.33 0.370 6.17 51.69
+ ID2= 2 ( 0062): 36.06 0.667 7.17 22.07
=====
ID = 3 ( 0024): 39.39 0.732 7.17 24.57

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NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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| 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
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U.H. Tp(hrs)= 2.20

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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	2.70	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)= 2.549

PEAK FLOW (cms)= 2.095 (i)

TIME TO PEAK (hrs)= 8.833

RUNOFF VOLUME (mm)= 29.090

TOTAL RAINFALL (mm)= 90.000

RUNOFF COEFFICIENT = 0.323

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

CALIB		Area (ha)= 1.71	
STANDHYD (0190)		Total Imp(%)= 72.00 Dir. Conn.(%)= 72.00	
ID= 1 DT= 5.0 min			

	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

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		

Max.Eff.Inten.(mm/hr)= 77.04 29.72
over (min) 5.00 20.00
Storage Coeff. (min)= 2.95 (ii) 16.98 (ii)
Unit Hyd. Tpeak (min)= 5.00 20.00
Unit Hyd. peak (cms)= 0.28 0.06

TOTALS

PEAK FLOW (cms)= 0.26 0.03 0.286 (iii)
TIME TO PEAK (hrs)= 6.17 6.33 6.17
RUNOFF VOLUME (mm)= 89.00 29.20 72.25
TOTAL RAINFALL (mm)= 90.00 90.00 90.00
RUNOFF COEFFICIENT = 0.99 0.32 0.80

***** 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.

	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0190):	1.71	0.286	6.17	72.25
+ ID2= 2 (0191):	146.82	2.095	8.83	29.09
=====				
ID = 3 (0030):	148.53	2.112	8.83	29.59

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB	Area	(ha)	Curve Number	(CN)=
NASHYD (0192)	277.13		66.0	
ID= 1 DT= 5.0 min	Ia	(mm)= 9.70	# of Linear Res.(N)=	3.00
U.H. Tp(hrs)=	2.41			

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

Unit Hyd Qpeak (cms)= 4.392

PEAK FLOW (cms)= 3.907 (i)
TIME TO PEAK (hrs)= 9.000
RUNOFF VOLUME (mm)= 30.538
TOTAL RAINFALL (mm)= 90.000
RUNOFF COEFFICIENT = 0.339

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

 | ADD HYD (0061) |
1 + 2 = 3

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0192):	277.13	3.907	9.00	30.54
+ ID2= 2 (0030):	148.53	2.112	8.83	29.59
=====				
ID = 3 (0061):	425.66	6.012	8.92	30.21

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

 | CALIB |
 | NASHYD (0195) |
ID= 1 DT= 5.0 min

Area (ha)=	496.70	Curve Number (CN)=	74.0
Ia (mm)=	9.20	# of Linear Res.(N)=	3.00
U.H. Tp(hrs)=	3.71		

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)= 5.114

PEAK FLOW (cms)= 6.409 (i)
 TIME TO PEAK (hrs)= 10.583
 RUNOFF VOLUME (mm)= 38.394
 TOTAL RAINFALL (mm)= 90.000
 RUNOFF COEFFICIENT = 0.427

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW 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)=	0.57		

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)= 2.046

PEAK FLOW (cms)= 1.365 (i)
 TIME TO PEAK (hrs)= 6.667
 RUNOFF VOLUME (mm)= 34.354
 TOTAL RAINFALL (mm)= 90.000
 RUNOFF COEFFICIENT = 0.382

(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.

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

TOTALS

PEAK FLOW (cms)=	0.43	0.24	0.645 (iii)
TIME TO PEAK (hrs)=	6.17	6.33	6.17

RUNOFF VOLUME (mm)= 89.00 39.31 58.69
 TOTAL RAINFALL (mm)= 90.00 90.00 90.00
 RUNOFF COEFFICIENT = 0.99 0.44 0.65

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* = 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
 ID1= 1 (0200): AREA (ha) QPEAK (cms) TPEAK (hrs) R.V. (mm)
 5.18 0.645 6.17 58.69
 + ID2= 2 (0201): 30.53 1.365 6.67 34.35
 =====
 ID = 3 (0033): 35.71 1.631 6.67 37.88

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

 | 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

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

Unit Hyd Qpeak (cms)= 3.678

PEAK FLOW (cms)= 2.734 (i)
 TIME TO PEAK (hrs)= 6.833
 RUNOFF VOLUME (mm)= 35.659
 TOTAL RAINFALL (mm)= 90.000
 RUNOFF COEFFICIENT = 0.396

(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

 | 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
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 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)= 0.05 0.03 0.072 (iii)
TIME TO PEAK (hrs)= 6.08 6.25 6.17

RUNOFF VOLUME (mm)= 89.00 36.29 56.83
TOTAL RAINFALL (mm)= 90.00 90.00 90.00
RUNOFF COEFFICIENT = 0.99 0.40 0.63

***** 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.

| 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

U.H. Tp(hrs)= 0.15

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)= 0.517

PEAK FLOW (cms)= 0.192 (i)
 TIME TO PEAK (hrs)= 6.167
 RUNOFF VOLUME (mm)= 35.316
 TOTAL RAINFALL (mm)= 90.000
 RUNOFF COEFFICIENT = 0.392

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

ADD HYD (0036)				
1 + 2 = 3				
	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0210):	0.57	0.072	6.17	56.83
+ ID2= 2 (0211):	2.03	0.192	6.17	35.32
=====				
ID = 3 (0036):	2.60	0.264	6.17	40.03

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 (0195):	496.70	6.409	10.58	38.39
+ ID2= 2 (0196):	65.48	2.734	6.83	35.66
=====				
ID = 3 (0059):	562.18	6.761	10.50	38.08

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):	562.18	6.761	10.50	38.08
+ ID2= 2 (0033):	35.71	1.631	6.67	37.88
=====				
ID = 1 (0059):	597.89	6.946	10.50	38.06

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):	597.89	6.946	10.50	38.06
+ ID2= 2 (0036):	2.60	0.264	6.17	40.03
=====				
ID = 3 (0059):	600.49	6.961	10.50	38.07

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB			
NASHYD (0194)			
ID= 1 DT= 5.0 min			
Area (ha)=	160.45	Curve Number (CN)=	74.0
Ia (mm)=	9.10	# of Linear Res.(N)=	3.00
U.H. Tp(hrs)=	2.14		

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		

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)= 2.864

PEAK FLOW (cms)= 3.160 (i)
 TIME TO PEAK (hrs)= 8.583
 RUNOFF VOLUME (mm)= 38.466
 TOTAL RAINFALL (mm)= 90.000
 RUNOFF COEFFICIENT = 0.427

(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	3.160	8.58	38.47
+ ID2= 2 (0059):	600.49	6.961	10.50	38.07
=====				
ID = 3 (0016):	760.94	9.720	9.50	38.16

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB	Area (ha)	Curve Number (CN)
NASHYD (0193)	48.62	66.0
ID= 1 DT= 5.0 min	Ia (mm)= 15.10	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)= 1.78	

Unit Hyd Qpeak (cms)= 1.043

PEAK FLOW (cms)= 0.755 (i)
 TIME TO PEAK (hrs)= 8.250
 RUNOFF VOLUME (mm)= 27.266

TOTAL RAINFALL (mm)= 90.000
 RUNOFF COEFFICIENT = 0.303

(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): 760.94  9.720  9.50  38.16
+ ID2= 2 ( 0193): 48.62  0.755  8.25  27.27
=====
ID = 3 ( 0060): 809.56  10.358  9.42  37.50
  
```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| CALIB          |
| NASHYD ( 0251) |
| ID= 1 DT= 5.0 min |
-----
| Area (ha)= 16.61 |
| Ia (mm)= 24.90  |
| U.H. Tp(hrs)= 0.50 |
| Curve Number (CN)= 51.0 |
| # of Linear Res.(N)= 3.00 |
  
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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 2.70 | 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
  
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-----
| 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)= 1.269

PEAK FLOW (cms)= 0.275 (i)
 TIME TO PEAK (hrs)= 6.750
 RUNOFF VOLUME (mm)= 13.708
 TOTAL RAINFALL (mm)= 90.000
 RUNOFF COEFFICIENT = 0.152

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

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-----
| CALIB          |
| STANDHYD ( 0250) |
| ID= 1 DT= 5.0 min |
-----
| Area (ha)= 0.93 |
| 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 |
  
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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 2.70 | 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 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

TOTALS
PEAK FLOW (cms)= 0.08 0.03 0.111 (iii)
TIME TO PEAK (hrs)= 6.17 6.33 6.17
RUNOFF VOLUME (mm)= 89.00 31.71 55.18
TOTAL RAINFALL (mm)= 90.00 90.00 90.00
RUNOFF COEFFICIENT = 0.99 0.35 0.61

***** 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	0.111	6.17	55.18
+ ID2= 2 (0251):	16.61	0.275	6.75	13.71
=====				
ID = 3 (0048):	17.54	0.315	6.67	15.91

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB				
NASHYD (0121)				
Area	(ha)=	2.40	Curve Number	(CN)= 54.0
Ia	(mm)=	23.50	# 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	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)= 0.183

PEAK FLOW (cms)= 0.046 (i)
 TIME TO PEAK (hrs)= 6.750
 RUNOFF VOLUME (mm)= 15.632
 TOTAL RAINFALL (mm)= 90.000
 RUNOFF COEFFICIENT = 0.174

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

 | CALIB |
 | STANDHYD (0120) | Area (ha)= 0.82
 | ID= 1 DT= 5.0 min | 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	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

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

TOTALS

PEAK FLOW (cms)=	0.07	0.02	0.089 (iii)
TIME TO PEAK (hrs)=	6.17	6.33	6.17
RUNOFF VOLUME (mm)=	89.00	24.67	50.39
TOTAL RAINFALL (mm)=	90.00	90.00	90.00
RUNOFF COEFFICIENT =	0.99	0.27	0.56

***** 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) |
| 1 + 2 = 3 |
-----
| AREA QPEAK TPEAK R.V. |
| (ha) (cms) (hrs) (mm) |
ID1= 1 ( 0120): 0.82 0.089 6.17 50.39
+ ID2= 2 ( 0121): 2.40 0.046 6.75 15.63
=====
ID = 3 ( 0009): 3.22 0.108 6.17 24.48

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| CALIB |
| NASHYD ( 0111) |
| ID= 1 DT= 5.0 min |
-----
| Area (ha)= 5.27 Curve Number (CN)= 55.0 |
| Ia (mm)= 22.60 # of Linear Res.(N)= 3.00 |
| U.H. Tp(hrs)= 0.39 |

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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 2.70 | 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

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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)= 0.516

PEAK FLOW (cms)= 0.124 (i)
TIME TO PEAK (hrs)= 6.500
RUNOFF VOLUME (mm)= 16.504
TOTAL RAINFALL (mm)= 90.000
RUNOFF COEFFICIENT = 0.183

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

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-----
| CALIB |
| STANDHYD ( 0110) |
| ID= 1 DT= 5.0 min |
-----
| Area (ha)= 1.01 |
| Total Imp(%)= 39.00 Dir. Conn.(%)= 39.00 |
-----
| IMPERVIOUS PERVIOUS (i) |
Surface Area (ha)= 0.39 0.62
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.

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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 2.70 | 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

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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)= 2.52 (ii) 17.93 (ii)
Unit Hyd. Tpeak (min)= 5.00 20.00
Unit Hyd. peak (cms)= 0.29 0.06

TOTALS
PEAK FLOW (cms)= 0.08 0.03 0.108 (iii)
TIME TO PEAK (hrs)= 6.17 6.33 6.17
RUNOFF VOLUME (mm)= 89.00 24.67 49.75
TOTAL RAINFALL (mm)= 90.00 90.00
RUNOFF COEFFICIENT = 0.99 0.27 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 ( 0006) |
| 1 + 2 = 3 |
-----
ID1= 1 ( 0110): 1.01 0.108 6.17 49.75
+ ID2= 2 ( 0111): 5.27 0.124 6.50 16.50
=====
ID = 3 ( 0006): 6.28 0.179 6.17 21.85

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NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| CALIB |
| NASHYD ( 0141) | Area (ha)= 7.22 Curve Number (CN)= 64.0
| ID= 1 DT= 5.0 min | Ia (mm)= 15.20 # of Linear Res.(N)= 3.00
-----
U.H. Tp(hrs)= 0.44

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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 2.70 | 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

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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)= 0.627

PEAK FLOW (cms)= 0.270 (i)
 TIME TO PEAK (hrs)= 6.500
 RUNOFF VOLUME (mm)= 25.701
 TOTAL RAINFALL (mm)= 90.000
 RUNOFF COEFFICIENT = 0.286

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

 | CALIB |
 | STANDHYD (0140) | Area (ha)= 0.76
 | ID= 1 DT= 5.0 min | Total Imp(%)= 38.00 Dir. Conn.(%)= 38.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.29	0.47
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

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)=	0.06	0.02	0.080 (iii)
TIME TO PEAK (hrs)=	6.17	6.33	6.17
RUNOFF VOLUME (mm)=	89.00	24.67	49.10
TOTAL RAINFALL (mm)=	90.00	90.00	90.00
RUNOFF COEFFICIENT =	0.99	0.27	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 ( 0015) |
| 1 + 2 = 3      |
-----
| AREA   QPEAK   TPEAK   R.V. |
| (ha)   (cms)   (hrs)   (mm) |
ID1= 1 ( 0140):  0.76  0.080  6.17  49.10
+ ID2= 2 ( 0141):  7.22  0.270  6.50  25.70
=====
ID = 3 ( 0015):  7.98  0.304  6.50  27.93

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NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| CALIB |
| NASHYD ( 0151) |
| ID= 1 DT= 5.0 min |
-----
| Area (ha)= 14.07 |
| Ia (mm)= 14.20 |
| U.H. Tp(hrs)= 0.17 |
| Curve Number (CN)= 66.0 |
| # of Linear Res.(N)= 3.00 |

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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 2.70 | 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

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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)= 3.161

PEAK FLOW (cms)= 0.960 (i)
TIME TO PEAK (hrs)= 6.167
RUNOFF VOLUME (mm)= 27.705
TOTAL RAINFALL (mm)= 90.000
RUNOFF COEFFICIENT = 0.308

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

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-----
| CALIB |
| STANDHYD ( 0150) |
| ID= 1 DT= 5.0 min |
-----
| Area (ha)= 1.35 |
| Total Imp(%)= 39.00 |
| Dir. Conn.(%)= 39.00 |
-----
| IMPERVIOUS |
| Surface Area (ha)= 0.53 |
| Dep. Storage (mm)= 1.00 |
| Average Slope (%)= 1.00 |
| Length (m)= 94.72 |
| Mannings n = 0.013 |
| PERVIOUS (i) |
| 0.82 |
| 5.00 |
| 2.00 |
| 40.00 |
| 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 2.70 | 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)= 2.74 (ii) 18.16 (ii)
Unit Hyd. Tpeak (min)= 5.00 20.00
Unit Hyd. peak (cms)= 0.28 0.06

TOTALS
PEAK FLOW (cms)= 0.11 0.04 0.144 (iii)
TIME TO PEAK (hrs)= 6.17 6.33 6.17
RUNOFF VOLUME (mm)= 89.00 24.67 49.75
TOTAL RAINFALL (mm)= 90.00 90.00 90.00
RUNOFF COEFFICIENT = 0.99 0.27 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 (0018)				
1 + 2 = 3				
	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0150):	1.35	0.144	6.17	49.75
+ ID2= 2 (0151):	14.07	0.960	6.17	27.70
=====				
ID = 3 (0018):	15.42	1.104	6.17	29.63

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB				
NASHYD (0261)				
Area (ha)=	35.85	Curve Number (CN)=	59.0	
Ia (mm)=	18.50	# of Linear Res.(N)=	3.00	
ID= 1 DT= 5.0 min				
U.H. Tp(hrs)= 1.23				

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
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)= 1.113

PEAK FLOW (cms)= 0.534 (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.

 | CALIB |
 | STANDHYD (0260) | Area (ha)= 3.40
 | ID= 1 DT= 5.0 min | Total Imp(%)= 40.00 Dir. Conn.(%)= 40.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	1.36	2.04
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

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)=	0.29	0.18	0.452 (iii)
TIME TO PEAK (hrs)=	6.17	6.33	6.17
RUNOFF VOLUME (mm)=	89.00	43.73	61.84
TOTAL RAINFALL (mm)=	90.00	90.00	90.00
RUNOFF COEFFICIENT =	0.99	0.49	0.69

***** 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      |
-----
| ID1= 1 ( 0260): | AREA   QPEAK   TPEAK   R.V.
| + ID2= 2 ( 0261): | (ha)   (cms)   (hrs)   (mm)
|=====
| ID = 3 ( 0051): | 39.25  0.587   7.50   24.18

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NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| CALIB          |
| NASHYD ( 0101) | Area (ha)= 7.90 Curve Number (CN)= 62.0
| ID= 1 DT= 5.0 min | Ia (mm)= 16.60 # of Linear Res.(N)= 3.00
|=====
|                   | U.H. Tp(hrs)= 0.34

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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 2.70 | 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

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| 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)= 0.887

PEAK FLOW (cms)= 0.310 (i)
TIME TO PEAK (hrs)= 6.417
RUNOFF VOLUME (mm)= 23.513
TOTAL RAINFALL (mm)= 90.000
RUNOFF COEFFICIENT = 0.261

(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(%)= 62.00 Dir. Conn.(%)= 62.00
|=====
| 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

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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 2.70 | 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

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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

TOTALS
PEAK FLOW (cms)= 0.12 0.02 0.141 (iii)
TIME TO PEAK (hrs)= 6.17 6.33 6.17
RUNOFF VOLUME (mm)= 89.00 34.39 68.24
TOTAL RAINFALL (mm)= 90.00 90.00 90.00
RUNOFF COEFFICIENT = 0.99 0.38 0.76

***** 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	0.141	6.17	68.24
+ ID2= 2 (0101):	7.90	0.310	6.42	23.51
=====				
ID = 3 (0003):	8.81	0.371	6.17	28.13

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB				
NASHYD (0231)				
Area	(ha)=	33.58	Curve Number	(CN)= 59.0
Ia	(mm)=	18.50	# of Linear Res.(N)=	3.00
ID= 1 DT= 5.0 min	U.H. Tp(hrs)=	0.29		

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)= 4.423

PEAK FLOW (cms)= 1.243 (i)
 TIME TO PEAK (hrs)= 6.333
 RUNOFF VOLUME (mm)= 20.604
 TOTAL RAINFALL (mm)= 90.000
 RUNOFF COEFFICIENT = 0.229

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

 | CALIB |
 | STANDHYD (0230) | Area (ha)= 3.07
 | ID= 1 DT= 5.0 min | Total Imp(%)= 58.00 Dir. Conn.(%)= 58.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	1.78	1.29
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	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

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

TOTALS
 PEAK FLOW (cms)= 0.38 0.07 0.443 (iii)
 TIME TO PEAK (hrs)= 6.17 6.33 6.17
 RUNOFF VOLUME (mm)= 89.00 30.02 64.22
 TOTAL RAINFALL (mm)= 90.00 90.00 90.00
 RUNOFF COEFFICIENT = 0.99 0.33 0.71

***** 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 0.443 6.17 64.22
+ ID2= 2 ( 0231): 33.58 1.243 6.33 20.60
=====
ID = 3 ( 0042): 36.65 1.437 6.17 24.26

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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)= 58.0
| ID= 1 DT= 5.0 min | Ia (mm)= 19.10 # of Linear Res.(N)= 3.00
| U.H. Tp(hrs)= 0.40 |
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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 2.70 | 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

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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)= 1.424

PEAK FLOW (cms)= 0.431 (i)
TIME TO PEAK (hrs)= 6.500
RUNOFF VOLUME (mm)= 19.724
TOTAL RAINFALL (mm)= 90.000
RUNOFF COEFFICIENT = 0.219

(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

```

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 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) |
1 + 2 = 3
ID1= 1 (0220): AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)
+ ID2= 2 (0221): 0.88 0.188 6.17 88.91
14.91 0.431 6.50 19.72
=====

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)= 0.94

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)= 5.334

PEAK FLOW (cms)= 4.969 (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.

 | CALIB |
 | STANDHYD (0160) | Area (ha)= 3.05
 | ID= 1 DT= 5.0 min | Total Imp(%)= 39.00 Dir. Conn.(%)= 39.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	1.19	1.86
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

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)= 0.25 0.08 0.323 (iii)
 TIME TO PEAK (hrs)= 6.17 6.33 6.17
 RUNOFF VOLUME (mm)= 89.00 24.67 49.76
 TOTAL RAINFALL (mm)= 90.00 90.00 90.00
 RUNOFF COEFFICIENT = 0.99 0.27 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 ( 0021) |
| 1 + 2 = 3      |
-----
| ID1= 1 ( 0160): | AREA   QPEAK   TPEAK   R.V.
|                   | (ha)   (cms)   (hrs)   (mm)
+ ID2= 2 ( 0161): | 3.05   0.323   6.17   49.76
+ ID2= 2 ( 0161): | 131.28 4.969   7.08   39.90
=====
| ID = 3 ( 0021): | 134.33 5.031   7.08   40.12
-----

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| CALIB          |
| NASHYD ( 0271) | Area (ha)= 26.76 Curve Number (CN)= 60.0
| ID= 1 DT= 5.0 min | Ia (mm)= 18.70 # of Linear Res.(N)= 3.00
|                   | U.H. Tp(hrs)= 0.22
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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 2.70 | 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 |
|-----|

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| 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)= 4.646

PEAK FLOW (cms)= 1.192 (i)
TIME TO PEAK (hrs)= 6.250
RUNOFF VOLUME (mm)= 21.099
TOTAL RAINFALL (mm)= 90.000
RUNOFF COEFFICIENT = 0.234

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

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-----
| CALIB          |
| STANDHYD ( 0270) | Area (ha)= 3.95
| ID= 1 DT= 5.0 min | Total Imp(%)= 55.00 Dir. Conn.(%)= 55.00
|                   |
|-----|
| IMPERVIOUS      | PERVIOUS (i)
| Surface Area    | (ha)= 2.17 1.78
| 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 2.70 | 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 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

TOTALS
PEAK FLOW (cms)= 0.46 0.08 0.536 (iii)
TIME TO PEAK (hrs)= 6.17 6.33 6.17
RUNOFF VOLUME (mm)= 89.00 26.12 60.70
TOTAL RAINFALL (mm)= 90.00 90.00 90.00
RUNOFF COEFFICIENT = 0.99 0.29 0.67

***** 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 |
-----
ID1= 1 ( 0270): 3.95 0.536 6.17 60.70
+ ID2= 2 ( 0271): 26.76 1.192 6.25 21.10
=====
ID = 3 ( 0054): 30.71 1.623 6.17 26.19

```

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 UUUUU A A LLLLL

000 TTTTT TTTTT 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\b
3ef68e7-c569-4fc0-a66c-6849e0db3171\s
Summary filename:
C:\Users\caeh076182\AppData\Local\Civica\XH5\18e334db-11e6-4c2c-9e9b-68ade393f174\b
3ef68e7-c569-4fc0-a66c-6849e0db3171\s

DATE: 12-14-2022

TIME: 03:30:13

USER:

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

COMMENTS: _____

 ** SIMULATION : 12SCS050 **

 | READ STORM | Filename: C:\Users\caeh076182\AppData
 | | ata\Local\Temp\
 | | 396a18b2-a47a-4edb-9128-76c3e2947350\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		

----- 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		

 | 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

Unit Hyd Qpeak (cms)= 1.073
 PEAK FLOW (cms)= 0.354 (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.

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-----
| CALIB |
| STANDHYD ( 0240) | Area (ha)= 0.88
| ID= 1 DT= 5.0 min | Total Imp(%)= 44.00 Dir. Conn.(%)= 44.00
-----
  
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	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

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	9.333	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)= 2.32 (ii) 16.31 (ii)
 Unit Hyd. Tpeak (min)= 5.00 20.00
 Unit Hyd. peak (cms)= 0.30 0.06

TOTALS

PEAK FLOW (cms)= 0.09 0.03 0.115 (iii)
 TIME TO PEAK (hrs)= 6.17 6.33 6.17
 RUNOFF VOLUME (mm)= 98.60 29.59 59.94
 TOTAL RAINFALL (mm)= 99.60 99.60 99.60
 RUNOFF COEFFICIENT = 0.99 0.30 0.60

***** 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 59.94
+ ID2= 2 ( 0241): 11.24 0.354 6.50 21.63
=====
ID = 3 ( 0045): 12.12 0.400 6.50 24.41
  
```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| CALIB |
| NASHYD ( 0281) | Area (ha)= 6.71 Curve Number (CN)= 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.

TOTAL RAINFALL (mm)= 99.600
 RUNOFF COEFFICIENT = 0.367

(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		
3.083	2.99	6.167	85.26	9.250	2.99		

Unit Hyd Qpeak (cms)= 0.641

PEAK FLOW (cms)= 0.394 (i)
 TIME TO PEAK (hrs)= 6.417
 RUNOFF VOLUME (mm)= 36.577

CALIB			
STANDHYD (0280)	Area (ha)=	0.90	
ID= 1 DT= 5.0 min	Total Imp(%)=	99.00	Dir. Conn.(%)= 99.00

	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	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		

2.250	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: 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 84.59
over (min) 5.00 5.00
Storage Coeff. (min)= 2.34 (ii) 3.80 (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 0.213 (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.

	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0280):	0.90	0.213	6.17	98.51
+ ID2= 2 (0281):	6.71	0.394	6.42	36.58
=====				
ID = 3 (0057):	7.61	0.493	6.17	43.90

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		

Unit Hyd Qpeak (cms)= 0.625
PEAK FLOW (cms)= 0.242 (i)
TIME TO PEAK (hrs)= 6.833
RUNOFF VOLUME (mm)= 20.816

TOTAL RAINFALL (mm)= 99.600
 RUNOFF COEFFICIENT = 0.209

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

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| CALIB |
| STANDHYD ( 0130) | Area (ha)= 1.57
| ID= 1 DT= 5.0 min | Total Imp(%)= 42.00 Dir. Conn.(%)= 42.00
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	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

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)= 2.76 (ii) 16.75 (ii)
 Unit Hyd. Tpeak (min)= 5.00 20.00
 Unit Hyd. peak (cms)= 0.28 0.06

TOTALS

PEAK FLOW (cms)= 0.16 0.05 0.199 (iii)
 TIME TO PEAK (hrs)= 6.17 6.33 6.17
 RUNOFF VOLUME (mm)= 98.60 29.59 58.57
 TOTAL RAINFALL (mm)= 99.60 99.60 99.60
 RUNOFF COEFFICIENT = 0.99 0.30 0.59

***** 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 ( 0012) |
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
|-----| (ha) (cms) (hrs) (mm)
ID1= 1 ( 0130): 1.57 0.199 6.17 58.57
+ ID2= 2 ( 0131): 10.63 0.242 6.83 20.82
=====
ID = 3 ( 0012): 12.20 0.302 6.67 25.67
  
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NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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| CALIB |
| NASHYD ( 0180) | Area (ha)= 2.46 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)= 1.36
  
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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

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		
3.083	2.99	6.167	85.26	9.250	2.99		

Unit Hyd Qpeak (cms)= 0.069

PEAK FLOW (cms)= 0.035 (i)
 TIME TO PEAK (hrs)= 7.833
 RUNOFF VOLUME (mm)= 21.628

CALIB			
STANDHYD (0181)	Area (ha)=	1.21	
ID= 1 DT= 5.0 min	Total Imp(%)=	40.00	Dir. Conn.(%)= 40.00

	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	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		

2.250	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: 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	2.99
0.583	2.99	3.667	3.98	6.750	9.56	9.83	2.99
0.667	2.99	3.750	3.98	6.833	9.56	9.92	2.99
0.750	1.39	3.833	3.98	6.917	9.56	10.00	2.99
0.833	1.39	3.917	3.98	7.000	9.56	10.08	2.99
0.917	1.39	4.000	3.98	7.083	9.56	10.17	2.99
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)= 2.56 (ii) 16.55 (ii)
Unit Hyd. Tpeak (min)= 5.00 20.00
Unit Hyd. peak (cms)= 0.29 0.06

TOTALS
0.149 (iii)

PEAK FLOW (cms)= 0.11 0.04
TIME TO PEAK (hrs)= 6.17 6.33 6.17
RUNOFF VOLUME (mm)= 98.60 29.59 57.19
TOTAL RAINFALL (mm)= 99.60 99.60
RUNOFF COEFFICIENT = 0.99 0.30 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.

	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0180):	2.46	0.035	7.83	21.63
+ ID2= 2 (0181):	1.21	0.149	6.17	57.19
ID = 3 (0027):	3.67	0.153	6.17	33.35

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)=	# of Linear Res.(N)=	3.00
	U.H. Tp	(hrs)=		0.91

Unit Hyd Qpeak (cms)= 1.359
PEAK FLOW (cms)= 0.780 (i)
TIME TO PEAK (hrs)= 7.167
RUNOFF VOLUME (mm)= 26.426

TOTAL RAINFALL (mm)= 99.600
 RUNOFF COEFFICIENT = 0.265

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

ADD HYD (0062)				
1 + 2 = 3				
	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0171):	32.39	0.780	7.17	26.43
+ ID2= 2 (0027):	3.67	0.153	6.17	33.35
=====				
ID = 3 (0062):	36.06	0.837	7.17	27.13

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB			
STANDHYD (0170)			
ID= 1 DT= 5.0 min	Area (ha)=	3.33	
	Total Imp(%)=	42.00	Dir. Conn.(%)= 42.00

	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	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	2.99
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)=	0.33	0.11
TIME TO PEAK (hrs)=	6.17	6.33
RUNOFF VOLUME (mm)=	98.60	29.59
TOTAL RAINFALL (mm)=	99.60	99.60
RUNOFF COEFFICIENT =	0.99	0.30
		0.59

***** 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 (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)

ID1= 1 (0170): 3.33 0.421 6.17 58.57
 + ID2= 2 (0062): 36.06 0.837 7.17 27.13
 =====
 ID = 3 (0024): 39.39 0.910 7.08 29.79

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 (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
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

Unit Hyd Qpeak (cms)= 2.549

PEAK FLOW (cms)= 2.551 (i)
 TIME TO PEAK (hrs)= 8.750
 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)= 1.71
 | ID= 1 DT= 5.0 min | Total Imp(%)= 72.00 Dir. Conn.(%)= 72.00

 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

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 35.47
over (min) 5.00 20.00
Storage Coeff. (min)= 2.83 (ii) 15.91 (ii)
Unit Hyd. Tpeak (min)= 5.00 20.00
Unit Hyd. peak (cms)= 0.28 0.07

PEAK FLOW (cms)= 0.29 0.03
TIME TO PEAK (hrs)= 6.17 6.33
RUNOFF VOLUME (mm)= 98.60 34.82 80.74
TOTAL RAINFALL (mm)= 99.60 99.60 99.60
RUNOFF COEFFICIENT = 0.99 0.35 0.81

TOTALS

***** 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.

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

AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)

ID1= 1 (0190): 1.71 0.320 6.17 80.74
+ ID2= 2 (0191): 146.82 2.551 8.75 35.16
=====

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| 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

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)= 4.392

PEAK FLOW (cms)= 4.706 (i)
 TIME TO PEAK (hrs)= 9.000
 RUNOFF VOLUME (mm)= 36.612
 TOTAL RAINFALL (mm)= 99.600
 RUNOFF COEFFICIENT = 0.368

(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 4.706   9.00   36.61
+ ID2= 2 ( 0030): 148.53 2.570   8.75   35.69
=====
ID = 3 ( 0061): 425.66 7.266   8.92   36.29
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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
-----
          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 ----
          TIME RAIN | TIME RAIN | TIME RAIN
          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
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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)= 5.114

PEAK FLOW (cms)= 7.612 (i)
 TIME TO PEAK (hrs)= 10.583
 RUNOFF VOLUME (mm)= 45.491
 TOTAL RAINFALL (mm)= 99.600
 RUNOFF COEFFICIENT = 0.457

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW 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)= 0.57
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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
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)= 2.046

PEAK FLOW (cms)= 1.645 (i)

TIME TO PEAK (hrs)= 6.667

RUNOFF VOLUME (mm)= 41.023

TOTAL RAINFALL (mm)= 99.600

RUNOFF COEFFICIENT = 0.412

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

CALIB	Area (ha)= 5.18
STANDHYD (0200)	Total Imp(%)= 39.00 Dir. Conn.(%)= 39.00
ID= 1 DT= 5.0 min	

	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	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		

2.583	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		

---- 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 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)= 0.48 0.29 0.739 (iii)
TIME TO PEAK (hrs)= 6.17 6.33 6.17
RUNOFF VOLUME (mm)= 98.60 46.28 66.68
TOTAL RAINFALL (mm)= 99.60 99.60 99.60
RUNOFF COEFFICIENT = 0.99 0.46 0.67

***** 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)	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
1 + 2 = 3				
ID1= 1 (0200):	5.18	0.739	6.17	66.68
+ ID2= 2 (0201):	30.53	1.645	6.67	41.02
=====				
ID = 3 (0033):	35.71	1.951	6.58	44.75

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB	Area (ha)	Curve Number (CN)
NASHYD (0196)	65.48	72.0
ID= 1 DT= 5.0 min	Ia (mm)= 10.20	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)= 0.68	

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

Unit Hyd Qpeak (cms)= 3.678

PEAK FLOW (cms)= 3.280 (i)
TIME TO PEAK (hrs)= 6.833
RUNOFF VOLUME (mm)= 42.472
TOTAL RAINFALL (mm)= 99.600
RUNOFF COEFFICIENT = 0.426

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

 | CALIB |
 | STANDHYD (0210) |
ID= 1 DT= 5.0 min

Area (ha)= 0.57
 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 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 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)= 0.05 0.03 0.083 (iii)
 TIME TO PEAK (hrs)= 6.08 6.25 6.17
 RUNOFF VOLUME (mm)= 98.60 42.88 64.59
 TOTAL RAINFALL (mm)= 99.60 99.60 99.60
 RUNOFF COEFFICIENT = 0.99 0.43 0.65

***** 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.

 | CALIB |
 | NASHYD (0211) |
ID= 1 DT= 5.0 min

Area (ha)= 2.03 Curve Number (CN)= 72.0
 Ia (mm)= 10.40 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 0.15

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)= 0.517

PEAK FLOW (cms)= 0.229 (i)
 TIME TO PEAK (hrs)= 6.167
 RUNOFF VOLUME (mm)= 42.083
 TOTAL RAINFALL (mm)= 99.600
 RUNOFF COEFFICIENT = 0.423

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

ADD HYD (0036)				
1 + 2 = 3				
	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0210):	0.57	0.083	6.17	64.59
+ ID2= 2 (0211):	2.03	0.229	6.17	42.08
=====				
ID = 3 (0036):	2.60	0.312	6.17	47.02

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 (0195):	496.70	7.612	10.58	45.49
+ ID2= 2 (0196):	65.48	3.280	6.83	42.47
=====				
ID = 3 (0059):	562.18	8.024	10.42	45.14

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):	562.18	8.024	10.42	45.14
+ ID2= 2 (0033):	35.71	1.951	6.58	44.75
=====				
ID = 1 (0059):	597.89	8.241	10.25	45.12

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):	597.89	8.241	10.25	45.12
+ ID2= 2 (0036):	2.60	0.312	6.17	47.02
=====				
ID = 3 (0059):	600.49	8.256	10.33	45.12

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB				
NASHDY (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)= 2.14				

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)= 2.864

PEAK FLOW (cms)= 3.762 (i)
 TIME TO PEAK (hrs)= 8.583
 RUNOFF VOLUME (mm)= 45.566
 TOTAL RAINFALL (mm)= 99.600
 RUNOFF COEFFICIENT = 0.457

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

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-----
| ADD HYD ( 0016) |
| 1 + 2 = 3 |
-----
                AREA      QPEAK      TPEAK      R.V.
                (ha)      (cms)      (hrs)      (mm)
ID1= 1 ( 0194): 160.45  3.762      8.58      45.57
+ ID2= 2 ( 0059): 600.49  8.256     10.33     45.12
=====
ID = 3 ( 0016):  760.94  11.543     9.50     45.22
  
```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| CALIB |
| NASHYD ( 0193) | Area (ha)= 48.62 Curve Number (CN)= 66.0
| ID= 1 DT= 5.0 min | Ia (mm)= 15.10 # of Linear Res.(N)= 3.00
-----
                U.H. Tp(hrs)= 1.78
  
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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  2.99 | 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)= 1.043

PEAK FLOW (cms)= 0.927 (i)
 TIME TO PEAK (hrs)= 8.250
 RUNOFF VOLUME (mm)= 33.157
 TOTAL RAINFALL (mm)= 99.600
 RUNOFF COEFFICIENT = 0.333

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

ADD HYD (0060)	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
1 + 2 = 3				
ID1= 1 (0016):	760.94	11.543	9.50	45.22
+ ID2= 2 (0193):	48.62	0.927	8.25	33.16
ID = 3 (0060):	809.56	12.324	9.33	44.49

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)= 24.90	# 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 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)= 1.269

PEAK FLOW (cms)= 0.360 (i)
 TIME TO PEAK (hrs)= 6.750
 RUNOFF VOLUME (mm)= 17.506
 TOTAL RAINFALL (mm)= 99.600
 RUNOFF COEFFICIENT = 0.176

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

CALIB	Area (ha)	Dir. Conn.(%)
STANDHYD (0250)	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

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

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

TOTALS
 PEAK FLOW (cms)= 0.09 0.04 0.126 (iii)
 TIME TO PEAK (hrs)= 6.17 6.33 6.17
 RUNOFF VOLUME (mm)= 98.60 37.68 62.65
 TOTAL RAINFALL (mm)= 99.60 99.60 99.60
 RUNOFF COEFFICIENT = 0.99 0.38 0.63

---- 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		

***** 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)
ID1= 1 (0250):	0.93	0.126	6.17	62.65
+ ID2= 2 (0251):	16.61	0.360	6.75	17.51
=====				
ID = 3 (0048):	17.54	0.409	6.67	19.90

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

	Area	(ha)=	Curve Number	(CN)=
CALIB				
NASHYD (0121)	Area	(ha)= 2.40	Curve Number	(CN)= 54.0
ID= 1 DT= 5.0 min	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	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)= 0.183

PEAK FLOW (cms)= 0.060 (i)
 TIME TO PEAK (hrs)= 6.667
 RUNOFF VOLUME (mm)= 19.800
 TOTAL RAINFALL (mm)= 99.600
 RUNOFF COEFFICIENT = 0.199

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

 | CALIB |
 | STANDHYD (0120) | Area (ha)= 0.82
 | ID= 1 DT= 5.0 min | 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	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)= 2.27 (ii) 16.26 (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 0.101 (iii)
 TIME TO PEAK (hrs)= 6.08 6.33 6.17
 RUNOFF VOLUME (mm)= 98.60 29.59 57.18
 TOTAL RAINFALL (mm)= 99.60 99.60 99.60
 RUNOFF COEFFICIENT = 0.99 0.30 0.57

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		

***** 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)
1 + 2 = 3				
ID1= 1 (0120):	0.82	0.101	6.17	57.18
+ ID2= 2 (0121):	2.40	0.060	6.67	19.80
=====				
ID = 3 (0009):	3.22	0.128	6.17	29.32

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB	Area (ha)	Curve Number (CN)
NASHYD (0111)	5.27	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 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

Unit Hyd Qpeak (cms)= 0.516

PEAK FLOW (cms)= 0.161 (i)
 TIME TO PEAK (hrs)= 6.500
 RUNOFF VOLUME (mm)= 20.814
 TOTAL RAINFALL (mm)= 99.600
 RUNOFF COEFFICIENT = 0.209

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

CALIB	Area (ha)	Dir. Conn.(%)
STANDHYD (0110)	1.01	
ID= 1 DT= 5.0 min	Total Imp(%)= 39.00	Dir. Conn.(%)= 39.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.39	0.62
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	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)=	0.09	0.03	0.123 (iii)
TIME TO PEAK (hrs)=	6.17	6.33	6.17
RUNOFF VOLUME (mm)=	98.60	29.59	56.50
TOTAL RAINFALL (mm)=	99.60	99.60	99.60
RUNOFF COEFFICIENT =	0.99	0.30	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 (0006)	AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0110):	1.01	0.123	6.17	56.50
+ ID2= 2 (0111):	5.27	0.161	6.50	20.81
=====				
ID = 3 (0006):	6.28	0.221	6.17	26.55

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB	Area	(ha)=	7.22	Curve Number (CN)=	64.0
NASHYD (0141)	Ia	(mm)=	15.20	# of Linear Res.(N)=	3.00
ID= 1 DT= 5.0 min	U.H. Tp	(hrs)=	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	2.99	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)= 0.627

PEAK FLOW (cms)= 0.335 (i)
 TIME TO PEAK (hrs)= 6.500
 RUNOFF VOLUME (mm)= 31.340
 TOTAL RAINFALL (mm)= 99.600
 RUNOFF COEFFICIENT = 0.315

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

 | CALIB |
 | STANDHYD (0140) | Area (ha)= 0.76
 | ID= 1 DT= 5.0 min | Total Imp(%)= 38.00 Dir. Conn.(%)= 38.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.29	0.47
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	2.99	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)= 2.22 (ii) 16.22 (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)= 6.08 6.33 6.17
 RUNOFF VOLUME (mm)= 98.60 29.59 55.80
 TOTAL RAINFALL (mm)= 99.60 99.60 99.60
 RUNOFF COEFFICIENT = 0.99 0.30 0.56

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		

***** 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 (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
1 + 2 = 3				
ID1= 1 (0140):	0.76	0.091	6.17	55.80
+ ID2= 2 (0141):	7.22	0.335	6.50	31.34
ID = 3 (0015):	7.98	0.374	6.50	33.67

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB	Area (ha)	Curve Number (CN)
NASHYD (0151)	14.07	66.0
ID= 1 DT= 5.0 min	Ia (mm)= 14.20	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)= 0.17	

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

Unit Hyd Qpeak (cms)= 3.161

PEAK FLOW (cms)= 1.179 (i)
 TIME TO PEAK (hrs)= 6.167
 RUNOFF VOLUME (mm)= 33.605
 TOTAL RAINFALL (mm)= 99.600
 RUNOFF COEFFICIENT = 0.337

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

CALIB	Area (ha)	Dir. Conn.(%)
STANDHYD (0150)	1.35	
ID= 1 DT= 5.0 min	Total Imp(%)= 39.00	Dir. Conn.(%)= 39.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.53	0.82
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)=	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)=	0.12	0.05	0.164 (iii)
TIME TO PEAK (hrs)=	6.17	6.33	6.17
RUNOFF VOLUME (mm)=	98.60	29.59	56.50
TOTAL RAINFALL (mm)=	99.60	99.60	99.60
RUNOFF COEFFICIENT =	0.99	0.30	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	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		

***** 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.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0150):	1.35	0.164	6.17	56.50
+ ID2= 2 (0151):	14.07	1.179	6.17	33.61
=====				
ID = 3 (0018):	15.42	1.343	6.17	35.61

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)=	1.23	

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	2.99	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)= 1.113

PEAK FLOW (cms)= 0.672 (i)
 TIME TO PEAK (hrs)= 7.583
 RUNOFF VOLUME (mm)= 25.532
 TOTAL RAINFALL (mm)= 99.600
 RUNOFF COEFFICIENT = 0.256

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

 | CALIB |
 | STANDHYD (0260) | Area (ha)= 3.40
 | ID= 1 DT= 5.0 min | Total Imp(%)= 40.00 Dir. Conn.(%)= 40.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	1.36	2.04
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	2.99	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 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)= 0.32 0.23 0.538 (iii)
 TIME TO PEAK (hrs)= 6.17 6.25 6.17
 RUNOFF VOLUME (mm)= 98.60 51.19 70.15
 TOTAL RAINFALL (mm)= 99.60 99.60 99.60
 RUNOFF COEFFICIENT = 0.99 0.51 0.70

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		

***** 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	0.538	6.17	70.15
+ ID2= 2 (0261):	35.85	0.672	7.58	25.53
=====				
ID = 3 (0051):	39.25	0.730	7.50	29.40

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB	Area	(ha)=	Curve Number	(CN)=
NASHYD (0101)	7.90		62.0	
ID= 1 DT= 5.0 min	16.60		# of Linear Res.(N)=	3.00
	U.H. Tp(hrs)=	0.34		

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

Unit Hyd Qpeak (cms)= 0.887

PEAK FLOW (cms)= 0.387 (i)
 TIME TO PEAK (hrs)= 6.417
 RUNOFF VOLUME (mm)= 28.856
 TOTAL RAINFALL (mm)= 99.600
 RUNOFF COEFFICIENT = 0.290

(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

CALIB	Area	(ha)=	Dir. Conn.(%)=
STANDHYD (0100)	0.91		
ID= 1 DT= 5.0 min	62.00		62.00

	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	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	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

TOTALS

PEAK FLOW (cms)=	0.13	0.03	0.162 (iii)
TIME TO PEAK (hrs)=	6.17	6.25	6.17
RUNOFF VOLUME (mm)=	98.60	40.73	76.60
TOTAL RAINFALL (mm)=	99.60	99.60	99.60
RUNOFF COEFFICIENT =	0.99	0.41	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)	AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3	(ha)	(cms)	(hrs)	(mm)
-----	ID1= 1 (0100):	0.91	0.162	6.17
	+ ID2= 2 (0101):	7.90	0.387	6.42
	-----	ID = 3 (0003):	8.81	0.457
			6.17	33.79

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB	Area (ha)=	33.58	Curve Number (CN)=	59.0
NASHYD (0231)	Ia (mm)=	18.50	# of Linear Res.(N)=	3.00
ID= 1 DT= 5.0 min	U.H. Tp(hrs)=	0.29		

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)= 4.423

PEAK FLOW (cms)= 1.575 (i)
 TIME TO PEAK (hrs)= 6.333
 RUNOFF VOLUME (mm)= 25.520
 TOTAL RAINFALL (mm)= 99.600
 RUNOFF COEFFICIENT = 0.256

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

 | CALIB |
 | STANDHYD (0230) | Area (ha)= 3.07
 | ID= 1 DT= 5.0 min | Total Imp(%)= 58.00 Dir. Conn.(%)= 58.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	1.78	1.29
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	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 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)= 0.42 0.09 0.499 (iii)
 TIME TO PEAK (hrs)= 6.17 6.33 6.17
 RUNOFF VOLUME (mm)= 98.60 35.76 72.20
 TOTAL RAINFALL (mm)= 99.60 99.60 99.60
 RUNOFF COEFFICIENT = 0.99 0.36 0.72

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		

***** 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.

ADD HYD (0042)				
1 + 2 = 3				
	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0230):	3.07	0.499	6.17	72.20
+ ID2= 2 (0231):	33.58	1.575	6.33	25.52
=====				
ID = 3 (0042):	36.65	1.788	6.17	29.43

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB			
NASHYD (0221)			
ID= 1 DT= 5.0 min	Area (ha)=	Curve Number (CN)=	U.H. Tp(hrs)=
	14.91	58.0	0.40
	19.10	# of Linear Res.(N)= 3.00	

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

Unit Hyd Qpeak (cms)= 1.424

PEAK FLOW (cms)= 0.548 (i)
 TIME TO PEAK (hrs)= 6.500
 RUNOFF VOLUME (mm)= 24.503
 TOTAL RAINFALL (mm)= 99.600
 RUNOFF COEFFICIENT = 0.246

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

CALIB			
STANDHYD (0220)			
ID= 1 DT= 5.0 min	Area (ha)=	Total Imp(%)=	Dir. Conn.(%)=
	0.88	99.00	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	2.99	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	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	0.548	6.50	24.50
=====				
ID = 3 (0039):	15.79	0.601	6.50	28.63

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)=	0.94	

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)= 5.334

PEAK FLOW (cms)= 5.909 (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.

 | CALIB |
 | STANDHYD (0160) | Area (ha)= 3.05
 | ID= 1 DT= 5.0 min | Total Imp(%)= 39.00 Dir. Conn.(%)= 39.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	1.19	1.86
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	2.99	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)= 3.37 (ii) 17.36 (ii)
Unit Hyd. Tpeak (min)= 5.00 20.00
Unit Hyd. peak (cms)= 0.26 0.06

TOTALS

PEAK FLOW (cms)= 0.28 0.10 0.369 (iii)
TIME TO PEAK (hrs)= 6.17 6.33 6.17
RUNOFF VOLUME (mm)= 98.60 29.59 56.50
TOTAL RAINFALL (mm)= 99.60 99.60 99.60
RUNOFF COEFFICIENT = 0.99 0.30 0.57

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		

***** 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	0.369	6.17	56.50
+ ID2= 2 (0161):	131.28	5.909	7.08	47.14
=====				
ID = 3 (0021):	134.33	5.979	7.08	47.35

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB	Area	(ha)=	Curve Number	(CN)=
NASHYD (0271)	26.76		60.0	
ID= 1 DT= 5.0 min	18.70		# of Linear Res.(N)=	3.00
	U.H. Tp(hrs)=	0.22		

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

Unit Hyd Qpeak (cms)= 4.646

PEAK FLOW (cms)= 1.506 (i)
TIME TO PEAK (hrs)= 6.250
RUNOFF VOLUME (mm)= 26.120
TOTAL RAINFALL (mm)= 99.600
RUNOFF COEFFICIENT = 0.262

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

CALIB	Area	(ha)=	Dir. Conn.(%)=
STANDHYD (0270)	3.95		
ID= 1 DT= 5.0 min	Total Imp(%)=	55.00	Dir. Conn.(%)= 55.00

IMPERVIOUS PERVIOUS (i)
 Surface Area (ha)= 2.17 1.78
 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

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

TOTALS
 PEAK FLOW (cms)= 0.51 0.10 0.603 (iii)
 TIME TO PEAK (hrs)= 6.17 6.33 6.17
 RUNOFF VOLUME (mm)= 98.60 31.27 68.30
 TOTAL RAINFALL (mm)= 99.60 99.60 99.60
 RUNOFF COEFFICIENT = 0.99 0.31 0.69

---- 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		

***** 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	0.603	6.17	68.30
+ ID2= 2 (0271):	26.76	1.506	6.25	26.12
=====				
ID = 3 (0054):	30.71	1.995	6.17	31.55

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 AAAAA L
V V I SS U U A A L
VV I SSSSS UUUUU 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\V02\voin.dat

Output filename:

C:\Users\caeh076182\AppData\Local\Civica\XH5\18e334db-11e6-4c2c-9e9b-68ade393f174\13a1591-3af4-4d51-9ecd-7997d6d11be2\s

Summary filename:

C:\Users\caeh076182\AppData\Local\Civica\XH5\18e334db-11e6-4c2c-9e9b-68ade393f174\13a1591-3af4-4d51-9ecd-7997d6d11be2\s

DATE: 12-14-2022

TIME: 03:30:12

USER:

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

COMMENTS: _____

 ** SIMULATION : 12SCS100 **

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| READ STORM | Filename: C:\Users\caeh076182\AppData
|             | ata\Local\Temp\
|             | 396a18b2-a47a-4edb-9128-76c3e2947350\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
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		

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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
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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		

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)= 1.073

PEAK FLOW (cms)= 0.431 (i)
 TIME TO PEAK (hrs)= 6.500
 RUNOFF VOLUME (mm)= 25.793
 TOTAL RAINFALL (mm)= 108.000
 RUNOFF COEFFICIENT = 0.239

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

CALIB	
STANDHYD (0240)	Area (ha)= 0.88
ID= 1 DT= 5.0 min	Total Imp(%)= 44.00 Dir. Conn.(%)= 44.00

	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

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

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)=	0.10	0.03	0.128 (iii)
TIME TO PEAK (hrs)=	6.08	6.33	6.17
RUNOFF VOLUME (mm)=	107.00	34.13	66.18
TOTAL RAINFALL (mm)=	108.00	108.00	108.00
RUNOFF COEFFICIENT =	0.99	0.32	0.61

***** 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      |
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	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0240):	0.88	0.128	6.17	66.18
+ ID2= 2 (0241):	11.24	0.431	6.50	25.79
=====				
ID = 3 (0045):	12.12	0.482	6.50	28.73

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		

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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| CALIB          |
| NASHYD ( 0281) |
| ID= 1 DT= 5.0 min |
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Area (ha)=	6.71	Curve Number (CN)=	68.0
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.

Unit Hyd Qpeak (cms)= 0.641

PEAK FLOW (cms)=	0.459 (i)
TIME TO PEAK (hrs)=	6.417
RUNOFF VOLUME (mm)=	42.270
TOTAL RAINFALL (mm)=	108.000
RUNOFF COEFFICIENT	= 0.391

(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	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

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| CALIB          |
| STANDHYD ( 0280) |
| ID= 1 DT= 5.0 min |
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Area (ha)=	0.90
Total Imp(%)=	99.00
Dir. Conn.(%)=	99.00

	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	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 91.83
over (min) 5.00 5.00
Storage Coeff. (min)= 2.26 (ii) 3.68 (ii)
Unit Hyd. Tpeak (min)= 5.00 5.00
Unit Hyd. peak (cms)= 0.30 0.25

PEAK FLOW (cms)= 0.23 0.00
TIME TO PEAK (hrs)= 6.08 6.17
RUNOFF VOLUME (mm)= 107.00 98.06
TOTAL RAINFALL (mm)= 108.00 108.00
RUNOFF COEFFICIENT = 0.99 0.91

TOTALS
0.231 (iii)
6.17
106.91
108.00
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.

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| ADD HYD ( 0057) |
| 1 + 2 = 3 |
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	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0280):	0.90	0.231	6.17	106.91
+ ID2= 2 (0281):	6.71	0.459	6.42	42.27
=====				
ID = 3 (0057):	7.61	0.562	6.17	49.91

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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| CALIB |
| NASHYD ( 0131) | Area (ha)= 10.63 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)= 0.65
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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	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